

**VOLUME-I**



**BRIHANMUMBAI MUNICIPAL CORPORATION**

**e-TENDER**

**(Percentage Rate)**

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b><u>Name of Work:</u></b> | <p><b>Lumpsum tender (Turnkey) for construction of Residential Tenements (having size of 37.80 sqm &amp; 55.55 sqm each) on plot known as ‘600 tenement plot’ bearing CTS No. 1(pt) &amp; CTS No. 3 (pt) (Sub plot D having area 8746.90 sqm) at Village Deonar, M/E Ward.</b></p> <p>To be displayed by 11.00 hours on    /    /2023 at the e-Procurement System of Government of Maharashtra (Mahatenders) (<a href="http://mahatenders.gov.in">http://mahatenders.gov.in</a>)</p> <div><p>Office of:- Dy.C.E. (B.C.) E.S.<br/>6<sup>th</sup> floor, Transport Garage Bldg.,<br/>Pantnagar, Ghatkopar (East)<br/>Mumbai- 400075</p></div> <p><b>Prepared by: PMC (Project Management Consultants)<br/>M/s. Master &amp; Associates<br/>34/38 Hamam House<br/>Ambalal Doshi Marg<br/>Fort, Mumbai- 400001<br/>Email:- udaymaster@gmail.com</b></p> |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

----- sd-----

**Dy. C.E. (B.C.) ES**

----- sd-----

**City Engineer**

----- sd-----

**Director (E.S.&P.)**

----- sd-----

**A.E.(B.C.) ES**

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**A.E.(M&E) B.C. ES**

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**E.E.(B.C.)ES**

-----sd-----

**S.E. (B.C.) ES**

-----sd-----

**S.E.(B.C.) ES**

-----sd-----

**S.E. (M&E)B.C. ES**

Dy. City Engineer (Building Construction Eastern Suburbs), 6<sup>th</sup> Floor, Pant Nagar Garage Building, BEST colony, Pant Nagar, Ghatkopar (East), Mumbai- 400 075



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**SECTION - 1**  
**E-TENDER NOTICE**

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**BRIHANMUMBAI MUNICIPAL CORPORATION MUMBAI**

**Deptt. :Dy. City Engineer (Building Construction) Eastern Suburb**

**DYC.E/BC/ ----- /ES ,Dtd.-----**

**E-TENDER NOTICE**

|                  |                                                                                                                                                                                                                                                                             |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Subject :</b> | <b>Lumpsum tender (Turnkey) for construction of Residential Tenements (having size of 37.80 sqm &amp; 55.55 sqm each) on plot known as ‘600 tenement plot’ bearing CTS No. 1(pt) &amp; CTS No. 3 (pt) (Sub plot D having area 8746.90 sqm) at Village Deonar, M/E Ward.</b> |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

The Brihanmumbai Municipal Corporation Mumbai (BMC) invites e-tender to appoint Contractor for the aforementioned work from Private sector organizations, contractors of repute, multidisciplinary engineering organizations i.e. eminent firm, Proprietary/Partnership Firms/ Private Limited Companies/ Public Limited Companies/ Companies registered under the Indian companies’ act 2013, the contractors registered with the Brihanmumbai Municipal Corporation Mumbai, (BMC) **in Class IA as per new registration and** from the contractors/firms equivalent and superior classes registered in Central or State Government/Semi Govt. Organization/Central or State PublicSector Undertakings, *excluding those who are blacklisted, demoted and debarred in BMC,P.W.D, other Government/ Semi Govt. organizations* in India/abroad and having their office in Mumbai will be allowed subject to condition that, the contractors who are not registered with BMC will have to apply for registering their firm within three months time period from the award of contract, otherwise their Bid Security i.e. E.M.D (Earnest Money Deposit) will be forfeited/recovered and a penalty of 0.1 % of contract or Rs. 10,000/- whichever is more will be recovered/deducted from the contractors payment /Bill by the executing department.

**Joint Venture or Consortium will be allowed for this tender**

**Bidding Process will comprise of THREE stages. Bidders attention is requested to the new circular regarding Goods and Service Tax (GST)Refer New Circular no. CA/F/PROJECTS/28 Dated 28.03.2023. Revised Circular is attached with this Tender.**

The application form can be downloaded from e-Procurement System of Government of Maharashtra (Mahatenders) (<http://mahatenders.gov.in>) on payment of Rs.25000 (Scrutiny Fees)+ Applicable GST. The applicants not registered with BMC are mandated to get registered (Vendor Registration) with BMC for e-tendering process & obtain login credentials to participate in the online bidding process.

| Name and location of work                                                                                                                                                                                                                                                   | Contract period                                                                                   | Estimated Cost of Project           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------|
| <b>Lumpsum tender (Turnkey) for construction of Residential Tenements (having size of 37.80 sqm &amp; 55.55 sqm each) on plot known as '600 tenement plot' bearing CTS No. 1(pt) &amp; CTS No. 3 (pt) (Sub plot D having area 8746.90 sqm) at Village Deonar, M/E Ward.</b> | 6 months for Approvals including transfer of ownership of land + 24 Months (inclusive of monsoon) | Rs. 412,64,46,864/- (Excluding GST) |
| <b>Bid Number</b>                                                                                                                                                                                                                                                           |                                                                                                   |                                     |

In terms of the 3 stage system of e-tendering, a Bidder will be required to deposit, along with its Bid, an Earnest Money Deposit of **Rs. 4,12,64,500/- (Rs. Four crore Twelve lakhs Sixty-Four Thousand and Five Hundred only)** (the "EMD"), refundable in accordance to the relevant clause of bid document, from the Bid Due Date, except in the case of the selected Bidder whose Bid Security/EMD shall be retained. The Bidders will have to provide Earnest Money Deposit through the payment gateways while submitting the bids. The Bid shall be summarily rejected if it is not accompanied by the Earnest Money Deposit. The e-tender is available on e-Procurement System of Government of Maharashtra (Mahatenders) (<http://mahatenders.gov.in>) as mentioned in the Header Data of the tender. EMD Amount maybe paid through online bank gateway. **Bidder will deposit 90% EMD amount through online payment gateway of [www.mahatender.gov.in](http://www.mahatender.gov.in) while submitting bid and the 10% of EMD amount shall deposit through SAP system of BMC or through CFC or through D.D.**

As per THREE Packet systems, the document for Packet A, B and C is to be uploaded by the bidder in vendors' document online in Packet A, B and C. Packet A, B & C shall be opened on dates as mentioned in header data. All the responsive and eligible bidders if they so wish can be present at the time of opening of bids, in the office of Tender inviting authority. The Packet C shall be opened if bids submission in Packet A & B satisfies/includes all the requirements and same are found acceptable to the Authority.

The Municipal Commissioner reserves the right to reject all or any of the e-tender(s) without assigning any reasons at any stage.

The dates and time for submission and opening the bids are as shown in the Header Data. If there are any changes in the dates the same will be displayed on the e-Procurement System of Government of Maharashtra (Mahatenders) (<http://mahatenders.gov.in>) The Applicants interested for the above referred works may contact the Dy. City Eng. (B.C.) E.S at the following address on any working day during office hours.

Office of: Dy. City Engr.(B.C)E.S., BMC 6<sup>th</sup>Floor, Pant Nagar Garage Building, BEST colony, Pant Nagar, Ghatkopar(East), Mumbai- 400 075,

The applicants may wish to visit the site under reference located at **open plot known as "600 Tenements" Plot Bearing CTS No.1 (pt) and CTS No. 3 (Pt) at Deonar, M/E Ward Mumbai** and can collect the information of the present status from the department who have invited the bids.

The BMC reserves the rights to accept any of the application or reject any or all the application received for above works, without assigning any reasons thereof. The information regarding above subject matter is available on e-Procurement System of Government of Maharashtra (Mahatenders) (<http://mahatenders.gov.in>)

**Dy.City.Eng(B.C.)E.S.**

### **HEADER DATA**

|                                                                                                |                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tender Document No (Bid No.)                                                                   |                                                                                                                                                                                                                                                                                                                                                          |
| Name of Organization                                                                           | Brihanmumbai Municipal Corporation                                                                                                                                                                                                                                                                                                                       |
| Subject                                                                                        | <b>Lumpsum tender (Turnkey) for construction of Residential Tenements (having size of 37.80 sqm &amp; 55.55 sqm each) on plot known as '600 tenement plot' bearing CTS No. 1(pt) &amp; CTS No. 3 (pt) (Sub plot D having area 8746.90 sqm) at Village Deonar, M/E Ward.</b>                                                                              |
| Scrutiny fee                                                                                   | <b>Rs.25000+ Applicable GST</b>                                                                                                                                                                                                                                                                                                                          |
| Cost of E-Tender(Estimated Cost)<br>Nos of Tenements                                           | Rs. 412,64,46,864/- (Excluding GST)<br>308 Tenements of 37.80 SQM + 416 Tenements of 55.55 SQM totalling 724 Tenements                                                                                                                                                                                                                                   |
| Bid Security Deposit/ EMD                                                                      | <b>Rs. 4,12,64,500/-</b>                                                                                                                                                                                                                                                                                                                                 |
| Date of issue and sale of tender                                                               | from 11:00Hrs                                                                                                                                                                                                                                                                                                                                            |
| Last date & time for <b><i>Sale of Tender</i></b>                                              | upto 14:00Hrs                                                                                                                                                                                                                                                                                                                                            |
| Submission of Packet A, B & Packet C(Online)&<br><b><i>Receipt of Bid Security Deposit</i></b> | upto 16:00Hrs                                                                                                                                                                                                                                                                                                                                            |
| Pre Bid Meeting                                                                                | At 16:00 Hrs                                                                                                                                                                                                                                                                                                                                             |
| Opening of Packet A                                                                            | after 16:01Hrs.                                                                                                                                                                                                                                                                                                                                          |
| Opening of Packet B                                                                            | after 16:10Hrs.                                                                                                                                                                                                                                                                                                                                          |
| Opening of Packet C                                                                            | after 15:00Hrs.                                                                                                                                                                                                                                                                                                                                          |
| Address for communication                                                                      | Office of: Dy. City Engr.(B.C)E.S, BMC, 6 <sup>th</sup> Floor, Pantnagar Garage Building, BEST colony, Pantnagar, Ghatkopar (East), Mumbai- 400 075. Email id <a href="mailto:ee02dyce.bces@mcgm.gov.in">ee02dyce.bces@mcgm.gov.in</a><br><a href="mailto:ae05dyce.bces@mcgm.gov.in">ae05dyce.bces@mcgm.gov.in</a><br>Contact No- 9769059996, 9920915345 |
| Venue for opening of bid                                                                       | In the office of Dy. City. Eng. (BC) ES Through computerized system                                                                                                                                                                                                                                                                                      |

**This tender document is not transferable.**

The BMC reserves the rights to accept any of the application or reject any or all the application received for above subject without assigning any reason thereof.

**Dy.City.Eng(B.C.)E.S.**



**SECTION 2**  
**ELIGIBILITY CRITERIA**

## 1. For Original and New construction works

### Eligibility criteria:

#### 1.1. Technical Capacity (Project Experience):

The tenderer(s) in their own name should have satisfactorily executed the work of similar nature BMC /Semi Govt. /Govt. & Public Sector Organizations during **last seven (7) years** ending last day of month previous to the one in which bids are invited as a prime Contractor (or as a nominated sub-Contractor, where the subcontract had involved similar nature of work as described in the scope of works in this bid document, provided further that all other qualification criteria are satisfied)

- a) **Three similar completed works or currently executing three similar works of similar nature admeasuring not less than 25720 m2 of built up area 25% of tender tenement construction area in multistory buildings in each work.\***

**OR**

- b) **Two similar completed works or currently executing two similar works of similar nature admeasuring not less than 30860 m2 of built up area 30% of tender tenement construction area in multistory buildings in each work.\***

**OR**

- c) **One similar completed works or currently executing one similar work of similar nature admeasuring not less than 41150 m2 of built up area not less than 40% of tenement construction area in multistory buildings in each work.\***

The bidder shall submit in Packet B the details of Construction Methodology/Technology which will be proposed for the said work.

The bidder shall submit an undertaking in Packet B to obtain all approvals/demarcation/NOC/Permits etc required for implementing the project from government/Semi government/ Service Provider/ BMC etc. including transfer of ownership of land in timely manner. The cost of the same shall be included in the tender bid by the bidder. Technical Documentation for all approvals will be prepared by Bidder in conjunction with the PMC and submitted after BMC approval at each state. All statutory payments to be borne by the bidder on behalf of BMC. Built up area will be considered Floor plate/Foot print of the building for the purpose of calculating eligibility.

Similar experience is spelt in definite sense, such as-

#### ***For-Building Construction***

| Nos of stories                                                                                                              | Experience of construction                                                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Up to 4 stories                                                                                                             | No special experience                                                                                                                           |
| From 5 to 10 stories                                                                                                        | Minimum 5 stories and 15m building height                                                                                                       |
| From 11 to 15 stories                                                                                                       | Minimum 8 stories and 24m building Height                                                                                                       |
| From 15+ stories                                                                                                            | (a)Minimum 10 stories and 30m building Height<br>(b) Out of the 10 stories of building, minimum topmost 3 stories to be of residential use only |
| Should have constructed area of minimum 80% of quantities mentioned in point no. 1.1 a), b), c) respectively as applicable. |                                                                                                                                                 |

#### **Building height definition to read as stated below:-**

“Height of a building” means the vertical distance measured, in the case of flat roofs, from the average level of the ground around and contiguous to the building to the top of the terrace level. (For example, 30m height shall be excluding height of parapet wall, staircase room, LMR & OHWT)

Experience of Construction of Commercial building/structure will not be counted.



### **1.1.2 Prefabrication Capacity**

a) The bidder shall have his own Prefabrication structure manufacturing facility with annual capacity of 36,000 MT with RDSO approval for Part A Manufacturer

b) If the bidder doesn't have his own Prefabrication structure manufacturing facility, then MOU with RDSO approved Part A manufacturer with annual capacity of 36,000 MT for structures and a solvency certificate of Rs. 1,50,00,000/- is compulsory, failing which the bidder shall be disqualified.

Prefabrication manufacturer with whom MOU is entered into should have executed at least any one of the following categories in last 5 years.

c) Three Prefabrication residential buildings/structure of minimum 1950 MT each  
OR

d) Two Prefabrication residential buildings/structure of minimum 2500 MT each  
OR

e) One Prefabrication residential buildings/structure of minimum 3300 MT each.

Note:- Technically eligible single/JV bidder is allowed to enter a MOU with a prefabrication manufacturer to participate in tendering process for executing the current project but provided the Technical criteria fulfillment by single/ JV bidder.

### **1.2. Financial Capacity**

Achieved a average annual financial turnover as certified by 'Chartered Accountant' (in all classes of civil engineering construction works only) equal to **30%** of the estimated cost of work in **last three (3) financial years** immediately preceding the Financial Year in which bids are invited.

- To ascertain this, tenderer(s) shall furnish /upload the financial statement (Audited balance sheet) duly certified by Chartered Accountant.
- The turnover can be enhanced by 10% every year to bring the present level.

**1.3 Joint Venture (JV)/Special Purpose Vehicle (SPV) shall be allowed subject to the standard term and condition mention in the GCC clause 83 of this tender. Bidder may execute work through SPV with due approval of BMC authorities and compliance of any conditions stipulated by BMC authority. In case the bidder is submitting bid through newly formed SPV, the parent company documents can be relied upon for meeting the Technical and Financial Eligibility.**

**Tender conditions apply if JV is at 3 or more members, details are already mentioned in General Conditions of Contract Clause 83 of this tender. If the JV is of 2 participants, the lead partner will have 51% of experience required.**

### **C. Bid Capacity:**

**The bid capacity of the prospective bidders will be calculated as under:**

**Assessed Available Bid Capacity = (A\* N\* 2 - B)**

Where,

**A** = Maximum value of Civil Engineering works executed in any one year (year means Financial year) during **the last five years** (updated to the price level of the Financial year in which bids are received at a rate of 10% per year) taking into account the completed as well as works in progress.

**N** = Number of years prescribed for completion of the Project/Works, **excluding monsoon period**, for which these bids are being invited. (E.g. 7 months = 7/12 year) For every intervening monsoon 0.33 shall be added to N.

**B** = Value of existing commitments (only allotted works) on the last date of submission of bids as per bidding document and on-going works to be completed during the period of completion of the Project/Works for which these bids are being invited.

Note: The statement showing the value of existing commitments and on-going works as well as the stipulated period of completion remaining for each of the works listed should be attached along with certificates duly signed by the Engineer-in Charge, not below the rank of an Executive Engineer or equivalent.

**Even though the bidders meet the above qualifying criteria, they are subject to be disqualified if they have:**

- made misleading or false representation in the forms, statements and attachments submitted in proof of the qualification requirements; and/or
- Record for poor performance such as abandoning the works, not properly completing the contract, inordinate delays in completion, litigation history ( circular u/no. MGC/F/6565 dated 25/09/2018) , or financial failures etc.

### **Mechanical & Electrical Works:**

#### **Eligibility criteria for specialized Mechanical & Electrical Works:**

If specialized jobs are to be executed by the prime bidder in-house, then the bidder has to submit documents for having fulfilled the technical capacity criteria. Incase, specialized jobs are to be executed through nominated Sub-contractor fulfilling technical capacity criteria then, the prime bidder should submit the credentials of nominated sub-contractors for specialized work (Electical work, Firefighting work), along with mandatory enclosures as mentioned below. The Memorandum of Undertaking (MoU) on Rs.500/- Stamp Paper with the nominated sub-contractor shall be submitted for each specialized job(Electical work, Firefighting work) separately by prime bidder along with the bid in Packet B. It will be binding on the contractor to get the individual M&E work executed through such approved nominated Sub-contractor (with MOU) only. All MOU with specialized subcontractor to be supported with board resolution of both parties and should be binding to the effect that bidder cannot change sub-contractor without consent of BMC. To change in appointed sub-contractor bidder shall have to refer conditions mentioned in the section of special directions to bidders, clause no. 52 “Special instructions for appointment of sub contractor for M&E works, firefighting works, HVAC work, Lift works and any other specialized works etc” in the draft tender.

## **Technical Capacity**

### **A) For Electrical Work:-**

1) Tenderer/Nominated Sub Contractor of electrical shall have registered with the MCGM in Class “A” as per new registration rule 2016. Tenderer/Nominated Sub Contractor of electrical works shall have valid PWD's electrical contractors license and his own office setup in Mumbai/Navi Mumbai/Thane area.

2) Registered electrical contractors of Railways / CIDCO / Central Public Works Dept./ Maharashtra State Public Works Department whose office is in Mumbai/Navi Mumbai/Thane area having class equivalent to Class “A” of BMC as per new registration rules ‘2016’ are also eligible to quote for the tender subject to the condition that the contractor who are not registered with BMC shall apply for registration within three months’ time period in similar category in BMC from the award of contract, otherwise their EMD and ASD will be forfeited and the award of contract will be treated as cancelled. The contractor shall have valid PWD's electrical contractor's license. and his own office setup in Mumbai/Navi Mumbai/Thane area.

#### ***(Supporting documents and certificates shall be uploaded by main contractor.)***

The contractor(s) in their own name should have satisfactorily executed the work of similar nature in MCGM /Semi Govt. /Govt. & Public Sector Organizations Sector & Private Sector Organizations during **last seven (7) years** ending last day of month previous to the one in which bids are invited as a prime Contractor (or as a nominated sub-Contractor, where the subcontract had involved similar nature of work as described in the scope of works in this bid document, provided further that all other qualification criteria are satisfied).

a) One project worth with built up area not less than 25720 m<sup>2</sup> (25% of tender document constructed area of multi-story building in each work)

**OR**

b) Two projects with built up area not less than 30860 m<sup>2</sup> (30% of tender documents constructed area of multi-story building in each work.)

**OR**

c) Three projects with builtup area not less than 41150 m<sup>2</sup> (40% of tender documents constructed area of multi-story building in each work.)

#### ***(Supporting documents and certificates shall be uploaded by main contractor.)***

### **Similar Experience:**

Similar work shall mean, Work of Supply, installation, testing & commissioning of Electrical systems.

**B) Fire Fighting, fire alarm and fire detection Work:-**

Firms dealing in the line of installations of Fire Fighting and fire detection / suppression systems enlisted with Directorate of Maharashtra fire services as eligible (as on the date of invitation on tender) licensing agency for SITC of Fire Fighting and fire detection / suppression systems having their office at Mumbai/Navi Mumbai/ Thane area.

(Supporting documents and certificates shall be uploaded by main contractor.)

The tenderer(s) in their own name should have satisfactorily executed the work of similar nature in BMC /Semi Govt. /Govt. & Public Sector Organizations Sector & Private Sector during last seven (7) years ending last day of month previous to the one in which bids are invited as a prime Contractor (or as a Specialised agencies, where the subcontract had involved similar nature of work as described in the scope of works in this bid document, provided further that all other qualification criteria are satisfied) and his own office setup in Mumbai/Navi Mumbai/Thane Area

**A) Three similar completed works or currently executing three similar works of similar nature admeasuring not less than 25720 m2 (25% of tender tenements constructed area in multi-story building).\***

**OR**

**B) Two similar completed works or currently executing two similar works of similar nature admeasuring not less than 30860 m2 (30% of tender tenements constructed area of multi-story building)\***

**OR**

**c) One similar completed works or currently executing one similar works of similar nature admeasuring not less than 41150 m2 (40% of tender tenement constructed area of multi-story building)**

**Similar Experience:**

**Similar work shall means, Work of Supply, installation, testing & commissioning of Fire Fighting and fire detection/ suppression systems.**

**All MOU with specialized subcontractor for all above works to be supported with board resolution of both parties and should be binding to the effect that bidder cannot change sub-contractor without consent of BMC. This is also applicable to MOU with prefabricated structure manufacturing facility**

**SECTION 3**  
**DISCLAIMER**

## **DISCLAIMER**

The information contained in this e-tender document or provided to Applicant(s), whether verbally or in documentary or any other form, by or on behalf of the Brihanmumbai Municipal Corporation Mumbai (BMC), hereafter also referred as “The Authority “, or any of its employees or advisors, is provided to Applicant(s) on the terms and conditions set out in this e-tender and such other terms and conditions subject to which such information is provided.

This e-tender includes statements, which reflect various assumptions and assessments arrived at by the Brihanmumbai Municipal Corporation Mumbai (BMC) in relation to the Project. Such assumptions, assessments and statements do not purport to contain all the information that each Applicant may require. This e-tender may not be appropriate for all persons, and it is not possible for the Brihanmumbai Municipal Corporation Mumbai (BMC), its employees or advisors to consider the investment objectives, financial situation and particular needs of each party who reads or uses this e-tender. The assumptions, assessments, statements and information contained in this e-tender may not be complete, accurate, adequate or correct. Each Applicant should therefore, conduct its own investigations and analysis and should check the accuracy, adequacy, correctness, reliability and completeness of the assumptions, assessments, statements and information contained in this e-tender and obtain independent advice from appropriate sources.

Information provided in this e-tender to the Applicant(s) is on a wide range of matters, some of which may depend upon interpretation of law. The information given is not intended to be an exhaustive account of statutory requirements and should not be regarded as a complete or authoritative statement of law. The Brihanmumbai Municipal Corporation Mumbai (BMC) accepts no responsibility for the accuracy or otherwise for any interpretation or opinion on law expressed here.

The Brihanmumbai Municipal Corporation Mumbai(BMC), its employees and advisors make no representation or warranty and shall have no liability to any person, including any Applicant or Bidder, under any law, statute, rules or regulations or tort, principles of restitution or unjust enrichment or otherwise for any loss, damages, cost or expense which may arise from or be incurred or suffered on account of anything contained in this e-tender or otherwise, including the accuracy, adequacy, correctness, completeness or reliability of the e-tender and any assessment, assumption, statement or information contained therein or deemed to form part of this e-tender or arising in any way with pre-qualification of Applicants for participation in the Bidding Process. The Brihanmumbai Municipal Corporation Mumbai (BMC) also accepts no liability of any nature whether resulting from negligence or otherwise howsoever caused arising from reliance of any Applicant upon the statements contained in this e-tender.

The Brihanmumbai Municipal Corporation Mumbai (BMC) may, in its absolute discretion but without being under any obligation to do so, update, amend or supplement the information, assessment or assumptions contained in this e-tender.

The issue of this e-tender does not imply that the Brihanmumbai Municipal Corporation Mumbai (BMC) is bound to select and short-list pre-qualified Applications for Bid Stage or to appoint the selected Bidder or Concessionaire, as the case may be, for the Project and the Brihanmumbai Municipal Corporation Mumbai (BMC) reserves the right to reject all or any of the Applications or Bids without assigning any reasons whatsoever.

The Applicant shall bear all its costs associated with or relating to the preparation and submission of its Application including but not limited to preparation, copying, postage, delivery fees, expenses associated with any demonstrations or presentations which may be required by The Brihanmumbai Municipal Corporation Mumbai (BMC) or any other costs incurred in connection with or relating to its Application. All such costs and expenses will remain with the Applicant and the Brihanmumbai Municipal Corporation Mumbai(BMC) shall not be liable in any manner whatsoever for the same or for any other costs or other expenses incurred by an Applicant in preparation or submission of the Application, regardless of the conduct or outcome of the Bidding Process.

## **SECTION 4**

### **INTRODUCTION**

## INTRODUCTION

### **1. Background:**

The Brihanmumbai Municipal Corporation Mumbai covers an area of 437.71sq.kms.with a population of **1.24 Crores as per census of 2011**. The metropolis accounts major portion of India's international trade and government's revenue, from being one of the foremost centers of education, science and technological research and advancement.

The Mumbai Metropolis has historic tradition of strong civic activism dedicated to the cause of a better life for all its citizens. And it's the Brihanmumbai Municipal Corporation Mumbai (BMC), hereafter called the "corporation", the primary agency responsible for urban governance in Greater Mumbai.

BMC (The Authority) is one of the largest local self-governments in the Asian Continent. In observance of historic traditions of strong civic activism, with the change in time and living conditions to match with the urbanization, BMC has mainly focused in providing almost all kinds of engineering services viz, Hydraulics, storm water drain, sewerage, water supply projects, roads, bridges, solid waste management, and environmental services. Beside this, the BMC is also providing dedicated services in various segments such as Health, Primary Education as well as the construction and maintenance of Public Markets and Slaughter Houses.

BMC is an organization having different departments, right from engineering depts. to health depts. Moreover we have other dept. like education, market, fire brigade dept., Octroi and other such departments where quite a good number of staff members are working.

### **Scope of Work:**

BMC is primarily an organization, which in the interest of citizens and with the speed of urbanization deals with the variety of the infrastructure services and delivered to the public by different departments like Water Supply Projects, Sewerage Projects, Hydraulics, Storm Water Drain/Roads and bridges and Building Construction etc.

**Name of work:- Lumpsum tender (Turnkey) for construction of Residential Tenements (having size of 37.80 sqm & 55.55 sqm each) on plot known as '600 tenement plot' bearing CTS No. 1(pt) & CTS No. 3 (pt) (Sub plot D having area 8746.90 sqm) at Village Deonar, M/E Ward.**

The detail scope of work are as follows:

2 nos of buildings are to be constructed on plot having area of 8746.90 sqm considering basic zonal FSI Consideration is 4.0 with 35% additional fungible FSI totaling 5.4 for the plot area under consideration of 8746.90 sqm. Work is 2 nos of buildings having (i) Total 308 Tenements of 37.80 sqm each and (ii) 416 Tenements of 55.55 sqm each. The details of the site are given below:

| Sr. No. | Type of Tenements                | No. of buildings | Total No. of tenements proposed |
|---------|----------------------------------|------------------|---------------------------------|
| 1       | Tenements-407 sq.ft.& 598 sq.ft. | 2                | 308+416=724                     |



**Area Selected for Phase-II of Development for plot area of 8746.90 sqm**

| <b>No.</b> | <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Construction Area (Sqm)</b> |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| 1          | Residential Tenements Type III-416 nos of flats with 27 floors-55.55 sqm.carpet area (Building 8)                                                                                                                                                                                                                                                                                                                                     | 40901.5                        |
| 2          | Residential Tenements Type II- 308 nos of flats with 27 floors-37.80 sqm.carpet area (Building 9)                                                                                                                                                                                                                                                                                                                                     | 23969.1                        |
| 3          | Podium for car parking- 5 floors + Stilt inclusive of security room, BMS room, society office and toilet , ladies and gents staff toilet, letter box areas, meter room and all areas stipulated in tender document (22,906.40 parking + 4,581.28 stilt)                                                                                                                                                                               | 27487.68                       |
| 4          | Terrace Area including OHT (domestic, flushing and firefighting) Staircase cabin 3m ht. and parapet 1.5m                                                                                                                                                                                                                                                                                                                              | 2830.66                        |
| 5          | Landscaping inclusive of earth filling , garden earth filling , waterprofing and water disposal at podium level, lawn and shrub plantation ,irrigation systemand all requisite servives and rain water disposal system.(landscape areas are considered at ground level/ podium top level as per approval drawings                                                                                                                     | 2186.73                        |
| 6          | Internal Roads- of phase II area inclusive of road construction as per tender document, storm water drain, street lights and requisite survices including paver finish as per tender.(cost includes security cabin provision at all gates - 4 gates)                                                                                                                                                                                  | 2736.59                        |
| 7          | Compound Wall for plot boundary between phase I and phase II for 102.4m for height of 1.95m totalling 199.72 sq.m. compound wall will constructed as per tender specification inclusive of requisite foundation and two no of gate of height , width 9m                                                                                                                                                                               | 199.72                         |
| 8          | Substation- Provision of substation is taken in this tender incase specifically insisted on by electrical supply authority. Incase phase I substation is adequate to cater to total power requirements of phase II and supply authorities do not insist on separate substation, the same will not be constructed and cost deducted from overall project cost. (substation if constructed, is to be planned in the RG at ground level) | 360                            |
| 9          | Refuge Area- At all levels as per approval drawings including provision of ladies and gents toilets, drinking water facilities and provision as per tender and municipal approval authority requirements.                                                                                                                                                                                                                             | 1839.08                        |
| 10         | Underground Tank- inclusive of fire fighting storage, domestic and flushing storage, sumps, access ladders ,manholes ,vent pipes, piping and pumping connections ,pumps, electrical connections and pump room complete with all equipment as per tender and CFO requirements                                                                                                                                                          | 341.88                         |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                       | 102852.94                      |

**Methodology/Technology for proposed project:-**

The construction methodology/ technology should be based on Composite Building/ Prefabrication technology however the prospective bidder shall have to comply with following points:

- a) The proposed construction methodology/ technology i.e. Composite Building/ prefabrication technology should have been tried & tested in the market and should be sustainable and acceptable.
- b) In case required the bidder shall have to arrange site visit of the BMC committee at his cost. The decision of BMC authority in this regard shall be final and binding. The bidder shall have to submit all the approvals certificates from the relevant appropriate authorities with respect to proposed methodology/ technology.
- c) The bidder should have authorization / rights to use the proposed technology.
- d) The bidder shall submit all the construction methodology.
- e) The bidder should submit its bid as per the specification mention in Section 10.
- f) Building constructed using this technology should have life more than or at least equal to regular RCC buildings i.e. 50 years.

**Note:-**

1. All the items of the Plant & machinery and accessories fabricated/bought as per specification and drawing shall be approved class and liable for inspection and testing before dispatch. Contractor shall arrange all the necessary test (routine as well as functional) in the presence of the engineer at manufacturer premises or at site in accordance with the appropriate standards. No material shall be despatched without the consent of the Engineer. Contractor shall arrange visit for factory inspection of the equipment of various services i.e. DG Set, Electrical Panels, Fire Panel, STP, Lifts, CCTV etc. whenever necessary with required no. of persons as specified by Engineer in charge at that time at any location within or outside India with no extra cost with prior permission of Competent authority.
2. Contractor shall take prior approval of the competent authority for all equipment before execution.

**SECTION 5**  
**E-TENDERING ONLINE SUBMISSION PROCESS**

## **E-TENDERING ONLINE SUBMISSION PROCESS**

### **IMPORTANT NOTICE TO BIDDERS ON e-TENDERING**

GOVERNMENT E-PROCUREMENT SYSTEM has successfully rolled out the e-bid submission Tendering System through its web site <https://mahatenders.gov.in>. Tenders of various Departments have been uploaded, their bids submitted and the same have been opened on line. Bids for various tenders published in the web site of Government Departments can be submitted online by enrolling with the above mentioned web site.

The bidders can enroll themselves on the website <https://mahatenders.gov.in> using the option “Online Bidder Enrollment”. Possession of a Valid Class III Digital Signature Certificate (DSC) in the form of smart card/e-token in the Company's name is a prerequisite for registration and participating in the bid submission activities through this web site. Digital Signature Certificates can be obtained from the authorized certifying agencies, details of which are available in the web site <https://mahatenders.gov.in> under the link “Information about DSC”.

The web site also has user manuals with detailed guidelines on enrollment and participation in the online bidding process. The user manuals can be downloaded for ready reference. Vendors can also attend the training/familiarization programme on the e-tendering system conducted periodically by the GOVERNMENT E-PROCUREMENT SYSTEM in association with NIC.

#### **Special Instructions to the Contractors/Bidders for the e-submission of the bids online through this eProcurement Portal**

1. Bidder should do Online Enrolment in [www.mahatenders.gov.in](http://www.mahatenders.gov.in) Portal using the option to Enroll available in the Home Page. Then the Digital Signature enrolment has to be done with the e-token, after logging into the portal. The e-token may be obtained from one of the authorized Certifying Authorities such as Mudhra CA/ GNFC/ IDRBT/ Mtnl Trust line/ Safe Sctpt/ TCS.
2. Bidder then logs into the portal giving user id / password chosen during enrolment.
3. The e-token that is registered should be used by the bidder and should not be misused by others.
4. DSC once mapped to an account cannot be remapped to any other account. It can only be Inactivated.
5. The Bidders can update well in advance, the documents such as certificates, purchase order details etc., under **My Documents** option and these can be selected as per tender requirements and then attached along with bid documents during bid submission. This will ensure lesser upload of bid documents.
6. After downloading / getting the tender schedules, the Bidder should go through them carefully and then submit the documents as per the tender document, otherwise, the bid will be rejected.
7. Applicant will upload Packet A documents in cover 1 “Fee” and Packet B related Documents in cover 2 “PQC” respectively.
8. The BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns in the uploaded BOQ, else the bidder is liable to be rejected for that tender. For commercial details (in Packet C) contractors will fill data in financial bid in BOQ and quotes his “(+) or (-) Percentage” (i.e.% quoted) figure..

9. If there are any clarifications, this may be obtained online through the eProcurement Portal, or through the contact details given in the tender document. Bidder should take into account of the corrigendum published before submitting the bids online.
10. Bidder, in advance, should prepare the bid documents to be submitted as indicated in the tender schedule and they should be in PDF/XLS/RAR/DWF formats. If there is more than one document, they can be clubbed together.
11. Bidder should arrange for the EMD as specified in the tender. The original should be posted/couriered/given in person to the Tender Inviting Authority, within the bid submission date and time for the tender.
12. The bidder reads the terms and conditions and accepts the same to proceed further to submit the bids
13. The bidder has to submit the tender document(s) online well in advance before the prescribed time to avoid any delay or problem during the bid submission process.
14. There is no limit on the size of the file uploaded at the server end. However, the upload is decided on the Memory available at the Client System as well as the Network bandwidth available at the client side at that point of time. In order to reduce the file size, bidders are suggested to scan the documents in 75-100 DPI so that the clarity is maintained and also the size of file also gets reduced. This will help in quick uploading even at very low bandwidth speeds.
15. It is important to note that, **the bidder has to Click on the Freeze Bid Button, to ensure that he/she completes the Bid Submission Process. Bids Which are not Frozen are considered as Incomplete/Invalid bids and are not considered for evaluation purposes.**
16. The **Tender Inviting Authority (TIA)** will not be held responsible for any sort of delay or the difficulties faced during the submission of bids online by the bidders due to local issues.
17. The bidder may submit the bid documents online mode only, through this portal. Offline documents will not be handled through this system.
18. At the time of freezing the bid, the eProcurement system will give a successful bid updation message after uploading all the bid documents submitted and then a bid summary will be shown with the bid no, date & time of submission of the bid with all other relevant details. The documents submitted by the bidders will be digitally signed using the e-token of the bidder and then submitted.
19. After the bid submission, the bid summary has to be printed and kept as an acknowledgement as a token of the submission of the bid. The bid summary will act as a proof of bid submission for a tender floated and will also act as an entry point to participate in the bid opening event.
20. Successful bid submission from the system means, the bids as uploaded by the bidder is received and stored in the system. System does not certify for its correctness.
21. The bidder should see that the bid documents submitted should be free from virus and if the documents could not be opened, due to virus, during tender opening, the bid is liable to be rejected

22. The time that is displayed from the server clock at the top of the tender Portal, will be valid for all actions of requesting bid submission, bid opening etc., in the e-Procurement portal. The Time followed in this portal is as per Indian Standard Time (IST) which is GMT+5:30. The bidders should adhere to this time during bid submission.
23. All the data being entered by the bidders would be encrypted at the client end, and the software uses PKI encryption techniques to ensure the secrecy of the data. The data entered will not be viewable by unauthorized persons during bid submission and not viewable by any one until the time of bid opening. Overall, the submitted bid documents become readable only after the tender opening by the authorized individual.
24. During transmission of bid document, the confidentiality of the bids is maintained since the data is transferred over secured Socket Layer(SSL) with 256 bit encryption technology. Data encryption of sensitive fields is also done.
25. The bidders are requested to submit the bids through online eProcurement system to the TIA well before the bid submission end date and time **(as per Server System Clock)**.
26. The Municipal Commissioner reserves the right to reject all or any of the e-Tender(s) without assigning any reason at any stage. The dates and time for submission and opening the tenders are as shown in the Header Data. If there are any changes in the dates the same will be displayed on the e-Procurement System of Government of Maharashtra (Mahatenders) (<http://mahatenders.gov.in>).
27. Due to any unforeseen circumstances if any of the date mentioned in the header data is declared as public holiday, in that case all the dates\* will get shifted by one day or next working day.
28. BARRING PHYSICAL SUBMISSIONS
29. As the entire tendering procedure is online process; the physical submission of documents shall not be entertained.
30. The information about DSC, guidelines for bid submission, bidders manual kit, Help for Contractor, FAQ, etc are available on <https://mahatenders.gov.in>

**SECTION 6**  
**INSTRUCTIONS TO APPLICANTS**

## **INSTRUCTIONS TO APPLICANTS**

### ➤ **Scope of Application**

The Authority wishes to receive Applications for Qualification in order to SELECT experienced and capable Applicants for the Bid Stage.

### ➤ **Eligibility of Applicants**

The Brihanmumbai Municipal Corporation Mumbai (BMC) invites e-tender to appoint Contractor for the aforementioned work from Private sector organizations, contractors of repute, multidisciplinary engineering organizations i.e. eminent firm, Proprietary/Partnership Firms/ Private Limited Companies/ Public Limited Companies/ Companies registered under the Indian companies' act 2013 , the contractors registered with the Brihanmumbai Municipal Corporation Mumbai, (BMC) in **Class 1A as per new registration** and from the contractors/firms equivalent and superior classes registered in Central or State Government/Semi Govt. Organization/Central or State PublicSector Undertakings, excluding those who are blacklisted, demoted and debarred in BMC,P.W.D, other Government/ Semi Govt organizations in India/abroad and having their office in Mumbai will be allowed subject to condition that, the contractors who are not registered with BMC will have to apply for registering their firm within three months time period from the award of contract, otherwise their Bid Security i.e. E.M.D (Earnest Money Deposit) will be forfeited/recovered and a penalty 0.1% of contract cost OR Rs.10,000/- whichever is more will be recovered / deducted from the Contractors payment / bill by the executing department.

To be eligible for pre-qualification and short-listing, an Applicant shall fulfill the following conditions of eligibility:

#### **1. For Original and New building construction works**

**Name of work:-** Lumpsum tender (Turnkey) for construction of Residential Tenements (having size of 37.80 sqm & 55.55 sqm each) on plot, known as '600 tenement plot' bearing CTS No. 1 (pt) and CTS No. 3 (pt) (sub plot D having area 8746.90 sqm) at village Deonar, M/E ward.

#### **A) Eligibility criteria:**

##### **1.1 Technical Capacity (Project Experience):**

The tenderer(s) in their own name should have satisfactorily executed the work of similar nature BMC /Semi Govt. /Govt. & Public Sector Organizations during **last seven (7) years** ending last day of month previous to the one in which bids are invited as a prime Contractor (or as a nominated sub-Contractor, where the subcontract had involved similar nature of work as described in the scope of works in this bid document, provided further that all other qualification criteria are satisfied)

**a) Three similar completed works or currently executing three similar works of similar nature admeasuring not less than 25720 m2 of built up area 25% of tender tenement construction area in multistory buildings in each work.\***

**OR**

**b) Two similar completed works or currently executing two similar works of similar nature admeasuring not less than 30860 m2 of built up area 30% of tender tenement construction area in multistory buildings in each work.\***

**OR**

**c) One similar completed works or currently executing one similar work of similar nature admeasuring not less than 41150 m2 of built up area not less than 40% of tenement construction area in multistory buildings in each work.\***



-The bidder shall submit in Packet B the details of Construction Methodology / Technology which will be proposed for the said work.

- The bidder shall submit an undertaking in Packet B to obtain all approvals /NOC/Permits etc required for implementing the project from government /Semi government /Service Provider /BMC etc. in timely manner including transfer of ownership of land. The cost of the same shall be included in the bid submission by the bidder.

- Built up area will be considered Floor plate/Foot print of the building for the purpose of calculating eligibility.

In case of ongoing works to be considered, the bidder must have received payment bills of 80% of the contract sum for the work/works executed last day of month previous to the one in which bids are invited.

### 1.1.2 Similar experience is spelt in definite sense, such as-

Residential apartments in multistory building

#### For Building Construction

| Nos of stories                                                                                                            | Experience of construction                                                                                                                        |
|---------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Up to 4 stories                                                                                                           | No special experience                                                                                                                             |
| From 5 to 10 stories                                                                                                      | Minimum 5 stories and 15m building height                                                                                                         |
| From 11 to 15 stories                                                                                                     | Minimum 8 stories and 24m building height                                                                                                         |
| From 15+ stories                                                                                                          | (a) Minimum 10 stories and 30m building Height<br>(b) Out of the 10 stories of building, minimum topmost 3 stories to be of residential use only. |
| Should have constructed area of minimum 80% of quantities mentioned in point no. 1.1a),b),c) respectively, as applicable. |                                                                                                                                                   |

“Height of a building” means the vertical distance measured, in the case of flat roofs, from the average level of the ground around and contiguous to the building to the top of top most terrace level. (For example, 30m height shall be excluding height of parapet wall, staircase room, LMR & OHWT.) Experience of Construction of Commercial building/structure will not be counted.

### 1.1.3 Prefabrication Capacity

a) The bidder shall have his own Prefabrication structure manufacturing facility with annual capacity of 36,000 MT with RDSO approved Part A manufacturer.

b) If the bidder doesn't have his own Prefabrication structure manufacturing facility, then MOU with RDSO approved Part A manufacturer with annual capacity of 36,000 MT for structures and a solvency certificate of Rs.1,50,00,000/- is compulsory failing which the bidder shall be disqualified.

c) Prefabrication manufacturer with whom MOU is entered into should have executed at least any one of the following categories in last 5 years.

i. Three Prefabrication buildings/structure of minimum 1950 MT Each

OR

ii. Two Prefabrication buildings/structure of minimum 2500 MT Each

OR

iii. One Prefabrication buildings/structure of minimum 3300 MT Each

Note: Technically eligible single/JV bidder is allowed to enter a MOU with a prefabrication Manufacturer to participate in tendering process for executing the current project but provided The Technical criteria fulfillment by single / JV bidder.

### 1.2 Financial Capacity

Achieved a average annual financial turnover as certified by ‘Chartered Accountant’ (in all classes of civil engineering construction works only) equal to **30%** of the estimated cost of work in **last three (3) financial years** immediately preceding the Financial Year in which bids are invited.

- To ascertain this, tenderer(s) shall furnish /upload the financial statement (Audited balance sheet) duly certified by Chartered Accountant.
- The turnover can be enhanced by 10% every year to bring the present level.

### **C. Bid Capacity:**

**The bid capacity of the prospective bidders will be calculated as under:**

$$\text{Assessed Available Bid Capacity} = (A * N * 2 - B)$$

Where,

**A** = Maximum value of Civil Engineering works executed in any one year (year means Financial year) during **the last five years** (updated to the price level of the Financial year in which bids are received at a rate of 10% per year) taking into account the completed as well as works in progress.

**N** = Number of years prescribed for completion of the Project/Works, **excluding monsoon period** for which these bids are being invited. (E.g. 7 months = 7/12 year) For every intervening monsoon 0.33 shall be added to N.

**B** = Value of existing commitments (only allotted works) on the last date of submission of bids as per bidding document and on-going works to be completed during the period of completion of the Project/Works for which these bids are being invited.

Note: The statement showing the value of existing commitments and on-going works as well as the stipulated period of completion remaining for each of the works listed should be attached along with certificates duly signed by the Engineer-in Charge, not below the rank of an Executive Engineer or equivalent.

**Even though the bidders meet the above qualifying criteria, they are subject to be disqualified if they have:**

- made misleading or false representation in the forms, statements and attachments submitted in proof of the qualification requirements; and/or
- Record for poor performance such as abandoning the works, not properly completing the contract, inordinate delays in completion, litigation history( circular u/no. MGC/F/6565 dtd 25.09.2018), or financial failures etc.

The bidder should have bid capacity equal to or more than the tender estimated cost of Rs. 412,64,46,864/- (Excluding GST)

**D. Joint venture (JV)/Special Purpose Vehicle (SPV)** shall be allowed subject to the standard term and condition mentioned in the GCC clause 83 of this Tender. Bidder may execute work through SPV with due approval of BMC authorities and compliance of any conditions stipulated by BMC authority. In case the bidder is submitting bid through newly formed SPV the parent company documents can be relied upon for meeting the Technical and Financial eligibility.

**E. 1)Equipment Capabilities as required for this work**

**For New and Original Works (i.e. Construction of high rise building):**

The bidder should, undertake their own studies and **furnish with their bid**, a detailed construction planning and methodology supported with assessment study of requirements of equipment/plants & machineries to allow the employer to review their proposal. The bidder will ensure his commitment to make the arrangements of the required equipment on the day of commencement or with respect to the progress of the work in phases, as per the instructions of site in charge on an undertaking on Rs.500 stamp paper to be submitted along with the Bid in Packet B. However, this condition in no way shall dilute the respective condition in Registration Rules of BMC.

**Note: Bidders shall submit the undertaking for equipment capability and other undertakings as such on a single Rs. 500/- stamp paper.**

**F. PQC for Electrical and Mechanical Works**

**Mechanical & Electrical Works:**

**Eligibility criteria for specialized Mechanical & Electrical Works:**

If specialized jobs are to be executed by the prime bidder in-house, then the bidder has to submit documents for having fulfilled the technical capacity criteria. In case, specialized jobs are to be executed through nominated Sub-contractor fulfilling technical capacity criteria then, the prime bidder should submit the credentials of nominated sub-contractors for specialized work (Electrical work, Firefighting work), along with mandatory enclosures as mentioned below. The Memorandum of Undertaking (MoU) on Rs.500/- Stamp Paper with the nominated sub-contractor shall be submitted for each specialized job (Electrical work, Firefighting work) separately by prime bidder along with the bid in Packet B. It will be binding on the contractor to get the individual M&E work executed through such approved nominated Sub-contractor (with MOU) only. All MOU with specialized subcontractor to be supported with board resolution of both parties and should be binding to the effect that bidder cannot change sub-contractor without consent of BMC.

To change in appointed sub-contractor bidder shall have to refer conditions mentioned in the section of special directions to bidders, Clause no. 52 “Special instructions for appointment of sub contractor for M&E works, firefighting works, HVAC work, Lift works and any other specialized works etc” in the draft tender.

### **Technical Capacity**

#### **a) For Electrical Work:-**

1) Tenderer/Nominated Sub Contractor of electrical shall have registered with the MCGM in Class “A” as per new registration rule 2016. Tenderer/Nominated Sub Contractor of electrical works shall have valid PWD's electrical contractors license and his own office setup in Mumbai/Navi Mumbai/Thane area.

2) Registered electrical contractors of Railways / CIDCO / Central Public Works Dept./ Maharashtra State Public Works Department whose office is in Mumbai/Navi Mumbai/Thane area having class equivalent to Class “A” of BMC as per new registration rules ‘2016’ are also eligible to quote for the tender subject to the condition that the contractor who are not registered with BMC shall apply for registration within three months’ time period in similar category in BMC from the award of contract, otherwise their EMD and ASD will be forfeited and the award of contract will be treated as cancelled. The contractor shall have valid PWD's electrical contractor's license. and his own office setup in Mumbai/Navi Mumbai/Thane area.

#### ***(Supporting documents and certificates shall be uploaded by main contractor.)***

The contractor(s) in their own name should have satisfactorily executed the work of similar nature in MCGM /Semi Govt. /Govt. & Public Sector Organizations Sector & Private Sector Organizations during **last seven (7) years** ending last day of month previous to the one in which bids are invited as a prime Contractor (or as a nominated sub-Contractor, where the subcontract had involved similar nature of work as described in the scope of works in this bid document, provided further that all other qualification criteria are satisfied).

a) Three projects worth with built up area not less than 25720 m<sup>2</sup> (25% of tender document constructed area of multi-story building in each work)

**OR**

b) Two projects with built up area not less than 30860m<sup>2</sup> (30% of tender documents constructed area of multi-story building in each work.)

**OR**

c) One projects with builtup area not less than 41150 m<sup>2</sup> (40% of tender documents constructed area of multi-story building in each work.)

#### ***(Supporting documents and certificates shall be uploaded by main contractor.)***

#### **Similar Experience:**

Similar work shall mean, Work of Supply, installation, testing & commissioning of Electrical systems.

**b)Fire Fighting & Fire Alarm System.**

Firms dealing in the line of installations of fire fighting and detection systems enlisted with Directorate of Maharashtra fire services as eligible (as on date of invitation on tender) licensing agency for SITC of fire fighting and detection systems,

(Supporting documents and certificates shall be uploaded by main contractor)

- 1) The agency should have executed SITC of Fire fighting and Fire Alarm works in the last seven years as under:-

**A)Three similar completed works or currently executing three similar works of similar nature admeasuring not less than 25720 m2 (25% of tender tenements constructed area in multi-story building).\***

**2) OR**

**B) Two similar completed works or currently executing two similar works of similar nature admeasuring not less than 30860 m2 (30% of tender tenements constructed area of multi-story building)\***

**OR**

**c) One similar completed works or currently executing one similar works of similar nature admeasuring not less than 41150 m2 (40% of tender tenement constructed area of multi-story building)**

**Similar Experience:**

**Similar work shall means, Work of Supply, installation, testing & commissioning of Fire Fighting and fire detection/ suppression systems.**

All MOU with stipulated subcontractors to be supported with Board Resolution of both parties and should be binding to the effect that the bidder cannot change the subcontractor without consent of BMC. This also applies to MOU with Prefabrication structure manufacturing facility.

**G. Technical Personnel**

The contractor and/or its managerial staff should have qualification/experience appropriate to the function they fulfill. The minimum standard shall be increased by asking that at least one number or more of the contractor or its managerial staff have acquired qualifications or work experience to the needs of the contract. The minimum standard may also state that the person or persons responsible for managing the works must have a minimum of no's of years' experience working on similar nature of projects. For Fixing Requirement of Technical Staff as required for this work:-

A) Technical Staff Proposed for this work.

| Cost of Work (Rs. In Crore) | Requirement of Technical Staff (Major+Minor Component) |        | Minimum Experience (years) | Designation                                                                  |
|-----------------------------|--------------------------------------------------------|--------|----------------------------|------------------------------------------------------------------------------|
|                             | Qualification                                          | Number |                            |                                                                              |
| More than 100               | i) Graduate Engineer (Major Component)                 | 1      | 20                         | Project Manager in Major Discipline of Engineering                           |
|                             | ii) Graduate Engineer                                  | 2+1    | 12                         | Deputy Project Manager in Major Discipline of Engineering i.e. Civil + 1 M&E |
|                             | iii) Graduate Engineer or Diploma Engineer             | 2<br>4 | 5<br>10                    | Project/Site Engineer, Civil 1 M&E                                           |
|                             | iv) Graduate Engineer                                  | 1+1    | 8                          | Quality Engineer (1 Civil + 1 M&E)                                           |
|                             | v) Diploma Engineer                                    | 1      | 8                          | Surveyor                                                                     |
|                             | vi) Graduate Engineer                                  | 1+1    | 6                          | Project Planning /Billing Engineer (1 Civil + 1 M&E)                         |
| More than 50 up to 100      | i) Graduate Engineer                                   | 1      | 20                         | Project Manager                                                              |
|                             | ii) Graduate Engineer                                  | 1+1    | 12                         | Deputy Project Manager                                                       |
|                             | iii) Graduate Engineer or Diploma Engineer             | 2+1    | 5or 10                     | Project/Site Engineer                                                        |
|                             | iv) Graduate Engineer                                  | 1      | 8                          | Quality Engineer                                                             |
|                             | v) Diploma Engineer                                    | 1      | 8                          | Surveyor                                                                     |
|                             | vi) Graduate Engineer                                  | 1+1    | 6                          | Project Planning /Billing Engineer                                           |
| More than 20 up to 50       | i) Graduate Engineer                                   | 1      | 20                         | Project Manager                                                              |
|                             | ii) Graduate Engineer or Diploma Engineer              | 1+1    | 5 or 10                    | Project/Site Engineer                                                        |
|                             | iii) Graduate Engineer                                 | 1      | 8                          | Quality Engineer                                                             |
|                             | iv) Diploma Engineer                                   | 1      | 8                          | Surveyor                                                                     |
|                             | v) Graduate Engineer                                   | 1+1    | 6                          | Project Planning /Billing Engineer                                           |

**Notes- 1** “Cost of work”, in table above, shall mean the agreement amount of the work.

2. Rate of recovery in case of non-compliance of the clause be stipulated at following rates:-

| Sr. No | Qualification                         | Experience(years)    | Rate of Recovery |
|--------|---------------------------------------|----------------------|------------------|
| 1      | Project Manager with degree           | 20                   | Rs.60000/-p.m.   |
| 2      | Deputy Project Manager with degree    | 12                   | Rs.40000/-p.m.   |
| 3      | Project/Site Engineer(Degree/Diploma) | 5 or 10 respectively | Rs.25000/-p.m.   |
| 3      | Quality Graduate Engineer             | 8                    | Rs.25000/-p.m.   |
| 4      | Surveyor                              | 8                    | Rs.15000/-p.m.   |
| 5      | Project Planning/ Billing Engineer    | 6                    | Rs.20000/-p.m.   |

*3.Nothing extra need to be added while preparing market rate justified amount of the work if stipulation is made as per above recommended scale of technical staff.*

*4.Requirement of technical staff and their experience can be varied depending upon cost and complexity of the work by competent authority i.e. Chief Engineer with recorded reasons.*

*5. The failure in providing experienced technical and /professional ability personnel and even ignoring the instruction of the Engineer-in-charge shall be linked to penalization. Such disobeying attitude of the contractor shall also be reported to Vigilance/Registration & Monitoring department.*



## **H. TIME PERIOD OF THE PROJECT :**

Entire project should be completed and delivered within **6 months for approvals including transfer of ownership of land + 24 months project time period** of time from the commencement date of contract (Including Monsoon) excluding time delay not attributable to successful bidder. The time period required for obtaining different permission from different Govt. Agencies including transfer of ownership of land shall be excluded while calculating 24 months time period which is to be considered as 6 months.

The time allowed for carrying out the work as entered in the Tender shall be strictly observed by the Contractor and shall be reckoned from the date on which the Letter of Acceptance is given to the Contractor. The work shall throughout the stipulated period of the Contract be proceeded with all due diligence as time being deemed to be the essence of the contract on the part of the Contractor. On failing to do so, the Contractor shall pay as compensation an amount which shall be governed as per Clause - 8(e) of Standard General Conditions of Contract.

The Contractor should complete the work as per phase given below:

|                     |    |                                                          |
|---------------------|----|----------------------------------------------------------|
| ¼ of the work in    | .. | ¼ of the time                                            |
| ½ of the work in    | .. | ½ of the time                                            |
| ¾ of the work in    | .. | ¾ of the time                                            |
| Full of the work in | .. | Full of the time Full work will be completed in 4 months |

for obtaining approvals + 24 months inclusive of monsoon

The programme for completion of work shall be a part of the Contract Document in the form of Bar Chart / GANTT Chart. The Contractor is supposed to carry out the work and keep the progress as per Bar Chart/GANTT Chart. The Contractor shall complete the work as per the Schedule given in the Contract and the programme submitted by the Contractor.

In case the contractor fails to achieve the desired progress as per time schedule for any reason whatsoever and fails to rectify the lapses and show positive progress, BMC shall be entitled to levy deterrent penalty.

## **I. Contract Execution**

All required documents for execution of the contract shall be submitted within 30 days from the date of issue of letter of acceptance. If the documents are not submitted within the stipulated time a penalty of Rs 5000/- per day will be applicable to the contractor. All contract documents need to be duly affixed with stamp duty properly signed along with evidence/proof of payment of security/contract deposit/ within 30 days from the date of letter of acceptance received by him

- J.** If the amount of the Contract Deposit to be paid above is not paid within 30 days from the date of issue of Letter of Acceptance, the Tender / Contractor already accepted shall be considered as cancelled and legal steps shall be taken against the contractor for recovery of the amounts.
- K.** The amount of Security Deposit retained by the BMC shall be released after expiry of period up to which the contractor has agreed to maintain the work in good order is over. In the event of the contractor failing or neglecting to complete the rectification work within the period up to which the contractor has agreed to maintain the work in good order, the amount of security deposit retained by BMC shall be adjusted towards the excess cost incurred by the Department on rectification work.

**L. Action when whole of security deposit is forfeited:**

In any case in which under any Clause of this contract, the contractor shall have rendered himself liable to pay compensation amounting to the whole of this security deposit whether paid in one sum or deducted by instalments or in the case of abandonment of the work owing to serious illness or death of the contractor or any other cause, the Engineer on behalf of the Municipal Commissioner shall have power to adopt any of the following process, as he may deem best suited to the interest of BMC.-

- (a) To rescind the contract (for which recession notice in writing to the contractor under the head of Executive Engineer shall be conclusive evidence) and in that case, the security deposit of the contract shall stand forfeited and be absolutely at the disposal of BMC.
- (b) To carry out the work or any part of the work departmentally debiting the contractor with the cost of the work, expenditure incurred on tools and plant, and charges on additional supervisory staff including the cost of work-charged establishment employed for getting the un-executed part of the work completed and crediting him with the value of the work done departmentally in all respects in the same manner and at the same rates as if it had been carried out by the contractor under the terms of his contract. The certificate of the Executive Engineer as to the costs and other allied expenses so incurred and as to the value of the work so done departmentally shall be final and conclusive against the contractor.
- (c) To order that the work of the contractor be measured up and to take such part thereof as shall be un-executed out of his hands, and to give it to another contractor to complete, in which case all expenses incurred on advertisement for fixing a new contracting agency, additional supervisory staff including the cost of work charged establishment and the cost of the work executed by the new contract agency will be debited to the contractor and the value of the work done or executed through the new contractor shall be credited to the contractor in all respects and in the same manner and at the same rates as if it had been carried out by the contractor under the terms of his contract. The certificate of the Executive Engineer as to all the cost of the work and other expenses incurred as aforesaid for or in getting the un-executed work done by the new contractor and as to the value of the work so done shall be final and conclusive against the contractor.
- (d) In case the contract shall be rescinded under Clause (a) above, the contractor shall not be entitled to recover or be paid any sum for any work therefor actually performed by him under this contract unless and until the Executive Engineer shall have certified in writing the performance of such work and the amount payable to him in respect thereof and he shall only be entitled to be paid the amount so certified. In the event of either of the courses referred to in Clause (b) or (c) being adopted and the cost of the work executed departmentally or through a new contractor and other allied expenses exceeding the value of such work credited to the contractor's amount of excess shall be deducted from any money due to the contractor, by BMC under the contract or otherwise, howsoever, or from his security deposit or the sale proceeds thereof provided, however, the contractor shall have no claim against BMC even if the certified value of the work done departmentally or through a new contractor exceeds the certified cost of such work and allied expenses, provided always that whichever of the three courses mentioned in clauses (a), (b) or (c) is adopted by the Executive Engineer, the contractor shall have no claim to compensation for any loss sustained by him by reason of his having purchased or procured any materials or entered into any engagements or made any advance on account of or with a view to the execution of the work or the performance of the contract.
- (e) BMC shall reserve the right to foreclose the project work at any stage for whatsoever circumstances without giving any reason. The contractor shall be paid for his work done subjected to applicable conditions.

**M. Contract may be rescinded and security deposit forfeited for bribing a public officer or if contractor becomes insolvent**

If the contractor assigns or sublets his contracts or attempts so to do, or becomes insolvent or commences any proceeding to get himself adjudicated and insolvent or makes any composition with his creditors, or attempts so to do or if bribe, gratuity, gift, loan, perquisite, reward or advantage, pecuniary or otherwise, shall either directly or indirectly be given, promised or

offered by the contractor or any of his servants or agents through any public officer, or person in the employ of BMC/Govt. in any way relating to his office or employment, or if any such officer or person shall become in any way directly or indirectly interested in the contract the Engineer In-charge may thereupon, by notice in writing rescind the contract and the Security Deposit of the Contractor shall thereupon stand forfeited and be absolutely at the disposal of BMC and the same consequences shall ensue as if the contract had been rescinded under above clause J hereof; and in addition the contractor shall not be entitled to recover or be paid for any work therefore actually performed under the contract.

## **N. Project Management Consultant :**

BMC has appointed Project Management Consultant M/s Master & Associates for validation and bill certification, site records, Proof checking, Construction supervision, Quality Assurance, Quality control and Quality audit including Architectural services for construction of dwelling units for project known as “600 Tenements”. The successful Bidder /Contractor shall carry out the project work in coordination with PMC and BMC staff. In case of any conflict /interpretation etc between PMC & contractor the decision of AMC /MC shall be final and binding in this regards.

### **Role of Architect & Project Management Consultant**

1. The Consultants shall exercise power and authority as well as perform duty, all the duties, liabilities, functions and obligations as the Engineer’s representative as indicated in the contract.

2. The Consultants shall review, audit and ensure systematic and timely preparation and supply of design documents, working drawings, estimates, if any, and schedules from the contractors as per contractor’s conditions with BMC. He shall maintain these records and present such documents to the BMC as required by them for approval.

3. The Consultants shall be expected to suggest modifications wherever considered necessary to improve the performance of the project components with particular attention to:-

- a. Durability
- b. Water tightness of roofs, walls and sanitary blocks.
- c. Ease of construction at various stages
- d. Strength and Stability of the structure
- e. and performance of the services.

If out these suggestions any extra cost is involved he shall obtain prior approval of BMC, before enforcing the same on the contractor.

4. For the purpose of review and audit, the consultant shall employ suitably qualified and experienced engineers at his own cost.

5. The contractor is to obtain approvals, N.O.C.s etc. from local authorities. However, the consultant shall supplement the action of seeking approvals, N.O.C.s from local authorities. For this, no extra payment will be made to P.M.C.

### **Project Management Consultants Services**

The project management consultant will perform the following services in each of the following services under this agreement in each of the phases:-

#### **Pre-Tender Activities**

1. Architect and PMC have prepared all scope drawings for the project and drawings and details upto submission stage for Building Proposal and CFO.

2. Assisting BMC to finalize the selection of Contractor and also attending prebid conferences for selection of Contractors.

3. It shall be the duty and responsibility of the Consultants to advise the BMC regarding acceptance or rejection of the tenders received. The BMC will give the most careful consideration to the advice and recommendations of the Consultants, but it shall have absolute right to accept or reject any or all tenders without assigning any reason whatsoever and the decision of the BMC shall be final and binding on

all the parties.

4. Scheduling: The Consultant will Develop a Project Schedule that coordinates and integrates the work of the Contractor's team and BMC activities with design, detailed estimates and construction schedule. Update the Project Schedule incorporating a detailed schedule for all activities of the Project including realistic activity sequences and durations, allocation of labour and materials, processing of working drawing shop drawings and samples, and delivery of products requiring long lead-time procurement, including the BMC occupancy requirements showing portions of the Project having occupancy priority.

5. Project Budget: Prepare a Project Budget as soon as major project requirements have been identified, and update periodically for the BMC approval. Advise BMC if it appears that the Project Budget will not be met and make recommendations for corrective action.

#### **Post Tender Construction Activities of Consultant**

1. The consultants will be required during the construction phase to provide the field supervision and sufficient technical assistant (staff) for check on quality control of the work at site. For this purpose, the consultants shall have to post their Engineer-in-Charge at the site of work and provide the agreed necessary and adequate technical staff for supervision and exercising adequate and constant day-to-day technical supervision over the construction including giving layout, its checking requirements of materials and their procurement in time, conforming to approved specifications and accepted standards. Submission of weekly or fortnightly progress report as per the directions of the BMC, submitting recommendations on extra items including maintaining necessary site records containing data in support of the same, carrying out field tests on materials, structures, etc. and maintaining adequate records thereof and certifying the bills for quality control for payment to the contractor's quantity and including recommendation of extension of time, extra item variation statements, quality control check for final bills etc. in the forms prescribed by BMC.
2. The scope under this phase of the assignment shall include, inter alia, the following :
  - i. Complete day to day supervision of contracted buildings infrastructural and land development works for individual schemes ensuring quality control in accordance with tendered stipulations, specifications, drawings and site conditions. The quality control will be exercised at all stages of construction, viz. approval of materials, usage thereof in proper proportions and workmanship at all stages of execution of individual items of work and ensuring proper functioning of various components of works of building and services and infrastructure. The sample for field test will be taken by PMC in the presence of the contractor and to be got tested in the reputed laboratory. The testing charges will be borne by the contractor.
  - ii. Ensure proper establishment of field laboratories by Contractors to conduct laboratory tests on materials for construction such as cement, steel, bricks, etc. Essential gauges, instruments etc., should be got calibrated periodically. The Consultant shall maintain necessary site records and obtain data in support of the same. They shall carry out field and laboratory tests on materials of construction as well as partially or completely erected structures etc. and maintain adequate records thereof. The P.M.C. should analyse, interpret and assume full responsibility with records to the conformity of the test results with relevant I.S. provisions.
  - iii. Suggesting modifications, if any, due to site conditions and advising regarding cost variations, on account of extra items and excesses.
  - iv. Ensure close coordination with the Architect and Structural, Mechanical and Electrical Engineers of the Contractor regarding details, clarifications and

modifications in details, if any, as also for regular and timely flow of details and instructions

- v. Verification of Contractor's periodic or stagewise bills for the work done and material advance, recording joint measurements of work wherever necessary and certification of the work to be paid for. The certification of all the bills shall be done by an authorized Chief Engineer or Senior Engineer of the Consultants.
- vi. Monitoring progress by using modern methods of control such as Computerised PERT/CPM, submission of progress reports of work executed monthly. Both financial and physical progress reports with reference to prefixed targets will be prepared. Constant review of progress within present time and cost parameters, will have to be done. Consultants will have to suggest improvements from time to time.
- vii. Complete administration and management of contract till expiry of the defects liability period, and payment of final dues to the contractors.
- viii. Coordination with other contracting agencies and the agencies like Adani Electricity, Civil Aviation etc. which are expected to be working in the same area. Consultants shall ensure that the contractor obtains approvals from such local authorities to the work.
- ix. Obtaining from the contractors and certifying 'As-built' drawings of buildings including drawings showing foundation details and strata and the net work of services and two sets on reproduce-able paper will be made available.
- x. Obtain from the contractor properly documented 'Maintenance Manual' for the buildings and all the services, internal and connected to the project works.
- xi. Verifications of work on completion and issue of completion certificate in coordination with Contractor's Architect and furnish the same to the BMC/Local Competent Authority.
- xii. Verification by taking and recording joint measurements of the final bill to be submitted by the contractors, preparation and finalization of final bills, as per the terms and conditions of Contract Agreement and Certificate through Contractor's Architects for release of final payment by BMC.
- xiii. Advising BMC with regard to extra items claim/disputes, if any and work in hand with the legal department of BMC legal consultants till the cases are settled. At the end of virtual completion of works, all relevant records shall be handed over to BMC.
- xiv. Rendering generally as such consultants, all technical services as may in any way relate to or arise out of the construction of the said work as have been entrusted to the consultants by the BMC.
- xv. Generally rendering to the BMC every assistance, guidance or advice on any matter concerning the technical aspect of the project.
- xvi. The consultant shall collect and deliver to the BMC any specific written warrantee or guarantees given by others, including all required trade contractor's guarantees and warrantees.
- xvii. To work as conciliator in the event of any dispute arising between the parties before the matter goes to legal forum.
- xviii. To prepare numbering plan and handover document as per the rules of BMC for the tenements constructed under the Project.
- xix. Preparation and submission of quarterly progress report and interim completion report.
- xx. Pursue the local authorities such as Adani Electricity, H.E., SWD, S.O. etc. for handing over infrastructure to be taken over by BMC.

- O.** It will be entirely responsibility of the contractor to provide and install secure barricades on work site, wholly at his cost. The barricading shall be provided as per specifications and as per site requirements and the circular issued u/no. MGC/F/6342 dated 05.05.2018 shall be applicable. BMC will not make any payments towards barricading; contractor shall quote accordingly.

All the excavated material belongs to the Brihanmumbai Municipal Corporation and therefore shall be the property of BMC. The excavated material shall be removed from site and dump to suitable dumping ground at the risk and cost of the contractors. The payment of transportation charges shall not be paid by the BMC. The bidder must consider all the cost above and must quote accordingly

**P. Categories and classes available for Civil Contractors.**

A. New registration. (2016)

Minimum Financial requirements for Civil Engineering Discipline (Rs.In Lakh)

| Class  | Amounts upto which work can be taken up | Minimum Solvency | Average turnover of work done during last 3 years | Estimated cost of work in hand during current year |
|--------|-----------------------------------------|------------------|---------------------------------------------------|----------------------------------------------------|
| I(A)   | Without Limit                           | 150              | 300                                               | 450                                                |
| I(B)   | 2500                                    |                  |                                                   |                                                    |
| I(C)   | 1500                                    |                  |                                                   |                                                    |
| II     | 750                                     | 75               | 200                                               | 300                                                |
| III    | 300                                     | 30               | 90                                                | 150                                                |
| IV     | 150                                     | 15               | 60                                                | 80                                                 |
| IV (A) | 90                                      | 9                | 40                                                | 60                                                 |
| V      | 50                                      | 5                | 25                                                | 30                                                 |
| V (A)  | 30                                      | 3                | 15                                                | 10                                                 |
| VI     | 15                                      | 2                | 7.5                                               | 10                                                 |
| VII    | 7                                       | 1                | 1.5                                               | 3                                                  |
| VIII   | 3                                       | 0.5              | 1                                                 | 1.5                                                |
| IX     | 2                                       | 0.25             | 0.5                                               | 1                                                  |

**B. Minimum Financial requirements for M&E (Rs in Lakh)**

| Sr No. | Class | Amount upto which works can be taken up | Minimum Solvency | Work completed in last 3 years | Average turnover of work done during last 3 years | Estimated cost of work in hand during current year |
|--------|-------|-----------------------------------------|------------------|--------------------------------|---------------------------------------------------|----------------------------------------------------|
| 1      | 2     | 3                                       | 4                | 5                              | 6                                                 | 7                                                  |
| 1      | A     | Without Limit                           | 8                | 60                             | 20                                                | 40                                                 |
| 2      | B     | 25                                      | 4                | 30                             | 10                                                | 30                                                 |
| 3      | B-1   | 15                                      | 3                | 18                             | 6                                                 | 16                                                 |
| 4      | C     | 10                                      | 3                | 18                             | 6                                                 | 15                                                 |
| 5      | D     | 7.5                                     | 1.5              | 9                              | 3                                                 | 8                                                  |
| 6      | E     | 2                                       | 0.5              | 3                              | 1                                                 | 1.75                                               |



- **Submission of Tenders on** e-Procurement System of Government of Maharashtra (Mahatenders) (<http://mahatenders.gov.in>)

Applicant will upload Packet A documents in cover 1 “Fee”

### **PACKET – A**

The Packet ‘A’ shall contain scanned certified copies of the following documents

Scrutiny of this packet will be done strictly with reference to only the scanned copies of Documents uploaded online in packet ‘A’

- a) Valid Registration Certificate.
- b) Valid Bank Solvency Certificate of Minimum Solvency amount as governed by Registration Rules in force for respective Class of Contractor for Civil and M&E works (Rs. 1,50,00,000)
- c) A document in support of Registration under CGST, SGST and IGST Registration Certificate in Maharashtra /India. Those not registered in Maharashtra shall submit an undertaking to the effect that if they are successful tenderer, they shall submit CGST, SGST and IGST Registration Certificate in Maharashtra within 15 days of issue of work order, failing which payment for the work executed will not be released.
- d) Certified copies of valid 'PAN' documents and photographs of the individuals, owners, Karta of Hindu Undivided Family, firms, private limited companies, registered co-operative societies, partners of partnership firms and at least two Directors, if number of Directors are more than two in case of Private Limited Companies, as the case may be. However, in case of Public Limited companies, Semi Government Undertakings, Government Undertakings, no 'PAN' documents will be insisted.
- e) Latest Partnership Deed in case of Partnership firm duly registered with Chief Accountant (Treasury) of BMC and registration certificate with registrar of companies in case of Private Ltd/Public Ltd/Semi Govt. & Govt. undertakings.
- f) Signed copy of minutes of pre-bid meeting or the addendum / corrigendum, if any.
- g) Tenderer should download from the tender document ‘Form of Tender’ & ‘Appendix I’, fill in the requisite details, sign wherever necessary, scan the same document, upload & submit bidder qualification as per proforma attached.
- h) The tenderer shall pay the EMD/Bid Security through payment gateways before submission of Bid and shall upload the screenshot of receipt of payment in Packet ‘A’ instead of paying the EMD at any of the CFC centers in BMC Ward Offices. **Bidder will deposit 90% EMD amount through online payment gateway of [www.mahatender.gov.in](http://www.mahatender.gov.in) while submitting bid and the 10% of EMD amount shall deposit through SAP system of BMC or through CFC or through D.D.**
- i) The bidders shall categorically provide their Email-ID in packet ‘A’.
- j) Annexure E in the Prescribed format on Rs. 500 Stamp paper as per circular no CAF/ Project / 19 dated 15.09.2017
- k) Scan copy of Details of online payment of EMD shall be uploaded.

**Documents to be enclosed by the JV firm along with the tender:**

**(To be submitted in Packet A)**

- l) In case one or more of the members of the JV firm is/are partnership firm(s), following documents shall be submitted:
  - Notary certified copy of the Partnership Deed,
  - Consent of all the partners to enter into the Joint Venture Agreement on a stamp paper of appropriate value (in original).
- Power of Attorney (duly registered as per prevailing law) in favor of one of the partners to sign the MOU and JV Agreement on behalf of the partners and create liability against the firm.

- m) In case one or more members is/are Proprietary Firm or HUF, the following documents shall be enclosed:
- Affidavit on Stamp Paper of appropriate value declaring that his Concern is a Proprietary Concern and he is sole proprietor of the Concern OR he is in position of "KARTA" of Hindu Undivided Family and he has the authority, power and consent given by other partners to act on behalf of HUF.
- n) In case one or more members is/are limited companies, the following documents shall be submitted:
- Notary certified copy of resolutions of the Directors of the Company, permitting the company to enter into a JV agreement, authorizing MD or one of the Directors or Managers of the Company to sign MOU, JV Agreement, such other documents required to be signed on behalf of the Company and enter into liability against the company and/or do any other act on behalf of the company.
  - Copy of Memorandum and articles of Association of the Company.
  - Power of Attorney (duly registered as per prevailing law) by the Company authorizing the person to do/act mentioned in the para (a) above.

All the members of the JV shall certify that they have not been black listed or debarred by BMC from participation in tenders/contract in the past either in their individual capacity or the JV firm or partnership firm in which they were members / partners.

**NOTE:**

- The bidder shall submit necessary documents / registration certificates as per mandatory applicable requirement.
- If the tenderer(s) withdraw tender offer during the tender validity period, his entire E.M.D shall be forfeited.
- If it is found that the tenderer has not submitted required documents in Packet "A" then, the shortfalls will be communicated to the tenderer through e-mail only and compliance required to be made within a time period of **three working days** otherwise they will be treated as Non Responsive.
- In case of JV, the lead partner to upload relevant documents both partners in packet A.

-



Applicant will upload Packet B related Documents in cover 2 “PQC”.

**PACKET – B**

**The Packet ‘B’ shall contain scanned certified copies of the following documents (For individual as well as JV bidders) -**

- a) The bidder shall deliver a detailed presentation of the construction methodology/technology giving all the relevant details.
- b) The list of similar type of works as stated in para ‘A’ of Post qualification successfully completed during the last Seven years in prescribed proforma, in the role of prime contractor. Information furnished in the prescribed proforma (Proforma – I) shall be supported by the certificate duly self-attested. Documents stating that it has successfully completed during the last Seven years at least one contract of similar works as stated in para ‘A’ of Post qualification.
- c) Annual financial turnover for **preceding three financial years as certified by Chartered Accountant** preceding the Financial Year in which bids are invited. **Copies of Applicants duly audited balance sheet and profit and loss account for the preceding three financial years preceding the Financial Year in which bids are invited.** (Proforma – II) At least three in last 5 years starting 2018-2019 to 2022-2023.
- d) Documents stating that, it has access to or has available liquid assets, unencumbered assets, lines of credit and other financial means (independent of any contractual advance payment) sufficient to meet the construction cash flow requirements for the subject contract in the event of stoppage, start-up, or other delay in payment, of the minimum 25% of the cost of the work tendered for, net of the tenderer's commitment of other contracts (Certificate from Bankers / C.A./Financial Institution shall be accepted as a evidence).
- e) The bidder shall give undertaking on Rs 500/-stamp paper that it is his/their sole responsibility to arrange the required machineries either owned/on lease or hire basis, at site before start of the work

The bidder shall take due cognizance of guidelines issued u/no.CA/F/P/City/19 dtd 15/09/2017, u/no.CA/F/P/City/24 dtd 10/10/2017 and CA/F/Project/28 dtd. 28.03.2023 accordingly shall submit irrevocable undertaking in Annexure-A format on Rs.500/- stamp paper enclosed in Draft Tender.

- f) **New and Original Works:** The bidder should, undertake their own studies and **furnish with their bid**, a detailed construction planning and methodology supported with assessment study of requirements of equipment/plants & machineries to allow the employer to review their proposal. The bidder shall ensure his commitment to make the arrangements of the required equipment on the day of commencement or with respect to the progress of the work in phases, as per the instructions of site in charge on an undertaking on Rs.500 stamp paper to be submitted along with the Bid in Packet B. However, this condition in no way shall dilute the respective condition in Registration Rules of BMC.
- i) Successful completion of at least one contract of size stated in prequalification criteria during last seven financial years (Performa-III).
- ii) Information on provision of suitably qualified personnel capabilities (Performa-IV).
- iii) Equipment ownership list of owned equipment/machines (Performa-VA).
- iv) List of owned machinery or have assured access through, hire, lease, purchase agreement or other commercial means. (Performa-VB)
- v) Details of works in hand (Proforma VI-A & VI-B) (original), along with copies of work orders & attested copies of percentage of works completed or part thereof.
- vi) Statement showing assessed available Bid Capacity.
- vii) The undertaking of Rs.500/- stamp paper as per the proforma annexed in ‘Annexure B & C’ and submit ‘Annexure B & C’ on separate stamp paper of Rs. 500/-
- viii) MOU with Prefabrication manufacturer with Valid RDSO approval for Part A manufacturer.
- ix) MOU with specialized electrical contractor (All MOUs on Rs. 500 stamp paper). Municipal

Registered Electrical Contractors in Class A as per new registration rule 2016. The contractors who are not registered with BMC will have to submit the undertaking stating that he will apply for registering their firm within 3 months time period from the date of issue of work order. The contractor shall have valid PWD electrical contractor license and his own office setup in Mumbai/Navi Mumbai/Thane area.

- x) MOU with specialized fire fighting contractor (All MOUs on Rs. 500 stamp paper) along with following clauses:- a) The contractor/sub contractor shall submit the valid fire contractor Registration certificate of Government of Maharashtra Directorate of Maharashtra Fire Service. B) The contractor shall have his own office setup in Mumbai/Navi Mumbai/Thane
- xi) Undertaking in Packet B to obtain all approvals/demarcation/NOC/Permits etc. required for implementing the project from Government/Semi government/ Service Provider/BMC etc. including transfer of ownership of land in timely manner. The cost of the same shall be included in the tender bid by the bidder. Documentation for all approvals will be prepared by PMC in conjunction with the Bidder and submitted after BMC approval at each state. All statutory payments to be borne by the bidder on behalf of BMC.
- xii) Bidder shall make detailed presentation of the construction methodology/technology giving all relevant details
- xiii) Also submit "Annexure M" on Rs. 500 stamp paper as mentioned in special directions to the bidders clause no. 52 for any changes in the appointed sub contractor (for M&E Work, firefighting work).
- xiv) The bidder shall disclose the litigation history in Packet B under the head Details of litigation History (circular u/no. MGC/F/6565 dtd. 25.09.2018).

If there is no litigation history, the bidder shall specially mention that there is no litigation history against him as per the clause of litigation history, In case there is litigation history, Litigation history must cover – Any action of blacklisting, debarring, barring, banning, suspension, deregistration and cheating with BMC, state Govt, Central Govt. Or any authority under state or Central Govt/ Govt organisation initiated against the company, firm, directors, partners or authorized signatory shall be disclosed for last 5 years from the date of submission of bid. Also, bidder must disclose the litigation history for last 5 years from the date of submission of bid about any action like show cause issued, blacklisting, debarring, barring, banning, suspension, deregistration and cheating with BMC and BMC is party in the litigation against the company, firm, directors, partners or authorised signatory for carrying out any work for BMC by any authority by BMC and the orders passed by the competent authority or by any court where BMC is a party. While taking decision on litigation history, the concerned Chief Engineer or DMC or Director as may be the case, should consider the details submitted by bidder and take decision based on the gravity of the litigation and the adverse effect of the act of company, firm, directors, partners or authorised signatory on the BMC works which can be spoiled the quality, output, delivery of any goods or any work execution and within the time frame.

#### **"Details of Litigation History". (MGC/F/6565 dt. 25.09.2018)**

If there is no Litigation History, the bidder shall specifically mention that there is no Litigation History against him as per the clause of Litigation History. In case there is Litigation History, Litigation History must cover-

Any action of blacklisting, debarring, banning, suspension, deregistration and cheating with BMC, State Govt., Central Govt. or any authority under State or Central Govt./Govt. organization initiated against the company, firm, directors, partners or authorized signatory shall be disclosed for last 5 years from the date of submission of bid. Also, bidder must disclose the litigation history for last 5 years from the date of submission of bid about any action like show cause issued, blacklisting, debarring, banning, suspension, deregistration and cheating with BMC and BMC is party in the litigation against the company, firm, directors, partners or authorized signatory for carrying out any work for BMC by any authority of BMC and the orders passed by the competent authority or by any Court where BMC is a party. While taking decision on litigation history, the concerned Chief Engineer or

D.M.C. or Director, as may be the case, should consider the details submitted by bidder and take decision based on the gravity of the litigation and the adverse effect of the act of company, firm, directors, partners or authorized signatory on the BMC works which can spoil the quality, output, delivery of any goods or any work execution and within the time frame.

The bidder shall disclose the litigation history in Packet B under the head “Details of litigation history.”

**Note: Bidders shall submit the undertaking for equipment capability and other undertakings as such on a single Rs.500/- stamp paper.**

The bidder shall disclose the litigation history in Packet ‘B’ under the head “Details of Litigation History.”

**xv) The tenderers shall upload work plan as per the following outline:**

1. GANTT chart/ PERT/ CPM chart showing the completion of work within prescribed time period, considering major activities.
2. Organizational set up envisaged by the contractors.
3. Plant & equipment proposed to be deployed for this work.
4. Site Offices and Laboratories proposed to be set up.
5. A note on how the whole work will be carried out (work plan including methodology).
6. Quality management plan.
7. All the activities included in the Scope of Work shall be covered in the work plan
  - 7 a) Circular u/no. DMC/CPD/3217 dated 2/03/2019 regarding grievance redressal.
8. Signed copies of corrigendum/Addendum if any
9. Information of Litigation History (Proforma-VIII) in which tenderer is involved. Proformas below:-

| Other Party (ies) | Employer | Cause of dispute | Amount involved | Remarks showing Present Status |
|-------------------|----------|------------------|-----------------|--------------------------------|
| 1                 | 2        | 3                | 4               | 5                              |
|                   |          |                  |                 |                                |
|                   |          |                  |                 |                                |

10. The successful bidder shall submit an undertaking on Rs.500/- stamp paper mention that the work will be completed within stipulated time period as mentioned in the tender. In case of not completing the work within the stipulated time period penalty will be recovered as per tender condition under circular no AMC/ES/2700 dtd 27.05.2019.
11. Technical person experience should be in Packet B in the format submitted on personnel Proforma-IV of this Tender.(uploaded in clarification on Specifications, utility planning and electrical items and specifications Sr. No. 8 dated 30.08.2022)

**Note:**

**i.**The Electrical / Mechanical work shall be got carried out by the civil contractors through the contractors registered with BMC. in Electrical Category. Information about the registered contractors shall be obtained from the office of the Ch.E. (M&E)/ E.E. (Monitoring & Registration Cell). Attested scanned copy of the valid registration certificate in Electrical Category shall be uploaded with the tender along with the undertaking from the registered Electrical Contractor stating his willingness to carry out the tender work.

**ii.** The successful bidder shall submit valid registration certificate under E.S.I.C., Act 1948, if the tenderer has more than 10 employees /persons on his establishment (in case of production by use of energy) and 20 employees/persons on his establishment (in case of production without use of energy) to BMC as and when demanded. In case of less employees/persons mentioned above then the successful bidder has to submit an undertaking to that effect on Rs. 500/- stamp paper as per circular u/no. CA/FRD/I/65 of 30.03.2013.

**iii.** The successful bidder shall submit valid registration certificate under E.P.F. & M.P., Act 1952, if tenderer has more than 20 employees/persons on his establishment, to BMC as and when demanded. In case if the successful bidder has less employees/persons mentioned above then the

successful bidder has to submit an undertaking to that effect on Rs. 500/- stamp paper as per circular u/no. CA/FRD/I/44 of 04.01.2013.

**Note:**

- If it is found that the tenderer has not submitted required documents in Packet “B” then, the shortfalls will be communicated to the tenderer through e-mail only and compliance required to be made within a time period of three working days otherwise they will be treated as non-responsive.
- BMC reserves the right to reject any bid whose plan and area calculation is not maximizing the FSI consumption as per prevailing norms.
- Utilization of full plot potential is the essence of the tender and the final construction shall be carried out with full FSI potential estimate without any variance to tender rates quoted in spite of the modifications/variance.

Applicant will quote financial bid in Packet C.

**PACKET – C**

- a. The bidder shall submit bid based on the estimated cost. The rates quoted shall be inclusive of all rates and taxes.

**Note: In case of rebate/premium of 15% and above as quoted by the tenderer, the rate analysis of major items shall be submitted by L1 and L2 bidder after demand notification by e-mail to bidders by concerned Dy. Ch. Eng. The format for rate analysis is annexed at Annexure D.**



### BID SECURITY OR EMD

- The Bidder shall furnish, as part of the Bid, Bid Security/EMD, in the amount specified in the Bid Data Sheet. This bid security shall be in favor of the authority mentioned in the Bid Data Sheet and shall be valid till the validity of the bid.
  - The tenderers shall pay the EMD online instead paying the EMD at any of the CFC centers in BMC Ward Offices.
  - Any bid not accompanied by an acceptable Bid Security and not secured as indicated in sub-clause mentioned above, shall be rejected by the Employer as non-responsive.
  - The Bid Security of the successful Bidder will be discharged when the Bidder has received the LOA. Security deposit/Performance Guarantee to be paid by the bidder on handover of site or commencement of work whichever is earlier.
  - The Bid Security/ EMD of L-3 and downward bidders shall be refunded immediately after opening of financial bid but the EMD/ASD submitted by the L-2 bidder will be returned after obtaining undertaking from the L-2 bidder.
  - In case, the successful bidder becomes non-responsive or successful bidder withdraws the bid or is unwilling to extend the bid validity period, in such circumstances, if L-2 bidder is agreeable to extend bid validity period and ready to deposit the requisite amount of bid security/EMD and ASD to the department within the stipulated time period i.e.15 days, the department will process further as per normal procedure. (Please refer circular no. CA (F) / Project / 32 dt. 26.10.2020).
  - The Bid Security may be forfeited:
    - a) If the Bidder withdraws the Bid after bid opening (opening of technical qualification part of the bid during the period of Bid validity;
    - b) In the case of a successful Bidder, if the Bidder fails within the specified time limit to:
      - i. sign the Agreement; and/or
      - ii. Furnish the required Security Deposits.
1. The cases wherein if the shortfalls are not complied by a contractor, will be informed to Registration and Monitoring Cell. Such non-submission of documents will be considered as 'Intentional Avoidance' and if three or more cases in 12 months are reported, shall be viewed seriously and disciplinary action against the defaulters such as banning/de-registration, etc. shall be taken by the registration cell with due approval of the concerned AMC.
  2. No rejections and forfeiture shall be done in case of curable defects. For non-curable defects the 10% of EMD shall be forfeited and bid will be liable for rejection.

### **FORFEITURE OF EMD FOR BEING NON-RESPONSIVE**

1. The practice of forfeiting 10% of EMD on non-compliance of the shortfalls is continued. However, no rejections and forfeiture shall be done in case of curable defects. For non-curable defects the 10% of EMD shall be forfeited and bid will be liable for rejection. **Bidder will deposit 90% EMD amount through online payment gateway of [www.mahatender.gov.in](http://www.mahatender.gov.in) while submitting bid and the 10% of EMD amount shall deposit through SAP system of BMC or through CFC or through D.D.**
2. The forfeiture of EMD in the cases wherein if these submissions are not followed by a contractor, shall be informed by the user department to Registration and Monitoring Cell so as to make a data base of such defaults of the contractors.
3. In case of non-submission of documents be considered as 'Intentional Avoidance' and if three or more cases in 12 months are reported, it shall be viewed seriously and disciplinary action against the defaulters which includes demotion, suspension, etc. shall be taken by Registration cell as governed by relative provision in Registration Rules of BMC and Standard General Conditions of Contract.
4. Incentive and penalty Please refer the GCC condition no. 84 of this Tender.

**Note:**

**i) Curable Defect shall mean shortfalls in submission such as:**

**a. Non-submission of following documents,**

- i. Valid Registration Certificate- The contractors who are not registered With BMC will have to apply for registering their firm within three Months time period from the award of contract, otherwise the bid security will be forfeited.**
- ii. Valid Bank Solvency**
- iii. GST Registration certificate**
- iv. Certified Copies of PAN documents and photographs of individuals, owners, etc**
- v. Partnership Deed and any other documents**
- vi. Undertakings as mentioned in the tender document.**

**ii) Non-curable Defect shall mean**

- a. In-adequate submission of EMD/ASD amount,**
- b. In-adequacy of technical and financial capacity with respect to Eligibility criteria as stipulated in the tender.**
- c. Wrong calculation of Bid Capacity,**
- d. No proper submission of experience certificates and other documents (including MOU as per tender condition and as per circular Ch.E./BM/019919/II/07.01.2019)**

**BID VALIDITY**

- **Bids shall remain valid for a period of not less than one eighty (180) days after the deadline date for bid submission specified in Bid Data Sheet. A bid valid for a shorter period shall be rejected by the Employer as non-responsive.**
- In exceptional circumstances, prior to expiry of the original time limit, the Employer may request that the bidders may extend the period of validity for a specified additional period. The request and the bidders' responses shall be made in writing or by cable. A bidder may refuse the request without forfeiting his Bid Security. A bidder agreeing to the request will not be required or permitted to modify his bid, but will be required to extend the validity of his bid security for a period of the extension.

**DEFECT LIABILITY PERIOD**

- The Contractor is expected to carry out the construction work in Workmen like manner so as to meet the requirement and specification for the project. It is expected that the Workmanship and materials will be reasonably fit for the purpose for which they are required.
- Defects or defective work is where standard and quality of workmanship and materials as specified in the contract is deficient. Defect is defined as a failure of the completed project to satisfy the express or implied quality or quantity obligations of the construction contract. Defective construction works are as the works which fail short of complying with the express descriptions or requirements of the contract, especially any drawings or specifications with any implied terms and conditions as to its quality, workmanship, durability, aesthetic, performance or design. Defects in construction projects are attributable to various reasons.
- Some of the defects are structural defects results in cracks or collapse of faulty defective plumbing, inadequate or faulty drainage system, inadequate or faulty ventilation, cooling or heating systems, inadequate fire systems etc. The defects could be various on accounts of different reasons for variety of the projects.
- The Engineering In charge/Project Officer shall issue the practical completion certificate for the project. During the Defect Liability Period which commences on completion of the work, the Engineering In charge shall inform or the contractor is expected to be informed of any defective works by the Employer's representative of the defects and make good at



contractor's cost with an intention of giving opportunity to the contractor of making good the defects appeared during that period. It is the contractor's obligation under the contract to rectify the defects that appear during Defect Liability Period and the contractor shall within a reasonable time after receipt of such instructions comply with the same at his own cost. The Engineering In charge/Project Officer shall issue a certificate to that effect and completion of making good defects shall be deemed for all the purpose of this contract to have taken place on the day named in such defect liability certificate.

- If defective work or workmanship or design have been knowingly covered-up or conceived so as to constitute fraud, commencement of the Defect Liability Period may be delayed. The decided period may be delayed until **discover** actually occurs or at least the defect could have been discovered with reasonable diligence, whichever is earlier.
- The DLP shall be as below: **Dy.C.E.(B.C.) E.S.**

| Type of works                                                                                                                | DLP      |
|------------------------------------------------------------------------------------------------------------------------------|----------|
| General works/Infrastructure Works                                                                                           | 3 years  |
| Structural works                                                                                                             | 10 years |
| Waterproofing works                                                                                                          | 10 years |
| Lift/Fire Fighting/ M&E Works<br>(except consumable items i.e. tube lights,<br>fans etc in each tenement with 1 year<br>DLP) | 10 year  |

#### Definition of works listed under DLP

1. **General works:** It shall include works of masonry, plaster, Flooring, Dado, Painting, Door & windows and any other work which is excluded in the scope of structural work and waterproofing works.
2. **Structural works:** It shall include all RCC works, Structural Steel Works, etc.
3. **Waterproofing works:** It shall include waterproofing treatment to terrace, wet area, lift pit, etc. Wet areas like bath and WC, lift pit, chajja, Kitchen sink, Underground tank, OHT, pump room etc. where waterproofing treatment is done/applied.
4. **Infrastructure Works:** It shall include cement concrete road/mastic works, asphalt work, paver work and storm water drainage.
  - Also, in case of defect, the Engineer shall give notice to the Contractor of any Defects before the end of the Defects Liability Period, which begins at. The Defects Liability Period shall be extended for as long as Defects remain to be corrected. Every time notice of Defect/Defects is given, the Contractor shall correct the notified Defect/Defects within the duration of time specified by the Engineer's notice. The Engineer may issue notice to the Contractor to carry out removal of defects or deficiencies, if any, noticed in his inspection, or brought to his notice. The Contractor shall remove the defects and deficiencies within the period specified in the notice and submit to the Engineer a compliance report.
  - It is the Completion Stage when the contractor has completed all of the works and fixed all of the defects that were on the list of issue by Engineer-in-charge. When this happens, the engineer must issue a 'Certificate of Completion'. On the issue of 'Certificate of Completion', the 'Defect Liability Period' starts. The contractor also must issue a 'Certificate statement' as an acknowledgment to the engineer not later than 14 days after the 'Certificate of Completion' has been issued. During the 'Defect Liability Period', the contractor has to obey all written instructions from the engineer to carry out repairs and fix any defects which appear in the Permanent Works. If the contractor does not, due to his own faults finish the repair works or fix the defects by the end of 'Defect Liability Period', the 'Defect Liability Period' will continue until all works instructed by engineer is done.

## **SECURITY DEPOSIT AND PERFORMANCE GUARANTEE**

### **A. Security Deposit**

The security deposit shall mean and comprise of

- I) Contract Deposit and
- II) Retention Money.

- I) **Contract Deposit** – The successful tender, here after referred to as the contractor shall pay an amount equal to **two (2)** percent of the contract sum shall be paid on handover of site or commencement of work at site whichever is earlier.
- II) **Retention Money** – The contractor shall pay the retention money an amount equal to **5 % (percent)** of the Contract Sum which will be recovered from the contractors every bill i.e. interim / running / final bill of a site in a group.

### **B. Performance Guarantee**

The successful tender, here after referred to as the contractor shall pay in the form of “Performance Guarantee” at different rates for different slabs as stated below:

Performance guarantee shall be 1% of contract sum.

**Note: Contract sum shall mean amount after application of rebate/premium as quoted by the contractor with contingencies only and excluding price variation.**

The PG shall be paid in one of the following forms.

- I) Cash (In case guarantee amount is less than Rs.10,000/-)
- II) Demand Draft (~~In case guarantee amount is less than Rs.1,00,000/-~~)
- III) Government securities
- IV) Fixed Deposit Receipts (FDR) of a Schedule Bank.
- V) An electronically issued irrevocable bank guarantee bond of any Schedule bank or if in the prescribed form given in Annexure.

Performance Guarantee is applicable over and above the clause of Security Deposit. Performance Guarantee will have to be paid & shall be valid till the defect liability period or finalization of final bill whichever is later.

This deposit will be allowed in the form of I to IV as mentioned above and shall be paid on possession of site or commencement of work at site whichever is earlier.

**Note:** Following exceptions shall be adopted for ‘Demolition Tenders’:

- Irrespective of the offer (Rebate/ at par/ premium), ASD shall be differed and only PG of 10% of contract sum be taken from the successful bidder on award of contract only.
- BMC departments shall ensure to incorporate specific condition regarding above in bid document and e-tender notice.

### **C. Refund of Security Deposit**

#### **I. Refund of Contract Deposit**

The Contract Deposit shall be released within 30 days after completion of 6<sup>th</sup> year of DLP (in case of 10 years DLP) and after issue of ‘Defect Liability Certificate’ (in case of 1 or 2 or 3 years DLP) subject to no recoveries are pending against the said work, provided that the Engineer is satisfied that there is no demand outstanding against the Contractor. No claim shall be made against the Balance Contract Deposit after the issue of Defects Liability Certificate.

#### **II. Refund of Retention Money**

One-half (50%) of the Retention Money shall be released within 30 days of issue of ‘Certificate of Completion’ with respect to the whole of the Works. In the event the Engineer issues a Taking-over Certificate for a section or part of the Permanent Works, only such proposition thereof as the Engineer determines (having regard to the relative value of such section or part of the Works) shall be considered by the Engineer for payment to the Contractor.

The balance Retention Money shall be released within 30 days after completion of 6<sup>th</sup> year of DLP (in case of 10 years DLP) and after issue of ‘Defect Liability Certificate’ (in case of 1 or 2 or 3 years DLP) provided that the Engineer is satisfied that there is no demand outstanding against the Contractor. In the event of different Defects Liability Periods have been specified or become applicable to different sections or parts of the Permanent Works, the said moneys will be released within 30 days on expiration of the latest of such Defects Liability Periods.

Payment of the above mentioned 50% is exclusive of the amounts to be withheld as stated in and that amount shall be paid as per condition stated therein.

#### **III. Refund of Performance Guarantee**

The Deposit on account of performance guarantee shall be released within 30 days of completion of Defects Liability Certificate subject finalization of final bill whichever is later and no recoveries are pending against the said work, provided that the Engineer is satisfied that there is no demand outstanding against the Contractor.

#### **❖ Summary of time of Refund of deposit is tabulated as follows:**

##### **a) Time of Refund for works having 3 years DLP:-**

| <b>Deposits refunded after completion of work</b> | <b>After Completion of DLP</b> |
|---------------------------------------------------|--------------------------------|
| <b>50% of RM</b>                                  | <b>CD+50% of RM+PG</b>         |

**b) Refunds: - Time of refund for works having 10 years DLP.**

|                                            |                                           |
|--------------------------------------------|-------------------------------------------|
| Deposits refunded after completion of work | After 6 years of DLP                      |
| 50% of Retention Money                     | Contract Deposit + 50% of Retention Money |

**Time of refund of Performance Guarantee.**

| DLP                         | Percentage refund | Cumulative refund in percentage |
|-----------------------------|-------------------|---------------------------------|
| After 8 <sup>th</sup> year  | 30%               | 30%                             |
| After 10 <sup>th</sup> year | 70%               | 100%                            |

**\*Note:**

- a) It shall be clearly mentioned that the BG shall be applicable for individual work/contract and clubbing of various contracts of the said contractor will not be allowed. In case of obtaining Bank Guarantee, it is necessary to mention that the same shall be valid further 6 months from the completion of defect liability period/ warranty period.
- b) It shall be the responsibility of the bidder to keep the submitted B.G. “VALID” for the stipulated time period in the tender & in case of its expiry it will attract penalization.
- c) Bank Guarantee should be issued by way of General Undertaking and Guarantee issued on behalf of the Contractor by any of the Nationalized or Scheduled banks or branches of foreign banks operating under Reserve Bank of India regulations located in Mumbai up to Virar & Kalyan. List of approved Banks is appended at the end of Instructions to Bidders (ITB). The Bank Guarantee issued by branches of approved Banks beyond Kalyan and Virar can be accepted only if the said Bank Guarantee is countersigned by the Manager of a Regional Branch of the same bank within the Mumbai City Limit categorically endorsing thereon that the said Bank Guarantee is binding on the endorsing Branch of the Bank or the Bank itself within Mumbai Limits and is liable to be enforced against the said Branch of the Bank or the bank itself in case of default by the Contractors furnishing the Bank Guarantee. The Bank Guarantee shall be renewed as and when required and/or directed from time to time until the Contractor has executed and completed the works and remedied any defects therein.

**D. Legal + Stationary Charges: (As per applicable circular)**

Successful tender shall pay the Legal Charges +Stationary charges as per Circular no. 010539 dated: 28.03.2023 GST will be applicable as per circular no. 26206 dt. 31.08.2023.

| अनु. क्र | कंत्राट किंमत                                | एकत्रितरित्या आकारावयाचे सुधारीत विधी व लेखन साहित्य आकार दि. 01.09.2023 पासून दि. 31.03.2024 पर्यंत                                                                                                                  |
|----------|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1        | रु.. 50,000/-                                | निरंक                                                                                                                                                                                                                 |
| 2        | रु. 50,001 ते रु. 1,00,00,000                | कंत्राट किंमतीच्या 0.10% दराने (अशी येणारी रक्कम पुढील शंभराच्या पटीत परावर्तित करणे यासापेक्ष) अधिक 18% दराने वस्तू व सेवाकर ( किमान रु. 1000/- अधिक वस्तू व सेवाकर आणि कमाल रु. 10000/- अधिक वस्तू व सेवाकर )       |
| 3        | रु. 1,00,00,001 ते रु. 10,00,00,000/-        | रु. 1,00,00,000/- पर्यंतच्या कंत्राट किंमतीसाठी रु.10,000/- अधिक रु. 1,00,00,000/- पेक्षा जास्त रक्कमेवर 0.05% दराने (अशी येणारी रक्कम पुढील शंभराच्या पटीत परावर्तित करणे यासापेक्ष) अधिक 18% दराने वस्तू व सेवाकर   |
| 4        | रु. 10,00,00,001 ते पुढील कंत्राट किंमतीसाठी | रु. 10,00,00,000/- पर्यंतच्या कंत्राट किंमतीसाठी रु.55,000/- अधिक रु. 10,00,00,000/- पेक्षा जास्त रक्कमेवर 0.01% दराने (अशी येणारी रक्कम पुढील शंभराच्या पटीत परावर्तित करणे यासापेक्ष) अधिक 18% दराने वस्तू व सेवाकर |

The tenderers are requested to note that stationary charges as given in the table above will be recovered from the successful tenderer for supply of requisite prescribed forms for preparing certificate bills in respect of the work.

**E. Stamp Duty: (As per circular No. Ch.Eng./BM/17800/II dated 07.01.2016)**

It shall be incumbent on the successful tenderer to pay stamp duty on the contract.

- As per the provision made in Article 63, Schedule I of Bombay Stamp Act 1958, stamp duty is payable for “works contract” that is to say, a contract for works and labour or services involving transfer of property in goods (whether as goods or in some other form) in its execution and includes a sub-contract, as under :

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | <p><b>54 SECURITY OR MORTGAGE DEED</b></p> <p>where such security bond or mortgage deed is executed by way of security for due execution of an office or to account for money or other property received by virtue thereof or by a surety secure the due performance of a contract or in pursuance of an order of the court or public officer, not being .</p> <p>otherwise provided for by the Maharashtra court fees Act.</p> | <p>0.5 percent, for the amount secured by such deed subject to the maximum of ten lakh rupees :</p> <p>Provided that where on an instrument executed by a person for whom person stands surety and execute security bond or mortgage deed , duty has been paid under article 40 , then the duty payable shall be on hundred rupees.</p> <p><b>Exemptions</b></p> <p>Bond or other instrument when executed.</p> <p>a) by any person for purpose of guaranteeing that the local income derive from private subscription to a charitable dispensary or hospital or any other object of public utility shall not less than a specified sum per mensem;</p> <p>b) under the rules made by the state government under section 114 of the Maharashtra irrigation act, 1974;</p> <p>c) by taking person advance under the land improvement loan act, 1883 or the agricultural loan act, 1884 or by their sureties as security for the repayment of such advance.</p> <p>d) by officers of government of their sureties to secure the execution of an office or due to accounting for money or other property received by virtue thereof</p> |
| (a) | Where the amount or value set forth in such contract does not exceed rupees ten lakh.                                                                                                                                                                                                                                                                                                                                           | Five Hundred rupees stamp duty                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| (b) | Where it exceeds rupees ten lakhs                                                                                                                                                                                                                                                                                                                                                                                               | Five hundred rupees plus one hundred rupees for every Rs.1,00,000/- or part thereof, above rupees ten lakh subject to the maximum of rupees five lakh stamp duty.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

- ii. For stamp duty in B.G. 0.50% on original B.G as well as 0.50% on extended B.G. refer Letter of Stamp Duty Collector u/no. अंमल/कायालय/८९६/२०१६ दि. २३.०२.२०१६
- iii. The successful bidder shall enter into a contract agreement with BMC. within 30 days from the date of issue of Work Order and the same should be adjudicated for payment of Stamp Duty by the successful bidder.
- iv. Further shortfall if any, in amount of stamp duty paid as against prescribed amount for the documents executed in Mumbai City & Mumbai Suburban District be recovered from the concerned work contractors and to deposit the deficit or unpaid Stamp Duty and penalty by two separate Demand Draft or Pay Order in favour of “Superintendent of Stamp, Mumbai” within 15 days from intimation thereof.
- v. All legal charges and incidental expenses in this respect shall be borne and paid by the successful tenderer.

### **IMPORTANT DIRECTIONS**

1. All the information uploaded shall be supported by the corroborative documents in absence of which the information uploaded will be considered as baseless and not accepted for qualification criteria. All the documents shall be uploaded with proper pagination. The page No. shall be properly mentioned in the relevant places.

The information shall be uploaded in the sequence as asked for with proper indexing etc. The Bidder shall be fully responsible for the correctness of the information uploaded by him.

2. Applicants/Bidders shall refer e-Procurement System of Government of Maharashtra (Mahatenders) (<http://mahatenders.gov.in>)

Any queries or request for additional information concerning this TENDER shall be submitted by e-mail to [ee02dyce.bces@mcgm.gov.in](mailto:ee02dyce.bces@mcgm.gov.in) The subject shall clearly bear the following identification/ title: **Queries/ Request for Additional Information: TENDER for**

**Lumpsum tender (Turnkey) for construction of Residential Tenements (having size of 37.80 sqm & 55.55 sqm each) on plot known as '600 tenement plot' bearing CTS No. 1(pt) & CTS No. 3 (pt) (Sub plot D having area 8746.90 sqm) at Village Deonar, M/E Ward, for Brihanmumbai Municipal Corporation.**

Any changes in mail ID will be intimated on the portal.

3. In case of **Equal Percentage** of lowest bidders (L1), the allotment of work shall be done by giving 48 hrs(2 working days) from the day of opening of packet C **on same BID- Document number for re-quoting** and such development needs to be done in Maha Tender system. **Till such development is made; 'Sealed Bids' shall be called from the bidders quoting the same rates i.e. L1.**

In case of equal percentage of lowest bidders is obtained even after re-quoting, then the successful bidder will be decided by lottery system by concerned Chief Engineer / CE.

The bidder shall need to submit the additional ASD if applicable within 7 days after receipt of notification issued by concerned Chief Engineer / CE.

Also, the Performance Guarantee shall be paid in 15 days after receipt of Letter of Acceptance.

4. All excavated and surplus material will be disposed by nearby transportation at the cost of the contractor by adhering to all rules and regulations. No additional payment will be done to the contractor.
5. It will be the responsibility of the contractor to provide and install barricades on the work site wholly at his cost.
6. The labour welfare cess as applicable as per the Govt. Regulation u/no. SCA/2009/ Case No. 108/ Labour 7A/Mantralaya/Mumbai 400031 dated 17/6/2010 shall be recovered from Contractors bill

**SECTION 7**  
**SCOPE OF WORK**



## **SCOPE OF WORK**

### **Name of work-**

**Lumpsum tender (Turnkey) for construction of Residential Tenements (having size of 37.80 sqm & 55.55 sqm each) on plot known as '600 tenement plot' bearing CTS No. 1(pt) & CTS No. 3 (pt) (Sub plot D having area 8746.90 sqm) at Village Deonar, M/E Ward.**

The Scope of the work is as follows:

In all 2 nos of buildings are to be constructed on Sub Plot D having area of 8746.90 sqm. as per areas listed below:-

| Sr No. | Type of Tenements          | No. of bldgs. | Total Tenements |
|--------|----------------------------|---------------|-----------------|
| 1      | 308 Tenements of 37.80 sqm | 2             | 724             |
| 2      | 416 Tenements of 55.55 sqm |               |                 |

| No. | Description                                                                                                                                                                                                                                                                                                                                                                                                                           | Construction Area (Sqm) |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 1   | Residential Tenements Type III-416 nos of flats with 27 floors-55.55 sqm.carpet area (Building 8)                                                                                                                                                                                                                                                                                                                                     | 40901.5                 |
| 2   | Residential Tenements Type II- 308 nos of flats with 27 floors-37.80 sqm.carpet area (Building 9)                                                                                                                                                                                                                                                                                                                                     | 23969.1                 |
| 3   | Podium for car parking- 5 floors + Stilt inclusive of security room, BMS room, society office and toilet , ladies and gents staff toilet, letter box areas, meter room and all areas stipulated in tender document (22,906.40 parking + 4,581.28 stilt)                                                                                                                                                                               | 27487.68                |
| 4   | Terrace Area including OHT (domestic, flushing and firefighting) Staircase cabin 3m ht. and parapet 1.5m                                                                                                                                                                                                                                                                                                                              | 2830.66                 |
| 5   | Landscaping inclusive of earth filling , garden earth filling , waterproofing and water disposal at podium level, lawn and shrub plantation ,irrigation systemand all requisite servives and rain water disposal system.(landscape areas are considered at ground level/ podium top level as per approval drawings                                                                                                                    | 2186.73                 |
| 6   | Internal Roads- of phase II area inclusive of road construction as per tender document, storm water drain, street lights and requisite servives including paver finish as per tender.(cost includes security cabin provision at all gates - 4 gates)                                                                                                                                                                                  | 2736.59                 |
| 7   | Compound Wall for plot boundary between phase I and phase II for 102.4m for height of 1.95m totalling 199.72 sq.m. compound wall will constructed as per tender specification inclusive of requisite foundation and two no of gate of height , width 9m                                                                                                                                                                               | 199.72                  |
| 8   | Substation- Provision of substation is taken in this tender incase specifically insisted on by electrical supply authority. Incase phase I substation is adequate to cater to total power requirements of phase II and supply authorities do not insist on separate substation, the same will not be constructed and cost deducted from overall project cost. (substation if constructed, is to be planned in the RG at ground level) | 360                     |
| 9   | Refuge Area- At all levels as per approval drawings including provision of ladies and gents toilets, drinking water facilities and provision as per tender and municipal approval authority requirements.                                                                                                                                                                                                                             | 1839.08                 |
| 10  | Underground Tank- inclusive of fire fighting storage, domestic and flushing storage, sumps, access ladders ,manholes ,vent pipes, piping and pumping connections ,pumps, electrical connections and pump room complete with all equipment as per tender and CFO requirements                                                                                                                                                          | 341.88                  |
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                       | 102852.94               |

**Notes :**

1. The successful bidder /contractor shall execute the project in coordination with PMC and BMC in all respect and handover the possession after obtaining the Occupation certificate of the project in turnkey basis to BMC in stipulated time period.
2. Number of tenements mentioned in tender are tentative which may enhance or decrease as per site conditions and bidders design and planning by following prevailing norms. Payment to the successful bidder will be as per rates quoted by bidder for entire constructed area as stated in the payment schedule in this tender irrespective of increase or decrease in number of tenements mentioned in tender. The bidder will not be entitled to have any claim whatsoever. Full utilization of the plot potential is the intention of the tender. Plot potential of entire plot including adjoining municipal plot may be considered for full utilization of plot potential.
3. The successful bidder /contractor shall make inventory of the existing structures and debris etc. on site and demolish the same after the structure is vacated by concerned department of BMC & further debris removal has to be done by the bidder.
4. All the works contained in the scope of work shall be carried out strictly as per relevant specifications applicable as attached or referred to, in this tender document.
5. The above is general description of the scope of work and actual work mentioned above shall be as directed by the Engineer-in-charge.
6. The existing open plot will be vacated by BMC before issuing the work order, in phase wise manner or at once as the case may be. The site will be handed over to bidder accordingly.
7. Development of on site infrastructure shall be the responsibility of the bidder as per the prevailing norms viz roads, street light, storm water drain, water mains network, sewage network, landscape /RG, Telecom network, substation, Security monitoring with camera networking, firefighting, fire detection etc, The cost of the same shall be included in the tender bid by the bidder and the payment will be done as per measurement stated in the payment schedule in this tender document.
8. The bidder shall consider all expenses along with construction i.e that plumbing, electrical, mechanical, firefighting, fire detection, lifts etc work required in the project while quoting the per sq mt rate including temporary construction lift per building during construction phase.
9. The successful Bidder /contractor shall liaison and obtain all approvals/ demarcation/NOC/Permits required for implementing the project from including H.E. NOC, CFO NOC, MOEF NOC, Tree NOC, Electrical NOC,

Civil Aviation NOC, Horticultural Department Approval, PCO, SWD, SP, SO,CRZ,SOLAR, Gas Pipeline, Traffic, Metro, Monorail etc including transfer of ownership of land as and when suggested by PMC, Municipal Architect/BMC and required for implementing the project from government /Semi government /Service Provider /BMC etc. in timely. The cost of the same shall be included in the tender bid by the bidder. Documentation for all approvals will be prepared by PMC in conjunction with the Bidder and submitted after BMC approval at each state. All statutory payments to be borne by the bidder on behalf of BMC. **The contractor will not claim any compensation for delay, if any, due to obtaining various NOCs and contractor shall submit notarized undertaking to that effect.**

10. A joint site visit of the prospective bidder shall be organized by PMC if necessary.
11. In the event of 2 or more qualified bidders, quotes for the same rates, the award of the work will be decided by lottery system. Decision of Municipal Commissioner shall be final and binding.
12. Concrete grade minimum M-40 to be used for RCC work in all buildings to be constructed.
13. The scope of work may be changed depending upon the requirement of BMC and as per existing site condition and decision of Municipal Commissioner shall be final and binding after issuing of work order of proposed work.
14. The successful bidder should provide Air conditioned SUV (Scorpio, Zylo, Innova etc.) vehicle to Municipal Corporation staff for day to day site inspection.
15. The successful bidder should provide necessary barricades for plot as well as building under construction for safety as directed by engineer in charge.
16. Following provision is required in each tenement (Refer Detailed Specifications in this tender)
  - One wash basins
  - M.S. powder coated grill for all windows
  - Aluminum sliding window should be of four track with one track for mosquito proof mesh.
  - Kitchen should have granite top with S. S. sink
  - Provision of western type W.C. pan with concealed dual flush system.
17. Successful bidder should provide fire fighting system as per remarks of C.F.O. as per DCPR 2034.
18. During DLP period mentioned in the tender the concerned contractor/bidder should provide agency for annual maintenance for plumbing, common electrification, lift maintenance, attending leakages, water pump etc. DLP for Lift/Fire Fighting/ M&E Works is 10 years Excluding all consumables i.e. tube lights, fans etc. in each tenement.
19. Sewerage treatment plant should be provided by bidder as per DCPR-2034 provision, if required.
20. Structural design prepared by Bidder in coordination with PMC will be vetted by IIT/VJTI at the risk and cost of successful bidder. Project Management Consultant (PMC) M/s Master & Associates are already appointed for the project for day to day

supervision and will provide services as per BMC terms of appointment. Detailed scope of work is attached in tender document.

- ~~21. The tenderer should submit the detail specifications as per the minimum class-I/ premium items which are given in section 10 in C folder of packet C which is mandatory to the bidder/tenderer.~~
22. The various test to be conducted for the material design, structural design, will be as per the prevailing guidelines of BMC at the cost of prospective bidder.
23. The prospective bidder should strictly follow all safety measures during executions of works and as directed by the expert committee.
24. Successful bidder should follow/premium/ first class specification for different item as available on BMC portal.
25. Items to be operated in this tender having minimum Specification is given herewith for preparation of BOQ to be prepared by the tenderer.
26. All items to be operated will be of minimum Class I(Premium) specification available as given above or available in USOR-2023. If item is not available in USOR-2023, then same should be taken from Schedule rate prevailing in schedule to be used by State PWD/CPWD/ Railway/MES of Class I(Premium) material and specification after due approval by competent authority of BMC.
27. A layout should be designed in such a way that there should be separate entrance and exit to the building/ wing having tenements of 407 sq. ft. & 598 sq. ft.
- ~~28. The amount of security deposit may be accepted building wise which will be calculated based on successful bidders proposed cost for development of site. The same shall be submitted within 30 days of handing over of possession of the respective building sites.~~
- ~~29. Bank Guarantee only for a particular building plot in a group which is vacated/handed over is required to be submitted.~~
- ~~30. The charges to be paid to BMC will be waived off. If required, charges paid to BMC will be reimbursed.~~
- ~~31. If the land possession is excessively delayed i.e more than 1 year, successful bidder can reject the development of specific plot without any damages to successful bidder.~~
32. The successful bidder should remove the C&D waste material as per conditions mentioned in circular attached.
33. Each successful bidder should provide Ambient Air Monitoring Control System on each construction site with electronic display.
34. All expenses for power, water and drainage connections will be borne by the bidder.
35. Design and construction to be strictly in accordance with provision of DCPR 2034 Building Regulations BMC
36. FSI Consideration is 4.0 with 35% additional fungible FSI totalling 5.4 for the plot area under consideration of 8746.90 sqm. Adjoining BMC plot area if unutilized may also be considered for full utilization of plot potential.
37. Coordination between '600 Tenements' both successful contractor for Infrastructure connectivities work and other relevant work to be maintained.

**38. Methodology/Technology for proposed project:-**

The construction methodology/ technology should be based on Composite Building/ Prefabrication technology however the prospective bidder shall have to comply with following points:

- a) The proposed construction methodology/ technology i.e. Composite Building/ prefabrication technology should have been tried & tested in the market and should be sustainable and acceptable.
- b) In case required the bidder shall have to arrange site visit of the BMC committee at his cost. The decision of BMC authority in this regard shall be final and binding. The bidder shall have to submit all the approvals certificates from the relevant appropriate authorities with respect to proposed methodology/ technology.
  - c) The bidder should have authorization / rights to use the proposed technology.
  - d) The bidder shall submit all the construction methodology.
  - e) The bidder should submit its bid as per the specification mention in Section 10.
  - f) Building constructed using this technology should have life more than or at least equal to regular RCC buildings i.e. 50 years.

39. Mechanical and Electrical Items:- Work to include items listed in the tender and requirements of electrical supply authorities, electrical inspector and CFO for complete solution as under:-

- a) Internal electrification, lighting and power wiring of tenements, passages, common areas, lobbies, refuge area, parking, terrace, lift machine room, stilt, staircase cabins and all areas of construction inclusive of distribution board, switchgear and cabling.
- b) Lift work as per approved plans.
- c) Water pumping systems with electrical panels, level controllers and metering arrangement.
- d) Electrical meters and supply authority work completion and connectivity.
- e) Telecommunication and cable TV connectivity to all tenements and common areas as required.
- f) Earthing, streetlighting, gate lighting
  - g) CCTV for common areas of building including DBR and 30 days recording history.
  - h) Fire detection and PA system as per CFO guidelines and tender specifications.
  - i) Firefighting system as per CFO guidelines and tender specifications
  - j) DG system as specified
  - k) Safety signage and fire extinguishers.
- l) Solar external lights and rooftop solar system for common area lighting
- m) MGL Gas Pipeline to be provided to each tenement.

## **SECTION-8 BILL OF QUANTITIES**

**Name of work-**

**Subject:- Lumpsum tender (Turnkey) for construction of Residential Tenements (having size of 37.80 sqm & 55.55 sqm each) on plot known as '600 tenement plot' bearing CTS No. 1(pt) & CTS No. 3 (pt) (Sub plot D having area 8746.90 sqm) at Village Deonar, M/E Ward.**

| Sr. No. | Description of Work                                                                                                                                                                                                                                          | Rate/sq.m. in Rs. (Including all taxes) |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| 01      | Lumpsum tender (Turnkey) for construction of Residential Tenements (having size of 37.80 sqm & 55.55 sqm each) on plot known as '600 tenement plot' bearing CTS No. 1(pt) & CTS No. 3 (pt) (Sub plot D having area 8746.90 sqm) at Village Deonar, M/E Ward. |                                         |

**For the purpose of this project, the rate shall be Rs. 48000/ sqmt. BUA as certified by Municipal Architect for the project. The same shall be referred only for financial capacity evaluation and clearance in packet B. This calculation will not be based on actual quote of bidder in packet C.**

**Detailed specification including provisional quantities for area as per statement listed below shall be uploaded in C folder of Packet C. Variation of +/- 10% is allowed. However, no additional payment will be made for the items operated.**

| No. | Description                                                                                                                                                                                                                                                                                                                                                                                                                           | Construction Area (Sqm) |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 1   | Residential Tenements Type III-416 nos of flats with 27 floors-55.55 sqm.carpet area (Building 8)                                                                                                                                                                                                                                                                                                                                     | 40901.5                 |
| 2   | Residential Tenements Type II- 308 nos of flats with 27 floors-37.80 sqm.carpet area (Building 9)                                                                                                                                                                                                                                                                                                                                     | 23969.1                 |
| 3   | Podium for car parking- 5 floors + Stilt inclusive of security room, BMS room, society office and toilet , ladies and gents staff toilet, letter box areas, meter room and all areas stipulated in tender document (22,906.40 parking + 4,581.28 stilt)                                                                                                                                                                               | 27487.68                |
| 4   | Terrace Area incuding OHT (domestic, flushing and firefighting) Staircase cabin 3m ht. and parapet 1.5m                                                                                                                                                                                                                                                                                                                               | 2830.66                 |
| 5   | Landscaping inclusive of earth filling , garden earth filling , waterproffing and water disposal at podium level, lawn and shrub plantation ,irrigation systemand all requisite servives and rain water disposal system.(landscape areas are considered at ground level/ podium top level as per approval drawings                                                                                                                    | 2186.73                 |
| 6   | Internal Roads- of phase II area inclusive of road construction as per tender document, storm water drain, street lights and requisite survives including paver finish as per tender.(cost includes security cabin provision at all gates - 4 gates)                                                                                                                                                                                  | 2736.59                 |
| 7   | Compound Wall for plot boundary between phase I and phase II for 102.4m for height of 1.95m totalling 199.72 sq.m. compound wall will constructed as per tender specification inclusive of requisite foundation and two no of gate of height , width 9m                                                                                                                                                                               | 199.72                  |
| 8   | Substation- Provision of substation is taken in this tender incase specifically insisted on by electrical supply authority. Incase phase I substation is adequate to cater to total power requirements of phase II and supply authorities do not insist on separate substation, the same will not be constructed and cost deducted from overall project cost. (substation if constructed, is to be planned in the RG at ground level) | 360                     |
| 9   | Refuge Area- At all levels as per approval drawings including provision of ladies and gents toilets, drinking water facilities and provision as per tender and municipal approval authority requirements.                                                                                                                                                                                                                             | 1839.08                 |
| 10  | Underground Tank- inclusive of fire fighting storage, domestic and flushing storage, sumps, access ladders ,manholes ,vent pipes, piping and pumping connections ,pumps, electrical connections and pump room complete with all equipment as per tender and CFO requirements                                                                                                                                                          | 341.88                  |
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                       | 102852.94               |

**SECTION 9**  
**SPECIAL DIRECTIONS TO THE BIDDER**



### **SPECIAL DIRECTIONS TO THE BIDDER**

- 1) The contractor should provide barricading to work site in conformity with the fencing item no-R3-CS-RM-71 of USOR 2023 (Building) as directed by engineer for which no payment will be made. No extra payment shall be made for Shoring and Strutting, backing coat plaster for dado, dewatering.
- 2) Barricading shall be provided free of cost as per circular vide u/no. MGC/F/6342 dtd. 05.05.2018 and as per Annexure I, II and III of standard drawings and specifications with slogans and department wise colour codes. No separate payment will be made for dewatering the water seeping in the trenches and foundation pits opened while executing excavation and other foundation works.
- 3) No separate payment will be made for dewatering the water seeping in the trenches and foundation pits opened while executing excavation and other foundation works.
- 4) No extra payment will be made for Shuttering, Shoring, Strutting etc.**
- 5) The Extra/Excess work if any shall be carried out by the successful bidder in the same percentage quoted by him, (i.e. if 'rebate is quoted then at rebated rate' and 'if premium is quoted then at par'.)
- 6) Necessary charges such as royalty charges etc for excavated materials shall be borne by successful contractor by obtaining all necessary permissions from concern government authorities.
- 7) Brihanmumbai Municipal Corporation Mumbai do not have site available for disposal of Debris / Demolition material / Excavated earth. The Contractor shall dispose these materials properly at his own risk & cost as directed by BMC. The contractor shall obtain NOC from SWM department of BMC for debris management plan, final compliance NOC from SWM department after completion of construction, regarding requisite B. G. to be deposited to SWM department, if any.
- 8) Successful bidder shall submit the structural stability certificate issued by registered structural engineer after completion of building.
- 9) Chapter XXI-Miscellaneous, section 171(1) of GST Act, 2017 governs the "Anti Profiteering Measure' (APM) As per the provision of this section, Any reduction in rate of tax on any supply of goods or services or the benefit of input tax credit shall be passed on to the recipient by way of commensurate reduction in prices' Accordingly, the contractor should pass on the complete benefit accruing to him on account of reduced rate or additional input tax credit, to BMC. Further, all the provisions of GST Act will be applicable to the tender
- 10) The bidder shall take due cognizance of guidelines issued u/no.CA/F/P/City/19 Dated 15/09/2017 and u/no.CA/F/P/City/24 Dated 10/10/2017, CA/F/Project/28 Dated 28.03.2023 shall submit irrevocable undertaking in Annexure-A format on Rs.500/- stamp paper enclosed in Draft Tender.
- 11) The bidder / contractor has to procure concrete from BMC approved RMC plants, so as to have uninterrupted concrete supply for carrying out the construction activities.
- 12) Labour Cess will be applicable as per prevailing norms and rules / as per circular under no. CA/FRT/12 Dated 21/06/2012 and shall be borne by successful bidder / contractor.
- 13) Tree Cutting -: on a written directive from BMC, the bidder contractor shall make all arrangements including inspections, obtaining permissions from the local bodies for cutting of the trees and / or transplanting the trees to a predetermined approved location, making pits, providing manure / fertilizers / pesticides, watering till the desired period, all as per the requirements and directions of the concerned governing bodies and BMC, the bidder / contractor shall take all due care in terms of environmental rules and regulations as per the best prevalent practices.

- 14) The Bidder/Contractor having visited the site is understood to have fully understood the scope of works. The Bidder/Contractor has to take maximum care in handling all the utilities (both over-ground and under-ground) that are existing on the site. The Bidder/contractor shall be totally responsible at his own cost and risk for the disposal and /or safe-keeping of the materials so removed, all as per the instructions of BMC.
- 15) Environment, Health and Safety (EHS): The Bidder/Contractor shall adhere strictly to all the norms of the EHS rules and regulations as per the best construction practices. Each and every new worker/officer coming to site shall be properly inducted. The EHS at site is of prime importance and the Bidder/Contractor shall endeavour to maintain the highest standards of environment, health and safety at all times for the entire duration of the project.
- 16) The water supply to the user department shall not be disturbed during execution of the work. Contractor shall make alternate arrangement for providing equivalent capacity tank to store water supply at their own cost.
- 17) Contractor will have to make own arrangement for getting the electrical supply / temporary electric meter on site for fabrication and allied works at their own cost.
- 18) Plumbing and sanitary works will have to be carried out through licensed plumber. All plumbing lines will be provided 50 mm away from wall with spaces as directed. The horizontal and vertical lines should be in line & level.
- 19) After completion of the proposed work, the contractor will have to hand over the site in neat and clean condition for which no extra payment will be made.
- 20) The noise level shall be maintained within the permissible limit in Silence Zone area during the construction activities by the Contractors as per the notification dated 14/02/2000 issued by the Ministry of Environment and Forests and as per BMC circular under no. CE/PD/7788/I dt. 05/11/2008.
- 21) The serviceable material other than the items considered for rebate shall be handed over in the custody of A.E.(Maint) M/E Ward by taking & maintaining the proper inventories of the serviceable materials.
- 22) The contractor shall carry out periodic medical checkup of employees / workers / Labours working under him.
- 23) Unless and until entire building is handed over to the user department the responsibility of security and maintenance lies with the contractor and contractor shall provide his own security and no theft complaints shall be entertained by BMC and no separate watch and ward will be paid for this.
- 24) The Ten years maintenance of M&E works (Except consumable items which will have 1 year DLP) M&E services lies with the contractor, who has carried out the work. However initial two years of maintenance shall be carried out free of cost by the contractor and next eight years is payable as per the pre-approved rates. The contractor shall maintain entire building in functioning state for the period of Ten years. Maintenance period shall start from the completion/commissioning & handing over the project whichever is later. Successful tenderer shall submit a free maintenance guarantee on Rs. 500/- stamp paper for above works including any manufacturing defects / faulty workmanship.
- 25) Bidder to note that recent Government notification regarding Latent Defect Liability u.no. TPB4317/123/CR-32/2017/UD-11 dtd 07/03/2018 is applicable.
- 26) The tenderer should submit indemnity bond on stamp paper of Rs.500/- indemnify BMC. and its officers against any mishap during the progress of work as well as during the defect liability period.
- 27) Prospected Bidder will obtain required NOC's and completion remarks in Coordination with BMC.

- 28) Secured advance is not applicable for any building material. As per BMC practice, payment for MEP works shall be @60% on supply +30% on installation +10% on testing & commissioning, for MEP works executed as per instructions of Engineer in charge in consonance with bar chart and actual progress of the work.
- 29) M&E INSPECTION: Contractor shall arrange visit for factory inspection of the equipment of various services i.e. DG Set, Electrical Panels, Fire Panel, STP, Lifts, CCTV etc. whenever necessary for required no. of persons as specified by Engineer in charge (min. 2 staff) at that time at any location within or outside India with no extra cost with prior permission of Competent authority.
- 30) All the items of the plant/machinery and accessories, fabricated/bought as per specifications and drawings shall be of approved class and are liable for inspection and testing before dispatch. Contractors shall arrange all necessary tests (Routine as well as functional) in the presence of the Engineer at manufacturer's premises or at site in accordance with the appropriate standards. No material shall be dispatched without the consent of the Engineer.
- All the charges towards stage / final inspection until dispatch clearance is given shall be borne by the contractors including to and fro travel, inland transport, lodging and boarding, etc. with no extra cost with prior permission of competent authority. Total cost offered for the tender should be inclusive of the same.
- 31) If for following reasons, the BMC.
- a. Finds that Engineer has committed serious misconduct or has been charged with having committed a criminal action, or
  - b. Has reasonable cause to be dissatisfied with the performance of Engineer, then the Contractor shall, at the Client's written request specifying the grounds therefore, provide as a replacement of a person with qualifications and experience acceptable to the Client.
- The removal and/or replacement under (a) & (b) above shall have no cost implications on BMC and the Contractor shall be solely responsible.
- 32) Policy for governing Extra/Excess shall be as per policy of BMC vide circular no.CA(F)/Projects/31 dated 26.10.2020 or in force is applicable.
- 33) The rates of testing fees of building material at Municipal Testing Laboratory shall be paid as per schedule in force as mentioned in BMC's circular u/no.Ch.Eng./Vig/4150/B dtd 16-03-2020.
- 34) Circular regarding new clause of internal "GRIEVANCE REDRESSAL MECHANISAM" u/no-DMC/CPD/3217 dated 02.03.2019, ChE(V)/436/B dated 18.05.2023 shall be applicable for this work.
- 35) Circular u/no. CA(F)/Project/42 dated 09.02.2021 regarding ASD is applicable to this tender or as per prevailing rules and regulations applicable.

- 36) Circular of Government of India u/no. F.No.6/18/2019-PPD dated 23.07.2020 regarding restrictions on public procurement from bidders of certain countries.
- 37) All concealed pipes to be pressure tested by contractors.
- 38) Typical shop drawings to be prepared for approval of PMC/BMC for all major activities prior to commencement of work
- 39) Contractor's to take abundant measures to provide impervious concrete at first place, however if porousness is observed the same shall be sealed with injection grouting so as to provide complete water tightens.
- 40) The contractor's to de-water the tanks tested as per time scheduled of works, and can dispose the water at his discretion or as directed by Engineer in-charge.
- 41) The contractor's should have in house capability of designing scaffolding/ enabling work or should entrust this assignment through M.O.U. to consultant.
- 42) Since it is a long span structure. Additional cubes shall be casted & tested especially for ensuring adequate strength before de-shuttering.
- 43) Before final finishing on each slab, every slab should be dynamically tested for vibrations & deflection and demonstrate that they are within range.
- 44) The specifications for finishing / architectural / civil items shall be approved by PMC/ M.A. before using on site and shall be in accordance with note of M.A. u/no. Ch.E/MA/2638/Idt. 16.01.2023
- 45) The nos. of trees cutting, transportation & new plantation is tentative, which may vary as per the actual Tree NOC. The new trees shall be planted on subject plot as per norms of Tree Authority. In case, it is not possible to plant the total trees on subject plot, the balance trees shall be planted on plot/site as identified by BMC and all trees shall be maintained as per terms and conditions stipulated in Tree NOC.
- 46) If it is found that firms as described below have tendered separately under different names for the same contract, all such tender(s) shall stand rejected and tender deposit of each such firm / establishment shall be forfeited. In addition such firm / establishment shall be liable for further penal action including blacklisting at the discretion of the Municipal Commissioner.
  - a) If it is found that closely related persons have submitted separate tenders / quotations under different names of firm / establishment but with common address for establishments / firms and/ or if such establishments / firms though they have different addresses are managed or governed by the same person / persons jointly or separately, such tenders shall be liable for action including similar action against the firm / establishment concerned

- b) If after award of contract it is found that the accepted tender violated any of the clauses, the contract shall be liable for cancellation at any time during its currency in addition to penal action against the contractor as well as related firm / establishments.
  - c) The amount quoted shall include provision of all necessary labour & material, plant, equipment, scaffolding and centering as per requirement of the item to be executed completely in all respect as per direction of engineer in charge.
- 47) If any Co-ordination required for site demarcation, it shall be the sole responsibility of Contractor.
  - 48) It is mandatory for the contractors to open a Bank Account in any of the banks approved by BMC for easy and quick payments. All payments under the contract will be made only on this Bank Account through Electronic Clearing System/ RTGS/ NEFT/ CBS.
  - 49) Contractor shall mark Town Hall Datum level on site. No extra payment will be made towards the same.
  - 50) Before commencing execution of work, contractor should ensure at his cost against any damage, loss or injury that may occur to any property including any of their personal and employee of Municipal Corporation by an arising of contract. All insurances to be effected by the successful tenderer shall be taken up with the Director of Insurance, Maharashtra State only.
  - 51) The arbitration dispute, if any, shall be dealt as per the procedure mentioned in circular u/no. MGC/F/8659 dt. 07.09.2019.

**52)Special instructions for appointment of sub contractor for M&E works, firefighting works, HVAC work, Lift works and any other specialized works etc.**

1. If prime bidder wants to execute specialized works like M&E works, firefighting works, HVAC work, Lift works etc., in house, then the bidder has to submit the relevant documents fulfilling the technical capacity criteria of respective work. Also, he has to submit the undertaking on Rs.500/- stamp paper that said work will be carried out by themselves along with annexure-M in packet B.
2. The prime bidder wants to execute specialized works through sub-contractor then he should submit the credentials and Memorandum of Understanding(MOU) on Rs.500/- stamp paper with nominated sub-contractors for Electrical work, Fire fighting work, HVAC work, Lift works and any other specialized works etc, along with annexure-M in packet B.
3. The MOU submitted by Prime bidder to be supported with board resolution of both parties (Prime bidder and sub-contractor) and should be binding to the effect that bidder cannot change sub-contractor without prior to consent of BMC.
4. It will be binding on the prime contractor to get the individual M&E work executed through respective nominated sub-contractor (with MOU) only.
5. Due to any unavoidable circumstances, if it is necessary to change the subcontractor then prime bidder shall pay the charges towards scrutiny of credentials of prospective new sub-contractor and causing inconvenience for the execution of the work, as tabulated below :-

| <b>Amounts of total contract cost (Rs. in Lakh)</b> | <b>Extra charges for 1st time change of sub-contractor (Rs. in Lakh)</b> | <b>Extra charges for 2nd time change of sub-contractor (Rs. in Lakh)</b> | <b>Extra charges for 3rd time change of sub-contractor (Rs. in Lakh)</b> |
|-----------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Upto 1000                                           | 1                                                                        | 2                                                                        | 3                                                                        |
| Above 1000 upto 5000                                | 2                                                                        | 4                                                                        | 6                                                                        |
| Above 5000 to 10000                                 | 3                                                                        | 6                                                                        | 9                                                                        |
| Above 10000                                         | Rs. 3 lakhs + Rs.1 lakhs for each Rs. 5000 lakhs or part thereof         | Rs. 6 lakhs + Rs.2 lakhs for each Rs. 5000 lakhs or part thereof         | Rs. 9 lakhs + Rs.3 lakhs for each Rs. 5000 lakhs or part thereof         |

6. The said charges will be applicable at the time of submission of documents of change in sub-contractor and same will be non-refundable and/or shall not be adjusted towards any other charges.
7. The prospective sub-contractor shall have to fulfil the requisite qualification criteria as mentioned in the tender condition and necessary MOU shall be submitted accordingly.
8. If main bidder or sub-contractor fails to abide MOU, then both the contractor will not be allowed to jointly participate in the further tenders of Dy CE (B.C.) E.S. department for next two years from the date of change of sub-contractor. Prime bidder should appraise the proposed charges and facts to subcontractor before entering in M.O.U

9.

**Annexture-M**

**Undertaking for Sub Contractor by Prime Bidder  
(On Rs.500/- stamp Paper)**

I \_\_\_\_\_ of \_\_\_\_\_ do hereby declared that and undertake as under.

1. I, to the best of my knowledge will carry out the entire M&E work by myself or else will appoint sub contractor fulfilling the eligibility criteria of respective work mentioned in tender.
2. If for any unforeseen reason, there is a change in nominated sub contractor for specialized work i.e. M&E works, fire-fighting works, HVAC work, Lift works and any other specialized works etc., I will pay applicable charges for change in nominated sub-contractor as stated in special conditions to bidders.
3. I am aware that if I fail to abide M.O.U. with nominated sub-contractor then, we (Prime bidder and nominated sub contractor) will not be allowed to jointly participate in the further tenders of Dy CE (B.C.) E.S. Department, for next two years from the date of change of sub contractor. The same has been affirmed by nominated sub contractor.

Signature and stamp of  
Tenderer/Bidder

**SECTION 10**  
**SPECIAL CONDITIONS OF CONTRACT**



## 1. Special Conditions of contract

1. Any addition / alteration / omission required for any work shall be carried out only after obtaining prior approval of the Engineer in writing, in any case no post facto approval will be given.
2. In the event of dispute between parties, the dispute would be subjected to the jurisdiction of Court in Mumbai.
3. The tenderer shall invariably submit this tender notice form together with the specifications, schedule of quantities and rates duly filled in and signed. Any irregularities in this respect shall cause rejection of the quotation.
4. Brihanmumbai Municipal Corporation Mumbai do not have site available for disposal of Debris / Demolition material / Excavated earth. The Contractor shall dispose these materials properly at his own risk & cost as directed by BMC. The contractor shall obtain NOC from SWM department of BMC for debris management plan, final compliance NOC from SWM dept after completion of construction, regarding requisite B.G to be deposited to the SWM dept, if any.
5. The guidelines are issued by BMC vide **circulars u/no. DMC/SWM/67 dtd 06.04.2018, ChE/DP/674/Gen dtd.06.04.2018, ChE/DP/2373/Gen dtd.25.04.2018 for construction debris management**

Guidelines as per above stated Circulars:

- 1) The successful bidder shall deposit Bank Guarantee of requisite amount with user/ execution/SWM department as per the policy circular dtd.06.04.2018 and 25.04.2018 in view of Hon'ble Supreme Court's order dtd.15.03.2018 in regards to disposal or construction debris and SWM generated by Construction activity.
- 2) The successful bidder shall obtain S.W.M. N.O.C. before start of the work. For this, the circular regarding C & D waste at designated unloading site and procedure to be followed for designated unloading site uploaded on [www.mcgm.gov.in](http://www.mcgm.gov.in) website shall be scrupulously followed.
- 3) The successful bidder shall make provision of adequate safe guards in consultation with SWM department for preventing dispersal of particles through air and the construction debris generated shall be deposited in specific sites inspected and approved by BMC.
- 4) The successful bidder shall comply all the conditions and directions specify in the Hon'ble Supreme Court's order i.e. as per S.L.P(CIVIL) no D23708/2017 dtd.15.03.2018 in the case of dumping ground and shall be comply with before starting demolition of structure & / or starting any excavation work /construction work .
- 5) The successful bidder shall handle and transport all the construction and demolition waste to the designated unloading site as per the N.O.C. issued by E.E.(S.W.M.) .
- 6) he successful bidder shall maintain the record of C & D waste generated, transported and unloaded at designated unloading site on the construction site and shall submit this report monthly on AutoDCR system along with unloading challans or receipts (Annexure-A).
- 7) Any breach of condition regarding debris disposal will entitle the cancellation of the work order and the work will be stopped immediately.
- 8) The successful bidder shall revalidate S.W.M. N.O.C. and bank guarantee from time to time.
- 9) The successful bidder shall make all the available records to the monitoring committee for the inspection. In this regards it is to mention that , the requirement of the C & D waste management are monitored along with the compliance in the requisite format of S.W.M in order to notice the breach if any.

- 10) The successful bidder shall note that in the event for any reason whatsoever, the consent given by the disposal site owner/authority is revoke and /or in the event the time limit during which the disposal site was available has expired, the relevant construction activity will be stopped after issuance of a Show-Cause Notice and till such that revised S.W.M. N.O.C. is issued by E.E.(S.W.M.). U.no/ **Dy.Ch.E./SWM/3957/Op/ dtd.28.09.2018 for 'Implementation of the Construction and Demolition Waste Management rules, 2016' will be applicable for the work.**

6. Material

- 1) All material required for the work can be stacked near the site of work in such manner so as not to cause any inconvenience to the pedestrian and vehicular traffic. If no space is available on site then tenderer shall make his own arrangement for stacking of material etc. No extra payment will be made on this account.
- 2) The surpluses excavated material from the site shall be removed free of cost within 24 hrs as directed. The necessary tipping charges at the dumping ground, as applicable shall be borne by the contractor.
- 3) The royalty charges in respect of excavated material shall be paid by the contractors to the collector as and when asked for.
- 4) The contractor should note that during the execution of the work, debris etc dumped on the public streets /places will have to be removed immediately after completion of the work as per direction of the Engineer, failing which the same will be got removed at their risk and cost.

7. Removal of Excavated material

**A.** All the excavated material belongs to the Brihanmumbai Municipal Corporation and therefore shall be the property of the Brihanmumbai Municipal Corporation. It will be mandatory on the part of contractor to use this material in the execution of works under contract if the quality of material available is as per the specification and rest of quality wise on utilised material shall be removed as directed by Engineer.

**B.** Royalty Payment on excavated material as per Statutory requirement:

The contractor shall pay necessary royalties and submit documentary evidences of such payments to the Engineer for his information and records. If and when royalties become payable to the Government Authority on excavated material as per Statutory requirements, the payment shall be made by the contractor. No reimbursement will be made to c/s by BMC.

8. The tenderer shall furnish the names & qualifications of the staff who will be deputed on this work and the names of other officers with their telephone Nos. with whom BMC Engineer may require to get in touch with. The site engineer must have BMC Supervisor License and the copy of license shall be submitted in DyCE(BC)ES's office before commencing the work.
9. Rates of respective items shall be inclusive of all the payments to be made towards Royalty for excavation etc. & no separate payment or reimbursement of payment made towards royalty shall be made & Contractors shall obtain necessary permissions from the Collector Office for the same.
10. The Municipal Commissioner does not bind himself to accept the lowest or any tender.
11. The tenderer shall submit online bid in three packet system i.e. packet –A, B & C
12. The tenderer shall indemnify and keep indemnified the BMC against all damages or compensation payable by law in respect or in consequence, if any, accident or injury to any workman or any other person, woman in employment of the contractor or any other sub-contractor against all claims.

13. Income-Tax Clearance Certificate in original shall be submitted as and when demanded.
14. The percentage quoted shall include the cost of any unforeseen item, connected with the work in question, required for the proper execution and completion of work in all respect. The tenderer will not be reimbursed any taxes/ charges/ octroi/ cess etc. which is in force or in force in future.
15. Tenderer / contractor shall note that quality of material and workmanship shall be first class.
16. The materials used shall confirm to the related ISI specifications as well as BMC specified specification wherever applicable. Directives of Engineer concerned will be binding.
17. General notes in the Unified Schedule of Rate 2023, can be downloaded from <http://portal.mcgm.gov.in> under the Tender Tab.
18. The tenderer / contractor will have to make good, without any extra payment, any damage or loss to the Municipal property/private property while executing the work and need to quote accordingly.
19. General Conditions of Contract for civil works w.e.f. 1.4.2016 and electrical / mechanical as amended upto date shall be applicable to this work unless the same are contradictory to any of the conditions stated in the 'special directions/instructions' to tenderers.
20. The detail description of various items, the units of payment and the rates thereof as mentioned in the Bill of Quantities shall be as per the Unified Schedule of Rates (BMC - USOR 2023 ) and Fair Items.
21. The tenderer shall not withdraw the offer until notice of non-acceptance is communicated to him or 180 DAYS after the date of tender, whichever is earlier.
22. The sequence of work shall be as approved and directed by Engineer-in-charge before starting the work; the contractor shall submit his program of carrying out the work in the form of bar chart / PERT chart for approval of Engineer.
23. Maximum care should be taken to the satisfaction of the Engineer to provide and maintain adequate protection to all electrical and mechanical installations. No extra payment will be made on this account under any circumstances.
24. Contractor will have to make their own arrangement for getting the electric supply on site for fabrication and allied works including installation of temporary meter at their own cost.
25. The contractor shall intimate the concerned authorities before starting the work and execute the work priority fixed by the Engineer. The inventory of serviceable and unserviceable material must be taken jointly with Engineer-in-charge before starting of work.
26. Wherever and whenever necessary as directed by Engineer-in-charge, the un-serviceable materials will have to be removed from the site within the time period as directed. The serviceable material recovered should be deposited to AE(Maint)/ user department.
27. The Corporation will not be responsible for any delay that may be caused due to unforeseen circumstances and no compensation on this account will be paid.
28. Materials brought on the site or debris will not be allowed to be stacked in passages, in the car park area, on road. It shall be stacked as per directions of site in charge.
29. The tenderer / contractor will have to make adequate shielding arrangement by putting necessary hoardings, screen or gunny bags, etc. so as to avoid any accident or nuisance to the occupants during the work without any extra payment. Barricading to be done on all sides to avoid nuisance for a height as per directions of engineer in charge.
30. Plumbing and sanitary works will have to be carried out through licensed plumber. All plumbing lines will be provided 2" away from wall with spaces as directed. The horizontal and vertical lines should be in line & level. Contractor to obtain all necessary permission, remarks, completion from concern department of M.C.G.M. (i.e. 'P' form, Drainage

- Approval / Completion, Water main connection, Dry fittings & street connection, Road work permission / N.O.C. etc.) as required for plumbing, sanitary, drainage & water supply work.
31. Notwithstanding the source, the sand shall be washed using electrically operated sandwashing machine, before use. The use of CRF can be granted as per Circular No. CE/PD/26286 /I of 11.02.11
  32. Municipal Architect/City Engineer reserves the right to delete any item, alter / reduce the scope of the work, no extra claim in this respect will be allowed.
  33. In case of any discrepancy between the plans and B.O.Q items, items to be operated shall be decided by the Engineer and the same shall be binding on the contractors without paying any extra cost.
  34. The articles wherever required should be manufactured within the Greater Mumbai limit to facilitate inspection of the articles.
  35. While carrying out any works, contractor shall take adequate care / safety measures to prevent any accident.
  36. For transport of materials, contractors will have to provide mechanical lift or pulley at their own cost. No extra payment will be made for this arrangement.
  37. The contractors shall take photographs of the work site before commencing, during execution and after completion of work, as directed. The contractor shall take photographs of site as and when directed by Engineer. The Photographs should be so arranged in the Register that original site position and finished site position of the same location should be vis-à-vis. No extra payment will be made for this arrangement. The register should be duly signed by Engineer-in-charge and contractor fortnightly. Failure to abide this condition penalty of Rs. 1000/- per photograph copy will be recovered from the contractor's bill.
  38. The contractor shall have to arrange to carry out the work during night time also as per urgency of the work, at no extra cost with prior permission in writing from competent authority.
  39. After completion of the proposed work, the tenderer/ contractor will have to hand over the site in neat and clean condition for which no extra payment will be made.
  40. On receipt of the work order the contractor will have to erect ready-made site Chowky and Godown in the form of porta cabin/container cabin. The porta cabin/ container shall be preferably of dimensions 12.20 m x 2.50 m with two doors and proper ventilation with A.C. It should have toilet facility. The chowky shall be equipped with PC, printer, internet, fax and all Basic Minimum facilities. The contractor has to provide for site office as per requirement either on his/ her owned place or rented/ leased place. No separate payment will be made for providing the chowky and ancillary items. No permission and space for site chowky will be given / provided on Municipal road/ footpath. The contractor has to make their own arrangement on hire/ lease for site office.
  41. The successful Tenderer shall get himself registered as BMC's vendor by paying necessary Fees to BMC by following due Procedure.
  42. The noise level shall be maintained within the permissible limit in Silence Zone area during the construction activities by the Contractors as per the notification dated 14-02-2000 issued by the Ministry of Environment and Forests. It is mandatory for the contractor to maintain the Noise level during the construction activity within the permissible limits as prescribed by BMC as per circular under no. CE/PD/7788/I dt. 05/11/2008.
  43. The centering shall be insisted only in double stage self-supporting steel scaffolding and M.S pipe adjustable props for which no extra payment will be made.

44. The contractors shall provide proper safety gears to their staff, labours. Failure to provide safety gears as per above clause a penalty of Rs.1000/- per labour per day shall be imposed. The contractor will be fully responsible towards the safety of staff and labours for the entire Contract period. Also, the display of cautionary/danger boards shall be placed at all required locations as directed by engineer in charge at contractor's own cost.
45. Boards of size 4'0" x 3'0" showing all the necessary details should be displayed at site before commencement of work at his own cost. For non-compliance of this condition, penalty of Rs.1000/- per day per site will be imposed on the contractors.
46. Reinforcement bars shall be purchased from BMC approved manufacturers or their authorized dealers. The steel bars shall be embossed with manufacturer's name. Original manufacturer's test certificate shall be insisted for reinforcement bars. Test certificate in photocopy or other form will not be accepted. Engineer's decision regarding make of the steel will be final and binding on the contractors.
47. Tenderers are requested to take cognizance of the child labour act and to take precaution not to deploy child labourer on the work. If child labourers are found deployed on the work, a penalty of Rs.5,000/- on the spot will be imposed on the defaulting contractors and further action as deemed fit will be taken. The contractor shall comply with all industrial & labour rules & regulations, which are in force from time to time. The CONTRACTOR has to follow strictly the government labour acts, which are in force at present & at all future times & all necessary arrangements for labour will have to be made by the CONTRACTOR
48. The work will be treated as completed only after cleaning the site in all respect after completion of the work to the satisfaction of Engineer In charge.
49. On Completion of the work, the contractors shall furnish free of cost 2 sets of final completion drawings in AutoCAD along with the soft copy in CD, showing all the details checked and signed by the Engineer within 2 months of completion of works. The payment of final bill shall be made to the contractors after receipt of above sets. In case the contractors fail to submit the completion drawings, the same shall be got done through outside agency and cost of the same shall be recovered from the contractor along with the penalty of Rs. 5,000/- per drawing (applicable for only identified works.)
50. The contractor shall implement anti-malarial measures for each site during execution of works, in case of failure to implement above measures a penalty of Rs.5000/- per day shall be imposed.
51. The anti-termite treatment before starting of work and after completion of work shall be carried out through reputed Pest Control companies such as PCI.
52. The tenderers should note that the work shall be carried out preferably during day time i.e. from 10.00 am to 05.00 pm only. However in case of emergency, work can be continued during night hours/ Sunday/ holidays after taking permission from competent authority.
53. Even though the Contractor takes all the precautionary measures and by chance any workman is injured or dies, the Contractor will be responsible for settlement of disputes and claims of damages by the workman or his legal heirs.
54. Circular U/No. MGC/F/6342, dt 05.05.2018 in respect of revised guidelines about installation of barricades on work site of BMC will remain effective for this tender.
55. In case of any discrepancy, the Engineer's decision shall be final and binding on the contractors.
56. The quantities mentioned in the Bill of Quantities are indicative quantities. The premium / percentage / above / below / at par quoted by the Contractor in Bill of Quantities are binding to the Contractor irrespective of variation in the quantity to any extent.
57. Rates of items, involving compliance stated in permissions obtained from solid waste management department, conditions of Environmental Clearances from Ministry of



Environment and Forest New Delhi and Precautions to be taken as per requirement of Environment Management plan, shall be inclusive of all such mitigation measures specified in the N.O.C. and no extra shall be payable on this account.

58. The rates quoted in the tender shall include all charges for clearing of site before commencement as well as after scaffolding, watching and lighting by night as well as day including Sundays and Holidays, temporary plumbing and electric supply, protection of the public and safety of adjacent roads, walls, houses, buildings and all other erections, matters or things and the Contractor shall take down and remove any or all such scaffolding, staging, as occasion shall require or when ordered so to do, and fully reinstate and make good all matters and things disturbed during the execution of work and to the satisfaction of the Engineer. The rates quoted shall be deemed to be for the finished work to be measured at site. The rates shall also be firm and shall not be subject to exchange variation, labour conditions, freights or any conditions whatsoever unless otherwise mentioned elsewhere in the Tender documents. Tenderers must include in their rates, Insurance against Fire, Theft, damages by Oriental Insurance Company or any other Government Insurance Company for the period of 5 years from the date of commencement and other levy levied by the Central Government or any State Government or any local authority, if applicable and prevalent during the entire contract period. No claim in respect of sales tax, excise duty, octroi or other taxes, duties or levies whether existing or levied in future shall be entertained by the Employer, unless otherwise mentioned elsewhere in the tender document.
59. Variations in the quantities mentioned in the tender documents can be to any extent (increased or decreased) this clause shall prevail over Clause No. 32 of GCC and escalation in the rates shall not be permitted on this account.
60. The Contractor shall in connection with the works provide and maintain at his own cost all lights, guards, fencing and watching when and where necessary or required by authority for the protection of the works or for the safety and convenience of the public or others. The security & safe keeping of the contractor's material, equipment, tools, etc. shall be the sole responsibility of the contractor.
61. The Contractor shall indemnify and keep indemnified the Employer against all losses and claims for injuries or damage to any person or any property whatsoever which may arise out of or in consequence of the construction of the works and against all claims, demands, proceedings, damages, costs, charges and expenses whatsoever in respect of or in relation thereto.
62. All statutory requirements, Factories Act, ESI, Workmen Compensation, Bonus Act, Provident Fund & Gratuity Act, Industrial Dispute Act, etc., wherever applicable and where contributions / compensation / payments are to be made the same shall be borne by the contractor either during the term of contract or after.
63. All necessary tests for verification of quality of material used for the work; as may be deemed fit shall be carried out by the contractor at his cost. No separate payments will be made on this account.
64. The serviceable materials obtained from existing structures, such as wooden doors & aluminium windows, M.S. Grills, gates etc. shall be removed from site as directed by engineer by taking & maintaining proper inventories of serviceable materials with them.
65. The tenderer shall note that during construction and up till handing over of the entire building contractor should provide their own security force from registered / licensed security agencies. The contractor shall be solely responsible for security of entire building for which no extra payment will be made. No complaints will be entertained afterward for stealing of any articles / appliances.
66. Tenderer(s) should note that if any deposits are required to be paid to Government Agency/Authorities etc, for obtaining any permission from them, an amount equivalent to the said deposit shall be withheld from the contractors bill, till the contractors fulfill all the

conditions laid down by Government Agency/Authorities and obtain certificate to that effect from them and the tenderers shall take cognizance of the same, before quoting for the tender.

67. The successful tenderers shall have to bear the testing charges for the tests carried out by the Municipal Material Testing Laboratory or any other approved testing laboratory as directed by the engineer as per the schedule of fees in force in respect of the various tests carried out by the Municipal Laboratory. The tenderers shall take this into account while quoting their rates. No extra payment on account of this will be made to the contractors.
68. The contractor shall not provide/install site chowky, labourer's hut, godown etc on roads, carriageway/footpath. Any chowky/labourer's hut /site godowns found on footpath/carriageway without a permission from M.C.G.M or any competent authority, shall be fined Rs.1,000/-a day for first month and Rs.10,000/-a day thereafter.
69. All circulars published by BMC from time to time will be applicable to the Contractor.
70.
  - a) The Engineer not below the rank of Assistant Engineer is entitled to impose a penalty of Rs. 2500/- per day/lapse, in accordance to the gravity of default communicated in writing. Penalty amount will be recovered from contractors running bill. This penalty is over and above Penalty mentioned under G.C.C. If it is observed that, the contractor carrying out the work fails to comply with the instructions given by the City engineer/ Director(E.S.&P) / A.M.C./M.C. twice during execution of work, the work will be terminated and will be carried out at the risk and cost of the contractor and penal action will be taken against them. This decision will not be arbitral at all. The above mentioned condition will be in addition to the relevant condition in the General Condition of contract regarding cancellation of contract in full or partly final decision of disputes, difference of claims raised by the contractor or relating to any matter out of contract.
  - b) Other penalties: -
    - In addition to any penal action under the General Conditions of Individual contracts, a registered contractor will be liable under the registration Rule to one or more of the following penalties:

#### (A) Warning / Fine

A contractor will be liable to a warning and /or penalty for

- a) Non-compliance of any provision of the rules.
- b) Failure to comply with any clause or direction under these rules or comply with any conditions of e - Tenders / contracts.
- c) Inadequate progress / performance under the contract.

For the first default of any type mentioned above a warning will be issued. For each subsequent default of the types in (a) & (b) above the minimum penalty will be fine of Rs. 2,500/- while that for a default of the type (c) the minimum penalty will be Rs. 5,000/- for contracts of upto Rs. 25 Lakhs and Rs. 10,000/- for contracts of above Rs. 25 lakhs. Higher Amount of penalty may be levied by the competent authority for reasons to be recorded.

#### B) Demotion

A contractor will be liable to be demoted to a lower class of registration on any of the following grounds:

- a) Specific failure or default in execution of individual works in respect of physical progress for quality of such works.
- b) Deterioration in financial or technical ability /capacity

- c) Repeated failure to fill in e - Tender documents fully and correctly or delay in execution of formal contract documents.
71. It should be clearly understood that, for the purpose of determination of the contract period, the monsoon period will be taken only as from 10 th June to 30'th September, and all works shall be recommenced on 1'st October, irrespective of whether there are intervening festivals and / or rains etc.
  72. The successful tenderer should provide sufficient number of security guards on site for 24 x 7 till the completion of work without any charges & remuneration.
  73. Patent Rights and Royalties – The Contractor shall save harmless and indemnify the Employer from and against all claims and proceedings for or on account of infringement of any Patent rights, design trademark or name of other protected rights in respect of any Plant or Materials and from and against all claims, proceedings, damages, costs, charges and expenses whatsoever in respect thereof or in relation thereto.
  74. All the items which require fixtures, traps, pipes, fittings etc. to make the item functional (e.g. water closet, health faucet, wash basin, urinal, drainage), are inclusive of all such fittings. No extra will be paid for any unforeseen items required for making item functional in any form. The contractor shall quote accordingly in such cases.
  75. Municipal charges required for service connections are to be borne by contractor.
  76. The terms “out of”, “about” and “upto” each imply the maximum size.
  77. The term “providing” means procuring all material as necessary to complete the item into for the purpose intended.
  78. The term “fixing” means the carrying out of appropriate skilled labour including using necessary equipment and tools for the completion of the item into to serve the purpose intended.
  79. The contractor has to exercise due care and caution while working on each item to ensure that other areas in the vicinity are not spoiled, defaced, broken, damaged etc. and if so affected, the contractor shall have to rectify the damage etc and make good the affected portion at his own cost and within the time frame set for the execution of the work.
  80. It will be binding on contractor to pay all the necessary charges as per prevailing policy of M.C.G.M apart from the charges as stated in the Tender.
  81. The contractor shall maintain the following registers during execution of work.

#### **List of Registers**

| Register Code | Name of Register             |
|---------------|------------------------------|
| 1             | Instruction Register         |
| 2             | Daily Progress Register      |
| 3             | Cement Variation Register    |
| 4             | Cement Register              |
| 5             | Material Testing Result File |
| 6             | Photograph File              |
| 7             | Penalty Register             |
| 8             | Correspondence File          |
| 9             | File Containing Drawings     |



|    |                                                                                                                                                               |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10 | Inventory Register                                                                                                                                            |
| 11 | Steel Register                                                                                                                                                |
| 12 | RMC/Concrete Register                                                                                                                                         |
| 13 | Cube Test Register                                                                                                                                            |
| 14 | Contractor's Site Staff Attendance Register                                                                                                                   |
| 15 | Mix design file                                                                                                                                               |
| 16 | Excavation register                                                                                                                                           |
| 17 | Removal Challans and Register (if dumped at Municipal Dumping Ground/ if paid separately)                                                                     |
| 18 | Pour Card Register                                                                                                                                            |
| 19 | Register for inspection during DLP                                                                                                                            |
| 20 | Any Other Registers Required As Per Description Of Items For Any Activity/Material/Quantity For Which Payment is Made Or As Instructed By Engineer In charge. |

82. Contractor shall visit the site & shall quote accordingly considering the site condition.
83. The Engineer / Municipal Architect will have the option to have any of the materials tested to find out whether they are in accordance with the specifications and the Contractor will bear all the expenses for such testing. All bills, vouchers and test certificates which in the opinion of the Engineer in charge, their suitability shall be produced for his inspection when required.
84. The interpretation & decision given by Municipal Architect / Engineer in charge shall be final & binding to contractor for any discrepancies in drawings, description of items of work in BOQ & specification.
85. Plumbing and sanitary works will have to be carried out through licensed plumber. All plumbing lines will be provided 2" away from wall with spaces as directed. The horizontal and vertical lines should be in line & level. Contractor to obtain all necessary permission remarks, completion from concern department of M.C.G.M. (i.e. 'P' form, Drainage Approval / Completion, Water main connection, Dry fittings & street connection, Road work permission / N.O.C. etc.) as required for plumbing, sanitary, drainage & water supply work.  
The work of providing and fixing in position UPVC/SWR, GI pipe of given diameter in any position as per specification shall be carried out in such way that pipe and wall surface will be separated by clamp of at least 100mm depth to avoid direct contact of pipe with wall surface. No extra payment will be made to the contractor in this respect.
86. Various guidelines/directives vide relevant circulars below issued by BMC as mentioned shall be applicable
  - a) DMC/Infra/3732 dt. 13.02.2021 (modified PQC guidelines)
  - b) MGC/F/8659 dt. 07.09.2019 regarding Arbitration clause
  - c) CA/FRT/12 dt. 21.06.2012 regarding Building Construction and other work Cess
  - d) AMC/ES/2700 dt 27.05.2019 undertaking regarding work to be completed within stipulated time period
  - e) CA(F)/Project/42 dt. 09.02.2021 regarding ASD

87. As regards to Clause no. 74 of General Conditions of this tender bid, the same shall be read with circular vide no. MGC/F/8659 dtd 07.09.2019.

• **TESTING OF MATERIAL** –

1. The charges for testing of construction materials shall be as per the rates in force at the time of testing of materials/asphalt mixes and the testing charges shall be borne by the contractor.
  - a) All requests for testing of samples must be made in writing to in duplicate specifying there in the following information (separate memo should be sent for concrete, steel, soil, asphaltic mixes) etc.
  - b) Name of the Work, Work Code No. if any.
  - c) Type of material and tests desired (i.e. grade of cement, date of consignment)
  - d) Identification mark on the sample should be mentioned on the forwarding memo (in case of concrete beams and cubes identification marks, grade of concrete, date of casting, specimen No. should be engraved on concrete. If these details are marked by paint, samples will not be accepted. In case of reinforcement bars, details shall be displayed on label pasted on bars and label must be signed by the officer who has taken the samples.)
  - e) Name and full postal address of the officer to whom the results must be sent.
  - f) Samples for tensile testing of reinforcing bars shall be straight for entire length without bends. The ends of the bars shall be hacksaw cut and not chisel cut. One sample of each diameter bar shall be sent for first test and for retest, two bars shall be sent. The length of the bars shall be 50 cm. for all diameters. Test Certificates (Chemical/Physical tests from manufacturers) will be submitted along with each Lot of Steel.
  - g) Samples that are sent for testing for natural moisture content, shall be forwarded in wax coated packing or sealed airtight bags.
  - h) Undisturbed samples sent in sampling tube shall be wax coated on both open ends.
88. It shall be sole responsibility of the contractor to carry out the total station survey of building premises included in the tender work.
89. The photographs of work sites & works as and when directed by Engineer are to be taken. A new Digital Camera of Min 10 Mega Pixels shall be provided in the site office for the said purpose. The Photographs should be arranged in the Register showing original site position and finished site position of the same location. The register should be duly signed by site-in charge and contractor fortnightly.
90. Quantities of all items provided (i.e. anticipated) in the B.O.Q. may not be required to be executed depending upon the site conditions. The tenderer shall not be entitled for any compensation on this account. Before starting the work, contractor shall consult with the Site Engineer and shall take actual measurements on the site for procurement of material.
91. The contractor shall procure requisite material required for the work from manufacturers with I.S.I. certificates and according to M.C.G.M. specifications/approved list wherever applicable.
92. The RMC works required to be done under the captioned contract shall be got executed with pre-qualified RMC plant by BMC. Preference will be given to contractor using pre-qualified facility by RMCMA; where the facility does not have such pre-qualification, the RMC producers shall get it pre-qualified from BMC in accordance with two QA manuals viz. QC Manual Part I including check list (125 items) and guidelines for QC and QA Part II, submitted by RMCMA. The said manuals are available in the divisional offices for reference.

93. While executing the work, the bidder has to protect the trees as per Urban Trees and paving Guidelines, copy of which is available with the office of Ch.E. (Rds. & Tr.).
94. For all cement concrete works covered under scope of this tender, only ready mix concrete shall be used except nominal mixes wherever specified. On site mixing of concrete (Instead of ready mix concrete) maybe allowed only in cases when the total quantity of RCC/CC does not exceed 5 cum on that particular day with the approval of Engineer Incharge.) However, in such cases the concrete shall be as per mix design and machine mixed. The decision of Engineer Incharge shall be binding on the contractor.
95. In case the controlled concrete to be provided at one place/or on particular day, is of small quantity i.e. less than 10 Cu.m, M10 may be considered as equivalent to 1:3:6, M15 as 1:2:4, M20 as 1:1.5:3. The concrete sample/ cubes for M10, M15, M20 shall be tested for every 100 Cu.m quantity irrespective of individual quantity is less than 10 Cu.m.
96. The contractor will be directed by the Engineer to execute the additional emergency work of excavation, any damaged existing water mains, construction of drainage/ electrical or any other service Chambers, & other related works. The quantum of the work of any item may get reduced or increased to any extent. However, the payment of the work shall be made as per terms and conditions of contract.
97. If concrete is not to be used as structural concrete nominal mix of equivalent strength may be made on site by permission of engineer, not below the Engineer Incharge. However, rebate of Rs 100 per cum shall be taken for non using the ready mix concrete. However, in such cases, the concrete shall be machine mixed.
98. The contractors shall bring the correct size of metal/material required for construction of water bound layers. The contractors will not be allowed to break stones for preparation of material for water bound layers on site.
99. The tenderer shall note that the tie bars if required to be provided by drilling holes to the existing cement concrete as directed the said work shall be done as directed by the engineer without any extra/additional cost to BMC.
100. After completion of work, contractor has to submit detailed plans showing location of work carried out with three reference point and also of any underground services laid.
101. IDLE CHARGES: No idle charges will be entertained on any of the grounds
102. All MOU with specialized contractor to be supported with board resolution of both parties and should be binding to the effect that bidder cannot change the submission without consent of BMC, shall be submitted within 1 month of issue of LOA. This is also applicable to MOU with Prefabrication Manufacturing Facilities.
103. The successful bidder shall submit the details of technical staff appointed for the specialized jobs like Electrical Works, Firefighting works and lift works. (Of which MOU is already submitted in Packet B) within 1 month after issue of LOA failing which penalty amount as decided by Engineers In Charge will be imposed and deducted from the contractor's running bill.
104. Vide MGC/1102 dtd 25.10.2023 and enforcing MPCB from time to time, grievances regarding Air pollution mitigation shall be followed by the contractor on site.

**SECTION 11**  
**GENERAL CONDITIONS OF CONTRACT**

## General Conditions of Contract

### A. General

#### 1. Definitions

1.1 Terms which are defined in the Contract Data are not also defined in the Conditions of Contract but keep their defined meanings. Capital initials are used to identify defined terms.

**The “Contract”** shall mean the tender and acceptance thereof and the formal agreement if any, executed between the Contractor, Commissioner and the Corporation together with the documents referred to therein including these conditions and appendices and any special conditions, the specifications, designs, drawings, price schedules, bills of quantities and schedule of rates. All these documents taken together shall be deemed to form one Contract and shall be complementary to one another.

**The Contract Data** defines the documents and other information which comprise the Contract.

**The “Contractor”** shall mean the individual or firm or company whether incorporated or not, whose tender has been accepted by the employer and the legal successor of the individual or firm or company, but not (except with the consent of the Employer) any assignee of such person.

**The Bidder** is a person or corporate body who has desired to submit Bid to carry out the Works, including routine maintenance till the tender process is concluded.

**The Contractor's Bid** is the completed bidding document submitted by the Contractor to the Employer.

**The “Contract Sum”** means the sum named in the letter of acceptance including Physical contingencies subject to such addition thereto or deduction there-from as may be made under the provisions hereinafter contained.

Note : The contract sum shall include the following –

- In the case of percentage rate contracts the estimated value of works as mentioned in the tender adjusted by the Contractor's percentage.
- In the case of item rate contracts, the cost of the work arrived at after finalisation of the quantities shown in schedule of items / quantities by the item rates quoted by the tenderers for various items and summation of the extended cost of each item.
- In case of lumpsum contract, the sum for which tender is accepted.
- Special discount / rebate / trade discount offered by the tenderer if any and accepted by the Corporation.
- Additions or deletions that are accepted after opening of the tenders.

**The “Contract Cost”** means the Contract Sum plus Price Variation. This cost shall be included in the letter of acceptance.

**A Defect** is any part of the Works not completed in accordance with the Contract.

**The Defects Liability Certificate** is the certificate issued by the Engineer, after the Defect Liability Period has ended and upon correction of Defects by the Contractor.

**Drawings** means all the drawings, calculations and technical information of a like nature provided by the Engineer to the Contractor under the Contract and all drawings, calculations, samples, patterns, models, operation & maintenance manual and other technical information of like nature submitted by the Contractor and approved by the Engineer.

**The Authority** shall mean Brihanmumbai Municipal Corporation Mumbai (BMC)

**The “Employer”** shall mean the Brihanmumbai Municipal Corporation / Municipal Commissioner for Greater Mumbai, for the time being holding the said office and also his successors and shall also include all “Additional Municipal Commissioners, Director (Engineering Services & Projects)” and the Deputy Municipal Commissioner, to whom the powers of Municipal Commissioner, have been deputed under Section 56 and 56B of the Mumbai Municipal Corporation Act.

**The Engineer in-charge** shall mean the Executive Engineer in executive charge of the works and shall include the superior officers of the Engineering department i.e. Dy.Ch.Eng/Ch.Eng. and shall mean and include all the successors in BMC.

**The Engineer's Representative** shall mean the Assistant Engineer, Sub. Engineer/Jr. Engineer in direct charge of the works and shall include Sub Eng./ Jr. Eng of Civil section/ Mechanical section/ Electrical section appointed by BMC. This shall include the project management consultant and his engineering staff appointed for the project.

**The “Engineer”** shall mean the City Engineer / the Hydraulic Engineer / the Chief Engineer / the Special Engineer, appointed for the time being or any other officer or officers of the Municipal Corporation who may be authorized by the commissioner to carry out the functions of the City Engineer / the Hydraulic Engineer / the Chief Engineer / the Special Engineer or any other competent person appointed by the employer and notified in writing to the Contractor to act in replacement of the Engineer from time to time.

**Contractor's Equipment** means all appliances and things of whatsoever nature required for the execution and completions of the Works and the remedying of any defects therein, but does not include plant material or other things intended to form or forming part of the Permanent Works.

**The Initial Contract Price** is the Contract Price listed in the Employer's Letter of Acceptance.

**The Intended Completion Date** is the date on which it is intended that the Contractor shall complete the construction works. The Intended Completion Date is specified in the Contract Data. The Intended Completion Date may be revised only by the Engineer by issuing an extension of time.

**Materials** are all supplies, including consumables, used by the Contractor for incorporation in the Works and works of routine maintenance.

**Plant** is any integral part of the Works that shall have a mechanical, electrical, electronic, chemical, or biological function.

**Routine Maintenance** is the maintenance of activities of the completed structure for five years as specified in the Contract Data.

**The “Site”** shall mean the land and other places including water bodies more specifically mentioned in the special conditions of the tender, on, under in or through which the permanent works or temporary works are to be executed and any other lands and places provided by the Municipal Corporation for working space or any other purpose as may be specifically designated in the contract as forming part of the site.

**Site Investigation Reports** are those that were included in the bidding documents and are reports about the surface and subsurface conditions at the Site.

**“Specification”** shall mean the specification referred to in the tender and any modification thereof or addition or deduction thereto as may from time to time be furnished or approved in writing by the Engineer.

**The Start Date/Commencement Date** is given in the Contract Data. It is the date when the Contractor shall commence execution of the Works. It does not necessarily coincide with any of the Site Possession Dates.

**A Nominated Sub-Contractor** is a person or corporate body who has a Contract with the Contractor to carry out a part of the construction work and/or routine maintenance in the Contract, which includes work on the Site.

**Temporary Works** are works designed, constructed, installed, and removed by the Contractor that are needed for construction or installation of the Works.

**Variation** means a change to the:-

- i) Specification and /or Drawings (if any) which is instructed by the Employer.
- ii) Scope in the Contract which is instructed by the Employer.
- iii) Price in the Contract which is instructed by the Employer.

**The Works**, as defined in the Contract Data, are what the Contract requires the Contractor to construct, install, maintain, and turn over to the Employer. Routine maintenance is defined separately.

**Jurisdiction:** In case of any claim, dispute or difference arising in respect of a contract, the cause of action thereof shall be deemed to have arisen in Mumbai and all legal proceedings in respect of any claim, dispute or difference shall be instituted in a competent court in the City of Mumbai only.

## **2. Interpretation**

2.1 In interpreting these Conditions of Contract, singular also means plural, male also means female or neuter, and the other way around. Headings have no significance. Words have their normal meaning under the language of the Contract unless specifically defined. The Engineer will provide instructions clarifying queries about these Conditions of Contract.

2.2 If sectional completion is specified in the Contract Data, references in the Conditions of Contract to the Works, the Completion Date, and the Intended Completion Date apply to any Section of the Works (other than references to the Completion Date and Intended Completion Date for the whole of the Works).

2.3 The documents forming the Contract shall be interpreted in the following documents: (1) Agreement, (2) Letter of Acceptance, (3) Notice to Proceed with the Work, (4) Contractor's Bid, (5) Contract Data, (6) Special Conditions of Contract Part (7) General Conditions of Contract Part I, (8) Specifications, (9) Drawings, (10) Bill of Quantities, and (11) Any other document listed in the Contract Data.

## **3 . Engineer's Decisions**

3.1 Except where otherwise specifically stated, the Engineer will decide contractual matters between the Employer and the Contractor in the role representing the Employer. However, if the Engineer is required under the rules and regulations and orders of the Employer to obtain prior approval of some other authorities for specific actions, he will so obtain the approval, before communicating his decision to the Contractor.

3.2 Except as expressly stated in the Contract, the Engineer shall not have any authority to relieve the Contractor of any of his obligations under the contract.

## **4. Delegation**

4.1 The Engineer, with the approval of the Employer, may delegate any of his duties and responsibilities to other person(s), except to the Adjudicator, after notifying the Contractor, and may cancel any delegation after notifying the Contractor.

## **5. Communications**

All certificates, notices or instructions to be given to the Contractor by Employer/ Engineer shall be sent on the address or contact details given by the Contractor of Bid. The address and contact details for communication with the Employer/ Engineer shall be as per the details given in Contract Data. Communications between parties that are referred to in the conditions shall be in writing. The Notice sent by facsimile (fax) or other electronic means shall be effective on confirmation of the transmission. The Notice sent by Registered post or Speed post shall be



effective on delivery or at the expiry of the normal delivery period as undertaken by the postal service.

## **6. Subcontracting**

6.1 Unless specifically mentioned in the contract subletting will not be allowed. Subletting, where otherwise provided by the contract shall not be more than 25% of the contract price.

6.2 The Contractor shall not be required to obtain any consent from the Employer for:

- a. The sub-contracting of any part of the Works for which the Subcontractor is named in the Contract;
- b. The provision for labour, or labour component.
- c. The purchase of Materials which are in accordance with the standards specified in the contract.

6.3 Beyond what has been stated in clauses 6.1 and 6.2, if the Contractor proposes sub-contracting any part of the work during execution of the Works, because of some unforeseen circumstances to enable him to complete the Works as per terms of the Contract, the Employer will consider the following before according approval:

- a. The Contractor shall not sub-contract the whole of the Works.
- b. The permitted subletting of work by the Contractor shall not establish any contractual relationship between the sub-contractor and the BMC and shall not relieve the Contractor of any responsibility under the Contract.

6.4 The Engineer should satisfy himself before recommending to the Employer whether

- a. The circumstances warrant such sub-contracting; and
- b. The sub-Contractor so proposed for the Work possesses the experience, qualifications and equipment necessary for the job proposed to be entrusted to him.

## **7. Other Contractors**

7.1 The Contractor shall cooperate and share the Site with other Contractors, public authorities, utilities, and the Employer between the dates given in the Schedule of Other Contractors, as referred to in the Contract Data. The Contractor shall also provide facilities and services for them as described in the Schedule. The Employer may modify the Schedule of Other Contractors, and shall notify the Contractor of any such modification.

7.2 The Contractor should take up the works in convenient reaches as decided by the Engineer to ensure there is least hindrance to the smooth flow and safety of traffic including movement of vehicles and equipment of other Contractors till the completion of the Works.

## **8. Personnel**

8.1 The Contractor shall employ for the construction work and routine maintenance the key personnel including technical personnel named in the Contract Data or other personnel approved by the Engineer. The Engineer will approve any proposed replacement of technical personnel only if their relevant qualifications and abilities are substantially equal to those of the personnel stated in the Contract Data.

8.2 The Contractor's personnel shall appropriately be qualified, skilled and experienced in their respective trades or occupations. The Engineer shall have authority to remove, or cause to be removed, any person employed on the site or works, who carries out duties



incompetently or negligently and persists in any conduct which is prejudicial to safety, health or the protection of the environment.

8.3 If the Engineer asks the Contractor to remove a person who is a member of the Contractor's staff or work force, stating the reasons, the Contractor shall ensure that the person leaves the Site within seven days and has no further connection with the Works in the Contract.

8.4 The Contractor shall not employ any retired Gazetted officer who has worked in the Engineering Department of the BMC /State Government and has either not completed two years after the date of retirement or has not obtained BMC/State Government's permission to employment with the Contractor.

## **9. Employer's and Contractor's Risks**

9.1 The Employer carries the risks which this Contract states are Employer's risks, and the Contractor carries the risks which this Contract states are Contractor's risks.

## **10. Employer's Risks**

10.1 The Employer is responsible for the excepted risks which are (a) in so far as they directly affect the execution of the Works in the Employer's country, the risks of war, invasion, act of foreign enemies, rebellion, revolution, insurrection or military usurped power, civil war, riot, commotion or disorder (unless restricted to the Contractor's employees) and contamination from any nuclear fuel or nuclear waste or radioactive toxic explosive, or (b) a cause due solely to the design of the Works, other than the Contractor's design.

## **11. Contractor's Risks**

11.1 All risks of loss of or damage to physical property and of personal injury and death which arise during and in consequence of the performance of the Contract other than the excepted risks, referred to in clause 11.1, are the responsibility of the Contractor.

## **12. Insurance**

12.1 The Contractor at his cost shall provide, in the joint names of the Employer and the Contractor, insurance cover from the Start Date of handover of plot or commencement of construction activity at site whichever is earlier to the end of Defects Liability Period, in the amounts and deductibles stated in the Contract Data for the following events which are due to the Contractor's risks:

- a) Loss of or damage to the Works, Plant and Materials;
- b) Loss of or damage to Equipment;
- c) Loss of or damage to property (other than the Works, Plant, Materials, and Equipment) in connection with the Contract; and
- d) Personal injury or death.

12.2 Insurance policies and certificates for insurance shall be delivered by the Contractor to the Engineer for the Engineer's approval before the Start Date of handover of plot or commencement of construction activities whichever is earlier. All such insurance shall provide for compensation to be payable in the types and proportions of currencies required to rectify the loss or damage incurred.

12.3 Alterations to the terms of insurance shall not be made without the approval of the Engineer.

12.4 Both parties shall comply with any conditions of the insurance policies.

12.5 If the Contractor does not provide any of the policies and certificates required, the Employer may affect the insurance which the Contractor should have provided and recover the premiums the Employer has paid, from payments otherwise due to the Contractor or if no payment is due, the payment of premiums shall be debt due.

### **13. Site Investigation Reports**

- 13.1 The Contractor, in preparing the Bid, may rely, at his own risk, on any Site Investigation Reports referred to in the Contract Data, supplemented by any other information available to him, before submitting the bid.

### **14. Queries about the Contract Data**

- 14.1 The Engineer will clarify queries on the Contract Data.

### **15. Contractor to Construct the Works and Undertake Maintenance (if specified in the tender)**

- 15.1 The Contractor shall construct, and install and maintain the Works in accordance with the Specifications and Drawings and as per instructions of the Engineer.
- 15.2 The Contractor shall construct the works with intermediate technology, i.e., by manual means with medium input of machinery required to ensure the quality of works as per specifications. The Contractor shall deploy the equipment and machinery as required in the contract.
- 15.3 The Contractor shall take all reasonable steps to protect the environment on and off the Site and to avoid damage or nuisance to persons or to property of the public or others resulting from pollution, noise or other causes arising as a consequence of his methods of operation. During continuance of the contract, the Contractor and his sub-contractors shall abide at all times by all existing enactments on environmental protection and rules made there under, regulations, notifications and byelaws of the State or Central Government, or the

local authorities and any other law, bye-law, regulations that may be passed or notification that may be issued in future by the State or Central Government or the local authority. Salient features of some of the major laws that are applicable are given below:

- The Water (Prevention and Control of Pollution) Act, 1974, this provides for the prevention and control of water pollution and the maintaining and restoring of wholesomeness of water. 'Pollution' means such contamination of water or such alteration of the physical, chemical or biological properties of water or such discharge of any sewage or trade effluent or of any other liquid, gaseous or solid substance into water (whether directly or indirectly) as may, or is likely to, create a nuisance or render such water harmful or injurious to public health or safety, or to domestic, commercial, industrial, agricultural or other legitimate uses, or to the life and health of animals or plants or of aquatic organisms.
- The Air (Prevention and Control of Pollution) Act, 1981, this provides for prevention, control and abatement of air pollution. 'Air Pollution' means the presence in the atmosphere of any 'air pollutant', which means any solid, liquid or gaseous substance (including noise) present in the atmosphere in such concentration as may be or tend to be injurious to human beings or other living creatures or plants or property or environment.
- The Environment (Protection) Act, 1986, this provides for the protection and improvement of environment and for matters connected therewith, and the prevention of hazards to human beings, other living creatures, plants and property. 'Environment' includes water, air and land and the inter-relationship which exists among and between water, air and land, and human beings, other living creatures, plants, micro-organism and property.
- The Public Liability Insurance Act, 1991, This provides for public liability insurance for the purpose of providing immediate relief to the persons affected by accident occurring while handling hazardous substances and for matters connected herewith or incidental thereto. Hazardous substance means any substance or preparation which is

defined as hazardous substance under the Environment (Protection) Act 1986, and exceeding such quantity as may be specified by notification by the Central Government.

**16. The Works and Routine Maintenance to be completed by the Intended Completion Date**

- 16.1 The Contractor may commence execution of the Works on the Start Date and shall carry out the Works and Routine Maintenance, if specified in the tender, in accordance with the Programme submitted by the Contractor, as updated with the approval of the Engineer, and complete them by the Intended Completion Date.

**17. Approval by the Engineer**

- 17.1 The Contractor shall submit Specifications and Drawings showing the proposed Temporary Works to the Engineer, who is to approve them if they comply with the Specifications and Drawings.
- 17.2 The Contractor shall be responsible for design and safety of Temporary Works.
- 17.3 The Engineer's approval shall not alter the Contractor's responsibility for design and safety of the Temporary Works.
- 17.4 The Contractor shall obtain approval of third parties to the design of the Temporary Works, where required.
- 17.5 All Drawings prepared by the Contractor for the execution of the temporary or permanent Works, are subject to prior approval by the Engineer before their use.

**18. Safety**

- 18.1 The Contractor shall be responsible for the safety of all activities on the Site. He shall comply with all applicable safety requirements and take care of safety of all persons entitled to be on the site and the works. He shall use reasonable efforts to keep the site and the works, both during construction and maintenance, clear of unnecessary obstruction so as to avoid danger to the persons and the users.
- Workers employed on mixing asphaltic materials, cement and lime mortars shall be provided with protective footwear and protective goggles.
  - Stone breaker shall be provided with protective goggles and protective clothing and seated at sufficiently safe intervals.
  - The area should be barricaded or cordoned off by suitable means to avoid mishaps of any kind. Power warning signs should be displayed for the safety of the public whenever cleaning works are undertaken during night or day.
  - The workers engaged for cleaning the manholes/sewers should be properly trained before allowing working in the manhole.

**18.2 Safety Programs:-**

- I. Have adequate safety supervision in place to ensure that safety programs set up by the firms/agencies are in compliance with prevalent laws and regulations.
- II. Review safety programs developed by each of the trade firms, prepare and submit a comprehensive safety program.
- III. Monitor day to day implementation of safety procedures.

**18.3 First Aid Facilities: -**

- i. At every work place there shall be provided and maintained, so as to be easily accessible during working hours, first-aid boxes at the rate of not less than one box for 150 contract labour or part thereof ordinarily employed.

- ii. The first-aid box shall be distinctly marked with a red cross on white back ground.
- iii. Adequate arrangements shall be made for immediate recoupment of the equipment when necessary.
- iv. Nothing except the prescribed contents shall be kept in the First-aid box.
- v. The first-aid box shall be kept in charge of a responsible person who shall always be readily available during the working hours of the work place.
- vi. A person in charge of the First-aid box shall be a person trained in First-aid treatment, in the work places where the number of contract labour employed is 150 or more.

## **19. Discoveries**

- 19.1 Anything of historical or other interest or of significant value unexpectedly discovered on the Site shall be the property of the Employer. The Contractor shall notify the Engineer of such discoveries and carry out the Engineer's instructions for dealing with them.

## **20. Possession of the Site**

- 20.1 The Employer shall handover complete or part possession of the site to the Contractor 7 days in advance of construction programme. At the start of the work, the Employer shall handover the possession of at-least 75% of the site free of all encumbrances, the remaining 25 % of the possession as per contractor's construction programme.

## **21. Access to the Site**

- 21.1 The Contractor shall allow access to the Site and to any place where work in connection with the Contract is being carried out, or is intended to be carried out to the Engineer and any person/persons/agency authorized by: a. The Engineer b. The Employer or authorized by the Employer.

## **22. Instructions**

- 22.1 The Contractor shall carry out all instructions of the Engineer, which comply with the applicable laws where the Site is located.
- 22.2 The Contractor shall permit the appointed and/or authorized persons to inspect the Site and/or accounts and records of the Contractor and its subcontractors relating to the performance of the Contract, and to have such accounts and records audited by auditors appointed, if so required. The Contractor's attention is invited to Clause of 'Fraud and Corruption', which provides, inter alia, that acts intended to materially impede the exercise of the inspection and audit rights provided for under the Clause & constitute a obstructive practice subject to contract termination.
- 22.3 Engineer to have power to issue further drawings or instructions:  
The Engineer shall have the power and authority from time to time and at all times to make and issue such further drawings and to give such further instructions and directions as may appear to him necessary or proper for the guidance of the contractor and the good and sufficient execution of the works according to terms of the specifications and Contractor shall receive, execute, obey and be bound by the same, according to the true intent and meaning thereof, as fully and effectually as though the same had accompanied or had been mentioned or referred to in the specification, and the Engineer may also alter or vary the levels or position of nature of works contemplated by the specifications, or may order any of the works contemplated thereby to be omitted, with or without the substitution of any other works in lieu thereof, or may order any work or any portion of work executed or partially executed, to be removed, changed or altered, added if needful, may order that other works shall be substituted instead thereof and difference of expense occasioned by any such diminution or alteration so ordered and directed shall be added to or deducted from the amount of this Contract, as provided under condition

no.10(a) hereinafter.

No work which radically changes the original nature of the Contract shall be ordered by the Engineer and in the event of any deviation being ordered which in the opinion of the Contractor changes the original nature of Contract he shall nevertheless carry it out and disagreement as to the nature of the work and the rate to be paid therefore shall be resolved in accordance with condition no.13d.

The time for completion of the Works, shall be in even of any deviations resulting in additional cost over the contract price being ordered, be extended or reduced reasonably by the Engineer. The Engineer's decision in this case shall be final.

## **B. Time Control**

### **23. Programme**

23.1 Within the time stated in the Contract Data, the Contractor shall submit to the Engineer for approval a Programme, including Environment Management Plan showing the general methods, arrangements, order, and timing for all the activities in the Works, along with monthly cash flow forecasts for the construction of works.

After the completion of the construction works, the programme for the Routine Maintenance Work, showing the general methods, arrangements, order and timing for all the activities involved in the Routine Maintenance will also be submitted by the Contractor to the Engineer for approval if specified in the tender. The programme for Routine Maintenance will be submitted in each year for the period of Maintenance.

23.2 The Contractor shall submit the list of equipment and machinery being brought to site, the list of key personnel being deployed, the list of machinery/ equipments being placed in field laboratory and the location of field laboratory along with the Programme. The Engineer shall cause these details to be verified at each appropriate stage of the programme.

23.3 An update of the Programme shall be a programme showing the actual progress achieved on each activity and the effect of the progress achieved on the timing of the remaining Works, including any changes to the sequence of the activities.

23.4 The Contractor shall submit to the Engineer for approval an updated Programme at intervals no longer than the period stated in the Contract Data. If the Contractor does not submit an updated Programme within this period, the Engineer may withhold the amount stated in the Contract Data from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Programme has been submitted.

23.5 The Engineer's approval of the Programme shall not alter the Contractor's obligations. The Contractor may revise the Programme and submit it to the Engineer again at any time. A revised Programme shall show the effect of Variations and Compensation Events.

### **24. Extension of Time in Contracts:**

Subject to any requirement in the contract as to completion of any portions or portions of the works before completion of the whole, the contractor shall fully and finally complete the whole of the works comprised in the contract (with such modifications as may be directed under conditions of this contract) by the date entered in the contract or extended date in terms of the following clauses:

#### **a) Extension attributable to BMC**

(i) **Extension Due To Modification:** If any modifications have been ordered which in the opinion of the Engineer have materially increased the magnitude of the work,

then such extension of the contracted date of completion may be granted as shall appear to the Engineer to be reasonable in the circumstances, provided moreover that the Contractor shall be responsible for requesting such extension of the date as maybe considered necessary as soon as the cause thereof shall arise and in any case **should not be less than 30 days before the expiry of the date fixed for completion of the works.**

- (ii) **Extension For Delay Due To BMC:** In the event of any failure or delay by the BMC to hand over the Contractor possession of the lands necessary for the execution of the works or to give the necessary notice to commence the works or to provide the necessary drawings or instructions or any other delay caused by the BMC due to any other cause whatsoever, then such failure or delay shall in no way affect or vitiate the contract or alter the character thereof or entitle the contractor to damages or compensation therefore, but in any such case, the BMC may grant such extension(s) of the completion date as may be considered reasonable.

**Note: For extension of time period as governed in (i) and (ii) above, any modifications in design/drawings, specifications, quantities shall be needed to be justified with recorded reasons with approval of Ch. Eng. for not anticipating the same while preparing estimates and draft tender.**

- (b) **Extension Of Time For Delay Due To Contractor:** The time for the execution of the work or part of the works specified in the contract documents shall be deemed to be the essence of the contract and the works must be completed no later than the date(s) / the programme for completion of work as specified in the contract. If the contractor fails to complete the works within the time as specified in the contract for the reasons other than the reasons specified in above as (a.i) and (a.ii), the BMC may, if satisfied that the works can be completed by the contractor within reasonable short time thereafter, allow the contractor for further extension of time as the Engineer may decide. On such extension the BMC will be entitled without prejudice to any other right and remedy available on that behalf, to recover the compensation as governed by Clause 8(e) of GCC.

For the purpose of this Clause, the contract value of the works shall be taken as value of work as per contract agreement including any supplementary work order/contract agreement issued.

**Further, competent authority while granting extension to the currency of contract under Clause (b) of as above may also consider levy of penalty, as deemed fit based on the merit of the case. Also, the reasons for granting extension shall be properly documented.**

## **25. Delays Ordered by the Engineer**

- 25.1 The Engineer may instruct the Contractor to delay the start or progress of any activity within the Works. Delay/delays totaling more than 30 days will require prior written approval of the DMC/AMC.

## **26. Management Meetings**

- 26.1 The Engineer may require the Contractor to attend a management meeting. The business of a management meeting shall be to review the plans for progress of the Works.
- 26.2 The Engineer shall record the business of management meetings and provide copies of the record to those attending the meeting. The responsibility of the parties for actions to be taken shall be decided by the Engineer either at the management meeting or after the management meeting and stated in writing to all those who attended the meeting.



### **C. Quality Control:-**

**Project management consultant is appointed for the project who is**

**Responsible for the quality control of the project as terms of his agreement.**

#### **27.1. Work to be open to Inspection and Contractor or Responsible agent to be present**

All works under or in course of execution or executed in pursuance of the contract shall at all times be open to the inspection and supervision of the Eng-in-charge and his subordinates and the contractor shall at all times during the usual working hours, at all other times, during the usual working hours and at all other times at which reasonable notice of the intention of the Eng-in-charge and his subordinates to visit the works shall have been given to the contractor, either himself be present to receive orders and instruction or have responsible agent duly accredited in writing present for that purpose. Order given to the contractors' duly authorized agent shall be considered to have the same force and effect as if they had been given to the contractor himself.

#### **27.2. Notice To Be Given Before Work Is Covered Up**

The contractor shall give not less than ten days' notice in writing to the Eng-In-Charge or his subordinate in-charge of the work before covering up or otherwise placing beyond the reach of measurement any work in order that the same may be measured and correct dimension thereof taken before the same is so covered up or placed beyond the reach of measurements and shall not cover up or place beyond the reach of measurement any work without the consent in writing of the Eng-In-Charge or his subordinate in-charge of the work, and if any work shall be covered up or placed beyond the reach of measurement, without such notice having been given or consent obtained the same shall be uncovered at the contractors expenses, and in default thereof no payment or allowance shall be made for such work or for the materials with which the same was executed

#### **27.3 Works to be executed in accordance with specifications / drawings / orders etc. :**

The contractor shall execute the whole and every part of the work the most substantial and workman like manner and both has regards material and every other respect in strict accordance with specifications. The contractor shall also confirm exactly, fully and faithfully to the designs, drawings and instructions in writing relating to the work signed by the Engineer In-charge and lodged in his office and to which the contractor shall be entitled to have access for the purpose of inspection at such office, or on the site or work during office hours. The contractor shall be entitled to receive three sets of contract drawings and working drawings as well as one certified copy of the accepted tender along with the work order free of cost.

#### **27.4 Ready Mix Concrete/ Asphalt Mix**

- i) The contractor shall have to arrange Ready Mix concrete (RMC)/Asphalt from RMC/ASPHALT producing plants registered with BMC
- ii) The contractor shall, within 7 days of award of the work, submit a list of at least three RMC/Asphalt producers with details of such plants including details and number of transit, mixers & pumps etc. to be deployed indicating name of owner/company, its location, capacity, technical establishment.

The Engineer-in-charge will reserve right to inspect at any stage and reject the concrete if he is not satisfied about quality of product at the user's end.

- iii) The Engineer-in-charge reserves the right to exercise control over the:-
  - a) Calibration check of the RMC/Asphalt plant.
  - b) Weight and quantity check on the ingredients, water and admixtures added for batch mixing for RMC plants
  - c) Time of mixing of concrete/grade of asphalt.
  - d) Testing of fresh concrete/asphalt mix, recording of results and declaring the mix fit or unfit for use. This will include continuous control on the work ability during production and taking corrective action, if required.

- e) For exercising such control, the Engineer-in-charge shall periodically depute his authorized representative at the RMC/Asphalt plant. It shall be responsibility of the contractor to ensure that all necessary equipment, manpower & facilities are made available to Engineer-in-charge and or his authorized representative at RMC/Asphalt plant.
- f) All required relevant records of RMC/Asphalt mix shall be made available to the Engineer-in-charge or his authorized representative. Engineer-in-charge shall, as required, specify guidelines & additional procedures for quality control & other parameters in respect of material production& transportation of concrete mix which shall be binding on the contractor & the RMC/Asphalt plant. Only concrete as approved in design mix by Engineer-in-charge shall be produced in RMC plant and transported to the site.
- g) The contractor shall have to produce a copy of chalan receipts/SCADA reports/VTIS reports as issued by the RMC/Asphalt plant as a documentary proof in lieu of supply of RMC/Asphalt mix before releasing payment.

## **28. Identifying Defects**

- 28.1 The Engineer-In-Charge shall check the Contractor's work and notify the Contractor of any Defects that are found. Such checking shall not affect the Contractor's responsibilities. The Engineer may instruct the Contractor to search for a Defect and to uncover and test any work that the Engineer considers may have a Defect.
- 28.2 The Contractor shall permit the Employer's technical person(s) to check the Contractor's work and notify the Engineer and Contractor if any defects that are found.

## **29. Tests**

- 29.1 For carrying out mandatory tests as prescribed in the specifications, the Contractor shall establish field laboratory at the location decided by Engineer. The field laboratory will have minimum of equipments as specified in the Contract Data. The contractor shall be solely responsible for:
  - a. Carrying out the mandatory tests prescribed in the Specifications, and
  - b. For the correctness of the test results, whether performed in his laboratory or elsewhere.
- 29.2 If the Engineer instructs the Contractor to carry out a test not specified in the Specification/ Quality Assurance Handbook to check whether any work has a Defect and the test shows that it does, the Contractor shall pay for the test and any samples. If there is no defect, the test shall be a compensation event.

When required by the Engineer-in-charge the contractor(s) shall supply for the purpose of testing samples of all materials proposed to be used in the works. Samples submitted either to govern bulk supplies or required for testing before use shall be in suitable packages to contain them and shall be provided free of charge by the contractor. The cost of testing shall be borne by the contractor even if the result of the sample confirm or do not confirm to the relevant BIS code specifications.

- i. All expenditure required to be incurred for taking the samples conveyance, packing shall be borne by the contractor himself.
- ii. The failed material shall be removed from the site by the contractor at his own cost within a week time of written order of the Engineer-in-charge.



**Setting of Site Laboratories:**

Contractors shall set up a laboratory at site before commencement of work at their cost for performing various tests and at least the following machines and equipments shall be provided therein –

1. Set of Sieves as per I.R.C. /I.S.
2. Compressive Testing Machine(For new works)
3. Oven, Electrically Operated
4. Weighing Balance (20 kg capacity)
5. 3 m straight edge
6. Sieve shaker
7. First Aid Box
8. Measuring Jar (for silt content)
9. Other Machines/apparatus as may be directed by the Engineer
10. Vernier Caliber
11. Level / Theodolite

All the test records shall be maintained in the site office and made available as and when required. The laboratory must be established within 15 days from the date of receipt of the orders from Engineer In charge. On failure to do so, a penalty of Rs 1000/- per day shall be imposed.

The contractor shall install testing equipment at site. The contractor shall ensure and certify the calibration of the equipment so installed and shall maintain the same in working order throughout the period of construction. The contractor shall also provide necessary technically qualified experienced trained staff for carrying out such tests for using such equipment. The tests shall be carried out under the supervision of the Engineer-in-charge. The calibration shall be checked every twelve months as directed by Engineer-in-charge.

**30. Correction of Defects noticed during the Defects Liability Period.**

- 30.1 (a) The Engineer shall give notice to the Contractor of any Defects before the end of the Defects Liability Period, which begins at Completion and ends after five years for structural works and ten years for waterproofing works. The Defects Liability Period shall be extended for as long as Defects remain to be corrected.
- (b) Every time notice of Defect/Defects is given, the Contractor shall correct the notified Defect/Defects within the duration of time specified by the Engineer's notice.
- (c) The Engineer may issue notice to the Contractor to carry out removal of defects or deficiencies, if any, noticed in his inspection, or brought to his notice. The Contractor shall remove the defects and deficiencies within the period specified in the notice and submit to the Engineer a compliance report.

**31. Uncorrected Defects and Deficiencies**

- 31.1 If the Contractor has not corrected a Defect pertaining to the Defect Liability Period under clause and deficiencies in maintenance, to the satisfaction of the Engineer, within the time specified in the Engineer's notice, the Engineer will assess the cost of having the Defect or deficiency corrected, and the Contractor shall pay this amount, on correction of the Defect or deficiency by another agency.

## **D. Cost Control**

### **32. — Variations**

~~The Engineer shall, having regard to the scope of the Works and the sanctioned estimated cost, have power to order, in writing, Variations within the scope of the Works he considers necessary or advisable during the progress of the Works. Such Variations shall form part of the Contract and the Contractor shall carry them out and include them in updated Programme produced by the Contractor. Oral orders of the Engineer for Variations, unless followed by written confirmation, shall not be taken into account.~~

### **33. Payments for Variations**

~~33.1 If rates for Variation items are specified in the Bill of Quantities, the Contractor shall carry out such work at the same rate.~~

~~33.2 The rate for Extra/Excess shall be governed by clause 10.A of Standard General Condition of Contract~~

### **34. Cash Flow Forecasts**

When the Programme is updated, the Contractor shall provide the Engineer with an updated cash flow forecast.

### **35. Payment Certificates**

The payment to the Contractor will be as follows for construction work:

- (a) A bill shall be submitted by the Contractor monthly or before the date fixed by the Engineer In-charge for all works executed in the previous month, and the Engineer In-charge shall take or cause to be taken requisite measurement for the purpose of having the same verified and the claim, so far as it is admissible, shall be adjusted, if possible, within 10 days from the presentation of the bill. If the contractor does not submit the bill within the time fixed as aforesaid, the Engineer In-charge may depute a subordinate to measure up the said work in the presence of the contractor or his duly authorized agent whose counter signature to the measurement list shall be sufficient warrant, and Engineer In-charge may prepare a bill from such list which shall be binding on the contractor in all respects.
- (b) The Engineer shall check the Contractor's fortnightly/monthly statement within 14 days and certify the amount to be paid to the Contractor.
- (c) The value of work executed shall be determined, based on measurements by the Engineer.
- (d) The value of work executed shall comprise the value of the quantities of the items in the Bill of Quantities completed.
- (e) The value of work executed shall also include the valuation of Variations and Compensation Events.
- (f) The Engineer may exclude any item certified in a previous certificate or reduce the proportion of any item previously certified in any certificate in the light of later information.
- (g) The contractor shall submit all bills on the printed forms at the office of Engineer In-charge. The charges to be made in the bills shall always be entered at the rates specified in tender.

### **36. Payments**

36.1 Payments shall be adjusted for deductions for advance payments, retention, security deposit, other recoveries in terms of the Contract and taxes at source, as applicable under the law. The Employer shall pay the Contractor the amounts certified by the Engineer within 15 days of the date of each certificate.

36.2 All sums payable by a contractor by way of compensation under any of these conditions, shall be considered as a reasonable compensation to be applied to the use of BMC

without reference to the actual loss or damage sustained and whether any damage has or has not been sustained.

36.3 No payment shall be made for any work estimated to cost less than Rupees One Thousand till after the whole of work shall have been completed and the certificate of completion given. But in the case of works estimated to cost more than Rs. One Thousand, the contractor shall on submitting a monthly bill therefore be entitled to receive payment proportionate to the part of the work than approved and passed by the Engineer In-charge, whose certificate of such approval and passing of the sum so payable shall be final and conclusive against the contractor. All such intermediate payments shall be regarded as payments by way of advance against the final payments only and not as payments for work actual done and completed and shall not preclude the Engineer In-charge from requiring any bad, unsound, imperfect or unskillful work to be removed or taken away and reconstructed or re-erected nor shall any such payment be considered as an admission of the due performance of the contract or any part thereof in any respect or the offering of any claim not shall it conclude, determine or effect in any other way, the powers of the Engineer In-charge as to the final settlement and adjustment of the accounts or otherwise, or in any other way vary or effect the contract. The final bill shall be submitted by the Contractor within one month of the date fixed for the completion of the work otherwise the Engineer In-charge's certificate of the measurements and of the total amount payable for the work shall be final and binding on all parties.

37. The Contractor shall not be entitled to compensation to the extent that the Employer's interests are adversely affected by the Contractor for not having given early warning or not having cooperated with the Engineer.

### **38. Tax**

Chapter XXI-Miscellaneous, section 171(1) of GST Act, 2017 governs the "Anti Profiteering Measure' (APM) As per the provision of this section, Any reduction in rate of tax on any supply of goods or services or the benefit of input tax credit shall be passed on to the recipient by way of commensurate reduction in prices' Accordingly, the contractor should pass on the complete benefit accruing to him on account of reduced rate or additional input tax credit, to BMC. Further, all the provisions of GST Act will be applicable to the tender.

Circular Under No CA/F/Project/28 dated 28.03.2023 the tenderer shall quote inclusive of all taxes other than GST (Excluding GST), Levies, Deities, Cess etc. as applicable at the Time of bid submission. GST as applicable shall be paid separately on submission of bills / invoices. Input tax credit of GST as available with the Bidder will not be claimed separately by BMC. However while, quoting the rates benefit of input tax credits or exemptions shall be passed on to the BMC by way of equivalent reduction in quoted price.

### **39. Currencies**

All payments will be made in Indian Rupees.

### **40. Liquidated Damages**

Both, the Contractor and the Employer have agreed that it is not feasible to precisely estimate the amount of losses due to delay in completion of works and the losses to the public and the economy, therefore, both the parties have agreed that the Contractor shall pay liquidated damages to the Employer and not by way of penalty, at the rate per week or part thereof stated in the Contract Data for the period that the Completion Date is later than the Intended Completion Date. Liquidated damages at the same rates shall be withheld if the Contractor fails to achieve the milestones prescribed in the Contract Data. However, in case the Contractor achieves the next milestone, the amount of the liquidated damages already withheld shall be restored to the Contractor by adjustment in the next payment certificate. The Employer and the contractor have agreed that this is a reasonable agreed amount of liquidated damage. The Employer may deduct liquidated damages from

payments due to the Contractor. Payment of liquidated damages shall not affect the Contractor's other liabilities.

#### **41. Cost of Repairs**

Loss or damage to the Works or Materials to be incorporated in the Works between the Start Date and the end of the Defects Correction periods shall be remedied by the Contractor at his cost if the loss or damage arises from the Contractor's acts or omissions.

### **E. Finishing the Contract**

#### **42. Completion of Construction and Maintenance**

42.1 The Contractor shall request the Engineer to issue a certificate of completion of the construction of the works, and the Engineer will do so upon deciding that the works is completed. This shall be governed as per clause no.8(g) of Standard General Conditions of Contract.

#### **43. Taking Over**

43.1 The Employer shall take over the works within seven days of the Engineer issuing a certificate of completion of works. The Contractor shall continue to remain responsible for its routine maintenance during the maintenance period if specified in the contract.

#### **44. Final Account**

Final joint measurement along with the representatives of the contractor should be taken recorded and signed by the Contractors. Contractors should submit the final bill within 1 month of physical completion of the work.

If the contractor fails to submit the final bill within 1 month, the BMC staff will prepare the final bill based on the joint measurement within next 3 months.

Engineer's decision shall be final in respect of claims for defect and pending claims against contractors.

No further claims should be made by the Contractor after submission of the final bill and these shall be deemed to have been waived and extinguished. Payment of those items of the bills in respect of which there is no dispute and of items in dispute, for quantities and rates as approved by the Commissioner shall be made within a reasonable period as may be necessary for the purpose of verification etc.

After payment of the final bill as aforesaid has been made, the contractor may, if he so desires, reconsider his position in respect of a disputed portion of the final bills and if he fails to do so within 84 days, his disputed claim shall be dealt with as provided in the contract.

A percentage of the retention money, over and above the actual retention money as indicated below shall be held back from payments till the finalization of final bill to be submitted as per above and will be paid within 30 days of acceptance of the final bill.

| Sr.no. | Amount of Contract Cost | Minimum Payable Amount in final bill               |
|--------|-------------------------|----------------------------------------------------|
| 1      | Upto Rs.5 Crs.          | Rs.10 Lacs or final bill whichever is more         |
| 2      | Upto Rs.25 Crs.         | Rs.1 Crore or final bill amount whichever is more  |
| 3      | UptoRs. 50 Crs.         | Rs.2 Crores or final bill amount whichever is more |
| 4      | Upto Rs.100 Crs.        | Rs.4 Crore or final bill amount whichever is more  |
| 5      | More than Rs.100 Crs..  | Rs.7 Crore or final bill amount whichever is more  |

The contractor have to submit the bill for the work carried out within 15 days from the date of completion of the work to the respective executing department. If the contractor

fails to submit their bills to concerned executing department, penalty or action as shown below will be taken for each delayed bill:-

|                                                                                                               |                                        |
|---------------------------------------------------------------------------------------------------------------|----------------------------------------|
| After 15 days from the date of completion/running bill upto certain date, upto next 15 days i.e. upto 30 days | Equal to 5% of bill amount             |
| Next 15 days upto 45 days from the date of completion/running bill upto specified date                        | Equal to 10% of bill amount            |
| If not submitted within 45 days from the date of completion/ R.A. bill                                        | Bill will not be admitted for payment. |

#### **45. Operating and Maintenance Manuals**

- 45.1 If "as built" Drawings and/or operating and maintenance manuals are required, the Contractor shall supply them by the dates stated in the Contract Data.
- 45.2 If the Contractor does not supply the Drawings and/or manuals by the dates stated in the Contract Data, or they do not receive the Engineer's approval, the Engineer shall withhold the amount stated in the Contract Data from payments due to the Contractor.

#### **46. Termination**

- 46.1 The Employer or the Contractor may terminate the Contract if the other party causes a fundamental breach of the Contract.
- 46.2 Fundamental breaches of Contract shall include, but shall not be limited to, the following:
- a) the Contractor stops work for 30 days when no stoppage of work is shown on the current Programme and the stoppage has not been authorized by the Engineer;
  - b) the Contractor is declared as bankrupt or goes into liquidation other than for approved reconstruction or amalgamation;
  - c) the Engineer gives Notice that failure to correct a particular Defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time determined by the Engineer;
  - d) the Contractor does not maintain a Security, which is required;
  - e) the Contractor has delayed the completion of the Works by the number of days for which the maximum amount of liquidated damages can be paid, as defined in relevant clause.
  - f) the Contractor fails to provide insurance cover as required under relevant clause .
  - g) if the Contractor, in the judgment of the Employer, has engaged in the corrupt or fraudulent practices as defined in GCC in competing for or in executing the Contract.
  - h) if the Contractor fails to set up a field laboratory with the prescribed equipment, within the period specified in the Contract Data; and
  - i) any other fundamental breaches as specified in the Contract Data.
  - j) if the Contractor fails to deploy machinery and equipment or personnel as specified in the Contract Data at the appropriate time.
- 46.3 When either party to the contract gives notice of a breach of contract to the Engineer for a cause other than those listed above, the Engineer shall decide whether the breach is fundamental or not.
- 46.4 Notwithstanding the above, the Employer may terminate the Contract for convenience.

- 46.5 If the Contract is terminated, the Contractor shall stop work immediately, make the Site safe and secure, and leave the Site as soon as reasonably possible.

#### **47. Payment upon Termination**

- 47.1 If the Contract is terminated because of a fundamental breach of Contract by the Contractor, the Engineer shall issue a certificate for value of the work done and materials ordered less liquidated damages, if any, less advance payments received up to the date of the issue of the certificate and less the percentage to apply to the value of the work not completed, as indicated in the Contract Data. If the total amount due to the Employer exceeds any payment due to the Contractor, the difference shall be recovered from the security deposit, and performance security. If any amount is still left un-recovered it will be a debt due from the Contractor to the Employer
- 47.2 If the Contract is terminated at the Employer's convenience, the Engineer shall issue a certificate for the value of the work done, the reasonable cost of removal of Equipment, repatriation of the Contractor's personnel employed solely on the Works, and the Contractor's costs of protecting and securing the Works and less advance payments received up to the date of the certificate, less other recoveries due in terms of the Contract, and less taxes due to be deducted at source as per applicable law.

#### **48. Property**

- 48.1 All Materials on the Site, Plant, Equipment, Temporary Works, and Works shall be deemed to be the property of the Employer for use for completing balance construction work if the Contract is terminated because of the Contractor's default, till the Works is completed after which it will be transferred to the Contractor and credit, if any, given for its use.

#### **49. Release from Performance**

If the Contract is frustrated by the outbreak of war or by any other event entirely outside the control of the Employer or the Contractor, the Engineer shall certify that the Contract has been frustrated. The Contractor shall make the Site safe and stop work as quickly as possible after receiving this certificate and shall be paid for all work carried out before receiving it and for any work carried out afterwards to which a commitment was made.

#### **F) Other Conditions of Contract**

##### **50. Labour**

- 50.1 The Contractor shall, unless otherwise provided in the Contract, make his own arrangements for the engagement of all staff and labour, local or other, and for their payment, housing, feeding and transport.
- 50.2 The Contractor shall, if required by the Engineer, deliver to the Engineer a return in detail, in such form and at such intervals as the Engineer may prescribe, showing the staff and the number of the several classes of labour from time to time employed by the Contractor on the Site and such other information as the Engineer may require.

##### **51. Compliance with Labour Regulations**

(a) During continuance of the Contract, the Contractor and his sub-Contractors shall abide at all times by all existing labour enactments and rules made there under, regulations, notifications and bye laws of the State or Central Government or local authority and any other labour law (including rules), regulations, bye laws that may be passed or notification that may be issued under any labour law in future either by the State or the Central Government or the local authority.

(b) Furthermore, the Contractor shall keep the Employer indemnified in case any action is taken against the Employer by the competent authority on account of contravention of any of the provisions of any Act or rules made there under, regulations or notifications



including amendments. If the Employer is caused to pay or reimburse, such amounts as may be necessary to cause or observe, or for non-observance of the provisions stipulated in the notifications/bye laws/Acts/Rules/regulations including amendments, if any, on the part of the Contractor, the Engineer/Employer shall have the right to deduct any money due to the Contractor including his amount of performance guarantee. The Employer/Engineer shall also have right to recover from the Contractor any sum required or estimated to be required for making good the loss or damage suffered by the Employer.

- (c) The Contractor shall require his employees to obey all applicable laws, including those concerning safety at work.
- (d) The employees of the Contractor and the Sub-Contractor in no case shall be treated as the employees of the Employer at any point of time.

## **52. Drawings and Photographs of the Works**

52.1 The Contractor shall do photography/video photography of the site firstly before the start of the work, secondly mid-way in the execution of different stages of work as required by Engineer In-charge and lastly after the completion of the work. No separate payment will be made to the Contractor for this.

52.2 The Contractor shall not disclose details of Drawings furnished to him and works on which he is engaged without the prior approval of the Engineer in writing. No photograph of the works or any part thereof or plant employed thereon, except those permitted under above clause, shall be taken or permitted by the Contractor to be taken by any of his employees or any employees of his sub-Contractors without the prior approval of the Engineer in writing. No photographs/ Video photography shall be published or otherwise circulated without the approval of the Engineer in writing.

## **53. The Apprentices Act, 1961**

The Contractor shall duly comply with the provisions of the Apprentices Act 1961 (III of 1961), the rules made there under and the orders that may be issued from time to time under the said Act and the said Rules and on his failure or neglect to do so, he shall be subject to all liabilities and penalties provided by the said Act and said Rules.

## **54 Contract Document**

The documents forming the contract are to be taken as mutually explanatory of one another. Unless otherwise provided in the contract, the priority of the documents forming the contract shall be, as follows:

- 1) Contract Agreement (if completed)
- 2) The letter of Acceptance
- 3) The Bid:
- 4) Addendum to Bid; if any
- 5) Tender Document
- 6) The Bill of Quantities:
- 7) The Specification:
- 8) Detailed Engineering Drawings
- 9) Standard General Conditions of Contracts (GCC)
- 10) All correspondence documents between bidder/contractor and BMC.

## **55. Conflict of Interest**

The Applicant shall not have a conflict of interest (the “Conflict of Interest”) that affects

the Bidding Process. Any Applicant found to have a Conflict of Interest shall be disqualified. An Applicant shall be deemed to have a Conflict of Interest affecting the Bidding Process, if

1. A constituent of such Applicant is also a constituent of another Applicant; or
2. Such Applicant has the same legal representative for purposes of this Application as any other Applicant; or
3. Such Applicant, or any Associate thereof has a relationship with another Applicant, or any Associate thereof, directly or through common third party/ parties, that puts either or both of them in a position to have access to each other's information about, or to influence the Application of either or each other; or
4. The Applicant shall be liable for disqualification if any legal, financial or technical adviser of the Authority in relation to the Project is engaged by the Applicant, its Member or any Associate thereof, as the case may be, in any manner for matters related to or incidental to the Project. For the avoidance of doubt, this disqualification shall not apply where such adviser was engaged by the Applicant, its Member or Associate in the past but its assignment expired or was terminated 6 (six) months prior to the date of issue of this TENDER. Nor will this disqualification apply where such adviser is engaged after a period of 3 (three) years from the date of commercial operation of the Project.

#### **56. Applications and costs thereof**

No Applicant shall submit more than one Application for the Project. An applicant applying individually shall not be entitled to submit another application either individually. The Applicant shall be responsible for all of the costs associated with the preparation of their Applications and their participation in the Bid Process. The Authority will not be responsible or in any way liable for such costs, regardless of the conduct or outcome of the Bidding Process.

#### **57. Acknowledgment by Applicant**

It shall be deemed that by submitting the Application, the Applicant has:

- a. made a complete and careful examination of the tender;
- b. received all relevant information requested from the Authority;
- c. accepted the risk of inadequacy, error or mistake in the information provided in the tender or furnished by or on behalf of the Authority relating to any of the matters referred; and
- d. Agreed to be bound by the undertakings provided by it under and in terms hereof.

“The Authority” shall not be liable for any omission, mistake or error in respect of any of the above or on account of any matter or thing arising out of or concerning or relating to the TENDER or the Bidding Process, including any error or mistake therein or in any information or data given by the Authority.

#### **58. Right to accept or reject any or all Applications/ Bids**

Notwithstanding anything contained in this TENDER, “The Authority” reserves the right to accept or reject any Application and to annul the Bidding Process and reject all Applications/ Bids, at any time without any liability or any obligation for such acceptance, rejection or annulment, and without assigning any reasons therefore. In the event that the Authority rejects or annuls all the Bids, it may, in its discretion, invite all eligible Bidders to submit fresh Bids hereunder.

“The Authority” reserves the right to reject any Application and/ or Bid if:

- a. at any time, a material misrepresentation is made or uncovered, or
- b. The Applicant does not provide, within the time specified by the Authority, the supplemental information sought by the Authority for evaluation of the



## Application.

In case it is found during the evaluation or at any time before signing of the Agreement or after its execution and during the period of subsistence thereof including the concession thereby granted by “The Authority”, that one or more of the pre-qualification conditions have not been met by the Applicant, or the Applicant has made material misrepresentation or has given any materially incorrect or false information, the Applicant shall be disqualified forthwith if not yet appointed as the Successful Bidder either by issue of the LOA (Letter of Approval) or entering into of the Agreement, and if the Applicant has already been issued the LOA or has entered into the Concession Agreement, as the case may be, the same shall, notwithstanding anything to the contrary contained therein or in this TENDER, be liable to be terminated, by a communication in writing by “The Authority” to the Applicant, without the Authority being liable in any manner whatsoever to the Applicant and without prejudice to any other right or remedy which the Authority may have under this TENDER, the Bidding Documents, the Concession Agreement or under applicable law.

“The Authority” reserves the right to verify all statements, information and documents submitted by the Applicant in response to the TENDER. Any such verification or lack of such verification by the Authority shall not relieve the Applicant of its obligations or liabilities hereunder nor will it affect any rights of the Authority there under.

### **59 The bid shall be rejected if the bidder-**

- a. Stipulates the validity period less than 180 days.
- b. Stipulates own condition/conditions.
- c. Does not fill and (digital) sign undertaking forms, which are incorporated, in the document.

### **60 Clarifications**

Applicants requiring any clarification on the tender may notify “the Authority” in writing or by fax or e-mail. They should send in their queries before the date specified in the header data. “The Authority” shall Endeavor to respond to the queries within the period specified therein. The responses will be sent by fax and/or e-mail. The Authority will forward all the queries and its responses thereto, to all purchasers of the TENDER without identifying the source of queries.

“The Authority” shall Endeavor to respond to the questions raised or clarifications sought by the Applicants. However, the Authority reserves the right not to respond to any question or provide any clarification, in its sole discretion, and nothing in this Clause shall be taken or read as compelling or requiring the Authority to respond to any question or to provide any clarification, but not later than the date provided in header data.

“The Authority” may also on its own motion, if deemed necessary, issue interpretations and clarifications to all Applicants. All clarifications and interpretations issued by the Authority shall be deemed to be part of the tender. Verbal clarifications and information given by Authority or its employees or representatives shall not in any way or manner be binding on the Authority.

### **61 Amendment of tender**

At any time prior to the deadline for submission of Application, the Authority may, for any reason, whether at its own initiative or in response to clarifications requested by an Applicant, modify the tender by the issuance of Addendum.

Any Addendum thus issued will be sent in writing/ Fax/ Email to all those who have purchased the tender.

In order to afford the Applicants a reasonable time for taking an Addendum into account,

or for any other reason, the Authority may, in its sole discretion, extend the Application Due Date.

### **Preparation and Submission of Application**

#### **62 Language**

The Application and all related correspondence and documents in relation to the Bidding Process shall be in English language. Supporting documents and printed literature furnished by the Applicant with the Application may be in any other language provided that they are accompanied by translations of all the pertinent passages in the English language, duly authenticated and certified by the Applicant. Supporting materials, which are not translated into English, may not be considered. For the purpose of interpretation and evaluation of the Application, the English language translation shall prevail.

#### **63 Format and signing of Application**

The Applicant shall provide all the information sought under this TENDER. The Authority will evaluate only those Applications that are received in the required formats and complete in all respects. Incomplete and /or conditional Applications shall be liable to rejection.

The Applicant will upload bid in One Folder in electronic form which shall contain the scanned certified copies of the documents given below and the documents uploaded has to be digitally signed by the bidder. These copies shall be certified by Practicing Notary approved by the Govt. of Maharashtra or Govt. of India with his stamp, clearly stating his name & registration number, except where original documents are demanded.

#### **64 Marking of Applications**

The Applicant shall submit the Application in the format specified at Appendix-I, together with the documents, upload in folder as “VENDOR” together with their respective enclosures

Applications submitted by fax, telex, telegram shall not be entertained and shall be rejected outright.

#### **65 Late Applications**

Applications received by the Authority after the specified time on the Application Due Date shall not be eligible for consideration and shall be summarily rejected.

#### **66 Confidentiality**

Information relating to the examination, clarification, evaluation, and recommendation for the short-listed qualified Applicants shall not be disclosed to any person who is not officially concerned with the process or is not a retained professional advisor advising the Authority in relation to or matters arising out of, or concerning the Bidding Process. The Authority will treat all information, submitted as part of Application, in confidence and will require all those who have access to such material to treat the same in confidence. The Authority may not divulge any such information unless it is directed to do so by any statutory entity that has the power under law to require its disclosure or is to enforce or assert any right or privilege of the statutory entity and/ or the Authority or as may be required by law or in connection with any legal process.

#### **67 Clarification Of Financial Bids**

To assist in the examination, evaluation and comparison of Bids, the Engineer may, at his discretion, ask any bidder for clarification of his Bid, including breakdown of unit rates. The request for clarification and the response shall be in writing or by

post/facsimile/e-mail. No Bidder shall contact the Engineer on any matter relating to his bid from the time of the bid opening to the time the contract is awarded. Any effort by the Bidder to influence the Engineer in the Engineer's bid evaluation, bid comparison or contract award decisions may result in the rejection of the Bidder's bid.

**68 Inspection of site and sufficiency of tender:**

1. The Contractor shall inspect and examine the site and its surrounding and shall satisfy himself before submitting his tender as to the nature of the ground and subsoil (so far as is practicable), the form and nature of the site, the quantities and nature of the work and materials necessary for the completion of the works and means of access to the site, the accommodation he may require and in general shall himself obtain all necessary information as to risk, contingencies and other circumstances which may influence or affect his tender. He shall also take into consideration the hydrological and climatic conditions.
2. The Employer may make available to the Contractor data on hydrological and sub-surface conditions as obtained by or on his behalf from investigations relevant to the works but the Contractor shall be responsible for his own interpretation thereof. The contractor shall engage his investigating agency with prior approval of the Engineer from the approved list of such agencies by BMC or Govt at his cost subject to satisfaction of the Engineer for faithful compliance and submission of required data regarding such investigation within specified time.
3. The Contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender for the works and of the rates and prices quoted in the schedule of works / items / quantities, or in Bill of Quantities, which rates and prices shall, except as otherwise provided cover all his obligations under the Contract and all matters and things necessary for proper completion and maintenance of the works. No extra charges consequent on any misunderstanding.
4. **Not Foreseeable Physical Obstructions or Conditions:** If, however, during the execution of the Works the Contractor encounters physical obstructions or physical conditions, other than climatic conditions on the Site, which obstructions or conditions were, in his opinion, not foreseeable by an experienced contractor, the Contractor shall forthwith give notice thereof to the Engineer. On receipt of such notice, the Engineer shall, if in his opinion such obstructions or conditions could not have been reasonably foreseen by an experienced contractor, after due consultation with the Contractor, determine:
  - any extension of time to which the Contractor is entitled and
  - The amount of any costs which may have been incurred by the Contractor by reason of such obstructions or conditions having been encountered, which shall be added to the Contract Price.
  - and shall notify the Contractor accordingly. Such determination shall take account of any instruction which the Engineer may issue to the Contractor in connection therewith, and any proper and reasonable measures acceptable to the Engineer which the Contractor may take in the absence of specific instructions from the Engineer. However such costing shall be got approved by the competent authority as governed vide rules prevailing with authority.
5. **Office for the Engineer (Works costing upto Rs.50 Lakhs)**

The Contractor shall at his own cost and to satisfaction of the Engineer provide a small temporary office, at the work-site which will include tables, chairs and lockers for keeping the records. He shall also make necessary arrangements for drinking water, telephone with a pre-requisite of e-governance and electronic communication. These

offices are not to be allowed on public roads without the written instruction of the Engineer. These offices should be preferably located within 50 to 500 m of the worksite. In case the office is more than 500m away from the worksite, the contractor is to provide conveyance for Municipal Staff.

**6. Office for the Engineer (Works costing above Rs.50 lakhs)**

The Contractor shall at his own cost and to satisfaction of the Engineer provide a temporary office at the work-site which will include tables, chairs and lockers for keeping the records. He shall also make necessary arrangements for drinking water, latrines, with doors, windows, locks, bolts and fastenings sufficient for security for the Engineer, and his subordinates, as close to the works from time to time in progress as can be conveniently arranged, and shall at his own cost furnish the office with such chairs, tables, lockers, locks and fastenings as may be required by the Engineer, and no expense of any kind in connection with the erection or upkeep of the offices or fittings shall be borne by the Corporation, but all such work shall be carried out by the Contractor and the expenses thereof defrayed by him. The Contractor shall also make water connections and fit up stand pipe with a bib tap at each office. The latrines and the water connections shall be subject to all the conditions herein elsewhere laid down for temporary water connection and latrines generally with all requisite equipment for e-governance and electronic and digital communication. These offices are not to be allowed on public roads without the written instruction of the Engineer. These offices should be preferably located within 50 to 500 m of the worksite. In case the office is more than 500m away from the worksite, the contractor is to provide conveyance. Also, for staff working beyond working hours the contractor has to provide conveyance.

7. **Permission for provision and removal of office on completion of work:** The tenderer shall obtain permission for provision of site office, cement go-down, store, etc. on payment of necessary cost implication. The cement go-down, Watchman cabins, etc. shall be provided as directed and shall be removed by the Tenderers on completion of the work at their cost. It is binding on the Tenderer to fulfill requirements of Environmental Authorities. The location of such office shall be finalized and got approved from the Engineer before erection/commencement work.
8. **Contractor's office near works:** The Contractor shall have an office near the works at which notice from the Commissioner or the Engineer may be served and shall, between the hours of sunrise and sunset on all working days, have a clerk or some other authorized person always present at such office upon whom such notices may be served and service of any notices left with such clerk or other authorized person or at such office shall be deemed good service upon the Contractor and such offices shall have pre-requisite facilities for e-governance.

**69 Official Secrecy:**

The Contractor shall of all the persons employed in any works in connection with the contract that the India Official Secrets Act 1923 (XIX of 1923) applies to them and will continue to apply even after execution of the said works and they will not disclose any information regarding this contract to any third party. The contractor shall also bring into notice that, any information found to be leaked out or disclosed the concern person as well as the Contractor will be liable for penal action; further the Corporation will be at liberty to terminate the contract without notice.

**70 Subsequent Legislation:**

If on the day of submission of bids for the contract, there occur changes to any National or State statute, Ordinance, decree or other law or any regulation or By-laws or any local or other duly constituted authority or the introduction of any such National or State Statute, Ordinance, decree or by which causes additional or reduced cost to the Contractor, such additional or reduced cost shall, after due consultation with the

Contractor, be determined by the concerned Engineering Department of BMC and shall be added to or deducted from the Contract Price with prior approval of competent authority and the concerned Engineering Department shall notify the Contractor accordingly with a copy to the Employer. BMC reserve the right to take decision in respect of addition/reduction of cost in contract.

#### **71 Patent, Right and Royalties:**

The contractor shall save harmless and indemnify the Corporation from and against all claims and proceedings for or on account of infringement of any Patent rights, design trademark or name of other protected rights in respect of any constructional plant, machine work, or material used for or in connection with the Works or any of them and from and against all claims, proceedings, damages, costs, charges and expenses whatsoever in respect thereof or in relation thereto. Except where otherwise specified, the contractor shall pay all tonnage and other royalties, rent and other payments or compensation, if any, for getting stone, sand, gravel, clay or other materials required for the works or any of them.

#### **72 Payments, Tax and Claims:**

- **The limit for unforeseen claims**

Under no circumstances whatever the contractor shall be entitled to any compensation from BMC on any account unless the contractor shall have submitted a claim in writing to the Eng-in-charge within 1 month of the case of such claim occurring.

- **No interest for delayed payments due to disputes, etc:**

It is agreed that the Brihanmumbai Municipal Corporation Mumbai or its Engineer or Officer shall not be liable to pay any interest or damage with respect of any moneys or balance which may be in its or its Engineer's or officer's hands owing to any dispute or difference or claim or misunderstanding between the Brihanmumbai Municipal Corporation Bombay or its Engineer or Officer on the one hand and the contractor on the other, or with respect to any delay on the part of the Brihanmumbai Municipal Corporation Bombay or its Engineer or Officers in making periodical or final payments or in any other respect whatever.

#### **73 Settlement of Disputes:**

- **Termination of contract for death**

If the Contractor is an individual or a proprietary concern and the individual or the proprietor dies and if the Contractor is a partnership concern and one of the legal representative of the individual Contractor or the proprietor of the proprietary concern and in case of partnership, the surviving partners, are capable of carrying out and completing the contract, the Commissioner shall be entitled to cancel the contract as to its uncompleted part without the Corporation being in any way liable to payment of any compensation to the estate of the deceased Contractor and or to the surviving partners of the Contractor's firm on account of the cancellation of the contract. The decision of the Commissioner that the legal representative of the deceased Contractor or surviving partners of the Contractor's firm cannot carry out and complete the contract shall be final and binding on the parties. In the event of such cancellation the Commissioner shall not hold estate of the deceased Contractor and or surviving partners of the Contractor's firm liable in damages for not completing the contract.

#### **Settlement of Disputes:**

If any dispute or differences of any kind whatsoever other than those in respect of which, the decision of any person is, by the Contract, expressed to be final and binding) shall arise between the Employer and the Contractor or the Engineer and the Contractor in connection with or arising out of the Contract or carrying out of the Works (Whether during the progress of the Works or after their completion and whether before or after the

termination, abandonment or breach of the Contract) it, the aggrieved party may refer such dispute within a period of 7 days to the concerned Addl. Municipal Commissioner who shall constitute a committee comprising of three officers i.e. concerned Deputy Municipal Commissioner or Director (ES&P), Chief Engineer other than the Engineer of the Contract and concerned Chief Accountant. The Committee shall give decision in writing within 60 days. Appeal on the Order of the Committee may be referred to the Municipal Commissioner within 7 days. Thereafter the Municipal Commissioner shall constitute a Committee comprising of three Addl. Municipal Commissioners including Addl. Municipal Commissioner in charge of Finance Department. The Municipal Commissioner within a period of 90 days after being requested to do so shall give written notice of committee's decision to the Contractor. Save as herein provided such decision in respect of every matter so referred shall be final and binding upon both parties until the completion of the works, and shall forthwith be given effect to by the Contractor who shall proceed with the works with due diligence, whether he requires arbitration as hereinafter provided or not. If the Commissioner has given written notice of the decision to the Contractor and no Claim to arbitration has been communicated within a period of 90 days from receipt of such notice the said decision shall remain final and binding upon the Contractor.

#### **74 Arbitration and Jurisdiction:**

If the Commissioner shall fail to give notice of the decision as aforesaid within a period of 90 days after being requested as aforesaid, or if the Contractor be dissatisfied with any such decision, then and in any such case the Contractor may within 90 days after receiving notice of such decision or within 90 days after the expirations of the first named period of 90 days (as the case may be) require that the matter or matters in dispute be referred to arbitration as hereinafter provided. All disputes or differences in respect of which the decision (if any) of the Commissioner has not become final and binding as aforesaid shall be finally settled by

Arbitration as follows:

Arbitration shall be effected by a single arbitrator agreed upon the parties. The arbitration shall be conducted in accordance with the provisions of the Arbitration Act, 1996 or any statutory modifications thereof, and shall be held at such place and time within the limits of Brihan Mumbai as the arbitrator may determine. The decision of the arbitrator shall be final and binding upon the parties hereto and the expense of the arbitration shall be paid as may be determined by the arbitrator. Performance under the Contract shall, if reasonably be possible, continued during the arbitration proceedings and payment due to the Contractor by the Employer shall not be withheld unless they are the subject matter of arbitration proceedings. The said arbitrator shall have full power to open up, review and revise any decision, opinion, direction, certification or valuation of the Commissioner and neither party shall be limited in the proceedings before such arbitrator to the evidence or arguments put before the Commissioner for the purpose of obtaining his said decision. No decision given by the Commissioner in accordance with the foregoing provisions shall disqualify him from being called as a witness and giving evidence before the arbitrator on any matters whatsoever relevant to the disputes or difference referred to the arbitrator as aforesaid. All awards shall be in writing and for claims equivalent to 5,00,000 or more such awards shall state reasons for amounts awarded. The expenditure of arbitration shall be paid as may be determined by arbitrator.

In case of any claim, dispute or difference arising in respect of a contract, the cause of action thereof shall be deemed to have arisen in Mumbai and all legal proceedings in respect of any claim, dispute or difference shall be instituted in a competent court in the City of Mumbai only.



i) In case of a contract where the contract price and/or contract value is less than Rs 5,00,00,000/- (Rupees Five Crore only), any dispute arising out of or in connection with this contract, including any question regarding its existence, validity or termination shall be referred to a mutually agreed arbitral tribunal in accordance with the Arbitration and Conciliation Act, 1996 (Amended up to date). The arbitral tribunal shall consist of a sole arbitrator, as mutually agreed upon by the parties and the said dispute shall be finally resolved by the said arbitral tribunal. The decision of the arbitral tribunal shall be in writing (with reasons) and which will be final and binding upon the parties hereto and the expenses of the arbitration shall be paid as may be determined by the arbitral tribunal. The seat of the arbitration shall be Mumbai. The venue of arbitration shall be within the limits of Brihan Mumbai. The language of the arbitration shall be English.

If the parties fail to appoint mutually agreed arbitral tribunal, within the period of 30 days from the date of application seeking arbitration in the dispute, the arbitral tribunal shall be appointed by the recognized arbitral institution i.e. Mumbai Centre for International Arbitration (approved by Government of Maharashtra under G.R. No ARP/Case No.1/2017/D-19 Dated 28-02-2017) as per the Arbitration Rules of the Mumbai Centre for International Arbitration then in force ("MCIA Rules").

ii) In case of a contract where the contract price and/or contract value is Rs 5,00,00,000/- (Rupees Five Crore only) or more, any dispute arising out of or in connection with this contract, including any question regarding its existence, validity or termination shall be referred to and finally resolved by the recognized Arbitral Institution i.e. Mumbai Centre for International Arbitration (approved by Government of Maharashtra under G.R. No ARP/Case No.1/2017/D-19 Dated 28-02-2017) as per the Arbitration Rules of the Mumbai Centre for International Arbitration then in force ("MCIA Rules"). The arbitral tribunal shall consist of a sole arbitrator. The seat of the arbitration shall be Mumbai. The language of the arbitration shall be English. In either case, the law governing this Arbitration agreement and the contract shall be Indian Law.

## **75 Copyright**

The copyright of all drawings and other documents provided by the Contractor under the contract shall remain vested in the Contractor or his sub-contractors as the case may be. The employer shall have a license to use such drawings and other documents in connection with the design, construction, operation, maintenance of the works. At any time the Employer shall have further license without additional payment to the Contractor to use any such drawings or documents for the purpose of making any improvement of the works or enlargement or duplication of any part thereof, provided that such improvement, enlargement, or duplication by itself or in conjunction with any other improvements, enlargements or duplications already made in accordance with the further license does not result in the duplication of the whole works.

**76 Receipts to be signed in firm's name by any one of the partners:**

Every receipt for money which may become payable or for any security which may become transferable to the Contractor under these present shall, if signed in the partnership name by any one of the partners, be a good and sufficient discharge to the Commissioner and Municipal Corporation in respect of the money or security purporting to be acknowledged thereby, and in the event of death of any of the partners during the pendency of this contract, it is hereby expressly agreed that every receipt by any one of the surviving partners shall, if so signed as aforesaid, be good and sufficient discharge as aforesaid provided that nothing in this clause contained shall be deemed to prejudice or effect any claim which the Commissioner or the Corporation may hereafter have against the legal representatives of any partners so dying or in respect of any breach of any of the conditions thereof, provided also that nothing in this clause contained shall be deemed prejudicial or affect the respective rights or obligations of the Contractors and of the legal representatives of any deceased Contractors interest.

**77 Proprietary data**

All documents and other information supplied by the Authority or submitted by an Applicant to the Authority shall remain or become the property of the Authority. Applicants are to treat all information as strictly confidential and shall not use it for any purpose other than for preparation and submission of their Application. The Authority will not return any Application or any information provided along therewith.

**78 Correspondence with the Applicant**

Save and except as provided in this TENDER, the Authority shall not entertain any correspondence with any Applicant in relation to the acceptance or rejection of any Application.

**79 Price Variation Clause- Price Variation shall not be applicable for this contract**

~~The Contractor shall be reimbursed or shall refund to the Corporation as the case may be the variation in the value of the work carried out from time to time, depending on whether the prices of material and labour as a whole rise or fall, and the method adopted for such computations shall be as given below, it being clearly understood that the contractor shall have no claim for being reimbursed on the ground that the price of a particular material or group of materials have risen beyond the limits of the presumptions made in the following paras, however, no price variations shall be made applicable for contracts upto 12 months:~~

~~A) Controlled materials: Price variations shall be permitted in respect of these materials the price level of which is controlled by the Government or its agency. The rate ruling on the date of submission of the tender shall be considered as the basic price of such material for adjustment. Any variation in this rate shall be considered for reimbursement to the contractor or refund to be claimed from the contractor as the case may be. The contractor~~



shall, for the purpose of adjustment submit in original the relevant documents from the suppliers.

B) ~~Labour and other materials: For the purpose of this contract and for allowing reimbursement of refund on account of variation of prices of (i) labour, and (ii) materials other than materials mentioned in A above, computation will be based on the formula enunciated below which is based on the presumptions that :~~

- ~~i) The general price level of labour rises or falls in proportion to the rise or fall of consumer price index number 9 (general) for working class in Mumbai.~~
- ~~ii) The general price level of materials rises or falls in proportion to rise or fall of whole sale price index as published by 'Economic Adviser to Govt. of India'.~~
- ~~iii) And that the component of labour is to the extent of 30 percent of 88 percent and the component of materials is to the extent of 70 percent of 88 percent of the value of the work carried out. The remaining 12 percent being the presumptive profit of the contractor. a) Formula for Labour component:~~

$$VL = \frac{(0.88 R) \times 30}{100} \times \frac{(I - IO)}{IO}$$

~~b) Formula for Material component:~~

$$VM = \frac{(0.88 R \times 70 - C) \times (W - WO)}{100 - WO}$$

~~Where—~~

~~VL = Amount of price variation to be reimbursed or claimed as refund on account of general rise or fall of index referred to above.~~

~~I = Consumer Price Index number of working class for Mumbai (declared by the Commissioner of Labour and Director of Employment, Mumbai) applicable to the period under reference (base year ending 2011-12 as 100 i.e. new series of indices).~~

~~IO = Consumer price index number for working class for Mumbai (declared by the Commissioner of labour and Director of Employment, Mumbai) prevailing, on the day of 28 days prior to the date of submission of the tender.~~

~~VM = The amount of price variation to be reimbursed or claimed as refund on account of general rise or fall of wholesale price index for period under reference.~~

~~W = Average wholesale price index as published by Economic Adviser to Govt. of India applicable to the period under reference.~~

~~WO = Wholesale price index as stated above prevailing on the day of 28 days prior to the date of submission of the tender.~~

~~R = Total value of the work done during the period under reference as recorded in the Measurement Book excluding water charges and sewerage charges but including cost of excess in respect of item upto 50 percent~~

~~C = Total value of Controlled materials used for the works as recorded in Measurement Book and paid for at original basic rate plus the value of materials used.~~

- ~~i) The quantity of the Controlled material adopted in working out the value of 'C' shall be inclusive of permitted wastages as / if mentioned in specifications.~~
- ~~ii) The basic rate for the supply of controlled material shall be inclusive of all the components of cost of materials excluding transport charges incurred for bringing the material from place of delivery to the site.~~

~~Computations based on the above formula will be made for the period of each bill separately and reimbursement will be made to (when the result is plus) and refund will claimed from (when the result is minus) the contractor's next bill. The above formulae will be replaced by the formulae in Annexure I as and when mentioned in special conditions of contract~~

~~The operative period of the contract for application of price variation shall mean the period commencing from the date of commencement of work mentioned in the work order and ending on the date when time allowed for the work order and ending on the date when time allowed for the work specified in the contract for work expires, taking into consideration, the extension of time, if any, for completion of the work granted by Engineer under the relevant clause of the conditions of contract in cases other than those where such extension is necessitated on account of default of the contractor.~~

~~The decision of the Engineer as regards the operative period of the contract shall be final and binding on the contractors.~~

~~iii) Where there is no supply of controlled items to contractor the component 'C' shall be taken as zero.~~

~~C) Adjustment after completion: If the Contractor fails to complete the works within the time for completion adjustment of prices thereafter until the date of completion of the works shall be made using either the indices or prices relating to the prescribed time for completion, or the current indices or prices whichever is more favorable to the employer, provided that if an extension of time is granted, the above provision shall apply only to adjustments made after the expiry of such extension of time.~~

~~D) Price variation will be calculated similarly and separately for extra items and / or excess quantities and provisional sums calculated under Sub Clause 10 (b)A (i)&(ii) and Sub Clause 10 (b) B(ii) based on the above formula/formulae in Annexure I as and when mentioned in Special conditions of contract; IO and WO being the indices applicable to the date on which the rates under Sub Clause 10 (a)A (i)&(ii) and Sub Clause 10 (a) B(iii) are fixed. No price variation shall be admissible for FAIR items created during execution.~~

**80. Maximum Price Variation shall be as follows:**

| Time Period of Project       | Maximum limit of Price Variation |
|------------------------------|----------------------------------|
| Up to 12 months              | No variation allowed             |
| Above 12 months to 24 months | No Limit As per actuals          |
| Above 24 months              | No Limit As per actuals          |

**\*Approval of AMC/MC shall be obtained before invitation of tender in case of any changes in above.**

**Note: 1) The extension in time period for the projects originally estimated including monsoon results in change of price variation slabs as mentioned above i.e. from first slab to second slab or from second slab to third slab, then the maximum limit of original slab will prevail.**

**2) Operative period shall mean original or extended time period of contract.**

**For example:**

| <b>Extension of Time period</b>                                                                                   | <b>Maximum Price Variation</b> |
|-------------------------------------------------------------------------------------------------------------------|--------------------------------|
| If original period of 11 months <b>including</b> monsoon extends to 16. The operative period will be 11+5 months. | No variation allowed           |
| If original period of 11 months <b>excluding</b> monsoon extends to 16. The operative period will be 11+5 months. | No Limit As per actuals        |

**Price Variation during Extended Period of Contract:**

**(i) — Extension Due To Modification & Extension for delay due to BMC:**

The price variation for the period of extension granted shall be limited to the amount payable as per the Indices. In case the indices increases or decreases, above/below the indices applicable, to the last month of the original or extended period vide clause 8(l)(a)(i) and (ii) of standard GCC

**(ii) — Extension Of Time For Delay Due To Contractor:**

(a) The price variation for the period of extension granted shall be limited to the amount payable as per the Indices in case the indices increase, above the indices applicable, to the last month of the original completion period or the extended period vide above clause 8(l)(a)(i) and (ii) of standard GCC.

(b) The price variation shall be limited to the amount payable as per the indices, in case the indices decrease or fall below the indices applicable, to the last month of original / extended period of completion period vide above clause 8(l)(b) of standard GCC, then lower indices shall be adopted.

**(iii) Extension of Time For Delay due to reasons not attributable to BMC and Contractor (Reference Cl.8(d) of Standard GCC):**

The price variation for the period of extension granted shall be limited to the amount payable as per the Indices in case the indices increases or decreases, above/below the indices applicable, to the last month of the original period.

**81. Payment:**

**Interim Payment :**

- i) Interim bills shall be submitted by the Contractor from time to time (but at an interval of not less than one month) for the works executed. The Engineer shall arrange to have the bill s verified by taking or causing to be taken, where necessary, the requisite measurement of work.
- ii) Payment on account for amount admissible shall be made on the Engineer certifying the sum to which the Contractor is considered entitled by way of interim payment for all the work executed, after deducting there from the amount already paid, the security deposit / retention money and such other amounts as may be deductible or recoverable in terms of the contract.
- iii) On request, the contractor will be paid upto 75 percent of the value of the work carried out as an adhoc payment in the first week of next month after deducting there from recoveries on account of advances, interest, retention money, income tax etc. The balancepayment due will be paid thereafter.

- iv) No interim payment will be admitted until such time the Contractor have fully complied with the requirement of the Condition no.8 (g) and 8 (h) concerning submission and approval of Network Schedule for the works, as detailed in Condition 8 (h). A fixed sum shall be held in abeyance at the time of next interim payment for non-attainment of each milestone in the network and shall be released only on attainment of the said milestone.
- v) An interim certificate given relating to work done or material delivered may be modified or corrected by a subsequent interim certificate or by the final certificate. No certificate of the Engineer supporting an interim payment shall of itself be conclusive evidence that any work or materials to which it relates is / are in accordance with the contract.

## **82 Banning/De-Registration of Agencies of Construction works in BMC**

- **The regulations regarding Demotion/ Suspension Banning for specific period or permanently / De-Registration shall be governed as per the respective condition in Contractor Registration Rules of BMC.**

## **83. JOINT VENTURE:-**

**In case Joint venture is allowed for this tender, the guidelines for JV as follows shall be incorporated in the Tender Document :**

- a) Joint Venture should be allowed only when the number of identifiable different works is more than one and/or the estimated cost of tender is **more than Rs.100 Crore**. JV shall also be allowed for complex technical work below Rs.100 Crores with the approval of concerned AMC
- b) Separate identity/name shall be given to the Joint Venture firm.
- c) Number of members in a JV firm shall not be more than three in normal circumstances, if the work involves only one discipline (say Civil or Electrical). If number of members in JV is required to be more than three, then approval of concerned AMC needs to be sought.
- d) A member of JV firm shall not be permitted to participate either in individual capacity or as a member of another JV firm in the same tender.
- e) The tender form shall be purchased and submitted in the name of the JV firm or any constituent member of the JV.
- f) Normally EMD shall be submitted only in the name of the JV and not in the name of constituent member. However, EMD in the name of lead partner can be accepted subject to submission of specific request letter from lead partner stating the reasons for not submitting the EMD in the name of JV and giving written confirmation from the JV partners to the effect that the EMD submitted by the lead partner may be deemed as EMD submitted by JV firm.
- g) One of the members of the JV firm shall be the lead member of the JV firm who shall have a majority (at least 51%) share of interest in the JV firm. The other members shall have a share of not less than 20% each in case of JV firms with up to three members and not less than 10% each in case of JV firms with more than three members. In case of JV firm with foreign member(s), the lead member has to be an Indian firm with a minimum share of 51%. If JV is of 2 partners, lead partner will have 51% of the experience required.
- h) A copy of Letter of Intent or Memorandum of Understanding (MoU) executed by the JV members shall be submitted by the JV firm along with the tender. The complete details of the members of the JV firm, their share and responsibility in the JV firm etc. particularly with reference to financial technical and other obligations shall be furnished in the agreement.

i) Once the tender is submitted, the agreement shall not be modified/alterd/terminated during the validity of the tender. In case the tenderer fails to observe/comply with this stipulation, the full Earnest Money Deposit (EMD) shall be forfeited. In case of successful tenderer, the validity of this agreement shall be extended till the currency of the contract expires.

j) Approval for change of constitution of JV firm shall be at the sole discretion of the BMC. The constitution of the JV firm shall not be allowed to be modified after submission of the tender bid by the JV firm except when modification becomes inevitable due to succession laws etc. and in any case the minimum eligibility criteria should not get vitiated. In any case the Lead Member should continue to be the Lead Member of the JV firm. Failure to observe this requirement would render the offer invalid.

k) Similarly, after the contract is awarded, the constitution of JV firm shall not be allowed to be altered during the currency of contract except when modification becomes inevitable due to succession laws etc. and in any case the minimum eligibility criteria should not get vitiated. Failure to observe this stipulation shall be deemed to be breach of contract with all consequential penal action as per contract condition.

l) On award of contract to a JV firm, a single Performance Guarantee shall be required to be submitted by the JV firm as per tender conditions. All the Guarantees like Performance Guarantee, Bank Guarantee for Mobilization advance, machinery Advance etc. shall be accepted only in the name of the JV firm and no splitting of guarantees amongst the members of the JV firm shall be permitted.

m) On issue of LOA, an agreement among the members of the JV firm (to whom the work has been awarded) has to be executed and got registered before the Registrar of the Companies under Companies Act or before the Registrar / Sub-Registrar under the Registration Act, 1908. This agreement shall be submitted by the JV firm to the BMC before signing the contract agreement for the work. (This agreement format should invariably be part of the tender condition). In case the tenderer fails to observe/comply with this stipulation, the full Earnest Money Deposit (EMD) shall be forfeited and other penal actions due shall be taken against partners of the JV and the JV. This joint venture agreement shall have, inter-alia, following clauses:-

i. **Joint and several liability** - The members of the JV firm to which the contract is awarded, shall be jointly and severally liable to the Employer (BMC) for execution of the project in accordance with General and Special conditions of the contract. The JV members shall also be liable jointly and severally for the loss, damages caused to the BMC during the course of execution of the contract or due to non execution of the contract or part thereof.

ii. **Duration of the Joint Venture Agreement** - It shall be valid during the entire period of the contract including the period of extension if any and the maintenance period after the work is completed.

iii. **Governing Laws** - The Joint Venture Agreement shall in all respects be governed by and interpreted in accordance with Indian Laws.

iv. **Authorized Member** - Joint Venture members shall authorize one of the members on behalf of the Joint Venture firm to deal with the tender, sign the agreement or enter into contract in respect of the said tender, to receive payment, to witness joint measurement of work done, to sign measurement books and similar such action in respect of the said tender/contract. All notices/correspondences with respect to the contract would be sent only to this authorized member of the JV firm.

No member of the Joint Venture firm shall have the right to assign or transfer the interest right or liability in the contract without the written consent of the other members and that of the employer in respect of the said tender/contract. **Documents to be enclosed by the JV firm along with the tender:**

v. In case one or more of the members of the JV firm is/are partnership firm(s), following documents shall be submitted:

- a. Notary certified copy of the Partnership Deed,
- b. Consent of all the partners to enter into the Joint Venture Agreement on a stamp paper of appropriate value (in original).
- c. Power of Attorney (duly registered as per prevailing law) in favor of one of the partners to sign the MOU and JV Agreement on behalf of the partners and create liability against the firm.

vi. In case one or more members is/are Proprietary Firm or HUF, the following documents shall be enclosed:

a. Affidavit on Stamp Paper of appropriate value declaring that his Concern is a Proprietary Concern and he is sole proprietor of the Concern OR he is in position of "KARTA" of Hindu Undivided Family and he has the authority, power and consent given by other partners to act on behalf of HUF.

vii. In case one or more members is/are limited companies, the following documents shall be submitted:

a. Notary certified copy of resolutions of the Directors of the Company, permitting the company to enter into a JV agreement, authorizing MD or one of the Directors or Managers of the Company to sign MOU, JV Agreement, such other documents required to be signed on behalf of the Company and enter into liability against the company and/or do any other act on behalf of the company.

b. Copy of Memorandum and articles of Association of the Company.

c. Power of Attorney (duly registered as per prevailing law) by the Company authorizing the person to do/act mentioned in the para (a) above

n) All the members of the JV shall certify that they have not been black listed or debarred by BMC from participation in tenders/contract in the past either in their individual capacity or the JV firm or partnership firm in which they were members / partners.

o) Credentials & Qualifying criteria: Technical and financial eligibility of the JV firm shall be adjudged based on satisfactory fulfillment of the following criteria:

**Technical eligibility criteria:** In case of Work involving single discipline, the Lead member of the JV firm shall meet at least 35% requirement of technical capacity as stipulated in tender document for 3 bidders. If the JV is of 2 members only, Lead Partner will have 51% requirement of Technical capacity as stipulated in tender document.

*OR*

In case of composite works (e.g. works involving more than one distinct component such as Civil Engineering works, M&E works, Electrical works, etc. and in the case of major

bridges, substructure and superstructure etc.), at least one member should have satisfactorily completed 35% of the value of any one component of the project work so as to cover all the components of project work or any member having satisfactorily completed 35% of the value of work of each component during last seven financial years.

*In such cases, what constitutes a component in a composite work shall be clearly defined as part of the tender condition without any ambiguity.*

**Financial eligibility criteria:** The contractual payments received by the JV firm or the arithmetic sum of contractual payments received by all the members of JV firm in any one of the previous three financial years and shall be at least **100% of the estimated value** of the work as mentioned in the tender.

#### **84A. Penalty for delay:**

Following schedule is strictly to be followed during the execution of work. If the time line given are missed then penalty as follows will be impose to the perspective bidder.

The delay penalty will not be carried forward. Delay for respective activity will only be considered.

| <b>Sr. No</b> | <b>Schedule of activity to be completed</b>                                                                                                                             | <b>Time line</b> | <b>Cumulative. Time</b> | <b>Penalty</b>                             |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------------|--------------------------------------------|
| 1             | Preliminary work such as soil investigation, detailed design such as structural and architectural etc barricading, demolition of existing structure, mobilization, Etc. | 1 Month          | 1 Month                 | 0.5% Contract Cost Per week & Part thereof |
| 2             | Excavation, foundation work up to ground level Etc                                                                                                                      | 2 Months         | 3 Month                 | 0.5% Contract Cost Per week & Part thereof |
| 3             | Completion up to plinth/stilt/top of basement Etc and podium                                                                                                            | 3 Months         | 6 Month                 | 0.5% Contract Cost Per week & Part thereof |
| 4             | Completion work of RCC frame work/ upto final Top Level with 50% infrastructure and services                                                                            | 9 Months         | 15 Months               | 0.5% Contract Cost Per week & Part thereof |
| 5             | Completion of partitions, plumbing, laying of electrical conduits, firefighting Etc                                                                                     | 3.5 Months       | 18.5 Months             | 0.5% Contract Cost Per week & Part thereof |
| 6             | Completion of finishing items such as plaster, flooring, painting, installation of lift firefighting Etc with 100% infrastructure                                       | 5 Months         | 23.5 Months             | 0.5% Contract Cost Per week & Part thereof |
| 7             | Handing over after full completion in all respect to BMC staff                                                                                                          | 15 Days          | 24 Months               | 0.5% Contract Cost Per week & Part thereof |



After penalty at each stage, the schedule has to be re-aligned. Maximum amount of penalty shall not exceed 10% of contract sum.

BMC reserves the right to terminate the contract once 10% penalty is reached.

Penalty to be proposed by Executive Engineer and imposed by Deputy City Engineer (B.C.) E.S.

Appeal-

- i) Contractor can appeal against the penalty imposed upto 1 Crore to Director (E.S. & P)
- ii) Contractor can appeal against the penalties imposed more than Rs. One crore to AMC (P)/AMC (ES)

Following schedule is strictly to be followed during the execution of work. If the time line given are missed then penalty as follows will be impose to the perspective bidder.

The delay penalty will not be carried forward. Delay for respective activity will only be considered

#### **84. B. Compensation for delay:**

If the Contractor fails to complete the works and clear the site on or before the Contract or extended date(s) / period(s) of completion, he shall, without prejudice to any other right or remedy of Municipal Corporation on account of such breach, pay as agreed compensation, amount calculated as stipulated below (or such smaller amount as may be fixed by the Engineer) on the contract value of the whole work or on the contract value of the time or group of items of work for which separate period of completion are given in the contract and of which completion is delayed for every week that the whole of the work of item or group of items of work concerned remains uncompleted, even though the contract as a whole be completed by the contract or the extended date of completion. For this purpose the term 'Contract Value' shall be the value of the work at Contract Rates as ordered including the value of all deviations ordered:

- Completion period for projects (originally stipulated or as extended) not exceeding 6 months :**to the extent of maximum 1 percent per week.**
- Completion period for projects (originally stipulated or as extended) exceeding 6 months and not exceeding 2 years: **to the extent of maximum ½ percent per week.**
- Completion period for projects (originally stipulated or as extended) exceeding 2 years:**to**



**the extent of maximum  $\frac{1}{4}$  percent per week.**

When the delay is not a full week or in multiple of a week but involves a fraction of a week the compensation payable for that fraction shall be proportional to the number of days involved.

Provided always that the total amount of compensation for delay to be paid this condition shall not exceed the undernoted percentage of the Contract Value of the item or group of items of work for which a separate period of completion is given.

- i) Completion period (as originally stipulated or as extended) not exceeding 6 months: 10 percent.**
- ii) Completion period (as originally stipulated or as extended) exceeding 6 months and not exceeding 2 years :  $7\frac{1}{2}$  percent.**
- iii) Completion period (as originally stipulated or as extended) exceeding 2 years : 5 percent.**

The amount of compensation may be adjusted set off against any sum payable to the contractor under this or any other contract with the Municipal Corporation.

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## **85. Action and Compensation Payable In Case Of Bad Work and Not Done As Per Specifications**

All works under or in course of execution or executed in pursuance of the contract, shall at all times be open and accessible to the inspection and supervision of the Engineer-in-charge, his authorized subordinates in charge of the work and all the superior officers, officer of the Vigilance Department of the BMC or any organization engaged by the BMC for Quality Assurance and the contractor shall, at all times, during the usual working hours and at all other times at which reasonable notice of the visit of such officers has been given to the contractor, either himself be present to receive orders and instructions or have a responsible agent duly accredited in writing, present for that purpose. Orders given to the Contractor's agent shall be considered to have the same force as if they had been given to the contractor himself.

If it shall appear to the Engineer-in-charge or his authorized subordinates in-charge of the work or to the officer of Vigilance Department, that any work has been executed with unsound, imperfect or unskillful workmanship or with materials of any inferior description, or that any materials or articles provided by him for the execution of the work are unsound or of a quality inferior to that contracted for or otherwise not in accordance with the contract, the contractor shall, on demand in writing which shall be made within twelve months of the completion of the work from the Engineer-in-Charge specifying the work, materials or articles complained of notwithstanding that the same may have been passed, certified and paid for forthwith rectify, or remove and reconstruct the work so specified in whole or in part, as the case may require or as the case may be, remove the materials or articles so specified and provide other proper and suitable materials or articles at his own charge and cost. In the event of the failing to do so within a period specified by the Engineer-in-Charge in his demand aforesaid, then the contractor shall be liable to pay compensation at the same rate as under clause 8.e. of the general condition of contract in section 9 of tender document (for Compensation for delay) for this default. In such case the Engineer-in Charge may not accept the item of work at the rates applicable under the contract but may accept such items at reduced rates as the Engineer in charge may consider reasonable during the preparation of on account bills or final bill if the item is so acceptable without detriment to the safety and utility of the item and the structure or he may reject the work outright without any payment and/or get it and other connected and incidental items rectified, or removed and re-executed at the risk and cost of the contractor. Decision of the Engineer-in-Charge to be conveyed in writing in respect of the same will be final and binding on the contractor.

If the penalisation amount exceeds maximum limit with respect to Clause 8.e of Standard General Conditions of Contract, then a show cause notice shall necessarily be issued to the contract as to why the contract should not be terminated.

*The above clause is summarized to make it easy to understand as follows:*

- *The Engineer-in-charge shall issue notice to the contractor for rectifying the defects or redoing of the work if necessary, within specific time to achieve the desired quality and quantity of the work and this should be governed by clause 8.f and 9.b of Standard General Conditions of Contract.*
- *If the contractor fails to comply the same, only then, the contractor shall be liable to pay compensation at the same rate as under clause 8.e of the Standard General Condition of Contract (for Compensation for delay) for this default.*
- *If the penalization amount exceeds the maximum limit, then the contractor will be liable for being banned/ deregistered from business dealings with BMC and this shall be governed by relative provision in Registration Rules of BMC and Standard General Conditions of Contract.*
- *This penalization shall be levied only on account of delay in work, unsound, imperfect or unskillful workmanship or with materials of any inferior description, or that any materials or articles provided by him for the execution of the work are unsound or of quality inferior to that contracted for or otherwise not in accordance with the contract.*

## 86. Contractors remain liable to pay compensation:

In any case in which any of the powers conferred upon the Engineer In-charge by the **relevant clauses** in documents that form a part of contract as exercised or is exercisable in the event of any future case of default by the Contractor, he is declared liable to pay compensation amounting to the whole of his security deposit. The liability of the Contractor for past and future compensation shall remain unaffected.

In the event of the Executive Engineer taking action against these **relevant clauses**, he may, if he so desires, take possession of all or any tools and plant, materials and stores in or upon the work of site thereof or belonging to the Contractor or procured by him and intended to be used for the execution of the work or any part thereof paying or allowing for the same in account at the contract rates, or in the case of contract rates not being applicable at current market rates to be certified by the Executive Engineer, may after giving notice in writing to the Contractor or his staff of the work or other authorized agent require him to remove such tools and plants, materials or stores from the premises within a time to be specified in such notice and in the event of the Contractor failing to comply with any such requisition, the Executive Engineer may remove them at the contractors expense of sell them by auction or private sell on account of the Contractor at his risk in all respects and certificate of the Executive Engineer as to the expense of any such removal and the amount of the proceeds an expense of any such sell be final and conclusive against the Contractor.

*The above clause is summarized to make it easy to understand as follows:*

- *The Engineer-in-charge shall issue notice to the contractor for rectifying the defects or redoing of the work if necessary, within specific time to achieve the desired quality and quantity of the work and this should be governed by clause 8.f and 9.b of Standard General Conditions of Contract.*
- *If the contractor fails to comply the same, only then, the contractor shall be liable to pay compensation at the same rate as under clause 8.e of the Standard General Condition of Contract (for Compensation for delay) for this default.*
- *If the penalization amount exceeds the maximum limit, then the contractor will be liable for being banned/ deregistered from business dealings with BMC and this shall be governed by relative provision in Registration Rules of BMC and Standard General Conditions of Contract.*
- *This penalization shall be levied only on account of delay in work, unsound, imperfect or unskillful workmanship or with materials of any inferior description, or that any materials or articles provided by him for the execution of the work are unsound or of quality inferior to that contracted for or otherwise not in accordance with the contract.*

## **87. No Claim to Any Payment or Compensation Or Alteration In Or Restriction Of Work**

(a) If at any time after the execution of contract documents, the Engineer shall for any reason whatsoever, desires that the whole or any part of the works specified in the Tender should be suspended for any period or that the whole or part of the work should not be carried out, at all, he shall give to the Contractor a Notice in writing of such desire and upon the receipt of such notice, the Contractor shall forthwith suspend or stop the work wholly or in part as required after having due regard to the appropriate stage at which the work should be stopped or suspended so as not to cause any damage or injury the work already done or endanger the safety thereof, provided that the decision of the Engineer as to the stage at which the work or any part of it could be or could have been safely stopped or suspended shall be final and conclusive against the contractor.

The Contractor shall have no claim to any payment or compensation whatsoever by reason of or in pursuance of any notice as aforesaid, on account of any suspension, stoppage or curtailment except to the extent specified hereinafter.

(b) Where the total suspension of Work Order as aforesaid continued for a continuous period exceeding 90 days the contractor shall be at liberty to withdraw from the contractual obligations under the contract so far as it pertains to the unexecuted part of the work by giving 10 days prior notice in writing to the Engineer within 30 days of the expiry of the said period of 90 days, of such intention and requiring the Engineering to record the final measurement of the work already done and to pay final bill. Upon giving such Notice, the Contractor shall be deemed to have been discharged from his obligations to complete the remaining unexecuted work under his contract. On receipt of such notice the Engineer shall proceed to complete the measurement and make such payment as may be finally due to the contractor within a period of 90 days from the receipt of such Notice in respect of the work already done by the contractor. Such payment shall not in any manner prejudice the right of the contractor to any further compensation under the remaining provisions of this clause.

(c) Where the Engineer required Contractor to suspend the work for a period in excess of 30 days at any time or 60 days in the aggregate, the Contractor shall be entitled to apply to the Engineer within 30 days of the resumption of the work after such suspension for payment of compensation to the extent of pecuniary loss suffered by him in respect of working machinery remained ideal on the site of on the account of his having to pay the salary of wages and labour engaged by him during the said period of suspension provided always that the contractor shall not be entitled to any claim in respect of any such working machinery, salary or wages for the first 30 days whether consecutive or in the aggregate or such suspension or in respect of any such suspension whatsoever occasion by unsatisfactory work or any other default on his part, the decision of the Engineer in this regard shall be final and conclusive against the contractor.

## **88. Contractor to supply plant, ladder, scaffolding, etc and is liable for damages arising from non-provision of lights, fencing, etc.**

The Contractor shall supply at his own cost all material, plant, tools, appliances, implements, ladders, cordage, tackle scaffolding and temporary works requisite or proper for the proper execution of the work, whether, in the original altered or substituted form and whether included in the specification of other documents forming part of the contract or referred to in these conditions or not and which may be necessary for the purpose of satisfying or complying with the requirements of the Eng-In-Charge as to any matter as to which under these conditions is entitled to be satisfied, or which is entitled to require

together with the carriage therefore to and from the work.

The Contractor shall also supply without charge, the requisite number of person with the means and materials necessary for the purpose of setting out works and counting, weighing and assisting in the measurements of examination at any time and from time to time of the work or materials, failing which the same may be provided by the Engineer In-charge at the expense of the contractor and the expenses may be deducted from any money due to the contractor under the contract or from his security deposit or the proceeds of sale thereof, or offers sufficient portion thereof.

The contractor shall provide all necessary fencing and lights required to protect the public from accident and shall also be bound to bear the expenses of defence of every suit, action or other legal proceedings, that may be brought by any person for injury sustained owing to neglect of the above precautions and to pay any damages and cost which may be awarded in any such suit action or proceedings to any such person or which may with the consent of the contractor be paid for compromising any claim by any such person.

**89. Prevention of Fire:**

The contractor shall not set fire to any standing jungle, trees, brushwood or grass without a written permit from the Engineer In-charge. When such permit is given, and also in all cases when destroying cut or dug up trees brushwood, grass, etc., by fire, the contractor shall take necessary measure to prevent such fire spreading to or otherwise damaging surrounding property. The Contractor shall make his own arrangements for drinking water for the labour employed by him.

- 90.** Compensation for all damages done intentionally or unintentionally by contractor's labour whether in or beyond the limits of BMC property including any damage caused by spreading the fire shall be estimated by the Engineer In-charge or such other officer as he may appoint and the estimate of the Engineer in-charge to the decision of the Dy. Chief Engineer on appeal shall be final and the contractor shall be bound to pay the amount of the assessed compensation on demand failing which the same will be recovered from the Contractor as damages or deducted by the Engineer In-charge from any sums that may be due or become due from BMC to contractor under this Contract or otherwise. Contractor shall bear the expenses of defending any action or other legal proceedings that may be brought to prevent the spread of fire and he shall pay any damages and costs that may be awarded by the Court in consequence.

- 91.** In the case of Tender by partners, any change in the constitution of the firm shall be forthwith, notified by the contractor through the Engineer In-charge for his information.

**92. Action where no specifications:**

In the case of any class of work for which there is no such specifications, such works shall be carried out in accordance with the specifications and in the event of there being no such specifications, then in such case, the work shall be carried out in all respects in accordance with all instructions and requirements of the Engineer In-charge.

**93. Safety and medical help:**

- (i) The Contractor shall be responsible for and shall pay the expenses of providing medical help to any workmen who may suffer a bodily injury as a result of an accident. If such expenses are incurred by BMC, the same shall be recoverable from the contractor forthwith and be included without prejudice to any other remedy of BMC from any amount due or that may become due to the Contractor.
- (ii) The contractor shall provide necessary personal safety equipment and first-aid box for the use of persons employed on the site and shall maintain the same in condition suitable for immediate use at any time.
- (iii) The workers shall be required to use the safety equipments so provided by the contractor and

the contractor shall take adequate steps to ensure the proper use of equipments by those concerned.

(iv) When the work is carried on in proximity to any place where there is risk or drawing all necessary equipments shall be provided and kept ready for use and all necessary steps shall be taken for the prompt rescue of any person in danger.

**94.** No compensation shall be allowed for any delay caused in the starting of the work on account of acquisition of land or in the case of clearance of works, on account of any delay in according to sanction of estimates.

**95. Anti-malaria and other health measures:**

Anti-Malaria and other health measures shall be taken as directed by the Executive Health Officer of BMC. Contractor shall see that mosquito genic conditions are created so as to keep vector population to minimum level. Contractor shall carry out anti-malaria measures in the area as per the guidelines issued by the Executive Health Officer of BMC from time to time.

In case of default, in carrying out prescribed anti-malaria measures resulting in increase in malaria incidence, contractor shall be liable to pay BMC on anti-malaria measures to control the situation in addition to fine.

**SECTION 12**  
**SPECIFICATIONS**  
**& SELECTION OF MATERIAL**



## **SPECIFICATIONS & SELECTION OF MATERIAL**

The tender is prepared on the basis of Unified Schedule of Rates and specifications 2023. The specifications of the items of USOR are available on BMC portal <http://portal.mcgm.gov.in> under the Tender tab. Hence the deserving contractor shall either download the same from BMC portal or the same may be collected in the soft copy format at the time of purchasing the tender from this office.

### **SELECTION OF MATERIAL**

1. All materials brought on the site of work and meant to be used in the same, shall be the best of their respective kinds and to the approval of the Engineer. The Engineer or his representative will accept that the materials are really the best of their kinds, when it is proved beyond doubt that no better materials of the particular kind in question are available in the market.
2. The contractor shall obtain the approval of the Engineer of samples of all materials to be used in the works and shall deposit these samples with him before placing an order for the materials with the suppliers. The materials brought on the works shall conform in every respect to their approved samples. Fresh samples shall be deposited with the Engineer whenever the type or source of any material changes.
3. The contractor shall check each fresh consignment of materials as it is brought to the site of works to see that they conform in all respects to the Specifications of the samples approved by the Engineer, or both.
4. The Engineer will have the option to have any of the materials tested to find out whether they are in accordance with the Specifications and the Contractor will bear all expenses for such testing. All B bills, vouchers and test certificates, which in the opinion of the Engineer or his representative are necessary to convince him as to the quality of the materials or their suitability shall be produced for his inspection when required.
5. Any materials that have not been found to conform to the specifications will be rejected forthwith and shall be removed from the site by the contractor at his own cost within 24 hours.
6. The Engineer shall have power to cause the Contractors to purchase and use such materials from any particular source, as may in his opinion be necessary for the proper execution of the work.
7. Notwithstanding the source, the sand shall be washed using sand washing machine before use.
8. The specifications for finishing / Architectural / Civil Items shall be got approved from M. A. Department, before using on site and as per note of no. MA Che/MA/2638/I dated 16.01.2023.
9. In case of change in Specification, differential cost will be paid/recovered from the Contractor
10. Factory testing for all equipment prior to delivery shall be carried out by BMC staff/PMC for all factory supplied civil items, mechanical and electrical items. All costs related to the testing including travel, lodging and boarding will be borne by the contractor.

**SPECIFICATIONS & SELECTION OF MATERIAL i.e.**  
**MINIMUM SPECIFICATIONS**

| SPECIFICATIONS FOR CONSTRUCTION OF BUILDING    |            |                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                          |                                                                                                                            |
|------------------------------------------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
|                                                |            |                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                          |                                                                                                                            |
| MINIMUM FACILITIES to be provided PER TENEMENT |            |                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                          |                                                                                                                            |
| A) Total Carpet Area C. Residential Tenement   |            | 37.80 sq. m.                                                                                                                                                                                                                                                                                                                                                      | 55.55 sqm                                                                                                                                                                                                                                                                                                                | Make                                                                                                                       |
|                                                |            | - Living room (1 No.)                                                                                                                                                                                                                                                                                                                                             | - Living room (1 No.)                                                                                                                                                                                                                                                                                                    | All the sample of materials, fittings, finishes etc. shall be got approved before execution from Dy. Chief Engineer/MA/PMC |
|                                                |            | - Bedroom room (1 No.)                                                                                                                                                                                                                                                                                                                                            | - Bedroom room (2 No.)                                                                                                                                                                                                                                                                                                   |                                                                                                                            |
|                                                |            | - Kitchen with Cooking Alcove (1 No.)                                                                                                                                                                                                                                                                                                                             | - Kitchen with Cooking Alcove (1 No.)                                                                                                                                                                                                                                                                                    |                                                                                                                            |
|                                                |            | - Bathroom (2 No.)                                                                                                                                                                                                                                                                                                                                                | - Bathroom (2 No.)                                                                                                                                                                                                                                                                                                       |                                                                                                                            |
|                                                |            | - W.C. (2 No.)                                                                                                                                                                                                                                                                                                                                                    | - W.C. (2 No.)                                                                                                                                                                                                                                                                                                           |                                                                                                                            |
|                                                |            | - Wash Basin (2 No.)                                                                                                                                                                                                                                                                                                                                              | - Wash Basin (2 No.)                                                                                                                                                                                                                                                                                                     |                                                                                                                            |
|                                                |            | Balcony 3 nos                                                                                                                                                                                                                                                                                                                                                     | Balcony 3 nos                                                                                                                                                                                                                                                                                                            |                                                                                                                            |
| 1) Living room/ Bedroom                        | Flooring   | Vitrified flooring polished full bodied of 8mm thick of size minimum 600 mm x 600mm with 100mm high skirting                                                                                                                                                                                                                                                      | Vitrified flooring polished full bodied of 8mm thick of size minimum 600 mm x 600mm with 100mm high skirting                                                                                                                                                                                                             | Flooring: Kajaria/Johnson/Nitco/Somany                                                                                     |
|                                                | Plaster    | Gyproc plaster for wall plaster                                                                                                                                                                                                                                                                                                                                   | Gyproc plaster for wall plaster                                                                                                                                                                                                                                                                                          | Saint Gobain                                                                                                               |
|                                                | Painting   | Interior wall finish should be with 3 coats Royale luxury Emulsion paint with Birla putty                                                                                                                                                                                                                                                                         | Interior wall finish should be with 3 coats Royale luxury Emulsion paint with Birla putty                                                                                                                                                                                                                                | Asian/Berger/Nerolac/Dulux paints.                                                                                         |
|                                                | Doors      | 2 hour fire rated doors                                                                                                                                                                                                                                                                                                                                           | 2 hour fire rated doors                                                                                                                                                                                                                                                                                                  | All door fixtures shall be of brushed stainless steel of reputed Make with 2 hr fire rating                                |
|                                                | Windows    | Windows to be provided with granite window sills on all 4 sides Godrej/Everite/Prima/Plaza/Harrison or equivalent lock for each tenements and common facility rooms. Min 1.5 m x 1.2 m high Anodized Aluminum sliding window with mosquito hali having 3 glass shutters & one mosquito jalli shutters). All windows must be provided with grills. 4 Track windows | Windows to be provided with granite window sills on all 4 sides. Godrej/Everite/Prima/Plaza/Harrison or equivalent lock for each tenements and common facility rooms. Min 1.5 m x 1.2 m high Anodized Aluminum sliding window with mosquito hali having 3 glass shutters & one mosquito jalli shutters). 4 Track windows | Jindal Aluminum/Hindalco Section with hardware as specified.                                                               |
|                                                | Electrical | Minimum 2 light points, 1 fan point, 1 cable T.V. point, 1 bell point (in living room only) and 5 Amp point in each room. Tubelights,fan to be provided (concealed wiring in concrete/masonry).                                                                                                                                                                   | Minimum 2 light points, 1 fan point, 1 cable T.V. point, 1 bell point (in living room only) and 5 Amp point in each room. Tubelights,fan to be provided (concealed wiring in concrete/masonry).                                                                                                                          | Electrical switches: Havells/Roma/Anchor. Electrical wiring: Polycab, Finolex.                                             |

|                           |                  |                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                         |                                                                       |
|---------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| 2) Cooking Alcove/Kitchen | Flooring         | Polished, full bodied vitrified tiles of minimum size 600 mm x 600 mm with 100mm high skirting                                                                                                                                                                                                                                                        | Polished, full bodied vitrified tiles of minimum size 600 mm x 600 mm with 100mm high skirting                                                                                                                                                                                                                                                          | Flooring:<br>Kajaria/Johnson/Nitco/Orient/Modern/Somany               |
|                           | Plaster          | Gyproc plaster for wall plaster                                                                                                                                                                                                                                                                                                                       | Gyproc plaster for wall plaster                                                                                                                                                                                                                                                                                                                         | Saint Gobain                                                          |
|                           | Painting         | Interior wall finish should be with 3 coats Royale luxury Emulsion paint with Birla putty                                                                                                                                                                                                                                                             | Interior wall finish should be with 3 coats Royale luxury Emulsion paint with Birla putty                                                                                                                                                                                                                                                               | Asian/Berger/Nerolac/Dulux paints.                                    |
|                           | Windows          | 1.2 m x 1.2 m Anodized Aluminium glass sliding window with provision of exhaust fan and mesh. 3 Track window                                                                                                                                                                                                                                          | 1.2 m x 1.2 m Anodized Aluminium glass sliding window with provision of exhaust fan and mesh. 3 Track window                                                                                                                                                                                                                                            | Jindal/Hindalco Aluminium Sections with hardware as specified.        |
|                           | Cooking platform | Kitchen Platform Min. size 1.8m x 0.6m width finished with Polished Granite Platform with stainless steel sink of size 450mm x 450mm and ceramic tile dado upto 1200mm above platform level till window top level for the length of the platform. Shelves for storage to be provided with laminated 18mm marine ply wood shutters. 1.5mm thk laminate | Kitchen Platform Min. size 1.8m x 0.6m width finished with Polished Granite Platform with stainless steel sink of size 450mm x 450mm and ceramic tile dado upto 1200mm above platform level till window top level for the length of the platform. Shelves for storage to be provided with laminated 18mm marine ply wood shutters. 1.5mm thick laminate | Nirali Sink, Greenlam ply and laminate                                |
|                           | Plumbing         | C' Class, concealed plumbing lines PVC Pipes, PVC Nahani trap with cover plate below sink. Spout +32mm waste coupler+ bottle trap + PVC concealed                                                                                                                                                                                                     | C' Class, concealed plumbing lines PVC Pipes, PVC Nahani trap with cover plate below sink. Spout +32mm waste coupler+ bottle trap + PVC concealed                                                                                                                                                                                                       | Plumbing: I.S.I. quality (Watertec Pvt. Ltd, Finolex Industries Ltd.) |

|                         |               |                                                                                                                                                           |                                                                                                                                                           |                                                                                                                          |
|-------------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
|                         | Electrical    | 2 light points, 1 fan point, 1 exhaust fan point, 2 plug point of 5 Amps and additional 6 points of 15 Amps. Tubelights, fan, exhaust fan to be provided. | 2 light points, 1 fan point, 1 exhaust fan point, 2 plug point of 5 Amps and additional 6 points of 15 Amps. Tubelights, fan, exhaust fan to be provided. | Electrical switches: Havells/Roma/Anchor. Electrical wiring: Polycab, Finolex.                                           |
| <b>3) Bath &amp; WC</b> | Flooring      | Anti skid tiles for bath and WC flooring of size 600mm x 600mm and dado of vitrified tiles 600mm x 600mm upto full height.                                | Anti skid tiles for bath and WC flooring of size 600mm x 600mm and dado of vitrified tiles 600mm x 600mm upto full height.                                | Flooring: Kajaria/Johnson/Nitco/Orient/Modern/Somany                                                                     |
|                         | Door Frame    | Granite Frame in double patti as per specifications                                                                                                       | Granite Frame in double patti as per specifications                                                                                                       |                                                                                                                          |
|                         | Door Shutters | FRP Door shutter                                                                                                                                          | FRP Door shutter                                                                                                                                          | FRP Door approved by MCGM                                                                                                |
|                         | Plumbing      | Concealed plumbing of 'C' class PVC pipes WC, jetspray, flush tank, Geyser, Basin, Shower with accessories of towel rack and napkin ring                  | Concealed plumbing of 'C' class PVC pipes WC, jetspray, flush tank, Geyser, Basin, Shower with accessories of towel rack and napkin ring                  | Plumbing pipes: I.S.I. quality (Watertec Pvt. Ltd, Finolex Industries Ltd.)/Zenith/Jain KOHLER/Jaguar. Sanitary fittings |
|                         |               | Brass with C.P.Shower                                                                                                                                     | Brass with C.P.Shower                                                                                                                                     |                                                                                                                          |
|                         | Windows       | 0.6m x 0.9m Anodized Aluminum windows with Translucent glass louvers on granite frame provided with exhaust fan point.                                    | 0.6m x 0.9m Anodized Aluminum windows with Translucent glass louvers on granite frame provided with exhaust fan point.                                    | Electrical wiring: Polycab,Finolex.                                                                                      |
|                         | Electrical    | 1 power plug for geyser (in bathroom) and 1 light point each in bathroom & WC                                                                             | 1 power plug for geyser (in bathroom) and 1 light point each in bathroom & WC                                                                             |                                                                                                                          |
|                         | Exhaust fan   | 1 Exhaust fan point for both W.C. and bath and exhaust fan to be provided.                                                                                | 1 Exhaust fan point for both W.C. and bath and exhaust fan to be provided.                                                                                |                                                                                                                          |
|                         |               | Waterproofing with brickbat coba and tile drop                                                                                                            | Waterproofing with brickbat coba and tile drop                                                                                                            |                                                                                                                          |

|  |    |                                                                       |                                                                       |                                                                                                                                       |
|--|----|-----------------------------------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
|  | WC | Western style cantilever WC with concealed flushing tank (dual flush) | Western style cantilever WC with concealed flushing tank (dual flush) | Bath & WC areas shall be made water tight with grouting and waterproof treatment. Waterproof treatment will include:- a)Brickbat coba |
|--|----|-----------------------------------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            |                                                                                                                                                                                                                                                                                                          |                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <p>a) All internal walls/ceiling shall be form finished exposed concrete with neat cement primer or brick masonry with min 15 mm thick cement plaster (including on RCC structural members.)-Gyproc plaster</p> <p>b) Internal surface (wherever not dadoed or tiled) will be finished with two coats of oil bound distemper of approved shade and color over a coat of primer and one coat of Birla putty.</p> <p>c) Window/ louvered window will be provided with 18 mm thick polished granite/ pre-cast concrete at sill, sides and top of window including Concrete at sill.</p> <p>d) All electrical/TV wiring shall run through PVC casing/capping, copper wiring. (except concealed wiring in M.S. conduits.)</p> <p>e) All taps/ faucets will be of brass with chromium plating.</p> <p>f) All door hinges and hardware will be of brass with chromium plating.</p> <p>g) Kotah stone wherever used shall be min 25 mm thick with uniform greenish colour.</p> <p>h) Rectified &amp;Vitrified /Ceramic tiles wherever used shall be first quality of uniform size, colour and edges evenly leveled.</p> <p>i) Fixed Box Type M.S. Grill (of opening not more than 100 mm) to be provided on outside of all windows and at least 300 mm outer distance to be maintained for Box grill. The M.S. Grill shall be made up of 12 mm x 12 mm square bars welded to M.S. flats 4 mm thk. Anti corrosive treatment to the steel reinforcement as per Cement Polymer Composite Coating (C.P.C.U.) method developed by C.E.C.R.I. including cleaning the bar means of any established mechanical or manual method or as per detailed PWD Specifications.</p> <p>j) The all steel REINFORCEMENT bars used should be Fusion Bonded Epoxy Coating (FBEC) as per IS: 13620-1993 Specifications.</p> |            |                                                                                                                                                                                                                                                                                                          |                                           |
| <b>B. FACILITIES IN EACH BUILDING</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |                                                                                                                                                                                                                                                                                                          |                                           |
| <b>1) Staircase</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Electrical | <ul style="list-style-type: none"> <li>Minimum 2.0 m wide staircase flight with single piece kotah stone treads &amp; risers RCC Pardi with S. S. pipe as handrail and minimum height of 1.05 m.</li> <li>2 hr fire rated door at Entrance at Gr. Floor with two coats of enamel paint over a</li> </ul> | Electrical wiring:<br>Polycab,<br>Finolex |

|                                     |          |                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                 |
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|                                     |          | <p>coat of primer.</p> <ul style="list-style-type: none"> <li>● Fire door at terrace level as approved by MCGM/CFO</li> <li>● The staircase shall be well lit and well ventilated with glazed aluminum sliding window and/or RCC grill.</li> <li>● 1 light point at each landing level and mid landing level.</li> <li>● 2 hour Fire resistance rating for staircase FRD, lift lobby/protected lobby.</li> </ul> |                                                                                 |
| <b>2) Lift</b>                      |          | <p>Minimum capacity of 15 persons and design as per relevant IS codes and given specifications.</p> <p>Maintenance by the manufacturer for a period of 10 years after O.C.C. Fire lift and evacuation lift as per CFO NOC</p>                                                                                                                                                                                    | <p>Lift:</p> <p>Schindler/Otis /Mitsubishi</p> <p>Johnson/Kone/ Thyssenkrup</p> |
| <b>3) Electric meter room</b>       |          | <p>Provide individual meters for the tenements and to be located in a meter room at ground/stilt floor level.</p> <p>Separate meter for common lighting facility, lifts, passage lighting, pumps/ STP.</p> <p>The meter room shall be well ventilated and provided with a lockable door and Fire Resistance Door.</p>                                                                                            |                                                                                 |
| <b>4) Parapet</b>                   |          | <p>Terrace parapet should be min. of 125 mm thick RCC or 230 mm thick brick masonry of minimum 1.20 m height with minimum 100 mm thick RCC.coping on top.</p>                                                                                                                                                                                                                                                    |                                                                                 |
| <b>5) Internal corridors/ Lobby</b> | Flooring | <p>Granite finish tiles with 100 mm skirting of the same for entrance lobby &amp; Polish Kotah flooring with jaisalmer/ marble inlay for corridors/passages with 100 mm skirting of the same.</p>                                                                                                                                                                                                                | <p>Flooring: Kajaria/ Johnson/ Nitcon/Spartek.</p> <p>Paint: Asian</p>          |

|                                  |                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                              |
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|                                  | <p>Painting</p> <p>Number plates</p> <p>Electrical</p> | <p>Synthetic enamel painting on walls upto 1.50 m ht. Rest of the wall area and ceiling shall be OBD in shade of same color (Two coats over a coat of primer)</p> <p>Silver anodized aluminum plates of minimum 50 mm ht.</p> <p>1 light point at 2.40 m ht. at every 4 m interval in common passage. Individual switches for bell to each flat.</p>                                                                                                                                                                                                                                                                                          | <p>Paint/ Goodlas Nerolac/Berge .</p> <p>Electrical: Bajaj/Havells/ Wipro.</p> <p>Electrical wiring: Polycab, Finolex.</p>                   |
| <b>6) O. H. water Tank:</b>      | Plumbing                                               | <p>RCC with slab and M.S. covers for MH on top with proper locking arrangement. Water proofing to be provided with injection grouting Internal and external water proof plaster. M. S. ladder to overhead water tanks. Plumbing inlets and outlets will be hidden from general view by means of a barrier wall.</p> <p>A separate water tank shall be provided in case of water from bore well in case where municipal water supply is not available or insufficient and separate water tanks and lines for domestic and fire &amp; flushing water system.</p> <p>Capacity of OHT/UGT as per MCGM norms and that of fire tank as per CFO.</p> | <p>Plumbing: I.S.I. quality (Watertec Pvt Ltd, Finolex Industries Ltd.)</p> <p>All work to be done as per concerned Statutory Authority.</p> |
| <b>7) Ducts/ Shafts</b>          |                                                        | <p>It is desirable that all vertical plumbing may be hidden from view and pass through external vertical ducts.</p> <p>Similarly all electrical wiring telephone wires, internal and TV cables will pass through special ducts provided for the purpose and accessible through lockable doors - 2 hr fire rated</p>                                                                                                                                                                                                                                                                                                                           | <p>Ducts shall be designed to facilitate easy access for repair maintenance purpose in future.</p>                                           |
| <b>8) Terrace water proofing</b> |                                                        | <p>The terrace floor slab shall be water proofed. Brick bat coba shall be used for providing proper gradient for drainage of</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <p>As per Specifications.</p>                                                                                                                |



|                                                  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                             |
|--------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
|                                                  |  | rain water to nearest down take rain water pipes.<br><br>The terrace shall be finished with white glazed china mosaic.                                                                                                                                                                                                                                                                                                                                                                                                                |                                             |
| <b>9) External wall finish and Appearance</b>    |  | External facades of the buildings shall be neat and with pleasing aesthetics and color combinations. The wall surface shall be finished with Waterproof OS and sand faced plaster in two coats plaster in case of brick masonry construction or exposed in case of monolithic concrete construction. In either case, the wall surface will be painted externally with rain coat paint of Dr. Fixit or 100% cement weather proof paint of ISI Mark Company. Extra polymer coating of ISI marks company on all the exterior dead walls. | Paint: Asian Paint/ Goodlas Nerolac/Berger. |
| <b>C. INFRASTRUCTURE FACILITIES</b>              |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                             |
| <b>1) Compound Wall</b>                          |  | Min.1.5 m height with RCC pillars/beams 230 mm thick brick masonry wall with pillars as required and RCC coping on top.                                                                                                                                                                                                                                                                                                                                                                                                               |                                             |
| <b>2) Gates to be provided various locations</b> |  | M. S. Ornamental gate with good design of Min. size 4.5m to 6.0m wide 1.5 m height with M.S. frame & Grill with track on wheel, locking arrangement.                                                                                                                                                                                                                                                                                                                                                                                  |                                             |
| <b>3) Plinth Protection</b>                      |  | Minimum 1.00 m plinth protection in PCC 150 mm thick. M 25 all around building with soling below over finished Ground level with paver blocks of 80 mm thick. Hardscape for all non-landscape areas with 80mm paver blocks.                                                                                                                                                                                                                                                                                                           |                                             |
| <b>4) Vehicular access / Parking lots</b>        |  | Well paved WBM roads with tarmac for vehicular access building on all layout roads and in open parking area. Walkways, footpaths etc. with cement lacquered coated paver blocks 80 mm thick/trimix concrete on 15 cm thick M30 concrete around building with min. width for maneuvering of                                                                                                                                                                                                                                            |                                             |

|                                                          |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                           |
|----------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
|                                                          |  | fire engine as suggested by CFO. A well lit and well ventilated. Parking areas shall be provided as per provision in layout, if any.                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                           |
| <b>5) Lighting</b>                                       |  | General light points around building and along compound wall are to be provided with light post wherever required. The Entrance gates will be well lit with decorative lights- Façade lights for roadside buildings, clubhouse to be included.                                                                                                                                                                                                                                                                            |                                                                                           |
| <b>6) Security Guard cabin</b>                           |  | A well lit and well ventilated security guard cabin is to be provided near all entrance gates.                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                           |
| <b>7) Common toilet</b>                                  |  | A common toilet for security guards and other personnel shall be provided at ground floor level complete with WC, washbasin and bathing facility. The toilet will be well lit and ventilated complete with dado tiling upto full height.                                                                                                                                                                                                                                                                                  | Sanitary Fittings:<br>Jaquar, Cera, Parryware                                             |
| <b>8) Underground water tank &amp; pumps, pump rooms</b> |  | An RCC Underground water tank as per statutory requirements and norms with man-holes and man-hole covers with locking arrangement and pump room and pumps including standby arrangement (or submersible pumps) to be provided. Separate UG tank compartments and pumping arrangement for domestic and flushing water and fire requirements.<br><br>Water proofing treatment to UG tank by injection grouting/IS approved chemical base treatment from inside & outside and bottom with box type water proofing treatment. |                                                                                           |
| <b>9) Sewerage</b>                                       |  | All waste water soil pipes shall be connected to external sewage system through gully traps and glazed stoneware pipes. Brick masonry with smooth cement plastered chambers with heavy duty CI/ /RCC covers shall be provided at required intervals                                                                                                                                                                                                                                                                       | UPVC down take pipe with 6" dia. and 1' dia. R.C.C pipe connecting to main sewerage line. |

|                                                                                 |  |                                                                                                                                                                                                                                                                                                                                          |  |
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|                                                                                 |  | <p>through the route of stoneware pipes/RCC Pipes. The discharges will be in municipal sewer if available or in septic tanks, designed and built to necessary size. The discharges will finally end in soak pits.</p> <p>Sewage treatment plant with separate UG tank for treated soil water shall be provided for water re-cycling.</p> |  |
| <b>10 Storm water drainage</b>                                                  |  | The runoff water at ground level and road / paved areas will be drained through storm water drains (properly covered by CI/RCC heavy duty grated covers) and connected to the UG water harvesting tank through a water treatment media for recycling and as per SWD remarks issued by MCGM.                                              |  |
| <b>11) Electric sub station</b>                                                 |  | As per approval/ remarks/ requirement of D. C. rules/norms & utility supplier.                                                                                                                                                                                                                                                           |  |
| <b>12) Rain water Harvesting, sewage treatment plant, fire fighting systems</b> |  | As per approval/ remarks/ requirement of D. C. rules & MCGM.                                                                                                                                                                                                                                                                             |  |

**Note:**

- 1) All the work is to be executed following the latest Indian and relevant Indian standard codes for material, workmanship and quality.
- 2) The brands of materials to use like bricks, cement, tiles flooring, oil paints, internal/ external paints shall be as directed by engineers for the work.
- 3) The reinforcement steel shall be as per M.C.G.M. schedule of rates specification.
- 4) The steel used for construction work on site shall be Fe-500 tor steel.

- 5) The cement shall be of Ordinary Portland Cement (OPC) with minimum 53-grade and Pozzolana Portland Cement (PPC) shall be used for water proofing and plastering work respectively.
  - 6) Bidder shall maintain the record of reinforcement steel, wood, cement, RMC procured for the work along with challans, bills etc.
  - 7) As desired by the engineer may send the challan of reinforcement steel, RMC cement to the manufacturing company official for confirmation of same.
  - 8) Prefab/modern technology shall be used while execution of the work.
- 9) In case of changes in specification, differential will be paid/recovered from the Contractor based on USOR 2023 or fair item rate analysis.**

Specifications given below are indicative and final specifications including Fair Items etc. to be provided will be Based on tender documents, National Building Code (NBC) and DCPR 2034 Regulations and requirements of Project for a complete solution.

| Sr No. | BMC Bldg. USOR 2023 | Specification:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Unit | Remarks |
|--------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------|
|        |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |         |
|        |                     | Note:- Tenderers are advised to visit the site and acquaint themselves with the existing site conditions before quoting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |         |
| 1      |                     | ITEM DELETED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |         |
| 2      |                     | ITEM DELETED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |         |
|        |                     | <b>Excavation.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |         |
| 3      | R3-CS-EW-5          | Excavation by using splitters for foundations, substructures, basements, tanks, sumps, walls, chambers, manholes, trenches, poles, pits & general building works in hard rock, reinforced concrete, for depths/lifts upto 1.5M, including drilling, breaking in small pieces, mucking, dressing/trimming the sides, leveling of bottoms, manual dewatering, removing rank vegetation, backfilling in layers not more than 200mm thickness, watering, consolidating, compacting to achieve not less than 97% Modified Proctor density conforming to relevant IS, stacking in measurable heaps for future use within owners space or disposing within an initial lead of 150m as directed by Engineer-in-Charge, loading, unloading, leveling excluding shoring, strutting etc. complete.<br>Note:<br>1) The rate includes the handling/supporting the existing utilities such as cables, drains, pipes, water mains etc.<br>2) It also includes the royalty and other taxes if any. | cum  |         |
| 4      | R3-CS-EW-11         | Filling in plinth, floors, trenches, pits with approved excavated materials, murum / good earth in layers not exceeding 200mm including breaking of clods, watering, consolidating each layer in filled up area by rolling and compacting with roller/ plate compactor as required to achieve not less than 97% modified proctor density conforming to relevant IS etc. complete as directed by Engineer In charge.<br>Note:<br>1) The rate includes the royalty and other taxes if any.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | cum  |         |
| 5      | R3-CS-EW-25         | Providing and Laying 230mm thick Rubble Stone for Pitching on sloping ground or wherever directed, properly arranging and placing the rubble stones to achieve a plane top surface, set in regular line & slope, including breaking, laying gravel, quarry spells underneath and manually packing the voids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | cum  |         |
|        |                     | with rubble chips, tuck pointing with cement mortar 1:2 up to 25mm deep, etc. complete as specified & as directed.<br>(Note: The rate includes the royalty and other taxes if any)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |         |
|        |                     | <b>Concrete work</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |         |

|    |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |  |
|----|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--|
| 6  | R3-CS-CW-3     | Providing and laying in position ready mixed plain cement concrete, with cement content as per approved design mix by Engineer-in-charge and manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for plain cement concrete work, including pumping of R.M.C. from transit mixer to site of laying and curing, including the cost of centering, shuttering and finishing, including cost of curing, admixtures in recommended proportions as per IS : 9103 to accelerate/retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer-in-charge.                                                                                                                                                                                                                                                                                                                                                                                   |     |  |
|    | R3-CS-CW-3-a   | All works upto plinth level.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |  |
| 7  | R3-CS-CW-3-a-1 | M-20 grade plain cement concrete (cement content considered @ 260 kg/cum as per IS 456 table showing minimum cement content).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Cum |  |
|    |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |  |
|    | R3-CS-CW-7     | Providing and laying in position ready mixed design mix M-20 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying and the cost of centering, shuttering, finishing and excluding reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. The Mix design as per particular specifications shall be got approved by Engineer-in-Charge before execution of the item. The rate shall include cost of all specified materials and operations at all levels and heights, including the cost of centering, shuttering and excluding reinforcement which shall be paid under relevant item. (Note :- Cement content considered in this item is @ 300 kg/cum as per IS 456 table showing minimum cement content. No extra will be paid nor any amount will be recovered on account of variation of cement in mix design as per specifications for controlled concrete). |     |  |
|    |                | All works (including Centering & Shuttering)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |  |
| 8  | R3-CS-CW-7-a   | Foundations, footings, bases of columns, rafts, pilecap                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Cum |  |
| 9  | R3-CS-CW-7-b   | Walls (any thickness) including attached buttresses, retaining wall, shear wall, diaphragm wall, trench, pit walls, etc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Cum |  |
| 10 | R3-CS-CW-7-c   | Slabs, Suspended floors, roofs, landings, balconies, canopy and access platform                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Cum |  |
| 11 | R3-CS-CW-7-d   | Lintels, beams, plinth beams, girders, floor beam, coping.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Cum |  |
| 12 | R3-CS-CW-7-e   | Columns, Pillars, Piers, Posts and Struts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Cum |  |
| 13 | R3-CS-CW-7-f   | Stairs (waist slab), folded slab, inclined slab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Cum |  |
| 14 | R3-CS-CW-7-g   | Spiral staircases (including landing).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Cum |  |
| 15 | R3-CS-CW-16    | Extra and over for providing richer RMC of M-25 grade cement concrete instead of M20 (Note :- Cement content considered in this item is @ 330 kg/cum as per IS 456 table showing minimum cement content.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Cum |  |
| 16 | R3-CS-CW-17    | Extra and over for providing richer RMC of M-30 grade cement concrete instead of M20 (Note :- Cement content considered in this item is @ 340 kg/cum as per IS 456 table showing minimum cement content.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Cum |  |

|    |             |                                                                                                                                                                                                           |     |  |
|----|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--|
| 17 | R3-CS-CW-18 | Extra and over for providing richer RMC of M-35 grade cement concrete instead of M20 (Note :- Cement content considered in this item is @ 350 kg/cum as per IS 456 table showing minimum cement content.) | Cum |  |
| 18 | R3-CS-CW-19 | Extra and over for providing richer RMC of M-40 grade cement concrete instead of M20 (Note :- Cement content considered in this item is @ 360 kg/cum as per IS 456 table showing minimum cement content.) | Cum |  |

|    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |                             |
|----|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------|
| 19 | R3-CS-CW-20     | Extra and over for providing richer RMC of M-45 grade cement concrete instead of M20 (Note :- Cement content considered in this item is @ 435 kg/cum as per IS 456 table showing minimum cement content.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Cum        |                             |
| 20 | R3-CS-CW-21     | Extra and over for providing richer RMC of M-50 grade cement concrete instead of M20 (Note :- Cement content considered in this item is @ 450 kg/cum as per IS 456 table showing minimum cement content.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Cum        |                             |
|    | R3-CS-CW-35     | Providing and fixing in position steel bars reinforcement of various diameters for R.C.C. pile, pile caps, footings,raft,retaining wall,shear wall, lift wall, foundations, slabs, beams, columns, canopies, staircases, newels, chajjas, lintels, pardies, coping, fins, arches, etc. as per detailed designs, drawings and bar bending schedules,including straightening, cutting, bending, hooking the bars, binding with wires or tack welding, supporting as required etc. all complete at all levels.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            |                             |
| 21 | R3-CS-CW-35-E   | Corrosion Resistant Steel (500 CRS D)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | MT         |                             |
|    |                 | <b>Piling work</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |                             |
| 22 | R3-CS-PLG-5.1   | specified diameter and fabricated from 6.0mm to 8.0mm thick plates as per detailed drawings and designs including cutting, bending to required shape, welding, painting with Red Oxide paint etc. complete as specified and Directed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | MT         | For pile foundation if req. |
|    | R3-CS-PLG-1-1   | (Part 1, Section 2) by boring through all kinds of soils/ Sand /Rock by rotary hydraulic rigs using temporary casing up to stable strata / bentonite mud circulation as specified, from tip to cut-off elevation of piles. Reinforced Cement Concrete work of filling the bore (after placement of reinforcement cage as per drawing) with M25 grade Ready Mix Concrete using 43 Grade Ordinary Portland Cement confirming to IS : 8112, of approved make and brand with minimum cement content of 400 kg/m3 and with water -cement ratio, including the water contained in aggregates (10mm to max 20mm size), not exceeding 0.45, with approved plasticizer as specified, including placing of concrete from tip to minimum of 600mm above the specified cutoff level, breaking pile head to cutoff level and exposing pile reinforcement for embedment in pile cap, Disposing & levelling of bored/excavated material suitably at locations approved by the local authorities including all lead and lifts, all complete for piles having diameter of (Pile will be measured for payment for length between pile tip to cut-off level along the pile axis. Reinforcement shall be Note : Cost of temporary casing s phaaildl Bsee pinacruarterelyd) by the Contractor. |            |                             |
| 23 | R3-CS-PLG-1-1-a | 500 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Rmt        |                             |
| 24 | R3-CS-PLG-1-1-b | 600 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Rmt        |                             |
| 25 | R3-CS-PLG-1-1-c | 750 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Rmt        |                             |
| 26 | R3-CS-PLG-1-1-d | 900 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Rmt        |                             |
|    | R3-CS-PLG-2-3   | <b>Extra over rate for items CS-PLG-1 &amp; 2 for using M35 instead of M 25</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |                             |
| 27 | R3-CS-PLG-2-3-a | 400 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Rmt        |                             |
| 28 | R3-CS-PLG-2-3-b | <b>450 mm</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Rmt</b> |                             |
| 29 | R3-CS-PLG-2-3-c | <b>500 mm</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Rmt</b> |                             |
| 30 | R3-CS-PLG-2-3-d | <b>600 mm</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Rmt</b> |                             |

|    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |                                |
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| 31 | R3-CS-PLG-2-3-e | 750 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Rmt |                                |
| 32 | R3-CS-PLG-2-3-f | 900 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Rmt |                                |
| 33 | R3-CS-PLG-14    | Carrying out low strain pile integrity test on 300mm / 350 mm / 400mm diameter pile including all arrangements for test, equipments/accessories, materials, labour, submission of test report etc but excluding the cost of installation of job pile (installation of pile shall be paid separately as per relevant items) all complete as per specification and as directed by the engineer-in-charge.                                                                                                                                                                           | Nos | All pile should be tested.     |
| 34 | R3-CS-PLG-14.1  | 450 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Nos |                                |
| 35 | R3-CS-PLG-14.2  | 500 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Nos |                                |
| 36 | R3-CS-PLG-14.3  | 600 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Nos |                                |
| 37 | R3-CS-PLG-14.4  | 750 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Nos |                                |
| 38 | R3-CS-PLG-14.5  | 900 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Nos |                                |
|    | R3-CS-PLG-21    | Conducting routine vertical load test for 1.5 times safe load carrying capacity by means of High Strain Dynamic Load Test including provision and erection of crane- hammer-drop mechanism, acceleration and displacement velocity transducers to record both force and velocity including excavation, dewatering, preparation of pile head including building up of pile, additional reinforcement if any etc. all complete as per approved method (ASTM D4945-89), submission of test report, specifications and instructions of the Engineer for piles of following diameter : |     | Min. 5% of total no. Of piles. |
| 39 | R3-CS-PLG-21.1  | 400 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Nos |                                |
| 40 | R3-CS-PLG-21.2  | 450 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Nos |                                |
| 41 | R3-CS-PLG-21.3  | 500 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Nos |                                |
| 42 | R3-CS-PLG-21.4  | 550 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Nos |                                |
| 43 | R3-CS-PLG-21.5  | 600 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Nos |                                |
| 44 | R3-CS-PLG-21.6  | 750 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Nos |                                |

|    |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |                                           |
|----|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------------------------|
| 45 | R3-CS-PLG-21.7 | 900 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Nos |                                           |
|    | R3-CS-PLG-20   | Carrying out <b>Lateral Load Test</b> on single working pile up to maximum test load of <b>one and half times the safe load capacity</b> as specified in accordance with <b>IS 2911 part-4</b> including all necessary arrangements such as jacks, measuring devices, submission of test report etc. complete as required. (For this test two working piles will be considered as test piles. Arrangements shall be made to record deflection, etc. of both the piles. However, testing both these piles will be considered as one test only. |     | Min. 5% of total no. Of piles.<br><br>148 |



|    |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |         |
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| 46 | R3-CS-PLG-20.1 | 400 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Nos |         |
| 47 | R3-CS-PLG-20.2 | 450 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Nos |         |
| 48 | R3-CS-PLG-20.3 | 500 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Nos |         |
| 49 | R3-CS-PLG-20.4 | 550 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Nos |         |
| 50 | R3-CS-PLG-20.5 | 600 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Nos |         |
| 51 | R3-CS-PLG-20.6 | 750 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Nos |         |
| 52 | R3-CS-PLG-20.7 | 900 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Nos |         |
|    | R3-CS-PLG-22   | Supplying Hot Rolled steel sheet piles having properties described in respective specifications or/ and shown in drawings (Z or U type with sectional modulus of minimum 2500 cm <sup>3</sup> , steel grade S430 GP with minimum yield strength of 430 MPa, minimum thickness 12.0 mm thickness, with Larssen interlocks and applying recommended sealant for complete watertightness (if required) & using suitable corner sections as per site condition) .Installing the same to line and level including making reformed steel sheet piles at required positions as corners, junction, wedges etc. as per approved drawing and specification in single or group jointing by welding properly, installing vertically along the alignment with the help of equipments like air compressors,exca- vator mounted / crane mounted vibro hammers / Impact Hammers / Hydraulic Pressing Hammers / vibrating drives powered by electric or hydraulic motor or combination of both based on the site requirements through the grooves to interlock together, wedges to make up for the permissible deviation of piles from the plumb lines caused during pile driving, slipped piles with the adjacent ones are found or loosened or dislocated during or after installation , sheet piles shall be pulled out and replaced with new ones or redone including necessary modifica- tion to the sheet pile to suit the grove of existing sheet piles , including cost and conveyance of all materials, hire charges of equipments, hire charges of crane/rigs, cost of electrodes, mobilisation and demobilisa- tion charges, all labour, other incidentals etc complete. ( No extra pay- ment shall be made for cost of extraction and replacement for in- stalling of sheet pile deviating the specification or rejected by Engi - neer -in-charge. The rate is inclusive of providing guide frames, cost of installation pit, formation and removal of earthen bund etc.). Pay- ment shall be made on actual depth of sheet pile installation. |     | If req. |
| 53 |                | Permanent sheet piles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |         |
|    | R3-CS-         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |         |

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|----|----------------|--------------------------------------------|-----|--|
| 54 | PLG-22.1       | (a) For depth 0 to 5 m below ground level  | Sqm |  |
| 55 | R3-CS-PLG-22.2 | (b) For depth 0 to 10 m below ground level | Sqm |  |
| 56 | R3-CS-PLG-22.3 | (c) For depth 0 to 15 m below ground level | Sqm |  |
|    |                | <b>Water proofing</b>                      |     |  |

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| 57 | R3-CS-AT-01   | Providing Pre-constructional anti-termite treatment conforming to IS-6313 (part II) using chloropyrifos EC 20 Emulsion or equivalent of 1% concentration by weight for creating barrier under and all around foundation pits, wall trenches, basement excavation, backfill in immediate contact with foundation and treating the top surface of plinth filling, junction of wall & floor, along the external perimeter of building, expansion joints, surrounding of pipes, water conduits and at places suggested and as directed by Engineer-In-Charge covering 10 years guaranty. (plinth area should be considered for measurement and payment.)                                                                                                                                                                                                                                                                                                                                                                                | Sqm |                                                     |
| 58 | R3-CS-WP-20   | Providing and laying damp-proof course 50mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5mm nominal size) including water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Sqm |                                                     |
| 59 | R3-CS-WP-33   | Providing waterproofing treatment from outside to basement lift-pits and other under ground structures during construction. The treatment shall be started after the P.C.C. bedding for the base slab or raft slab is laid. On the P.C.C. bedding a waterproofing layer based on cement with rough shahabad stones of 20 to 25 mm thick well pointed in the joints with 1:3 C.S. 40 mm thick for floors and 20 mm thick for sides with cement float and water proofing compound as per specifications shall be laid. Then the surface shall be superimposed by regular R.C.C. raft or base slab as per design. After completion of the raft / base slab and side walls the treatment of waterproofing layer shall be continued along the outer surface of the walls upto a height of 30 cm above the adjacent ground level. (The excavation of the side around the walls shall be filled with soft earth by the contractor ). The total thickness of the treatment shall be 65 mm to 75 mm for floors and 32 mm to 38 mm for walls. | Sqm | For lift pit, basement & under ground storage tank. |
|    |               | Note: (a) Where no space is available on the outer side of the walls, the following procedure shall be adopted :- Brick masonry walls of adequate strength shall be provided by the contractors at the outside level of the walls of basement. The treatment shall then be done as described above for flooring and on the inner face of the brick masonry upto a height of 30 cm above adjoining ground level. The surface shall then be superimposed by regular R.C.C.raft slab and walls. The thickness of the treatment for floor and walls shall be same as stated above.                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |                                                     |
| 60 | R3-CS-WP-27-a | Waterproofing the terrace slab and staircase roof slab with average 100 mm thick concrete of broken brick bats and cement mortar (1:4) in the proportion of 2 parts of brick bats and 1 part of mortar, laid in proper slope (1:100) well rammed, watered and consolidated with vata 15 cm at junction of walls and Indian patent stone flooring 1:2:3 (12.5 mm chips) 40 mm thick and with admixture of approved water proofing compound as per manufacturers specifications laid after grouting the surface of brickbat coba with neat cement slurry in alternate suitable squares to required slope as directed including filling in joints with bitumen and cleaning the slab top of all dust and loose material; tamping, finishing and curing complete as directed and specified. (Horizontal measurements clear between walls will be paid for).                                                                                                                                                                             | Sqm |                                                     |
|    |               | NOTE:<br>(1) Expansion joints to be provided for the full depth.<br>(2) Expansion joints to be so provided that the area of each bay does                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |                                                     |

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|    |               | not exceed 10 Sqm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                            |
| 61 | R3-CS-WP-38-a | Providing waterproofing treatment through specialized agencies to the dado portion of the R.C.C. side walls upto 1.5 m height from floor area of water closets, bath-rooms, kitchens, washing places, sanitary blocks etc. by giving „INJECTIONS“ treatment with waterproofing compound and cement solution. The walls will then be plastered with waterproof cement plaster in 1:4 c.s. 12 mm to 15 mm thk. Finally the walls shall be covered with jointless waterproof plaster in 1:3 c.s. 12 to 15 mm thick finished rough for receiving tiles. The average thickness of complete treatment shall not be less than 25 mm. (The actual treated area will be measured and paid for). | Sqm | For dado of WC, Bath, washing places & kitchen, etc. Upto full height. 150 |

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|----|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------------|
| 62 | R3-CS-WP-38-b | Do- -Do- brickwall without injection treatment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Sqm |                               |
| 63 | R3-CS-WP-37   | Providing waterproofing treatment through specialized agencies as per their specifications to the flooring of water closets, bathrooms, kitchen, nahanies, washing places, sanitary blocks etc. by giving IN- JECTIONS with cement solution with water proofing compound into the floor slab so as to make it consistent, homogeneous and impervi- ous against leakage, seepage etc. The sunk portion shall then be cov- ered with brickbat waterproof coba in 1:5 c.s. of required thickness with necessary gradient for easy flow of water. Finally the floor shall be covered with joint less waterproof cement plaster in 1:3 c.s. 12 mm to 15 mm thick finished rough for receiving tiles. The average thick- ness of complete treatment shall not be less than 100 mm. The soil panarea will not be deducted. ( After completion of work leakage test shall be carried out after impounding the water for 7 days without any extra cost. The actual treated area will be measured and paid for). | Sqm |                               |
|    |               | <b>Masonry work</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |                               |
|    | R3-CS-MW-1    | Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 3.5 and above in foundation and plinth in:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     | Brickwork upto plinth level.  |
| 64 | R3-CS-MW-1-a  | Cement mortar 1:3 (1 cement : 3 coarse sand)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Cum |                               |
| 65 | R3-CS-MW-33   | Providing and laying autoclaved aerated (cellular) cement blocks masonry with more than 100 mm thick AAC blocks in cement mortar 1:4 (1 cement : 4 coarse sand ) including RCC stiffeners. The rate includes providing and placing in position 2 Nos 6 mm dia M.S. bars at every third course of masonry work, racking of joints, scaffolding and curing,etc. completed as directed by Engineer-in-Charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Cum | Brickwork for superstructure. |
|    |               | <b>Plaster</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |                               |
| 66 | R3-CS-PL-03   | Providing and applying 6 mm thick internal ceiling plaster in single coat in cement mortar 1:3 with white cemetecious wall putty (Birla white or equivalent) finish at all heights and locations for concrete sur-faces including hacking of concrete surface, watering, finishing, curing, scaffolding etc. complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Sqm | All ceiling plaster.          |
|    | R3-CS-PL-08   | Providing and applying 20 mm thick internal sand faced cement plaster at all heights and locations in cement mortar specified below in two coats for masonry (except stone masonry) and concrete surfaces including racking out joints, hacking of concrete surface, watering, finishing, curing, scaffolding etc complete as directed By Engineer In Charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     | All internal plaster.         |
| 67 | R3-CS-PL-08-a | In cement mortar 1:2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Sqm |                               |

|    |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |                       |
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|    | R3-CS-PL-17   | Providing and applying 25 mm thick external sand faced cement plaster with neat cement rendering upto 10m from ground level and at all locations in cement mortar proportion specified below in two coats for masonry (except stone masonry) and concrete surfaces including providing <b>water proofing</b> compound to the first coat of plaster as per manufacturers specification, racking out joints, hacking of concrete surface, finishing, curing, scaffolding etc complete as directed By Engineer In Charge. Min. time lag between two coats shall be 24 hours.(as per IS 2402 of 1963.) |     | All external plaster. |
| 68 | R3-CS-PL-17-a | In Cement mortar 1:1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Sqm | 151                   |

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| 69 | R3-CS-PL-25     | Extra for every additional height of 3 m or part thereof above 10m from ground level for all types of external plastering.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Sqm | For external plaster only.  |
|    | <b>R3-CS-PN</b> | <b>PAINTING WORKS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |                             |
|    |                 | Note:-<br>1) Rates of all the items in painting section are inclusive of staging or scaffolding wherever necessary of any height for internal painting and upto 10m height from ground level for external painting. Refer separate item for additional external painting work above 10m from ground level.<br>2) The manufacturer's representative should be present when the work of waterproof cement paint is being carried out and guide to the labour staff of the contractors as regards the proportion of the mix of paint and water and method of applying the paint etc. is concerned.<br>3) The contractors must produce a certificate from the manufacturers that the work is carried out satisfactorily under the supervision of representative of the manufacturers and that requisite quality and quantity of cement paint as being actually used on the particular work and that the entire work has been carried out in a satisfactory and workmen like manner. |     |                             |
| 70 | R3-CS-PN-1      | Providing and applying three coats of White/colour wash to any surface with lime wash prepared from quick lime of best quality by adding blue/colour pigments and glue of approved colour, quality in required quantities at all height and locations as directed including scaffolding, cleaning and preparing surfaces for painting with broom, coir and sand paper if necessary or by any other approved means etc. complete as directed by Engineer-in-charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Sqm | For lift pit, refuse area.  |
| 71 | R3-CS-PN-6      | Providing and applying first single coat of approved primer and two coats of luster paint of an approved make and colour as per manufacturers specifications to any surface, at all height and locations as directed including scaffolding, cleaning and preparing surfaces for painting by any approved means etc. complete as directed by Engineer-in-charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Sqm | for internal surface paint. |
| 72 | R3-CS-PN-15     | Extra over item no. CS-PN-7 to CS-PN-12 on exterior painting work of height more than 10 m from ground level for additional height of 3m or part thereof.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Sqm |                             |
|    | R3-CS-PN-4      | Providing and applying first single coat of approved primer and two coats of synthetic enamel paint/flat oil paint of an approved make and colour as per manufacturers specifications to surfaces specified below, at all height and locations as directed including scaffolding, cleaning and preparing surfaces for painting by any approved means etc. complete as directed by Engineer-in-charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     | For WC, bath ceiling.       |
| 73 | R3-CS-PN-4-a    | For plastered wall surface                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Sqm |                             |
| 74 | R3-CS-PN-10     | Providing and applying first coat of approved Waterproof primer, and two coats of waterproof acrylic based textured exterior paint of an approved make and colour as per manufacturers specifications to textured sand faced or other surfaces, upto 10m height from ground level and at all locations as directed including preparing surfaces for painting by any approved means, scaffolding, cleaning and curing etc. complete as directed by Engineer-in-charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Sqm | For external surface paint. |

|    |                 |                                                                                                                                                                                                                                                                                    |    |  |
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|    |                 | plete as directed by Engineer-in-charge.                                                                                                                                                                                                                                           |    |  |
|    | R3-CS-PN-17     | Lettering or numbering of 65 mm to 75mm height with synthetic enamel paint in any approved colour, style and pattern, including french polishing or synthetic enamel painting the back ground with three coats of approved colour etc. complete as directed by Engineer-in-charge. |    |  |
| 75 | R3-CS-PN-17-b   | With synthetic enamel / oil paint of golden colour                                                                                                                                                                                                                                 | No |  |
|    | <b>R3-CS-FL</b> | <b>FLOORING WORKS</b>                                                                                                                                                                                                                                                              |    |  |

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|    |               | Notes:<br>1) All the rates are include all necessary conveyance and delivery, handling, unloading, storing, fabrication, hoisting, scaffolding, lead, lift, all labour for finishing to required shape and size, setting, fitting and fixing in position, straight cutting and waste, return of package and other incidental operations.                                                                                                                                                                                                            |     |                                                                                    |
|    | R3-CS-FL-01   | Providing and laying polished natural stone as specified below (Machine cut) of an approved quality and size for paving /flooring in plain and/or diamond /approved pattern including cement mortar bedding of 25 mm thick in 1:4 proportion, cement float, machine cutting, dressing, leveling, jointing, filling the joints with neat cement slurry or with required pigment, machine polishing at site, curing, finishing, etc complete as directed by Engineer In Charge.                                                                       |     |                                                                                    |
| 76 | R3-CS-FL-01-c | 25 to 30 mm thk. Kota stone of size 0.430m x0.56m (17"x22")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Sqm | For flooring of common passage, refuse area, machine rooms, staircase landing etc. |
| 77 | R3-CS-FL-01-l | 18 mm thk. Steel Gray Granite tiles/slab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Sqm | For entrance lobby flooring.                                                       |
|    | R3-CS-FL-07   | Providing and laying 8mm thk. ceramic tiles as specified below conforming to I.S.15622-2006 for flooring of an approved, quality, make, size and pattern /design, for flooring including cement mortar bedding of 25 mm thick in 1:4 proportion, neat cement float, cutting, leveling, jointing, filling the joints by neat cement slurry or approved colour grout, curing, finishing etc complete as directed by Engineer In Charge.                                                                                                               |     |                                                                                    |
| 78 | R3-CS-FL-07-c | Light coloured antiskid / matt ceramic tiles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Sqm | For WC, bath & washing places.                                                     |
|    | R3-CS-FL-9    | Providing and laying 800 x 800 x 10 mm thk. vitrified tiles as specified below conforming to I.S.15622-2006 with water absorption less than 0.08% for flooring of an approved, quality, make, pattern and size for flooring including cement mortar bedding of 25 mm thick in 1:4 proportion, cutting, leveling, jointing, filling the joints by neat cement slurry or approved colour grout, curing, finishing etc complete as directed by Engineer In Charge.                                                                                     |     |                                                                                    |
| 79 | R3-CS-FL-9-a  | Light coloured glazed vitrified tiles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Sqm | Inside flat area flooring.                                                         |
|    | R3-CS-FL-21   | Providing and fixing polished natural stone tiles /slab as specified below of approved quality, pattern and colour for flush/projected skirting and risers including preparing the surface and levelling in the desired line, backing of 20 thk. cement mortar in porportion 1:3, square cut top edge or chamfered top edge in cement mortar 1:3, cement float, machine cutting, leveling, jointing, filling the joints with neat cement or pigment mixed with cement, polishing, finishing, curing etc complete as directed by Engineer In Charge. |     |                                                                                    |

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| 80 | R3-CS-FL-21-d | 15 to 20mm thk. Kota stone for height upto 150 mm | Rmt | Scurling For common passage, refuse floor area, machine rooms, staircase landing & staircase risers etc. |
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|    | R3-CS-FL-26   | Providing and fixing 10mm thk. vitrified tiles as specified below conforming to I.S. 15622-2006 of approved quality, pattern and colour for flush/projected skirting and risers including preparing the surface and levelling in the desired line, backing of 20 thk. cement mortar in proportion 1:3, square cut top edge or chamfered top edge in cement mortar 1:3, cement float, machine cutting, leveling, jointing, filling the joints with neat cement slurry or pigments mixed with cement, finishing, curing etc complete as directed by Engineer In Charge.                                                                                                                                                                                                                                                                                                                                  |     | Scurting for inside flat area.                                         |
| 81 | R3-CS-FL-26-a | Light coloured glazed vitrified tiles for height upto 150mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Rmt |                                                                        |
| 82 | R3-CS-FL-21-o | 15 to 20mm thk. Kota stone for height upto 300 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Rmt | For staircase trade, sill refuse floor area scurting.                  |
|    | R3-CS-FL-34   | Providing and fixing 8mm thk. ceramic tiles as specified below conforming to I.S. 15622-2006 of approved quality, pattern and colour for dado in the dry area including preparing the surface and levelling in the desired line, backing of 20 thk. cement mortar in proportion 1:3, square cut top edge or chamfered top edge in cement mortar 1:3, cement float, machine cutting, leveling, jointing, filling the joints with neat cement slurry or approved colour grout, finishing, curing etc complete as directed by Engineer In Charge.                                                                                                                                                                                                                                                                                                                                                         |     |                                                                        |
| 83 | R3-CS-FL-34-a | Light coloured glazed ceramic tiles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Sqm | For dado of WC, Bath, washing places & kitchen, etc. Upto full height. |
|    | R3-CS-FL-39   | Providing and fixing rough natural stone slab as specified below of approved quality, pattern and colour for treads including preparing the surface and levelling in the desired line, in cement mortar 1:4, cement float, machine cutting, leveling, jointing, smooth cement plastering along the sides to match the existing surface in cement mortar 1:3, filling the joints with neat cement or pigment mixed with cement, polishing, finishing, curing etc complete as directed by Engineer In Charge.                                                                                                                                                                                                                                                                                                                                                                                            |     |                                                                        |
| 84 | R3-CS-FL-39-e | Ruby red, jet black, Hasan green Granite for width upto 300 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Rmt | For window frames, lift entrance frame                                 |
|    | R3-CS-FL-46   | Providing and constructing raised platform of 750 mm wide and 600 to 750mm high using minimum 40mm thick polished kadappa stone slab base with minimum 15mm thk. polished stone top as specified below of approved quality, colour and texture, supported by both side polished, 40mm thk. and minimum 700mm wide kadappa spaced at not more than 1200mm clear, including polished fascia of min. 100mm height as specified below with champhered/ rounded at the top edges, jointing in approved adhesives, machine cutting, making opening for sink and fixing the same in position, leveling, smooth cement plastering along the sides to match the existing surface in cement mortar, filling the joints with pigment mixed with cement, cleaning, finishing, curing etc complete as directed by Engineer In Charge.<br>(The cost of providing the sink shall be paid extra as per plumbing items) |     |                                                                        |
| 85 | R3-CS-FL-46-c | Ruby red / jet black / Hasan green Granite slab at top and fascia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Rmt | Kitchen platform.                                                      |

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| 86 | R3-CS-FL-56   | Rounding the edge in quarter round shape of the stonework specified below including high gloss machine polishing as directed by Engineer In Charge. Shahbad stone/ Kadappa stone/ Tandur stone/ Kota stone/ Any type of marble/ Any type of Granite stone                                                                                                                                                                                                                                                      | Rmt | For window frames, lift entrance frame. |
| 87 | R3-CS-FL-57   | Rounding the edge in half round shape of the stonework specified below including high gloss machine polishing as directed by Engineer In Charge. Shahbad stone/ Kadappa stone/ Tandur stone/ Kota stone/ Any type of marble/ Any type of Granite stone                                                                                                                                                                                                                                                         | Rmt | For kitchen platform.                   |
| 88 | R3-CS-FL-55   | Mirror Polishing on marble work/ granite work/ stone work to give high gloss finish including levelling the surface neat, cleaning etc. complete as directed by Engineer In Charge                                                                                                                                                                                                                                                                                                                             | Sqm |                                         |
|    | R3-CS-FL-04   | Providing and laying rough natural stone tiles 25 mm to 30 mm thick of an approved quality and size for paving / flooring including cement mortar bedding of 25 mm thick in 1:4 proportion, cement float, pointing in cement mortar 1:3, cutting, dressing, leveling, jointing, pointing, curing, finishing etc complete as directed by Engineer In Charge.                                                                                                                                                    |     |                                         |
| 89 | R3-CS-FL-04-e | 25 to 30 mm thk. rough Ruby red, jet black, Hasan green granite stone                                                                                                                                                                                                                                                                                                                                                                                                                                          | Sqm | For entrance lobby floor.               |
|    | R3-CS-FL-28   | Providing and fixing polished natural stone tiles as specified below of approved quality, pattern and colour for dado including preparing the surface and levelling in the desired line, backing of 20 thk. cement mortar in porportion 1:3, square cut top edge or chamfered top edge in cement mortar 1:3, cement float, machine cutting, leveling, jointing, filling the joints with neat cement or pigment mixed with cement, polishing, finishing, curing etc complete as directed by Engineer In Charge. |     |                                         |
| 90 | R3-CS-FL-28-1 | 18mm thk. Ruby red, jet black, Hasan green Granite                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Sqm | For entrance lobby dado.                |
| 91 | R3-CS-FL-15   | Providing and fixing 50 mm thick precast concrete interlocking paving block of concrete grade M30 for non traffic areas like footpath, paving etc. and as per the approved size, pattern, shape, colour, make, conforming to IS 15658, including 30mm thick sand bedding and edge confinements in cement mortar 1:3, laying in perfect line and grade etc. complete.                                                                                                                                           | Sqm | Building surrounding area wherever req. |
|    |               | <b>Wood works</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |     |                                         |
|    | R3-CS-WW-06   | Providing and fixing superior quality single leaf B.W.P. grade solid core flush door shutters of standard make conforming to IS:2202- 1991 (Part I & II) including one coat of primer, putty and 2 coats of synthetic enamel paint on both faces etc. with 12 mm thk teak wood lipping all around all around etc. complete (Hinges, aldrip & standard door hardware to be paid separately)                                                                                                                     |     |                                         |
| 92 | R3-CS-WW-06-B | 30mm thick shutter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Sqm |                                         |
| 93 | R3-CS-WW-06-C | 35mm thick shutter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Sqm | Bedroom door.                           |
| 94 | R3-CS-WW-06-D | 40mm thick shutter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Sqm | Main door.                              |



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| 95  | R3-CS-PV-05   | made of styles and rails of a UPVC hollow section of size 59x24 mm and wall thickness 2 mm $\pm$ 0.2 mm with inbuilt edging on both sides. The styles and rails mitred and joined at the corners by means of M.S. galvanised/plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm $\pm$ 0.1 mm wall thickness. The lock rail made up of 'H' section, a UPVC hollow section of size 100x24 mm and 2 mm $\pm$ 0.2 mm wall thickness fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a UPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm $\pm$ 0.1 mm wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, as per manufacturer's specification etc. complete as directed. (For W.C. and bathroom door shutter). | Sqm | For WC, bath & washing places. |
| 96  | R3-CS-PV-07   | Providing and fixing factory made P.V.C. door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet mitred at corners and joined with 2 Nos. of 150mm long brackets of 15x15mm M.S. square tube, the vertical door profiles to be reinforced with 19x19mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100mm size as per manufacturers specification etc. complete as directed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Rmt | For WC, bath & washing places. |
| 97  | R3-CS-WW-31   | Providing and fixing <b>fire doors with 2 hour</b> fire rating conforming to IS: 3614 (Part 2), BS 476 (Parts 20 & 22), ISO 834 ; 45 mm thick fully flush, double skin door shell with lock seam joints at stile edges made from 1.25 mm thick galvanized steel sheet including door frames made from 1.6 mm thick galvanized steel sheet formed to double rebate profile of size 143 mm x 57mm as per manufacturer's instructions, door frames and shutter primed with Zinc Phosphate stoving Primer and finished with Polyurethane Aliphatic grade or epoxy paint including ironmongery consisting of stainless steel ball bearing butt hinges 3 mm thick fixed flush to the frame and shutter, full width horizontal handles (panic bar), concealed flush bolts, door closers, other standards fixtures and fasteners, etc. complete for the following clear opening sizes:                                                                                                                                                                                                    | Sqm | For staircase doors, etc.      |
|     |               | Item to include all necessary fixtures and fastenings [ fire rated ] including heavy duty SS hinges min 4 per shutter, tower bolts, door stoppers, handles, mortise lock, push plates, kick plates, door closers, etc. Complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     |                                |
|     |               | Single leaf shutter without glass vision panel.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |                                |
| 98  | R3-CS-WW-13   | Providing and fixing vision panel of size 300mm x 300mm in any type of door with 6mm thick glass including T.W. beading etc. complete as directed by Engineer in charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | No. | For staircase doors, etc.      |
|     |               | <b>Hardware</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |                                |
|     | R3-CS-HW-01   | Providing and fixing <b>mortise lock</b> of approved make manufactured as per IS:2209 and 6607 and as described below for doors with necessary fixtures and materials and labour etc. complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |                                |
| 99  | R3-CS-HW-01-C | Chromium plated Brass mortice latch and lock with round knob                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Nos | Main door 1 per flat.          |
|     | R3-CS-HW-02   | Providing and fixing <b>peep hole</b> as described below manufactured as per IS wherever applicable for doors with necessary fixtures and materials and labour etc. complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |                                |
| 100 | R3-CS-HW-02-C | Brass peep hole                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Nos | Main door 1 per flat.          |
|     |               | Providing and fixing <b>door stopper</b> as described below of ap-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |                                |



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|     | R3-CS-HW-03     | proved make manufactured as described below and as per IS:1823- 1992 for doors with necessary materials and labour cost etc. complete.                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |                                                              |
| 101 | R3-CS-HW-03-C   | Stainless steel door stopper                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Nos | All doors.                                                   |
|     | R3-CS-HW-04     | Providing and fixing <b>butt hinges</b> as described below, manufactured as per relevant IS for door & windows with necessary materials and labour costs etc. complete.                                                                                                                                                                                                                                                                                                                                                                                                                          |     |                                                              |
| 102 | R3-CS-HW-04-d-3 | 125 mm Long                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Nos | For WC, bath & washing places doors.                         |
| 103 | R3-CS-HW-04-d-4 | 150 mm Long                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Nos | For main doors, staircase doors.                             |
|     | R3-CS-HW-06     | Providing and fixing <b>aldrops of 16 mm diameter bars</b> manufactured as per IS:2681-1991, wherever they apply for doors and windows with necessary materials and labour etc. complete.                                                                                                                                                                                                                                                                                                                                                                                                        |     |                                                              |
| 104 | R3-CS-HW-06-d-1 | 250 mm long.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Nos | For WC, bath & washing places doors on both sides.           |
| 105 | R3-CS-HW-06-d-2 | 300 mm long.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Nos | For main doors, bedroom doors staircase doors on both sides. |
|     | R3-CS-HW-09     | Providing and fixing <b>handles</b> as described below, manufactured as per IS:208-1992 for doors and windows and with necessary materials and fixtures like screws etc. and all labour etc. complete.                                                                                                                                                                                                                                                                                                                                                                                           |     |                                                              |
| 106 | R3-CS-HW-09-d-2 | 150 mm long.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Nos | For WC, bath & washing places doors on both sides.           |
| 107 | R3-CS-HW-09-d-3 | 200 mm long.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Nos | For main doors, bedroom doors staircase doors on both sides. |
|     | R3-CS-HW-08     | Providing and fixing <b>tower bolts</b> as described below conforming to IS:204-1992 (Part I,II) for doors & windows with necessary materials and labour etc. complete.                                                                                                                                                                                                                                                                                                                                                                                                                          |     |                                                              |
| 108 | R3-CS-HW-08-c-3 | 200 mm long.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Nos | For main doors, bedroom doors staircase doors.               |
| 109 | R3-CS-HW-19     | Providing and fixing stainless steel door chain including necessary stainless steel screws etc complete as directed by Engineer In Charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No. | For main doors 1 per flat.                                   |
|     |                 | <b>Aluminium work</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |                                                              |
| 110 | R3-CS-AW-02     | Providing and fixing in position three track aluminum window of extruded modular and anodized aluminum sections of approved make and of size 92 mm x 45.5 mm x 1.5 mm thk (wt 1.659 kg/Rm) for bottom and 92 mm x 31.75 mm x 1.3 mm thk. (wt 0.933 kg/Rm) for top and sides mounted on anodized aluminum rectangular frame of size 100mm x 40mm x 1.3mm.(Wt 0.976 kg/m) The shutter comprising of bearing bottom and top of size 40mm x 18 mm x 1.25 mm thk (wt. 0.417 Kg/Rm) Interlocking section of size 40mm x 26.7 mm x 1.10 mm thk. (Wt. 0.469 kg./Rm) and hand sides of 40mm x 18mm x 1.25 | Sqm | For bedroom windows with 1 mosquito net                      |

|     |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |                                                                      |
|-----|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------|
|     |               | mm thk (wt. 0.417kg/Rm) with 5 mm thick plain / frosted / tinted glass fixed in shutter including approved quality neoprene gasket, fixtures, fastenings and accessories like PVC rollers, PVC weep holes, locks, handles etc. complete as directed by Engineer In Charge. (Note: anodic film must not be less than 15 microns i.e. AC-15 as per IS, the anodizing must be scaled by keeping the anodized section in boiling de-anodized water for a period of one hour)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      | panel.                                                               |
| 111 | R3-CS-AW-03   | Providing and fixing in position four track aluminum window of extruded modular and anodized aluminum sections of approved make and of size 122.2 mm x 45.5 mm x 1.3 mm thk (wt 1.829 kg/Rm) for bottom and 122.2 mm x 31.75 mm x 1.2 mm thk. (wt 1.093 kg/Rm) for top and sides mounted on anodized aluminum rectangular frame of size 127mm x 25.4mm x 1.3mm(1.052 kg/m) The shutter comprising of bearing bottom and top of size 40mm x 18 mm x 1.25 mm thk (wt. 0.417 Kg/Rm) Interlocking section of size 40mm x 26.7 mm x 1.10 mm thk. (Wt. 0.469 kg./Rm) and hand sides of 40mm x 18mm x 1.25 mm thk (wt. 0.417kg/Rm) with 5 mm thick plain / frosted / tinted glass fixed in shutter including approved quality neoprene gasket, fixtures, fastenings and accessories like PVC rollers, PVC weep holes, locks, handles etc. complete as directed by Engineer In Charge. (Note: anodic film must not be less than 15 microns i.e. AC-15 as per IS, the anodizing must be scaled by keeping the anodized section in | Sqm  | For hall windows with 1 mosquito net panel.                          |
|     |               | boiling de-anodized water for a period of one hour)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |                                                                      |
| 112 | R3-CS-AW-04   | Providing and fixing in position aluminum louvered window with anodised aluminum frame of approved make and of size 40mm x 20mm x 2.0mm (wt. 0.605 kg/Rm) including adjustable aluminum frame, 4 to 6mm thk. frosted glass, fixtures and fastenings etc. complete as directed by Engineer In Charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Sqm  | For WC, bath windows.                                                |
|     | R3-CS-SL-12   | Providing and Fixing MS Safety grill of weight specified below for windows as per design including fabricating the grill using M.S. square / round bar, flats and angles including painting with one coat of red oxide zinc chromate primer and two coats of synthetic enamel paint of approved colour and brand etc complete as directed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |                                                                      |
| 113 | R3-CS-SL-12-b | Grill weighing 15 to 20 kg / sqm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Sqm  | For all windows(box grill except WC & bath windows) & open passages, |
|     |               | <b>PLUMBING</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |                                                                      |
| 114 | R3-CS-PS-1    | Providing and fixing water closet squatting pan (Indian type W.C. pan ) with 100mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |                                                                      |
|     | R3-CS-PS-1-a  | White Vitreous china Orissa pattern <b>W.C. pan</b> of size 580x440mm with integral type foot rests.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | each |                                                                      |
| 115 | R3-CS-PS-141  | Providing and fixing PTMT angle <b>stop cock 15 mm</b> nominal bore, weighing not less than 85 gms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | each |                                                                      |

|     |                 |                                                                                                                                                                                                                                          |      |  |
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| 116 | R3-CS-PS-127    | Providing and fixing <b>C.P. brass bib cock</b> of approved quality conforming to IS:8931 :                                                                                                                                              |      |  |
|     | R3-CS-PS-127-a  | 15 mm nominal bore                                                                                                                                                                                                                       | each |  |
| 117 | R3-CS-PS-7      | Providing and fixing <b>wash basin with C.I. brackets</b> , 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required : |      |  |
|     | R3-CS-PS-7-a    | White Vitreous China <b>Wash basin size 630x450 mm</b> with a pair of 15 mm C.P. brass pillar taps.                                                                                                                                      | each |  |
| 118 | R3-CS-PS-30     | Providing and fixing 600x450 mm bevelled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.                              |      |  |
| 119 | R3-CS-PS-68     | Providing and fixing <b>PTMT Bottle Trap</b> for Wash basin and sink                                                                                                                                                                     |      |  |
|     | R3-CS-PS-68-a   | <b>Bottle trap 31mm single piece</b> moulded with height of 270mm, effective length of tail pipe 260mm from the centre of the waste coupling 77mm breadth with 25mm minimum water seal, weighing not less than 260gms.                   | each |  |
| 120 | R3-CS-PS-297    | P/F Jaquar make shower, necessary accessories shower arm with flange continental series sr. no. 483                                                                                                                                      | each |  |
| 121 | R3-CS-PS-100    | Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :                                                                                                                                                                     |      |  |
|     | R3-CS-PS-100-b  | 150 mm diameter                                                                                                                                                                                                                          | each |  |
| 122 | R3-CS-PS-131    | Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 a) 15 mm nominal bore                                                                                            |      |  |
|     | R3-CS-PS-131-a  | 15mm nominal bore                                                                                                                                                                                                                        | each |  |
| 123 | R3-CS-PS-70     | Providing and fixing PTMT towel ring trapezoidal shape 215mm long, 200mm wide with a minimum distances of 37mm from wall face with concealed fittings arrangement of approved quality and colour. Weighing not less than 88 gms.         | each |  |
| 124 | R3-CS-PS-143    | Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms.                                                                    | each |  |
| 125 | R3-CS-PS-10     | Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required :  |      |  |
|     | R3-CS-PS-10-a   | Kitchen sink with drain board                                                                                                                                                                                                            |      |  |
|     | R3-CS-PS-10-a-1 | 510x1040 mm bowl depth 250mm.                                                                                                                                                                                                            | each |  |
| 126 | R3-CS-PS-128    | Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms                                                                                                     |      |  |
|     | R3-CS-PS-128-a  | 15 mm nominal bore                                                                                                                                                                                                                       | each |  |

|     |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |                       |
|-----|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|
|     | R3-CS-PS-96   | Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :                                                                                                                                                                                                                                                                                                                                                                                                       |      |                       |
| 127 | R3-CS-PS-96-a | 15 mm nominal bore                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | each |                       |
| 128 | R3-CS-PS-96-b | 20 mm nominal bore                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | each |                       |
|     | R3-CS-PS-86   | Providing andfixing Chlorinated Polyvinyl Chloride (CPVC) pipes,ha ving thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with on-estep CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. |      |                       |
| 129 | R3-CS-PS-86-a | 15 mm nominal outer dia Pipes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Rmt  |                       |
| 130 | R3-CS-PS-86-b | 20 mm nominal outer dia Pipes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Rmt  |                       |
|     |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |                       |
|     | R3-CS-PS-85   | Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes,ha ving thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with on-estep CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Internal work, Exposed on wall.                                        |      |                       |
| 131 | R3-CS-PS-85-a | 15 mm nominal outer dia Pipes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Rmt  |                       |
| 132 | R3-CS-PS-85-b | 20 mm nominal outer dia Pipes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Rmt  |                       |
| 133 | R3-CS-PS-85-c | 25 mm nominal outer dia Pipes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Rmt  |                       |
| 134 | R3-CS-PS-85-d | 32 mm nominal outer dia Pipes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Rmt  |                       |
| 135 | R3-CS-PS-85-f | 50 mm nominal outer dia Pipes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Rmt  | Repeated Items of 141 |
|     |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |                       |
|     |               | <b>EXTERNAL WATER SUPPLY</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                       |
|     | R3-CS-PS-87   | Providing andfixing Chlorinated Polyvinyl Chloride (CPVC) pipes,ha ving thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge.                                                                                                                                                                        |      |                       |
| 136 | R3-CS-PS-87-d | 32 mm nominal outer dia Pipes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Rmt  |                       |
| 137 | R3-CS-PS-87-e | 40 mm nominal outer dia Pipes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Rmt  |                       |
| 138 | R3-CS-PS-87-f | 50 mm nominal outer dia Pipes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Rmt  |                       |
|     |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |                       |
|     |               | <b>TERRACE LOOPING</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |                       |
|     | R3-CS-PS-87   | Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge.                                                                                                                                                                       |      |                       |
| 139 | R3-CS-PS-87-h | 75 mm nominal internal dia Pipes For Upper 2 Floors Seperate Loop (Domestic)                                                                                                                                                                                                                                                                                                                                                                                                                                            | Rmt  |                       |
| 140 | R3-CS-PS-87-i | 100 mm nominal internal dia Pipes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Rmt  |                       |
|     |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |                       |
|     |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |                       |

|     |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |  |
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|     | R3-CS-PS-87    | Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge.                                                                                                                                                                                                                                                                             |      |  |
| 141 | R3-CS-PS-87-f  | 50 mm nominal outer dia Pipes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Rmt  |  |
|     |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |  |
|     |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |  |
| 142 | R3-CS-PS-138-a | Providing and fixing enclosed type <b>water meter</b> (bulk type) conforming to IS : 2373 and tested by Municipal Board complete with bolts, nuts, rubber insertions etc. (The tail pieces if required will be paid separately) :80 mm dia nominal bore                                                                                                                                                                                                                                                                                                                                                                       | Each |  |
|     |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |  |
| 143 | R3-CS-PS-139-a | Providing and fixing C.I. <b>dirty box strainer</b> for bulk type water meter with nuts, bolts, rubber insertions etc. complete conform-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Each |  |
|     |                | ing to IS :2373 :80 mm dia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |  |
|     |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |  |
| 144 | R3-CS-PS-115   | Constructing masonry Chamber 60x45x50 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for water meter complete with C.I. double flap surface box 400x200x200 mm (inside) with locking arrangement and RCC top slab 1:2:4 mix (1 cement : 2coarse sand : 4 graded stone aggregate 20 mm nominal size) , i/c necessary excavation, foundation concrete 1:4:8 ( 1 cement : 5 fine sand:10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12mm thick, finished with a floating coat of neat cement complete as per standard design : |      |  |
|     | R3-CS-PS-115-A | With common burnt clay F.P.S.(non modular) bricks of class designation 7.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Each |  |
|     |                | Providing and fixing brass ferrule with C.I. mouth cover including boring and tapping the main :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |  |
| 145 | R3-HE-7-23-C   | 25 mm nominal bore                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Each |  |
| 146 | R3-HE-7-23-F   | upto 50mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Each |  |
|     | R3-CS-PS-95    | Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |  |
| 147 | R3-CS-PS-95-a  | 25 mm nominal bore                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Each |  |
| 148 | R3-CS-PS-95-b  | 32 mm nominal bore.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Each |  |
| 149 | R3-CS-PS-95-c  | 40 mm nominal bore                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Each |  |
| 150 | R3-CS-PS-95-d  | 50 mm nominal bore                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Each |  |
|     | R3-HE-7-19     | Providing and fixing gun metal ISI mark non-return valve Screwed End of following diameters etc complete in all respect etc complete in all respect as directed by Engineer in Charge                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |  |
| 151 | R3-HE-7-19-c   | 25 mm nominal bore                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Each |  |
| 152 | R3-HE-7-19-d   | 32 mm nominal bore                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Each |  |
| 153 | R3-HE-7-19-e   | 40 mm nominal bore                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Each |  |
| 154 | R3-HE-7-19-f   | 50 mm nominal bore                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Each |  |

|     |                  |                                                                                                                                                                                                                                                                                                                                                                                                         |      |  |
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| 155 | R3-CS-PS-191     | Providing and fixing in position uPVC/SWR pipe 75 mm dia. in any position including all fittings and accessories, making joints / connections water tight with solvent cement, scaffolding if necessary and making good the damages if any (excluding excavation and refilling the trenches) etc. complete as specified and directed.(No separte payment shall be made for fittings and accessories).   | Rmt  |  |
| 156 | R3-CS-PS-192     | Providing and fixing in position uPVC/SWR pipe 110 mm dia. in any position including all fittings and accessories, making joints / connections water tight with solvent cement, scaffolding if necessary and making good the damages if any (excluding excavation and refilling the trenches) etc. complete as specified and directed.(No separate payment shall be made for fittings and accessories). | Rmt  |  |
| 157 | R3-CS-PS-222     | 75 mm C.I nahani trap with grating with 75 mm C.I. bend with cleaning                                                                                                                                                                                                                                                                                                                                   | Each |  |
| 158 | R3-CS-PS-27      | Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.                                                                                                                                                                                                                                                                                                 |      |  |
| 159 | R3-CS-PS-27-a    | Semi rigid pipe                                                                                                                                                                                                                                                                                                                                                                                         |      |  |
| 160 | R3-CS-PS-27-a-2  | 40 mm dia                                                                                                                                                                                                                                                                                                                                                                                               | Each |  |
| 161 | R3-CS-PS-202     | Providing and fixing in position uPVC/SWR pipe 160 mm dia. in any position including all fittings and accessories, making joints / connections water tight with solvent cement, scaffolding if necessary and making good the damages if any (excluding excavation and refilling the trenches) etc. complete as specified and directed.(No separte payment shall be made for fittings and accessories).  | Rmt  |  |
|     |                  | CI DROP PIPE FROM CEILING TO NEAREST IC / GT                                                                                                                                                                                                                                                                                                                                                            |      |  |
|     |                  | Providing and fixing soil, waste and vent pipes :                                                                                                                                                                                                                                                                                                                                                       |      |  |
| 162 | R3-CS-PS-34-a-2  | Centrifugally cast (spun) iron socket & spigot (S&S) pipe as per IS: 3989. 100 MM                                                                                                                                                                                                                                                                                                                       | Rmt  |  |
| 163 | R3-CS-PS-34-b-2  | Centrifugally cast (spun) iron socket & spigot (S&S) pipe as per IS: 3989. 75 MM                                                                                                                                                                                                                                                                                                                        | Rmt  |  |
|     |                  |                                                                                                                                                                                                                                                                                                                                                                                                         |      |  |
|     |                  | EXTERNAL DRAINAGE                                                                                                                                                                                                                                                                                                                                                                                       |      |  |
| 164 | R3-CS-PS-166     | Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design :                                                                                                        |      |  |
|     | R3-CS-PS-166-C   | 180x150 mm size P type                                                                                                                                                                                                                                                                                                                                                                                  |      |  |
|     | R3-CS-PS-166-c-1 | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5                                                                                                                                                                                                                                                                                                                             | Each |  |
|     | R3-CS-PS-163     | Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :                                                                                                                                                                                                      |      |  |
| 165 | R3-CS-PS-163-A   | 100 mm diameter                                                                                                                                                                                                                                                                                                                                                                                         | Rmt  |  |
| 166 | R3-CS-PS-163-B   | 150 mm diameter                                                                                                                                                                                                                                                                                                                                                                                         | Rmt  |  |
| 167 | R3-CS-PS-163-C   | 200 mm diameter                                                                                                                                                                                                                                                                                                                                                                                         | Rmt  |  |
|     | R3-CS-PS-164     | Providing and laying cement concrete 1:4:8 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design :                                                                                                                                                                                                               |      |  |

|     |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |  |
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| 168 | R3-CS-PS-164-a | 100 mm diameter S.W. pipe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Rmt  |  |
| 169 | R3-CS-PS-164-b | 150 mm diameter S.W. pipe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Rmt  |  |
| 170 | R3-CS-PS-164-C | 200 mm diameter S.W. pipe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Rmt  |  |
| 171 | R3-CS-PS-194   | Constructing brick masonry inspection chamber 90cm x 45cm x30cm in cement mortar 1:4 ( 1 cement : 4 coarse sand ) with R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making haunches, channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design. | Each |  |
| 172 | R3-CS-PS-195   | Extra on item CS-PS-194 for additional depth above 30 cm of 230 mm brick walls                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Rmt  |  |
| 173 | R3-CS-PS-196   | Providing & fixing M. S. angled ISA 5050 of 6 mm. welded frame for rectangular inspection chamber of 90 cm x 45 cm. with, 1 : 2 : 4 R. C. C. cover of approved design, 50mm. thick fixed complete including cement sand filleting 1 : 1 in C. S. complete as directed (Including fixing in cement mortar with cement and sand filleting around C. I. Frame and removal of the existing frame and cover if any. The frame and cover must be weighed before fixing in position. ) (The dimensions specified are clear inside dimensions of the frames. In case of M. S. angled frame, the proper hold fasts & fastening should be embedded in c.c. )                               | Each |  |
| 174 | R3-CS-PS-197   | P/F R.C.C. cover on inspection chamber of size 90 cm x 45 cm. and 50 mm. thick, etc., directed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Each |  |
| 175 | R3-CS-PS-198   | Open half-round S.W. pipe above 75 mm, upto 150 mm channel filled in cement and sand mortar 1: 2 above.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Rmt  |  |
| 176 | R3-CS-PS-199   | Providing and fixing open half round Hume pipe channel with collar etc. in cm. (1:2) laid complete 150 mm dia.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Rmt  |  |
| 177 | R3-CS-PS-200   | Providing and fixing open half round Hume pipe channel without collar etc. in cm. (1:2) laid complete 150 mm dia. (Note deduct Rs. 14.00 per R.M. if collar is not required). For Surface Rain Water Drainage                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Rmt  |  |
| 178 | R3-CS-PS-201   | Providing and fixing open half round Hume pipe channel with collar etc. in cm. (1:2) laid complete 250 mm dia. (Note deduct Rs. 17.00 per R.M. if collar is not required). For Surface Rain Water Drainage                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Rmt  |  |
| 179 | R3-CS-PS-168   | Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |  |
| 180 | R3-CS-PS-168-a | 100 mm dia. R.C.C. pipe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Rmt  |  |
| 181 | R3-CS-PS-168-b | 150 mm dia. R.C.C. pipe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Rmt  |  |
| 182 | R3-CS-PS-168-c | 250 mm dia. R.C.C. pipe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Rmt  |  |
| 183 | R3-CS-PS-168-d | 300 mm dia. R.C.C. pipe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Rmt  |  |
| 184 | R3-CS-PS-168-e | 450 mm dia. R.C.C. pipe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Rmt  |  |
|     | R3-CS-         | Constructing brick masonry circular type manhole 0.91 m internal dia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |  |

|     |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |  |
|-----|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--|
|     | PS-170           | at bottom and 0.56m dia at top in cement mortar 1:4 (1 cement :4 coarse sand), in side cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size), and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, all complete as |      |  |
|     |                  | per standard design :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |  |
|     | R3-CS-PS-170-a   | 0.91 m deep with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg., fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering shuttering all complete. (Excavation, foot rests and 12mm thick cement plaster at the external surface shall be paid for separately) :                                                     |      |  |
| 185 | R3-CS-PS-170-a-1 | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5                                                                                                                                                                                                                                                                                                                                                                                                                                            | Each |  |
| 186 | R3-CS-PS-171     | Extra depth for circular type manhole 0.91m internal dia (at bottom) beyond 0.91 m to 1.67 m                                                                                                                                                                                                                                                                                                                                                                                                                           |      |  |
|     | R3-CS-PS-171-a   | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5                                                                                                                                                                                                                                                                                                                                                                                                                                            | Rmt  |  |
|     |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |  |
| 187 | R3-CS-RM-97      | Providing & fixing composite hot press glass fibre reinforced mosquito proof lid for water storage tank, for prevention of malaria including transport, locking arrangement etc. complete as directed For tank capacity above 3000 liters.                                                                                                                                                                                                                                                                             | Each |  |
| 188 | R3-CS-PS-290     | PROVIDING & FIXING 40MM PRESSURE REDUCING VALVE ON DOWN TAKE WATER SUPPLY PIPES (Diaphragm type with in-built ss strainer)                                                                                                                                                                                                                                                                                                                                                                                             | Each |  |
| 189 | R3-CS-PS-291     | PROVIDING & FIXING 32MM PRESSURE REDUCING VALVE ON DOWN TAKE WATER SUPPLY PIPES (Diaphragm type with in-built ss strainer)                                                                                                                                                                                                                                                                                                                                                                                             | Each |  |
|     | R3-CS-PS-95      | Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :                                                                                                                                                                                                                                                                                                                                                                                                                          |      |  |
| 190 | R3-CS-PS-95-e    | 65 mm nominal bore                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Each |  |
| 191 | R3-CS-PS-95-f    | 80mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Each |  |
| 192 | R3-SWD-142       | Constructing single water entrance of internal size 0.50m x 0.60m with cast-in-situ coping in M-20 grade, fixing of grating in M -20 as per standard drawings (Dwg No. BMC/SWD/2013-14), etc complete as specified and as directed by Engineer-in-Charge. (excluding excavation, providing and fixing of gratings and frame)                                                                                                                                                                                           | Each |  |



|      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |  |
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| 193  | R3-SWD-169          | Providing & Fixing 0.60m X 0.50m clear internal size of M.S. Galvanised hinged type grating and frame (weighing minimum 71 kg) with minimum 75 microns zinc coating by hot dipped galvanising the MS grating and frame as per IS 2629. (The contractor shall furnish the certificate of galvanising from the Galvaniser.) including testing ,inspection of material sample and finished product in presence of M.C.G.M. Engineers (3 nos.) at manufacturer's works, as per Standard Specification no SP-SWD-3 etc complete as specified & as directed by Engineer-in-Charge. | each |  |
|      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |  |
|      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |  |
|      |                     | <b><u>Part B : Firefighting / Electrical / Elevator Works</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |  |
|      |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |  |
|      |                     | <b><u>Section D : Firefighting Works</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |  |
|      |                     | <b>FIRE EXTINGUISHERS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |  |
| 194A | R3-ME-15-30-c       | Supply and installation of ABC type fire extinguisher (6 kg).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Nos  |  |
| 194B | R3-ME-15-30-d       | Supply and installation of ABC type fire extinguisher (9 kg).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Nos  |  |
| 195  | R3-ME-15-31-a       | Providing and keeping in position standard sand bucket filled with clean sand and painted red from outside at various places in podium and stilt.                                                                                                                                                                                                                                                                                                                                                                                                                            | Nos  |  |
|      |                     | <b>PUMP ROOM</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |  |
| 196  | PUMPS T-144M3H 120M | Horizontal End Suction Back Pull Out Pumpset Casing:Cast Iron<br>Impeller:Bronze<br>Motor: 75kW -100HP 2900 RPM electric motor of Crompton Kirloskar Make.<br>Suction X Discharge Pipe Size(mM) : 100 X 80 Pumpset mounted on MS fabricated base frame supplied with coupling, coupling guard & foundation bolts.<br>Application: Main Hydrant Pump<br>Duty: 144 m3h @ 120m                                                                                                                                                                                                  | Nos  |  |
| 197  | R3-ME-6-4-ak        | Centrifugal Monobloc Pumpset Power: 12.5 H. P. three phase motor, Head range: (6-36 mtr) Discharge Range: (6-37 lps) (80 X 65 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                            | Nos  |  |
| 198  | PUMPS T-144M3H 120M | Horizontal End Suction Back Pull Out Pumpset Casing:Cast Iron<br>Impeller:Bronze<br>Motor: 75kW -100HP 2900 RPM electric motor of Crompton Kirloskar Make.<br>Suction X Discharge Pipe Size(mM) : 100 X 80 Pumpset mounted on MS fabricated base frame supplied with coupling, coupling guard & foundation bolts.<br>Application: Main Sprinkler Pump<br>Duty: 144 m3h @ 120m                                                                                                                                                                                                | Nos  |  |
| 199  | PMPST-14.4M3 H 120M | Multistage Vertical Inline Pumpset Power: 15HP (11kW)<br>Suction X Discharge Pipe Size(mm): 50 x 50 Phase: Three Phase, 440 Volts, 50Hz<br>Stages: 10<br>Application: Jockey Pump<br>Duty: 14.6 m3h @ 120m                                                                                                                                                                                                                                                                                                                                                                   | Nos  |  |
|      | R3-ME-15-15         | Providing and fixing in position G.I. Heavy grade 'C' class pipes (I.S. 1239 part I) with screwed on couplings/ fittings (I.S. 1239 Part II) including disconnecting arrangement (unions / Flanges) as necessary clamping to wall beams and ceilings with hangers and clamps anchor fasteners wherever required to firmly support piping, testing to 1.5                                                                                                                                                                                                                     |      |  |

|     |                |                                                                                                                                                                                                                                                                                     |      |  |
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|     |                | times to working pressure for minimum 2 hours after installation and painting as required by Fire Authority after primer cost.                                                                                                                                                      |      |  |
| 200 | R3-ME-15-15-a  | 150 mm                                                                                                                                                                                                                                                                              | Rmt  |  |
| 201 | R3-ME-15-15-b  | 100 mm                                                                                                                                                                                                                                                                              | Rmt  |  |
| 202 | R3-ME-15-15-c  | 80 mm                                                                                                                                                                                                                                                                               | Rmt  |  |
| 203 | R3-ME-15-15-e  | 50 mm                                                                                                                                                                                                                                                                               | Rmt  |  |
| 204 | R3-ME-15-15-h  | 25 mm                                                                                                                                                                                                                                                                               | Rmt  |  |
|     | R3-ME-6-13     | Wafer type butterfly valves: (sp-me-ts-72)                                                                                                                                                                                                                                          |      |  |
| 205 | R3-ME-6-13-b   | 50 mm dia.                                                                                                                                                                                                                                                                          | Nos  |  |
| 206 | R3-ME-6-13-d   | 80 mm dia.                                                                                                                                                                                                                                                                          | Nos  |  |
| 207 | R3-ME-6-13-e   | 100 mm dia.                                                                                                                                                                                                                                                                         | Nos  |  |
| 208 | R3-ME-6-13-f   | 150 mm dia.                                                                                                                                                                                                                                                                         | Nos  |  |
|     | R3-ME-15-9     | Sluice valves (flanged)                                                                                                                                                                                                                                                             |      |  |
| 209 | R3-ME-15-9-a   | 80 mm dia.                                                                                                                                                                                                                                                                          | Nos  |  |
| 210 | R3-ME-15-9-c   | 150 mm dia                                                                                                                                                                                                                                                                          | Nos  |  |
|     |                | Providing and fixing in position C.I. Double flanged non return valves of 150mm dia Kirloskar or other approved make including fixing with all nuts bolts, gaskets etc complete.                                                                                                    |      |  |
| 211 | R3- ME-15-7-c  | 150 mm dia.                                                                                                                                                                                                                                                                         | Nos. |  |
| 212 | ME-UGPG-FF-F26 | Supporting and installing cast iron dual plate wafer type PN 16 double flanged type non-return valve including nuts bolts 1.6 mm thick compressed asbestos gasket including matching flanges complete.- 80 mm N                                                                     | Nos  |  |
|     | R3-Me-15-5     | End line Strainer                                                                                                                                                                                                                                                                   |      |  |
| 213 | R3-Me-15-5-c   | 150 mm                                                                                                                                                                                                                                                                              | Nos  |  |
| 214 | R3-Me-15-5-a   | 80 mm                                                                                                                                                                                                                                                                               | Nos  |  |
|     | R3-Me-15-13    | Pressure guages (sp-me-ts-71)                                                                                                                                                                                                                                                       |      |  |
| 215 | R3-Me-15-13-a  | Supplying and installing pressure gauge of 100 mm Ø., 0-300 PSI or 0- 14 kg per cm square fitted with 12/15 mm Ø. pad cock valve, and G.I. pipe, elbow etc                                                                                                                          | Nos. |  |
| 216 | R3-ME-9-64-b   | Providing and fixing 50mm dia ball drain valve.( in pump room )                                                                                                                                                                                                                     | Nos. |  |
|     |                | Ball valves                                                                                                                                                                                                                                                                         |      |  |
| 217 | R3-ME-9-64-d   | 25 mm dia                                                                                                                                                                                                                                                                           | Nos  |  |
| 218 | R3-Me-15-23    | Supplying and installing Danfoss make pressure switch with 12/15 mm dia isolation Valve, GI nipple, elbow etc. in an approved manner as per specification.                                                                                                                          | Nos  |  |
| 219 | R3-Me-15-21    | Supplying and installing Air Vessel of 300 mm Ø 1.5m in height M.S. tank installed inside pump house as per specification                                                                                                                                                           | Nos  |  |
|     |                | <b>SPRINKLER &amp; SPRAYER SYSTEM</b>                                                                                                                                                                                                                                               |      |  |
|     | R3-ME-         | Providing and fixing in position G.I. Heavy grade 'C' class pipes (I.S. 1239 part I) with screwed on couplings/ fittings (I.S. 1239 Part II) including disconnecting arrangement (unions / Flanges) as necessary clamping to wall beams and ceilings with hangers and clamps anchor |      |  |

|     |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |  |
|-----|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--|
|     | 15-15         | fasteners wherever required to firmly support piping, testing to 1.5 times to working pressure for minimum 2 hours after installation and painting as required by Fire Authority after primer cost.                                                                                                                                                                                                                                                  |      |  |
| 220 | R3-ME-15-15-a | 150 mm                                                                                                                                                                                                                                                                                                                                                                                                                                               | Rmt  |  |
| 221 | R3-ME-15-15-c | 80mm                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Rmt  |  |
| 222 | R3-ME-15-15-d | 65 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                | Rmt  |  |
| 223 | R3-ME-15-15-e | 50 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                | Rmt  |  |
| 224 | R3-ME-15-15-f | 40 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                | Rmt  |  |
| 225 | R3-ME-15-15-g | 32 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                | Rmt  |  |
| 226 | R3-ME-15-15-h | 25 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                | Rmt  |  |
| 227 | R3-Me-15-26-a | Providing, fixing, testing and commissioning of Quartzoid Bulb Sprinkler Head With Temperature Rating 68 Deg. C., Universal Deflector, UL / FM Approved in Brass or C.P. finish, pendent type, 15 mm dia ., as per TS.                                                                                                                                                                                                                               | Nos. |  |
| 228 | VNS-FF-31     | Supplying & fixing Sprinkler heads quartzoid bulb type pendent type sprinklers (straight throw) 93 Deg. C Temperature. (for Kitchen)                                                                                                                                                                                                                                                                                                                 | Nos  |  |
|     |               | Supplying & erecting vane type water flow detector suitable for detecting flow of water in wet sprinkler pipe of main line or branch lines of 75/80 mm dia having following features 1) Visual Switch Activation 2) Rugged Switch Assembly 3) Heavy Duty Alluminium pipe Saddles 4) Durable Metal Encloser 5) Steel U Bolts For Secure Mounting 6) Two SPDT ( Single Pole Double Track ) Synchronised Switches 7) Serviceable Without Draining Pipes |      |  |
| 229 | R3-ME-15-26-c | 80 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                | Nos  |  |
| 230 | ME-17-1-I     | Providing and fixing 25mm dia ball test valve with side mirror                                                                                                                                                                                                                                                                                                                                                                                       | Nos. |  |
| 231 | ME-17-6       | Providing and fixing in position 150 mm size sprinkler installation control valve with all trims, Alarm motor and going, pressure gauge (2 Nos) Water flow switch (1 No.) pressure switch (1 No.) drain and test valve with associated piping 1 No. 150 NB sluice valve on the under-side of control valve approved and listed by TAC.                                                                                                               | Nos  |  |
| 232 | R3-ME-15-22   | Supplying and erecting 20/25mm Ø G.M.air release cock, with necessary G.I. coupling to be fitted on top of Air vessel or on wet riser as per specification                                                                                                                                                                                                                                                                                           | Nos  |  |
|     | R3-Me-15-13   | Pressure guages (sp-me-ts-71)                                                                                                                                                                                                                                                                                                                                                                                                                        |      |  |
| 233 | R3-Me-15-13-a | Supplying and installing pressure gauge of 100 mm Ø., 0-300 PSI or 0- 14 kg per cm square fitted with 12/15 mm Ø. pad cock valve, and G.I. pipe, elbow etc                                                                                                                                                                                                                                                                                           | Nos. |  |
| 234 | R3-Me-15-7-a  | Supplying and installing double flange NRV 80 mm                                                                                                                                                                                                                                                                                                                                                                                                     | Nos  |  |
| 235 | R3-me-15-6    | butterfly valves: (sp-me-ts-72)                                                                                                                                                                                                                                                                                                                                                                                                                      |      |  |
| 236 | R3-ME-15-6-a  | 80mm dia.                                                                                                                                                                                                                                                                                                                                                                                                                                            | Nos  |  |
| 237 | R3-ME-2-3-a   | Sprinkler and Jockey Pump Pressure Switch Cable 1.1 kV grade stranded Cu conductor, XLPE insulated, extruded PVC inner and FRLS outer sheathed, galvanised steel round or strip armoured cables (SP-ME-TS- 6) 2C x 1.5 sq.mm. Cu.Armoured Cable                                                                                                                                                                                                      | Rmt  |  |
|     |               | <b>HYDRANT SYSTEM</b>                                                                                                                                                                                                                                                                                                                                                                                                                                |      |  |

|     |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |  |
|-----|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--|
|     |                | Providing and fixing in position G.I. Heavy grade 'C' class pipes (I.S. 1239 part I) with screwed on couplings/ fittings (I.S. 1239 Part II) including disconnecting arrangement (unions / Flanges) as necessary clamping to wall bems and ceilings with hangers and clamps anchor fasteners wherever required to firmly support piping, testing to 1.5 times to working pressure for minimum 2 hours after instalation and painting as required by Fire Authority after primer cost. |      |  |
| 238 | R3-Me-15-15-a  | 150 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Rmt. |  |
| 239 | R3-Me-15-15-c  | 80mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Rmt  |  |
| 240 | R3-ME-15-8-d   | Supplying and installing Stainless Steel Double outlet hydrant valve fitted with necessary accessories complete as per Specification                                                                                                                                                                                                                                                                                                                                                  | Nos. |  |
| 241 | R3-ME-15-8-c   | Supplying and installing Stainless Steel single outlet hydrant valve fitted with necessary accessories complete as per Specification                                                                                                                                                                                                                                                                                                                                                  | Nos  |  |
|     |                | Supplying and installing cast iron double flange sluice valve 150 mm dia.as per Specification                                                                                                                                                                                                                                                                                                                                                                                         |      |  |
| 242 | R3-ME-15-9-c   | 150 mm dia                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Nos  |  |
| 243 | R3-ME-15-18    | Supplying and installing wall mounting swinging Hose reel drum fitted with 19 mm dia. 30m high pressure polypropylene (Polyhose) long fitted with necessary accessories complete as per specification                                                                                                                                                                                                                                                                                 | Nos. |  |
| 244 | R3-Me-15-11-a  | Providing and fixing in position 2 lengths of 15 M long flexible canvas rubber lined hose reels 63 dia with adapter, branch pipe and nozzle and stroking them in metal cabinets with lockable glass shutters and fixing the metal cabinet at ground level in a location where it can be easily spotted including painting tec. complete.                                                                                                                                              | Nos. |  |
| 245 | R3-Me-15-19    | Supplying and installing fire brigade Header of 150 mm Ø, for supply- ing water in fire tank as per specification                                                                                                                                                                                                                                                                                                                                                                     | Nos. |  |
| 246 | R3-ME-2-3-a    | ISI Marked Armoured Cu cables as per TS for following -Hydrant, Jockey Pump Pressure Switch Cable 2C x 1.5 sq.mm. Cu. - Armoured Cable                                                                                                                                                                                                                                                                                                                                                | Rmt  |  |
| 247 | R3-Me-15-14-a  | Supplying and erecting one no. Brass orifice plate having 6 mm. thick- ness, 140 mm outer dia of 140 mm at every single outlet hydrant valve                                                                                                                                                                                                                                                                                                                                          | Nos. |  |
| 248 | R3-Me-15-22    | Supplying and erecting 20/25mm Ø G.M.air release cock, with neces- sary G.I. coupling to be fitted on top of Air vessel or on wet riser as per specification                                                                                                                                                                                                                                                                                                                          | Nos. |  |
| 249 | R3-ME-15-20    | Supplying and installing fire brigade Header (Siamese Connection) of 150 mm Ø for supplying water to wet riser system as per specification                                                                                                                                                                                                                                                                                                                                            | Nos  |  |
|     |                | <b>Fire Alarm System Public Address System</b>                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |  |
| 250 | R3- ME-15-32-a | "Supply, Installation, Testing & Commissioning of Microprocessor based 1 loop capacity expandable to 10 loops, Networkable Analogue Addressable type fire alarm control panel with Display and Fully fun- ctional QWERTY type keypad.The panel shall be equipped with 20% spare capacity with each loop having a maximum loading of 130 de- tectors and 130 devices in one loop.                                                                                                      | Nos  |  |
| 251 | R3-ME-15-32-m  | SITC of Providing LCD Analog Active addressable fire detection re- peater panel conforming to the intents of specifications complete as approved with TAC, Fire Authority With Test/Accept/Reset Facility.                                                                                                                                                                                                                                                                            | Nos  |  |
| 252 | R3- ME-15-32-d | Providing, laying, testing and commissioning of Intelligent Photoelec- tric Smoke Detector                                                                                                                                                                                                                                                                                                                                                                                            | Nos  |  |
| 253 | R3- ME-15-32-i | Providing, laying, testing and commissioning of Programmable Elec- tronic Sounders (Hooters):                                                                                                                                                                                                                                                                                                                                                                                         | Nos  |  |
| 254 | R3-ME-15-32-h  | Providing, laying, testing and commissioning of Addressable Manual Fire Alarm Box (manual station)                                                                                                                                                                                                                                                                                                                                                                                    | Nos  |  |
| 255 | R3- ME-15-32-c | Providing, laying, testing and commissioning of 2Cx1.5 sq.mm ar- moured RED colour copper FRLS cable with necessary saddles, screws, junction boxes, sleeves, elbows couplings etc. for Fire alarm System                                                                                                                                                                                                                                                                             | Nos  |  |

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|-----|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--|
| 256 | R3-Me-15-32-e | Supply, Installation, testing & commissioning of Intelligent Heat Detector along with mounting box & termination glands                                                                                                                                                                                                                             | Nos        |  |
| 257 | R3-ME-12-10-n | Supply and installation of 250 watts amplifier with USB                                                                                                                                                                                                                                                                                             | Nos        |  |
| 258 | R3-ME-12-10-l | Wiring for speakers with 24/0.2 multicore twin twisted flexible copper.                                                                                                                                                                                                                                                                             | Mtr        |  |
| 259 | R3-ME-12-10-i | Supply & installation of 6W/100V wall mounting box speakers.                                                                                                                                                                                                                                                                                        | Nos        |  |
| 260 | R3-ME-12-10-j | Supply & installation of Unidirectional Dynamic Vocal & Speech Microphone                                                                                                                                                                                                                                                                           | Nop        |  |
|     |               |                                                                                                                                                                                                                                                                                                                                                     |            |  |
|     |               | <b>Total Of Section "D" .....</b>                                                                                                                                                                                                                                                                                                                   |            |  |
|     |               |                                                                                                                                                                                                                                                                                                                                                     |            |  |
|     |               | <b><u>Section E : Electrical Works</u></b>                                                                                                                                                                                                                                                                                                          |            |  |
|     |               |                                                                                                                                                                                                                                                                                                                                                     |            |  |
|     | 1             | <b>Common Utility Panel</b>                                                                                                                                                                                                                                                                                                                         |            |  |
|     |               | <b>Incomer 1 – 2 and Bus coupler</b>                                                                                                                                                                                                                                                                                                                |            |  |
|     | N             | <b>MCB</b>                                                                                                                                                                                                                                                                                                                                          |            |  |
|     | R3-ME-1-17    | Unit rate of 240V/415V, 'C' Curve, 10kA, Miniature circuit breaker suitable for DB mounting complete with connection, testing & commissioning etc. as required.                                                                                                                                                                                     |            |  |
| 261 | R3-ME-1-17-s  | 63 Amps TPN MCB                                                                                                                                                                                                                                                                                                                                     | NO         |  |
|     | F             | <b>Bus Bars</b>                                                                                                                                                                                                                                                                                                                                     |            |  |
|     | R3-ME-1-9     | Bus bar chambers, using CRCA Sheet steel SWG 16, powder coated, rust protected enclosure. IP protection for chamber shall be IP43. Bus bar supports shall be SMC (each at every 300mm). Incoming and outgoing Cable termination provision shall be provided with 3mm un-drilled gland plate. Colour shade shall be RAL 7032 Smoke gray as per IS 5. |            |  |
| 262 | R3-ME-1-9-b   | 60 /63A TPN with tinned copper bars of size 20 x 3 mm.                                                                                                                                                                                                                                                                                              | Mtr.       |  |
| 263 | R3-ME-1-9-g   | Cubical Panel (Fabricated from CRCA sheet steel SWG 16, powder coated, rust protected enclosure, IP 52)                                                                                                                                                                                                                                             | Cubic mtr. |  |
| 264 | ME-1-11-k     | Ring type current transformer Accuracy class 1, having burden of 15 VA & ratio of 60/5.                                                                                                                                                                                                                                                             | NO         |  |
| 265 | ME-1-11-ae    | Neon indicating lights suitable to work 250V 50 c/s A.C. With low burden and flush type with colours RYB set of 3 lights.                                                                                                                                                                                                                           | NO         |  |
| 266 | ME-1-11-ag    | Digital Ammeter with accuracy class 1, built in selector switch facility shall be provided. Ammeter Shall be Suitable for CT secondary 5A                                                                                                                                                                                                           | NO         |  |
| 267 | ME-1-11-ah    | Digital Voltmeter with accuracy class 1, built in selector switch facility shall be provided.                                                                                                                                                                                                                                                       | NO         |  |
|     |               | <b>Outgoing</b>                                                                                                                                                                                                                                                                                                                                     |            |  |
|     | N             | <b>MCB</b>                                                                                                                                                                                                                                                                                                                                          |            |  |
|     | R3-ME-1-17    | Unit rate of 240V/415V, 'C' Curve, 10kA, Miniature circuit breaker suitable for DB mounting complete with connection, testing & commissioning etc. as required.                                                                                                                                                                                     |            |  |
| 268 | R3-ME-1-17-h  | 16A/20A, DP MCB                                                                                                                                                                                                                                                                                                                                     | NO         |  |
| 269 | R3-ME-1-17-r  | 32A, TPN MCB                                                                                                                                                                                                                                                                                                                                        | NO         |  |
|     | 1             | <b>Common Utility Panel</b>                                                                                                                                                                                                                                                                                                                         |            |  |
|     |               | <b>Incomer 1 – 2 and Bus coupler</b>                                                                                                                                                                                                                                                                                                                |            |  |
|     | N             | <b>MCB</b>                                                                                                                                                                                                                                                                                                                                          |            |  |
|     | R3-ME-1-17    | Unit rate of 240V/415V, 'C' Curve, 10kA, Miniature circuit breaker suitable for DB mounting complete with connection, testing & commissioning etc. as required.                                                                                                                                                                                     |            |  |
| 270 | R3-ME-1-17-s  | 63 Amps TPN MCB                                                                                                                                                                                                                                                                                                                                     | NO         |  |
|     | F             | <b>Bus Bars</b>                                                                                                                                                                                                                                                                                                                                     |            |  |

|       |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |  |
|-------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--|
|       | R3-ME-1-9    | Bus bar chambers, using CRCA Sheet steel SWG 16, powder coated, rust protected enclosure. IP protection for chamber shall be IP43. Bus bar supports shall be SMC (each at every 300mm). Incoming and outgoing Cable termination provision shall be provided with 3mm un-drilled gland plate. Colour shade shall be RAL 7032 Smoke gray as per IS 5.                                                                                                                                                                                                                                  |            |  |
| 271   | R3-ME-1-9-b  | 60 /63A TPN with tinned copper bars of size 20 x 3 mm.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Mtr.       |  |
| 272   | R3-ME-1-9-g  | Cubical Panel (Fabricated from CRCA sheet steel SWG 16, powder coated, rust protected enclosure, IP 52)                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Cubic mtr. |  |
| 273   | ME-1-11-1    | <del>Ring type current transformer Accuracy class 1, having burden of 15 VA &amp; ratio of 60/5.</del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | NO         |  |
| 274   | ME-1-11-ae   | <del>Neon indicating lights suitable to work 250V 50 c/s A.C. With low burden and flush type with colours RYB set of 3 lights.</del>                                                                                                                                                                                                                                                                                                                                                                                                                                                 | NO         |  |
| 275   | ME-1-11-ag   | <del>Digital Ammeter with accuracy class 1, built in selector switch facility shall be provided. Ammeter Shall be Suitable for CT secondary 5A</del>                                                                                                                                                                                                                                                                                                                                                                                                                                 | NO         |  |
| 276   | ME-1-11-ah   | <del>Digital Voltmeter with accuracy class 1, built in selector switch facility shall be provided.</del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NO         |  |
|       |              | <b>Outgoing</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |  |
|       | N            | <b>MCB</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |  |
|       | R3-ME-1-17   | Unit rate of 240V/415V, 'C' Curve, 10kA, Miniature circuit breaker suitable for DB mounting complete with connection, testing & commissioning etc. as required.                                                                                                                                                                                                                                                                                                                                                                                                                      |            |  |
| 277   | R3-ME-1-17-h | 16A/20A DP MCB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | NO         |  |
| 278   | R3-ME-1-17-r | 32A, TPN MCB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | NO         |  |
|       | 3            | <b>Plumbing Panel</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |  |
| 279   | R3-ME-6-2-al | Submersible Pump set of:<br>10 H.P. three phase electric motor<br>Discharge: 690 lpm at 28 m head to 240 lpm at 86 m head<br>Pump body: Cast Iron, Impeller: Noryl, Shaft SS410<br>Pump delivery diameter 65 mm.                                                                                                                                                                                                                                                                                                                                                                     | Nos.       |  |
| 280 A | R3-ME-6-2-ak | Submersible Pump set of:<br>10 H.P. three phase electric motor<br>Discharge: 510 lpm at 26 m head to 120 lpm at 94 m head<br>Pump body: Cast Iron, Impeller: Noryl, Shaft SS410<br>Pump delivery diameter 50 mm.                                                                                                                                                                                                                                                                                                                                                                     | Nos        |  |
| 280B  | R3-ME-6-19-a | Automatic Pump Control Panel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Nos</b> |  |
|       |              | <b>Incomer 1 – 2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |  |
|       | N            | <b>MCB</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |  |
| 281   | R3-ME-1-17   | Unit rate of 240V/415V, 'C' Curve, 10kA, Miniature circuit breaker suitable for DB mounting complete with connection, testing & commissioning etc. as required.                                                                                                                                                                                                                                                                                                                                                                                                                      |            |  |
|       | R3-ME-1-17-s | 63 Amps TPN MCB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | NO         |  |
|       |              | <b>CHANGEOVER SWITCHES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |  |
|       | R3-ME-1-4    | Change Over Switch as per IEC 60947 Part 1 & 3 / IS 13947 part 1 & 3 to be enclosed in CRCA Sheet steel 18/20 SWG standard with powder coated, rust protected(if 16/18 SWG/1.62/1.21 mm Nost avilable) with PVC insulated cu wires for interconnection, bus bar, earthing terminal, and all other accessories to complete the work. Changeover switch shall be wall/column mounted. Enclosure shall be weather proof. Colour shade shall be as per IS 5. MS angle iron frame to mount the unit is included.IP for enclosure shall be IP43 for Indoor unit and IP 55 for Outdoor unit |            |  |
| 282   | R3-ME-1-4-g  | 63 Amp. 415V 4P Changeover Switch with CRCA sheet steel powder coated enclosure.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | NO         |  |
|       | F            | <b>Bus Bars</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |  |

|     |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |  |
|-----|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--|
|     | R3-ME-1-9    | Bus bar chambers, using CRCA Sheet sheet SWG 16, powder coated, rust protected enclosure. IP protection for chamber shall be IP43. Bus bar supports shall be SMC (each at every 300 mm). Incoming and outgoing Cable termination provision shall be provided with 3mm un-drilled gland plate. Colour shade shall be RAL 7032 Smoke gray as per IS 5.                                                                                                                                                                                                                                                                                                               |            |  |
| 283 | R3-ME-1-9-b  | 60 /63A TPN with tinned copper bars of size 20 x 3 mm.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Mtr.       |  |
| 284 | R3-ME-1-9-g  | Cubical Panel (Fabricated from CRCA sheet steel SWG 16, powder coated, rust protected enclosure, IP 52)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Cubic mtr. |  |
| 285 | ME-1-11-ae   | Neon indicating lights suitable to work 250V 50 c/s A.C. With low burden and flush type with colours RYB set of 3 lights.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | NO         |  |
|     |              | <b>Outgoing</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |  |
|     | N            | <b>MCB</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |  |
|     | R3-ME-1-17   | Unit rate of 240V/415V, 'C' Curve, 10kA, Miniature circuit breaker suitable for DB mounting complete with connection,testing & commissioning etc. as required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |  |
| 286 | R3-ME-1-17-m | 32A, TP MCB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | NO         |  |
| 287 | R3-ME-1-17-l | 16A/20A, TP MCB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | NO         |  |
|     | S            | <b>Starter For Motors: (Complete with interconnections &amp; Wiring)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |  |
|     | R3-ME-1-22   | Following rating starters. Enclosure for starter shall be Corrosion resistant powder coated CRCA enclosure with IP54 protection class shall be suitable for chemical factories, polluted industrial and dusty agricultural environment. Starters shall be provided with terminal block with proper terminal marking for ease of wiring. Terminal block can accommodate both aluminum & copper cables. Starter shall be provided with ON / OFF Indication lamps and Start / Stop Push buttons. Components for motor starter shall have type 2 co-ordination compliance and built in single phase protection. Colour shade shall be RAL 7032 smoke gray as per IS 5. |            |  |
| 288 | R3-ME-1-22-c | Automatic Star Delta Starter for 5 H.P to 15 H.P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | NO         |  |
|     | 4            | <b>Plumbing Panel</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            |  |
| 289 | R3-ME-6-3-al | Submersible Pump set suitable for 150 mm borehole with:10 H.P. three phase electric motorDischarge: 690 lpm at 28 m head to 240 lpm at 86 m headPump body: SS, Impeller: Noryl, Shaft SS410Pump delivery diameter 65 mm.                                                                                                                                                                                                                                                                                                                                                                                                                                           | Nos.       |  |
| 290 | R3-ME-6-3-ak | Submersible Pump set suitable for 150 mm borehole with: 10 H.P. three phase electric motorDischarge: 510 lpm at 26 m head to 120 lpm at 94 m head Pump body: SS, Impeller: Noryl, Shaft SS410Pump delivery diameter 50 mm.                                                                                                                                                                                                                                                                                                                                                                                                                                         | Nos        |  |
|     |              | <b>Incomer 1 – 2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            |  |
|     | N            | <b>MCB</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |  |
|     | R3-ME-1-17   | Unit rate of 240V/415V, 'C' Curve, 10kA, Miniature circuit breaker suitable for DB mounting complete with connection, testing & commissioning etc. as required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |  |
| 291 | R3-ME-1-17-s | 63 Amps TPN MCB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | NO         |  |
|     |              | <b>CHANGEOVER SWITCHES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |  |
|     | R3-ME-1-4    | Change Over Switch as per IEC 60947 Part 1 & 3 / IS 13947 part 1 & 3 to be enclosed in CRCA Sheet steel 18/20 SWG standard with powder coated, rust protected(if 16/18 SWG/1.62/1.21 mm Nost available) with PVC insulated cu wires for interconnection, bus bar, earthing terminal, and all other accessories to complete the work. Changeover switch shall be wall/column mounted. Enclosure shall be weather proof. Colour shade shall be as per IS 5. MS angle iron frame to mount the unit is included.IP for enclosure shall be IP43 for Indoor unit and IP 55 for Outdoor unit                                                                              |            |  |
| 292 | R3-ME-1-4-g  | 63 Amp. 415V 4P Changeover Switch with CRCA sheet steel powder coated enclosure.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | NO         |  |
|     | F            | <b>Bus Bars</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |  |



|      |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |     |
|------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----|
| 292A | R3-ME-127-b  | 415V Pump panel with 100A MCCB as incomer with phase indicator and ammeter & voltmeter with selector switches, 2Noss. Of 32A MCB with Star delta Starter, local push button station & contactor of required rating as outgoing                                                                                                                                                                                                                                                                                                                                                                                                                                     | NO         |     |
|      | R3-ME-1-9    | Bus bar chambers, using CRCA Sheet sheet SWG 16, powder coated, rust protected enclosure. IP protection for chamber shall be IP43. Bus bar supports shall be SMC (each at every 300 mm). Incoming and outgoing Cable termination provision shall be provided with 3mm un-drilled gland plate. Colour shade shall be RAL 7032 Smoke gray as per IS 5.                                                                                                                                                                                                                                                                                                               |            |     |
| 293  | R3-ME-1-9-b  | 60 /63A TPN with tinned copper bars of size 20 x 3 mm.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Mtr.       |     |
| 294  | R3-ME-1-9-g  | Cubical Panel (Fabricated from CRCA sheet steel SWG 16, powder coated, rust protected enclosure, IP 52)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Cubic mtr. |     |
| 295  | ME-1-11-ae   | Neon indicating lights suitable to work 250V 50 c/s A.C. With low burden and flush type with colours RYB set of 3 lights.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | NO         |     |
|      |              | <b>Outgoing</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |     |
|      | N            | <b>MCCB</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |     |
|      | R3-ME-1-17   | Unit rate of 240V/415V, 'C' Curve, 10kA, Miniature circuit breaker suitable for DB mounting complete with connection,testing & commissioning etc. as required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |     |
| 296  | R3-ME-1-17-m | 32A, TP MCB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | NO         |     |
| 297  | R3-ME-1-17-l | 16A/20A, TP MCB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | NO         |     |
|      | S            | <b>Starter For Motors: (Complete with interconnections &amp; Wiring)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |     |
|      | R3-ME-1-22   | Following rating starters. Enclosure for starter shall be Corrosion resistant powder coated CRCA enclosure with IP54 protection class shall be suitable for chemical factories, polluted industrial and dusty agricultural environment. Starters shall be provided with terminal block with proper terminal marking for ease of wiring. Terminal block can accommodate both aluminum & copper cables. Starter shall be provided with ON / OFF Indication lamps and Start / Stop Push buttons. Components for motor starter shall have type 2 co-ordination compliance and built in single phase protection. Colour shade shall be RAL 7032 smoke gray as per IS 5. |            |     |
| 298  | R3-ME-1-22-c | Automatic Star Delta Starter for 5 H.P to 15 H.P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | NO         |     |
|      | 5            | <b>Fire Pump Panel</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |     |
|      |              | <b>Incomer 1 &amp; 2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |     |
|      | N            | <b>MCCB</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |     |
|      | R3-ME-1-18   | Unit rate of 415V, 10kA/16kA, Moulded case circuit breaker with Thermal magnetic overload suitable for DB mounting complete with connection, testing & commissioning etc. as required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |     |
| 299  | Fair         | 400Amps 4p, MCCB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | NO         |     |
|      | F            | <b>Bus Bars</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |     |
|      | R3-ME-1-9    | Bus bar chambers, using CRCA Sheet SWG 16, powder coated, rust protected enclosure. IP protection for chamber shall be IP43. Bus bar supports shall be SMC (each at every 300mm). Incoming and outgoing Cable termination provision shall be provided with 3mm undrilled gland plate. Colour shade shall be RAL 7032 Smoke gray as per IS 5.                                                                                                                                                                                                                                                                                                                       |            |     |
| 300  | R3-ME-1-9-f  | 400 A TPN with Tinned Copper bars of 50 x 10mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Mtr.       |     |
| 301  | R3-ME-1-9-g  | Cubical Panel (Fabricated from CRCA sheet steel SWG 16, powder coated, rust protected enclosure, IP 52)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Cubic mtr. |     |
| 302  | ME 1-11-u    | <del>Ring type current transformer Accuracy class 1, having burden of 5 VA &amp; ratio of 400/5.</del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NO         |     |
| 303  | ME 1-11-ae   | <del>Neon indicating lights suitable to work 250V 50 c/s A.C. With low burden and flush type with colours RYB set of 3 lights.</del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | NO         |     |
| 304  | ME 1-11-ag   | <del>Digital Ammeter with accuracy class 1, built in selector switch facility shall be provided. Ammeter Shall be Suitable for CT secondary 5A</del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | NO         |     |
| 305  | ME 1-11-ah   | <del>Digital Voltmeter with accuracy class 1, built in selector switch facility shall be provided.</del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | NO         |     |
|      |              | <b>Outgoing</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            | 172 |
|      | O            | <b>MCCB</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |     |



|       |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |     |
|-------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----|
|       | R3-ME-1-18   | Unit rate of 415V, 10kA/16kA, Moulded case circuit breaker with Thermal magnetic overload suitable for DB mounting complete with connection, testing & commissioning etc. as required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |     |
| 306   | R3-ME-1-18-g | 200 A, TPN MCCB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | NO         |     |
|       | N            | <b>MCB</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |     |
|       | R3-ME-1-17   | Unit rate of 240V/415V, 'C' Curve, 10kA, Miniature circuit breaker suitable for DB mounting complete with connection, testing & commissioning etc. as required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |     |
| 307   | R3-ME-1-17-m | 32A, TP MCB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | NO         |     |
| 308   | ME-1-11-d    | AC, 0-200 Amp. 96 mm. dia/sq. Moving iron, Analog Flush type panel mounted ammeter with accuracy class 1.0, scale type 90°, suitable for 500V, with connecting necessary PVC wire, side clamp, leads and lugs with suitable 3 way (for RYB) on/off selector switch.                                                                                                                                                                                                                                                                                                                                                                                                | NO         |     |
| 309   | ME-1-11-q    | Ring type current transformer Accuracy class 1, having burden of 5 VA & ratio of 200/5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NO         |     |
| 310   | ME-1-11-ae   | Neon indicating lights suitable to work 250V 50 c/s A.C. With low burden and flush type with colours RYB set of 3 lights.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | NO         |     |
|       | S            | <b>Starter For Motors: (Complete with interconnections &amp; Wiring)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |     |
|       | R3-ME-1-22   | Following rating starters. Enclosure for starter shall be Corrosion resistant powder coated CRCA enclosure with IP54 protection class shall be suitable for chemical factories, polluted industrial and dusty agricultural environment. Starters shall be provided with terminal block with proper terminal marking for ease of wiring. Terminal block can accommodate both aluminum & copper cables. Starter shall be provided with ON / OFF Indication lamps and Start / Stop Push buttons. Components for motor starter shall have type 2 co-ordination compliance and built in single phase protection. Colour shade shall be RAL 7032 smoke gray as per IS 5. |            |     |
| 311   | R3-ME-1-22-h | Automatic Star Delta Starter for 50 H.P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NO         |     |
| 311 A | R3-ME-1-22-i | Automatic Star Delta Starter for 75 H.P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NO         |     |
| 311B  | R3-ME-1-22-j | Automatic Star Delta Starter for 100 H.P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | NO         |     |
| 312   | R3-ME-1-22-c | Automatic Star Delta Starter for 5 H.P to 15 H.P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | NO         |     |
|       | 7            | <b>DG Distribution Panel</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            |     |
|       |              | <b>Incomer</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |     |
| 313   | Fair         | S.I.T.C of 630 Amp 4p MCCB in metal enclosure 36 KA thermal mag.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | NO         |     |
|       | F            | <b>Bus Bars</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |     |
|       | R3-ME-1-9    | Bus bar chambers, using CRCA Sheet steel SWG 16, powder coated, rust protected enclosure. IP protection for chamber shall be IP43. Bus bar supports shall be SMC (each at every 300mm). Incoming and outgoing Cable termination provision shall be provided with 3mm un-drilled gland plate. Colour shade shall be RAL 7032 Smoke gray as per IS 5.                                                                                                                                                                                                                                                                                                                |            |     |
| 314   | R3-ME-1-9-f  | 400 A TPN with Tinned Copper bars of 50 x 10mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Mtr.       |     |
| 315   | R3-ME-1-9-g  | Cubical Panel (Fabricated from CRCA sheet steel SWG 16, powder coated, rust protected enclosure, IP 52)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Cubic mtr. |     |
| 316   | ME-1-11-ab   | Ring type current transformer Accuracy class 1, having burden of 15 VA & ratio of 800/5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | NO         |     |
| 317   | ME-1-11-ae   | Neon indicating lights suitable to work 250V 50 c/s A.C. With low burden and flush type with colours RYB set of 3 lights.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | NO         |     |
| 318   | ME-1-11-ag   | Digital Ammeter with accuracy class 1, built in selector switch facility shall be provided. Ammeter Shall be Suitable for CT secondary 5A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | NO         |     |
| 319   | ME-1-11-ah   | Digital Voltmeter with accuracy class 1, built in selector switch facility shall be provided.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | NO         | 173 |
|       |              | <b>Outgoing</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |     |

|     |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |  |
|-----|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--|
|     | O             | <b>MCCB</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |  |
|     | R3-ME-1-18    | Unit rate of 415V, 10kA/16kA, Moulded case circuit breaker with Thermal magnetic overload suitable for DB mounting complete with connection, testing & commissioning etc. as required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |  |
| 320 | Fair          | 400Amps 4p, MCCB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | NO  |  |
|     | N             | <b>MCB</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |  |
|     | R3-ME-1-17    | Unit rate of 240V/415V, 'C' Curve, 10kA, Miniature circuit breaker suitable for DB mounting complete with connection, testing & commissioning etc. as required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |  |
| 321 | R3-ME-1-17-s  | 63 Amps TPN MCB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NO  |  |
|     |               | <b>CABLES AND END TERMINATIONS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |  |
|     |               | <b>L. T. CABLES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |     |  |
|     | Y             | <b>Cables: Supply &amp; laying "XLPE cables" on walls or through existing trenches etc.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |  |
|     |               | LV Cables of following sizes to be laid buried in ground/ laid in cable trays in ready made trenches, cables shall be fitted on wall / ceiling by the means of saddle & spacers. Miscellaneous items such as cable dressing accessories like nylon tie, Aluminum clamps, GI cleats, cable tags etc. are included in the scope. Removal of empty drums, cartoons and making the site normal as instructed by Purchaser client is included in scope.                                                                                                                                                                                                         |     |  |
|     | R3-ME-2-1     | <b>1.1 kV grade stranded Al conductor, XLPE insulated, extruded PVC inner and outer sheathed, galvanised steel round or strip armoured cables</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |  |
| 322 | R3-ME-2-1-ab  | 3.5C x 240sqmm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Rmt |  |
| 323 | R3-ME-2-1-z   | 3.5C x 150sqmm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Rmt |  |
| 324 | R3-ME-2-1-w   | 3.5C x 70sq.mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Rmt |  |
|     | R3-ME-2-3     | <b>1.1 kV grade stranded Cu conductor, XLPE insulated, extruded PVC inner and outer sheathed, galvanised steel round or strip armoured cables</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |  |
| 325 | R3-ME-2-3-s   | 4 C x 10 sq.mm 2XWY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Rmt |  |
| 326 | R3-ME-2-3-o   | 4 C x 6 sq.mm 2XWY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Rmt |  |
| 327 | R3-ME-2-3-k   | 4 C X 4 sq.mm. 2XWY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Rmt |  |
| 328 | R3-ME-2-3-j   | 3 C X 4 sq.mm. 2XWY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Rmt |  |
| 329 | R3-ME-2-3-f   | 3 C X 2.5 sq.mm. 2XWY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Rmt |  |
|     | AD            | <b>Cable End Termination For Aluminium Cables : (SP-METS-6)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |  |
|     | R3-ME-2-11    | Cable end terminations for LV, XLPE/PVC insulated, PVC sheathed, armoured/ unarmoured cables including supply and fixing of Double compression cable glands, stripping of cable insulation, supply and fixing of aluminium lugs for aluminium cables for all phases and crimping the same to the conductor for the following cables. Miscellaneous items like cable lugs, G.I nut - bolts and G.I washers , consumables and other hardware materials as required to make the installation complete, are in the scope. All G.I Nut, bolt and washers shall be HDGI with 80 micron. One set of termination includes gland, lugs for cable core & accessories |     |  |
| 330 | R3-ME-2-11-aa | 3.5C x 240sqmm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Set |  |
| 331 | R3-ME-2-11-y  | 3.5C x 150sqmm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Set |  |
| 332 | R3-ME-2-11-v  | 3.5C x 70sq.mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Set |  |
|     | AE            | <b>Cable End Termination For Copper Cables :</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |  |

|     |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |  |
|-----|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--|
|     | R3-ME-2-12   | Cable end terminations for LV, XLPE/PVC insulated, PVC sheathed, armoured/ unarmoured cables including supply and fixing of Double compression cable glands, stripping of cable insulation, supply and fixing of tinned plated copper lugs for copper cables for all phases and crimping the same to the conductor for the following cables. Miscellaneous items like cable lugs, G.I nut - bolts and G.I washers , consumables and other hardware materials as required to make the installation complete, are in the scope. All G.I Nut, bolt and washers shall be HDGI with 80 micron. One set of termination includes gland, lugs for cable core & accessories |     |  |
| 333 | R3-ME-2-12-s | 4 C x 10 sq.mm 2XWY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Set |  |
| 334 | R3-ME-2-12-r | 4 C x 6 sq.mm 2XWY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Set |  |
| 335 | R3-ME-2-12-q | 4 C X 4 sq.mm. 2XWY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Set |  |
| 336 | R3-ME-2-12-h | 3 C X 4 sq.mm. 2XWY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Set |  |
| 337 | R3-ME-2-12-g | 3 C X 2.5 sq.mm. 2XWY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Set |  |
|     | P            | <b>MCBs in 16SWG sheet steel metal box</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |  |
|     | R3-ME-1-19   | MCBs In 16 SWG CRCA sheet steel enclosure, powder coated, wall / column mounted with provision for support arrangement, 2 earthing terminal, Incoming & outgoing cable terminal etc. with required hardware & fasteners. All MCBs shall be rated for 10kA, 'C' curve type. Colour shade shall be RAL 7032 Smoke gray as per IS 5. IP 43 Enclosure.                                                                                                                                                                                                                                                                                                                 |     |  |
| 338 | R3-ME-1-19-b | 16/32 Amp. TPN MCB ( For Lift)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | No. |  |
|     | U            | <b>Earth Leakage Circuit Breaker/ Residual Current Circuit Breaker</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |     |  |
|     | R3-ME-1-25   | ELCBs In 16 SWG CRCA sheet steel enclosure, powder coated, wall / column mounted with provision for support arrangement, 2 earthing terminal, Incoming & outgoing cable terminal etc. Colour shade shall be RAL 7032 Smoke gray as per IS 5.                                                                                                                                                                                                                                                                                                                                                                                                                       |     |  |
| 339 | R3-ME-1-25-f | 40A 4 Pole ELCB ( with 30 mA sensitivity) (For Lift)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | No. |  |
|     | AO           | <b>WIRING FOR MAINS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |  |
|     |              | Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLSZH insulated copper conductor wire in surface/ recessed medium class PVC conduit as required                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |     |  |
| 340 | R3-ME-3-21-c | 2 X 4 sq. mm + 1 X 4 sq. mm earth wire in 25mm Conduit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Rmt |  |
|     | K            | <b>Distribution Board with MCB incomer &amp; outgoing</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |  |
|     | R3-ME-1-14   | Distribution board with metal door of various sizes on wall/ Column/ floor mounting, with required hardware & fasteners. For MCCB incomers, ON/OFF & TRIP indication lamps shall be provided. All MCBs shall be rated for 10kA, 'C' curve type. All the DBs are ready- made DBs inclusive of MCCB, MCB, terminal connectors, earth bus, neutral bus, undrilled gland plate and earth terminals (2nos.) Cost of DBs include rates of DB, MCB, MCCB & other accessories                                                                                                                                                                                              |     |  |
|     |              | <b>For Flats</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |  |
| 340 | R3-ME-1-14-i | IP 42 Wall/column Mounted distribution board with one no of 32A DP MCB as incomer and 6 nos 6A SP MCB as outgoing (12 way SPN DB)<br><b>Note: Refer line diagram for ingoing and outgoing MCB/ELCB</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                             | No. |  |

|     |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |  |
|-----|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--|
|     | R3-ME-1-25    | ELCBs In 16 SWG CRCA sheet steel enclosure, powder coated, wall / column mounted with provision for support arrangement, 2 earthing terminal, Incoming & outgoing cable terminal etc. Colour shade shall be RAL 7032 Smoke gray as per IS 5.                                                                                                                                                                                                    |     |  |
| 342 | R3-ME-1-25-i  | 40A 2 Pole ELCB ( with 30 mA sensitivity) (For above SPN DB)                                                                                                                                                                                                                                                                                                                                                                                    | No. |  |
|     | A0            | <b>WIRING FOR SUB MAINS/ CIRCUIT WIRING</b>                                                                                                                                                                                                                                                                                                                                                                                                     |     |  |
|     |               | Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLSZH insulated copper conductor wire in surface in casing and capping as required from Flat DBs/ switchboard to switchboard.                                                                                                                                                                                                                             |     |  |
| 343 | R3-ME-3-23-b  | 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire in 20 x 12 mm (1/2")                                                                                                                                                                                                                                                                                                                                                                                 | Mtr |  |
| 344 | R3-ME-3-23-c  | 2 X 4 sq. mm + 1 X 4 sq. mm earth wire in 25 x 12 mm ( 3/4")                                                                                                                                                                                                                                                                                                                                                                                    | Mtr |  |
|     | AP            | <b>POINT WIRING</b>                                                                                                                                                                                                                                                                                                                                                                                                                             |     |  |
|     |               | Point wiring by using FRLSH insulated copper conductors (alongwith same size of FRLSH insulated copper conductor for earthing & 3 plate ceiling rose) using CONCEALED MANNER (WITH PVC CONDUIT PIPES, M.S. BOXES ETC.) POINTS                                                                                                                                                                                                                   |     |  |
| 345 | R3-ME-3-38-a  | Light /Fan / Ex. fan Points                                                                                                                                                                                                                                                                                                                                                                                                                     | No. |  |
| 346 | R3-ME-3-34-a  | Point wiring by using FRLSH insulated copper conductors (alongwith same size of FRLSH insulated copper conductor for earthing & 3 plate ceiling rose) using CASING-N CAPING Light /Fan / Ex. fan Points Light /Fan / Ex. fan Points                                                                                                                                                                                                             | No. |  |
| 347 | R3-ME-3-37-a  | Point wiring by using FRLSH insulated copper conductors (alongwith same size of FRLSH insulated copper conductor for earthing & 3 plate ceiling rose) using G.I. CONDUIT                                                                                                                                                                                                                                                                        | No. |  |
| 348 | R3-ME-3-26-c  | 5A/6A - 3/5 Half Plug Concealed Manner with Modular switches & FRLSZH wires (First category material)                                                                                                                                                                                                                                                                                                                                           | No. |  |
| 349 | R3-ME-3-26-b  | 3/5 Pin Independent Plug (IP) Concealed Manner with Modular switches & FRLSZH wires                                                                                                                                                                                                                                                                                                                                                             | No. |  |
| 350 | R3-ME-3-26-d  | Bell Point with Bell / Buzzer & 1 Bell Push Concealed Manner with Modular switches & FRLSZH wires                                                                                                                                                                                                                                                                                                                                               | No. |  |
| 351 | R3-ME-4-15-c  | S' type M.S. fan hook fabricated from suitable dia. M.S. rod & suitable size M.S. brackets, nut bolts, washers for fixing ceiling fan on trusses. The 'S' type hook & bracket shall be painted in approved manner.                                                                                                                                                                                                                              | No. |  |
| 352 | R3-ME-3-42-i  | 15 / 5 A / 6 A Combined Power Plug Socket Point with Fuse and Indicating Lamp, One 15 Amp SP Switch                                                                                                                                                                                                                                                                                                                                             | No. |  |
|     |               | <b>COMMON AREAS LIGHTING</b>                                                                                                                                                                                                                                                                                                                                                                                                                    |     |  |
|     | R3-ME-1-15    | IP43&30 SPN, TPN, Vertical TPN Distribution board with metal door of various sizes on wall/ Column/ floor mounting, with detachable gland plate, terminal connectors and other required hardware & fasteners. DB shall be designed with provision for FP MCB/ Isolator/ RCCB / RCBO as incomer & SP / TP MCB as outgoing as per requirement. (Cost of the DBs will be without MCB, MCCB). DB shall be as per IS 8623- 1 & 3 / IEC 61439- 1 & 3. |     |  |
|     |               | <b>For Staircase And Lobby Lighting</b>                                                                                                                                                                                                                                                                                                                                                                                                         |     |  |
| 353 | R3-ME-1-15-ak | IP 43 TPN Distribution Board with metal door (Box only) 12 Way ( 8 + 36 way)                                                                                                                                                                                                                                                                                                                                                                    | No. |  |
| 354 | R3-ME-1-17-v  | 1#32A 4P MCB (Incomer)                                                                                                                                                                                                                                                                                                                                                                                                                          | No. |  |
| 355 | R3-ME-1-25-i  | 3# 40Amp. 2Pole ELCB (Sub- Incomer)                                                                                                                                                                                                                                                                                                                                                                                                             | No. |  |
| 356 | R3-ME-1-17-i  | 3# 32A DP MCB (Sub- Incomer)                                                                                                                                                                                                                                                                                                                                                                                                                    | No. |  |
| 357 | R3-ME-1-17-c  | 24# 16A/20A SP MCB (Outgoing)                                                                                                                                                                                                                                                                                                                                                                                                                   | No. |  |
|     |               | <b>For Parking &amp; External Lighting</b>                                                                                                                                                                                                                                                                                                                                                                                                      |     |  |
| 358 | R3-ME-1-15-aj | IP 43 TPN Distribution Board with metal door (Box only) 8 Way ( 8 + 24 way)                                                                                                                                                                                                                                                                                                                                                                     | No. |  |
| 359 | R3-ME-1-17-v  | 1# 32A 4P MCB Incoming                                                                                                                                                                                                                                                                                                                                                                                                                          | No. |  |

|       |              |                                                                                                                                                                                                                                                                                                                                                      |     |     |
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| 360   | R3-ME-1-25-i | 3# 40Amp. 2Pole ELCB (Sub- Incomer)                                                                                                                                                                                                                                                                                                                  | No. |     |
| 361   | R3-ME-1-17-i | 3# 32A DP MCB (Sub- Incomer)                                                                                                                                                                                                                                                                                                                         | No. |     |
| 362   | R3-ME-1-17-b | 12# 10A SP MCB Outgoing                                                                                                                                                                                                                                                                                                                              | No. |     |
|       | R3-ME-2-3    | 1.1 kV grade stranded Cu conductor, XLPE insulated, extruded PVC inner and FRLS outer sheathed, galvanised steel round or strip armoured cables (SP-ME-TS- 6)                                                                                                                                                                                        |     |     |
| 363 A | R3-ME-2-3-f  | 1st category Cu armoured cables FRLS outer sheathed- 3C x 2.5 Sq.mm                                                                                                                                                                                                                                                                                  | Mtr |     |
| 363B  | R3-ME-2-3-m  | 1st category Cu armoured cables FRLS outer sheathed- 2C x 6 Sq.mm                                                                                                                                                                                                                                                                                    | Mtr |     |
| 363C  | R3-ME-2-12-g | Cable End Termination For Copper Cables – 3C x 2.5 Sq.mm                                                                                                                                                                                                                                                                                             | Set |     |
| 363 D | R3-ME-2-12-c | Cable End Termination For Copper Cables – 2C x 6 Sq.mm                                                                                                                                                                                                                                                                                               | Set |     |
|       |              | Point wiring by using FRLSZH insulated copper conductors (along-with same size of FRLSZH insulated copper conductor for earthing & 3 plate ceiling rose) : PVC conduit concealed with modular switches & FRLSZH wires.                                                                                                                               |     |     |
| 364   | R3-ME-3-26-a | Light /Fan / Ex. fan Points Concealed Manner with Modular switches & FRLSZH wires (First category material) Light point                                                                                                                                                                                                                              | No. |     |
| 365   | R3-ME-3-26-a | Light /Fan / Ex. fan Points Concealed Manner with Modular switches & FRLSZH wires Exhaust Fan Points                                                                                                                                                                                                                                                 | No. |     |
| 366   | R3-ME-3-26-c | 5A/6A - 3/5 Half Plug Concealed Manner with Modular switches & FRLSZH wires (First category material)                                                                                                                                                                                                                                                | No. |     |
| 367   | R3-ME-3-42-k | Group Control Point Wiring 4-8 Points Controlled by One 15 A SP Switch                                                                                                                                                                                                                                                                               | No. |     |
|       | Q            | <b>Supply, Install, Testing &amp; Commissioning of switchboards in following configurations: (16SWG GI Junction Box Complete with Earthing terminal, Interconnection &amp; wiring)</b>                                                                                                                                                               |     |     |
|       | R3-ME-1-20   | 16 SWG G I Junction Box of various sizes For loop in loop out cables. Junction box shall have suitable no. of knock out for incoming & outgoing cables. Cables shall be terminated in 10A heavy duty connector. Cost of the connector shall be included in the cost of Junction box. Colour shade shall be RAL 7032 Siemens gray as per IS 5. (IP55) |     |     |
| 368   | R3-ME-1-20-b | 100 x 100 x 50mm G.I. junction box with knock out & 10 Amp Connector block/strip (For External Lighting )                                                                                                                                                                                                                                            | No. |     |
| 369   | R3-ME-1-20-e | 100mm x 100mm x 50mm size GI Junction box with knock out & 1 No. 5Amp. SP switch & 5 Amp. Three Pin Socket for local isolation.                                                                                                                                                                                                                      | No. |     |
| 370   | R3-ME-1-20-d | 100mm x 100mm x 50mm size GI Junction box with knock out & 1 No. 5Amp. SP switch for local ON, OFF operation. (for lift and passage lighting)                                                                                                                                                                                                        | No. |     |
|       |              | <b>LIGHTING FIXTURES &amp; CEILING FANS</b>                                                                                                                                                                                                                                                                                                          |     |     |
|       | BG           | <b>T-5 Fixtures (SP-ME-TS-20)</b>                                                                                                                                                                                                                                                                                                                    |     |     |
|       | R3-ME-4-5    | Light fixtures complete with:<br>a) All fixing accessories, mounting Brackets etc. necessary for completeness of installation.<br>b) Lamp of specified wattage<br>c) Electronic ballast of suitable capacity as per specification                                                                                                                    |     |     |
| 371   | R3-ME-4-34-a | 1X 18W                                                                                                                                                                                                                                                                                                                                               | No. |     |
| 372   | R3-ME-4-33-c | 12-15W                                                                                                                                                                                                                                                                                                                                               | No. |     |
|       | BI           | <b>FANS (SP-ME-TS-28)</b>                                                                                                                                                                                                                                                                                                                            |     |     |
| 373 A | R3-ME-4-12-e | Ceiling fan of 1400 mm sweep with all accessories including Electronic Regulator for completing installation as per specification.                                                                                                                                                                                                                   | No. |     |
| 373B  | R3-ME-4-12-d | Ceiling fan of 1200mm sweep with all accessories including Electronic Regulator for completing installation as per specification                                                                                                                                                                                                                     | No. |     |
| 374   | R3-ME-4-12-b | Ceiling fan of 900 mm sweep with all accessories including Electronic Regulator for completing installation as per specification.                                                                                                                                                                                                                    | No. | 177 |

|     |              |                                                                                                                                                                                                                   |     |  |
|-----|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--|
| 375 | R3-ME-4-12-h | Exhaust fan of 230 mm sweep, 1400 RPM, with 450 CFM free air delivery, AC 230V/415V , 50 Hz, single phase / three phase complete with all necessary accessories for completing installation as per specification. | No. |  |
|     | R3-ME-4-32   | <b>Downlighter/Wall mounted LED:-</b>                                                                                                                                                                             |     |  |
| 376 | R3-ME-4-32-b | 9-10 W                                                                                                                                                                                                            | No. |  |

|       |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |     |
|-------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
|       | R3-ME-4-21   | Energy saver bulkhead luminaire, made of cast aluminum body pretreated and stove enameled paint with poly carbonate housing in various colours duly wired with ballast and all accessories mounted on a CRCA sheet steel tray,a high impact clear prismatic heat & UV resistant poly carbonate diffuser with protection class of at least IP 54 <b>(SP-ME-TS-23)</b>                                                                                                                                                                               |      |     |
| 377 A | R3-ME-4-21-b | with 9/11W CFL lamp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | No.  |     |
| 377B  | R3-ME-4-34-e | LED Bulkhead fitting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | No.  |     |
|       | BQ           | <b>ENERGY SAVING FIXTURES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |     |
|       | R3-ME-4-26   | <b>Corrosion Proof Energy Saver luminaire (SP-ME-TS-21) (For External )</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |     |
| 378 A | R3-ME-4-26-c | 20W LED Street Light Luminaire with Polycarbonate Diffuser IP65 - High Impact proof multipurpose utility lighting for ROAD lighting and also could be ceiling & wall mounted. Designed to be Energy Saver, Dust proof, Weatherproof, corrosion proof and high impact proof against vandalism. The housing comprises of Aluminum extruded body wired with high powered LED, Electronic Driver. High Powered LED mounted on Aluminum clad PCB A clear UV resistant Polycarbonate Diffuser/cover is hinged to the housing with silicon rubber gasket. | No.  |     |
| 378B  | R3-ME-4-27-c | Outdoor LED Street Light fittings – 36-48 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | No.  |     |
| 379   | R3-ME-10-3-e | Swan neck type bracket for fixing HPMV / HPSV lamp fixtures mounting on wall / shed etc. 0.5 to 1.2 Mtrs.                                                                                                                                                                                                                                                                                                                                                                                                                                          | No.  |     |
|       | P            | <b>METER ROOM ( MCBs in 16SWG sheet steel metal box)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |     |
|       | R3-ME-1-19   | MCBs In 16 SWG CRCA sheet steel enclosure, powder coated, wall / column mounted with provision for support arrangement, 2 earthing terminal, Incoming & outgoing cable terminal etc. with required hardware & fasteners. All MCBs shall be rated for 10kA, 'C' curve type. Colour shade shall be RAL 7032 Smoke gray as per IS 5. IP 43 Enclosure.                                                                                                                                                                                                 |      |     |
| 380   | R3-ME-1-19-a | 16/32 Amp. DP MCB (For Flats)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | No.  |     |
| 381   | R3-ME-1-19-c | 63 Amp. TPN MCB (For Common area Panel & Plumbing Panel)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | No.  |     |
| 382   | R3-ME-3-14   | Providing single phase electric energy meter's board wiring by using 2 wires of 3/20 SWG PVC insulated copper conductor wires complete with fixing on board by using H.G. brass clips,terminations, etc.                                                                                                                                                                                                                                                                                                                                           | Mtr. |     |
|       | G            | <b>1.1 KV GRADE COPPER FLEXIBLE WIRE WITH SINGLE PVC INSULATED "METER LEADS" COMPLETE WITH FLEXIBLE PVC CONDUIT, END TERMINATIONS, CLIPPINGS ETC.:</b>                                                                                                                                                                                                                                                                                                                                                                                             |      |     |
| 383   | R3-ME-1-10-c | 1.1 kV grade 2 nos. (P+N) copper conductor flexible cable of area 4.0 sq mm and 1no. (E) 2.5 sq. mm copper cable for 30/32 Amp. single phase switch.                                                                                                                                                                                                                                                                                                                                                                                               | Mtr. |     |
| 384   | R3-ME-1-10-d | 1.1 kV grade 4 nos. (3P+N) copper conductor flexible cable of area 6.0 sq mm and 1no. (E) 2.5 sq. mm copper cable for 30 /32 Amp. three phase switch.                                                                                                                                                                                                                                                                                                                                                                                              | Mtr. |     |
|       |              | <b>Telephone &amp; Television:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |     |
|       |              | Supply, Install, Test & Commission of following surface switchboards, each consisting switches / sockets / fan regulators / T.V.sockets                                                                                                                                                                                                                                                                                                                                                                                                            |      | 178 |



|     |                    |                  |      |  |
|-----|--------------------|------------------|------|--|
| 385 | CE 5-12-012FAE 265 | <b>TV Socket</b> | No.  |  |
| 386 | R3-ME-12-4-c       | RG 6 Copper      | Mtr. |  |
| 387 | R3-ME-12-4-e       | RG 11            | Mtr. |  |

|     |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |  |
|-----|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--|
| 388 | R3-ME-12-5-d | PVC box & cover plate with RJ-11 for Telephone access only                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | No.  |  |
|     | R3-ME-12-3   | <b>SITC OF ARMoured JELLY FILLED TELEPHONE CABLES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |  |
| 389 | R3-ME-12-3-a | Armoured Telephone Cable - 10 pair                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Mtr. |  |
| 390 | R3-ME-12-2-a | PVC Telephone Cable - 2 pair                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Mtr. |  |
|     | R3-ME-12-6   | <b>M. S. Junction Box for EPABX:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |  |
| 391 | R3-ME-12-6-e | 200 pair M. S. Junction Box for EPABX:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | No.  |  |
| 392 | R3-ME-12-6-c | 50 pair M. S. Junction Box for EPABX:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | No.  |  |
| 393 | R3-ME-12-6-a | 10 pair M. S. Junction Box for EPABX:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | No.  |  |
|     | R3-ME-12-8   | <b>ONLY PVC CONDUITS LAYING (SP-ME-TS-61)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |  |
| 394 | R3-ME-12-8-a | 25mm. - Only PVC Conduits laying                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Rmt. |  |
|     | CT           | <b>Lightning Protection(SP-ME-TS-37)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |  |
| 395 | R3-ME-7-2    | Lightning Protection of 5 pronged air terminal as per of technical specification. Earth continuity conductor and earthing pits for the same as per requirement & rate. Earth station as per above specification & rate.                                                                                                                                                                                                                                                                                                                                                                                                        | No.  |  |
| 396 | R3-ME-7-3-a  | 25 x 3 mm GI (length : 300 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Mtr  |  |
| 397 | R3-ME-7-1-b  | Earthing station with 100mm Dia., 13mm thick, 3000 mm long CI pipe earth pit as per IS 3043. The earth pit shall be provided with watering pipe (Class B) with wire messed funnel, 25x3 GI strip / 8 SWG GI wire up to chamber (wire or strip size as per fault level), disconnecting links with 600 x 600 mm (clear) RCC chamber & heavy duty 3mm thick CI chequered plate cover with hinge & stainless steel bolts. Bentonite/ Charcol & Salt shall be provided for earth pits. Excavation, back filling, removal of excess soil is included in the scope                                                                    | No.  |  |
|     | CV           | <b>Earthing Continuity Conductors</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |  |
|     | R3-ME-7-4    | Supply & installation of Earth conductor of the following sizes to be cleared on wall\ columns with nuts & bolts or laid in cable tray /buried in ground including cutting, drilling, tapping, jointing by welding, connecting to equipment, painting to welded portion by black bitumen paint and with all necessary GI hardware & accessories to complete the work                                                                                                                                                                                                                                                           |      |  |
| 398 | R3-ME-7-4-m  | Bare G.I. Conductor size 8 SWG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Rmt  |  |
| 399 | R3-ME-7-4-f  | 25 x 6mm GI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Rmt  |  |
| 400 | R3-ME-7-4-e  | 25 x 3mm G.I.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Rmt  |  |
|     | CS           | <b>Earthing (SP-ME-TS-37)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |  |
| 401 | R3-ME-7-1-c  | Earthing station with 600 mm x 600 mm x 6 mm galvanized iron plate and 50 mm dia G.I pipe 300 mm long G.I pipe (Class B or better) earth pith as per IS 3043, The earth pit shall be provided with watering pipe (Class B) with wire messed funnel , 25 x 3 G.I strip / 8 SWG GI wire upto chamber (wire or strip size as per fault level ), disconnecting links with 600 x 600 mm (clear) RCC chamber and heavy duty 3mm thick CI Exchequer plate cover with hinge & stainless steel bolts. Bentonine / Charcoal & Salt be provided for earth pits. Excavation, back filling, removal of excess soil is included in the scope | No.  |  |

|     |                |                                                                                                                                                                                                                                                                                                                                                            |          |     |
|-----|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----|
| 402 | SIC-FF-FAIR-01 | <b>Providing &amp; Fixing Bison Board/Cement Sheet 18/19 mm</b>                                                                                                                                                                                                                                                                                            | Sq. mtr. |     |
| 403 | R3-ME-13-1-bh  | Rubber mat 2mm thick size 3x5 feet                                                                                                                                                                                                                                                                                                                         | Sq.ft.   |     |
|     | MA-R2-ME-160   | <b>D.G.SET WITH PANEL (SP-ME-TS-31)</b>                                                                                                                                                                                                                                                                                                                    |          |     |
| 404 | R3-ME-6-17-o   | 250KVA                                                                                                                                                                                                                                                                                                                                                     | NO       |     |
|     | R3-ME-6-18     | SITC OF AUTOMATIC MAINS FAILURE PANEL SUITABLE TO DG SET                                                                                                                                                                                                                                                                                                   |          |     |
| 405 | R3-ME-6-18-p   | 250 KVA                                                                                                                                                                                                                                                                                                                                                    | NO       |     |
|     | R3-ME-2-19     | Supply and laying of Heavy duty RCC Hume pipe for road crossing, below plinth beam of following size as diameter.                                                                                                                                                                                                                                          |          |     |
| 406 | R3-ME-2-19-b   | 150mm Dia.                                                                                                                                                                                                                                                                                                                                                 | Mtr.     |     |
| 407 | R3-ME-11-1-k   | Construction of brick masonry Rectangular chamber of 3' x 1.5' x 2' depth size with C.I. cover                                                                                                                                                                                                                                                             | JOB      |     |
| 408 | R3-ME-2-8      | Excavating the trenches and refilling, reinstatement of the same after the cable is laid in approved manner (750 mm deep, 600 mm wide), in all types of soils 1 Cu. Mtr. = 2.2 RMT.                                                                                                                                                                        | Cu. Mtr. |     |
| 409 | R3-ME-2-9      | Excavating the trenches and refilling the same after the cable is laid in approved manner (Size of trench: 750 mm deep, 600 mm wide) in concrete/ masonry / asphalt. 1 Cu. Mtr. = 2.2 RMT. And reinstatement.                                                                                                                                              | Cu. Mtr. |     |
|     |                |                                                                                                                                                                                                                                                                                                                                                            |          |     |
|     |                | <b>Total of Section 'E' .....</b>                                                                                                                                                                                                                                                                                                                          |          |     |
|     |                |                                                                                                                                                                                                                                                                                                                                                            |          |     |
|     |                | <b><u>Section F : Elevators</u></b>                                                                                                                                                                                                                                                                                                                        |          |     |
|     |                |                                                                                                                                                                                                                                                                                                                                                            |          |     |
| 410 | FAIR           | Supplying Installation Testing and Commissioning of <b>33stops Passenger lift</b> at Staff Quarters Specification Make: KONE /OTIS/ Mitsubishi/ Schindler/ Johnson/Thyssenkrup 5 Level Podium + Stilt + <b>27 Flrs, 33 Stops</b> (opening on the same side), capacity-13 Per-sons, Speed(mps) 1.75MPS <b>Capacity 1020 Kg 15 Persons- 8 nos</b>            | No.      |     |
| 411 | FAIR           | 2) Supplying Installation Testing and Commissioning of <b>33 stops Fire evacuation lift</b> at Staff Quarters Specification Make: KONE/ OTIS/ Mitsubishi/ Schindler/ Johnson/Thyssenkrup 5 Level Podium + <b>Stilt + 27 Flrs, 33 Stops</b> (opening on the same side), capacity-15 Persons, Speed(mps) 1.75MPS,. <b>Capacity 1020 Kg 15 Persons- 6 nos</b> | No.      |     |
|     |                |                                                                                                                                                                                                                                                                                                                                                            |          |     |
|     |                | <b><u>Note-</u> 1) Items to be operated in this tender having minimum Specification is given herewith for preparation of BOQ to be by tenderer. 2) All items to be operated will be of</b>                                                                                                                                                                 |          |     |
|     |                |                                                                                                                                                                                                                                                                                                                                                            |          | 180 |



|     |              |                                                                                                                                                                                                                                                                                                                                                                          |     |  |
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|     |              | <b>minimum Class I(Premium) specification available as given above or available in USOR-2023. If item is not available in USOR-2023, then same should be taken from Schedule rate prevailing in schedule to be used by State PWD/CPWD/Railway/MES of Class I(Premium) material and specification.</b>                                                                    |     |  |
| 412 | R3-ME-5-6-a  | LED type Solar street light fixtures with heat sink for LED, crystalline/ polycrystalline silicon solar PV modules, suitable size of maintenance free battery along with 5.5 mtr , 65mm dia GI pole with civil foundation, base plate, nut , bolts etc and all accessories required for completing installation as per specification. Solar street light of 5/6 Watt LED | Nos |  |
|     | R3-ME-5-6-b  | Solar street light of 10 Watt LED                                                                                                                                                                                                                                                                                                                                        | Nos |  |
|     | R3-ME-5-6-c  | Solar street light of 12 Watt LED                                                                                                                                                                                                                                                                                                                                        | Nos |  |
|     | R3-ME-5-6-d  | Solar street light of 18 Watt LED                                                                                                                                                                                                                                                                                                                                        | Nos |  |
|     | R3-ME-5-6-e  | Solar street light of 24 Watt LED                                                                                                                                                                                                                                                                                                                                        | Nos |  |
| 413 | R3-ME-16-3-j | Internal Gas Pipe Line-MS Tata C Class ERW Pipe 80mmNB                                                                                                                                                                                                                                                                                                                   | MTR |  |

| <b>B. FACILITIES IN EACH BUILDING</b> |            |                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                        |  |
|---------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--|
| <b>1) Staircase</b>                   |            | <ul style="list-style-type: none"> <li>Minimum 2.0 m wide staircase flight with single piece kotah stone treads &amp; risers R.C.C. Pardi with S. S. pipe as handrail and minimum height of 1.05 m.</li> <li>M. S. Collapsible gate at Entrance at Gr. Floor with two coats of enamel paint over a coat of primer.</li> <li>FRD door at terrace level as approved by BMC.</li> </ul> |                                                                                        |  |
|                                       | Electrical | <ul style="list-style-type: none"> <li>The staircase shall be well lit and well ventilated with glazed aluminum sliding window</li> <li>1 light point at each landing level and mid landing level.</li> <li>Fire resistance rating for staircase FRD, lift lobby/protected lobby.</li> </ul>                                                                                         | <ul style="list-style-type: none"> <li>Electrical wiring: Polycab, Finolex</li> </ul>  |  |
| <b>2) Lift</b>                        |            | <ul style="list-style-type: none"> <li><b>Minimum capacity of 15 persons</b> and design as per relevant IS codes and given specifications.</li> <li>Maintenance by the manufacturer for a period of 10 years after O.C.C.</li> </ul>                                                                                                                                                 | <ul style="list-style-type: none"> <li>Lift: Schindler/Otis/ Johnson/ Omega</li> </ul> |  |



|                                               |  |                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                               |
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|                                               |  | <ul style="list-style-type: none"> <li>A separate water tank shall be provided in case of water from bore well in case where municipal water supply is not available or insufficient and separate water tanks and lines for domestic and fire &amp; flushing water system.</li> </ul>                                                           |                                                                                                                                               |
|                                               |  | <ul style="list-style-type: none"> <li>Capacity of OHT/UGT as per BMC norms and that of fire tank as per CFO.</li> </ul>                                                                                                                                                                                                                        |                                                                                                                                               |
| <b>7) Ducts/Shafts</b>                        |  | <ul style="list-style-type: none"> <li>It is desirable that all vertical plumbing may be hidden from view and pass through external vertical ducts.</li> <li>Similarly all electrical wiring telephone wires, internal and TV cables will pass through special ducts provided for the purpose and accessible through lockable doors.</li> </ul> | <ul style="list-style-type: none"> <li>Ducts shall be designed to facilitate easy access for repair maintenance purpose in future.</li> </ul> |
| <b>8) Terrace water proofing</b>              |  | <ul style="list-style-type: none"> <li>The terrace floor slab shall be water proofed. Brick bat coba shall be used for providing proper gradient for drainage of rain water to nearest down take rain water pipes.</li> <li>The terrace shall be finished with white glazed china mosaic.</li> </ul>                                            | As per Specifications.                                                                                                                        |
| <b>9) External wall finish and Appearance</b> |  | <ul style="list-style-type: none"> <li>External facades of the buildings shall be neat and with pleasing aesthetics and color combinations. The wall surface shall be finished with</li> </ul>                                                                                                                                                  | <ul style="list-style-type: none"> <li>Paint: Asian Paint/Goodlas</li> <li>Nerolac/Berger.</li> </ul>                                         |

|                                     |  |                                                                                                                                                                                                                                                                                                                                                                                          |     |
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|                                     |  | Waterproof OS and sand faced plaster in two coats plaster in case of brick masonry construction or exposed in case of monolithic concrete construction. In either case, the wall surface will be painted externally with rain coat paint of Dr. Fixit or 100% cement weather proof paint of ISI Mark Company. Extra polymer coating of ISI marks company on all the exterior dead walls. |     |
| <b>C. INFRASTRUCTURE FACILITIES</b> |  |                                                                                                                                                                                                                                                                                                                                                                                          |     |
| <b>1) Compound Wall</b>             |  | <ul style="list-style-type: none"> <li>Min.1.5 m height with RCC pillars/beams 230 mm thick brick masonry wall with pillars as required and R.C.C coping on top.</li> </ul>                                                                                                                                                                                                              |     |
| <b>2) Gate</b>                      |  | <ul style="list-style-type: none"> <li>M. S. Ornamental gate with good design of Min. size 4.5m to 6.0m wide 1.5 m height with M.S. frame &amp; Grill with track on wheel, locking arrangement.</li> </ul>                                                                                                                                                                               |     |
| <b>3) Plinth Protection</b>         |  | <ul style="list-style-type: none"> <li>Minimum 1.00 m plinth protection in PCC 150 mm thick. M 25 all around building with soling below over finished Ground level with paver blocks of 80 mm thick.</li> </ul>                                                                                                                                                                          | 183 |

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|-------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| <b>4) Vehicular access / Parking lots</b> |  | <ul style="list-style-type: none"> <li>Well paved WBM roads with tarmac for vehicular access building on all layout roads and in open parking area. Walkways, footpaths etc. with cement lacquered coated paver blocks 80 mm thick/trimix concrete on 15 cm thick M30 concrete around building with min. width for maneuvering of fire engine as suggested by CFO.</li> <li>Parking areas shall be provided as per provision in layout, if any.</li> </ul> |                                                                                              |
| <b>5) Lighting</b>                        |  | <ul style="list-style-type: none"> <li>General light points around building and along compound wall are to be provided with light post wherever required. The Entrance gate will be well lit with decorative lights.</li> </ul>                                                                                                                                                                                                                            |                                                                                              |
| <b>6) Security Guard cabin</b>            |  | <ul style="list-style-type: none"> <li>A well lit and well ventilated security guard cabin is to be provided near all entrance gates.</li> </ul>                                                                                                                                                                                                                                                                                                           |                                                                                              |
| <b>7) Common toilet</b>                   |  | <ul style="list-style-type: none"> <li>A common toilet for security guards and other personnel shall be provided at ground floor level complete with WC, washbasin and bathing facility. The toilet will be well lit and ventilated complete with dado tiling upto full height.</li> </ul>                                                                                                                                                                 | <ul style="list-style-type: none"> <li>Sanitary Fittings: Jaquar, Cera, Parryware</li> </ul> |
| <b>8) Undergroun d water tank</b>         |  | <ul style="list-style-type: none"> <li>An RCC Underground water tank as per statutory requirements and norms with man-holes and man-hole</li> </ul>                                                                                                                                                                                                                                                                                                        |                                                                                              |

|                                |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
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| <b>&amp; pumps, pump rooms</b> |  | <p>covers with locking arrangement and pump room and pumps including standby arrangement (or submersible pumps) to be provided. Separate UG tank compartments and pumping arrangement for domestic and flushing water and fire requirements.</p> <ul style="list-style-type: none"> <li>Water proofing treatment to UG tank by injection grouting/IS approved chemical base treatment from inside &amp; outside and bottom with box type water proofing treatment.</li> </ul> |  |
|--------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

|                                                                      |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                             |
|----------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <b>9) Sewerage</b>                                                   |  | <ul style="list-style-type: none"> <li>All waste water soil pipes shall be connected to external sewage system through gully traps and glazed stoneware pipes. Brick masonry with smooth cement plastered chambers with heavy duty CI/ FRCC covers shall be provided at required intervals through the route of stoneware pipes/ RCC Pipes The discharges will be in municipal sewer if available or in septic tanks, designed and built to necessary size. The discharges will finally end in soak pits.</li> <li>Sewage treatment plant with separate UG tank for treated soil water shall be provided for water re-cycling.</li> </ul> | <ul style="list-style-type: none"> <li>UPVC down take pipe with 6" dia. and 1' dia. R.C.C pipe connecting to main sewerage line.</li> </ul> |
| <b>10) Storm water drainage</b>                                      |  | The runoff water at ground level and road / paved areas will be drained through storm water drains (properly covered by CI/RCC heavy duty grated covers) and connected to the UG water harvesting tank through a water treatment media for recycling and as per SWD remarks issued by BMC.                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                             |
| <b>11) Electric sub station</b>                                      |  | As per approval/remarks/requirement of D. C. rules/norms & utility supplier.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                             |
| <b>12) Rain water, sewage treatment plant, fire fighting systems</b> |  | As per approval/remarks/requirement of D. C. rules & BMC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                             |
| <b>13) Amenities</b>                                                 |  | Club House on stilt floor as per approval/remarks/requirement of D. C. rules & BMC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                             |

Note: All the work is to be executed following the latest Indian and relevant Indian standard codes for material, workmanship and quality.

## **NORMS FOR STRUCTURAL DESIGN**

1. The structural design to be based on criteria and loading as mentioned below :

The exposure condition for foundation shall be taken to cater for any chemical contents of the soil and existing marine clay. For super structure, the exposure condition shall also be taken as severe. Also the requirement of durability as per IS 456:2000 shall be met.

For protection of all the RCC members, coal Tar-epoxy coating shall be applied on all the surfaces in contact with soil or ground.

Type of cement is to be used if sulphate/chloride or both are present and in this case minimum cement content as per relevant stipulations of IS : 456 – 2000 is to be adopted.

In the area located near creek and exposed to saline atmosphere, cover shall be maintained for structure as per relevant clause of IS 456:2000. The minimum grade of concrete for RCC work should be M-40.

- i) The area is located in seismic zone – III, hence the buildings are to be designed for seismic forces in Zone- III and as per the relevant clauses in IS: 1893 – 2002, IS: 456 – 2000 and ductile detailing as per IS: 13920 – 1993 shall be adopted.
  - ii) The stipulations given in IS 4326 – 1993 shall be followed wherever applicable.
  - iii) RCC walls shall be designed in accordance with Section – 5 or Annexure – B of IS : 456 – 2000 and satisfy the requirement of clause 32 of IS : 456 – 2000 except as modified by the provision of IS : 13920 – 1993 and IS : 1893 – 2002.
  - iv) Over head/ Underground water tank (water retaining structures) should be designed as un-cracked sections as per IS: 3370.
  - v) In case of pile foundation IS: 2911 (Part I to IV) latest revised version is to be adopted.  
Piles to have permanent 6 to 8mm liner upto rock level.
  - vi) Plasticiser or other admixtures to be used shall be as per the approval of the Engineer-in- charge before starting the work as per approved list mentioned.
- a) RCC element to be provided with the continuity reinforcement to prevent cracking due to fixity condition included because of the continuity with other elements.
- b) The panel walls shall be designed for wind load.
- c) Soil in foundation and plinth filling shall be compacted or consolidated or given any other suitable treatment so as not to undergo volume changes due to consolidation or due to proximity of ground water or surface water.
- d) The proposed site is situated at the place where reclamation is to be carried out on marshy/slushy soil. It is quite possible that mass excavation, heavy de-watering may be required during execution of sub-structure.
- e) The external wall shall extend at least 150 mm below finished ground level. The external wall and plinth protection shall be so designed so as to prevent entry of rodent into the building.

- f) Cold joints in concrete shall be properly cleaned and painted with epoxy or equivalent bonding agent.
- g) The Contractor shall note that the cost involved in carrying out experimental design/alternate methodology, design, if any, as provided in IS 456 including behavior of units/joints etc., for Non Conventional construction or equivalent, and/or taking the expert opinion from the expert selected by BMC, in the event of difference of opinion between the Contractor and the BMC shall be to the Contractor /Developers account. The expert's opinion shall be binding on both the parties.

**1.1** The structural design shall be based on the latest revised version of following ISI and any other relevant ISI codes (BIS).

- a) Recommendation for detailing of reinforcement in IS-5225 1969 reinforced concrete works.
- b) Code of practice for Design and Construction of Foundation IS-1904 1986 in soils :

General requirements.

- c) Schedule of unit weight of building materials                      IS 1911 1967
- d) Code of Practice for design loads (other than  
Earthquake) for buildings and structures  
  
Part-5 Special loads and load combinations                      IS 875 (Part-5): 1987
- e) Earthquake resistant design and construction                      IS 4326 : 1993  
of buildings – Code of Practice
- f) Criteria for earthquake resistant design of                      IS 1893 : 2002  
Structure
- g) Ductility Detailing                      IS 13920 : 1993
- h) Explanatory hand book on Masonry Design &                      SP-20  
Construction by Bureau of Indian Standards                      (S & T:  
1991)
- i) Code of practice for plain & reinforced concrete                      IS 456 : 2000
- j) Element design                      IS456 : 2000  
IS 1904:1986  
IS 2911 (Part-I): 1979  
IS2911 (Part-  
2&3):1980& IS  
2911(Part-4): 1985

The foundation shall be so engineered that short term and long term settlement (including differential settlement between adjoining columns/walls) is within permissible limits as per stipulations of IS 1904 and IS 456 : 2000.

Open foundations or ***precast/cast in situ pile*** foundations will be adopted as per the site conditions and no extra cost will be claimed for modifications, if required, in designing and providing suitable foundations as per the requirements of strata.

## **1.2 PROCEDURE FOR SUBMISSION OF STRUCTURAL DESIGN:**

The Contractor /Developer shall have to submit the structural design calculation in Stadd pro software / or any other validated software along with structural drawing to PMC appointed by BMC through Engineer-in-charge and have the same vetted by IIT/VJTI.

These structural drawing and design calculations will be proof checked by proof consultant and issued to concerned Engineer-in-charge for execution purpose.

## **1.3 STRUCTURAL ADEQUACY CERTIFICATE:**

Structural adequacy certificate along with structural design and indemnity bond on Rs. 100/- Stamp Paper to be submitted at the time of final submission of design calculations and structural drawings for proof checking by the Developer. These documents shall be duly validated by project management consultants.

## **NORMS OF PLUMBING**

**2.0** Design shall be as per National / building Code – Latest or as per the relevant guidelines of local authorities in this matter.

### **2.1 WATER SUPPLY:**

- a) Consumption – As per relevant guidelines of local authorities in this matter.
- b) Family size 5/tenement
- c) Overhead capacity – 50 % of day requirement with free board of 0.3 mt. as per IS standards.
- d) Underground tank capacity - 100% of one day requirement
- e) Top of underground tank shall be 0.15 mt. flushed with ground with sloped edges above finish plot level.
- f) Duration for availability of water for pumping shall be assumed as per relevant guidelines of local authority in this matter – 100% stand by electric pumps shall be provided. Separate electric meter shall be provided.
- g) All the water pumps shall be submersible pumps with automatic control panel with water level indicator having 50% standby arrangement of pumps. Capacity of pumps will be as per CFO requirement.
- h) The pumps shall be so designed that the entire overhead tanks shall be filled within 2 hours and stop with automatic sequential controller.
- i) The power supply arrangement to the pumping station including XLPE 3.5 Core armoured cables of suitable size shall be laid from sub-station with earthing arrangement.
- j) The work shall contain required switchgear, starter, and capacitor with separate metering arrangement including energy meter as per MSEDCL/TATA POWER/ADANI ELECTRICITY requirements.
- k) The design should be got approved before execution from Engineer-in-charge.



- l) Separate tested water meter with stand by water meter of ISI Mark & with Test Report, shall be provided for each underground tank. The location of water meter should be nearest to the compound wall with approval from BMC's competent authority.
- m) UPVC pipe of appropriate – class shall only be allowed for piping for pipe line.
- n) Design shall be such as to ensure equal and simultaneously flow (tolerance  $\pm 15$  min) for all tenements.
- o) Testing of acceptance of the system as per B.I.S. with minimum of 5 kg/sq.cm. for internal and 7.5 kg/sq.cm. for all external pipes.
- p) Teflon/Synthetic tape shall be used for jointing.
- q) All UPVC pipes embedded in wall shall be well covered by bitumen dipped spun yarn.
- r) At terrace level criss-crossing of pipe line shall not be permitted. All pipe lines shall run along the parapet walls.
- s) Shower Rose brass CP with swivel joining 50 dia. to be provided.
- t) Water taps: All water taps should be of heavy class.
- u) Stop cock should be provided for the wash basin and flushing tank. In addition to this stop cock should also be provided at the entry of the water supply pipe into the tenement.
- v) Deep seal nahani trap with grating to be providing in bath area, and below kitchen sink with appropriate size as approved by EIC.
- w) Aluminum ladder of 450 mm width of adequate length and structural sections shall be provided to each of the overhead water storage tanks. The inclination, hand railing steps etc. shall be structurally sound and safe to climb up all as approved by EIC.

## 2.1 SEWERAGE:

- a) Single stack and one pipe system shall be accepted.
- b) CI pipe for ground floor upto first inspection chamber and for above PVC pipes shall be used with Epoxy joints. The pipes shall be fixed on proper MS flats brackets (50mm wide x 6 mm thick Mild steel flats) and GI 'U' clamp and nuts with, 50 mm gap from wall.
- c) All hidden joints shall be provided with flash stripes.
- d) No joints shall be permitted in wall, slab or columns.
- e) Rat-Guards shall be provided on the pipes.
- f) Joints with floors/walls and fixtures shall be treated/caulked with Epoxy mortar. Joint filler for PVC pipes shall be spun yarn soaked in cement 20mm deep further 20mm with CM: 1:2 and further top with min 10 mm epoxy mortar finished at 45°.
- g) Acceptance testing – smoke test.
- h) C.I Nahani trap below kitchen sink is compulsory. "P" type bottle trap with PVC East pipe 40 mm dia for wash hand basin should be provided.
- i) Single piece PVC pipe from WC upto flushing cistern to be provided.
- j) No combined pipe for S.W. Drains and sewerage shall be permitted.

- k) All P & S trap shall be deep seal with seal not less than 80 mm.
- l) PVC will be accepted for soil and waste water pipes / C.I. pipe of required dia. is to be provided upto 1<sup>st</sup> floor level.
- m) PVC water spouts to be provided over the slab of in every W.C. & Bath.
- n) All pipe lines shall be painted in oil paint of colour of external wall.

## **2.0 RAIN WATER PIPE:**

- a) Size shall be sufficient to carry storm water discharge due to rain fall intensity of 15. 87 cms/ hr. and with run off co-efficient of one.
- b) Approved make PVC SWR grade ultra violet stabilized pipes conforming to IS 4985 with rubber grove socket and with fittings conforming to B.S. 4514 shall be used with all accessories like, treated door access, bends, shoes, access, chips etc. Complete and with C.I. gratings, PVC clamps.
- c) No Spout for discharging rain water shall be allowed except for staircase mid landing, landing, and balconies.
- d) Accept Testing – hydraulic test or Smoke test as per direction of Engineer in charge.
- e) All pipe line shall be suitably painted in oil paint.

## **2.0 INTERNAL ELECTRIFICATION:**

- a) Load to be distributed equally on all three phase.
- b) ELCBS to be provided for each tenement.
- c) Loop in system to be adopted for internal Electrification.
- d) A separate meter box shall be provided in each building. Meter board, tested meter of appropriate capacity and necessary copper wiring shall be provided by the developer. The meter should be 0.6 m. above the ground level.
- e) The work shall conform to the Bureau of Specification of India specifications (ISS 732).
- f) Earthing should be relevant standard accepted by MSEDCL/TATA POWER/ADANI ELECTRICITY.
- g) Separate energy meter should be provided for individual staircase / individual tenements / common services.
- h) The developer should get the meter board layout approved from MSEDCL/TATA POWER/ADANI ELECTRICITY before execution.
- i) All distribution board shall be in Teak wood or 6 mm thick boiling water proof marine ply with laminated top, brass hinges, brass hooks etc. or as per IS approved MS powder coated distribution box shall be provided.
- j) The meter door shutter shall be as specified and directed by the MSEDCL/TATA POWER/ADANI ELECTRICITY & or as directed.

k) Open PVC conduits separately for each tenement are to be provided for common TV antenna and telephoned cables. These conduits will run through the staircase bay / light ventilation duct with junction boxes and each tenement shall be provided with suitable outlets in the living room at a proper place.

#### DESIGN NORMS FOR AREA DEVELOPMENT/SERVICES (ON-SITE)

##### **WITHIN building complex: (ON SITE DEVELOPMENT)**

All services within the building complex have been termed as “On-site development” or “Area Development”.

##### RECREATION GROUND (R. G. areas) in layout:

- „ Layout R. G. areas shall be provided as per provisions in DCR.
- „ The detailed landscape plan from Horticulturist shall be submitted.
- „ That the entire layout R. G. areas shall be duly developed as per DCR, with hardscape & softscape landscape in tune with Environmental Clearance (if MoEF NOC is required for project) and as per the directives of undersigned, before asking for O. C. to rehab building.
- „ The R.G. areas shall be maintained by the Developer for 6 months from the date of handing over of all rehabilitation tenements after issuing O. C.

##### WATER SUPPLY:

- a) Water supply network shall be design as per I.S. 779 & I.S. 2373-1968 latest version. Water meter chambers of size 900 x 450 mm. clear with C.I. cover with locking arrangement shall be provided.
- b) Acceptance testing – hydraulic test.
- c) The water supply line shall be connected to the peripheral main/municipal main with prior approval of the Competent Authority. Any additional cost for providing and fixing Specials, such as, Tees, Valves, Ferrules etc., shall be born by the Contractor /Developer.
- d) Separate connection of water supply and sewerage shall have to be made for each building and no service lines should pass through any other building.
- e) For water supply distribution network design following norms also be considered.
- i) Minimum pressure: As per CPHEEO
- ii) Minimum dia of peripheral main : 100 mm
- iii) Distribution losses : 28%
- iv) Transmission losses : 3%
- v) Minimum residual pressure : 3.5 mtrs.

Note: The capacity of OHT/UWT and water distribution network shall be as per the 'P Form' and remarks issued by Hydraulic Department of BMC. That the detailed calculations for the proposed water supply shall be submitted by the Lic. Plumber along with the sizes of pipes mentioned in 'P Form'.

#### SEWERAGE:

- a) The remarks from SP & PD, BMC shall be obtained and work shall be executed accordingly.
- b) RCC NP2 or stone ware Glazed pipes of minimum 150mm. diameter or as per design shall be provided.
- c) 900 mm x 450 mm size (internal) chamber with pre-cast S.F.R.C. cover with frame shall be provided. The maximum depth shall not exceed 1.2 m (bottom of channel to cover top). If the depth exceeds 1.2 m. circular conical manholes of 1.2 m. dia. shall be provided.
- d) Chamber shall be provided at every 20 m. distance and as per requirement of change of diameter, direction, level and connections.
- e) All sewerage pipes shall be supported on min. 75 mm. thick hard core and 75 mm. PCC M15 bedding with full encasing and the width of bedding shall be of outer dia of pipe plus 150 mm.
- f) Wherever the drainage pipe crosses the road, the pipe line shall be NP2 Class. The bedding shall be same as describe in (d) above.
- g) All man hole covers within building shall be of heavy duty pre-cast fiber reinforced with M.S. lapping with suitable pre-cast S.F.R.C. frame.
- h) Acceptance test: smoke and hydraulic test as per B.I.S.
- i) The sewerage line should be connected to the peripheral main /municipal main at suitable location with prior approval of the Competent Authority.

#### ELECTRIFICATION :

- 1) The underground system with armoured cable shall be used and the same should be suitably protected as per standard practice.
- 2) Cable ducts/Trenches shall be provided.
- 3) Separate Energy meter shall be provided for the area lighting / pump house, pump room, lift.
- 4) LED tube light fixtures to be provided for area lightning with general level of illumination on the ground of 7 LUX.
- 5) Cabling, other electrification works and other related works from meter box to sub-station will be carried out so as to satisfy BMC/Reliance/Tata POWER/MSEDL's requirement.
- 6) Cable (armored aluminum/As per CFO requirement) from mini pillar to individual building along pathways and suitably laid and protected as per standard practice.

- 7) Rules of Maharashtra State Electricity Board, Indian Electricity Acts / Rules and Rules of National Building Code/shall be followed in that order.
- 8) Aluminum wiring/As per CFO Requirement shall be permitted.
- 9) Acceptance Testing: Certificate of Electrical Inspector, Govt. of Maharashtra.
- 10) Area lighting in the building should be provided.
- 11) Numbering on the energy meters, D.P. Switch to be done.
- 12) Adequate earthing to be provided as per Indian Electricity Act.

#### STREET LIGHTING/BUILDING LIGHTING:

- a) Illumination level – 8 LUX on upto 6 M. wide road, 15 LUX on 10 & 15 M. wide road.
- b) Separate underground armored standard aluminum cables of XLPE to be used of 1.1 K.V. voltage grade.
- c) System is to be designed for 240 v/250 volts. Maximum permissible drop I voltage shall be 4 v.
- d) LED street light fittings of 70-90 Watts for Building Periphery lighting and Pole lights.
- e) It will be desirable to provide controlling arrangement with automatic ON/OFF to be made with timer and energy saving device.
- f) Supply of street light to be fed from controlling point by providing at the street light mini-pillar separate energy meter and protective devices.
- g) Street light G.I. octagonal poles of 7.5 m., height above ground level shall be provided on suitable foundation as approved.
- h) Work shall confirm to provisions of Indian Electricity Act./MSEDCL/TATA POWER/ADANI ELECTRICITY Rules.
- i) Load sanctions acceptance testing-Certificates of Electrical Inspector Maharashtra Sate, PWD, MSEDCL/TATA POWER/ADANI ELECTRICITY.

POWER SUPPLY: ELECTRIC SUB-STATION: Substation capacity will be provided for total power requirement for entire plot development of 33438 sq. mtrs. **in Phase I Tender. If required Additional Substation will need to be provided by Phase II bidder at no extra cost.**

(The scope of work of the developer will be as per the design approved by MSEDCL/TATA POWER/ADANI ELECTRICITY and will include other misc. items also.)

The following major items which are also required to be installed by the developer inside the built up sub-station.

#### POWER SUPPLY NETWORK :

The developer has to design, obtain approval of MSEDCL/TATA POWER/ADANI ELECTRICITY, execute and commission the entire power supply net work sub-station to individual building. The said works are to be executed on behalf of MSEDCL/TATA POWER/ADANI ELECTRICITY and the developer has to obtain their approval in principle first. In fact, MSEDCL/TATA POWER/ADANI ELECTRICITY's

approvals and concurrence in writing is required to be taken at every stage, right from beginning to commissioning stage.

Substation shall have compound wall with gate min. 4.25 m wide. One additional fire hydrant 100 mm dia shall be provided by developer on peripheral water supply net work near by the electric sub-station.

#### „SPECIFICATIONS:

The specifications of Materials/Workmanship shall be as per the contract agreement or MSEDCL/TATA POWER/ADANI ELECTRICITY's Specifications or relevant Bureau of Indian Standard (BIS), Standard Specifications of Maharashtra State Govt. and or Standard Specifications of National Building Organization and or the specification given by BMC in that order. Any other specifications if proposed to be used shall be specifically mentioned and got approved.

1 All material to be used in work shall confirm to relevant Indian standard specification and wherever available ISI marked material only will be used. All material procured shall be subjected to relevant tests specified in BIS at the frequency specified therein from any Govt. recognized laboratory such as National Test house IIT/Eng College/Polytechnic/MMRDA/PWD.

Contractor has to bound to carry out the entire work & comply all the points (M&E Work, Fire fighting work, Lift work, Civil work etc.) as specified in CFO NOC.

### **7.0 GUARANTEE FOR DURABILITY OF STRUCTURES FOR 50 YEARS**

**7.1** The successful bidder shall ensure that the structure of buildings constructed for the tenements are durable and shall last for the design period of the structure.

**7.2** The strength as well as durability shall be considered explicitly at design stage.

**7.3** The structure shall be designed for loads and stresses as mentioned in IS 456 - 2000 as per provision of OCR. The RCC designed of buildings shall be based on consideration of earthquake forces as per prevailing relevant IS and seismic coefficient shall be assumed for calculation of earthquake forces as prevailing relevant IS codes. The importance factor of the buildings shall be considered as 1.0.

**7.4** There is danger in case of collapse to the lives of the people as the proposed structures are meant for residential use. The Architect/L.S./Consultant/Contractor/Developer shall therefore be more cautious in design and execution of the work.

**7.5** For any type of foundation required for buildings in case, the soil and the sub-soil water at the site has high sulphate and chloride content. The Contractor /Developer shall have to take almost precautions to obtain a dense, concrete of low permeability.

**7.6** The Contractor/Developer shall observe methods of controlling while designing and constructing various mechanism of wear and deterioration of concrete so as to make the structure give satisfactory service and safety for design life of the structure.

**7.7** In observing the design controls, various codes of practice and design guides, which give recommendations on durability, shall be followed. The minimum cement content, water cement ratio, minimum grade of concrete, minimum cover to reinforcement for exposure conditions of environment in Mumbai city and suburbs and surrounding region shall be strictly followed.

**7.8** The mix design and concrete of various grades, shall be as per latest relevant IS specifications keeping in view both strength and durability.

**7.9** The concrete shall be of low permeability to be durable. For this purpose,

- The concrete shall be strong and dense with low water cement ratio.
- The concrete shall be compacted thoroughly.
- Sufficient hydration of cement shall be ensured through proper curing methods.
- The aggregate cement ration for given aggregate shall be sufficient to provide adequate workability with low water cement ratio so that concrete can be compacted Use of plasticizer for workability without Increase In water cement ratio, use of self compacting concrete where compaction Is difficult etc.

**7.1** The Contractor/Developer shall be responsible for non-deterioration of foundation, proposed by him for design life of the structure and shall ensure the controlling system against the mechanism of their deterioration keeping in view the high content of sulphate and chlorides in the soil and the sub-soil water.

**7.2** The Contractor/Developer shall be responsible for the durability of open foundation / pile foundation & RCC pile caps, plinth beams, Super structure, columns, beams cast-in-situ walls of water tanks, lift shaft and machine room etc.

**7.3** The Contractor/Developer shall be responsible for design life of the structure against the creep and long term excessive deflection of slabs if used in specific and other structural members (where deflection is the criteria for design) like slabs, beams, lintel etc.

**7.4** The Contractor/Developer shall ensure that the work is executed with adequate supervision- and that the execution of construction complies with the specifications. For this purpose, the

Contractor /Developer shall carryout various tests on material and finished items as per PWD norms/relevant IS specifications.

7.5 The curing affects primarily the concrete in the cover to the reinforcement and by definition this is the concrete that protects the reinforcement from corrosion by the ingress of aggressive agent. The Contractor /Developer shall therefore give very special attention to the curing of concrete. The period for curing mentioned in the IS code shall be strictly adhered to. The water used for curing shall be potable.

7.6 The Contractor/Developer shall give special attention to maintain the specified cover during execution as this is very important to transfer the forces in the reinforcement, to provide fire resistance to the steel and to provide an alkaline environment at the surface of the steel.

7.7 The Contractor/Developer shall ensure in the design & construction that there shall be no excessive deflection, creep & cracks in the structure beyond permissible limits.

#### 8.0 IMPORTANT NOTE:

This is a Contract wherein the Contractor /Developer is required to do the structural design and construct the buildings taking into account the requirements of the codes, professional practices, etc. It is not possible to describe in details each and every item of the construction. However, some of the specifications of some of the items have been incorporated in the tender to avoid discrepancies and to have an equal basis for comparison amongst the Contractor/Developers. Certain items may not have been described in this document; however, they form part of this contract as. The Contractor /Developer is supposed to construct the buildings as per Architect/L.S.'s drawings and complete the same in all respect so as to make the tenements habitable and safe. The drawings and design for all services viz. electrical, sewerage, water supply, plumbing & sanitary, rain water disposal etc. shall be submitted by the Contractor /Developer and got approved from BMC's concerned departments and competent authority.

#### 9.0 SUBMISSION REQUIREMENTS:

Two copies of reports/write up/design and five copies of drawings shall be given duly signed by the Structural / Services Engineer, Contractor /Developer and proof Consultants (PMC)

- i) Structural Design – Design criteria, method of analysis, method of design, schematic drawings, references if any, durability considerations, specification, brief, preliminary design & calculations, acceptance criteria, special reference to non-conventional concept, design be made, if the Contractor /Developer is submitting his own design.
- ii) System Designs for buildings & infrastructure works.



- iii) Design brief including specifications and acceptance criteria for ON-SITE Development, and preliminary design calculations.
- iv) Brief on construction method and deployment of resources.
- v) Quality Control/Assurance brief including proposed organizational set up testing facility and frequency of testing for different materials.
- vi) A site/layout plan showing the proposed development including services with north direction scale (1:1000).
- vii) Cluster plans showing ON-SITE development under the scope. Scale (1:500).
- viii) Details of tenements – Plans, Elevations, sections, type of foundations, founding level etc. Scale (1:100)
- ix) Soft copy of all above submission in a compact disk (CD).

7.0 The Contractor/Developer shall submit the following documents to Dy.C.E.(B.C.) E.S.. in required no. of copies duly signed by the Architect/L.S./designer and Contractor /Developer/PMC

- i. Detailed layout with dimension for execution – Scale (1:200)
- ii. Detailed working drawing for each type of building – Scale 1:50.
- iii. Structural, water supply, plumbing, electrification design brief and calculation sheets.
- iv. Working structural drawings including bar bending.
- v. Working drawing for ON-SITE development scale 1:50.
- vi. **Quality Assurance System:** This include detailed working programme with help of professional Consultant associated with the work and also ensure the quality of work.
- vii. **Quality Assurance Manual:** A quality Assurance Manual constituting a base document out fixing policy procedure, compliances, acceptance criteria and documentation etc.
- viii. MS project /PERT /CPM including material – labour, resources, planning and organizational chart.

The final copies shall be given only after obtaining approval of competent authority.

## **10.0SELECTION OF MATERIAL**

- 10.1 All materials brought on the site of work and meant to be used in the same, shall be the best of their respective kinds and to the approval of the Engineer. The Engineer or hisrepresentative will accept that the materials are really the best of their kinds, when it is proved be- yond doubt that no better materials of the particular kind in question are available in the market.
- 10.2 The contractor shall obtain the approval of the Engineer of samples of all materials to be used in the works and shall deposit these samples with him before placing an order for the materials with the suppliers. The materials brought on the works shall conform in every respect to their approved samples. Fresh samples shall be deposited with the Engineer when- ever the type or source of any material changes.

- 10.3 The contractor shall check each fresh consignment of materials as it is brought to the site of works to see that they conform in all respects to the Specifications of the samples approved by the Engineer, or both.
- 10.4 The Engineer will have the option to have any of the materials tested to find out whether they are in accordance with the Specifications and the Contractor will bear all expenses for such testing. All Bills, vouchers and test certificates, which in the opinion of the Engineer or his representative are necessary to convince him as to the quality of the materials or their suitability shall be produced for his inspection when required.
- 10.5 Any materials that have not been found to conform to the specifications will be rejected forthwith and shall be removed from the site by the contractor at his own cost within 24 hours.
- 10.6 The Engineer shall have power to cause the Contractors to purchase and use such materials from any particular source, as may in his opinion be necessary for the proper execution of the work.
- 10.7 Notwithstanding the source, the sand shall be washed using sand washing machine before use.
- 10.8 The items other than USOR 2023 shall be used in project by taking approval of competent authority.

## **11.0 SPECIFICATIONS FOR FABRICATION OF STRUCTURAL STEEL**

### **A) SCOPE**

- i. This specification covers the general requirements for supply where specified, fabrication and delivery at site of structural steel. The bill of quantities covers the specific requirements for the project. The two parts are complementary and are to be read together for a correct interpretation of the provisions of this specification.
- ii. This specification also covers design of all connections and substituted members, preparation of all shop fabrication drawings, inspection and shop painting of structures.

### **B). APPLICABLE CODES & SPECIFICATIONS**

The following specifications, standards and codes are made a part of this specification. All standards, specifications and codes of practices referred to herein shall be the latest editions including all applicable official amendments and revisions.

In case of discrepancy between this specification and other documents referred to herein, this specification shall govern.

#### **a) Materials**

- i. IS : 808                      Dimensions for Hot Rolled Steel sections

|                  |                                                                                                                                                                |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ii. IS : 801     | Dimensions for Cold Formed light gauge steel sections                                                                                                          |
| iii. IS : 814    | Covered Electrodes for Manual Metal Arc Welding of Carbon and Carbon Manganese Steel                                                                           |
| iv. IS : 1161    | Steel Tubes for structural purposes                                                                                                                            |
| v. IS : 1239     | Mild steel tubes, tubulars and other Wrought steel fittings<br>Part 1 - Mild steel tubes<br>Part 2 - Mild steel Tubulars and other wrought steel pipe fittings |
| vi. IS : 1363    | Hexagon Head Bolts, Screws and Nuts of product ( Parts 1 to 3) Grade C<br>(Size range M5 to M64)                                                               |
| vii. IS : 1367   | Technical Supply Conditions for Threaded Fasteners (All Parts)                                                                                                 |
| viii. IS : 1852  | Rolling and Cutting Tolerances for Hot Rolled Steel Products                                                                                                   |
| ix. IS : 1977    | Structural Steel (Ordinary Quality)                                                                                                                            |
| x. IS : 2062     | Steel for General Structural Purposes                                                                                                                          |
| xi. IS : 2074    | Ready Mixed Paint, Air drying, Red Oxide Zinc Chrome and Priming                                                                                               |
| xii. IS : 3502   | Steel Chequered Plate                                                                                                                                          |
| xiii. IS : 3757  | High Strength Structural Bolts                                                                                                                                 |
| xiv. IS : 5369   | General Requirements for Plain Washers and Lock Washers                                                                                                        |
| xv. IS : 5372    | Taper Washers for Channels                                                                                                                                     |
| xvi. IS : 5374   | Taper Washer for I Beams                                                                                                                                       |
| xvii. IS : 6610  | Heavy Washers for Steel Structures                                                                                                                             |
| xviii. IS : 8500 | Structural Steel-microalloyed (medium and high strength qualities)                                                                                             |

#### b) Codes Of Practice

|              |                                                                                                               |
|--------------|---------------------------------------------------------------------------------------------------------------|
| 1. IS : 800  | Code of Practice for General Construction in Steel                                                            |
| 2. IS : 801  | Code of practice for use of Cold formed light gauge steel structural members in general building construction |
| 3. IS : 803  | Code of practice for design, fabrication and erection of vertical mild steel cylindrical welded storage tanks |
| 4. IS : 806  | Code of practice for use of steel tubes in general building construction                                      |
| 5. IS : 816  | Code of Practice for use of Metal Arc Welding for General construction in Mild Steel                          |
| 6. IS : 822  | Code of Procedure for Inspection of Welds                                                                     |
| 7. IS : 1182 | Recommended Practice for Radiographic examination of Fusion - Welded Butt Joints in Steel Plates              |

- |                |                                                                                  |
|----------------|----------------------------------------------------------------------------------|
| 8. IS : 1200   | Method of Measurement in Building Civil Engineering Works                        |
| 9. IS : 1477   | Code of Practice for Painting of (Parts 1 & 2) Ferrous Metals in Buildings       |
| 10. IS : 2595  | Code of Practice for Radiographic Testing                                        |
| 11. IS : 3658  | Code of Practice for Liquid Penetrant Flaw Detection                             |
| 12. IS : 4000  | High strength bolts in Steel Structures - Code of Practice                       |
| 13. IS : 5334  | Code of Practice for Magnetic Particle Flaw Detection of Welds                   |
| 14. IS : 7215  | Tolerances for Fabrication of Steel Structures                                   |
| 15. IS : 9595  | Recommendations for Metal Arc Welding of Carbon and Carbon Manganese Steel       |
| 16. IS: 819 -  | Code of practice for Resistance Spot welding for light Assemblies in mild steel. |
| 17. IS: 823 -  | Procedure Code for metal arc welding of mild steel.                              |
| 18. IS: 824 -  | Code of practice for welding of structure subject to Dynamic loading.            |
| 19. IS: 1261 - | Code of practice for seam welding in mild steel.                                 |
| 20. IS: 1323 - | Code of practice for oxy-acetylene welding for structural work in mild steel     |

### **C) STEEL MATERIALS**

Steel materials shall comply with the specifications laid down under clause 2.0 and/or as called for on the design drawings.

All materials used shall be new, unused and free from defects.

Steel conforming to IS: 1977 or ASTM shall be used only for the following:

Fe310-0(St 32-0) : For general purposes such as door/ window frames, grills, steel gates, handrails, fenceposts, tee bars and other non-structural use.

Fe410-0(St 42-0) : For structures not subjected to dynamic loading other than wind loads such as: Platform roofs, foot over bridges, building, factory sheds etc.

Fe410-0(St 42-0) : grade steel shall not be used a) if welding is to be employed for fabrication.

b) if site is in severe earthquake zone. c) if plastic theory of design is used.

### **D) DRAWINGS PREPARED BY THE VENDOR/CONTRACTOR**

- i. The VENDOR/CONTRACTOR shall prepare all fabrication and erection drawings based on the structural design for the entire work. All the drawings for the entire work shall be prepared in metric units. The drawings shall preferably be of one standard size and the details shown there in shall be clear and legible.

- ii. The VENDOR/CONTRACTOR shall not commence detailing unless ENGINEER's design drawings are officially approved for preparation of shop drawings. The VENDOR/CONTRACTOR shall be responsible for the correctness of all fabrication drawings. Fabrication drawings shall be revised by the VENDOR/CONTRACTOR to reflect all revisions in design drawings as and when such revisions are made by the ENGINEER. Shop drawings will be for Civil, M&E, Lift and services including structural.
- iii. All fabrication drawings shall be submitted to the ENGINEER for approval.
- iv. No fabrication drawings will be accepted for ENGINEER's approval unless checked and approved by the VENDOR/CONTRACTOR's qualified structural engineer and accompanied by an erection plan showing the location of all pieces detailed. The VENDOR/CONTRACTOR shall ensure that connections are detailed to obtain ease in erection of structures and in making field connections.
- v. Fabrication shall be started by the VENDOR/ CONTRACTOR only after ENGINEER's approval of fabrication drawings. Approval by the ENGINEER of any of the drawings shall not relieve the VENDOR/CONTRACTOR from the responsibility for correctness of engineering & design of connections, workmanship, fit of parts, details, material, errors or omissions of any and all work shown thereon. The ENGINEER's approval shall constitute approval of the size of members, dimensions and general arrangement but shall not constitute approval of the connections between members and other details. The CONTRACTOR will solely be responsible for any sort of delay in fabrication/ erection work.
- vi. The drawings prepared by the VENDOR/CONTRACTOR and all subsequent revisions etc. shall be at the cost of the VENDOR/CONTRACTOR for which no separate payment will be made.

## **E) FABRICATION**

### ***i) General***

Fabrication activity shall be strictly started only after final approval of fabrication/erection drawing from owner and engineer. All workmanship and finish shall be of the best quality and shall conform to the best approved method of fabrication. All materials shall be finished straight and shall be machined/ground smooth true and square where so specified. All holes and edges shall be free of burrs. Shearing and chipping shall be neatly and accurately done and all portions of work exposed to view shall be neatly finished. Unless otherwise directed/ approved, reference may be made to relevant IS codes for providing standard fabrication tolerance. Material at the shops shall be kept clean and protected from weather.

## **ii) Connections**

- a) Shop/field connections shall be as per approved fabrication drawings.
- b) In case of bolted connections, taper washers or flat washers or spring washers shall be used with bolts as necessary. In case of high strength friction grip bolts, hardened washers be used under the nuts or the bolt heads whichever are turned to tighten the bolts. The length of the bolt shall be such that at least one thread of the bolt projects beyond the nut, except in case of high strength friction grip bolts where this projection shall be at least three times the pitch of the thread.
- c) In all cases where bearing is critical, the unthreaded portion of bolt shall bear on the members assembled. A washer of adequate thickness may be provided to exclude the threads from the bearing thickness, if a longer grip bolt has to be used for this purpose.
- d) All connections and splices shall be designed for full strength of members or loads as per design drawings. Column splices shall be designed for the full tensile strength of the minimum cross section at the splice.
- e) All members likely to collect rain water shall have drain holes provided.

## **iii) Straightening**

All materials shall be straight and, if necessary, before being worked shall be straightened and/or flattened by pressure and shall be free from twists. Heating or forging shall not be resorted to without the prior approval of the ENGINEER in writing. The straightening work shall be carried out as per IS: 1852 Class B

- iv) Cutting, punching, drilling, welding and fabrication tolerances shall be generally as per relevant IS codes.

## **v) Rolling And Forming**

Plates, channels, R.S.J. etc., for portal columns, girts, gantry girders, etc., shall be accurately laid off and rolled or formed to required profile/ shape as called for on the drawings. Adjacent sections shall be match-marked to facilitate accurate assembly, welding and erection in the field.

## **vi) High Strength Friction Grip Bolting**

- a) Inspection after tightening of bolts shall be carried out as stipulated in the appropriate standards depending upon the method of tightening and the type of bolt used.

## **vii) Welding**

- a) Welding procedure shall be submitted to ENGINEER for approval. Welding shall be entrusted to only qualified and experienced welders who shall be periodically tested and graded as per IS 817, IS: 7310 (Part 1) and IS: 7318 (Part 1).

- b) While fabricating plated beams and built up members, all shop splices in each component part shall be made before such component part is welded to other parts of the members. Wherever weld reinforcement interferes with proper fit-up between components to be assembled for welding, these welds shall be ground flush prior to assembly.
- c) Approval of the welding procedure by the ENGINEER shall not relieve the CONTRACTOR of his responsibility for correct and sound welding without undue distortion in the finished structure.
- d) No welding shall be done when the surface of the members is wet nor during periods of high wind.
- e) Each layer of a multiple layer weld except root and surfaces runs may be moderately peened with light blows from a blunt tool. Care shall be exercised to prevent scaling or flaking of weld and base metal from overpeening.
- f) No welding shall be done on base metal at a temperature below -5 Deg.C. Base metal shall be preheated to the temperature as per relevant IS codes.
- g) Electrodes other than low-hydrogen electrodes shall not be permitted for thicknesses of 32 mm and above.

#### h) Inspection of Welds

All welds shall be inspected for flaws by any of the methods described under clause 6 "Inspection".

The choice of the method adopted shall be determined by the ENGINEER.

- i) The correction of defective welds shall be carried out as directed by the ENGINEER without damaging the parent metal. When a crack in the weld is removed, magnetic particle inspection or any other equally positive means as prescribed by the ENGINEER shall be used to ensure that the whole of the crack and material upto 25 mm beyond each end of the crack has been removed. Cost of all such tests and operations incidental to correction shall be to the VENDOR /

CONTRACTOR's account.

#### **viii) Tolerances**

The dimensional and weight tolerances for rolled shapes shall be in accordance with IS:1852 for indigenous steel and equivalent applicable codes for imported steel. The tolerances for fabrication of structural steel shall be as per IS:7215.

#### **ix) End Milling**

Where compression joints are specified to be designed for bearing, the bearing surfaces shall be milled true and square to ensure proper bearing and alignment.

### **F) INSPECTION**

- i. The VENDOR/ CONTRACTOR shall give due notice to the ENGINEER in advance of the works getting ready for inspection. All rejected material shall be promptly removed from the shop and replaced with new material for the ENGINEER's approval / inspection. The fact that certain material has been accepted at the VENDOR / CONTRACTOR's shop shall not invalidate final rejection at site by the ENGINEER if it fails to conform to the requirements of these specifications, to be in proper condition or has fabrication inaccuracies which prevents proper assembly nor shall it invalidate any claim which the ENGINEER may make because of defective or unsatisfactory materials and/or workmanship.
- ii. No materials shall be painted or despatched to site without inspection and approval by the ENGINEER unless such inspection is waived in writing by the ENGINEER.
- iii. The VENDOR / CONTRACTOR shall provide all the testing and inspection services and facilities for shop work except where otherwise specified.

**IV.** For fabrication work carried out in the field the same standard of supervision and quality control shall be maintained as in shop fabricated work. Inspection and testing shall be conducted in a manner satisfactory to the ENGINEER.

**Inspection and tests on structural steel members shall be as set forth below :**

**a) Material Testing**

If mill test reports are not available for any steel materials the same shall be got tested by the VENDOR/CONTRACTOR to the ENGINEER's satisfaction to demonstrate conformity with the relevant specification.

**b) Tests on Welds**

**Magnetic Particle Test**

Where welds are examined by magnetic particle testing, such testing shall be carried out in accordance with relevant IS codes. If heat treatment is performed, the completed weld shall be examined after the heat treatment. All defects shall be repaired and retested. Magnetic particle tests shall be carried out using alternating current. Direct current may be used with the permission of the ENGINEER.

**Liquid Penetrant Inspection**

In the case of welds examined by Liquid Penetrant Inspection, such tests shall be carried out in accordance with relevant IS Code. All defects shown shall be repaired and rechecked.

**Radiographic Inspection**

All full strength butt welds shall be radiographed in accordance with the recommended practice for radiographic testing as per relevant IS code.



### **c) Dimensions, Workmanship & Cleanliness**

Members shall be inspected at all stages of fabrication and assembly to verify that dimensions, tolerances, alignment, surface finish and painting are in accordance with the requirements shown in the VENDOR/CONTRACTOR's approved fabrication drawings and the ENGINEER's drawings.

### **d) Test Failure**

In the event of failure of any member to satisfy inspection or test requirement, the CONTRACTOR shall notify the ENGINEER or his authorised representative. The VENDOR / CONTRACTOR must obtain permission from the ENGINEER before repair is undertaken. The quality control procedures to be followed to ensure satisfactory repair shall be subject to approval by the ENGINEER.

2 The ENGINEER has the right to specify additional testing as he deems necessary, and the additional cost of such testing shall be borne by the BMC, only in case of successful testing.

3 The VENDOR / CONTRACTOR shall maintain records of all inspection and testing which shall be made available to the ENGINEER or his authorised representative.

### **G) SHOP MATCHING**

For structures like portals etc. shop assembly is essential. For other steel work, such as purlins along with bracings may have to be shop assembled to ensure satisfactory fabrication, obtaining of adequate bearing areas etc. if so desired by the ENGINEER. All these shop/ field assemblies shall be carried out by VENDOR/ CONTRACTOR at no extra cost to the BMC.

### **H) DRILLING HOLES FOR OTHER WORKS**

As a part of this Contract, holes in members required for installing equipment or steel furnished by other manufacturers or other contractors shall be drilled by the VENDOR/ CONTRACTOR at no extra cost to the BMC. The information for such extra holes will be supplied by the ENGINEER.

### **I) MARKING OF MEMBERS**

- i. After checking and inspection, all members shall be marked for identification during erection. This mark shall correspond to distinguishing marks on approved erection drawings and shall be

- ii. legibly painted and stamped on it. The erection mark shall be stamped with a metal dye with figures at least 20 mm high and to such optimum depth as to be clearly visible. All erection marks shall be on the outer surface of all sections and near one end, but clear of bolt holes. The marking shall be so stamped that they are easily discernible when sorting out members. The stamped marking shall be circled boldly by a distinguishable paint to facilitate easy location.
- iii. Erection marks on like pieces shall be in identical locations. Members having lengths of 7.0 m or more shall have the erection mark at both ends.

## **J) ERRORS**

Any error in shop fabrication which prevents proper assembling and fitting up of parts in the field by moderate use of drift pins or moderate amount of reaming will be classified by the ENGINEER as defective workmanship. In case ENGINEER rejects such material or defective workmanship, the same shall be replaced by the materials and workmanship conforming to the ENGINEER's requirements by VENDOR / CONTRACTOR free of cost at site.

## **K) PAINTING**

All fabricated steel material, except those galvanised shall receive protective paint coating  
Galvanising of fabricated steel wherever specified,

## **12.0 SPECIFICATIONS FOR ERECTION OF STRUCTURAL STEEL**

### ***A) SCOPE***

This specification covers the general requirements for erection of structural steel. It covers the supply and delivery of all necessary materials, labour, scaffolding, tools, tackles, equipment and everything that is necessary for the satisfactory completion of the job on schedule. Tender Data Sheet covers the specific requirements for the project. The two parts are complementary and are to be read together for a correct interpretation of the provisions of this specification, where requirements of the two sections conflict, those of Tender Data Sheet shall govern.

### **B) APPLICABLE CODES & SPECIFICATIONS**

The following specifications, standards and codes are made a part of this specification. All standards, specifications and codes of practice referred to herein shall be the latest editions, including all applicable official amendments and revisions

In case of discrepancy between this specification and other documents referred to herein, this specification shall govern. In case of discrepancy between tender drawings and this specification, the tender drawings shall govern Structural

IS: 800      Code of Practice for General Construction in Steel

IS: 801              Code of Practice for Use of Cold Formed Light Gauge  
Steel Structural Members in General Building  
Construction

IS: 806              Code of Practice for Use of Steel Tubes in General  
Building Construction

IS: 7205              Safety Code for Erection of Structural Steel

Work IS:7215      Tolerances for Fabrication of Steel Structures

IS: 4000              High Strength Bolts in Steel Structure - Code of Practice

AISC                  Specifications for Design, Fabrication and  
Erection of Buildings

### **C) ERECTION SCHEME**

Each Bid shall be accompanied by a broad erection scheme with dates and estimated completion time for various parts of the work prepared by BIDDER after a thorough study of the Bid drawings and the site conditions. This erection scheme shall describe the methods proposed to be employed by BIDDER for transporting his equipments, tools, tackles, gas cylinders, electrodes and all that is necessary to site, unloading, transporting within the site, handling, assembling, hoisting and erecting of the structural steel components and the type, capacity and quantity of equipment that BIDDER proposes to bring to site for all these operations. The scheme shall also indicate the strength and trade-wise composition of the work force and supervisory personnel that will be deployed by BIDDER for the various operations.

### **D) ERECTION PROGRAMME**

i. Within two weeks of the acceptance of his Bid, the successful BIDDER shall submit, a detailed erection programme. This programme shall be accompanied by a layout plan identifying the areas

proposed for unloading, main storage, subsidiary storage, assembly and the transportation of equipment and fabricated material between the storage and work areas. The layout shall clearly indicate the points at which proposed erection begins, direction in which it is proposed to progress, the deployment of equipment, access route for cranes to reach work areas, etc. The locations and extent of site offices and stores shall also be indicated in detail on the above layout. Full details of the method of handling, transport, hoisting and erection including false work/staging, temporary bracing, guying, etc. shall be furnished by CONTRACTOR in this erection programme along with complete details of the quantity and capacity of the various items of erection equipment that will be used. A site organisation chart showing the number of supervisory personnel, and the number and composition of the various gangs shall also accompany the erection programme.

ii. Any modifications to the erection programme directed by ENGINEER for the reasons of inadequacy of the quantity and/or capacity of the erection equipment, erection personnel and supervisors, temporary bracing, guying etc., or safety of the erection methods, or stability of the erected portions of structures, or unsuitability of the erection sequence due to interference with the work of other agencies shall be incorporated by CONTRACTOR and the work shall be carried out in accordance with the revised programme. Approval by ENGINEER shall not relieve CONTRACTOR from the responsibility for the safe, sound, accurate and timely erection of structural steel work as required by ENGINEER/OWNER. CONTRACTOR shall also make no extra claims for bringing additional equipment to site for erection, if so directed by ENGINEER. CONTRACTOR shall be deemed to have visualised all erection problems while bidding for the work and no additional compensation shall be claimed on this account.

## **E) SITE OPERATIONS**

i. An experienced and qualified Superintendent shall be in full time charge of the job.

ii. CONTRACTOR shall complete all preliminary works at site well before the arrival of structural steel, such as establishment of a well equipped and adequately staffed site office, stores, unloading gantry, unloading and pre-assembly yard, labour quarters if any, electrical and water connections, electrical winches, derricks, cranes, compressors, all tools and tackles, rivet guns, welding sets, torque wrenches, spud wrenches, staging, etc. as well as experienced erection and supervisory personnel as part of this contract and any other work that may be necessary so as to start erection immediately after the arrival of the first batch of steel at site.

lii) CONTRACTOR shall furnish at his own expense, the necessary non-inflammable staging and hoisting materials or equipment required for the erection work and shall remove and take them away after completion of the job. CONTRACTOR shall also provide necessary passageways, fences, safety belts, helmets, lights and other fittings to the satisfaction of OWNER/ENGINEER and to meet the rules of local authorities and for protection to his men and materials. A licensed electrician shall be kept on the job for the entire duration of the work to maintain CONTRACTOR's electrical equipment and connections.

iv) CONTRACTOR must ensure suitable safety precautions in consultation with ENGINEER against all existing electrical installations which are live in the adjacent structures.

v) If a portion of the work of the project area cannot be made available to CONTRACTOR for his activities due to operations being carried out by other agencies, he shall suitably modify his sequence of operations so as to continue work without interruption. CONTRACTOR shall work in coordination with other agencies working on the project site and plan his work suitably so as not to hinder the progress of construction at site.

vi) Crane fitness shall be checked by competent person and fitness of Operating person shall be certified by ENGINEER at site.

## **F) ACCEPTANCE OF STEEL, ITS HANDLING & STORAGE**

- i. Point of delivery of fabricated steel shall be as specified in Tender Data Sheet.
- ii. CONTRACTOR shall carefully check the steel to be erected at the time of acceptance. Any fabrication defects observed should be brought to the notice of OWNER/ ENGINEER.
- iii. No dragging of steel shall be permitted. All shall be stored 300mm above ground on suitable packing to avoid damage. It shall be stored in the order required for erection, with erection marks visible. All storage areas shall be prepared and maintained by CONTRACTOR. Steel shall not be stored in the vicinity of areas where excavation or grading will be done and, if so stored temporarily, this shall be removed by CONTRACTOR well before such excavation and/or grading commences to a safe distance to avoid burial under debris.
- iv. Scratched or abraded steel shall be given a coat of primer specified under tender Data Sheet for protection after unloading and handling prior to erection. All milled and machined surfaces shall be properly protected from rust/corrosion by suitable coating and also from getting damaged.

## **G) ANCHOR BOLTS & FOUNDATIONS**

- i. CONTRACTOR shall carefully check the location and layout of anchor bolts embedded in foundations constructed, to ensure that the structures can be properly erected as shown on the drawings, any discrepancy in the anchor bolts/foundation shall be reported to ENGINEER.
- ii. Levelling of column bases to the required elevation may be done either by providing shims or three nuts on the upper threaded portion of the anchor bolt. All shim stock required for keeping the specified thickness of grout and in connection with erection of structures on foundations, crane brackets or at any other locations shall be of good M.S. plates and shall be supplied by CONTRACTOR at his cost.
- iii. A certain amount of cleaning of foundations and preparing the area is considered normal and shall be carried out by CONTRACTOR at not extra cost.
- iv. Where beams bear in pockets or on walls, bearing plates shall be set and levelled as part of the work.

## **H) ASSEMBLY & CONNECTIONS**

- i. Field connections may be effected by either riveting, bolting, welding or by use of high strength friction gripbolts as specified in Data Sheet-A, and as shown on the design and erection drawings.
- ii. All field connection work shall be carried out in accordance with enclosed Tender Data Sheet. All bolts, nuts, washers, rivets, electrodes required for field connections shall be supplied by Erector free of cost.
- iii. All assembling shall be carried on a level platform.
- iv. Drifts shall be used only for drawing the work to proper position and must not be used to such an extent as to damage the holes. Size of drifts larger than the nominal diameter of hole shall not be used. Any damaged holes or burrs must be rectified to the satisfaction of ENGINEER.
- v. Corrections of minor misfits and reasonable amount of reaming and cutting of excess stock from rivets shall be considered as a part of erection. Any error in the shop, which prevents proper fit on a moderate amount of reaming and slight chipping or cutting, shall be immediately reported to ENGINEER.

## **I) ERECTION**

- i. All structural steel shall be erected as shown on the drawings. Proper size steel cable slings, etc., shall be used for hoisting. Guys shall not be anchored to existing structures, foundations, etc. unless so permitted by ENGINEER in writing. Care shall be taken to see that ropes in use are always in good condition.

- ii. Steel columns in the basement, if any, are to be lowered and erected carefully with the help of a crane and/or derrick without damaging the basement walls steel or floor.
- iii. Structural steel frames shall be erected plumb and true. Frames shall be lifted at such points that they are not liable to buckle and deform. Trusses shall be lifted only at node points. In the case of trusses, roof girders, all of the purlins and wind bracing shall be placed simultaneously and the columns shall be erected truly plumb on screed bars over the pedestals. All steel columns and beams shall be checked for plumb and level individually before and after connections are made. Temporary bracings shall be introduced wherever necessary to take care of all loads to which the structure may be subjected, including erection equipment and the operation thereof. Such bracings shall be left in place as long as may be required for safety and stability.
- iv. As erection progresses, the work shall be securely bolted to take care of all dead load, wind, seismic and erection stresses.
- v. No riveting or welding or final bolting shall be done until the structure has been properly aligned and approved by ENGINEER. No cutting, heating or enlarging of the holes shall be carried out without the prior written approval of ENGINEER.
- vi. Test certificates as specified in Tender Data Sheet shall be furnished by CONTRACTOR.

## **J) INSPECTION**

ENGINEER/OWNER or their authorised representatives shall have free access to all parts of the job during erection and all erection shall be subjected to their approval. In case of faulty erection, all dismantling and re-erection required will be at CONTRACTOR's cost. No paint shall be applied to rivet heads or field welds or bolts until these have been approved by ENGINEER.

## **k) TOLERANCES**

Tolerances mentioned below shall be achieved after the entire structure or part thereof is in line, level and plumb. The tolerances specified below do not apply to steel structures where the deviations from true position are intimately linked with and directly influence technological process. In such cases, the tolerances on erected steel structures shall be as per recommendations of process technologists/suppliers which will be indicated in the drawings.

## **Columns**

- i) Deviation of column axes at foundation top level with respect to true axes :
  - (a) In longitudinal direction :  $\pm 5 \text{ mm}$
  - (b) In lateral direction :  $\pm 5 \text{ mm}$

- ii) Deviation in the level of bearing  
surface of columns at foundation  
top with respect to true level :  $\pm 5$  mm
- iii) Out of plumbness (verticality) of column axis from true vertical axis, as measured at column top :
- (a) For columns upto and including 15 metres in height :  $\pm 1/1000$  of column height in mm or  $\pm 15$  mm whichever is less
- (b) For columns exceeding 15 metres in height :  $\pm 1/1000$  of column height in mm or  $\pm 20$  mm whichever is less
- iv) Deviation in the level of bearing  
surface of columns at foundation  
top with respect to true level :  $\pm 5$  mm
- v) Out of plumbness (verticality) of column axis from true vertical axis, as measured at column top :
- (a) For columns upto and including 15 metres in height :  $\pm 1/1000$  of column height in mm or  $\pm 15$  mm whichever is less
- (b) For columns exceeding 15 metres in height :  $\pm 1/1000$  of column height in mm or  $\pm 20$  mm whichever is less
- vi) Deviation in straightness in longitudinal and transverse planes of column at any point along the height :  $\pm 1/1000$  of column height in mm or  $\pm 10$  mm whichever is less
- vii) Difference in erected position of adjacent pairs of columns along length or across width of building prior to connecting trusses/ beams with respect to true distance :  $\pm 10$  mm
- viii) Deviation in any bearing or seating level with respect to true level :  $\pm 5$  mm
- ix) Deviation in differences in bearing levels of a member on adjacent pair of columns both across and along the building :  $\pm 10$  mm
- Trusses And Beams



- i) Shift at the centre of span of top chord the vertical plane bottom chord :  $\pm 1/250$  of height of truss in member with respect to mm or  $\pm 15$  mm whichever passing through the centre of is less
- ii) Lateral shift of top chord of truss at the centre of span from the vertical plane :  $\pm 1/1500$  of span of truss in mm or  $\pm 15$  mm whichever is less  
passing through the centre of supports of the truss
- iii) Lateral shift in location of truss from its true vertical position :  $\pm 10$  mm
- iv) Lateral shift in location of purlin true position :  $\pm 5$  mm
- v) Deviation in difference of bearing levels of trusses or beams from the true difference  $\pm 6$ mm : i)  $\pm 20$  mm for trusses  
ii) For beams  
Depth < 1800mm :  
Depth > 1800mm :  $\pm 10$  mm
- vi) Deviation in sag in chords and diagonals of truss between node points :  $1/1500$  of length in mm or 10mm whichever is smaller
- 11.2.7 Deviation in sweep of trusses, beams etc. in the horizontal plane :  $1/1000$  of span in mm in the subject to a maximum of 10 mm

### Crane Girders & Rails

- i) Shift in the centre line of crane rail with respect to centre line of web of crane girder :  $\pm 5$  mm
- ii) Shift in plan of alignment of crane rail with respect to true axis of crane rail at any point :  $\pm 5$  mm
- iii) Difference in alignment of crane rail in plan measured between any two points 2 metres apart along rail :  $\pm 1$  mm
- iv) Deviation in crane track with respect to time gauge

- (a) For track gauges upto and including 15 metres :  $\pm 5 \text{ mm}$
- (b) For track gauges more than 15 metres :  $\pm [5 + 0.25 (S-15)]$   
where S in metres is true gauge
- v) Deviation in the crane rail level at any point from true level :  $1/1200$  of the gauge distance or  $\pm 10 \text{ mm}$  which ever is less
- vi) Difference in the crane rail actual levels 2 mm between any two points 2 metres apart along the rail length :  $\pm$
- vii) Difference in levels between crane track rails at  
(a) Supports of crane girders :  $\pm 15 \text{ mm}$   
(b) Mid span of crane girders :  $\pm 20 \text{ mm}$
- viii) **Relative shift of crane rail surfaces at a grinding of joint in plan and elevation transition** : **2 mm subject to surfaces for smooth**
- Relative shift in the location of crane stops (end buffers) along the crane tracks :  $1/1000$  of track gauge S in mm subject to maximum with track gauge S in mm of 20 mm

## **L ) Painting**

Cleaning with shot blasting SA 2.5 before applying primer, Two shop coats of epoxy red oxide zinc phosphate primer of 30 microns each, One shop coat and one site coat of epoxy CR enamel of 30 microns each and touch-up with spray painting after erection.

**SECTION 13**  
**FRAUD AND CORRUPT PR ACTICES**

## **FRAUD AND CORRUPT PRACTICES**

- The Applicants and their respective officers, employees, agents and advisers shall observe the highest standard of ethics during the Bidding Process. Notwithstanding anything to the contrary contained herein, the Authority may reject an Application without being liable in any manner whatsoever to the Applicant if it determines that the Applicant has, directly or indirectly or through an agent, engaged in corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice in the Bidding Process.
- Without prejudice to the rights of the Authority under relevant Clause hereinabove, if an Applicant is found by the Authority to have directly or indirectly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice during the Bidding Process, such Applicant shall not be eligible to participate in any tender or RFQ issued by the Authority during a period of 2 (two) years from the date such Applicant is found by the Authority to have directly or indirectly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice, as the case may be.
- For the purposes of this Clause, the following terms shall have the meaning hereinafter respectively assigned to them:

**A. “corrupt practice” means**

the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the actions of any person connected with the Bidding Process (for avoidance of doubt, offering of employment to, or employing, or engaging in any manner whatsoever, directly or indirectly, any official of the Authority who is or has been associated in any manner, directly or indirectly, with the Bidding Process or the LOA or has dealt with matters concerning the Concession Agreement or arising there from, before or after the execution thereof, at any time prior to the expiry of one year from the date such official resigns or retires from or otherwise ceases to be in the service of the Authority, shall be deemed to constitute influencing the actions of a person connected with the Bidding Process); or

save and except as permitted under the relevant sub clause, engaging in any manner whatsoever, whether during the Bidding Process or after the issue of the LOA or after the execution of the Concession Agreement, as the case may be, any person in respect of any matter relating to the Project or the LOA or the Concession Agreement, who at any time has been or is a legal, financial or technical adviser of the Authority in relation to any matter concerning the Project;

**A. “fraudulent practice” means** a misrepresentation or omission of facts or suppression of facts or disclosure of incomplete facts, in order to influence the Bidding Process ;

**A. “coercive practice” means** impairing or harming or threatening to impair or harm, directly or indirectly, any person or property to influence any person's participation or action in the Bidding Process;

**A. “undesirable practice” means** (i) establishing contact with any person connected with or employed or engaged by the Authority with the objective of canvassing, lobbying or in any manner influencing or attempting to influence the Bidding Process; or (ii) having a Conflict of Interest; and

**A. “Restrictive practice” means** forming a cartel or arriving at any understanding or arrangement among Applicants with the objective of restricting or manipulating a full and fair competition in the Bidding Process.

**A. If the Employer/Financier determines that the Contractor has engaged in corrupt, fraudulent, collusive, coercive or obstructive practices, in competing for or in executing the Contract, then the Employer may, after giving 14 days’ notice to the Contractor, terminate the**

Contractor's employment under the Contract and expel him from the Site, and the provisions of relevant Clause shall apply as if such expulsion had been made.

- A.** Should any employee of the Contractor be determined to have engaged in corrupt, fraudulent, collusive, coercive, or obstructive practice during the execution of the Works, then that employee shall be removed in accordance with relevant Clause.

For the purposes of this Sub-Clause:

- i. “corrupt practice” is the offering, giving, receiving to soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;
- ii. “another party” refers to a public official acting in relation to the procurement process or contract execution. In this context, “public official” includes Financer staff and employees of other organizations taking or reviewing procurement decisions.
- iii. “fraudulent practice” is any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;
- iv. “collusive practice” is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;
- v. “coercive practice” is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;
- vi. “obstructive practice” is deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede the Financier investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or
- vii. acts intended to materially impede the exercise of the Financer’s inspection and audit rights provided .
- viii. “party” refers to a public official; the terms “benefit” and “obligation” relate to the procurement process or contract execution; and the “act or omission” is intended to influence the procurement process or contract execution.
- ix. ”parties” refers to participants in the procurement process (including public officials) attempting to establish bid prices at artificial, noncompetitive levels.
- x. a “party” refers to a participant in the procurement process or contract execution.



**SECTION 14**  
**PRE BID MEETING**

### **PREBID MEETING**

Pre-bid meeting of the interested parties shall be convened at the designated date, time and place. A maximum of three representatives of each Applicant shall be allowed to participate on production of authority letter from the Applicant.

During the course of Pre-bid meeting, the Applicants will be free to seek clarifications and make suggestions for consideration of the Authority. The Authority shall Endeavour to provide clarifications and such further information as it may, in its sole discretion, consider appropriate for facilitating a fair, transparent and competitive Bidding Process.

|                             |                                                                                                                                        |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Pre-Bid Meeting venue       | Office of the<br>AMC<br>Conference Hall, Second Floor, Municipal Head<br>office Annexe Building, Mahapalika Marg,<br>Mumbai – 400 001. |
| Pre-Bid Meeting Date & Time | from 15:00 Hrs                                                                                                                         |

**Note:** The bidder shall submit their suggestions / objections/ queries, minimum three days before the pre-bid meeting, i.e. upto 5:00pm by email only to [ee02dyce.bces@mcgm.gov.in](mailto:ee02dyce.bces@mcgm.gov.in)



**SECTION –15**  
**LIST OF APPROVED BANKS**

### **LIST OF APPROVED BANKS**

- 1.The following Banks with their branches in Greater Mumbai and in suburbs and extended suburbs up to Virar and Kalyan have been approved only for the purpose of accepting Banker's guarantee from 1997-98 onwards until further instructions.
- 2.The Bankers Guarantee issued by branches of approved Banks beyond Kalyan and Virar can be accepted only if the said Banker's Guarantee is countersigned by the Manager of a branch of the same Bank, within the Mumbai Limit categorically endorsing thereon that said bankers Guarantee is binding on the endorsing Branch of the bank within Mumbai limits and is liable to be on forced against the said branch of the Bank in case of default by the contractor/supplier furnishing the bankers Guarantee.
- 3.Note: IDBI Bank BG will not be applicable as per the circular no. CA/FBK/303 dt. 17/03/18.

#### **List of approved Banks:-**

|          |                                                |
|----------|------------------------------------------------|
| <b>A</b> | <b>S.B.I and its subsidiary Banks</b>          |
| 1        | State Bank Of India.                           |
| 2        | <del>State Bank Of Bikaner &amp; Jaipur.</del> |
| 3        | State Bank Of Hyderabad.                       |
| 4        | State Bank Of Mysore.                          |
| 5        | State Bank Of Patiyala.                        |
| 6        | State Bank Of Saurashtra.                      |
| 7        | State Bank Of Travankore.                      |
| <b>B</b> | <b>Nationalized Banks</b>                      |
| 8        | Allahabad Bank.                                |
| 9        | Andhra Bank.                                   |
| 10       | Bank Of Baroda.                                |
| 11       | Bank Of India.                                 |
| 12       | Bank Of Maharashtra.                           |
| 13       | Central Bank Of India.                         |
| 14       | Dena Bank.                                     |
| 15       | Indian Bank.                                   |
| 16       | Indian Overseas Bank.                          |
| 17       | Oriental Bank Of Commerce.                     |
| 18       | Punjab National Bank.                          |
| 19       | Punjab & Sindh Bank.                           |
| 20       | Syndicate Bank.                                |
| 21       | Union Bank Of India.                           |
| 22       | United Bank Of India.                          |
| 23       | UCO Bank.                                      |
| 24       | Vijaya Bank.                                   |
| 24A      | Corporation Bank.                              |

|          |                                         |
|----------|-----------------------------------------|
| <b>C</b> | <b>Scheduled Commercial Banks</b>       |
| 25       | Bank Of Madura Ltd.                     |
| 26       | Bank Of Rajasthan Ltd.                  |
| 27       | Banaras State Bank Ltd.                 |
| 28       | Bharat Overseas Bank Ltd                |
| 29       | Catholic Syrian Bank Ltd.               |
| 30       | City Union Bank Ltd.                    |
| 31       | Development Credit Bank.                |
| 32       | Dhanalakshmi Bank Ltd.                  |
| 33       | Federal Bank Ltd.                       |
| 34       | Indsind Bank Ltd.                       |
| 35       | I.C.I.C.I Banking Corporation Ltd.      |
| 36       | Global Trust Bank Ltd.                  |
| 37       | Jammu & Kashmir Bank Ltd.               |
| 38       | Karnataka Bank Ltd.                     |
| 39       | KarurVysya Bank Ltd.                    |
| 40       | Laxmi Vilas Bank Ltd.                   |
| 41       | Nedugundi Bank Ltd.                     |
| 42       | Ratnakar Bank Ltd.                      |
| 43       | Sangli Bank Ltd.                        |
| 44       | South Indian Bank Ltd.                  |
| 45       | S.B.I Corporation &Int Bank Ltd.        |
| 46       | Tamilnadu Mercantile Bank Ltd.          |
| 47       | United Western Bank Ltd.                |
| 48       | Vysya Bank Ltd.                         |
| <b>D</b> | <b>Schedule Urban Co-op Banks</b>       |
| 49       | Abhyudaya Co-op Bank Ltd.               |
| 50       | Bassein Catholic Co-op Bank Ltd.        |
| 51       | Bharat Co-op Bank Ltd.                  |
| 52       | Bombay Mercantile Co-op Bank Ltd.       |
| 53       | Cosmos Co-op Bank Ltd.                  |
| 54       | Greater Mumbai Co-op Bank Ltd.          |
| 55       | JanataSahakari Bank Ltd.                |
| 56       | Mumbai District Central Co-op Bank Ltd. |
| 57       | Maharashtra State Co-op Bank Ltd.       |
| 58       | New India Co-op Bank Ltd.               |
| 59       | North Canara G.S.B. Co-op Bank Ltd.     |

|          |                                         |
|----------|-----------------------------------------|
| 60       | Rupee Co-op Bank Ltd.                   |
| 61       | Sangli Urban Co-op Bank Ltd.            |
| 62       | Saraswat Co-op Bank Ltd.                |
| 63       | ShamraoVithal Co-op Bank Ltd.           |
| 64       | Mahanagar Co-op Bank Ltd.               |
| 65       | Citizen Bank Ltd.                       |
| 66       | Yes Bank Ltd.                           |
| <b>E</b> | <b>Foreign Banks</b>                    |
| 67       | ABM AMRO (N.Y.) Bank.                   |
| 68       | American Express Bank Ltd.              |
| 69       | ANZ Grindlays Bank Ltd.                 |
| 70       | Bank Of America N.T. & S.A.             |
| 71       | Bank Of Tokyo Ltd.                      |
| 72       | Bankindosuez.                           |
| 73       | BanqueNationale de Paris.               |
| 74       | Barclays bank.                          |
| 75       | City Bank N.A.                          |
| 76       | Hongkong& Shanghai banking Corporation. |
| 77       | Mitsui Taiyokbe Bank Ltd.               |
| 78       | Standard Chartered Bank.                |
| 79       | Cho Hung Bank.                          |

**SECTION –16**  
**APPENDIX**

## FORM OF TENDER

To,

The Brihanmumbai Municipal Corporation

Sir,

I/ We have read and examined the following documents relating to the construction of

i. Notice inviting tender.

ii. Directions to tenderers (General and special)

iii. General condition of contract for Civil Works of the Brihanmumbai Municipal Corporation Mumbai as amended up to date.

#### iv. Relevant drawings

## v.Specifications.

## vi. Special directions

vii. Annexure A and B.

viii. Bill of Quantities and Rates.

1A. I/We

(full name in capital letters, starting with surname), the Proprietor/ Managing Partner/ Managing Director/ Holder of the Business, for the establishment / firm / registered company, named herein below, do hereby offer to

.....

.....

.....

•

.....

.....

...

.....

Referred to in the specifications and schedule to the accompanying form of contract of the rates entered in the schedule of rates sent herewith and signed by me/ us” (strike out the portions which are not applicable).

1B. I/We do hereby state and declare that I/We, whose names are given herein below in details with the addresses, have not filled in this tender under any other name or under the name of any other establishment /firm or otherwise, nor are we in any way related or concerned with the establishment /firm or any other person, who have filled in the tender for the aforesaid work.”

2. I/We hereby tender for the execution of the works referred to in the aforesaid documents, upon the terms and conditions, contained or referred to therein and in accordance with the specifications designs, drawings and other relevant details in all respects.

\* At the rates entered in the aforesaid Bill of Quantities and Rates.

3. According to your requirements for payment of Earnest Money (EMD) amounting to **Rs. 4,12,64,500/- (Rs. Four crore Twelve lakhs sixty-four thousand and Five hundred only)**

I/We have deposited the amount through online payment gateways with the C.E. of the Corporation not to bear interest

4. I/We hereby request you not to enter into a contract with any other person/s for the execution of the works until notice of non/acceptance of this tender has first been communicated to me/us, and in consideration of yours agreeing to refrain from so doing I/we agree not to withdraw the offer constituted by this tender before the date of communication to me/us of such notice of non/acceptance, which date shall be not later than ten days from the date of the decision of the Standing Committee or Education Committee of the Corporation, as maybe required under the Mumbai Municipal Corporation Act, not to accept this tender.(Subject to condition 5 below).
5. I/We also agree to keep this tender open for acceptance for a period of 180 days from the date fixed for opening the same and not to make any modifications in its terms and conditions which are not acceptable to the Corporation.
6. I/We agree that the Corporation shall, without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely, if.
  - a. I/We fail to keep the tender open as aforesaid.
  - b. I/We fail to execute the formal contract or make the contract deposit when called upon to do so.
  - c. I/we do not commence the work on or before the date specified by the Engineer in his work order.
7. I/We hereby further agree to pay all the charges of whatsoever nature in connection with the preparation, stamping and execution of the said contract.
8. I/We further agree that, I/we shall register ourselves as ‘Employer’ with the Bombay Iron and Steel Labour Board’ and fulfil all the obligatory provisions of Maharashtra Mathadi, Hamal and other Manual workers (Regulation of Employment and Welfare) Act 1969 and the Bombay Iron and Steel unprotected workers Scheme 1970.
9. “I/We..... have failed in the accompanying tender with full knowledge of liabilities and, therefore, we will not raise any objection or dispute in any manner relating to any action, including forfeiture of deposit and blacklisting, for giving any information, which is found to be incorrect and against the instructions and directions given in this tender.
10. “I/We further agree and undertake that in the event it is revealed subsequently after the allotment of work/contract to me/us, that any information given by me/us in this tender is false or incorrect, I/We shall compensate the Brihanmumbai Municipal Corporation Mumbai for any such losses or inconvenience caused to the Corporation in any manner and will not resist any claim for such compensation on any ground whatsoever. I/we agree and undertake that I/we shall not claim in such case any amount by way of damages or compensation for cancellation of the contract given to me/us or any work assigned to me/us or is withdrawn by the Corporation,”

Address  
faithfully,

Yours

.....  
.....

Digital Signature of the Tenderer or the

Firm

1.....

2.....

3.....

4.....

5.....

Full Name and private residential address of all the partners constituting the Firm

A/c No.

.....  
....

1. ....

Name of Bank

2. ....

.....  
...

3. ....

Name of Branch

4. ....

.....  
...

5. ....

Vender

No.

.....



## AGREEMENT FORM

## Tender / Quotation

dated .....20...

Standing Committee/Education Committee Resolution No. ....

# CONTRACT FOR THE WORKS

.....

.....

.....

.....

This agreement made this day of .....  
 .....

Two ..... thousand  
 ..... Between  
 .....  
 .....  
 .....

inhabitants of Mumbai, carrying on business at.....

in Bombay under the style and name of Messrs .....  
 ..... (Hereinafter called “the contractor of the one part and Shri .....  
 .....  
 .....

the Director(E.S.&P.) (hereinafter called “the commissioner” in which expression are included unless the inclusion is inconsistent with the context, or meaning thereof, his successor or successors for the time being holding the office of Director (E,S.& P)of the second part and the Brihanmumbai Municipal Corporation Mumbai (hereinafter called “the Corporation”) of the third part, WHEREAS the contractor has tendered for the construction, completion and maintenance of the works described above and his tender has been accepted by the Commissioner (with the approval of the Standing Committee/Education Committee of the Corporation NOW THIS

THIS AGREEMENT WITNESSETH as follows:-

- 1) In this agreement words and expressions shall have the same meanings as are respectively assigned to them in the General Conditions of Contract for works hereinafter referred to:-
- 2) The following documents shall be deemed to form and be read and constructed as a part of this agreement viz.
  - a) The letter of Acceptance
  - b) The Bid:
  - c) Addendum to Bid; if any
  - d) Tender Document
  - e) The Bill of Quantities:
  - f) The Specification:

g) Detailed Engineering Drawings

h) Standard General Conditions of Contracts (GCC)

i) All correspondence documents between bidder and BMC

3) In consideration of the payments to be made by the Commissioner to the contractor as hereinafter mentioned the contractor hereby covenants with the Commissioner to construct, complete and maintain the works in conformity in all respects with the provision of the contract.

4) The Commissioner hereby covenants to pay to the Contractor in consideration of the construction, completion and maintenance of the works the contract sum, at times and in the manner prescribed by the contract.

IN WITNESS WHERE OF the parties hereto have caused their respective common seals to be herein to affixed (or have hereunto set their respective hands and seals) the day and year above written.

Signed, Sealed and delivered by the contractors

|                    |                                     |
|--------------------|-------------------------------------|
| _____              | _____                               |
| _____              | _____                               |
| In the presence of | Trading under the name and style of |
| _____              | _____                               |
| _____              | _____                               |

Full Name

Address

Contractors

Signed by the Director (ES&P) in the presence of

Ex..... City/ WS/ ES

\_\_\_\_\_  
Director (ES&P)

The Common seal of the Brihanmumbai Municipal Corporation Mumbai was hereunto affixed on the ..... 20 in the presence of two members of the Standing Committee.

1.

1.

2.

2.

And in the presence of the Municipal Secretary

Municipal Secretary

## ANNEXURE " A "

**Name of work: Lumpsum tender (Turnkey) for construction of Residential Tenements (having size of 37.80 sqm & 55.55 sqm each) on plot known as '600 tenement plot' bearing CTS No. 1(pt) & CTS No. 3 (pt) (Sub plot D having area 8746.90 sqm) at Village Deonar, M/E Ward.**

|           |                                    |  |                                                                                             |
|-----------|------------------------------------|--|---------------------------------------------------------------------------------------------|
| <b>1.</b> | <b>The Engineer for this work:</b> |  | AMC (P)<br>City Engineer, City<br>Dy. City Engineer (B.C.) E.S.<br>Ex. Engineer (B.C.) E.S. |
| <b>2.</b> | <b>Estimated cost of Tender:</b>   |  | Rs. 412,64,46,864/- (Excluding GST)                                                         |

|           |                                                |                                                                                              |
|-----------|------------------------------------------------|----------------------------------------------------------------------------------------------|
| <b>3.</b> | Earnest Money (EMD) (1% of the Estimated cost) | Rs. 4,12,64,500/-<br>(Rs. Four crore Twelve lakhs Sixty-Four thousand and Five Hundred only) |
|           |                                                |                                                                                              |
| <b>4.</b> | Time Period                                    |                                                                                              |
| 1.        | Contract as a whole Period completion          | 6 months (for approvals and transfer of ownership of land) + 24 Months (Incl. of Monsoon.)   |

## **Annexure- B**

(On Rs. 500/- Stamp Paper)

### **PRE-CONTRACT INTEGRITY PACT**

The Bidder commits himself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of his bid or during any pre-contract or post-contract stage in order to secure the contract or in furtherance to secure it and in particular commits himself to the following:-

1. The Bidder will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BMC, connected directly or indirectly with the bidding process, or to any person, organization or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the Contract.
2. The Bidder further undertakes that he has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BMC or otherwise in procuring the Contract or forbearing to do or having done any act in relation to the obtaining or execution of the Contract or any other Contract with the Government for showing or forbearing to show favour or disfavour to any person in relation to the Contract or any other Contract with the Government.
3. The Bidder will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract.
4. The Bidder will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.
5. The Bidder, either while presenting the bid or during pre-contract negotiations or before signing the contract, shall disclose any payments he has made, is committed to or intends to make to officials of the BMC or their family members, agents, brokers or any other intermediaries in connection with the contract and the details of services agreed upon for such payments.
6. The Bidder shall not use improperly, for purposes of competition or personal gain, or pass on to others, any information provided by the BMC as part of the business relationship, regarding plans, technical proposals and business details, including information contained in any electronic data carrier. The Bidder also undertakes to exercise due and adequate care lest any such information is divulged.
7. The Bidder commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.
8. The Bidder shall not instigate or cause to instigate any third person to commit any of the actions mentioned above.
9. The Bidder and their respective officers, employees, agents and advisers shall observe the highest standard of ethics during the Bidding Process. Notwithstanding anything to the contrary contained herein, the Authority may reject an Application without being liable in any manner whatsoever to the Applicant if it determines that the Applicant has, directly or indirectly or through an agent, engaged in corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice in the Bidding Process

For the purposes of this Clause 9, the following terms shall have the meaning herein after respectively assigned to them:

1. “fraudulent practice” means a misrepresentation or omission of facts or suppression of facts or disclosure of incomplete facts, in order to influence the Bidding Process ;
1. “coercive practice” means impairing or harming or threatening to impair or harm, directly or indirectly, any person or property to influence any persons participation or action in the Bidding Process;
1. “undesirable practice” means (i) establishing contact with any person connected with or employed or engaged by the Authority with the objective of canvassing, lobbying or in any manner influencing or attempting to influence the Bidding Process; or (ii) having a Conflict of Interest; and
1. “restrictive practice” means forming a cartel or arriving at any understanding or arrangement among Applicants with the objective of restricting or manipulating a full and fair competition in the Bidding Process.

Signature of Tenderer/Bidder

**Annexure- C**

(On Rs. 500/- Stamp Paper)

**DECLARATION CUM INDEMNITY BOND**

I, \_\_\_\_\_ of \_\_\_\_\_, do hereby declared and undertake as under.

1. I declare that I have submitted certificates as required to Executive engineer (Monitoring) at the time of registration of my firm/company \_\_\_\_\_ and there is no change in the contents of the certificates that are submitted at the time of registration.
2. I declare that I \_\_\_\_\_ in capacity as Manager/Director/Partners/Proprietors of \_\_\_\_\_ has not been charged with any prohibitory and /or penal action such as banning (for specific time or permanent)/de-registration or any other action under the law by any Government and/or Semi Government and/or Government undertaking.
3. I declare that I have perused and examined the tender document including addendum, condition of contract, specifications, drawings, bill of quantity etc. forming part of tender and accordingly, I submit my offer to execute the work as per tender documents at the rates quoted by me in capacity as of \_\_\_\_\_.
4. I further declare that if I am allotted the work and I failed to carry out the allotted work in accordance with the terms and conditions and within the time prescribed and specified, BMC is entitled to carry out the work allotted to me by any other means at my risk and cost, at any stage of the contract.
5. I also declare that I will not claim any charge/damages/compensation for non availability of site for the contract work at any time.
6. I declare that I will positively make the arrangements of the required equipment on the day of commencement or with respect to the progress of the work in phases, as per the instructions of site in charge

Signature of Tenderer/Bidder

**BANKERS GURANTEE IN LIEU OF CONTRACT DEPOSIT**

THIS INDENTURE made this \_\_\_\_\_ day of \_\_\_\_\_ BETWEEN

THE \_\_\_\_\_ BANK incorporated under the English/Indian Companies Acts and carrying on business in Mumbai (hereinafter referred to as 'the bank' which expression shall be deemed to include its successors and assigns) of the first part \_\_\_\_\_ inhabitants carrying on business at \_\_\_\_\_ in Mumbai under the style and name of Messer's \_\_\_\_\_ (hereinafter referred to as 'the consultant') of the second part Shri. \_\_\_\_\_

THE MUNICIPAL COMMISSIONER FOR GREATER MUMBAI (hereinafter referred to as 'the commissioner' which expression shall be deemed, also to include his successor or successors for the time being in the said office of Municipal Commissioner ) of the third part and THE BRIHANMUMBAI MUNICIPAL CORPORATION MUMBAI (hereinafter referred to as 'the Corporation') of the fourth part WHEREAS the consultants have submitted to the Commissioner tender for the execution of the work of " \_\_\_\_\_ and the terms of such tender /contract require that the consultants shall deposit with the Commissioner as/contract deposit/ earnest money and /or the security a sum of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) AND WHEREAS if and when any such tender is accepted by the Commissioner, the contract to be entered into in furtherance thereof by the consultants will provide that such deposit shall remain with and be appropriated by the Commissioner towards the Security -deposit to be taken under the contract and be redeemable by the consultants, if they shall duly and faithfully carry out the terms and provisions of such contract and shall duly satisfy all claims properly chargeable against them there under AND WHEREAS the consultants are constituents of the Bank and in order to facilitate the keeping of the accounts of the consultants, the Bank with the consent and concurrence of the consultants has requested the Commissioner to accept the undertaking of the Bank hereinafter contained, in place of the contractors depositing with the Commissioner the said sum as earnest money and /or security as aforesaid AND WHEREAS accordingly the Commissioner has agreed to accept such undertaking NOW THIS AGREEMENT WITNESSES that in consideration of the premises, the Bank at the request of the consultants ( hereby testified ) UNDERTAKES WITH the commissioner to pay to the commissioner upon demand in writing , whenever required by him , from time to time , so to do , a sum not exceeding in the whole Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) under the terms of the said tender and /or the contract .The B.G. Is valid upto \_\_\_\_\_ "Notwithstanding anything what has been stated above, our liability under the above guarantee is restricted to Rs. \_\_\_\_\_ only and guarantee shall remain in force upto \_\_\_\_\_ unless the demand or claim under this guarantee is made on us in writing on or before \_\_\_\_\_ all your right under the above guarantee shall be forfeited and we shall be released from all liabilities under the guarantee thereafter"

IN WITNESS WHEREOF

WITNESS(1) \_\_\_\_\_

Name and \_\_\_\_\_

address \_\_\_\_\_

WITNESS(2) \_\_\_\_\_

Name and \_\_\_\_\_ the duly constituted Attorney Manager

address \_\_\_\_\_

the Bank and the said Messer's \_\_\_\_\_

\_\_\_\_\_(Name of the Bank)

WITNESS(1)\_\_\_\_\_

Name and \_\_\_\_\_

address \_\_\_\_\_

WITNESS(2)\_\_\_\_\_

Name and \_\_\_\_\_

For Messer's \_\_\_\_\_

address \_\_\_\_\_

have here into set their respective hands the day and year first above written.

**The amount shall be inserted by the Guarantor, representing the Contract Deposit in Indian Rupees.**



**The Successful bidder/ contractor shall be paid in following stages consistent with actual work done.**

| Sr. No. | Activity/phase of recommendation of Project work                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | %                                            | Sub- Total |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------|
| 1       | a) On submission of detailed methodology<br>b) Submission of Structural design, architectural design, project schedule and technical DPR with project execution manual with staffing and equipment details in close coordination with MA/PMC<br>c) On acceptance detailed methodology, structural design, architectural design, project schedule and technical DPR with project execution manual with staffing and equipment details in close coordination with MA/PMC by concerned competent BMC authority; subject to vetting of the design. | 1%<br><br>2%<br><br>2%                       | 5 %        |
| 2       | a) Obtaining all approvals/NOCs/Remarks of all statutory authorities of BMC/ state govt./ central govt/MOEF etc.<br>b) On transfer of ownership of land                                                                                                                                                                                                                                                                                                                                                                                        | 1%<br>1%                                     | 2%         |
| 3       | On Completion of Foundation up to based level of P1 with UG tanks.<br>a) On Completion of 20% Foundation<br>b) On Completion of 40% Foundation<br>c) On Completion of 60% Foundation<br>d) On Completion of 80% Foundation<br>e) On Completion of 100% Foundation                                                                                                                                                                                                                                                                              | 2.0%<br>2.0%<br>2.0%<br>2.0%<br>2.0%         | 10%        |
| 4       | a) On Completion of P1 roof<br>b) On Completion of P2 roof<br>c) On Completion of P3 roof<br>d) On Completion of P4 roof<br>e) On Completion of P5 roof<br>f) On Completion of stilt roof                                                                                                                                                                                                                                                                                                                                                      | 1.5%<br>1.5%<br>1.5%<br>1.5%<br>1.5%<br>1.5% | 9%         |
| 5,6,7,8 | As below                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                              |            |
|         | a) On Completion of 5% of super structure slab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1.3 %                                        |            |
|         | b) On Completion of 10% of super structure slab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1.3%                                         |            |
|         | c) On Completion of 15% of super structure slab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1.3%                                         |            |
|         | d) On Completion of 20% of super structure slab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1.3%                                         |            |

|  |                                                 |      |  |
|--|-------------------------------------------------|------|--|
|  | e) On Completion of 25% of super structure slab | 1.3% |  |
|  | f) On Completion of 30% of super structure slab | 1.3% |  |
|  | g) On Completion of 35% of super structure slab | 1.3% |  |

|  |                                                  |      |     |
|--|--------------------------------------------------|------|-----|
|  | h) On Completion of 40% of super structure slab  | 1.3% | 26% |
|  | i) On Completion of 45% of super structure slab  | 1.3% |     |
|  | j) On Completion of 50% of super structure slab  | 1.3% |     |
|  | k) On Completion of 55% of super structure slab  | 1.3% |     |
|  | l) On Completion of 60% of super structure slab  | 1.3% |     |
|  | m) On Completion of 65% of super structure slab  | 1.3% |     |
|  | n) On Completion of 70% of super structure slab  | 1.3% |     |
|  | o) On Completion of 75% of super structure slab  | 1.3% |     |
|  | p) On Completion of 80% of super structure slab  | 1.3% |     |
|  | q) On Completion of 85% of super structure slab  | 1.3% |     |
|  | r) On Completion of 90% of super structure slab  | 1.3% |     |
|  | s) On Completion of 95% of super structure slab  | 1.3% |     |
|  | t) On Completion of 100% of super structure slab | 1.3% |     |

|   |                                                                                          |       |     |
|---|------------------------------------------------------------------------------------------|-------|-----|
| 9 |                                                                                          |       |     |
|   | a) On Completion of 10% Masonry Work, frames, jambs including concealed services if any  | 1.00% | 10% |
|   | b) On Completion of 20% Masonry Work, frames, jambs including concealed services if any  | 1.00% |     |
|   | c) On Completion of 30% Masonry Work, frames, jambs including concealed services if any  | 1.00% |     |
|   | d) On Completion of 40% Masonry Work, frames, jambs including concealed services if any  | 1.00% |     |
|   | e) On Completion of 50% Masonry Work, frames, jambs including concealed services if any  | 1.00% |     |
|   | f) On Completion of 60% Masonry Work, frames, jambs including concealed services if any  | 1.00% |     |
|   | g) On Completion of 70% Masonry Work, frames, jambs including concealed services if any  | 1.00% |     |
|   | h) On Completion of 80% Masonry Work, frames, jambs including concealed services if any  | 1.00% |     |
|   | i) On Completion of 90% Masonry Work, frames, jambs including concealed services if any  | 1.00% |     |
|   | j) On Completion of 100% Masonry Work, frames, jambs including concealed services if any | 1.00% |     |

|    |                                           |    |    |
|----|-------------------------------------------|----|----|
| 10 |                                           |    |    |
|    | a) On Completion of 35% internal Plaster  | 1% | 3% |
|    | b) On Completion of 70% internal Plaster  | 1% |    |
|    | c) On Completion of 100% internal Plaster | 1% |    |
|    |                                           |    |    |

|    |                                                      |       |    |
|----|------------------------------------------------------|-------|----|
| 11 | a) On Completion of 35% internal Plumbing            | 1%    | 3% |
|    | b) On Completion of 70% internal Plumbing            | 1%    |    |
|    | c) On Completion of 100% internal Plumbing           | 1%    |    |
|    |                                                      |       |    |
| 12 | On Completion of internal Painting                   |       |    |
|    | a) On completion of 25% internal Painting            | 0.50% | 2% |
|    | b) On completion of 50% internal Painting            | 0.50% |    |
|    | c) On completion of 75% internal Painting            | 0.50% |    |
|    | d) On completion of 100% internal Painting           | 0.50% |    |
| 13 |                                                      |       |    |
|    | a) On Completion of 25% external Plaster             | 0.75% | 3% |
|    | b) On Completion of 50% external Plaster             | 0.75% |    |
|    | c) On Completion of 75% external Plaster             | 0.75% |    |
|    | d) On Completion of 100% external Plaster            | 0.75% |    |
|    |                                                      |       |    |
| 14 | On Completion of external Plumbing                   |       |    |
|    | a) On completion of 50% external plumbing            | 0.50% | 1% |
|    | b) On completion of 50% external plumbing            | 0.50% |    |
|    |                                                      |       |    |
| 15 | On Completion of external Painting                   |       |    |
|    | a) On completion of 25% external Painting            | 0.25% | 1% |
|    | b) On completion of 50% external Painting            | 0.25% |    |
|    | c) On completion of 75% external Painting            | 0.25% |    |
|    | d) On completion of 100% external Painting           | 0.25% |    |
| 16 |                                                      |       |    |
|    | a) On Completion of 12.5% Flooring , skirting & dado | 0.75% | 6% |
|    | b) On Completion of 25.0% Flooring , skirting & dado | 0.75% |    |
|    | c) On Completion of 37.5% Flooring , skirting & dado | 0.75% |    |
|    | d) On Completion of 50% Flooring , skirting & dado   | 0.75% |    |
|    | e) On Completion of 62.5% Flooring , skirting & dado | 0.75% |    |

|    |                                                                        |       |      |
|----|------------------------------------------------------------------------|-------|------|
|    | f) On Completion of 75% Flooring , skirting & dado                     | 0.75% |      |
|    | g) On Completion of 87.5% Flooring , skirting & dado                   | 0.75% |      |
|    | h) On Completion of 100% Flooring , skirting & dado                    | 0.75% |      |
| 17 |                                                                        |       |      |
|    | a) 25% completion of work total quantum of Electrical Works            | 1.1%  | 4.4% |
|    | b) 50% completion of work total quantum of Electrical Works            | 1.1%  |      |
|    | c) 75% completion of work total quantum of Electrical Works            | 1.1%  |      |
|    | d) 100% completion of work total quantum of Electrical Works           | 1.1%  |      |
|    |                                                                        |       |      |
| 18 | On Completion of :-Doors/Windows/Grills                                |       | 2%   |
|    | a) 50% of Doors                                                        | 0.40% |      |
|    | b) 100% of Doors                                                       | 0.40% |      |
|    | c) 50% of Windows                                                      | 0.40% |      |
|    | d) 100% of Windows                                                     | 0.40% |      |
|    | e) 50% of Grills                                                       | 0.20% |      |
|    | f) 100% of Grills                                                      | 0.20% |      |
|    |                                                                        |       |      |
| 19 | On Completion of lifts                                                 |       | 2%   |
|    | a)Successful installation of lift car.                                 | 0.5%  |      |
|    | b)Installation of switch gear cables                                   | 0.5%  |      |
|    | c) Total installation and trial run of lift.                           | 0.5%  |      |
|    | d) Commissioning of lift with receipt of lift PWD license.             | 0.5%  |      |
|    |                                                                        |       |      |
| 20 | On Completion of All O.H.Ts                                            |       | 2%   |
|    | a) On completion of 25% of OHT works                                   | 0.50% |      |
|    | b) On completion of 50% of OHT works                                   | 0.50% |      |
|    | c) On completion of 75% of OHT works                                   | 0.50% |      |
|    | d) On completion of 100% of OHT works                                  | 0.50% |      |
|    |                                                                        |       |      |
| 21 | On Completion of Electrical meters                                     |       | 1%   |
|    | a) On completion of 25% of Electrical meters                           | 0.25% |      |
|    | b) On completion of 50% of Electrical meters                           | 0.25% |      |
|    | c) On completion of 75% of Electrical meters                           | 0.25% |      |
|    | d) On completion of 100% of Electrical meters                          | 0.25% |      |
|    |                                                                        |       |      |
| 22 | On Completion of Access road &internal pathways with streetlights etc. |       |      |

|    |                                                                                                                                                                                                                                                                                                                                         |                                  |      |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------|
|    | a) On Completion of Access road & internal pathways with drain etc.                                                                                                                                                                                                                                                                     | 0.25%                            | 1%   |
|    | b) On installation of streetlights.                                                                                                                                                                                                                                                                                                     | 0.25%                            |      |
|    | c) On Completion of all streetlights and finishing items.                                                                                                                                                                                                                                                                               | 0.5%                             |      |
|    |                                                                                                                                                                                                                                                                                                                                         |                                  |      |
| 23 | On Completion of Drainage network with S.T.P(if applicable), S.W.D , Water mains and nala training                                                                                                                                                                                                                                      |                                  |      |
|    | a) On Completion of internal Drainage network with S.T.P.                                                                                                                                                                                                                                                                               | 1%                               | 2%   |
|    | b) On Completion of Water mains and nala training and S.W.D.                                                                                                                                                                                                                                                                            | 1%                               |      |
|    |                                                                                                                                                                                                                                                                                                                                         |                                  |      |
| 24 | On Completion of Compound wall with main gate R.G area etc.                                                                                                                                                                                                                                                                             |                                  | 1%   |
|    | a) On Completion of Compound wall with main gate.                                                                                                                                                                                                                                                                                       | 0.5%                             |      |
|    | b) Other area , R.G and landscape area                                                                                                                                                                                                                                                                                                  | 0.5%                             |      |
| 25 | On completion of Fire Fighting Works<br>25% of firefighting works<br>50% of firefighting works<br>75% of firefighting works<br>100% of firefighting works                                                                                                                                                                               | 0.40%<br>0.40%<br>0.40%<br>0.40% | 1.6% |
| 26 | Occupation Certificate and handing over of project                                                                                                                                                                                                                                                                                      |                                  | 2%   |
|    | a) Occupation Certificate                                                                                                                                                                                                                                                                                                               | 0.5%                             |      |
|    | b) Handing over of project with snag list compliance and submission of all documents for maintenance under defects liability period with handover manual, as built drawings for architectural, structural ,services and other relevant drawings and as per the requirements of competent authority/user Department in sets as required. | 1.5%                             |      |
|    | Total                                                                                                                                                                                                                                                                                                                                   |                                  | 100% |

Note:- 1) The payment schedule is an item-wise schedule and not necessarily sequential

2) Cost breakup is considering overall completion and not necessarily reflecting cost of individual activity.

**Note :Above is weightage allotted to the activities and the proportionate payment can be made subject to the actual work done and subject to applicable terms and condition.**

**Note:**

- Above is weightage allotted to the activities and the proportionate payment may be made subject to the actual work done and subject to applicable terms and condition.
- Podium for car parking to be paid at 65% rate quoted by the bidder.
- Refuge area and stilt to be paid at 65% rate quoted by the bidder.
- Terrace to be paid at 25% rate quote by the bidder.
- Cost for Plot/Land development of open area and site infrastructure such as landscaping, open parking, internal roads, driveways, open to sky amenities, boundary wall, gate to be paid as per open to sky area at 20% rate quoted by the bidder.
- Supply of material which is fabricated/manufactured at factory for the components such as columns, beams, slabs, partition walls, etc brought/delivered on site then 60% payment will be made and remaining 40% payment will be made after erection in position.

## **Annexture-M**

### **Undertaking for Sub Contractor by Prime Bidder (On Rs.500/- stamp Paper)**

I \_\_\_\_\_ of \_\_\_\_\_ do hereby declared that and undertake as under.

4. I, to the best of my knowledge will carry out the entire M&E work by myself or else will appoint sub contractor fulfilling the eligibility criteria of respective work mentioned in tender.
5. If for any unforeseen reason, there is a change in nominated sub contractor for specialized work i.e. M&E works, fire-fighting works, HVAC work, Lift works and any other specialized works etc., I will pay applicable charges for change in nominated sub-contractor as stated in special conditions to bidders.
6. I am aware that if I fail to abide M.O.U. with nominated sub-contractor then, we (Prime bidder and nominated sub contractor) will not be allowed to jointly participate in the further tenders of Dy CE (B.C.) E.S. Department, for next two years from the date of change of sub contractor. The same has been affirmed by nominated sub contractor.

Signature and stamp of  
Tenderer/Bidder

# PROFORMAS



**PROFORMAS:**

**PROFORMA- I**

The list of similar works as stated in para 'A' of Post qualification during last Seven years–

| Name of the project | Name of the Employer | Cost of the project | Date of issue of Work Order | Stipulated Date of Completion | Actual Date of Completion | Total BUA | Total No. of tenements | No of stories | Methodology and technology followed |
|---------------------|----------------------|---------------------|-----------------------------|-------------------------------|---------------------------|-----------|------------------------|---------------|-------------------------------------|
| 1                   | 2                    | 3                   | 4                           | 5                             | 6                         | 7         | 8                      | 9             | 10                                  |

**NOTE:**

- i. Scanned Attested copies of completion/performance certificates from the Engineer-in- Charge for each work should be annexed in the support of information furnished in the above proforma.
- i. Works shall be grouped financial year-wise.

**PROFORMA- II**

Yearly turnover of Civil Engineering Construction Works during the last five years.

| PROFORMA- II |                |                                            |                               |                        |          |
|--------------|----------------|--------------------------------------------|-------------------------------|------------------------|----------|
| Sr.No.       | Financial year | Annual Turnover of Civil Engineering Works | Updated value to current year | Average of last 5years | Page No. |
| 1            |                |                                            |                               |                        |          |
| 2            |                |                                            |                               |                        |          |
| 3            |                |                                            |                               |                        |          |
| 4            |                |                                            |                               |                        |          |
| 5            |                |                                            |                               |                        |          |
| Total        |                |                                            |                               |                        |          |

**NOTE:** The above figures shall tally with the audited balance sheets uploaded by the tenderers duly certified by Chartered Accountant.

**PROFORMA- III**

Atleast similar work, as stated in para 'A' of Post qualification during last seven years,

| Name of the project | Name of the Employer | Cost of the project | Date of issue of Work Order | Stipulated Date of Completion | Actual Date of Completion | Actual cost of work done | Remarks explaining reasons for delay, if any | Total BUA | Total No. of tenements | No of stories | Methodology and technology followed |
|---------------------|----------------------|---------------------|-----------------------------|-------------------------------|---------------------------|--------------------------|----------------------------------------------|-----------|------------------------|---------------|-------------------------------------|
| 1                   | 2                    | 3                   | 4                           | 5                             | 6                         | 7                        | 8                                            | 9         | 10                     | 11            | 12                                  |

**Note:** Scanned Attested copies of completion/performance certificates from the Engineer-in-charge for each work should be annexed in support of information furnished in the above proforma.

**PERSONNEL:****PROFORMA- IV**

| Sr. No. | Post                     | Name                            | Qualification | Work Experience |                  |
|---------|--------------------------|---------------------------------|---------------|-----------------|------------------|
|         |                          | (Prime Candidate/<br>Alternate) |               | No. of Years    | Name of Projects |
| 1       | Project Manager          |                                 |               |                 |                  |
| 2       | Quality Control Engineer |                                 |               |                 |                  |
| 3       | Site Engineer            |                                 |               |                 |                  |
| 4       | Site Supervisor          |                                 |               |                 |                  |

**NOTE:** Scanned Attested copies of qualification certificates and details of work experience shall be submitted /uploaded.

**MACHINERY: (for special work only)****PROFORMA- V/A**

| Sr.No. | Equipment | Number | Owned/Leased/Assured access |
|--------|-----------|--------|-----------------------------|
| 1      | 2         | 3      | 4                           |

**PROFORMA- V/B**

| Sr.No. | Equipment | Number | Owned |
|--------|-----------|--------|-------|
| 1      | 2         | 3      | 4     |

**Note:** The tenderer(s) shall furnish/upload the requisite Scanned Attested documents of ownership/leased of machineries. The undertaking from the suppliers will not be accepted.

**PROFORMA - VI / A**

Details of Existing Commitments and on-going works –

**PROFORMA - VI / A**

| Description of Work | Place | Contract No. & Date | Name & Addresses of employer | Value of Contract in Rs. | Scheduled date of completion | Value of work remaining to be completed | Anticipated Date of completion |
|---------------------|-------|---------------------|------------------------------|--------------------------|------------------------------|-----------------------------------------|--------------------------------|
| 1                   | 2     | 3                   | 4                            | 5                        | 6                            | 7                                       | 8                              |

**Note:** Scanned Attested copies of completion/performance certificates from the Engineer-in-Charge for each work should be annexed in the support of information furnished in the above proforma.

**PROFORMA - VI / B**

Details of works for which bids are already uploaded –

**PROFORMA - VI / B**

| Description of work | Place | Name & Addresses of employee | Value of Contract in Rs. | Time Period | Date on which decision is expected | Remarks |
|---------------------|-------|------------------------------|--------------------------|-------------|------------------------------------|---------|
| 1                   | 2     | 3                            | 4                        | 5           | 6                                  | 7       |

**Note:** Scanned Attested copies of certificates from the Engineer-in-charge for each work shall be annexed.

**PROFORMA-VII- Litigation History**

| Other Party (ies) | Employer | Cause of Dispute | Amount involved. | Remarks showing Present Status. |
|-------------------|----------|------------------|------------------|---------------------------------|
| 1                 | 2        | 3                | 4                | 5                               |

**Annexture - E**

**Irrevocable Undertaking**

IShri/Smt.....aged,.....years Indian  
Inhabitant. Proprietor/Partner/Director of M/s.....resident at  
..... do hereby give Irrevocable undertaking as  
under;

1. I say & undertake that as specified in section 171 of CGST Act, 2017, any reduction in rate of tax on supply of goods or services or the benefit of input tax credit shall be mandatorily passed on to BMC by way of commensurate reduction in prices.
2. I further say and undertake that I understand that in case the same is not passed on and is discovered at any later stage, BMC shall be at liberty to initiate legal action against me for its recovery including, but not limited to, an appeal to the Screening Committee of the GST Counsel.
3. I say that above said irrevocable undertaking is binding upon me/my partners/company/other Directors of the company and also upon my / our legal heirs, assignee, Executor, administrator etc.
4. If I fail to compliance with the provisions of the GST Act, I shall be liable for penalty/punishment or both as per the provisions of GST Act.

Whatever has been stated here in above is true & correct to my/our won knowledge & belief.

Solemnly affirmed at

**DEPONENT**

This day of

**BEFORE ME**

Interpreted Explained and Identified by me

**Form ELI - 1: Bidder's Information Sheet**

| <b>Bidder's Information</b>                                                                                  |  |
|--------------------------------------------------------------------------------------------------------------|--|
| <b>Bidder's legal name</b>                                                                                   |  |
| <b>Bidder's country of constitution</b>                                                                      |  |
| <b>Bidder's year of constitution</b>                                                                         |  |
| <b>Bidder's legal address in country of constitution</b>                                                     |  |
| <b>Bidder's authorized representative</b><br>(name, address, telephone numbers, fax numbers, e-mail address) |  |

**The bidder shall attach copies of the following original documents with the form:**

1. In case of single entity, articles of incorporation or constitution of the legal entity named above, .

**Form FIN-2: Total contractual payment received in the last 3 Financial years and current year**

Each Bidder must fill in this form separately:

**NAME OF BIDDER:**

| <b>Contractual payment received for the Last 3 Years and current financial year</b>       |                        |                      |                                          |
|-------------------------------------------------------------------------------------------|------------------------|----------------------|------------------------------------------|
| <b>Year</b>                                                                               | <b>Amount Currency</b> | <b>Exchange Rate</b> | <b>Indian National Rupees Equivalent</b> |
|                                                                                           |                        |                      |                                          |
|                                                                                           |                        |                      |                                          |
|                                                                                           |                        |                      |                                          |
|                                                                                           |                        |                      |                                          |
|                                                                                           |                        |                      |                                          |
| <b>TOTAL contractual payment received in the last 3 Financial years and current year:</b> |                        |                      |                                          |

1. The information supplied shall be substantiated by data in the audited balance sheets for the relevant years and uploaded as attachments to form in respect of the bidder or all partners constituting the bidder.
2. Contents of this form should be certified by a Chartered Accountant/Auditor.
3. In the event that the audited accounts for the latest Financial Year are not available, the Bidder shall furnish Attested Certificates from Employers/Clients about contractual payment received for the work done..

### Form FIN-3: Current Contract Commitments / Works in Progress

Bidders should provide information on their current commitments on all contract that have been awarded, or which a letter of intent or acceptance has been received, or for contracts approaching completion, but for which an unqualified, full completion certificate has yet to be issued.

#### Contract Commitments

| S<br>N | Des-<br>crip-<br>tion of<br>work | Contract<br>No. &<br>date | Name &<br>address of<br>Employer,<br>Tel./Fax/<br>Email | Value<br>of Con-<br>tract in<br>INR | Stipulated<br>Period of<br>completion | Value of<br>Balance<br>work | Anti-cipa-<br>ted date of<br>Comple-<br>tion |
|--------|----------------------------------|---------------------------|---------------------------------------------------------|-------------------------------------|---------------------------------------|-----------------------------|----------------------------------------------|
|        |                                  |                           |                                                         |                                     |                                       |                             |                                              |
|        |                                  |                           |                                                         |                                     |                                       |                             |                                              |
|        |                                  |                           |                                                         |                                     |                                       |                             |                                              |
|        |                                  |                           |                                                         |                                     |                                       |                             |                                              |
| Total  |                                  |                           |                                                         |                                     |                                       |                             |                                              |

**Note: Enclose Certificate(s) from Engineer(s) Incharge (not below the rank of Executive Engineer) for Value of outstanding work. In case it is not feasible to furnish certificate from all the units the bidder should record the following certificate on Fin 3:**

*"Certified that current commitments on all the contracts that have been awarded or for which a letter of intent or acceptance has been received or for the works in progress or the works approaching completion, value of outstanding work has been indicated in the above table correctly. It is further certified that if later on the employer discovers that information provided in the table is incorrect then the employer will treat our bid invalid and it will be liable for rejection"*

**Form EXP-2(a): Contract of single similar work**

Fill up one form per contract

|                                                                                  |                          |                                |  |
|----------------------------------------------------------------------------------|--------------------------|--------------------------------|--|
|                                                                                  |                          |                                |  |
| <b>Contract No.</b>                                                              |                          | <b>Contract Identification</b> |  |
| <b>Award Date</b>                                                                |                          | <b>Completion Date</b>         |  |
| <b>Total Contract Amount</b>                                                     | INR                      |                                |  |
| <b>Role in Contract</b>                                                          |                          |                                |  |
| <b>If subcontractor, specify participation in total contract amount</b>          | <b>Percent of Total:</b> | <b>Amount: INR</b>             |  |
| <b>Employer's Name, Current Address and Current Telephone/Fax Number, E-mail</b> |                          |                                |  |
|                                                                                  |                          |                                |  |
|                                                                                  |                          |                                |  |

**The bidder must upload relevant document in support of above**



## BRIHANMUMBAI MUNICIPAL CORPORATION

Sub:-

Schedule - I

**Technical Data Sheet of Passenger lift 13 passengers.**

(Detail to be submitted and approved by concerned Department before execution.)

| Sr. No. | Description                      | Particulars |
|---------|----------------------------------|-------------|
| 1       | Make                             |             |
| 2       | Type                             |             |
| 3       | Capacity                         |             |
| 4       | Speed                            |             |
| 5       | Type of drive                    |             |
| 6       | Travel                           |             |
| 7       | Serving floors                   |             |
| 8       | Lift pit depth                   |             |
| 9       | Lift Car details                 |             |
| 10      | Car gate details                 |             |
| 11      | Landing gate details             |             |
| 12      | Method of operation<br>& control |             |

## Schedule - II

Technical details to be furnished by tenderer

(Detail to be submitted and approved by concerned Department before execution.)

| Sr.  | Items                  | Passenger lift |
|------|------------------------|----------------|
|      |                        |                |
| 1    | Type and Make of Lift  |                |
| 2    | Capacity of Lift       |                |
| 3    | Lift Speed (MPS)       |                |
| 4    | Type of drive for Lift |                |
| 5    | Hoist Motor Details    |                |
| a.   | Type and Make          |                |
| b.   | HP, RPM and operating  |                |
|      | Voltage                |                |
| c.   | Insulation class       |                |
| d.   | Duty (Starts per hour) |                |
| 6    | Lift car size          |                |
| 7    | Car Gate Opening       |                |
| 8    | Landing Gate Opening   |                |
| 9    | Method of Operation    |                |
| 10   | <u>Ropes :</u>         |                |
| A    | Main suspension Ropes  |                |
| i.   | Size                   |                |
| ii.  | Construction           |                |
| iii. | No. of ropes           |                |
| iv.  | Roping                 |                |
| v.   | Factor of safety       | 254            |

|      |                    |  |
|------|--------------------|--|
| B    | Ropes for Governor |  |
| i.   | Size               |  |
| ii.  | Construction       |  |
| iii. | No. ropes          |  |

**Seal**

**Trading under the name and style of**

**Signature of Tenderer**  
**Schedule - III**

1) H.P. Calculation of Hoist Motor : (For Stretcher lift 884 Kgs, 5 Podiums, Stilt + 31 Floors)

2) Roping : (Explanation/Calculation for consideration of roping for the lift.)

**Seal**

**Trading under the name and  
style of**

**Signature of Tenderer**

#### Schedule - IV

##### Deviation from specifications

The Tenderer shall state briefly any deviation contained in his main offer from the specification. If the deviations are listed in a covering letter then reference of the letter shall be made below.

| Item or Clause | Deviation | Covering letter page |
|----------------|-----------|----------------------|
|                |           |                      |

Seal & Signature of Tenderer with Date

**Schedule - V**Tender drawings and publications

The Tenderer shall furnish a list of drawings, publications, copies of type test certificate and other literature illustrating the equipments offered in his tender. The copy of each item listed shall be uploaded with the tender.

| Title | Reference |
|-------|-----------|
|       |           |

Seal & Signature of Tenderer with Date

## **SECTION- 17 TYPICAL DRAWINGS**

**(Separately Attached)**

**Drawings are schematic and attached with area calculations. The Podium P1-P5 are proposed for parking which are separately shown in plan. Clarifications regarding the same for any queries will be responded in the Pre-Bid meeting.**

**SECTION – 18**  
**FINANCIAL BID FORM**  
**& OTHERS**

# (FORM 'B')

## **Financial Bid Form 'B'**

Sub: Bid No-

Due Date of e-Tender: As on cover  
page.

| <b>Sr.<br/>No.</b> | <b>Brief description and office<br/>estimate</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1.</b>          | <p>I/We have received, read and am/are agreeable to the content of page no. _to page no. including the Bill of Quantities while quoting the percentages offered. I/We have considered the contents of the documents contained in the above mentioned pages and into thereof, I/We have signed the documents.</p> <p>Name and Title of Signatory:</p> <p>Name of Tenderer(s):</p> <p>Address:</p> <p>E-Mail Address of the firm:</p> <p>Telephone numbers:</p> <p style="text-align: right;"><b>Digital Signature of<br/>Tenderer(s)<br/>Trading under the Name and<br/>style of</b></p> |

(A separate sheet must be filled, scanned and uploaded in packet B along with e-tendering)



**SECTION –19**  
**SCHEDULE OF PAYMENT**

| Sr. No. | Activity/phase of recommendation of Project work                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | %                                            | Sub- Total |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------|
| 1       | a) On submission of detailed methodology<br>b) Submission of Structural design, architectural design, project schedule and technical DPR with project execution manual with staffing and equipment details in close coordination with MA/PMC<br>c) On acceptance detailed methodology, structural design, architectural design, project schedule and technical DPR with project execution manual with staffing and equipment details in close coordination with MA/PMC by concerned competent BMC authority; subject to vetting of the design. | 1%<br>2%<br>2%                               | 5 %        |
| 2       | a) Obtaining all approvals/NOCs/Remarks of all statutory authorities of BMC/ state govt./ central govt./MOEF etc.<br>b) On transfer of ownership of land                                                                                                                                                                                                                                                                                                                                                                                       | 1%<br>1%                                     | 2%         |
| 3       | On Completion of Foundation up to based level of P1 with UG tanks.<br>a) On Completion of 20% Foundation<br>b) On Completion of 40% Foundation<br>c) On Completion of 60% Foundation<br>d) On Completion of 80% Foundation<br>e) On Completion of 100% Foundation                                                                                                                                                                                                                                                                              | 2.0%<br>2.0%<br>2.0%<br>2.0%<br>2.0%         | 10%        |
| 4       | g) On Completion of P1 roof<br>h) On Completion of P2 roof<br>i) On Completion of P3 roof<br>j) On Completion of P4 roof<br>k) On Completion of P5 roof<br>l) On Completion of stilt roof                                                                                                                                                                                                                                                                                                                                                      | 1.5%<br>1.5%<br>1.5%<br>1.5%<br>1.5%<br>1.5% | 9%         |
| 5,6,7,8 | As below                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                              |            |
|         | a) On Completion of 5% of super structure slab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1.3 %                                        | 26%        |
|         | b) On Completion of 10% of super structure slab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1.3%                                         |            |
|         | c) On Completion of 15% of super structure slab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1.3%                                         |            |
|         | d) On Completion of 20% of super structure slab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1.3%                                         |            |
|         | e) On Completion of 25% of super structure slab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1.3%                                         |            |
|         | f) On Completion of 30% of super structure slab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1.3%                                         |            |
|         | g) On Completion of 35% of super structure slab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1.3%                                         |            |
|         | h) On Completion of 40% of super structure slab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1.3%                                         |            |
|         | i) On Completion of 45% of super structure slab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1.3%                                         |            |
|         | j) On Completion of 50% of super structure slab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1.3%                                         |            |
|         | k) On Completion of 55% of super structure slab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1.3%                                         |            |
|         | l) On Completion of 60% of super structure slab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1.3%                                         |            |

|    |                                                                                         |       |     |
|----|-----------------------------------------------------------------------------------------|-------|-----|
|    | m) On Completion of 65% of super structure slab                                         | 1.3%  |     |
|    | n) On Completion of 70% of super structure slab                                         | 1.3%  |     |
|    | o) On Completion of 75% of super structure slab                                         | 1.3%  |     |
|    | p) On Completion of 80% of super structure slab                                         | 1.3%  |     |
|    | q) On Completion of 85% of super structure slab                                         | 1.3%  |     |
|    | r) On Completion of 90% of super structure slab                                         | 1.3%  |     |
|    | s) On Completion of 95% of super structure slab                                         | 1.3%  |     |
|    | t) On Completion of 100% of super structure slab                                        | 1.3%  |     |
| 9  |                                                                                         |       |     |
|    | a) On Completion of 10% Masonry Work, frames, jambs including concealed services if any | 1.00% | 10% |
|    | b) On Completion of 20% Masonry Work, frames, jambs including concealed services if any | 1.00% |     |
|    | c) On Completion of 30% Masonry Work, frames, jambs including concealed services if any | 1.00% |     |
|    | d) On Completion of 40% Masonry Work, frames, jambs including concealed services if any | 1.00% |     |
|    | e) On Completion of 50% Masonry Work, frames, jambs including concealed services if any | 1.00% |     |
|    | f) On Completion of 60% Masonry Work, frames, jambs including concealed services if any | 1.00% |     |
|    | g) On Completion of 70% Masonry Work, frames, jambs including concealed services if any | 1.00% |     |
|    | h) On Completion of 80% Masonry Work, frames, jambs including concealed services if any | 1.00% |     |
|    | i) On Completion of 90% Masonry Work, frames, jambs including concealed services if any | 1.00% |     |
|    | j) On Completion of 90% Masonry Work, frames, jambs including concealed services if any | 1.00% |     |
| 10 |                                                                                         |       |     |
|    | d) On Completion of 35% internal Plaster                                                | 1%    | 3%  |
|    | e) On Completion of 70% internal Plaster                                                | 1%    |     |
|    | f) On Completion of 100% internal Plaster                                               | 1%    |     |
| 11 |                                                                                         |       |     |
|    | d) On Completion of 35% internal Plumbing                                               | 1%    | 3%  |
|    | e) On Completion of 70% internal Plumbing                                               | 1%    |     |
|    | f) On Completion of 100% internal Plumbing                                              | 1%    |     |
|    |                                                                                         |       |     |
| 12 | On Completion of internal Painting                                                      |       |     |
|    | e) On completion of 25% internal Painting                                               | 0.50% | 2%  |

|    |                                                              |       |      |
|----|--------------------------------------------------------------|-------|------|
|    | f) On completion of 50% internal Painting                    | 0.50% |      |
|    | g) On completion of 75% internal Painting                    | 0.50% |      |
|    | h) On completion of 100% internal Painting                   | 0.50% |      |
| 13 |                                                              |       |      |
|    | a) On Completion of 25% external Plaster                     | 0.75% | 3%   |
|    | b) On Completion of 50% external Plaster                     | 0.75% |      |
|    | c) On Completion of 75% external Plaster                     | 0.75% |      |
|    | d) On Completion of 100% external Plaster                    | 0.75% |      |
|    |                                                              |       |      |
| 14 | On Completion of external Plumbing                           |       |      |
|    | d) On completion of 50% external plumbing                    | 0.50% | 1%   |
|    | e) On completion of 50% external plumbing                    | 0.50% |      |
|    |                                                              |       |      |
| 15 | On Completion of external Painting                           |       |      |
|    | e) On completion of 25% external Painting                    | 0.25% | 1%   |
|    | f) On completion of 50% external Painting                    | 0.25% |      |
|    | g) On completion of 75% external Painting                    | 0.25% |      |
|    | h) On completion of 100% external Painting                   | 0.25% |      |
| 16 |                                                              |       |      |
|    | a) On Completion of 12.5% Flooring , skirting & dado         | 0.75% | 6%   |
|    | b) On Completion of 25.0% Flooring , skirting & dado         | 0.75% |      |
|    | f) On Completion of 37.5% Flooring , skirting & dado         | 0.75% |      |
|    | d) On Completion of 50% Flooring , skirting & dado           | 0.75% |      |
|    | e) On Completion of 62.5% Flooring , skirting & dado         | 0.75% |      |
|    | f) On Completion of 75% Flooring , skirting & dado           | 0.75% |      |
|    | g) On Completion of 87.5% Flooring , skirting & dado         | 0.75% |      |
|    | h) On Completion of 100% Flooring , skirting & dado          | 0.75% |      |
| 17 |                                                              |       |      |
|    | a) 25% completion of work total quantum of Electrical Works  | 1.1%  | 4.4% |
|    | b) 50% completion of work total quantum of Electrical Works  | 1.1%  |      |
|    | c) 75% completion of work total quantum of Electrical Works  | 1.1%  |      |
|    | d) 100% completion of work total quantum of Electrical Works | 1.1%  |      |
|    |                                                              |       |      |
| 18 | On Completion of :-Doors/Windows/Grills                      |       | 2%   |
|    | g) 50% of Doors                                              | 0.40% |      |
|    | h) 100% of Doors                                             | 0.40% |      |
|    | i) 50% of Windows                                            | 0.40% |      |

|    |                                                                                                   |       |    |
|----|---------------------------------------------------------------------------------------------------|-------|----|
|    | j) 100% of Windows                                                                                | 0.40% |    |
|    | k) 50% of Grills                                                                                  | 0.20% |    |
|    | l) 100% of Grills                                                                                 | 0.20% |    |
|    |                                                                                                   |       |    |
| 19 | On Completion of lifts                                                                            |       |    |
|    | a)Successful installation of lift car.                                                            | 0.5%  |    |
|    | b)Installation of switch gear cables                                                              | 0.5%  |    |
|    | c) Total installation and trial run of lift.                                                      | 0.5%  | 2% |
|    | d) Commissioning of lift with receipt of lift PWD license.                                        | 0.5%  |    |
|    |                                                                                                   |       |    |
| 20 | On Completion of All O.H.Ts                                                                       |       |    |
|    | e) On completion of 25% of OHT works                                                              | 0.50% |    |
|    | f) On completion of 50% of OHT works                                                              | 0.50% | 2% |
|    | g) On completion of 75% of OHT works                                                              | 0.50% |    |
|    | h) On completion of 100% of OHT works                                                             | 0.50% |    |
|    |                                                                                                   |       |    |
| 21 | On Completion of Electrical meters                                                                |       |    |
|    | e) On completion of 25% of Electrical meters                                                      | 0.25% |    |
|    | f) On completion of 50% of Electrical meters                                                      | 0.25% | 1% |
|    | g) On completion of 75% of Electrical meters                                                      | 0.25% |    |
|    | h) On completion of 100% of Electrical meters                                                     | 0.25% |    |
|    |                                                                                                   |       |    |
| 22 | On Completion of Access road & internal pathways with streetlights etc.                           |       |    |
|    | d) On Completion of Access road & internal pathways with drain etc.                               | 0.25% |    |
|    | e) On installation of streetlights.                                                               | 0.25% | 1% |
|    | f) On Completion of all streetlights and finishing items.                                         | 0.5%  |    |
|    |                                                                                                   |       |    |
| 23 | On Completion of Drainage network with S.T.P(if applicable),S.W.D , Water mains and nala training |       |    |
|    | c) On Completion of internal Drainage network with S.T.P.                                         | 1%    |    |
|    | d) On Completion of Water mains and nala training and S.W.D.                                      | 1%    | 2% |
|    |                                                                                                   |       |    |

|    |                                                                                                                                                                                                                                                                                                                                         |                              |             |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------|
| 24 | On Completion of Compound wall with main gate R.G area etc.                                                                                                                                                                                                                                                                             |                              | 1%          |
|    | c) On Completion of Compound wall with main gate.                                                                                                                                                                                                                                                                                       | 0.5%                         |             |
|    | d) Other area , R.G and landscape area                                                                                                                                                                                                                                                                                                  | 0.5%                         |             |
| 25 | On completion of Fire Fighting Works<br>25% of firefighting works<br>50% of firefighting works<br>75% of firefighting works<br>100% of firefighting works                                                                                                                                                                               | 0.4%<br>0.4%<br>0.4%<br>0.4% | 1.6%        |
| 26 | Occupation Certificate and handing over of project                                                                                                                                                                                                                                                                                      |                              | 2%          |
|    | c) Occupation Certificate                                                                                                                                                                                                                                                                                                               | 0.5%                         |             |
|    | d) Handing over of project with snag list compliance and submission of all documents for maintenance under defects liability period with handover manual, as built drawings for architectural, structural ,services and other relevant drawings and as per the requirements of competent authority/user Department in sets as required. | 1.5%                         |             |
|    | <b>Total</b>                                                                                                                                                                                                                                                                                                                            |                              | <b>100%</b> |

## **SECTION 20**

### **PROJECT ESTIMATE**

| No. | Description                                                                                                                                                                                                                                                                                                                                                                                                                           | Construction Area (Sqm) | Cost per sqm. (in Rs.)     | Total Amt. (Rs.) |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|----------------------------|------------------|
| 1   | Residential Tenements Type III-416 nos of flats with 27 floors-55.55 sqm.carpet area (Building 8)                                                                                                                                                                                                                                                                                                                                     | 40901.5                 | 100% of Rs. 48000 per sqm. | 1963272000       |
| 2   | Residential Tenements Type II- 308 nos of flats with 27 floors-37.80 sqm.carpet area (Building 9)                                                                                                                                                                                                                                                                                                                                     | 23969.1                 | 100% of Rs. 48000 per sqm. | 1150516800       |
| 3   | Podium for car parking- 5 floors + Stilt inclusive of security room, BMS room, society office and toilet , ladies and gents staff toilet, letter box areas, meter room and all areas stipulated in tender document (22,906.40 parking + 4,581.28 stilt)                                                                                                                                                                               | 27487.68                | 65% of Rs. 48000 per sqm.  | 857615616        |
| 4   | Terrace Area including OHT (domestic, flushing and firefighting) Staircase cabin 3m ht. and parapet 1.5m                                                                                                                                                                                                                                                                                                                              | 2830.66                 | 25% of Rs. 48000 per sqm.  | 33967920         |
| 5   | Landscaping inclusive of earth filling , garden earth filling , waterprofing and water disposal at podium level, lawn and shrub plantation ,irrigation systemand all requisite servives and rain water disposal system.(landscape areas are considered at ground level/ podium top level as per approval drawings                                                                                                                     | 2186.73                 | 20% of Rs. 48000 per sqm.  | 20992608         |
| 6   | Internal Roads- of phase II area inclusive of road construction as per tender document, storm water drain, street lights and requisite surdives including paver finish as per tender.(cost includes security cabin provision at all gates - 4 gates)                                                                                                                                                                                  | 2736.59                 | 20% of Rs. 48000 per sqm.  | 26271264         |
| 7   | Compound Wall for plot boundary between phase I and phase II for 102.4m for height of 1.95m totalling 199.72 sq.m. compound wall will constructed as per tender specification inclusive of requisite foundation and two no of gate of height , width 9m                                                                                                                                                                               | 199.72                  | 20% of Rs. 48000 per sqm.  | 1917312          |
| 8   | Substation- Provision of substation is taken in this tender incase specifically insisted on by electrical supply authority. Incase phase I substation is adequate to cater to total power requirements of phase II and supply authorities do not insist on separate substation, the same will not be constructed and cost deducted from overall project cost. (substation if constructed, is to be planned in the RG at ground level) | 360                     | 65% of Rs. 48000 per sqm.  | 11232000         |
| 9   | Refuge Area- At all levels as per approval drawings including provision of ladies and gents toilets, drinking water facilities and provision as per tender and municipal approval authority requirements.                                                                                                                                                                                                                             | 1839.08                 | 65% of Rs. 48000 per sqm.  | 57379296         |
| 10  | Underground Tank- inclusive of fire fighting storage, domestic and flushing storage, sumps, access ladders ,manholes ,vent pipes, piping and pumping connections ,pumps, electrical connections and pump room complete with all equipment as per tender and CFO requirements                                                                                                                                                          | 341.88                  | 20% of Rs. 48000 per sqm.  | 3282048          |
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                       | 102852.94               | Total                      | 4126446864       |



**SECTION-21**  
**CIRCULARS**

बृहन्मुंबई महानगरपालिका

परिपत्रक  
२०२३-२०२४

क्र. सीए/एफआरजी/ १० दिनांक १९.१०.२०२३

विषय :- महानगरपालिकेच्या विविध खात्यांमार्फत मागविण्यात येणा-या अनस्टार दरपत्रिका/  
निविदा/दरपत्रिका/ ई-दरपत्रिका/ ई-निविदा दस्तऐवजांच्या छाननी शुल्काबाबत

संदर्भ :- १) प्रले/एफसीई/२८ दि. १३.०९.२०२३

२) परिपत्रक क्र. सीए/एफआरजी/२१ दिनांक ०८.०२.२०२३

३) एमजीसी/एफ/९५८५ दि. ११.०५.२०२३

४) परिपत्रक क्र. सीए/एफआरजी/०३ दिनांक ११.०५.२०२३

५) अति.आ./प्रकल्प/१३५१ दि. २३.०५.२०२३

६) परिपत्रक क्र. सीए/एफआरजी/०४ दि. २४.०५.२०२३

बृहन्मुंबई महानगरपालिकेच्या विविध खात्यांमार्फत मागविण्यात येणाऱ्या अनस्टार दरपत्रिका/निविदा/दरपत्रिका/ ई-दरपत्रिका/ई-निविदा दस्तऐवजांकरिता छाननी शुल्क आकारण्याबाबत उपरोक्त संदर्भ क्र. ४ व ६ अन्वये परिपत्रक निर्गमित करण्यात आले होते. परिपत्रक क्र. सीए/एफआरजी/०३ दिनांक ११.०५.२०२३ मध्ये पुढील प्रमाणे निर्देश देण्यात आले आहेत.

“सर्व खाते प्रमुख/सहाय्यक आयुक्त/रुग्णालय प्रमुख, अधिष्ठाता यांनी त्यांच्या अखत्यारीतील संबंधित कर्मचारीवृंदाना उपरोक्त सुचनेची काटेकोरपणे अंमलबजावणी करण्याचे तसेच मंजुरीच्या दिनांकापासून मागविण्यात येणाऱ्या अनस्टार दरपत्रिका/ निविदा/ दरपत्रिका/ ई-दरपत्रिका/ई-निविदा दस्तऐवजांकरिता निविदा शुल्क न आकारता सर्व देकारदारांकडून या परिपत्रकातील सुधारित दरांनुसार इसारा अनामत रक्कमेचा परतावा करण्यापूर्वी छाननी शुल्क अनुशेष वस्तू व सेवाकरासहित वसूल करण्याचे अथवा देकारदाराच्या संमतीने इसारा अनामत रक्कमेतून समापोजित करण्यासंबंधीचे निर्देश द्यावेत. ”

तदनंतर सुधारित परिपत्रक क्र. सीए/एफआरजी/०४ दि. २४.०५.२०२३ निर्गमित करण्यात आले. सदर परिपत्रकात पुढील प्रमाणे निर्देश देण्यात आले आहेत.

“दरपत्रिका/निविदा/दरपत्रिका/ई-दरपत्रिका/ई-निविदा दस्तऐवजांकरिता मा. महानगरपालिका आयुक्तांच्या मंजुरीच्या दिनांकापासून छाननी शुल्क न आकारता, एसआरएम कार्यप्रणाली मध्ये निविदा शुल्क न आकारण्यासंबंधीची कार्यवाही माहिती व तंत्रज्ञान खात्याकडून पूर्ण झाल्यावर त्यानंतरच निविदाकाराकडून छाननी शुल्क आकारण्यात यावेत. तसेच सदर छाननी शुल्काचा भरणा लेखा संकेतांक 140402609 - Scrutiny Fees From Tenders (From May 2023)-Taxable यामध्ये करण्यात यावा.”

परिपत्रक क्र. सीए/एफआरजी/०४ दि. २४.०५.२०२३ मध्ये नमूद केल्यानुसार एसआरएम प्रणाली मध्ये आवश्यक ते बदल माहित व तंत्रज्ञान विभागाकडून दि. २३.०६.२०२३ रोजी पूर्ण करण्यात आले आहेत.

दरम्यान माहिती व तंत्रज्ञान विभागामार्फत परिपत्रक क्र. Dir/IT/F-59 दि. १०.०५.२०२३ निर्गमित करण्यात आले. सदर परिपत्रकामध्ये दि. १५.०६.२०२३ पासून रु.२५ लाखावरील सर्व निविदा महानगरपालिकेच्या एसआरएम प्रणालीद्वारे न मागविता महाराष्ट्र शासनाच्या महाटॅंडर पोर्टलद्वारे मागाविण्याबाबत निर्देश देण्यात आले आहेत. तसेच परिपत्रक क्र. सीए/एफआरजी/०३ दिनांक ११.०५.२०२३ मध्ये इसारा अनामत रक्कमेचा परतावा करण्यापूर्वी छाननी शुल्क, अनुज्ञेय वस्तू व सेवाकरासहित वसूल करण्याचे अथवा देकारदाराच्या संमतीने इसारा अनामत रक्कमेतून समायोजित करण्यासंबंधीचे निर्देश देण्यात आले आहेत. तथापि महाराष्ट्र शासनाच्या महाटॅंडर पोर्टलवर इसारा अनामत रक्कमेतून समायोजना करण्याची सुविधा नसल्याने पुढील प्रमाणे सुधारित निर्देश देण्यात येत आहेत.

“महाराष्ट्र शासनाच्या महाटॅंडर / एसआरएम प्रणालीद्वारे मागविण्यात येणारे सर्व अनस्टार दरपत्रिका/निविदा/दरपत्रिका/ ई-दरपत्रिका/ ई-निविदा दस्तऐवजांकरिता निविदा शुल्क (Tender Fee) न आकारता सर्व देकारदारांकडून परिपत्रक क्र. सीए/एफआरजी/०३ दिनांक ११.०५.२०२३ मधील सुधारित दरांनुसार छाननी शुल्क (Scrutiny Fee) अनुज्ञेय वस्तू व सेवाकरासहित लिफाफा 'अ' व 'ब' उघडल्यानंतर व लिफाफा 'क' उघडण्याआधी फक्त नागरी सुविधा केंद्रात चलनाद्वारे भरण्यात यावे.”

संदर्भित परिपत्रकातील अन्य निर्देशांमध्ये कोणताही बदल करण्यात आलेला नाही.

सही/-१६.१०.२०२३  
श्री.पांडुरंग गोसावी  
प्रमुख लेखापाल (पा.पु.म.नि.)

सही/-१६.१०.२०२३  
श्री. प्रदिप भा. पडवळ  
प्रमुख लेखापाल (वित्त)प्र.

सही/-१६.१०.२०२३  
श्री. प्रशांत गापकवाड  
उप. आयुक्त (वित्त) प्र.

सही/-१६.१०.२०२३  
श्री. पी. वेलरासू  
अति.आयुक्त (प्रकल्प)

परिपत्रक

२०२३-२४

क्र.सीए/एफआरजी/१० दिनांक १९.१०.२०२३

प्रत .....(जादा .....प्रतीसह) यांना माहितीकरिता व पुढील  
आवश्यक त्या कार्यवाहीकरिता अग्रेषित.

प्रमुख लेखापाल (वित्त) यांजकरिता

## बृहन्मुंबई महानगरपालिका

### परिपत्रक

प्र.ले./वित्त/प्रकल्प/२८ दि. २८/०३/२०२३

विषय: एकसामायिक दरसूची २०२३ अंतर्भूत करून महानगरपालिकेद्वारे हाती घेण्यात येणारी विविध कामे तसेच प्राप्त करण्यात येणा-या वस्तु व सेवा इत्यादीबाबतच्या ई-निविदा/निविदा/दरपत्रक यामध्ये वस्तु व सेवा कराच्या अनुषंगाने अंतर्भूत करावयाच्या अटीबाबत.

संदर्भ: १) प्र.ले./वित्त/प्रकल्प/२५ दि.१२.०७.२०२२

२) संचालक/अ.से.व प्र./२९१/एमसी दि.३१.०१.२०२३

बृहन्मुंबई महानगरपालिकेद्वारे हाती घेण्यात येणारी विविध कामे तसेच प्राप्त करण्यात येणा-या वस्तु व सेवा इत्यादीबाबतच्या ई-निविदा/निविदा/दरपत्रक यामध्ये वस्तु व सेवा कराच्या अनुषंगाने अंतर्भूत करावयाच्या अटीबाबत संदर्भित क्र. १ वरील परिपत्रकान्वये सूचना प्रसृत केल्या आहेत.

महानगरपालिका आयुक्त यांच्या क्र. एमजीसी/एफ/८७७१ दि. ३०.०१.२०२३ अन्वये एकसमान दरसूची २०२३ प्रसारीत करण्यात आली आहे. सदर एकसामायिक दरसूची २०२३ हि वस्तु व सेवाकर वगळून तयार करण्यात आली आहे. सदर अद्ययावत एकसामायिक दरसूची २०२३ नुसार अंदाजपत्रक तयार करून मागविण्यात आलेल्या/येणा-या ई-निविदा/निविदा/दरपत्रक यांमध्ये वस्तु व सेवाकराच्या अनुषंगाने महानगरपालिकेद्वारे हाती घेण्यात येणारी विविध कामे तसेच प्राप्त करण्यात येणा-या वस्तु

व सेवा इत्यादीबाबतच्या ई-निविदा/निविदा/दरपत्रक यामध्ये संदर्भित क्र.१ अन्वये दिलेल्या अटीमध्ये पुढीलप्रमाणे बदल करण्यात येत आहे.

| विद्यमान अट                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | सुधारित अट                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>“GST and other state levies/cess which are not subsumed under GST will be applicable. The tenderer shall quote inclusive of all taxes <u>applicable at the time of bid submission</u>. It is clearly understood that BMC will not bear any additional liability towards payment of any Taxes &amp; Duties.</p> <p>Wherever the services to be provided by the Tenderers, falls under Reverse Charge Mechanism, the Price quoted shall be exclusive of GST, but inclusive of Taxes/Duties/Cess other than GST, if any.</p> <p>Rates accepted by BMC shall hold good till completion of work and no additional individual claim shall be admissible on account of fluctuations in market rates; increase in taxes/any other levies / tolls etc. except that payment/recovery for overall market situation shall be made as per Price variation <b>and if there is any subsequent change (after submission of bid) in rate of GST applicable on the work/services to be executed as per tender, i.e. any increase will be reimbursed by BMC whereas any reduction in the rate of GST shall be passed on to BMC as per the provisions of the GST Act.</b></p> | <p>The tenderer shall quote inclusive of all taxes other than GST (<b><u>Excluding GST</u></b>), <u>Levies, Duties, Cess etc as applicable at the time of bid submission</u>. GST as applicable shall be paid separately on submission of bills/invoice.</p> <p>Input Tax Credit of GST as available with the bidder will not be claim separately by BMC. However, while quoting the rates benefit of Input Tax Credit or Exemptions shall be passed on to the BMC by way of equivalent reduction in quoted price.</p> |

उपरोक्त सुधारीत अट अद्ययावत एकसामायिक दरसूची २०२३ नुसार अंदाजपत्रक तयार करुन मागविण्यात आलेल्या/ येणा-या ई-निविदा/निविदा/दरपत्रक या कामांकरिता लागू असेल.

अतएव, सध्या ज्या ई-निविदा/निविदा/दरपत्रक एकसामायिक दरसूची २०२३ अंतर्भुत करुन मागविलेल्या आहेत अशा निविदांमध्ये नियत दिनांकापूर्वी शुद्धीपत्रकाद्वारे उपरोक्त सुधारीत अट समाविष्ट करण्याबाबत तसेच यापुढे एकसामायिक दरसूची २०२३ अंतर्भुत करुन मागविण्यात येणाऱ्या ई-निविदा/निविदा/दरपत्रक यांमध्ये उपरोक्त सुधारीत अट समाविष्ट करण्याबाबत संबंधित खातेप्रमुख यांनी दक्षता घ्यावी.

सर्व खातेप्रमुख, रूग्णालयांचे अधिष्ठाता, सहायक आयुक्त, यांनी उपरोक्त सुचनांचे काटेकोरपणे अनुपालन करावे.

सही/- २८/०३/२०२३

(पांडुरंग गोसावी)

प्रमुख लेखापाल (पा.पु.म.नि.)

सही/- २८/०३/२०२३

(प्रदिप पडवळ)

प्रमुख लेखापाल (वित्त) प्र.

सही/- २८/०३/२०२३

(रामदास आव्हाड)

उप आयुक्त (वित्त)

सही/- २८/०३/२०२३

(पी. वेलरासू)

अतिरिक्त आयुक्त (प्रकल्प)



**MUNICIPAL CORPORATION OF GREATER MUMBAI**

No. CHE /BM/019919/II dated 07.01.2019.

**CIRCULAR**

Sub:- Corrections in parameters i.e. similar work experience criteria for major structural repairs / maintenance works & reconstruction / new construction building works undertaken through all M.C.G.M. departments and other corrections in para of curable and non-curable defects and the Header Data of the S.B.D.

Ref:- (1) MGC/ F/8058 dated 03.01.2019

The following amendments / corrections are proposed to be made in the respective paras of the S.B.D. document for **"works of carrying out major structural repairs / maintenance works and reconstruction / new construction building works"** undertaken through all M.C.G.M. departments as per approval of Hon'ble M.C. u/no.MGC/ F/8058 dated 03.01.2019.

- (I) **Para-Clause 1.3 : Similar experience (for works of carrying out major structural repairs / maintenance works and reconstruction / new construction building works)**

| Sr. No. | As per SBD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Proposed Amendment                                                                                                                                                                                                                                                                                                     |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.      | For assessing the technical capacity of "Regular, Routine and Maintenance works; Similar work shall mean, the completed or on-going works in Building Construction OR Building Maintenance such as repairs OR construction / repairs of asphalt / concrete roads OR laying / rehabilitation of sewer lines along with allied components OR laying / rehabilitation of water pipe lines in Cast Iron / M.S. Pipes / HDPE/MDPE pipes OR repairs/ maintenance / construction of culverts over nullah. | <b>"For assessing the technical capacity of major structural repairs / maintenance works and reconstruction / new construction works; similar work shall mean, the completed or on-going works in Building Construction OR Building Maintenance such as repairs / retrofitting / upgradation/ structural repairs".</b> |
| 2.      | As per Circular No.MDD/9945 of 30.01.2017 para "D", the 'Similar Experience' for 'Regular Routine and Maintenance works' shall mean " <i>any work in any department" as mentioned hereinafter.</i>                                                                                                                                                                                                                                                                                                 | <b>Not to be insisted for "major structural repairs / maintenance works and reconstruction / new construction building works".</b>                                                                                                                                                                                     |

(II) **Para-Curable and Non-Curable defects**

| As per SBD |                                                                                                                                                                                                                                                                                                                                                              | Proposed Amendment |                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (i)        | <u>Curable Defect shall mean shortfalls in submission such as :</u>                                                                                                                                                                                                                                                                                          |                    | <u>Curable Defect shall mean shortfalls in submission such as :</u>                                                                                                                                                                                                                                                                                                                                       |
|            | a) Non-submission of following documents<br>(i) Valid Registration Certificate<br>(ii) Valid Bank Solvency<br>(iii) Sales Tax Registration Certificate (VAT)<br>(iv) Certified copies of PAN documents and photographs of individuals, owners etc.<br>(v) Partnership Deed and any other documents.<br>(vi) Undertaking as mentioned in the tender document. | a)                 | Non-submission of following documents<br>(i) Valid Registration Certificate<br>(ii) Valid Bank Solvency<br>(iii) Sales Tax Registration Certificate (VAT)/Goods and Service Tax Registration certificate.<br>(iv) Certified copies of PAN documents and photographs of individuals, owners etc.<br>(v) Partnership Deed and any other documents.<br>(vi) Undertaking as mentioned in the tender document. |
|            | b) Wrong calculation of Bid Capacity                                                                                                                                                                                                                                                                                                                         | b)                 | - Deleted -                                                                                                                                                                                                                                                                                                                                                                                               |
|            | c) No proper submission of experience certificates and other documents, etc.                                                                                                                                                                                                                                                                                 | c)                 | - Deleted -                                                                                                                                                                                                                                                                                                                                                                                               |
| (ii)       | <u>Non-Curable Defect shall mean</u>                                                                                                                                                                                                                                                                                                                         | ii)                | <u>Non-Curable Defect shall mean</u>                                                                                                                                                                                                                                                                                                                                                                      |
|            | a) Inadequate submission of EMD/ ASD amount                                                                                                                                                                                                                                                                                                                  | a)                 | Inadequate submission of EMD/ ASD amount                                                                                                                                                                                                                                                                                                                                                                  |
|            | b) Inadequacy of technical or financial capacity with respect to eligibility criteria as stipulated in the tender.                                                                                                                                                                                                                                           | b)                 | Inadequacy of technical or financial capacity with respect to eligibility criteria as stipulated in the tender.                                                                                                                                                                                                                                                                                           |
|            |                                                                                                                                                                                                                                                                                                                                                              | c)                 | <b>Wrong calculation of Bid Capacity.</b>                                                                                                                                                                                                                                                                                                                                                                 |
|            |                                                                                                                                                                                                                                                                                                                                                              | d)                 | <b>No proper submission of experience certificates and other documents, etc.</b>                                                                                                                                                                                                                                                                                                                          |

(III) **Para-Header Data**

| As per present practice |                                         | As per proposed modification |                                         |
|-------------------------|-----------------------------------------|------------------------------|-----------------------------------------|
| Tender Document No.     | XXXXXXXXXXXXXX                          | Tender Document No.          | XXXXXXXXXXXXXX                          |
| Name of Organisation    | Municipal Corporation of Greater Mumbai | Name of Organisation         | Municipal Corporation of Greater Mumbai |
| Subject                 | XXXXXXXXXXXXXX                          | Subject                      | XXXXXXXXXXXXXX                          |
| Cost of Tender          | Rs. XXXXXXXXXXXX/- ( 5.5% VAT)          | Cost of Tender               | 2.50% SGST + 2.50% CGST)                |



|                                                                              |                                                                                                                                           |                                                                                             |                                                                                                                                           |
|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Cost of E-Tender (Estimated Cost)                                            | Rs.                                                                                                                                       | Cost of E-Tender (Estimated Cost)                                                           | Rs.                                                                                                                                       |
| Bid Security Deposit /EMD                                                    | Rs.                                                                                                                                       | Bid Security Deposit / EMD                                                                  | Rs.                                                                                                                                       |
| Date of issue and sale of tender                                             | ..... from 11.00 Hrs.                                                                                                                     | Date of issue and sale of tender                                                            | ..... from 11.00 Hrs.                                                                                                                     |
| Last date & time for sale of tender & <u>Receipt of Bid Security Deposit</u> | ..... from 12.00 Hrs.                                                                                                                     | Last date & time for sale of tender                                                         | ..... from 12.00 Hrs.                                                                                                                     |
| Submission of Packet A, B & Packet C online.                                 | ..... from 16.00 Hrs.                                                                                                                     | Submission of Packet A, B & Packet C online & <b><u>Receipt of Bid Security Deposit</u></b> | ..... from 16.00 Hrs.                                                                                                                     |
| Pre-Bid Meeting                                                              | ..... from 11.00 Hrs. in conference room of Ch.E.(.....)                                                                                  | Pre-Bid Meeting                                                                             | ..... from 11.00 Hrs. in conference room of Ch.E.(.....) <b>as applicable.</b>                                                            |
| Opening of Packet 'A'                                                        | ..... after 16.01 Hrs.                                                                                                                    | Opening of Packet 'A'                                                                       | ..... after 16.01 Hrs.                                                                                                                    |
| Opening of Packet 'B'                                                        | ..... after 15.00 Hrs.                                                                                                                    | Opening of Packet 'B'                                                                       | ..... <b>after 16.10 Hrs.</b>                                                                                                             |
| Opening of Packet 'C'                                                        | ..... after 15.00 PM.                                                                                                                     | Opening of Packet 'C'                                                                       | ..... after 15.00 PM.                                                                                                                     |
| Address for communication                                                    | Office of the Ch.E.(.....)'s office M.C.G.M., ----- floor, Engineering Hub Building, Dr.E.Moses Road, Worli Naka, Worli, Mumbai - 400018. | Address for communication                                                                   | Office of the Ch.E.(.....)'s office M.C.G.M., ----- floor, Engineering Hub Building, Dr.E.Moses Road, Worli Naka, Worli, Mumbai - 400018. |
| Venue for opening of Bid                                                     | Online in Ch.Engg. (.....)'s office.                                                                                                      | Venue for opening of Bid                                                                    | Online in Ch.Engg. (.....)'s office.                                                                                                      |

The above amendments shall be made applicable for "major structural repairs / maintenance works and reconstruction / new construction building works" to be carried out through all M.C.G.M. departments and necessary correction shall be done in all tenders to be uploaded from this date onwards. The earlier circular issued in this regards for major structural repair / maintenance work u/No.CHE/BM/1365/II dt 20.04.2018 is treated as canceled with immediate effect.

sd/-  
**Dy.C.E.(S.I.C.)**

sd/-  
**City Engineer**

Sd/-  
**Director (E.S.&P.)**

sd/-  
**A.M.C.(City)**

sd/-  
**A.M.C.(W.S.)**

Sd/- 03.01.2019  
**M.C.**

**Sd/-**  
**07.01.2019**  
**Ch.Eng. (BM)**

Copy to –

CHE /BM/019919/II dated 07.01.2019.

|                                     |                               |                                |
|-------------------------------------|-------------------------------|--------------------------------|
| Director(E.S&P)                     | DMC(Public Health)            | D.M.C.(Garden Cell)            |
| DMC(Engineering)                    | DMC(Special Engineering)      | DMC(School)                    |
| DMC(SWM)                            | DMC(Vigilance)                | Director(M.E&MH)               |
| DMC(R.E)                            | D.M.C.(Fire Brigade)          | DMC(Environment)               |
| DMC, Zone _____                     | Director(I.T)                 | Dean,Nair hospital             |
| Dean,Nair Dental,                   | Dean,Sion Hospital            | Dean, KEM.                     |
| City engineer                       | Hydraulic engineer            | Chief Engineer(D.P)            |
| Chief Engineer(SWM)                 | Chief Engineer(SWD)           | Chief Engineer(Roads& Traffic) |
| Chief Engineer(M&E)                 | Chief Engineer(SP)            | Chief Engineer(S.O)            |
| Chief Engineer(MSDP)                | Chief Engineer(Bridges)       | Chief Engineer(WSP)            |
| Chief Engineer(Disaster Management) | Asst. Commissioner(market)    | Asst. Commissioner(Planning)   |
| Asst. Commissioner(R.E)             | Asst. Commissioner _____ ward | Asst. Commissioner(Estate)     |
| Executive Engineer(MHO)             | Chief Accountant(Finance)     | Chief Accountant(WSSD)         |

## बृहन्मुंबई महानगरपालिका

### परिपत्रक

प्र.ले./वित्त/प्रकल्प/शहर/२८ दि. १०.११.२०१७

विषय: महानगरपालिकेद्वारे हाती घेण्यात येणारी विविध प्रकल्प कामे तसेच खुर्दी करण्यात येणा-या वस्तु व सेवा इत्यादीबाबतच्या निविदांमध्ये वस्तु व सेवा कराच्या अनुषंगाने घ्यावयाचे विशेष परिशिष्ट-१ (Special Annexure-I) बाबत.

संदर्भ: १) प्र.ले./वित्त/प्रकल्प/शहर/३३ दि.०४.०३.२०१७

२) प्र.ले./वित्त/प्रकल्प/शहर/१२०अ दि.०८.०५.२०१७

३) प्र.ले./वित्त/प्रकल्प/शहर/८ दि.१४.०७.२०१७

संदर्भित परिपत्रकांन्वये वस्तु व सेवाकराच्या अनुषंगाने, निविदांमध्ये निविदाकाराने त्याच्या देकारामध्ये समाविष्ट असलेल्या सर्व करांची माहिती Special Annexure-I मध्ये दर्शविण्याबाबत वेळोवेळी यथोचित सूचना देण्यात आल्या आहेत.

संदर्भित परिपत्रकानुसार, निविदेतील अनुषंगिक अटी व शर्तीनुसार निविदाकाराने निविदा सादर करावयाच्या अंतिम दिनांकास लागू असलेल्या सर्व करांसहित दर उद्धृत करणे आवश्यक आहे. तसेच सदर Special Annexure-I मध्येही निविदाकाराने दर उद्धृत करताना विचारात घेतलेले कर, कराची टक्केवारी व रक्कम, दिलेल्या रकमात दर्शविणे आवश्यक आहे. तथापि, काही खातेप्रमुखांकडून काही प्रकरणी कंत्राटदाराच्या नियुक्तीसाठी लघुत्तम निविदाकाराची शिफारस करणारे प्रस्ताव व मसुदापत्र लेखाविभागास पडताळणीसाठी सादर केले असता, निविदाकाराने लिफाफा 'क' मध्ये उद्धृत केलेला दर व त्या अनुषंगाने आलेली रक्कम आणि Special Annexure-I मध्ये उद्धृत केलेली रक्कम, कराची टक्केवारी अथवा कराची रक्कम इत्यादींमध्ये तफावत/विसंगती असल्याचे निदर्शनास येत आहे. त्यामुळे अशा प्रकरणी कंत्राटदार म्हणून नियुक्तीसाठी निविदाकाराची शिफारस करताना खालील निर्देशांचे पालन करावे.

१. प्रथम लघुत्तम निविदाकार (L1) ठरविण्यासाठी निविदेचे मूल्यमापन (Tender Evaluation) करताना निविदाकारांनी सॅप कार्यप्रणालित लिफाफा 'क' मध्ये उद्धृत केलेला दर तसेच रक्कम व त्या अनुषंगाने आलेला निविदा तुलनात्मक तक्ता (Bid Comparison Statement Generated by SAP) हा अंतिम समजण्यात यावा.

२. निविदा दाखल करावयाच्या अंतिम दिनांकास (Last date of Tender Submission) लागू असलेले कर, सदर निविदेस त्यावेळी लागू होते असे विनारागत घेऊन आणि प्रथम लघुत्तम निविदाकाराने (L1 as per 'C' packet, i.e. Bid Comparison Statement Generated by SAP) निविदेसोबत Special Annexure-I अपलोड केलेले असेल तरच व आवश्यक असल्यास, प्रथम लघुत्तम निविदाकाराकडून युधारीत Special Annexure-I घेण्यात यावे. तथापि, ज्या प्रकरणी प्रथम लघुत्तम निविदाकाराने निविदेसोबत अपलोड केलेल्या Special Annexure-I मध्ये नमूद केलेली कराची टक्केवारी, निविदा सादर करावयाच्या शेवटच्या दिनांकास लागू असलेल्या जीएसटी दरापेक्षा जास्त असल्यास, प्रथम लघुत्तम निविदाकाराकडून स्पष्टीकरण घ्यावे.
३. प्रथम लघुत्तम निविदाकाराशिवाय (L1 as per 'C' packet, i.e. Bid Comparison Statement Generated by SAP) अन्य निविदाकारांशी वाटाघाटी (Negotiations) करू नयेत.
४. जीएसटी अंमलबजावणीनंतर सर्व प्रकारच्या वस्तु व सेवा खरेदी मधील कर स्वतंत्रपणे दर्शाविणे अनिवार्य आहे. याकरीता कार्यालयीन कामकाजात सुलभता येण्यासाठी निविदांमध्ये Special Annexure-I बाबतची अट समाविष्ट करण्यात आली असून त्याअनुषंगाने निविदाकारांकडून Special Annexure-I घेण्यात येते. कोणत्याही परिस्थितीमध्ये निविदेचे मूल्यमापनासाठी, प्रथम लघुत्तम निविदाकार ठरविण्यासाठी (Tender Evaluation i.e. deciding L1) Special Annexure-I प्रमाण मानता येणार नाही.
५. महापालिकेने वस्तु व सेवाकराच्या अनुषंगाने निविदाकारांनी उद्धृत केलेल्या दरामधील कररचना/कर रक्कम Special Annexure-I मध्ये दिलेल्या विहित नमून्यात जाहिर करण्याबाबत संदर्भित परिपत्रकांमध्ये निर्देश देण्यात आले होते. आता वस्तु व सेवाकराचे दर, रचना इत्यादी बाबी जाहिर झालेल्या असून Special Annexure-I ची प्रासंगिकता संपुष्टात आली आहे. यास्तव, यापुढील मागविण्यात येणाऱ्या निविदा/अतारांकित निविदा/दरपत्रक यांमध्ये Special Annexure-I घेणे आवश्यक नाही. यास्तव संदर्भित क्र.३ स्थित परिपत्रकामध्ये कराबाबत दिलेल्या अटीमध्ये खालील प्रमाणे बदल करण्यात येत आहे.



C-203

**Tax:**

"G.S.T. and other state levies/cess which are not subsumed under GST will be applicable. The tenderer shall quote inclusive of all taxes. It is clearly understood that MCGM will not bear any additional liability towards payment of any Taxes & Duties.

Wherever the services to be provided by the Tenderers, falls under Reverse Charge Mechanism, the Price quoted shall be exclusive of GST, but inclusive of Taxes/ Duties/ Cess other than GST, if any.

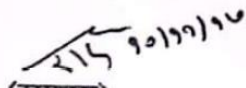
Rates accepted by MCGM shall hold good till completion of work and no additional individual claim shall be admissible on account of fluctuations in market rates; increase in taxes/ any other levies / tolls etc. except that payment / recovery for overall market situation shall be made as per Price Variation."

यापुढील मागविण्यात येणाऱ्या निविदा/अतारांकित निविदा/ दरपत्रक यांमध्ये कराबाबत उपरोक्त अटीचा समावेश करावा.

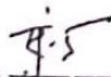
सर्व खातेप्रमुख , रूग्णालयांचे अधिष्ठाता, सहायक आयुक्त, उपप्रमुख लेखापाल .तसेच सर्व लेखाधिकारी यांनी उपरोक्त सुचनांचे काटेकोर पालन करावे.

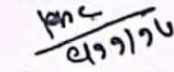
  
(रा.क.आव्हाड)  
०८/११/१८

प्रमुख लेखापाल(पा.पु.म.नि.)

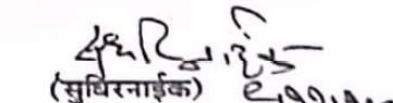
  
(रामदास)  
२१/११/१८

उप आयुक्त(म.ख.खा.)

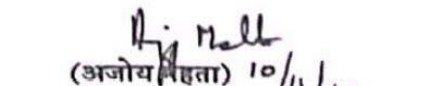
  
(डॉ. संजय मुखर्जी)  
अतिरिक्त आयुक्त(प्रकल्प)

  
(हेमलता येखे)  
२१/११/१८

प्रमुख लेखापाल (वित्त)

  
(सुधिरनाईक)  
२१/११/१८

उप आयुक्त(सा.प्र.)

  
(अजय महता)  
महानगरपालिका आयुक्त १०/११/१८

**BARRICADING CIRCULAR**  
**Revised Guidelines Regarding Barricades**

**MUNICIPAL CORPORATION OF GREATER MUMBAI**  
**CIRCULAR**

U/No.MGC/F/6342 dated 5.5.2018

**Sub.:** Revised guidelines regarding barricades being used during the execution of various infrastructure development projects by MCGM in Mumbai.

Various infrastructure development projects are being executed by MCGM for the betterment of citizens of Mumbai. During the course of execution of the projects, it is necessary to provide strong and secured barricading as a safety measure to avoid any mishaps as well as to avoid nuisance to vehicular and pedestrian traffic. Nowadays, the following types of barricades are being used exclusively in MCGM as per the convenience of various departments at different sites.

1. Water/sand fillable PVC Metro barricades.
2. RW 7.45 (G.I. sheets of 22 gauge fixed on 3 inch dia. Wooden bullies buried in existing road sufficiently)
3. RW 7.36 (G.I. sheets of 22 gauge fixed on MS Angle post buried in half the depth in drums of 20 litres capacity in 1:3:6 concrete)
4. Structural steel barricade for major trenches having depth more than 2.00 meters.

Thus from the above, it can be seen that there is no uniformity in provision of barricades as they are of different size and shape. Further it is also observed that the continuity is not maintained in providing the barricading keeping gaps in between thus endangering the safety of vehicular as well as pedestrian traffic. Also the barricades are not being cleaned, thus further adding to shabbiness. Further Mumbai being the financial capital of India, people from all over the world visit the city daily and to maintain good image of city the following decisions are taken.



- A) Only two type of barricades having department wise colour coding are proposed to be used depending upon the nature of work i.e. Minor and Major.
- i) **Minor works:** Barricading made out of 1.5 mm thick MS plate fixed on M.S. angle post/ frame of 65 mm X 65 mm X 6 mm having height of 1.5 m supported on as shown in Annex-I.
  - ii) **Major works:** Structural steel barricade made out of 1.50 mm thick M.S. Plate ISMB 250, ISLC 250X50mm and ISA 50mmX50mmX6 mm having of size 2.5 m X 2 m as shown in Annex-II.
- B) The department wise colour coding for the barricading shall be as under:-
- i) H.E. & W.S.P. department – Blue
  - ii) Roads, Traffic, Bridges and Coastal Roads department– Yellow
  - iii) S.P. & S.O department – Green
  - iv) S.W.D., Building Maintenance department & for ward works – Red
- C) The basic principle behind installing secured and continuous barricading is to ensure the safety of vehicular as well as pedestrian traffic and residents in the nearby vicinity of the project. Due to non-installation of appropriate barricades on sites if any mishap occurs leading to injury or loss of life, then the contractor and contractor's Engineer in-charge will be liable for the consequent action.
- D) During the course of execution of project, if it is noticed that the contractor has not provided barricading then a penalty of Rs.1000/- per meter per day will be imposed upon the contractor and will be deducted from the due Bill. This penalty shall be a part of penalty as per tender condition.
- E) Details of the work shall be prominently displayed on the central panel of the barricades along-with the Social Slogans as given in Annexure III and the Cycle of the same shall be maintained.
- F) The contractor shall provide and install the barricading alongwith the slogans printed as per the Annexure III, at his own cost and no payment will be made for this, however the contractor shall quote the bid accordingly by considering the cost of barricading.

The condition shall be included in the tender as given below.

Barricading shall be provided free of cost as per Circular vide U/No.MGC/F/6342 dated 5.5.2018 and as per Annexure I, II and III of Standard drawings and specifications with slogans and department wise colour codes." The copy of circular will be attached to the tender as a part of tender document.

This circular will be applicable for the new tenders proposed to be invited from 01.05.2018 and also the corrigendum shall be attached to tenders which are uploaded. However, for the projects wherein the tenders are already invited, the barricading shall be provided strictly as per tender condition. All the details (Annexure I, II & III of Standard drawings and specifications with slogans and department wise colour codes, sketches and department wise colour coding) are uploaded on MCGM portal.

This circular shall come in force with immediate effect.

sd/- 20.4.2018  
(Shri V.P. Chithore)  
Dir.(ES&P)

sd/- 20.4.2018  
(Shri R. B. Bambale)  
D.M.C.(S.E.)

sd/- 21.4.2018  
(Shri Vijay Singhal)  
A.M.C.(E.S.)

sd/- 21.4.2018  
(Dr. Shri Sanjay Mukherjee)  
A.M.C.(P.)

sd/- 5.5.2018  
(Shri Ajoy Mehta)  
M. C.

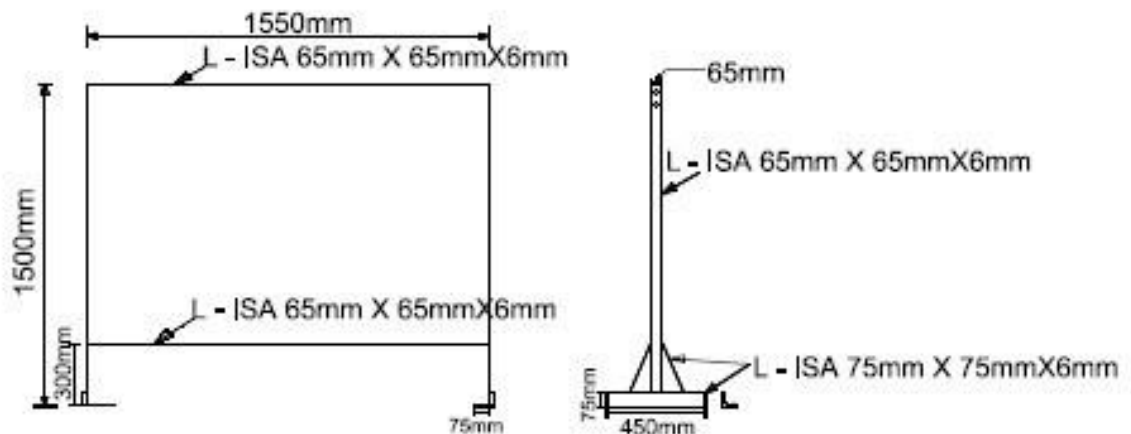
sd/-16.5.2018  
(Shri P. R. Kadam)  
D.M.C.(S.E.)



## ANNEXURE I

### **A) Minor work**

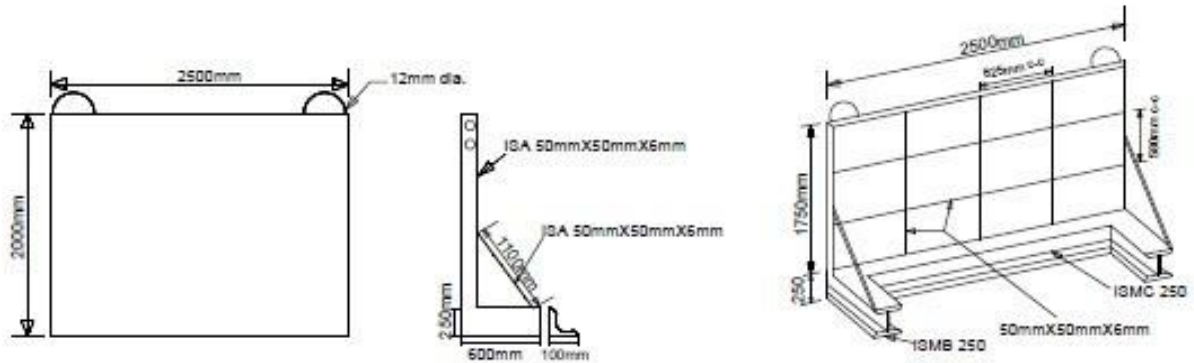
Providing, fabricating and installing the barricading made out of 1.5 m high M.S. Angle post of 65 mm X 65 mm X 6 mm with 1.5 mm thick M.S. Sheet of size 1.55 m X 1.2 m welded to the M.S. angle post/ frames and fixed to 75mm X 75mm X 6 mm angle base as shown in sketch for minor works , displaying of the social slogan as per the Annex - III, daily cleaning of the same to get better appearance and interlocking arrangement to ensure continuity in provision and to avoid gap in between etc complete and as directed by Engineer in-charge.



## ANNEXURE II

### **B) Major works:**

Providing, fabricating and installing the structural steel barricading made out of 1.5 mm thick M.S. plate of size 2500 mm X 2000 mm, ISMC 250 X 50 channels, M.S. Angles ISA 50 X 50 X 6mm and ISMB 250 as per IS 1161-1 RHS/SHS rolled angle plates of TATA Steel, Lloyd Steel, SAIL, ESSAR steel approved in straight profile of all sizes, shapes and for all works including stiffeners, bolts and nuts, fillet / butt welding, splicing, machine grinding, of all member joints wherever required to give neat appearance, and daily cleaning the barricading along with displaying of the Depthwise slogans as given in Annexure -III etc with interlocking arrangement to avoid gap in between and as directed by Engineer in-charge.



### ANNEXURE III

#### **1) HYDRAULIC ENGINEER'S DEPARTMENT/ WATER SUPPLY PROJECTS**

- i) Inconvenience regretted
- ii) Ensuring Mumbai's water supply
- iii) Save water Save life

#### **2) ROAD, TRAFFIC / BRIDGES DEPARTMENT**

- i) Inconvenience regretted
- ii) Working towards a better tomorrow
- iii) My Mumbai, Green Mumbai

#### **3) SEWERAGE PROJECTS DEPARTMENT/ SEWERAGE OPERATIONS DEPARTMENT**

- i) Inconvenience regretted
- ii) Reduce Reuse Recycle
- iii) Clean Mumbai , healthy Mumbai

#### **4) STORM WATER DRAIN DEPARTMENT/ WARD WORKS**

- i) Inconvenience regretted
- ii) Working towards a better tomorrow
- iii) Swatch Bharat

**BRIHANMUMBAI MUNICIPAL CORPORATION****No. Ch.E./BM/06181/II Date 05.07.2023****Sub.:-** List of Approved Building Materials updated up to 30.06.2023.

Following brands of building materials have been approved by Ch.E.(B.M.)/Director (E. S.& P.). The brands of the building materials approved and mentioned in the list with the validity given below shall be used. For the materials other than mentioned in the list brands, only ISI marks materials shall be allowed to be used with prior written permission of the engineer, for individual work. The contractors shall distinctly understand that it will not be their prerogative to insist for use of particular make/brand from following list and final selection will have to be done with approval of engineer. The following list of approved building materials may vary and some new category/brand may be added or existing ones may be deleted. The contractor shall use the brand as directed by the engineer.

| Sr. No | Category | Product                | Brand Name if any                   | Manufacturer's Name & Correspondence address                                                                                                      | Contact Details                  | Validity   |
|--------|----------|------------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------|
| 1.     | Cement   | OPC 53 Grade & PPC     | SANGHI                              | M/s. Sanghi Cement Limited, Krishna Commercial Centre, 11, B-Wing, 6-Udyog Nagar, S.V. Road, Near Kamath Club, Goregaon (West), Mumbai- 400 062   | (022)-28713120<br>(0261)-2331019 | 27.07.2023 |
| 2.     | Cement   | OPC 53 Grade PPC       | HATHI                               | M/s. Saurashtra Cement Limited, Gala No. A-1, Ground Floor, Udhog Sadan No. 3, MIDC, Central Road, Andheri (East), Mumbai- 400 093                | (022)-32955567<br>/ 32955557     | 24.09.2023 |
| 3.     | Cement   | OPC 43, 53 Grade & PPC | PERFORMATE, OPTIMATE & DURAMATE     | M/s. Kalburgi Cement Private Limited. 8-2-626, Reliance Majestic, Road No. 10, Banjara Hills, Hyderabad-500034                                    | (022)-40831234                   | 18.03.2024 |
| 4.     | Cement   | OPC 53 Grade & PSC     | PSC & CONCRETE L HD                 | M/s. JSW Cement Limited, JSW Centre, Bandra Kurla Complex, Bandra (E), Mumbai-400051                                                              | Mob.:-9820234395                 | 03.03.2024 |
| 5.     | Cement   | OPC 53 & PPC           | SHREE CEMENT - ROOFON & JUNGROD HAK | M/s. Shree Cement Ltd, One BKC Building, 1110 A, 11TH Floor, C Wing, Plot no. C-66, G Block, Bandra Kurla Complex, Bandra (East), Mumbai- 400 051 | Mob.:-9819623490                 | 22.03.2025 |
| 6.     | Cement   | OPC 53 & PPC           | Coromandel & CSK                    | M/s. The India Cement Ltd, 102, 1 <sup>ST</sup> Floor, Swastik Chambers, Sion-Trombay Road, Chembur (E), Mumbai - 400071.                         | Mob:-9689912705                  | 27.04.2026 |

|     |                                             |                                                                |                                          |                                                                                                                                                           |                                                  |            |
|-----|---------------------------------------------|----------------------------------------------------------------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|------------|
| 7.  | Cement                                      | OPC 53, PPC & Composite Cement                                 | JK LAKSHMI                               | M/s. JK Lakshmi Cement Ltd.,<br>9, Kasturi Building, 3 <sup>RD</sup> Floor, J Tata Road, Mumbai - 400020                                                  | Mob.:-<br>9768109206                             | 01.05.2026 |
| 8.  | GGBS                                        | Ground Granulated Blast Furnace Slag                           | JSW                                      | M/s. JSW Cement Limited,<br>JSW Centre, Bandra Kurla Complex, Bandra (E), Mumbai-400051                                                                   | Mob.:-<br>9819990801                             | 03.03.2024 |
| 9.  | White Cement                                | White Cement, Putty & Others                                   | J K MAXX                                 | M/s. J. K. White Cement Works<br>4TH Floor, Krsna Chambers, Plot no. 11, Galaxy Garden, North Main Road, Koragaon Park, Pune-411001                       | Mob.:-<br>8530332882                             | 22.03.2025 |
| 10. | Reinforcement Protection coating            | Epoxy Reinforcement Bars                                       |                                          | M/s. Eurocoustic Products Ltd. FBEC Divn,<br>PSL Campus, Kachigam (Via Vapi-Guj), Daman, (U.T.)-396210                                                    | 022-<br>66447777 /<br>66447787                   | 09.11.2023 |
| 11. | Reinforcement Protection coating            | Epoxy Reinforcement Bars                                       |                                          | M/s. Ayush Rebar Coating, LS No. 2088, Near Damanganga Paper Mill, Ta-Kaparada, Ambheti, Valsad, Gujrat - 396191                                          | Mob.:-<br>8329092969                             | 30.01.2026 |
| 12. | Reinforcement Protection coating & TMT Bars | TMT & FBE Coated (Fe 500 to Fe550D), FBE Coating to TMT Bars   | HARIOM/ EPOXYSHI ELD                     | M/s. Hariom Ingots & Power Pvt. Ltd.,<br>Plot 59-60, Light Industrial Area, Bhilai, Chhattisgarh-490 026.                                                 | Mob.:-<br>7884055300                             | 15.05.2026 |
| 13. | Reinforcement Bars                          | TMT bars of Grade (Fe415, Fe500, Fe500D)                       | SURYA TMX                                | M/s Surya Ferrous Alloys Private Ltd.<br>117, 1 <sup>ST</sup> Floor, Sky Lark Building, Sector No. 11, Plot No. 63, C.B.D. Belapur, Navi Mumbai- 400614   | (022)-<br>27573081 / 7480 / 7420                 | 08.11.2023 |
| 14. | Reinforcement Bars                          | TMT bars of Grade (Fe415, to Fe550D)                           | SUN TMX QST & MORIYA                     | M/s. Jaideep Metallics & Alloys Pvt. Ltd.,<br>Gut No. 73, 74, 76, 78, 79, 80, 179, 180, Village Lakhmapur, Bhiwandi Wada Road, Taluka Wada, Thane-421303. | (022)-<br>42032003<br>FAX-<br>(022)-<br>42032020 | 08.11.2023 |
| 15. | Reinforcement Bars                          | TMT (Fe415 to Fe550D), FBE Coated Bars & CRS (Fe415 to Fe550D) | ELECTRO TMT PLUS<br><br>ELECTRO CRS GOLD | M/s. Electrotherm India Ltd.,<br>Survey No. 325, NH 8A, Nr. Toll Tax Booth, Samkhiyali, Ta. Bhachhau, Dist. Kutch. Gujrat- India                          | (022)-<br>65201597 / (02717)-<br>660649          | 08.11.2023 |
| 16. | Reinforcement Bars                          | TMT bars of Grade (Fe415, to Fe 550D)                          | GUARDIAN                                 | M/s. Guardian Castings Pvt. Ltd.<br>415, Mahinder Chambers, W.T. Patil Marg, Opp. Dukes Factory, Chembur, Mumbai-400071                                   | (022)-<br>67975145 / 5146                        | 08.11.2023 |



|     |                    |                                                                                                     |          |                                                                                                                                                                                  |                                                  |            |
|-----|--------------------|-----------------------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|------------|
| 17. | Reinforcement Bars | CRS Grade bars (Fe 500 & Fe 500D)                                                                   | GUARDIAN | M/s. Guardian Castings Pvt. Ltd.<br>415, Mahinder Chambers,<br>W.T. Patil Marg, Opp. Dukes<br>Factory, Chembur, Mumbai-<br>400071                                                | (022)-<br>67975145<br>/ 5146                     | 29.09.2025 |
| 18. | Reinforcement Bars | TMT bars of<br>Grade (Fe 500,<br>Fe 500D, Fe<br>550D & CRS)                                         | BHAGWATI | M/s. Bhagwati Steel Cast Pvt.<br>Ltd.,<br>D-101, MIDC, Malegaon,<br>Sinner, Dist-Nashik-422113,<br>Maharashtra                                                                   | 022-<br>40354444<br><br>Fax-<br>40350432         | 14.10.2025 |
| 19. | Reinforcement Bars | TMT bars of<br>Grade Fe 500,<br>Fe 500D, Fe<br>550D & Fe<br>600                                     | BHAGWATI | M/s. Bhagwati Ferro Metal<br>Pvt. Ltd.,<br>A 601, Western Edge,<br>Kanakia Spaces, Opp.<br>Magathane, Bus Depot,<br>Western Express Highway,<br>Borivali (E), Mumbai -<br>400066 | Mob.:-<br>93774829<br>72                         | 31.07.2025 |
| 20. | Reinforcement Bars | TMT bars of<br>Grade (Fe 500,<br>Fe 500D & Fe<br>550D)                                              | REGENCY  | M/s. Regency Ispat Pvt. Ltd.,<br>507, Bharat Chambers,<br>Baroda Street, Iron Market,<br>Carnac Bunder, Mumbai -<br>400009                                                       | (0251)-<br>2703815/<br>98201468<br>15            | 29.09.2023 |
| 21. | Reinforcement Bars | TMT bars of<br>Grade (415 to<br>Fe 550D)                                                            | THANE    | M/s. Thane Steel Limited,<br>14, Steel Yard House, S.T.<br>Road, Carnac Bunder,<br>Mumbai - 400009                                                                               | Mob.:-<br>83560599<br>49                         | 22.08.2024 |
| 22. | Reinforcement Bars | TMT (Fe415 to<br>Fe550D), FBE<br>Coated bars<br>(Fe500 to<br>Fe600) & FBE<br>Coating to<br>TMT bars | CAPTAIN  | M/s. Captain Steel India<br>Limited,<br>10A, Shakespeare Court,<br>21A, Shakespeare Sarani,<br>Kolkata-700017                                                                    | (033)-<br>40112525<br>/ Mob.:-<br>88731250<br>00 | 23.03.2025 |
| 23. | Reinforcement Bars | Non Corrosive<br>SS Rebar of<br>grade SSR 550                                                       | SUNFLAG  | M/s. Sunflag Iron & Steel Co.<br>Ltd.<br>33, Mount Road, Sadar,<br>Nagpur - 440001 (India)                                                                                       | Mob.:-<br>93253602<br>01/<br>93232214<br>81      | 31.10.2024 |
| 24. | Reinforcement Bars | TMT bars of<br>Grade Fe (415<br>to Fe 500D)                                                         | METRO    | M/s. Metro Ispat Pvt. Ltd.,<br>Potia Industrial Estate,<br>3 <sup>RD</sup> Floor, Darukhana, Reay<br>Road, Mumbai - 400010                                                       | Mob.:-<br>98196819<br>61                         | 03.12.2024 |
| 25. | Reinforcement Bars | TMT bars of<br>Grade Fe500,<br>Fe500D,<br>Fe550 &<br>Fe550D                                         | KALIKA   | M/s. Kalika Steel Alloys Pvt.<br>Ltd.,<br>Office No. 412, Shreekanth<br>chambers Premises, Sion<br>Trmobay Road, Chembur,<br>Mumbai - 400071                                     | Mob.:-<br>90499973<br>11                         | 28.03.2025 |
| 26. | Reinforcement Bars | TMT bars of<br>Grade Fe500,<br>Fe500D,<br>Fe550 &<br>Fe550D                                         | KHATU    | M/s. Shri Khatu Shyam<br>Alloys Pvt. Ltd.,<br>Survey no. 148/3, Near Parle<br>Biscuit Company,<br>Village-Kharadpada, Silvasa-                                                   | Mob.:-<br>99307725<br>70                         | 16.06.2025 |

|     |                    |                                                           |                |                                                                                                                                                                      |                              |            |
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|     |                    |                                                           |                | 396230                                                                                                                                                               |                              |            |
| 27. | Reinforcement Bars | TMT bars of Grade Fe500, Fe500D, Fe550 & Fe550D & CRS 500 | SANGAM STEEL   | M/s. SMW ISPAT Pvt. Ltd., C-2, MIDC, Deoli Growth Centre, Deoli, Dist. Wardha-442101. M.S.                                                                           | Mob.:- 9599767110            | 17.05.2026 |
| 28. | Reinforcement Bars | TMT bars of Grade Fe500, Fe500D, Fe550 & Fe550D           | SHIV TMX       | M/s. Shivkrupa Steel & Alloys Pvt. Ltd., Unit No. E-412, 4TH Floor, L & T Seawood, Grand Central, Tower-2, Plot no. R1, Sector 40, Seawood, Navi Mumbai-400706. M.S. | Mob.:- 9890501958            | 30.05.2026 |
| 29. | Structural Steel   | Long Steel, Flat Steel, Structural sections               | RKB            | M/s. RKB Global Ltd., 1 <sup>st</sup> Floor, Sugar House, 93/95 Kazi Sayyed Street, Masjid Station, Mumbai-400003                                                    | Mob.:- 8767536251            | 03.01.2026 |
| 30. | Tiles              | Ceramic & Vitrified Tiles (IS 15622:2006)                 | DAKSHINA MURTI | M/s Akash Ceramic Pvt. Ltd. Complex, 3 <sup>rd</sup> floor, Drive-in cinema road, Ahmedabad-54                                                                       | (079)-26857400/500           | 25.12.2023 |
| 31. | Tiles              | Ceramic & Vitrified Tiles (IS 15622:2006)                 | AMBANI         | M/s. Ambani Vitrified Pvt. Ltd., Survey No.143 P1/P1, Morbi Charadva Road, Unchi Mandal, Morbi, Gujrat-363641.                                                       | Mob.:- 9727723151/9082121550 | 06.01.2026 |
| 32. | Tiles              | Ceramic & Vitrified Tiles (IS 15622:2006)                 | VARMORA        | M/s. Varmora Granito Pvt. Ltd., A-54, 1 <sup>st</sup> Floor, Elite Auto House, Mathuradas Vasanji Road, Andheri-Kurla Road, Andheri (East), Mumbai -                 | (022)-28389790/91/92         | 27.09.2023 |
| 33. | Tiles              | Ceramic & Vitrified Tiles (IS 15622:2006)                 | ORIENT BELL    | M/s. Orient Bell Ltd., Iris House, 16 Business Centre, Nangal Raya, New Delhi- 110046                                                                                | (011)-47119100               | 16.10.2023 |
| 34. | Tiles              | Ceramic & Vitrified Tiles (IS 15622:2006)                 | RAK            | M/s. RAK Ceramics India Pvt. Ltd., 1ST Floor, Carnival House, Opp. Oberoi Mall, Dindoshi Road, Malad East, Mumbai-400063                                             | Mob.:- 9920027828            | 22.02.2024 |
| 35. | Tiles              | Ceramic & Vitrified Tiles IS 15622:2006                   | CREANZA        | M/s. Commander Vitrified Pvt. Ltd., 8-A NH, B/H Landgrace Ceramic, At. Sartanpar, Ta. Wankaner, Morbi, Gujrat-363621                                                 | Mob.:- 9320812511            | 16.02.2024 |
| 36. | Tiles              | Ceramic & Vitrified Tiles IS 15622:2006                   | ZEALTOP        | M/s. Zealtop Granito Pvt. Ltd., Old Ghantu Road, Morbi, Gujrat -363642                                                                                               | (022)-28728750/7585          | 12.06.2024 |

|     |                                  |                                                            |                          |                                                                                                                                                                        |                                                  |            |
|-----|----------------------------------|------------------------------------------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|------------|
| 37. | Tiles                            | Ceramic & Vitrified Tiles<br>IS 15622:2006                 | PRIYAM<br>GRANTILE       | M/s. Solvish Ceramic LLP<br>Survey No. 106/2, Matel<br>Road, Nr. Classy<br>sanitaryware, Wankaner,<br>Morbi, (Gujrat)- 363622                                          | Mob.:-<br>93242325<br>44/<br>98338778<br>21      | 25.10.2024 |
| 38. | Tiles                            | Ceramic & Vitrified Tiles<br>IS 15622:2006                 | SOMANY                   | M/s. Somany Ceramics<br>Limited,<br>401 to 408, Bonanza<br>building, Sahar Plaza,<br>Next to Kohinoor hotel,<br>Andheri-Kurla Road, Andheri<br>(East), Mumbai- 400 059 | Mob.:-<br>75064086<br>96 /<br>(022)-<br>40398300 | 27.02.2025 |
| 39. | Tiles                            | Ceramic & Vitrified Tiles<br>IS 15622:2006                 | AGL                      | M/s. Asian Granito India<br>Ltd.,<br>202, Dev arc, Opp. Iskon<br>temple, S. G. Highway,<br>Ahmadabad – 380 015                                                         | (079)-<br>66125500<br>/698                       | 07.04.2025 |
| 40. | Tiles                            | Ceramic & Vitrified Tiles<br>IS 15622:2006                 | OASIS                    | M/s. Oasis Vitrified Pvt. Ltd.<br>8-A, National Highway,<br>Kandla Road, Morbi-363642,<br>Gujrat.                                                                      | Mob.:-<br>86008696<br>65/79772<br>11718          | 29.09.2025 |
| 41. | Tiles                            | Ceramic & Vitrified Tiles<br>IS 15622:2006                 | SUNHEAR<br>RT<br>CERAMIC | M/s. Sunshine Tiles Co. Pvt.<br>Ltd.<br>101-103, First Floor,<br>Titanium One, Nr. akwan<br>Cross Road, S.G. Highway,<br>Ahmedabad-380054. India                       | Mob.:-<br>93211513<br>14                         | 13.02.2026 |
| 42. | Tiles                            | Ceramic & Vitrified Tiles<br>IS 15622:2006                 | KAJARIA/<br>KEROGRE<br>S | M/s. Kajarria Ceramics<br>Limited,<br>B1 – 307, Boomerang,<br>Chandivali Farm Road, Off<br>Saki Vihar Road, Andheri<br>(East), Mumbai - 400072                         | Mob.:-<br>99877539<br>58                         | 27.04.2026 |
| 43. | Sanitary<br>ware                 | Water Closet<br>/Basin/Urinal<br>Cistern (IS<br>2556:2004) | RAK                      | M/s. RAK Ceramics India Pvt.<br>Ltd.,<br>1ST Floor, Carnival House,<br>Opp. Oberoi Mall, Dindoshi<br>Road, Malad East, Mumbai-<br>400063                               | Mob.:-<br>99200278<br>28                         | 22.02.2024 |
| 44. | Sanitary<br>ware                 | Water Closet<br>/Basin/Urinal<br>Cistern (IS<br>2556:2004) | PRIYAM<br>GRANTILE       | M/s. Solvish Ceramic LLP<br>Survey No. 106/2, Matel<br>Road, Nr. Classy<br>sanitaryware, Wankaner,<br>Morbi, (Gujrat)- 363622                                          | Mob.:-<br>93242325<br>44/<br>98338778<br>21      | 25.10.2024 |
| 45. | Cast Iron<br>Pipes &<br>Fittings | CI Pipes (IS<br>3989:2009)                                 | RPMF                     | M/s. Raj Pattern Makers &<br>Founders Pvt. Ltd.<br>Nagla Kishan Lal, Hathras<br>Road, Agra, Uttarpradesh -<br>282006                                                   | Mob.:-<br>97602832<br>96                         | 20.03.2025 |
| 46. | Cast Iron<br>Pipes &<br>Fittings | CI Pipes (IS<br>3989:2009)                                 | NFL                      | M/s. Nagpur Foundries<br>Limited,<br>N-72, MIDC, Hingana Road,<br>Nagpur – 440 016                                                                                     | Mob.:-<br>98690850<br>07                         | 07.05.2026 |
| 47. | RCC pipes                        | NP3 & NP4<br>class<br>(450 mm -                            | ACPPL                    | M/s Aadit Concrete Products<br>Pvt. Ltd.<br>80/85, Om Laxmi Niwas,                                                                                                     | Mob.-<br>95525<br>29191                          | 14.03.2024 |



|     |                        |                                                                                               |                 |                                                                                                                                                 |                                |            |
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|     |                        | 1800 mm)                                                                                      |                 | Prabhat Main Road, Near Royalty Hotel, Erandwane, Pune-411004.                                                                                  |                                |            |
| 48. | RCC pipes              | NP3 & NP4 class (400 mm - 1800 mm)                                                            | POONA CONCRET E | M/s. The Poona Concrete Products Co. 996, Navi Peth, Abhinav Apartment, Pune-411030                                                             | Mob.:- 99201774 56             | 14.04.2024 |
| 49. | RCC pipes              | 1) NP2 class (150 mm - 300 mm)<br>2) NP3 & NP4 class (150 mm -1800 mm)                        | PRANALI         | M/s Pranali Cement Pipes Pvt. Ltd, 311,Kesar Krupa CHS Ltd., Above Saraswat Bank Ltd., Chandavarkar Road, Borivali(w), Mumbai-400092            | Mob.:- 93246226 69             | 15.03.2024 |
| 50. | RCC pipes              | 1) NP2 class (100 mm - 600 mm)<br>2) NP3 & NP4 class (150 mm -1200 mm)                        | SAGAR SPUN PIPE | M/s. Sagar Spun Pipes, Plot No. C-9, MIDC Industrial area, Waluj, Aurangabad – 431136                                                           | Mob.:- 98222339 99             | 04.06.2024 |
| 51. | RCC pipes              | NP2 & NP3 class (150 mm - 1800 mm)                                                            | PAWAN           | M/s. Pawan Concrete, Room No. 4, Obhan Niwas, Near Nav Bharat School, N. S. Road, Mulund (West), Mumbai – 400 080                               | Mob.- 77385458 29/ 98202555 07 | 20.06.2025 |
| 52. | RCC pipes              | NP3 & NP4 class (300 mm - 1800 mm)                                                            | SPPPL           | M/s. Siddhivinayak Precast Pipes Pvt. Ltd, Arihant heights, Plot 76, Sec-25, Near Gyan Prabhodhini School, Pradhikaran, Nigadi, Pune – 411 044. | (020)- 27651888                | 22.03.2025 |
| 53. | RCC pipes              | NP2 (700 - 1800 mm), NP3 (300 - 2400 mm), NP4 (300 - 2000 mm) & Jacking Pipes (600 - 1200 mm) | GAMBHIR         | M/s. Gambhir Concrete Products, B-301, Atelier, Rustomjee Urbania, Majiwada, Thane-400601                                                       | Mob.:- 90042674 20             | 13.02.2026 |
| 54. | RCC pipes              | NP2 (150 - 1200 mm), NP3 & NP4 (250 - 1800 mm)                                                | UNICEM          | M/s Unicem vibro cast pipe Industries 16,4th floor,Highway Tower, Pune-Mumbai Road, Chindawad Pune-411019                                       | Mob.:- 99229993 23             | 01.05.2026 |
| 55. | Glazed Stoneware Pipes | 100mm – 300mm                                                                                 | KRISHNA         | M/s. Krishna Industries At. Kotadi (Khanusa), Ta, Vijapur, Dist. Mehasana, Gujrat 382870                                                        | Mob.:- 98690850 07             | 07.05.2026 |
| 56. | Single Stack System    | HDPE Single stack system                                                                      | GEBERIT         | Geberit Plumbing Technology India Pvt. Ltd. 305, B-Wing, Dynatsy Bussiness park, Andheri Kurla Road, Andheri (E) Mumbai 400059.                 | (080) – 23376127 /2357061 2    | 21.08.2025 |

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|-----|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|------------|
| 57. | CPVC<br><br>SWR,<br><br>uPVC &<br>PVC Pipes                               | (i) CPVC pipes<br>IS 15778 and<br>CPVC fitting<br>IS7834<br>(ii) UPVC SWR<br>Pipes IS<br>13592:1992 &<br>Fittings<br>14735:1999<br>(iii) Potables<br>water supply<br>Pipes IS<br>4985:2000<br>(iv) uPVC pipes      | TRUFLO<br>BY<br>HINDWAR<br>E                                                    | M/s. HSIL Limited,<br>Unit 501 & 504, Block-A,<br>"The Platina",<br><br>Survey No. 136, Gachibowli-<br>Miyapur Road,<br><br>Gachibowli, Hyderabad,<br>Telangana- 500032 | (040)-<br>66288000<br>Mob.:-<br>98983489<br>83    | 26.03.2025 |
| 58. | SWR                                                                       | UPVC SWR<br>Pipes IS<br>13592:1992 &<br>Fittings<br>14735:1999                                                                                                                                                     | BIRLA<br>AEROCON                                                                | M/s. HIL Limited,<br>L7 Floor, SLN Terminus, Sy.<br>No. 133, Beside Botanical<br>Garden, Gachibowli,<br>Hyderabad- 500 032,<br>Telangana.                               | Mob.:-<br>86000040<br>36                          | 29.03.2024 |
| 59. | PPR Pipes &<br>Fittings                                                   | PPR Pipes &<br>Fittings (IS<br>15801:2008<br>for Hot & Cold<br>water supply)                                                                                                                                       | KPT<br>GREEN<br>THERM                                                           | M/s. Kanha Plastics Pvt. Ltd.,<br>Unit no. 306, PP Trade<br>Center, Plot no. P-1, Netaji<br>Subhash Place, New Delhi-<br>110035                                         | Mob.:-<br>96340079<br>85/<br>96349044<br>722      | 16.08.2023 |
| 60. | DWC                                                                       | DWC Pipes &<br>Fittings IS<br>16098:2016                                                                                                                                                                           | D-REX                                                                           | M/s. Astral Poly Technik<br>Limited<br>207/1, Astral House, B/h<br>Rajpath Club, Off. S. G.<br>Highway, Ahmedabad-<br>380059                                            | Mob.:-<br>81087838<br>49                          | 29.02.2024 |
| 61. | Low Noise<br>SWR<br>UD Pipes,<br>uPVC<br>Conduit<br>Pipe & PE<br>Chambers | (i) Low Noise<br>SWR Pipes<br>(ii) Underground<br>Drainage Pipes<br>IS16098: 2003<br>(iii) PE<br>Inspection<br>chambers<br>(iv) Conduit<br>Pipes                                                                   | SILENCIO<br>/<br>DRAINPRO<br><br>FOAMCOR<br>E<br>DRAINHUL<br>K<br>WIREGUA<br>RD | M/s. Astral Poly Technik<br>Limited,<br>207/1, Astral House, B/h<br>Rajpath Club, Off. S. G.<br>Highway, Ahmedabad-<br>380059                                           | (022)-<br>28389744<br>/55                         | 01.08.2024 |
| 62. | SWR,<br><br>UPVC,<br><br>CPVC, &<br><br>UD Pipes                          | i) SWR Pipes<br>IS 13592:1992<br>ii)UPVC<br>injection<br>moldings<br>fittings IS<br>14735:1999<br>iii)CPVC pipes<br>IS 15778 and<br>CPVC fitting IS<br>7834<br>iv) UPVC Pipes<br>IS 4985:2000<br>v)<br>Underground | ULTRAFIT<br><br>FLOWGUA<br>RD PLUS<br><br>AQUAFIT<br>FOAMFIT                    | M/s. Prince pipes & Fittings<br>Pvt. Ltd,<br>The Ruby, 8 <sup>th</sup> floor, 29,<br>Senapati Bapat Marg, (Tulsi<br>pipe road), Dadar (W),<br>Mumbai- 400 028           | (022)-<br>66022222<br><br>Fax-(022)-<br>6602 2220 | 04.04.2025 |

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|     |                                          | Drainage Pipes<br>IS 16098:<br>2003<br>vi) UPVC Pipe<br>for potable<br>water                                                                                                                  |          |                                                                                                                                                                                  |                                               |            |
| 63. | SWR,<br>UPVC,<br>CPVC                    | i) UPVC SWR<br>Pipes IS<br>13592:1992 &<br>fittings<br>IS14735:1999<br>ii)CPVC pipes<br>IS 15778 and<br>CPVC fitting<br>iv) UPVC Pipes<br>IS4985:2000<br>v) UPVC Pipe<br>for potable<br>water | PARAS    | M/s. Bothara Agro<br>Equipments Pvt. Ltd.<br>Bothara Compound,<br>Industrial Estate,<br>Nagar-Pune Road,<br>Ahmednagar-414006                                                    | Mob.:<br>-86008696<br>65                      | 24.08.2025 |
| 64. | SWR,<br>UPVC,<br>CPVC                    | i) UPVC SWR<br>Pipes IS<br>13592:1992 &<br>fittings<br>IS14735:1999<br>ii)CPVC pipes<br>IS 15778 and<br>CPVC fitting<br>iv) UPVC Pipes<br>IS 4985:2000<br>& Fittings                          | FLOWKEM  | M/s. Flowkem Poly Plast Pvt.<br>Ltd.<br>5, Shukun Hebitet, 3 <sup>rd</sup> Floor,<br>Prerna Park Soc. Nr. L. G.<br>Corner, Ramji Mandir Road,<br>Maninagar, Ahmedabad-<br>380008 | Mob.:<br>-99873750<br>72                      | 13.11.2025 |
| 65. | Polypropylene<br>Pipes                   | PPR Pipes                                                                                                                                                                                     | GREENFIT | M/s. Prince pipes & Fittings<br>Pvt. Ltd,<br>The Ruby, 8 <sup>th</sup> floor, 29,<br>Senapati Bapat Marg, (Tulsi<br>pipe road), Dadar (W),<br>Mumbai- 400 028                    | (022)-<br>66022222<br>Fax-(022)-<br>6602 2220 | 04.04.2025 |
| 66. | High<br>Density<br>Polyethylene<br>Pipes | DWC Pipes                                                                                                                                                                                     | CORFIT   | M/s. Prince pipes & Fittings<br>Pvt. Ltd,<br>The Ruby, 8 <sup>th</sup> floor, 29,<br>Senapati Bapat Marg, (Tulsi<br>pipe road), Dadar (W),<br>Mumbai- 400 028                    | (022)-<br>66022222<br>Fax-(022)-<br>6602 2220 | 04.04.2025 |
| 67. | High<br>Density<br>Polyethylene<br>Pipes | HDPE/PE/<br>PVC O/DWC                                                                                                                                                                         | DELTA    | M/s. Delta Irrigation LLP<br>Plot F ½, Opp Kirlskar Oil<br>Engines, Kagal Five Star<br>MIDC, Kagal, Kolhapur –<br>416236. M.S.                                                   | Mob.:<br>-77700052<br>57                      | 30.01.2026 |
| 68. | High<br>Density<br>Polyethylene<br>Pipes | DWC for<br>Sewerage &<br>underground<br>cable, HDPE<br>ducts                                                                                                                                  | GEMINI   | M/s. Tirupati Plastomatics<br>Pvt. Ltd.<br>B-141-1, Road no. 9-D, V.K.I.<br>Area,<br>Jaipur-302013, Rajasthan                                                                    | Mob.:<br>-98202969<br>72                      | 10.05.2026 |
| 69. | Polyethylene<br>tank                     | Water Storage<br>Tank                                                                                                                                                                         | STOREFIT | M/s. Prince pipes & Fittings<br>Pvt. Ltd,<br>The Ruby, 8 <sup>th</sup> floor, 29,                                                                                                | (022)-<br>66022222<br>Fax-(022)-              | 04.04.2025 |

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|-----|-----------|------------------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------|
|     |           |                        |              | Senapati Bapat Marg, (Tulsi pipe road), Dadar (W), Mumbai- 400 028                                                                             | 6602 2220                                |            |
| 70. | Chemicals | Construction Chemicals | SUNANDA      | M/s. Sunanda Speciality Coatings Pvt. Ltd, Satyadham Road no. 2, Sion (E), Mumbai – 400 022                                                    | (022)-24034130                           | 17.12.2023 |
| 71. | Chemicals | Construction Chemicals | CHRYSO       | M/s. CHRYSO India Private Limited<br>Plot No. D-30/7, TTC Industrial Area, MIDC Turbhe, Navi Mumbai-400705                                     | Mob.:-9594948858                         | 16.08.2023 |
| 72. | Chemicals | Construction Chemicals | KRYTON       | M/s. Kryton Buildmat Co. Pvt. Ltd.<br>136-137, Centrum Plaza, Golf Course Road, Sector 53, Gurugram, Haryana-122002                            |                                          | 10.11.2023 |
| 73. | Chemicals | Construction Chemicals | SHREE PRIMIX | M/s. Shree Premix Industries,<br>104, Corporate Avenue, Near Udyog Bhavan, Sonawala Lane, Goregaon (East), Mumbai- 400063                      | (022)-26853022 / 9821541867 / 7045950921 | 11.11.2023 |
| 74. | Chemicals | Construction Chemicals | PERMA        | M/s Perma Construction Aids Pvt. Ltd.<br>611/612 Nirmal Corporate Centre, Mulund (W) Mumbai-400080                                             | (022)-25903008                           | 25.12.2023 |
| 75. | Chemicals | Construction Chemicals | FAIRMATE     | M/s. Fair Mate Chemicals Pvt. Ltd.<br>8/1, Sai Sudha, Arunoday Soc. Alkapuri, Vadodara (Gujrat)- 390007                                        | (0265)-2358173 / 2331193                 | 22.03.2024 |
| 76. | Chemicals | Construction Chemicals | PAR          | M/s. Par Specialty Polymers Pvt. Ltd.<br>Unit No-309, Turbhe Industrial Park, Plot no. C-56/1, TTC Industrial Area, Turbhe, Navi Mumbai-400705 | Mob.:-9619515566                         | 18.05.2024 |
| 77. | Chemicals | Construction Chemicals |              | M/s. Tiki Tar Danosa India Pvt. Ltd.<br>Tiki tar state, Village Road, Bhandup (W) Mumbai- 078                                                  | (022)-41266699                           | 06.06.2024 |
| 78. | Chemicals | Construction Chemicals |              | M/s. Rheoplast Technology Pvt. Ltd.,<br>711, A Wing, Mainframe-1, Royal Palm, 169 Aarey Colony. Goregaon (E), Mumbai-400065                    | Mob.:-8080444030                         | 10.10.2024 |
| 79. | Chemicals | Construction Chemicals |              | M/s. Fosroc Chemicals (India) Pvt. Ltd.,<br>Embassy Point, No. 150, 2ND Floor,                                                                 | Mob.:-8433973413                         | 27.02.2025 |

|     |                     |                                   |               |                                                                                                                                             |                                                     |            |
|-----|---------------------|-----------------------------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|------------|
|     |                     |                                   |               | Infantry Road, Bengaluru – 560001                                                                                                           |                                                     |            |
| 80. | Chemicals           | Construction Chemicals            |               | M/s Krishna Conchem Product Ltd.<br>Unit-2,Bldg.6,Sect.3,<br>Millennium Business Park,<br>Mahape, Navi Mumbai-400710                        | (022)-32986329<br>/<br>27782923<br>/<br>09324924398 | 21.09.2024 |
| 81. | Chemicals           | Construction Chemicals            | MCON          | M/s. MCON RASAYAN PVT. LTD.<br>Gala No. 6, Bardanwala Estate, Bandiwali Hill road, Jogeshwari (W), Mumbai-400102                            | (022)-26790031                                      | 10.02.2025 |
| 82. | Chemicals           | Construction Chemicals            | ---           | M/s. Zydex Industries Private Limited,<br>Zydex House, 61, Gotri-Sevasi Road, Gotri, Vadodara -390021, Gujrat                               | (0265)-3312 0000<br>Mob.:-9819412355                | 24.01.2026 |
| 83. | Chemicals           | Construction Chemicals            | MYK           | M/s. MYK Arment Pvt. Ltd.<br>8-2-703/A, 3 <sup>rd</sup> Floor, Leela Gopal Towers, Raod no. 12, Banjara Hills, Hyderabad-500034             | Mob.:-9100846678                                    | 15.09.2025 |
| 84. | Chemicals           | Construction Chemicals            | SUNLIGHT      | M/s. Sunlight Corporation,<br>Shed No. C-1-2605/1, Phase III, GIDC, Vapi – 396195                                                           | Mob.:-7208922332                                    | 15.02.2026 |
| 85. | Chemicals           | Construction Chemicals            | ---           | M/s. Clean Coats Pvt. Ltd.<br>K30/1, Additional Ambarnath Ind. Area, MIDC, Anand Nagar, Ambarnath (E), Thane – 421506, M.S.                 | Mob.:-8657545986                                    | 29.06.2026 |
| 86. | AAC Block           | AAC Block                         | BIRLA AEROCON | M/s. HIL Limited,<br>L7 Floor, SLN Terminus, Sy. No. 133, Beside Botanical Garden, Gachibowli, Hyderabad- 500 032, Telangana                | Mob.:-8600004036                                    | 29.03.2024 |
| 87. | AAC Block           | AAC Block & Block Jointing Mortar | BIGBLOC       | M/s. Bigbloc Construction Limited,<br>202, 2 <sup>ND</sup> Floor, A Wing, Corporate Avenue, Sonawala Road, Goregaon (East), Mumbai – 400063 | Mob.:-9773203979                                    | 30.01.2026 |
| 88. | AAC Block           | AAC Block & Block Jointing Mortar | EMPEROS       | M/s. Emperos,<br>Survey No. 22/3, Devli Village, Near Padgha, Bhiwandi, Thane – 421101                                                      | Mob.:-9819176608                                    | 27.04.2026 |
| 89. | AAC Block           | AAC Block & Block Jointing Mortar | GRUNTEC       | M/s. Constro Solution Limited,<br>1/31, Teachers Colony, Bandra (East), Mumbai – 400051                                                     | Mob.:-9599767110                                    | 08.05.2026 |
| 90. | Ready to use Mortar | Ready Mix Mortar &                | MAGICRETE     | M/s. Magicrete Building Solutions Pvt. Ltd.                                                                                                 | Mob.:-99704652                                      | 22.06.2024 |



|      |                        |                                                   |                                        |                                                                                                                                          |                                      |            |
|------|------------------------|---------------------------------------------------|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------------|
|      | & AAC Block            | Block Jointing Mortar                             |                                        | 702, 22 Business Point, S. V. Road, Andheri (West), Mumbai-400058                                                                        | 15                                   |            |
| 91.  | Ready to use Mortar    | Ready Mix Mortar & Block Jointing Mortar          | KANERIA                                | M/s. Kaneria Plast Pvt. Ltd. 6TH Floor, Rohan Arcade, Off W.E.Highway, Dattani Park, Thakur Village, Kandivali (E), Mumbai- 400101       | Mob.:- 82918924 01/ 82918924 14      | 25.10.2024 |
| 92.  | Paints                 | External and Internal Paints                      | PEARL/ COLORTE X/ KLASIC/ UNO/ INSPIRA | M/s. Godavari paints Pvt. Ltd., Tulsiram Gupta Mills Estate, Darukhana, Reay Road, Mumbai 400010                                         | (022)- 23723227                      | 05.02.2024 |
| 93.  | Paints                 | External and Internal Paints                      | SNOWCE M                               | M/s. Snowcem Paints Private Limited, 702 A, Pranik Chambers, Saki Vihar Road, Andheri (E), Mumbai - 400072                               | (022)- 28573551 / 28572700           | 25.10.2023 |
| 94.  | Paints                 | External and Internal Paints                      |                                        | M/s. Advance Paints Pvt. Ltd. Advance House, Plot no. A, Ark Industrial Compound, Makwana Road, Marol Naka, Andheri (E), Mumbai - 400059 | (022)- 28590162 /63/64               | 16.12.2023 |
| 95.  | Paints                 | External and Internal Paints                      | FAIRCOAT, FAIRTEX, FAIRSHINE, FAIRLOOK | M/s. Hindusthan Paints and products, 11-A New Empire industrial Estate, Kondivita road Andheri(E), Mumbai 400059                         | (022)- 28223341                      | 06.05.2024 |
| 96.  | Paints                 | External Paints                                   | --                                     | M/s. Dooall Corpro India Pvt. Ltd. 315, Bhaveshwar Arcade Annexe, LBS Road, Ghatkopar (West)-400086                                      | Mob.:- 98208744 10                   | 22.08.2024 |
| 97.  | Paints                 | External and Internal Paints                      | --                                     | M/s. Excel India Protective Paints Pvt. Ltd. A-33 & 34, MIDC Kulgaon, Badlapur, Thane-421503                                             | Mob.:- 98922270 39 (0251)- 2695520   | 20.10.2024 |
| 98.  | Paints                 | External and Internal Paints                      | MCON                                   | M/s. MCON RASAYAN PVT. LTD. Gala No. 6, Bardanwala Estate, Bandiwali Hill road, Jogeshwari (W), Mumbai-400102                            | (022)- 26790031                      | 31.07.2025 |
| 99.  | Paints                 | External and Internal Paints                      | --                                     | M/s. Zydex Industries Private Limited, Zydex House, 61, Gotri-Sevasi Road, Gotri, Vadodara -390021, Gujrat                               | (0265)- 3312 0000 Mob.:- 98194 12355 | 25.12.2025 |
| 100. | SFRC Cover with Frames | Manhole cover with frames and Grating with Frames | KK                                     | M/s. K. K. Manhole & Grating Co. Plot. No. A-47 & 119/120/129, STICE, Shirdi Road, Sinner, Nashik.                                       | (0253) - 2340556                     | 20.04.2023 |

|      |                                             |                                                                                    |              |                                                                                                                                                                       |                                         |            |
|------|---------------------------------------------|------------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|------------|
|      |                                             |                                                                                    |              | Maharashtra – 422103.                                                                                                                                                 |                                         |            |
| 101. | SFRC Cover with Frames                      | Manhole cover with frames and Grating with Frames                                  | VIKRANT      | M/s. Vikrant Reinforced Products<br>Pipewala Compound, Opp Unionbank, Near Chembur Police station, Chembur, Mumbai- 400074                                            | Mob.:- 9869250844                       | 06.09.2024 |
| 102. | SFRC Cover with Frames                      | Manhole cover with frames and Grating with Frames                                  | MTC          | M/s. Majisa Trading Company,<br>403, Soham May Flower CHS Ltd, Mira-Bhayander Road, Mira Road (East), Mumbai – 401107. M. S.                                          | Mob.:- 9892922258                       | 10.01.2026 |
| 103. | Ductile iron Covers with Frames             | DI Manhole covers with Frame and Gratings                                          | PLASMA       | M/s Plasma Alloys Pvt. Ltd. Survey<br>No.196,N.H.27,Gondal Road Veraval (Shapar) Dist-Rajkot-360 024 Gujrat                                                           | (02827)-253766<br>Fax-(02827)-253966    | 29.11.2024 |
| 104. | Ductile iron Covers with Frames             | DI Manhole covers with Frame and Gratings                                          | NEXUS        | M/s. Nexus Cast<br>S. R. No. 128, Plot 1, Gaurav Industrial area, Opp. 132 KV Substation, Nr. Sardar Chowk, Rajkot - 360024                                           | Mob.:- 7021140973                       | 01.11.2024 |
| 105. | Ductile iron & Cast iron Covers with Frames | DI & CI Manhole covers with Frame and Gratings                                     | RPMF         | M/s. Raj Pattern Makers & Founders Pvt. Ltd.<br>Nagla Kishan Lal, Hathras Road, Agra, Uttarpradesh - 282006                                                           | Mob.:- 9760283296                       | 20.03.2025 |
| 106. | Ductile iron & Cast iron Covers with Frames | DI & CI Manhole covers with Frame and Gratings                                     | NFL          | M/s. Nagpur Foundries Limited,<br>N-72, MIDC, Hingana Road, Nagpur – 440 016                                                                                          | Mob.:- 9869085007                       | 07.05.2026 |
| 107. | Door Shutter & Frame                        | FRP Door Shutter & Frame                                                           | PERMAFIN ISH | M/s. Advance FRP,<br>4, Avinash Bhuvan, Next to Gujarati School,Kankuwadi Dixit Cross Road no. 1, Vile Parle (E), Mumbai- 400057                                      | (022)-26175636 / 26122376               | 07.10.2024 |
| 108. | Door Shutter & Frame, Plywood, Block Board, | Flush, Panel, Fire retardant Wooden Doors, Plywood, Block board, Laminates, Veneer | KALPTARU     | M/s. V. K. Patel & Co.,<br>G 2, 3, & 4, Mahesh Darshan, Near Makhmali Talao, old Agra Road, Thane (West) – 400601                                                     | 8291973109/ (022) 25431548 / 9619935955 | 13.05.2024 |
| 109. | Door Shutter & Frame, Plywood, Block Board, | Flush wooden Doors, Plywood, Block board,                                          | REGENCY      | M/s Regal Plywood Industries (P) Ltd.<br>C/o, M/s. Regency Wood Panel Pvt. Ltd. 106, 1st Floor, Palm Beach Galleria, Plot no. 17, Sec-19D, Vashi, Navi Mumbai-400703. | Mob.:- 9820811175/ 9619361149           | 27.02.2025 |
| 110. | Furniture                                   | Chair, Table & Cupboard                                                            | ADARSH       | M/s. Adarsh Infrainterio Pvt. Ltd.,<br>Unit 104, Tradecorner premises, Sakinaka Junction,                                                                             | Mob.:- 9702229852                       | 24.08.2025 |

|      |                           |                                                               |              |                                                                                                                                                               |                             |            |
|------|---------------------------|---------------------------------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------|
|      |                           |                                                               |              | Sakivihar Road, Andheri (east), Mumbai-400072                                                                                                                 |                             |            |
| 111. | Fire Door & Non Fire Door | Fire Door & Non Fire Door                                     | HORMANN      | M/s. Shakti Hormann Pvt. Ltd.<br>H. No. 2-67/1, (Survey No. 188, 198). Gagillapur, Dundigal Municipality, Mandal, Dist-Medchal (Malkajgiri), Telangana-500043 | +(40)-27840394 /5           | 30.09.2024 |
| 112. | Fire Door & Non Fire Door | Wooden Fire Door & Non Fire Door                              | TUFWUD       | M/s. Tufwud Doors and Accessories Private Limited, 111, Diamond Harbour Road, Kolkata – 700063                                                                | Mob.:- 83350604 61          | 24.08.2025 |
| 113. | Fire Door & Non Fire Door | Wooden & Metallic Fire Door & Non Fire Door                   | ROYAL AIRCON | M/s. Royal Aircon Pvt. Ltd., 2/2, Jai Bhavani Marg, Near Ashapura Temple, Mulund Colony, Mulund (W), Mumbai – 400082. Maharashtra                             | Mob.:- 79773371 15          | 08.11.2025 |
| 114. | Fire Door & Non Fire Door | Wooden & Metallic Fire Door & Non Fire Door                   | BHAWANI FIRE | M/s. Bhawani Fire Protection Pvt. Ltd., Plot No. 18, 1 <sup>ST</sup> Floor, above Central bank of India, Rajendra Nagar, Sahibabad, Ghaziabad- 201005         | Mob.:- 95608187 00          | 15.02.2026 |
| 115. | Acoustic & other          | Non woven acoustic & others acoustic product                  | INDOSONIC    | M/s. Indecor Slides (I) Pvt. Ltd., 404, Hill View Industrial Estate, Off L.B.S. Road, Amrut Nagar, Ghatkopar (West)- 400086                                   | Mob.:- 98678629 87          | 15.09.2025 |
| 116. | Acoustic & other          | Non woven acoustic, Metals False ceiling & False ceiling grid | TECHNO       | M/s. Techno Ceiling Products, 101, Shah Nahar Estate, Dr. E. Moses Road, Worli, Mumbai – 400 018                                                              | Mob.:- 98200 81674          | 07.12.2025 |
| 117. | Cladding                  | Aluminium Composite Cladding (ACP)                            | ALUDECOR     | M/s. Aludecor Lamination Pvt. Ltd., Suit no. 52, 5TH floor, R.N. Mukherjee Road, Kolkata-700001, West Bengal                                                  | (022)-26866633 / 98675730 5 | 16.08.2023 |
| 118. | Cladding                  | Aluminium Composite Cladding (ACP)                            | EUROBOND     | M/s. Euro Panel Products Pvt. Ltd., 702, Aravali Business Centre, Ramdas Sutrale Road, Borivali (West), Mumbai-400092                                         | (022)-29686500              | 11.11.2023 |
| 119. | Cladding                  | Aluminium Composite Cladding (ACP)                            | SUPERBOND    | M/s. Keybond Industries LLP, 17, Super House, Amar Brass Ind. Estate, CST Road, Santacruz (East), Mumbai-400092                                               | (022)-66758380 /8359        | 27.07.2024 |



|      |                      |                                                                              |             |                                                                                                                                                     |                                    |            |
|------|----------------------|------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|------------|
| 120. | Cladding             | Aluminium Composite Cladding (ACP), High Pressure laminate (HPL) & Laminates | VIRGO       | M/s. Virgo Laminates Limited, 406, 4 <sup>TH</sup> Floor, Rectangle No. 1, Behind Select City Mall, District Centre, Saket, New Delhi-110017        | (011)-47422222<br>Mob.:-9854799422 | 13.11.2025 |
| 121. | Precast RCC products | Precast RCC Drain, Box Culverts & Retaining wall                             | FUJI        | M/s Fuji Silvertch Concrete Pvt. Ltd. 4TH Floor, House no. 5, Magnet Corporate Park, Nr. Sola Flyover, SG Road, Thaltej, Ahmedabad- 380054, Gujrat. | (079)-40210000 / 9833711834        | 01.11.2023 |
| 122. | Precast RCC products | Manhole Covers, Precast RCC Drain                                            | SUPER       | M/S Super Cement Article Plot. No. B-49, Behind Union Bank, NICE Area, Satpur MIDC, Nashik-422007                                                   | Mob.:-9869032374 / 9869085007      | 27.05.2024 |
| 123. | Precast RCC products | Precast RCC Drain, Box Culverts & Retaining wall                             | SPPPL       | M/s. Siddhivinayak Precast Pipes Pvt. Ltd, Arihant heights, Plot 76, Sec-25, Near Gyan Prabhodhini School, Pradhikaran, Nigadi, Pune - 411 044.     | (020)-27651888                     | 22.03.2025 |
| 124. | Glass                | Float, Mirror,                                                               | GOLD PLUS   | M/s. Gold Plus Glass Industry Limited, 4TH Floo, Kings Mall, Sector-10, Rohoni, New Delhi-110085                                                    | Mob.:-9730041833                   | 04.04.2025 |
| 125. | Glass                | Float, Mirror, Fire rated glass                                              | SCHOTT & FG | M/s. FG Glass Industries Pvt. Ltd., A-1204, Naman Midtown, Senapati Bapat Marg, Prabhadevi (W), Mumbai - 400013                                     | Mob:-9321813481                    | 19.06.2026 |
| 126. | Others               | Gypsum plaster/bond/ Wall putty/ False ceiling/Partition sections            | WIP         | M/s. Western Infrabuild Products LLP A-592, TTC Industrial Area, MIDC Mahape, Navi Mumbai-400701                                                    | Mob.:-7498196768                   | 23.03.2025 |

**Note:** This list of approved building materials supersedes the earlier list of approved building materials. All the conditions mentioned in the letter of approval shall be scrupulously adhered to by the site engineering staff. In case of ISI marked brands, the latest valid BIS endorsement shall be insisted from the manufacturer. The valid list of approved Building Materials at the time of execution of works can be obtained from Dy. Ch. Eng. (B.M.) City's office OR MCGM portal under tab- Services --> Citizen Charters --> Chief Eng Building Maintenance OR under tab 'About Us--> Wards/Departments --> Chief Eng Building Maintenance--> Docs.

**SD/-**  
**04.07.2023**  
**Dy. Ch. Eng. (B.M.) City**

**MUNICIPAL CORPORATION OF GREATER MUMBAI**

No. CHE /BM/019919/II dated 07.01.2019.

**CIRCULAR**

Sub:- Corrections in parameters i.e. similar work experience criteria for major structural repairs / maintenance works & reconstruction / new construction building works undertaken through all M.C.G.M. departments and other corrections in para of curable and non-curable defects and the Header Data of the S.B.D.

Ref:- (1) MGC/ F/8058 dated 03.01.2019

The following amendments / corrections are proposed to be made in the respective paras of the S.B.D. document for **"works of carrying out major structural repairs / maintenance works and reconstruction / new construction building works"** undertaken through all M.C.G.M. departments as per approval of Hon'ble M.C. u/no.MGC/ F/8058 dated 03.01.2019.

(I) **Para-Clause 1.3 : Similar experience (for works of carrying out major structural repairs / maintenance works and reconstruction / new construction building works)**

| Sr. No. | As per SBD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Proposed Amendment                                                                                                                                                                                                                                                                                                     |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.      | For assessing the technical capacity of "Regular, Routine and Maintenance works; Similar work shall mean, the completed or on-going works in Building Construction OR Building Maintenance such as repairs OR construction / repairs of asphalt / concrete roads OR laying / rehabilitation of sewer lines along with allied components OR laying / rehabilitation of water pipe lines in Cast Iron / M.S. Pipes / HDPE/MDPE pipes OR repairs/ maintenance / construction of culverts over nullah. | <b>"For assessing the technical capacity of major structural repairs / maintenance works and reconstruction / new construction works; similar work shall mean, the completed or on-going works in Building Construction OR Building Maintenance such as repairs / retrofitting / upgradation/ structural repairs".</b> |
| 2.      | As per Circular No.MDD/9945 of 30.01.2017 para "D", the 'Similar Experience' for 'Regular Routine and Maintenance works' shall mean " <i>any work in any department" as mentioned hereinafter.</i>                                                                                                                                                                                                                                                                                                 | <b>Not to be insisted for "major structural repairs / maintenance works and reconstruction / new construction building works".</b>                                                                                                                                                                                     |

(II) **Para-Curable and Non-Curable defects**

|      | <b>As per SBD</b>                                                                                                                                                                                                                                                                                                                                         | <b>Proposed Amendment</b>                                                                                                                                                                                                                                                                                                                                                                                    |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (i)  | <u>Curable Defect shall mean shortfalls in submission such as :</u>                                                                                                                                                                                                                                                                                       | <u>Curable Defect shall mean shortfalls in submission such as :</u>                                                                                                                                                                                                                                                                                                                                          |
| a)   | Non-submission of following documents<br>(i) Valid Registration Certificate<br>(ii) Valid Bank Solvency<br>(iii) Sales Tax Registration Certificate (VAT)<br>(iv) Certified copies of PAN documents and photographs of individuals, owners etc.<br>(v) Partnership Deed and any other documents.<br>(vi) Undertaking as mentioned in the tender document. | a) Non-submission of following documents<br>(i) Valid Registration Certificate<br>(ii) Valid Bank Solvency<br>(iii) Sales Tax Registration Certificate (VAT)/Goods and Service Tax Registration certificate.<br>(iv) Certified copies of PAN documents and photographs of individuals, owners etc.<br>(v) Partnership Deed and any other documents.<br>(vi) Undertaking as mentioned in the tender document. |
|      | b) Wrong calculation of Bid Capacity                                                                                                                                                                                                                                                                                                                      | b) - Deleted -                                                                                                                                                                                                                                                                                                                                                                                               |
|      | c) No proper submission of experience certificates and other documents, etc.                                                                                                                                                                                                                                                                              | c) - Deleted -                                                                                                                                                                                                                                                                                                                                                                                               |
| (ii) | <u>Non-Curable Defect shall mean</u>                                                                                                                                                                                                                                                                                                                      | ii) <u>Non-Curable Defect shall mean</u>                                                                                                                                                                                                                                                                                                                                                                     |
| a)   | Inadequate submission of EMD/ ASD amount                                                                                                                                                                                                                                                                                                                  | a) Inadequate submission of EMD/ ASD amount                                                                                                                                                                                                                                                                                                                                                                  |
| b)   | Inadequacy of technical or financial capacity with respect to eligibility criteria as stipulated in the tender.                                                                                                                                                                                                                                           | b) Inadequacy of technical or financial capacity with respect to eligibility criteria as stipulated in the tender.                                                                                                                                                                                                                                                                                           |
|      |                                                                                                                                                                                                                                                                                                                                                           | c) <b>Wrong calculation of Bid Capacity.</b>                                                                                                                                                                                                                                                                                                                                                                 |
|      |                                                                                                                                                                                                                                                                                                                                                           | d) <b>No proper submission of experience certificates and other documents, etc.</b>                                                                                                                                                                                                                                                                                                                          |

(III) **Para-Header Data**

| <b>As per present practice</b> |                                         | <b>As per proposed modification</b> |                                         |
|--------------------------------|-----------------------------------------|-------------------------------------|-----------------------------------------|
| Tender Document No.            | XXXXXXXXXXXXXX                          | Tender Document No.                 | XXXXXXXXXXXXXX                          |
| Name of Organisation           | Municipal Corporation of Greater Mumbai | Name of Organisation                | Municipal Corporation of Greater Mumbai |
| Subject                        | XXXXXXXXXXXXXX                          | Subject                             | XXXXXXXXXXXXXX                          |
| Cost of Tender                 | Rs. XXXXXXXXXXXX/- ( 5.5% VAT)          | Cost of Tender                      | 2.50% SGST + 2.50% CGST)                |

|                                                                              |                                                                                                                                           |                                                                                               |                                                                                                                                           |
|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Cost of E-Tender (Estimated Cost)                                            | Rs.                                                                                                                                       | Cost of E-Tender (Estimated Cost)                                                             | Rs.                                                                                                                                       |
| Bid Security Deposit /EMD                                                    | Rs.                                                                                                                                       | Bid Security Deposit / EMD                                                                    | Rs.                                                                                                                                       |
| Date of issue and sale of tender                                             | ..... from 11.00 Hrs.                                                                                                                     | Date of issue and sale of tender                                                              | ..... from 11.00 Hrs.                                                                                                                     |
| Last date & time for sale of tender & <u>Receipt of Bid Security Deposit</u> | ..... from 12.00 Hrs.                                                                                                                     | Last date & time for sale of tender                                                           | ..... from 12.00 Hrs.                                                                                                                     |
| Submission of Packet A, B & Packet C online.                                 | ..... from 16.00 Hrs.                                                                                                                     | Submission of Packet A, B & Packet C online & <b><u>(Receipt of Bid Security Deposit)</u></b> | ..... from 16.00 Hrs.                                                                                                                     |
| Pre-Bid Meeting                                                              | ..... from 11.00 Hrs. in conference room of Ch.E.(.....)                                                                                  | Pre-Bid Meeting                                                                               | ..... from 11.00 Hrs. in conference room of Ch.E.(.....) <b>as applicable.</b>                                                            |
| Opening of Packet 'A'                                                        | ..... after 16.01 Hrs.                                                                                                                    | Opening of Packet 'A'                                                                         | ..... after 16.01 Hrs.                                                                                                                    |
| Opening of Packet 'B'                                                        | ..... after 15.00 Hrs.                                                                                                                    | Opening of Packet 'B'                                                                         | ..... <b>after 16.10 Hrs.</b>                                                                                                             |
| Opening of Packet 'C'                                                        | ..... after 15.00 PM.                                                                                                                     | Opening of Packet 'C'                                                                         | ..... after 15.00 PM.                                                                                                                     |
| Address for communication                                                    | Office of the Ch.E.(.....)'s office M.C.G.M., ----- floor, Engineering Hub Building, Dr.E.Moses Road, Worli Naka, Worli, Mumbai - 400018. | Address for communication                                                                     | Office of the Ch.E.(.....)'s office M.C.G.M., ----- floor, Engineering Hub Building, Dr.E.Moses Road, Worli Naka, Worli, Mumbai - 400018. |
| Venue for opening of Bid                                                     | Online in Ch.Engg. (.....)'s office.                                                                                                      | Venue for opening of Bid                                                                      | Online in Ch.Engg. (.....)'s office.                                                                                                      |

The above amendments shall be made applicable for "major structural repairs / maintenance works and reconstruction / new construction building works" to be carried out through all M.C.G.M. departments and necessary correction shall be done in all tenders to be uploaded from this date onwards. The earlier circular issued in this regards for major structural repair / maintenance work u/No.CHE/BM/1365/II dt 20.04.2018 is treated as canceled with immediate effect.

sd/-  
**Dy.C.E.(S.I.C.)**

sd/-  
**City Engineer**

Sd/-  
**Director (E.S.&P.)**

sd/-  
**A.M.C.(City)**

sd/-  
**A.M.C.(W.S.)**

Sd/- 03.01.2019  
**M.C.**

**Sd/-**  
**07.01.2019**  
**Ch.Eng. (BM)**

Copy to –

CHE /BM/019919/II dated 07.01.2019.

|                                     |                               |                                |
|-------------------------------------|-------------------------------|--------------------------------|
| Director(E.S&P)                     | DMC(Public Health)            | D.M.C.(Garden Cell)            |
| DMC(Engineering)                    | DMC(Special Engineering)      | DMC(School)                    |
| DMC(SWM)                            | DMC(Vigilance)                | Director(M.E&MH)               |
| DMC(R.E)                            | D.M.C.(Fire Brigade)          | DMC(Environment)               |
| DMC, Zone _____                     | Director(I.T)                 | Dean,Nair hospital             |
| Dean,Nair Dental,                   | Dean,Sion Hospital            | Dean, KEM.                     |
| City engineer                       | Hydraulic engineer            | Chief Engineer(D.P)            |
| Chief Engineer(SWM)                 | Chief Engineer(SWD)           | Chief Engineer(Roads& Traffic) |
| Chief Engineer(M&E)                 | Chief Engineer(SP)            | Chief Engineer(S.O)            |
| Chief Engineer(MSDP)                | Chief Engineer(Bridges)       | Chief Engineer(WSP)            |
| Chief Engineer(Disaster Management) | Asst. Commissioner(market)    | Asst. Commissioner(Planning)   |
| Asst. Commissioner(R.E)             | Asst. Commissioner _____ ward | Asst. Commissioner(Estate)     |
| Executive Engineer(MHO)             | Chief Accountant(Finance)     | Chief Accountant(WSSD)         |



## **MUNICIPAL CORPORATION OF GREATER MUMBAI**

No. : MGC/F/6565 dtd. 25-9-2018

### **CIRCULAR**

Sub : Setting up the parameters of litigation history of the bidders.

As approved by Hon'ble M.C., the clause of litigation history be included as part of SBD as below :-

- 1) The bidder shall disclose the litigation history in Packet 'B' under the head "Details of Litigation History".

If there is no Litigation History, the bidder shall specifically mention that there is no Litigation History against him as per the clause of Litigation History. In case there is Litigation History -

**Litigation History must cover – Any action of blacklisting, debarring, banning, suspension, deregistration and cheating with MCGM, State Govt., Central Govt. or any authority under State or Central Govt./Govt. organisation initiated against the company, firm, directors, partners or authorized signatory shall be disclosed for last 5 years from the date of submission of bid. Also, bidder must disclose the litigation history for last 5 years from the date of submission of bid about any action like show cause issued, blacklisting, debarring, banning, suspension, deregistration and cheating with MCGM and MCGM is party in the litigation against the company, firm, directors, partners or authorized signatory for carrying out any work for MCGM by any authority of MCGM and the orders passed by the competent authority or by any Court where MCGM is a party. While taking decision on litigation history, the concerned Chief Engineer or D.M.C. or Director, as may be the case, should consider the details submitted by bidder and take decision based on the gravity of the litigation and the adverse effect of the act of company, firm, directors, partners or authorized signatory on the MCGM works which can spoil the quality, output, delivery of any goods or any work execution and within the timeframe.**

- 2) The litigation history shall be treated as curable defect and hence, the portion/clause of SBD, (C) Bid Capacity at Pg. 15 & in the chapter of 'Instructions to Applicants' at Pg. 31 of the SBD will be now corrected by deleting the word litigation history and shall be read as below.

#### **C) Bid Capacity :**

**The bid capacity of the prospective bidders will be calculated as under: Assessed Available Bid Capacity =  $(A * N * 2 - B)$**

Where,

A = Maximum value of Civil Engineering works executed in any one year (year means Financial year) during the last five years (updated to the price level of the Financial year in which bids are received at a rate of 10% per year) taking into account the completed as well as works in progress.

N = Number of years prescribed for completion of the Project/Works, excluding monsoon period, for which these bids are being invited. (E.g. 7 months = 7/12 year). For every intervening monsoon, 0.33 shall be added to N.

B = Value of existing commitments (only allotted works) on the last date of submission of bids as per bidding document and on-going works to be completed during the period of completion of the Project/Works for which these bids are being invited.

Note: The statement showing the value of existing commitments and on-going works as well as the stipulated period of completion remaining for each of the works listed should be attached along with certificates duly signed by the Engineer-in Charge, not below the rank of an Executive Engineer or equivalent.

Even though the bidders meet the above qualifying criteria, they are subject to be disqualified if they have:

- made misleading or false representation in the forms, statements and attachments submitted in proof of the qualification requirements; and/or
- Reced for poor performance such as abandoning the works, not properly completing the contract, inordinate delays in completion, litigation history, or financial failures etc."

All the concerned are directed to implement the above directions with immediate effect.

9/2  
Director (E. S. & P.)

City Engineer/Ch.Eng.(Roads & Traffic) / Ch.Eng. (Bridges) / H. E. / Ch.Eng. (WSP) / Ch.Eng.(S.P.) / Ch.Eng.(S.O.) / Ch.Eng.(MSDP) / Ch.Eng. (BM) / Ch.Eng.(Vig) / Ch.Eng. (M&E) / Ch.Eng.(D.P.)/Ch.Eng.(SWD) / Ch.Eng. (Coastal Road) / Ch.Eng.(SWM) / Ch.Eng.(CTIRC)/Dy. Ch.Eng.(HIC) / Dy.Ch.Eng.(SIC), Supt. of Gardens'

Asstt. Comm. Ward / Asstt. Comm.(Markets) / Asstt. Comm. (Estate) / Asstt. Comm.(Planning) / Asstt. Comm.(R.E.) City/W.S./E.S.

No. DIR/ES & P/915/MC dtd. 27-9-2018

C.C. to : DMC(MCO)/DMC (Imp.) / DMC(GA)/ DMC(Vig)/ DMC(SE) / DMC(E)/ DMC(CPD)/ DMC(SWM)/DMC (Education)/DMC (RE)/ DMC(PH)/ DMC(Z-I) / DMC(Z-II) / DMC(Z-III) / DMC(Z-IV) / DMC(Z-V)/ DMC(Z-VI)/ DMC(Z-VII) / C.A. (F) / C.A. (WSSD) / C.A. (C.P.D.) / Law Officer

Forwarded for information please.

9/2  
Director (E.S. & P.)

No. No. DIR/ES & P/915/MC dtd. 27-9-2018

C.C. to:

Submitted please.

9/2  
Director (E.S. & P.)

A.M.C.(City) / A.M.C.(E.S.) / A.M.C(W.S) / A.M.C(P)

Sir/Madam,



No: MGE/F/1102  
Date: 25/10/2023

**BRIHANMUMBAI MUNICIPAL CORPORATION**

**Subject : Guidelines for Air Pollution Mitigation.**

- (1) All the project proponents to ensure that at least 35 feet high tin / metal sheets shall be erected around the periphery of construction projects having height more than 70 mtr.
- (2) All construction layouts having area more than 1(one) acre shall have tin / metal sheet erected of height 35 feet at least around periphery of the construction project sites and for construction sites, less than 1 (one) acre, the tin / metal sheet height shall be 25 feet at least.
- (3) All the buildings under construction shall be compulsorily enclosed by green cloth / jute sheet / tarpaulin from all sides.
- (4) All the structures under demolition shall be covered with tarpaulin / green cloth / jute sheet from top to bottom. There shall be continuous sprinkling / spraying of water during the process of demolishing of the structure.
- (5) It shall be ensured that water fogging shall be carried out during loading and unloading of materials at the construction sites (use of stationary/ mobile anti-smog guns).
- (6) The water sprinkling shall be done on debris / earth material etc. which are prone to generate air borne particulate matters at all construction sites without fail.
- (7) All vehicles carrying construction materials shall be fully covered (i.e. from top and all sides) so that construction material or debris does not become airborne during transportation and the vehicle shall not be overloaded to avoid any spillage from the vehicle.
- (8) All construction sites shall install CCTV cameras along the periphery of their work sites to ensure that vehicles are plying after cleaning tyres and are not overloaded .



- (9) All construction sites to deploy sensor based air pollution monitors at work sites and act immediately on observing pollution levels exceeding the limit. This monitoring shall be made available for inspection to BMC authorities as and when demanded.
- (10) All the work sites shall ensure that the grinding, cutting, drilling, sawing and trimming work is carried out in enclosed area and water sprinkler / water fogging is continuously done while working to avoid escape of fugitive air.
- (11) All the construction sites shall ensure that C & D (Construction and Demolition) waste generated within the premises / site of work is transported to designated unloading site strictly as per BMC's C & D Waste Management Plan. After unloading the debris, the vehicle shall be washed and cleaned thoroughly.
- (12) All vehicles carrying materials shall have valid PUC certificates and the same shall be produced as and when asked for by competent authorities.
- (13) All the construction personnel / managers shall mandatorily wear personal protective equipment such as masks, goggles, helmets, etc.
- (14) All the BMC worksites like bridges and flyovers shall have barricading of 25 feet.
- (15) All the metro works above ground shall be covered with barricading of 25 feet height. The construction site shall be covered with tarpaulin / green cloth / jute sheet. The smog guns / water sprinklers shall be used during the construction work.
- (16) The mitigation measures suggested as above shall be mandatorily observed by other agencies like SRA, MHADA, MIDC, MSRDC, MMRDA, BPT, Airport Authority of India, Railways, Govt. or Semi Govt. authorities and private construction sites.
- (17) All Asstt. Commissioners in charge of Wards shall arrange to deploy special squads to prevent illegal C & D dumping at late night.

- (18) All Asstt. Commissioners in charge of Wards shall deploy squads for air pollution mitigation enforcement comprising of :-

- i) Two (Ward) engineers
- ii) One Policeman
- iii) One marshall
- iv) Vehicle

Each squad shall be headed by one senior officer from the Ward.

The formation and deployment of these squads at Ward level shall be done immediately.

The number of squads Ward-wise shall be as follows :-

- a) Smaller wards – 2 squads each ward
  - b) Middle size wards – 4 squads each ward
  - c) Larger size wards – 6 squads each ward.
- (19) The enforcement squad shall visit the premises and videograph the worksite. If it is observed that the worksite is not adhering to above stated provisions, stringent action such as issue of Stop Work notice and/or sealing of worksite shall be taken immediately.
- (20) The timeline for procurement of sprinklers shall be 15 days and for procurement of smog guns shall be 30 days from issuance of this circular. All the project proponent / contractors shall abide by the above timelines without fail.
- (21) The vehicles carrying construction material or C & D material, if found not adhering to above stated provisions, shall be seized and impounded.
- (22) The Transport Commissioner shall take action against overloading of vehicle, uncovered vehicles, vehicles spilling construction materials on roads and the heavy duty diesel vehicles which are more than 8 years old shall be strictly prohibited in Mumbai jurisdiction.
- (23) MPCB shall monitor the air pollution emitted from the industries such as BPCL, HPCL, RCF, Tata Power, industries in nearby MIDC area etc. daily for next one month and take appropriate action. The daily monitoring data shall be shared with AMC (City) and A.M.C.(W.S.).

- (24) All builders / Developers shall engage only those vehicles which possess vehicles tracking system installed on them.
- (25) The loose soil, sand, construction materials and debris of any kind and quantity shall be stored in demarcated / dedicated area and properly barricaded, fully covered / enclosed / protected with tarpaulins. It shall be ensured that there is no dumping of construction material and debris on public roads, footpaths, pavements and open area.
- (26) Vehicle tyre washing facility shall be provided at all exit points of construction sites. It shall be ensured that daily cleaning is carried out of major roads for removal of dust by using vacuum sweeping or water sprinkling, brushing, brooming and sweeping. This work may be outsourced to ensure wide and fast coverage of all major roads in one month's time.
- (27) There shall be complete ban on open burning anywhere in the geographical area under BMC, especially garbage dumping grounds and possible sites of trash burning.

(Dr. I.S. Chahal)  
Municipal Commissioner

20/10-23.

4-20

**MUNICIPAL CORPORATION OF GREATER MUMBAI  
LEGAL DEPARTMENT**

**010539**

Circular No.            Date:- 28 /03/2023

Sub : Revised Legal and stationery Charges to be recovered for preparing Contract Agreements.

- Ref : 1) Circular No.CA/FRM/7 dtd.03/05/2011.  
2) Circular No.CA/FRM/49 dtd.07/02/2013.  
3) C.A./FRM/287A dt.04/12/2015.  
4) C.A./FRM/30 dt.18/01/2016.  
5) C.A./FRM/374-A dt.07.03.2017.  
6) C.A./FRG/37 dt. 05.02.2018  
7) C.A/FRM/FI/82 dt. 15.01.2019  
8) C.A/FRM/FI/86 dt. 09.03.2020  
9) MGC/F/4682 dt. 16.06.2021  
10) CA/FRT/17 dt. 07.12.2022

As per above referred Circulars, Legal Charges for preparation, verification etc. of the Legal documents have now been revised by 10% increase on prevailing amount which was came into effect from 1/4/2023.

As per the CA circular no. CA/FRT/17 dt. 07.12.2022 18% GST will be charged on All type of legal and stationery charges . Revised rates for Legal and Stationery Charges to be recovered for preparing Contract Agreements with effect from 1.4.2023 will be as shown below :-

| Sr. No. | Common levy of Legal and Stationery charges for preparation of Contract Agreement | Revised Charges Rs. |
|---------|-----------------------------------------------------------------------------------|---------------------|
| 1       | Rs. 10,001 to Rs. 50,000/-                                                        | NIL                 |
| 2       | Rs. 50,001 to Rs. 1,00,000/-                                                      | Rs. 6,920/-         |
| 3       | Rs. 1,00,001 to Rs. 3,00,000/-                                                    | Rs. 11,420/-        |
| 4       | Rs. 3,00,001 to Rs. 5,00,000/-                                                    | Rs. 13,720/-        |
| 5       | Rs. 5,00,001 to Rs. 10,00,000/-                                                   | Rs. 15,970/-        |
| 6       | Rs. 10,00,001 to Rs. 20,00,000/-                                                  | Rs. 18,230/-        |
| 7       | Rs. 20,00,001 to Rs. 40,00,000/-                                                  | Rs. 20,530/-        |
| 8       | Rs. 40,00,001 to Rs. 1,00,00,000/-                                                | Rs. 22,800/-        |
| 9       | Rs. 1,00,00,001 to Rs. 10,00,00,000/-                                             | Rs. 26,900/-        |
| 10      | Rs. 10,00,00,001 to Rs. 20,00,00,000/-                                            | Rs. 31,050/-        |
| 11      | Rs. 20,00,00,001 to Rs. 30,00,00,000/-                                            | Rs. 35,180/-        |
| 12      | Rs. 30,00,00,001 to Rs. 40,00,00,000/-                                            | Rs. 39,320/-        |



|    |                                            |               |
|----|--------------------------------------------|---------------|
| 13 | Rs. 40,00,00,001 to Rs. 50,00,00,000/-     | Rs. 43,420/-  |
| 14 | Rs. 50,00,00,001 to Rs. 1,00,00,00,000/-   | Rs. 51,700/-  |
| 15 | Rs. 1,00,00,00,001 to Rs. 2,00,00,00,000/- | Rs. 64,100/-  |
| 16 | Rs. 2,00,00,00,001 to Rs. 3,00,00,00,000/- | Rs. 72,350/-  |
| 17 | Rs. 3,00,00,00,001 to Rs. 4,00,00,00,000/- | Rs. 82,640/-  |
| 18 | Rs. 4,00,00,00,001 to Rs. 5,00,00,00,000/- | Rs. 92,970/-  |
| 19 | Rs. 5,00,00,00,001 and above               | Rs. 103,320/- |

The revised rates will be effective from 01/04/2023

*Shobha*  
28/3/23  
(Shobha Ajithakumar)  
Dy. Law Officer (Conveyance-II)  
Legal Department

*Modale*  
28/3/2023  
(S. M. Modale)  
Jt. Law Officer (Conveyance-I)  
Legal Department

*Sunil*  
28/3/2023  
(Sunil Sonawane)  
Law Officer  
Legal Department

CIRCULAR  
2022-2023  
Circular No. dt. /03/2023

Copy to: ..... for information & necessary action please.

*Amant*  
28-3-2023  
(Amant Kajrolkar)  
Dy. Law Officer  
Legal Department

## बृहन्मुंबई महानगरपालिका

परिपत्रक

२०२२-२३

क्र. सीए/एफआरटी/१७ दि. ०७.१२.२०२२

विषय : "Legal & Stationery Charges" व "Sale of Publication" महसुलावर वस्तू व सेवाकर वसूल करण्याबाबत आणि चलनाच्या प्रतीबाबत.

संदर्भ: १) परिपत्रक क्र. सीए/एफआरटी/०६ दि. ११.०७.२०१७.

२) वस्तू व कर सल्लागार यांचा दि. ०१.०४.२०२२ रोजीचा ई-मेल.

३) वस्तू व कर सल्लागार यांचा दि. १३.०५.२०२२ रोजीचा ई-मेल.

४) वस्तू व सेवाकर सल्लागार यांचा दि. २९.०६.२०२२ रोजीचा ई-मेल.

महानगरपालिकेस प्राप्त होणाऱ्या विधी व लेखनसाहित्य आकार या महसुलावरील वस्तू व सेवाकराच्या अनुज्ञेयतेबाबत बृहन्मुंबई महानगरपालिकेचे वस्तू व सेवाकर सल्लागार मे. बाटलीबॉय अंड पुरोहित यांच्याकडून दि. १३.०५.२०२२ रोजी ई-मेल द्वारे प्राप्त सल्ल्यानुसार "विधी व लेखन साहित्य आकार" (Legal & Stationery Charges) करपात्र आहे. त्याअनुषंगाने, लेखाधिकारी (एफआरटी) उपविभागाने सर्व विभाग/ खाते यांना दि. १९.०५.२०२२ रोजी ई-मेलद्वारे दि. ०१.०४.२०२२ पासून Legal & Stationery महसुलावर वस्तू व सेवाकर आकारण्याबाबत कळविले आहे. सर्व विभाग/ खाते यांनी दि. ०१.०४.२०२२ पासून Legal & Stationery Charges च्या महसुलावर वस्तू व सेवाकर वसूल केला असून, लेखा अधिकारी (एफआरटी) उपविभागाने सदर वस्तू व सेवाकराची वसुली GSTR-1 व GSTR-3B मध्ये दर्शविली आहे. विधी व लेखनसाहित्य आकारावरील वस्तू व सेवाकराच्या वसुलीकरिता दोन नवीन लेखासंकेतांक तयार करण्यात आले असून ते पुढील तक्त्यात नमूद केले आहेत.

| Description of Revenue     | From 01.04.2022 | GL Code   | Description                             | HSN/SAC Code |
|----------------------------|-----------------|-----------|-----------------------------------------|--------------|
| LEGAL & STATIONERY CHARGES | 18%             | 140805301 | Legal and Stationery Charges-Taxable    | 9997         |
|                            |                 | 140805302 | Legal and Stationery Charges-Reg Person | 9997         |

तसेच परिपत्रक क्र. सीए/एफआरटी/०६ दि. ११.०७.२०१७ मधील निदेशानुसार "Sale Of Publication" (GL Code 150110500) या लेखासंकेतांकातर्गत जमा होणा-या महसुलावर ०५% वस्तू व सेवाकर लागू होता, वस्तू व सेवाकर सल्लागार मे. बाटलीबॉय अंड पुरोहित यांच्या दि. ०१.०४.२०२२ रोजीच्या ई-मेलच्याअनुषंगाने दि. ०१.०४.२०२२ पासून "Sale Of Publication" वर १२% दराने वस्तू व सेवाकर आकारणे आवश्यक आहे. लेखाधिकारी (एफआरटी) उपविभागाने दि. ०१.०४.२०२२ रोजी संबंधित विभाग / खाते यांना "Sale Of Publication"

या महसुलावरील, वाढीव वस्तू व सेवाकराची वसुली करण्याबाबत ई-मेलद्वारे कळविले आहे. त्यानुसार संबंधित विभाग / खाते यांनी १२% दराने दि. ०१.०४.२०२२ पासून वस्तू व सेवाकर वसूल केला आहे व त्याचा भरणा लेखा अधिकारी (एफआरटी) उपविभागाद्वारे शासनास विहित वेळेत करण्यात आला आहे. तरी यापुढेही "Legal & Stationery Charges" व "Sale Of Publication" वर अनुक्रमे १८% व १२% दराने वस्तू व सेवाकर आकारण्यात यावा.

तसेच वस्तू व सेवाकर सल्लागार मे. बाटलीबॉय अंड पुरोहित यांच्या दि.२९.०६.२०२२ रोजीच्या ई-मेलनुसार, वस्तू व सेवाकर कायद्यातील तरतुदीनुसार, यापुढे वस्तू व सेवाकराची रक्कम नमूद असलेल्या चलनाची एक प्रत पक्षकारास देणे अनिवार्य आहे. सद्यस्थितीत खात्याकडून दिल्या जाणाऱ्या चलनाच्या २ प्रतीपैकी १ प्रत संबंधित विभागात व दुसरी प्रत नागरी सुविधा केंद्रामध्ये (CFC) जतन केली जाते. सदर चलनावर "Amount of Tax Subject to Reverse Charge" असे नमूद असते. पक्षकार नोंदणीकृत असल्यास RCM (Reverse Charge Mechanism) अंतर्गत, वस्तू व सेवाकर शासनास भरावयाची जबाबदारी पक्षकाराची आहे हि बाब पक्षकारास अवगत होण्याकरीता, त्याला चलनाची एक प्रत मिळणे आवश्यक आहे. यास्तव यापुढे चलनाच्या २ प्रती ऐवजी ३ प्रती तयार करण्यात याव्यात. ३ पैकी १ प्रत संबंधित विभागामार्फत पक्षकारास देण्यात यावी, १ प्रत संबंधित विभागात व १ प्रत नागरी सुविधा केंद्रामध्ये (CFC) जतन करण्यात यावी.

संचालक(वै. शि. व प्र. रुग्णालये)/ सर्व खातेप्रमुख/ सहाय्यक आयुक्त/ अधिष्ठाता/ प्रमुख वैद्यकीय अधिक्षक/ वैद्यकीय अधिक्षक यांनी त्यांच्या अखत्यारितील सर्व संबंधित कर्मचाऱ्यांना उपरोक्त सूचनांची अंमलबजावणी करण्यासंबंधीचे कृपया निर्देश द्यावेत.

सही/-२९.११.२०२२  
(श्री.पांडुरंग गोसावी)  
प्रमुख लेखापाल (पा.पु.म.नि)

सही/- २९.११.२०२२  
(श्री. प्रदिप पडवळ)  
प्रमुख लेखापाल (वित्त)प्र

सही/-३०.११.२०२२  
(श्री. रामदास आव्हाड)  
उप आयुक्त (वित्त)

सही/- ०५.१२.२०२२  
(श्री.पी.वेलरासू)  
अति. आयुक्त (प्रकल्प)

परिपत्रक  
२०२२-२३

क्र. सीए/एफआरटी/ ०५ दि. ०३.०८.२०२२

प्रत..... (जादा..... प्रतीसह) यांना माहिती करिता व पुढीलआवश्यक त्या कार्यवाहीकरिता अग्रेषित.

प्रमुख लेखापाल (वित्त) यांजकरिता



# **MUNICIPAL CORPORATION OF GREATER MUMBAI**

c/13

**Circular**

**No. D.M.C/S.W.M./67, D+4 E6 APR 2018**

Hon. Supreme Court of India has passed orders in the Special Leave Petition (Civil) No. D 23708 / 2017 dated 15/03/2018. Accordingly MCGM shall permit a builder or developer to carry on Construction at their sites for deposition of C & D waste subject to following procedure. The approval to the C & D "Waste Management Plan" (WMP) for transportation of C & D waste to designated unloading sites shall be provided by applicant on line.

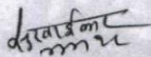
## **A) For Existing designated unloading sites -**

1. Consent Letter along with notarized documents from the land owner of the designated unloading site and mentioning Quantity of C & D Waste that can be accommodated along with time period.
2. Name, address, contact person of the transporting agency.

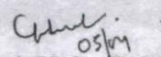
## **B) For Approval of New C & D waste unloading sites -**

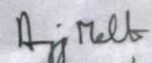
The builder/developer shall apply to Solid Waste Management Department with following details :-

1. The Owner/ POA shall submit an Application for the purpose of declaring the Site/Land as "Approved designated Unloading site" for unloading of C & D waste as per C & D Waste Management Rules, 2016.
2. The Application shall accompany with
  - (i) Property card and/ or 7/12 extract, Location Plan, Plot Boundary with Contour Map, Quantity of C & D waste which can be unloaded and Period.
  - (ii) Title Report from Advocate in practice having 5 years of experience, indicating the title of applicant.
3. The site will be inspected by Zonal E.E. (SWM) for its suitability for unloading of C & D waste within 15 days of application. If site is found to be acceptable, the Approval shall be granted to the new site as "designated unloading site" to receive C & D Waste. This site shall be made available for on line approval of C & D "Waste Management Plan".
4. The builder / developer shall pay Bank Guarantee online as per annexure-A based on the plot area of construction site.

  
Ch.E. (S.W.M.)

  
D.M.C. (S.W.M.)

  
A.M.C. (E.S.)

  
M.C. (S.W.M.)  
5/4/18



# Municipal Corporation of Greater Mumbai

No. Dy.Ch.Eng./SWMB/3957/Op. dt. 10/09/2018

## CIRCULAR

28-9-2018

Subject: Implementation of the Construction and Demolition Waste Management Rules, 2016

Reference: i) Hon'ble Supreme Court's order in the Special Leave Petition (civil) No. D 23708/2017, dated 15/03/2018  
ii) Hon'ble M.C. Sir's Approval w/no. MGCF/7076 dtd. 30.08.2018

The Construction and Demolition Waste Management Rules, 2016 is applicable to 'every waste resulting from construction, re-modeling, repair and demolition of any civil structure of individual or organisation or authority who generates construction and demolition waste such as building materials, debris, rubble'.

Hon'ble Supreme Court vide order dated 15/03/2018, has directed to dispose of construction and demolition waste material by following due procedure in accordance with the provisions of the Construction and Demolition Waste Management Rules, 2016.

In order to put curb on the un-authorisedly dumped waste, it is essential to control it by asking ward Maintenance department or any MCGM department to issue work-permission only after assessing the total estimated quantity of C&D waste likely to be generated out of the repairs / construction / trenching work or any such civil works, and asking them to make payment in advance or in stages of waste generation for the 'Debris on Call' system or transport C&D waste to designated unloading site.

Following standard operating procedure is proposed to be adopted:

- 1) MCGM department like A. E. (Maintenance), A. E. (B&F), H.E., S.O., S.P., M.S.D.P., W.S.P., S.W.D., S.W.M., C.E., B.C., B.M., Roads, Bridges, etc. carrying out civil work / repairs works etc. shall put condition in the tender / quotation / work order to dispose of C&D waste generated either by (i) 'Debris on Call' scheme if generation of C&D waste is less than 300MT for entire project or (ii) contractor shall transport to designated unloading site approved by MCGM S.W.M. department by following due procedure if C&D waste is more than 300MT for entire project.
- 2) The estimated quantity of the C&D waste generated shall be certified by A.E. (Maintenance) Ward or the concerned department.
- 3) If quantity of C&D waste is less than 300MT, A. E. (S.W.M.) Ward will issue Challan for making payment as per 'Debris on call' scheme on approval from Zonal Ex. Eng. (S.W.M.).
- 4) If quantity of C&D waste is more than 300MT, the contractor / agency will submit C&D waste management plan complete with requisite documents to Zonal Ex. Eng. (S.W.M.). On approval, the contractor / citizen / agency carrying out the civil works will be allowed to transport the C&D waste material to the designated unloading site.
- 5) The contractor / citizen / agency carrying out the civil works shall maintain & submit the appropriate record like date, quantity of C&D waste transported, vehicle No., Challan of Receipt of C&D waste from unloading site etc.
- 6) The whole system of issuing NOC for C&D waste transportation and payment will be made ONLINE and for this M/S. Softech will be asked to develop appropriate software on the basis of existing norms being done for auto-DCR portal.
- 7) The proposals will be processed manually till the complete system fully operational online.
- 8) All the contractors / agencies using designated unloading site must maintain proper record of the C&D waste generated and transported along with date and vehicles through which C&D is transported & the copies of Challans from unloading site for having unloaded the C&D waste and submit the same to A.E. (S.W.M.) ward through concerned department.

Sd/-07/08/2018  
Ch. Eng. (S.W.M.)

Sd/-07/08/2018  
D.M.C. (S.W.M.)

Sd/-10/08/2018  
A.M.C. (E.S.)

Sd/-29/08/2018  
Municipal Commissioner

Ch Eng (SP) submitted, please.

*[Signature]*  
Dy. Ch. Eng. (SWM)

**BRIHANMUMBAI MAHANAGARPALIKA**

**CIRCULAR**

**2020-21**

**No.CA(F)/Project/ 32 of 26.10.2020**

**Sub : Bid Security or EMD**

**Ref : No.MDD/7878 of 27.09.2016**

The MCGM's tender conditions have been amended and Standard Bid Document has been circulated vide No.MDD/7878 of 27.09.2016.

The condition of refund of Bid Security or EMD incorporated in SBD, is as follows :-

- (i) The Bid Security of the successful bidder will be discharged when the bidder has signed the agreement and furnished the required Security Deposits.
- (ii) The Bid Security/EMD of L-3 and bidders shall be refunded immediately after opening of financial bid but the EMD/ASD submitted by the L-2 bidder will be returned after obtaining Standing Committee Resolution.

In recent past, due to COVID-19 pandemic, various benefits and relief are given to contractor for ease of doing business and to maintain their cash flow. Further, the Statutory Committee meetings are not held in this pandemic situation. Hence, the condition of refund of Bid Security/EMD and ASD is reviewed and revised condition for all invited tenders wherein Statutory Committee's sanction has not been accorded and forthcoming e-tenders –

- (a) The Bid Security/EMD of the successful bidder will be discharged when the bidder has signed the agreement and furnished the required Security Deposits.
- (b) The Bid Security/EMD and ASD of L-2 and other higher bidders (L-3, L-4, etc.) shall be refunded immediately after opening of financial Bid.



(c) In case, the successful bidder becomes non-responsive or successful bidder withdraws the bid or is unwilling to extend the bid validity period, in such circumstances, if L-2 bidder is agreeable to extend the bid validity period and ready to deposit the requisite amount of bid security/EMD and ASD to the department within the stipulated time period i.e. 15 days, the department will process further as per normal procedure.

The above revised directives shall come into effect immediately on issuance of this circular.

All Chief Engineers/Head of Departments/Deans shall note the above directives and follow them scrupulously.

Sd/-13.10.2020  
C.A.(W.S.S.D.)

Sd/-13.10.2020  
D.M.C.(Infra)

Sd/-16.10.2020  
A.M.C.(P)

Sd/-13.10.2020  
D.M.C.(E)

Sd/-13.10.2020  
C.A.(Finance)i.c

Sd/-13.10.2020  
Dir.(ES&P)

Sd/-23.10.2020  
Municipal Commissioner

**MUNICIPAL CORPORATION OF GREATER MUMBAI**

**CIRCULAR**

**No.CA (F)/Project/31 Dt. 26/10/2020.**

**Subject: -** Revised Policy for Governing Extra-excess-saving

**Ref:-** 1. Circular No.CA/FRD/I/57 dt.13.03.2013.

2. Circular No. Dir/E.S.&P./324 dt.15.07.2015.

At present the extra/excess/saving proposals are dealt as per Decision Rules framed under circular No.CA/FRD/I/57 of 13.03.2013 &Dir/E.S.&P./324 dt.15.07.2015.

Hon'ble M.C. has directed to review the existing Decision Rules and amend it suitably. Accordingly, in view to exercising effective control over the extra/excess and speedy process of such proposal during execution of the work, the powers of approval of extra/excess /saving and Fair items are reviewed and delegated according to the attached modified statement-"A". Except this, other conditions of Circular No. DIR./E.S.&P./324 dt.15.07.2015 shall remain unchanged and will be applicable as it is.

The "Decision Rules" framed and circulated apropos circular No.CA/FRD/I/57 of 13.03.2013 and Dir/ES&P/324 of 15.07.2015 shall remain applicable for those extra/excess works which were executed before issuance of these amended rules/directives by obtaining prior administrative approval of competent authority, as the case may be.

The revised policy for governing Extra/Excess and Fair items will come into effect immediately from the issuance of this circular.

All Chief Engineers/ Head of Departments/Deans shall note the above directives and follow them scrupulously.

Sd/- 13.10.2020

**C. A. (WSSD)**

Sd/- 13.10.2020

**C. A. (Finance)i.c.**

Sd/- 13.10.2020

**D.M.C. (Infra)**

Sd/- 13.10.2020

**D.M.C.(E.)**

Sd/- 14.10.2020

**D.M.C.(S.E.)**

Sd/- 13.10.2020

**Dir.(E.S.&P.)**

Sd/- 16.10.2020

**A.M.C. (Project)**

Sd/- 23.10.2020

**Municipal Commissioner**

**Statement –A**

(i) **Extra/Excess/Saving**

| Nature of work                                                                                                                                                                                                                                                                                                                                                                    | Permissible limit of Extra/Excess/Saving and Approving authority                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                   | DMC(Infra)/ DMC(E)/ DMC(SE)/ Dir(ES&P)/ Jt.M.C.                                                                                                                                                                                                                         | Concerned A.M.C.                                                                                                                                                                                                                                                          | Municipal Commissioner                                                                                                                                                                                                                                                                                                                                            |
| General Work/<br>Underground works/<br>Unforeseen works                                                                                                                                                                                                                                                                                                                           | <p>(i) <u>Cumulative</u> amount of Extra/Excess/Saving in any <u>individual item</u> Upto Rs.25 Lakh<br/>And</p> <p>(ii) Total <u>Cumulative</u> amount of Extra/Excess/Saving <u>on all items</u> upto 5% of the total contract cost, but not exceeding Rs.1 crore</p> | <p>(i) <u>Cumulative</u> amount of Extra/Excess/Saving in any <u>individual item</u> Upto Rs.1crore<br/>And</p> <p>(ii) Total <u>Cumulative</u> amount of Extra/Excess/Saving <u>on all items</u> upto 15 % of the total contract cost, but not exceeding Rs.10 crore</p> | <p>(i) <u>Cumulative</u> amount of Extra/Excess/Saving in any <u>individual item</u> above Rs.1Crore<br/>And / OR</p> <p>(ii) Total <u>Cumulative</u> amount of Extra/Excess/Saving <u>on all items</u> above 15% of the total contract cost.<br/>And / OR</p> <p><u>Cumulative</u> amount of Extra/Excess/Saving <u>on all items</u> exceeding Rs.10 Crores.</p> |
| <p><b>Payment Terms:</b></p> <p><u>Excess Items</u> shall be paid as per the rates quoted by the tenderer at the time of tender</p> <p><u>Extra Items</u> shall be paid as per the rate prevailing in "Unified Schedule of Rate" of MCGM at the time of tender at rebate quoted by the contractor or at Par in case of premium quoted by the contractor at the time of tender</p> |                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                   |



**(ii) Fair Item**

| Nature of work         | Permissible limit of Fair Item and Approving authority                                                                    |                                                                                                                                                                                      |                                                                                                                                                                                           |
|------------------------|---------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                        | DMC(Infra)/ DMC(E)/ DMC(SE)/ Dir(ES&P)/ Jt.M.C.                                                                           | Concerned A.M.C.                                                                                                                                                                     | Municipal Commissioner                                                                                                                                                                    |
| For all nature of work | Total <u>Cumulative</u> amount of Fair <u>on all items</u> upto 2% of the total contract cost, but not exceeds Rs.20 Lakh | Total <u>Cumulative</u> amount of Fair <u>on all items</u> upto 5 % of the total contract cost, but not exceeds Rs.1 crore<br>(Other than the proposals in the purview of DMC/Jt.MC) | Total <u>Cumulative</u> amount of Fair <u>on all items</u> above 5% of the total contract cost.<br>And / OR<br><u>Cumulative</u> amount of Fair <u>on all items</u> exceeding Rs.1 Crore. |

**Payment Terms:**

**Fair Items** shall be got approved by the concerned DMC/Dir(ES&P)/Jt.M.C. The engineer in-charge shall work out these fair items at fair and reasonable market rates on the basis of material, labour and operation of construction equipment required to execute the item and allowing 15% to cover profits and overhead charges(i.e. including taxes, duties, etc.) On the same lines of rate analysis prepared for the items that are in "Unified Schedule of Rate" of MCGM.

**The rates of Fair Items** shall be valid for one year only. Moreover, no escalation will be admissible on the fair items till the completion of such works, in which the fair items are executed.

**Fair Items** shall be paid **at PAR** in case of premium quoted by the contractor, in newly created FAIR ITEM or item not included in prevailing "Unified Schedule of Rate" of MCGM at the time of tender. OR at rebate quoted by the contractor if it is already added in prevailing "Unified Schedule of Rate" of MCGM at the time of tender.

|                 |                     |                 |                 |                |                |
|-----------------|---------------------|-----------------|-----------------|----------------|----------------|
| Sd/- 13.10.2020 | Sd/- 13.10.2020     | Sd/- 13.10.2020 | Sd/- 13.10.2020 | Sd/-14.10.2020 | Sd/-13.10.2020 |
| C. A. (WSSD)    | C. A. (Finance)I.c. | D.M.C.(Infra)   | D.M.C.(E.)      | D.M.C.(S.E.)   | Dir.(E.S.&P.)  |

## बृहन्मुंबई महानगरपालिका

परिपत्रक

२०१९-२०

क्रमांक : सीए/एफबीके/२४९, दिनांक २७.११.२०१९

विषय : बँकेने दिलेले हमीपत्र (बँकर्स गॅरंटी) स्विकारण्याबाबत.

संदर्भ : सीए/एफबीके/३९, दिनांक - ०७/१२/२०१२

सीए/एफबीके/२५, दिनांक - १०/१०/२०१२

कंत्राटदार / पुरवठादार यांच्याकडून सादर करण्यात येणारी बँक हमीपत्रे (बँकर्स गॅरंटी) स्विकारण्यासंदर्भात उपरोक्त संदर्भाधीन परिपत्रकान्वये मार्गदर्शनपर सूचना परिक्रमित करण्यात आल्या आहेत. सदर परिपत्रकातील परिच्छेद क्रमांक २ मध्ये पुढील प्रमाणे सुधारणा करण्यात येत आहेत.

सदर परिपत्रकात नमूद केलेली भारतीय रिझर्व बँकेची "rbidocs.rbi.org.in/rdocs/publications/pdfs/84656.pdf" ही लिंक "www.rbi.org.in" अशी वाचण्यात यावी.

तरी, सर्व खातेप्रमुख, सहाय्यक महापालिका आयुक्त आणि संबंधित यांनी वरील सुधारणेची नोंद घेऊन संबंधित कंत्राटदार/पुरवठादार यांना अवगत करावे.

सही/- १४.११.२०१९

प्रमुख लेखापाल (पा.पु.म.नि.)

सही/- १४.११.२०१९

प्रमुख लेखापाल (वित्त) प्र.

परिपत्रक

२०१९-२०

क्रमांक : सीए/एफबीके/२४९, दिनांक २७.११.२०१९

यांना प्रत (-----) अधिक प्रतीसह

माहितीकरिता व योग्य त्या कार्यवाहीसाठी पाठवित आहे.

सदर परिपत्रक महानगरपालिकेच्या <ftp://hr.mcgm.gov.in/Circular/CA/Finance/2019/> या संकेतस्थळावर प्रसिद्ध करण्यात आलेले आहे.

वि.प्र. कथरे. २७/११/१९

प्रमुख लेखापाल (वित्त) मांजकगिना

## बृहन्मुंबई महानगरपालिका

परिपत्रक

२०२२-२०२३

क्र. प्रले/वित्त/प्रकल्प/२६ दि. २८.०७.२०२२

विषय : दि.१८.०७.२०२२ पासून सुधारित दराने लागू झालेल्या वस्तु व सेवाकरांच्या अनुषंगाने महापालिकेतील विविध प्रकल्प कामे तसेच वस्तु व सेवांच्या खरेदी देयकांवर वस्तु व सेवाकरांच्या अनुज्ञेयतेबाबत.

संदर्भ : १) क्र. प्रले/प्रकल्प/शहर/७ दि.१४.०७.२०१७  
२) क्र. प्रले/प्रकल्प/शहर/८ दि.१४.०७.२०१७  
३) क्र. प्रले/वित्त/प्रकल्प/२५ दि.१२.०७.२०२२

दि.१८.०७.२०२२ पासून वस्तु व सेवा करांच्या दरांमध्ये सुधारणा झाली असून, त्या अनुषंगाने महानगरपालिकेस प्राप्त झालेल्या तसेच होणाऱ्या देयकांवर वस्तु व सेवा करांच्या अनुज्ञेयतेबाबत वस्तु व सेवाकर सल्लागार मे. बाटलीबॉय अँड पुरोहित यांजोडून " Point of Taxation in case of change of GST rates (Section 14)" प्राप्त झाले आहे. प्राप्त सल्ल्यानुसार वस्तु व सेवाकर कायद्यातील तरतूदीनुसार विविध प्रसंगी लागू असलेला जुना दर व सुधारित दर याबाबतचा मार्गदर्शक तक्ता (परिशिष्ट 'अ') सोबत जोडले आहे. त्याचप्रमाणे, वस्तु व सेवाकरांच्या सुधारित दरांच्या अनुषंगाने महानगरपालिकेचे कर सल्लागार मे. बाटलीबॉय अँड पुरोहित यांनी सल्ला दिला आहे. त्याची प्रत परिपत्रका सोबत ' परिशिष्ट ब' येथे जोडण्यात आलेली आहे.

तथापि, जी कामे प्रगतीपथावर (In progress) आहेत, त्याबाबत सुधारित वस्तु व सेवा कर यांच्या अनुषंगाने अवलंब करावयाची कार्यपद्धती खालीलप्रमाणे असेल.

१) प्रगतीपथावरील कामाच्या कंत्राटामध्ये परिपत्रक क्र. प्रले/वित्त/प्रकल्प/शहर/८ दि.१४.०७.२०१७ नुसार 'कर' संबंधी Annexure -A Tax बाबतची निम्नलिखित अट

" Rates accepted by MCGM shall hold good till completion of work and no additional individual claim shall be admissible on account of fluctuations in market rates, increase in taxes/any other levis/toll etc. except that payment/recovery for overall market situation shall be made as per price variations."

समाविष्ट असेल, तर

अ) अश्या प्रगतीपथावरील कामाच्या बाबतीत दि.१८.०७.२०२२ पूर्वी जेव्हा काम झाले आहे व त्या कामाकरिता देयक सादर झाले असेल, तर कंत्राट



रक्कमेमधील त्या रक्कमेपर्यंतचे अधिदान वस्तु व सेवा कराच्या जुन्या दराने होईल. परंतु, दि.१८.०७.२०२२ किंवा त्यानंतर झालेली कामे अथवा देयक सादर केले असल्यास, त्या प्रत्येक प्रकरणी जुन्या दराने देण्यात आलेला कार्यदिश रद्द करून वस्तु व सेवा कराच्या ज्या कंत्राटास लागू असलेल्या सुधारित दराने कंत्राट किंमतीच्या अधीन राहून कार्यदिश देणे व त्यानुसार देयक प्रमाणित करणे आवश्यक असेल.

ब) मसूदा निविदेमध्ये वर नमूद केल्याप्रमाणे कर संबंधी Annexure -A Tax बाबतची अट अंतर्भूत आहे व कार्यदिश देण्यात आलेला नाही, अश्या सर्व प्रकरणात, वस्तु व सेवा कराच्या सुधारित दरांनुसार कंत्राट किंमतीच्या अधीन राहून कार्यदिश देणे आवश्यक असेल.

२) प्रगतीपथावरील कामाच्या कंत्राटामध्ये परिपत्रक क्र.प्रले/वित्त/प्रकल्प/शहर/८ दि.१४.०७.२०१७ नुसार कर संबंधी अट अंतर्भूत नसेल व करवाढीची रक्कम महापालिकेकडून देय असेल, या प्रत्येक प्रकरणी, त्या त्या कंत्राटामध्ये समाविष्ट असलेल्या कर संबंधित कंत्राटातील अटी व शर्ती नुसार सक्षम अधिकाऱ्यांनी निर्णय घ्यावा. तथापि, वस्तु व सेवाकराच्या सुधारित दरामुळे वाढणाऱ्या दायित्वामुळे कंत्राट रक्कमेत बदल होत असल्यास, अश्या प्रत्येक प्रकरणी, मुंबई महानगरपालिका अधिनियम १८८८ च्या कलम ६९ (ई) सह वाचावयाच्या कलम ६९ (क) नुसार सक्षम प्राधिकरणांची पूर्व मंजूरी प्राप्त करणे आवश्यक असेल, व त्यानुसार सुधारित कार्यदिश देणे आवश्यक असेल.

३) वस्तु व सेवा कराच्या सुधारित दरांच्या अनुषंगाने प्रत्यक्ष काम करताना कराच्या दरांबाबत अथवा कोणतीही शंका असेल, तर महानगरपालिकेचे कर सल्लागार मे. बाटलीबॉय अँड पुरोहित यांचा सल्ला घेण्यात यावा. (email id- hiloni@batliboipurohit.com व sneh@batliboipurohit.com)

अतएव, सर्व खाते प्रमुख/सहाय्यक आयुक्त/रुग्णालय अधिष्ठता आणि उपप्रमुख लेखापाल/ लेखा अधिकारी यांनी देयके प्रमाणित करताना व संमत करताना " Point of Taxation in case of change of GST rates (Section 14)" नियमांची नोंद घ्यावी व उपरोक्त निदेशानुसार योग्य ती कार्यवाही करण्याच्या सूचना देण्यात येत आहेत.

(पांडुरंग गोसावी)  
29/06/22

प्रमुख लेखापाल (पापुमनि)

(रामदास आव्हाड)  
29/06/2022

उप आयुक्त (वित्त)

29/06/22 21/07/2022

(प्रदिप पडवळ)  
29/06/22

प्रमुख लेखापाल (वित्त) प्र.

(पी. वेकरासू)  
27/07/22  
अतिसेवक आयुक्त (प्रकल्प)

**BRIHANMUMBAI MAHANAGARPALIKA**

No.Dir/ES&P/291/MC dt.31.01.2023.

**C I R C U L A R**

Sub:- Revision of Unified Schedule of Rates without GST –  
USOR 2023.

Ref:- Hon.M.C.'s sanction under No.MGC/F/8771 dated  
30.01.2023.

With reference to the above mentioned subject, Hon.M.C.'s following orders regarding Unified Schedule of Rates vide above reference shall be scrupulously followed by all the departments of MCGM.

- 1) To start the work of estimation of new projects based on common schedule of rates 2023 and specifications.
- 2) To upload all the new tenders with effect from 1<sup>st</sup> February 2023 based on common schedule of rates 2023 and specifications.
- 3) To take schedule rates from SAP system only while making estimates for their projects.
- 4) To stop using USOR 2018 and fair items prior to January 2023 for new estimates, as these items are inclusive of GST Taxation. Further, if the department feels to use these fair items with same descriptions for new tenders prepared with USOR 2023, then the department should take approval from the competent authority and taking cognizance of GST i.e. without GST.
- 5) All the HODs to upload their respective schedules in SAP through their own E.E.(P) independently.
- 6) All the departments and staff are instructed to take the Activity No., Item Description, Unit and Rate of the item from SAP system only.
- 7) The soft copy in the PDF format should be uploaded by all concerned departments on the portal - mcgm.gov.in under the Unified Schedule of Rates head.

*[Signature]*  
31.1.23  
Director (E.S. & P.)

H.E. / C.E. / Ch.Eng.(Vig.) / Ch.Eng. (B.M.) / Ch.Eng.(Bridges) / Ch.Eng. (S.W.D.) /  
Ch.Eng. (Rds. & Traffic) / Ch.Eng.(S.W.M.) / Ch.Eng. (S.P.) / Ch.Eng. (S.O.) /  
Ch.Eng.(MSDP) / Ch.Eng.(W.S.P.) / Ch.Eng.(M&E) / Ch.Eng.(DP) / Ch.Eng. (CTIRC) /  
Dy.Ch.Eng.(HIC) / Dy.Ch.Eng.(SIC) / M.A. / S.G. / C.A.(Finance) / C.A.(WSSD)

c.c.:- A.C.(Planning) / A.C.(Estates) / A.C.(Market) / Asstt. Commissioners of A, B, C, D, E, F/South, F/North, G/South, G/North, H/East, H/West, K/East, K/West, L, M/East, M/West, N, S, T, P/South, P/North, R/Central, R/South, R/North

Ward Ex.Engineers of A, B, C, D, E, F/South, F/North, G/South, G/North, H/East, H/West, K/East, K/West, L, M/East, M/West, N, S, T, P/South, P/North, R/Central, R/South, R/North

For information and doing needful please.

*Hell*  
31-01-23  
Director (E.S. & P.)

c.c.:- Jt.MC(Vig) / Jt.MC(MCO) / Jt.MC(GA) / Jt.MC(CPD) / Jt.MC (Z-III) / DMC(Infra) / DMC(Engg.) / DMC(SE) / DMC(Env.) / DMC(SWM) / DMC(Finance) / DMC (Garden) / DMC(Z-I) / DMC(Z-II) / DMC(Z-IV) / DMC(Z-V) / DMC(Z-VI) / DMC(Z-VII) / Director (ME & MH) / Dean (KEM) / Dean (Sion) / Dean (Nair)

For information please.

*Hell*  
31-01-23  
Director (E.S. & P.)

c.c.:- A.M.C.(P) / A.M.C.(City) / A.M.C.(E.S.) / A.M.C.(W.S.)  
Sir/Madam,

Submitted for information, please.

*Hell*  
31-01-23  
Director (E.S. & P.)

c.c.:- Hon.M.C.  
Sir,

Submitted please.

*Hell*  
31-01-23  
Director (E.S. & P.)

## बृहन्मुंबई महानगरपालिका परिपत्रक

प्र.ले./वित्त/प्रकल्प/२८ दि. २८/०३/२०२३

विषय: एकसामायिक दरसूची २०२३ अंतर्भूत करून महानगरपालिकेद्वारे हाती घेण्यात येणारी विविध कामे तसेच प्राप्त करण्यात येणा-या वस्तु व सेवा हत्यादीबाबतच्या ई-निविदा/निविदा/दरपत्रक यामध्ये वस्तु व सेवा कराच्या अनुषंगाने अंतर्भूत करावयाच्या अटीबाबत.

संदर्भ: १) प्र.ले./वित्त/प्रकल्प/२५ दि.१२.०७.२०२२

२) संचालक/अ.से.व प्र./२९१/एमसी दि.३१.०१.२०२३

बृहन्मुंबई महानगरपालिकेद्वारे हाती घेण्यात येणारी विविध कामे तसेच प्राप्त करण्यात येणा-या वस्तु व सेवा हत्यादीबाबतच्या ई-निविदा/निविदा/दरपत्रक यामध्ये वस्तु व सेवा कराच्या अनुषंगाने अंतर्भूत करावयाच्या अटीबाबत संदर्भित क्र. १ वरील परिपत्रकान्वये सूचना प्रसृत केल्या आहेत.

महानगरपालिका आयुक्त यांच्या क्र. एमजीसी/एफ/८७७१ दि. ३०.०१.२०२३ अन्वये एकसमान दरसूची २०२३ प्रसारीत करण्यात आली आहे. सदर एकसामायिक दरसूची २०२३ हि वस्तु व सेवाकर वगळून तयार करण्यात आली आहे. सदर अद्ययावत एकसामायिक दरसूची २०२३ नुसार अंदाजपत्रक तयार करून मागविण्यात आलेल्या/येणा-या ई-निविदा/निविदा/दरपत्रक यांमध्ये वस्तु व सेवाकराच्या अनुषंगाने महानगरपालिकेद्वारे हाती घेण्यात येणारी विविध कामे तसेच प्राप्त करण्यात येणा-या वस्तु



व सेवा इत्यादीबाबतच्या ई-निविदा/निविदा/दरपत्रक यामध्ये संदर्भित क्र.१ अन्वये दिलेल्या अटीमध्ये पुढीलप्रमाणे बदल करण्यात येत आहे.

| विद्यमान अट                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | सुधारित अट                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>“GST and other state levies/cess which are not subsumed under GST will be applicable. The tenderer shall quote inclusive of all taxes <u>applicable at the time of bid submission</u>. It is clearly understood that BMC will not bear any additional liability towards payment of any Taxes &amp; Duties.</p> <p>Wherever the services to be provided by the Tenderers, falls under Reverse Charge Mechanism, the Price quoted shall be exclusive of GST, but inclusive of Taxes/Duties/Cess other than GST, if any.</p> <p>Rates accepted by BMC shall hold good till completion of work and no additional individual claim shall be admissible on account of fluctuations in market rates; increase in taxes/any other levies / tolls etc. except that payment/recovery for overall market situation shall be made as per Price variation and if there is any subsequent change (after submission of bid) in rate of GST applicable on the work/services to be executed as per tender, i.e. any increase will be reimbursed by BMC whereas any reduction in the rate of GST shall be passed on to BMC as per the provisions of the GST Act.</p> | <p>The tenderer shall quote inclusive of all taxes other than GST (<b><u>Excluding GST</u></b>), <u>Levies, Duties, Cess etc as applicable at the time of bid submission</u>. GST as applicable shall be paid separately on submission of bills/invoice.</p> <p>Input Tax Credit of GST as available with the bidder will not be claim separately by BMC. However, while quoting the rates benefit of Input Tax Credit or Exemptions shall be passed on to the BMC by way of equivalent reduction in quoted price.</p> |

उपरोक्त सुधारीत अट अद्ययावत एकसामायिक दरसूची २०२३ नुसार अंदाजपत्रक तयार करुन मागविण्यात आलेल्या/ येणा-या हे-निविदा/निविदा/दरपत्रक या कामांकरिता लागू असेल.

अतएव, सध्या ज्या हे-निविदा/निविदा/दरपत्रक एकसामायिक दरसूची २०२३ अंतर्भूत करुन मागविलेल्या आहेत अशा निविदांमध्ये नियत दिनांकापूर्वी शुद्धीपत्रकाद्वारे उपरोक्त सुधारीत अट समाविष्ट करण्याबाबत तसेच यापुढे एकसामायिक दरसूची २०२३ अंतर्भूत करुन मागविण्यात येणा-या हे-निविदा/निविदा/दरपत्रक यांमध्ये उपरोक्त सुधारीत अट समाविष्ट करण्याबाबत संबंधित खातेप्रमुख यांनी दक्षता घ्यावी.

सर्व खातेप्रमुख, रूग्णालयांचे अधिष्ठाता, सहायक आयुक्त, यांनी उपरोक्त सुचनांचे काटेकोरपणे अनुपालन करावे.

सही/- २८/०३/२०२३  
(पांडुरंग गोसावी)  
प्रमुख लेखापाल (पा.पु.म.नि.)

सही/- २८/०३/२०२३  
(प्रदिप पडवळ)  
प्रमुख लेखापाल (वित्त) प्र.

सही/- २८/०३/२०२३  
(रामदास आक्काड)  
उप आयुक्त (वित्त)

सही/- २८/०३/२०२३  
(पी. वेलरासू)  
अतिरिक्त आयुक्त (प्रकल्प)

बृहन्मुंबई महानगरपालिका

परिपत्रक

२०२३-२०२४

क्र. सीए/एफआरजी/०३ दिनांक ११.०५.२०२३

विषय :- महानगरपालिकेच्या विविध खात्यांमार्फत मागविण्यात येणा-या अनस्तर दरपत्रिका/  
निविदा/दरपत्रिका/ ई-दरपत्रिका/ ई-निविदा दस्तऐवजांच्या छाननी शुल्काबाबत

संदर्भ :- १) क्र. प्रले/एफसीई/२८ दि. १३.०१.२०२३

२) क्र.सीए/एफआरजी/२१ दिनांक ०८.०२.२०२३

३) क्र. अति.आ./प्रकल्प/६७१ दि. २७.०४.२०२३

बृहन्मुंबई महानगरपालिकेच्या विविध खात्यांमार्फत मागविण्यात येणाऱ्या अनस्तर दरपत्रिका/निविदा/दरपत्रिका/ ई-दरपत्रिका/ई-निविदा दस्तऐवजांकरिता पक्षकारांकडून आकारण्यात येणारे निविदा शुल्क उपरोक्त संदर्भ क्र. ०२ वरील परिपत्रकानुसार दिनांक ०१.०४.२०२३ पासून दिनांक ३१.०३.२०२४ पर्यंत सुधारीत दराने आकारण्याबाबतचे निर्देश देण्यात आले होते.

उपरोक्त संदर्भित क्र २ चे परिपत्रक क्र.सीए/एफआरजी/२१ दिनांक ०८.०२.२०२३ च्या निदेशांत बदल करून सर्व अनस्तर दरपत्रिका/निविदा/दरपत्रिका/ ई-दरपत्रिका/ ई-निविदा दस्तऐवजांकरिता निविदा शुल्क (Tender Fee) न आकारता सर्व देकारदाराकडून खालील तक्त्यात दर्शविल्यानुसार छाननी शुल्क (Scrutiny Fee) अनुज्ञेय वस्तू व सेवाकरासहित आकारण्याचे सुधारित निर्देश देण्यात येत आहेत. सदर छाननी शुल्क इसारा अनामत रक्कमेचा (EMD) परतावा करण्यापूर्वी नागरी सुविधा केंद्रात चलनाद्वारे भरण्यात यावे अथवा देकारदाराची संमती प्राप्त करून इसारा अनामत रक्कमेमधून छाननी शुल्क समायोजित करावे. महानगरपालिकेचे वस्तू व सेवाकर सल्लागार एकबोटे देशमुख अँड कंपनी यांच्या दि. १८.०४.२०२३ रोजी प्राप्त झालेल्या अभिप्रायानुसार सदर छाननी शुल्कावर (Scrutiny Fee) १८% दराने वस्तू व सेवाकर आकारण्यात यावा.



| अनु क्र. | स्वारस्याची अभिव्यक्ती<br>प्रस्ताव/ मालाचा पुरवठा/<br>सल्लागार सेवासह स्थापत्य<br>कामे आणि सेवा इत्यादी<br>विषयक कार्यालयीन अंदाजे<br>रक्कम | अनस्टार<br>दरपत्रिका/निविदा/दरपत्रिका/ ई-<br>दरपत्रिका/ ई-निविदा दस्तऐवजांचे<br>विद्यमान शुल्क ( दि. ०१.०४.२०२३<br>पासून)                                                                                                                 | मंजुरीच्या दिनांकापासून मागविण्यात<br>येणाऱ्या अनस्टार<br>दरपत्रिका/निविदा/दरपत्रिका/ ई-<br>दरपत्रिका/ ई-निविदा दस्तऐवजांचे<br>सर्व देकारदारांकडून वसूल<br>करावयाचे प्रस्तावित छाननी शुल्क |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ०१       | रु. ०३ लाखापर्यंत                                                                                                                           | रु. ०३ लाखापर्यंत रु. २४२/-<br>अधिक वस्तु व सेवाकर                                                                                                                                                                                        | रु. ३००/- + १८% वस्तु व सेवाकर                                                                                                                                                             |
| ०२       | रु. ३,००,००१/- ते रु.<br>५,००,०००/-                                                                                                         | कार्यालयीन अंदाजाच्या ०.१२%<br>(अशी येणारी रक्कम पुढील<br>शंभराच्या पटीत परिवर्तित करणे<br>यासापेक्ष) अधिक वस्तु व सेवाकर<br>(म्हणजेच कमीत कमी रु. ३६०/-<br>अधिक वस्तु व सेवाकर आणि<br>जास्तीत जास्त रु. ११,५००/-<br>अधिक वस्तु व सेवाकर) | रु. ६००/- + १८% वस्तु व सेवाकर                                                                                                                                                             |
| ०३       | रु. ५,००,००१/- ते रु.<br>१०,००,०००/-                                                                                                        | वरील प्रमाणे                                                                                                                                                                                                                              | रु. १,२००/- + १८% वस्तु व सेवाकर                                                                                                                                                           |
| ०४       | रु. १०,००,००१/- ते रु.<br>२५,००,०००/-                                                                                                       | वरील प्रमाणे                                                                                                                                                                                                                              | रु. ३,०००/- + १८% वस्तु व सेवाकर                                                                                                                                                           |
| ०५       | रु. २५,००,००१/- ते रु.<br>५०,००,०००/-                                                                                                       | वरील प्रमाणे                                                                                                                                                                                                                              | रु. ६,०००/- + १८% वस्तु व सेवाकर                                                                                                                                                           |

|    |                                            |              |                                     |
|----|--------------------------------------------|--------------|-------------------------------------|
| ०६ | रु. ५०,००,००१/- ते रु.<br>१,००,००,०००/-    | वरील प्रमाणे | रु.१२,०००/- + १८% वस्तू व सेवाकर    |
| ०७ | रु. १,००,००,००१/- ते रु.<br>२५,००,००,०००/- | वरील प्रमाणे | रु.१५,०००/- + १८% वस्तू व सेवाकर    |
| ०८ | रु. २५,००,००,००१/- पेक्षा<br>जास्त         | वरील प्रमाणे | रु.२५,०००/- + १८% वस्तू व<br>सेवाकर |

अनस्टार दरपत्रिका/ निविदा/ दरपत्रिका/ ई-दरपत्रिका/ई-निविदा दस्तऐवजांकरिता छाननी शुल्काचे सुधारीत दर मंजुरी दिनांकापासून ते दिनांक ३१.०३.२०२४ पर्यंत अमलात येतील.

तरी सर्व खाते प्रमुख/सहाय्यक आयुक्त/रुग्णालय प्रमुख, अधिष्ठाता यांनी त्यांच्या अखत्यारीतील संबंधित कर्मचारीवृंदाना उपरोक्त सुचनेची काटेकोरपणे अंमलबजावणी करण्याचे तसेच मंजुरीच्या दिनांकापासून मागविण्यात येणाऱ्या अनस्टार दरपत्रिका/ निविदा/ दरपत्रिका/ ई-दरपत्रिका/ई-निविदा दस्तऐवजांकरिता निविदा शुल्क न आकारता सर्व देकारदारांकडून या परिपत्रकातील सुधारीत दरांनुसार इसारा अनामत रक्कमेचा परतावा करण्यापूर्वी छाननी शुल्क अनुज्ञेय वस्तू व सेवाकरासहित वसूल करण्याचे अथवा देकारदाराच्या संमतीने इसारा अनामत रक्कमेतून समायोजित करण्यासंबंधीचे निदेश द्यावेत.

सही/- २८.०४.२०२३  
श्री.पांडुरंग गोसावी  
प्रमुख लेखापाल (पा.पु.म.नि.)

सही/- २८.०४.२०२३  
श्री. प्रदिप भा. पडवळ  
प्रमुख लेखापाल (वित्त)प्र.

सही/- २८.०४.२०२३  
श्री. रामदास आव्हाड  
उप. आयुक्त (वित्त)

सही/- ०२.०५.२०२३  
श्री. पी. वेलरासू  
अति.आयुक्त (प्रकल्प)

सही/- १०.०५.२०२३  
श्री. इ.सिं. चहल  
महापालिका आयुक्त

परिपत्रक

२०२२-२३

क्र.सीए/एफआरजी/०३ दिनांक ११.०५.२०२३

प्रत .....(जादा .....प्रतीसह ) यांना माहितीकरिता व पुढील  
आवश्यक त्या कार्यवाहीकरिता अग्रेषित

*Prasanna*  
०१/०५/२३  
प्रमुख लेखापाल (वित्त) यांजकरिता

**SECTION 22**  
**END OF**  
**DOCUMENT**