

Tender ID: 2024_MCGM_1032332

Website: https://mahatenders.gov.in

Name of Work: Work of Re-Validation Survey of sewer network of entire Mumbai and data updation in GIS of S.O. department

Website: https://portal.mcgm.gov.in

Office of:-

Ex. Engg. (S.O.) Trg & SUMC Sewerage Operation Building,3rd Floor, Dadar Pumping Station Complex, 249, Senapati Bapat Marg, Dadar(West), Mumbai – 400028

Prepared By	Checked By	Verified By	Approved By
Sd/-(22/02/2023) A.E.(SO) G.I.S.	Sd/-(23/02/2023) E. E. (SO) Trg. & SUMC	Sd/-(23/02/2023) Dy.Ch.E.(S.O.) P&C.	Sd/-(23/02/2023) Ch.E.(S.O.)

BRIHANMUMBAI MUNICIPAL CORPORATION

Chief Engineer (Sewerage Operations)

TENDER DOCUMENT FOR

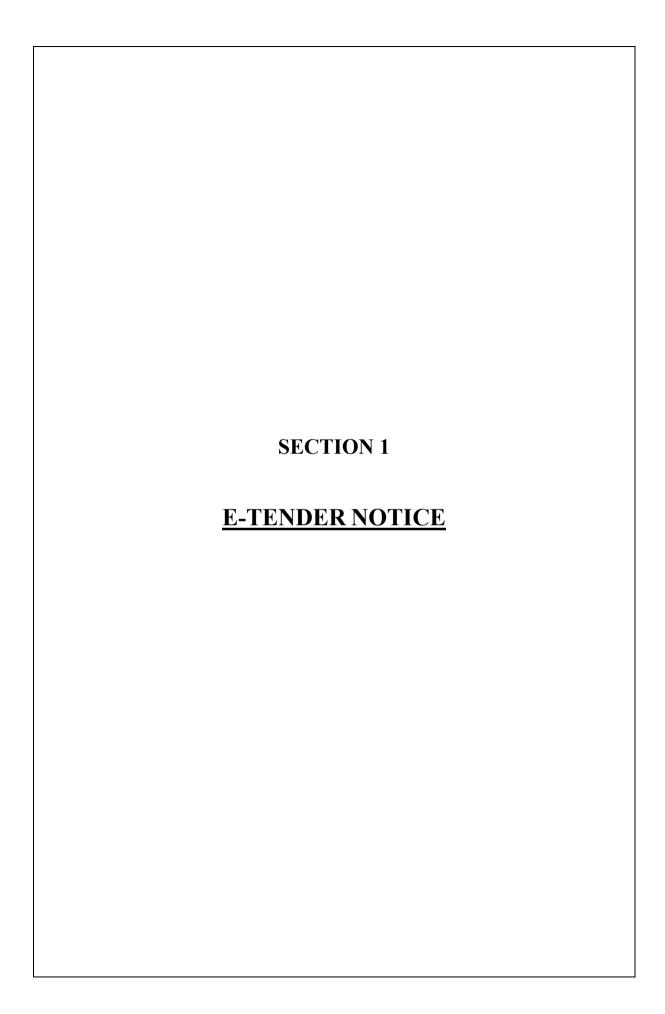
Name of Work: Work of Re-Validation Survey of sewer network of entire Mumbai and data updation in GIS of S.O. department

Tender ID: 2024 MCGM 1032332 due on: 16 April 2024

- 1. Tender shall be submitted through internet on e-procurement system of Government of Maharashtra (Mahatenders) (https://www.mahatenders.gov.in), i.e., to upload the scanned copies of documents of Packet A, Packet-B & Packet-C in the prescribed Proforma required in the e-Tender up to 4.00 p.m. on or before due date of tender, as per section 6 of the tender. (Please refer clause for submission of EMD online under packet C section 6 of Instruction to Tenderer).
- 2. Tenderer shall read all the clauses/sub clauses of the Section 6 of the tender before submitting the tender.

INDEX

SECTION	DESCRIPTION	PAGE NO.
1	E-TENDER NOTICE	4-8
2	ELIGIBILITY CRITERIA	9-15
3	DISCLAIMER	16-18
4	INTRODUCTION	19-20
5	E-TENDER ONLINE SUBMISSION PROCESS	21-24
6	INSTRUCTIONS TO APPLICANTS	25-56
7	SCOPE OF WORK	57-58
8	BILL OF QUANTITIES	59-60
9	GENERAL CONDITIONS OF CONTRACT	61-111
10	TECHNICAL SPECIFICATIONS	112-128
11	FRAUD AND CORRUPT PRACTICES	129-132
12	PRE-BID MEETING	133-134
13	LIST OF APPROVED BANKS	135-137
14	<u>APPENDIX</u>	138-164



BRIHANMUMBAI MUNICIPAL CORPORATION

Chief Engineer (Sewerage Operations)

Tender ID: 2024_MCGM_1032332

E-TENDER NOTICE

Sub: Work of Re-Validation Survey of sewer network of entire Mumbai and data updation in GIS of S.O. department

The Brihanmumbai Municipal Corporation (BMC) invites e-tender to appoint Contractor for the aforementioned work from 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, (BMC) in Class 'A' 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 Public Sector Undertakings, will be allowed subject to condition that, the contractors who are not registered with BMC will have to apply for registering their firm in class 'A' 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 an amount equal to Registration Fee of 'A' class will be recovered as penalty.

The bidder must be a firm dealing in this line. Documentary evidence must be submitted along with tender, in this regards. Failing which the bidder shall be treated as Non Responsive.

Bidding Process will comprise of THREE stages.

The Tender form can be downloaded from e-Procurement system of Government of Maharashtra (Mahatenders)(https://mahatenders.gov.in). The scrutiny fees of Rs. 15000/-+ Taxes (9% SGST+ 9% CGST) as mentioned in Header Data shall be paid through challan in BMC's CFCs and follow guidelines as per circular no. CA/FRG/03 dt 11.05.2023. 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 of Government of Maharashtra(Mahatenders)(https://mahatenders.gov.in)

Interested bidders should have valid Class III digital signature certificate (DSC) obtained from any licensed certifying authority. Interested bidders should follow the manuals available on Mahatenders Portal (https://mahatenders.gov.in)

Name and location of work	Contract Period	Estimated Cost of Project
Work of Re-Validation Survey of sewer network of entire Mumbai and data updation in GIS of S.O. department	12 month (Excluding Monsoon)	Item Rate Tender

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. 7,36,600/-(Rs. Seven Lakhs Thirty Six Thousand Six 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. A tenderer shall pay entire amount of EMD through payment gateways of GoM on URL http://mahatenders.gov.in. The bidder shall upload scan copy of online paid EMD along with the bid submission in packet 'A'.

Any bid not accompanied by an acceptable Bid Security shall be rejected by the Employer as non-responsive. The e-tender is available on e-Procurement system of Government of Maharashtra (Mahatenders)(https://mahatenders.gov.in) as mentioned in the Header Data of the tender.

As per THREE Packet systems, the document for Packet A & B is to be uploaded by the bidder in vendors' document online in Packet A, B. 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 Ex. Engg. (S.O.)Trg & SUMC.

The bidders getting qualifying in Eligibility Criteria have to present a Technical Presentation of the proposed execution scheme of the project. The Evaluation Committee of BMC will technically evaluate the proposal and marks would be offered accordingly. Following is methodology of the marking system,

Sr.No.	Parameters	
A.	Financial Capabilities of the Bidder	15
3.	Bidder Competence and Relevant Experience	45
C.	Quality of Technical Proposal & Survey Equipment	25

E.	Technical Presentation Total Marks	10 100
D. F	Manpower proposed as per requirement Technical Presentation	5

Selection Criteria

Bidders need to score minimum 60 marks to get technically qualified and be eligible for Commercial Bid Opening. The Packet C of the respective bidders will be opened only if bidder scores 60 marks or above in the evaluation process.

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

The date 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 BMC Portal.(http://portal.mcgm.gov.in)

The Applicants interested for the above referred works may contact the office of **Ex. Engg.(S.O.)Trg & SUMC** at the following address on any working day during office hours.

Office of: Ex. Engg.(S.O.)Trg & SUMC
Sewerage Operation Building, 3rd Floor,
Dadar Pumping Station Complex,
249, Senapati Bapat Marg,
Dadar (West), Mumbai - 400028

The applicants may wish to visit the site under reference, located at above referred address, 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)(https://mahatenders.gov.in)

Sd/-(23/02/2023)

Deputy Chief Engineer (Sewerage Operations) Planning & Construction

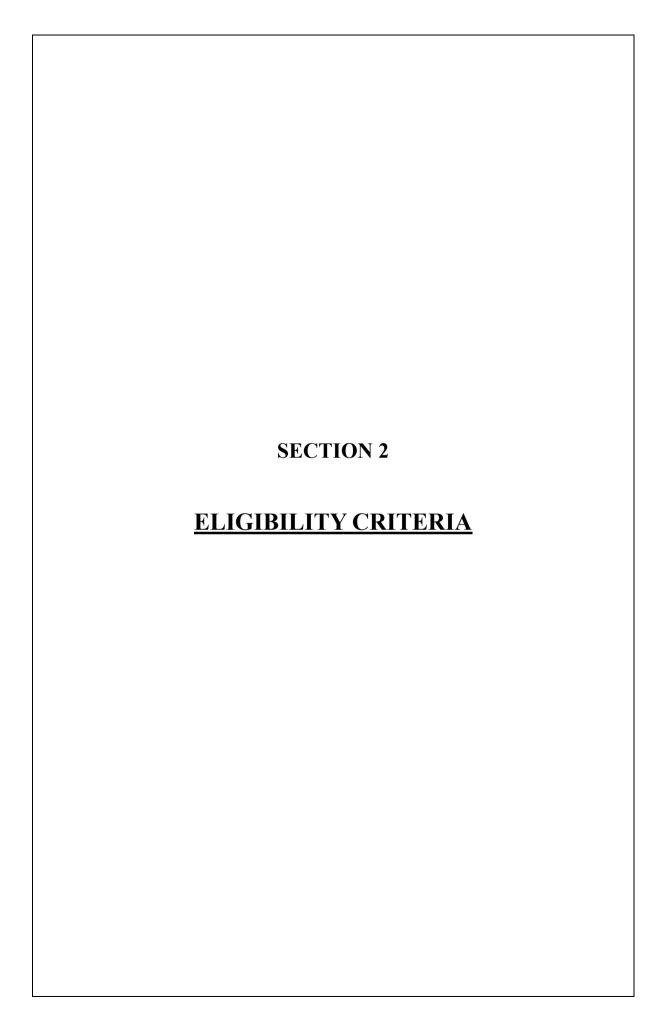
HEADER DATA

Tender ID		
Name of Organization	Brihanmumbai Municipal Corporation	
Subject	Work of Re-Validation Survey of sewer network of entire Mumbai and data upda GIS of S.O. department	tion in
Scrutiny Fee	Rs. 15000 /- +(18 % GST) to be paid at CFC centre before opening of packet C.	C
Cost of E-Tender(Estimated Cost)	N.A. (Item Rate Tender)	
Bid Security Deposit/ EMD	Rs.7,36,600/-	
Date of issue and sale of tender	13.03.2024 from 11:00 Hrs	
Last date & time for sale of tender	16.04.2024 up to 12:00 Hrs	
Submission of Packet A, B & Packet C (Online) & Receipt of Bid Security Deposit	16.04.2024 up to 16:00 Hrs	
Pre Bid Meeting	22.03.2024 from 11:00 Hrs in conference room of Ch.E.(S.O.), B.M.C., 1 st floor, Engineering Hub Building, Dr. E. Moses Ros Worli Naka, Worli, Mumbai 400018	
Opening of Packet A	18.04.2024 after 16:01 Hrs	
Opening of Packet B	18.04.2024 after 16:10 Hrs	
Opening of Packet C	29.04.2024 after 15:00 Hrs	
Address for communication	Office of the:- Ex. Engg.(S.O.)Trg & SUMC Sewerage Operation Building,3 rd Floor, Dadar Pumping Station Complex, 249, Senapati Bapat Marg, Dadar(West), Mumbai - 400028	
Venue for opening of bid	Office of: Ex. Engg.(S.O.)Trg & SUMC	

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.

Sd/-(23/02/2023)

Deputy Chief Engineer
(Sewerage Operations) Planning & Construction



ELIGIBILITY Criteria

Sr.	Qualification Criteria	Documentary Evidence
1.	The Bidder must be a company in India registered under the Company's Act 1956/2013 or a Partnership Firm registered under Indian Partnership Act, 1932 or a Proprietorship firm.	Certified copy of Partnership Deed/Certified copy of Certificate of Incorporation/ Registration Certificate.
2.	The Average Annual Turnover of the bidder in the last three financial years from Survey/ GIS projects/GIS services should be 25 Crore	Copy of the audited Balance Sheet and Profit & Loss Statement of the company and/or Certificate from the Chartered Accountant clearly stating the average annual turnover from Survey/ GIS projects/GIS services over the last three financial years.
3.	The Bidder should have positive net worth in last three financial years.	Certificate from the Chartered Accountant clearly stating the positive net worth.
4.	The Bidder should have executed or currently executing DGPS (Differential Global Positioning System) survey projects for Asset mapping / Utility mapping for Government/ PSU client of below mentioned specifications in last Five financial years in India a. At least one project with a 30,000 DGPS points OR b. At least two projects with a 15,000 DGPS points OR c. At least three projects with 10,000 DGPS points	Completed Projects: Work Order & Work Completion certificate signed by a competent authority clearly stating the scope of the project, completion of the project and contact details of reference person. Ongoing Projects: Work Order signed by a competent authority clearly stating the scope of the project and contact details of reference person. Certificate signed by a competent authority clearly stating that the project has reached overall Go-Live stage of the project (not specific module) and 75% of the payment of the total project amount has been released to the vendor.
5.	with a value not less than ₹6.5 crore OR	Completed Projects: Work Order & Work Completion certificate signed by a competent authority clearly stating the scope of the project, completion of the project and contact details of reference person. Ongoing Projects: Work Order signed by a competent authority clearly stating the scope of the project and contact details of reference person. Certificate signed by a competent authority clearly stating that the project has reached overall Go-Live stage of the project (not specific module) and 75% of the payment of the total project amount has been released to the vendor.

6	The Didden about 1 to	Completed Projects:
6.	The Bidder should have executed or currently executing data preparation and finalization of GIS data for integration with an existing Enterprise GIS application* (refer note A below) with any Government/ Semi Government/ PSU and on a of below mentioned value in last Five financial years in India: At least one project with a value not less than ₹2 crore OR At least two projects with a value not less than ₹1 crore each	Completed Projects: Work Order & Work Completion certificate signed by a competent authority clearly stating the scope of the project, completion of the project and contact details of reference person. Ongoing Projects: Work Order signed by a competent authority clearly stating the scope of the project and contact details of reference person. Certificate signed by a competent authority clearly stating that the project has reached overall Go-Live stage of the project (not specific module) and 75% of the payment of the total project amount has been released to the vendor. Notes:
		 Those projects with scope only for supply of COTS GIS/ RS products will not be considered. Those projects with scope only for Survey will not be considered.
7.	The Bidder should have ISO 45001: 2018 valid certification. Additionally, the bidder may have any one or both the following valid certification: ISO 9001:2015 or ISO 27001:2013.	Self-attested Copy of valid certificate of ISO certifications.
8.	The Bidder should have or shall be ready to set up a project office in Mumbai Metropolitan Region (MMR).	Rental Agreement/ Utility Bill in the name of the company/ Sale Deed or Declaration that the office will be set-up within a period of 30 days from the date of issuance of Letter of Intent/ Acceptance.
9.	The Bidder should have valid documentary proof of GST registration number and PAN	Self-attested Copy of GSTIN Number and PAN card
10.	The Bidder should have valid Income Tax returns for the last three financial years	Self-attested Copy of Income Tax Returns for the last three financial years
11.	The Bidder should not have been involved in fraudulent cases or should not have been blacklisted by Central Government or any State Government organization / department in India at the time of submission of the Bid	
12.	The Bidder should possess valid registration certificate under E.P.F & M.P, Act 1952 & ESIC certificate Act 1948	Copy of Registration with EPF and ESIC certificate.

Similar Experience:-

Data preparation and finalization of GIS data for integration with an existing Enterprise GIS application:- Projects involving Geospatial data creation from Total Station Survey, DGPS survey, GPR survey, LiDAR/Aerial/ Drone survey for Utilities like Water pipeline, Sewer water, Storm Water, Electric, Gas pipeline with development, implementation & maintenance of Enterprise GIS solution for State Government, Central Government & Public Sector Units in India.

2. Technical evaluation Criteria

Please note that the bidder has to qualify in the technical evaluation criteria for opening of his commercial bid. Technical Evaluation of the bids would be carried out on five broad parameters as given below:-

Sr.No.	Parameters				
A.	Financial Capabilities of the Bidder	15			
B.	Bidder Competence and Relevant Experience	45			
C.	Quality of Technical Proposal & Survey Equipment	25			
D.	Manpower proposed as per requirement	5			
E.	Technical Presentation				
	Total Marks	100			

Selection Criteria

- 1. Bidders need to score minimum 60 marks to get technically qualified and be eligible for Commercial Bid Opening. Bidders scoring less than 60 marks would be disqualified from the process. Their C-packet won't be opened.
- 2. After technical evaluation commercial C-packet of all qualified bidders would be opened.

Sr. No.	Technical Evaluation Parameter	Max. Marks	Point System / Criteria	Supporting Documents
	Financial	15	<u> </u>	Copy of the audited Profit
	Capabilities of		3 /	and Loss Statement of
	the Bidder		projects/GIS services of the last	the company and
			three financial years	Certificate from the
				Chartered Accountant
			₹ >= 25 Crore and <= 30 Crore -	clearly stating the
			5 marks	turnover from Survey/
				GIS projects/ GIS
			₹ > 30 Crore and <= 35 Crore -	services of last three
			10 marks	financial years.
			₹ > 40 Crore– 15 marks	

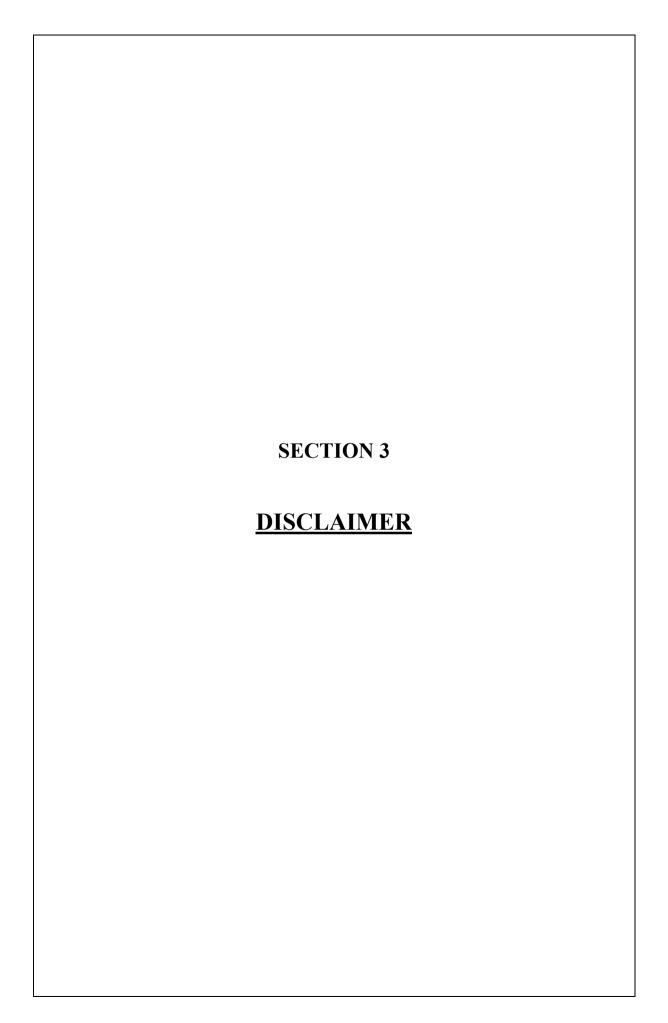
B1	Bidder	20	The Bidder should have	Completed Projects:
	Competence		executed or currently	Work Order & Work
	and Relevant		executing DGPS survey	Completion certificate
	Experience:		projects for Asset mapping /	signed by a competent
	Capability of		Utility mapping for	authority clearly
	the Bidder to		Government/ PSU client of	stating the scope of
	execute DGPS		below mentioned	the project, completion
	Survey		specifications in last Five	of the project and
	Survey		financial years in India	contact details of
			~	
			a. One Project with 30,000	reference person.
			DGPS points = (max 12 marks)	Ongoing Projects:
			1 7 11 15 000	Work Order signed by a
			b. Two projects with 15,000	competent authority
			`	clearly stating the scope
			max 5 marks)	of the project and
				contact details of
			c. Three projects with	reference person.
			10,000 DGPS points = (1 mark	Certificate signed by a
			each & max 3 marks)	competent authority
				clearly stating that the
				project has reached
				overall Go-Live stage of
				the project (not specific
				module) and 75% of the
				payment of the total
				project amount has been
				released to the vendor.
B2	Bidder	20	The Bidder should have	
DΖ		20		Completed Projects: Work Order & Work
	Competence and Relevant		executed or currently	
			executing data preparation	Completion certificate
	Experience:		and finalization of GIS data	signed by a competent
			for integration with an	
	Capability of		_	authority clearly stating
	the Bidder to		existing Enterprise GIS	the scope of the project,
	the Bidder to execute GIS		existing Enterprise GIS application*	the scope of the project, completion of the project
	the Bidder to execute GIS application for		existing Enterprise GIS	the scope of the project, completion of the project and contact details of
	the Bidder to execute GIS		existing Enterprise GIS application* (refer note B below)	the scope of the project, completion of the project and contact details of reference person.
	the Bidder to execute GIS application for		existing Enterprise GIS application* (refer note B below) with any Government/ Semi	the scope of the project, completion of the project and contact details of reference person. Ongoing Projects:
	the Bidder to execute GIS application for		existing Enterprise GIS application* (refer note B below) with any Government/ Semi Government/ PSU and on a	the scope of the project, completion of the project and contact details of reference person. Ongoing Projects: Work Order signed by
	the Bidder to execute GIS application for		existing Enterprise GIS application* (refer note B below) with any Government/ Semi Government/ PSU and on a of below mentioned value in	the scope of the project, completion of the project and contact details of reference person. Ongoing Projects: Work Order signed by a competent authority
	the Bidder to execute GIS application for		existing Enterprise GIS application* (refer note B below) with any Government/ Semi Government/ PSU and on a of below mentioned value in last Five financial years in	the scope of the project, completion of the project and contact details of reference person. Ongoing Projects: Work Order signed by a competent authority clearly stating the
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	the Bidder to execute GIS application for		existing Enterprise GIS application* (refer note B below) with any Government/ Semi Government/ PSU and on a of below mentioned value in last Five financial years in India: At least one project with a	the scope of the project, completion of the project and contact details of reference person. Ongoing Projects: Work Order signed by a competent authority clearly stating the scope of the project and contact details of
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	the Bidder to execute GIS application for		existing Enterprise GIS application* (refer note B below) with any Government/ Semi Government/ PSU and on a of below mentioned value in last Five financial years in India: At least one project with a value not less than ₹2 crore =	the scope of the project, completion of the project and contact details of reference person. Ongoing Projects: Work Order signed by a competent authority clearly stating the scope of the project and contact details of reference person.
	the Bidder to execute GIS application for		existing Enterprise GIS application* (refer note B below) with any Government/ Semi Government/ PSU and on a of below mentioned value in last Five financial years in India: At least one project with a value not less than ₹2 crore = (Total 10 marks)	the scope of the project, completion of the project and contact details of reference person. Ongoing Projects: Work Order signed by a competent authority clearly stating the scope of the project and contact details of reference person. Certificate signed by a
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	the Bidder to execute GIS application for		existing Enterprise GIS application* (refer note B below) with any Government/ Semi Government/ PSU and on a of below mentioned value in last Five financial years in India: • At least one project with a value not less than ₹2 crore = (Total 10 marks) • At least two projects with a value not less than ₹1 crore = 5 marks for each project (Total 10	the scope of the project, completion of the project and contact details of reference person. Ongoing Projects: Work Order signed by a competent authority clearly stating the scope of the project and contact details of reference person. Certificate signed by a competent authority clearly stating that the project has reached overall Go-Live stage
	the Bidder to execute GIS application for		existing Enterprise GIS application* (refer note B below) with any Government/ Semi Government/ PSU and on a of below mentioned value in last Five financial years in India: At least one project with a value not less than ₹2 crore = (Total 10 marks) At least two projects with a value not less than ₹1 crore = 5	the scope of the project, completion of the project and contact details of reference person. Ongoing Projects: Work Order signed by a competent authority clearly stating the scope of the project and contact details of reference person. Certificate signed by a competent authority clearly stating that the project has reached overall Go-Live stage of the project (not
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ВЗ	Certifications	5	Bidder should have valid ISO 45001: 2018 certification – (3 marks) ISO 9001:2015 certification – (1 mark) ISO 27001:2013 – (1 mark)	Self-attested Copy ovalid certificate of ISO certifications
C	Quality of Technical Proposal & Survey Equipment	25	,	
			successfully - (5 marks)	

D Manpower	5	Following is the list of resources	Certificate from HR for all
proposed as per requirement		which should be working on the company payroll of bidder. 10 Surveyors – 1mark 4 Civil Engineer – 1mark 4 GIS Analyst - 1mark 1 GIS database administrator – 1 mark 2 GIS developers – 1 mark	types of resources with experience and complete resumes of the proposed resources.
E Technical Presentation and clarifications / answers given to the TEC during presentation by the Bidder		The bidder shall prepare a presentation on the technical proposal detailing the scope of work, approach, methodology, timelines, compliance with SLA & demo. The Bid Evaluation Committee shall evaluate the presentation based on the following criteria – • Understanding of the current scope of work – 2 marks • Project Management methodology covering timelines, milestones, envisaged risks, mitigation plan, survey methodology – 3 marks • Demonstration of any utilities GIS application with relevant attributes – 5 marks	Technical presentation & demo to be given to BEC as per the time slot provided by MCGM.
Total Marks	100		

Similar Experience:

Data preparation and finalization of GIS data for integration with an existing Enterprise GIS application: Projects involving Geospatial data creation from Total Station Survey, DGPS survey, GPR survey, LiDAR/Aerial/ Drone survey for Utilities like Water pipeline, Sewer water, Storm Water, Electric, Gas pipeline with development, implementation & maintenance of Enterprise GIS solution for State Government, Central Government & Public Sector Units in India.



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 (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 (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 (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 (BMC) accepts no responsibility for the accuracy or otherwise for any interpretation or opinion on law expressed here.

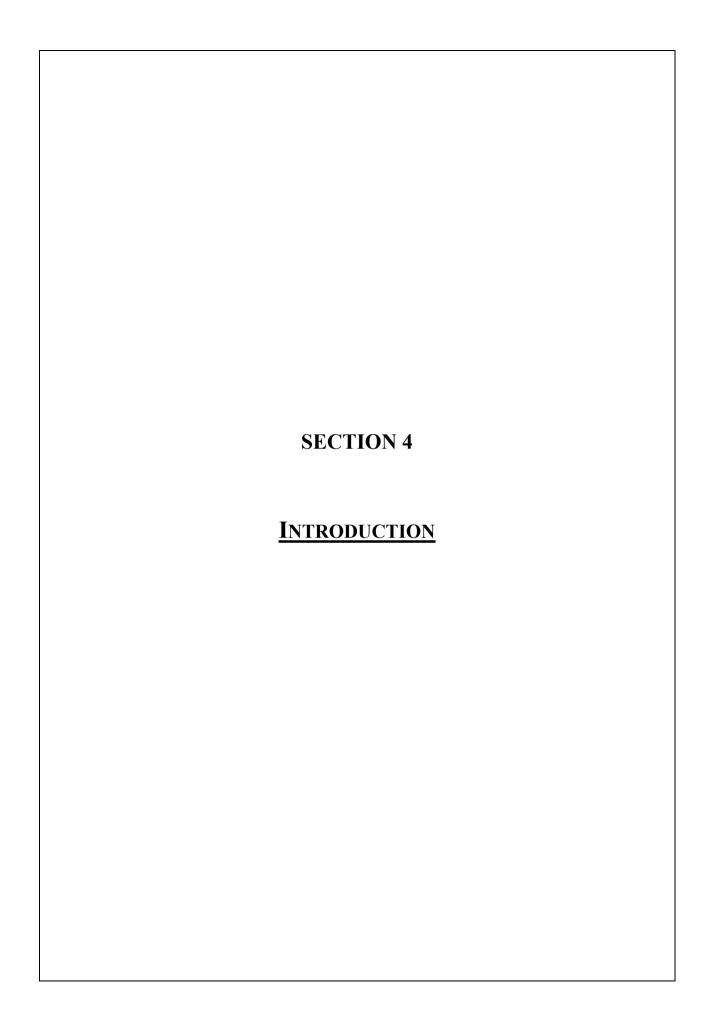
The Brihanmumbai Municipal Corporation (BMC), its employees and advisors make no representation or warranty and shall have no liability to any person, including any applicant or Bidder, under any law, statute, rules or regulations or tort, principles of restitution or unjust enrichment or otherwise for 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 (BMC) also accepts no liability of any nature whether resulting from negligence or there wise howsoever caused arising from reliance of any Applicant upon the statements contained in this e-tender.

The Brihanmumbai Municipal Corporation (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 (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 (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 (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 (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.



INRODUCTION

Background:

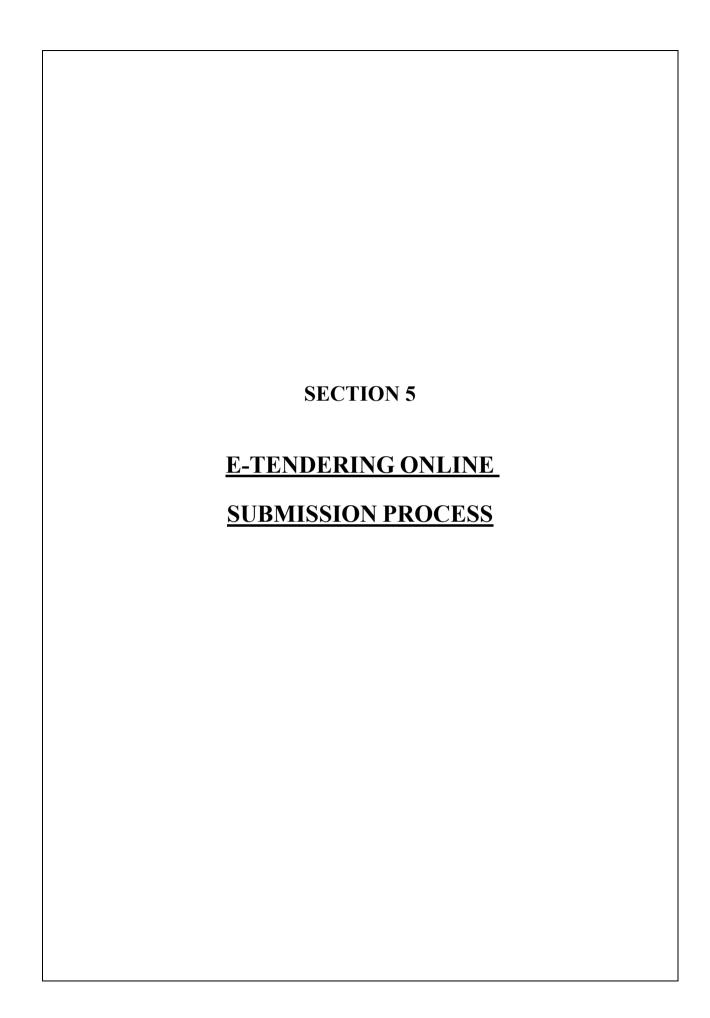
The Brihanmumbai Municipal Corporation covers an area of 437.71 sq. kms. with a population of 1.24 Crores as per census of 2011. The metropolis accounts major portion of India's international trade and government's revenue, from being one of the foremost centers of education, science and technological 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 (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. and other such departments where quite a good number of staff members are working.

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 delivered to the public by different departments like Water Supply Projects, Sewerage, Hydraulics, Storm Water Drain, Roads and bridges and Building Construction etc.



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 enrol themselves on the website https://mahatenders.gov.in using the option "Online Bidder Enrolment". 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.

<u>Special Instructions to the Contractors/Bidders for the e-submission of the bids online through</u> this eProcurement Portal

- 1. Bidder should do Online Enrolment in 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 Scrpt/ 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.

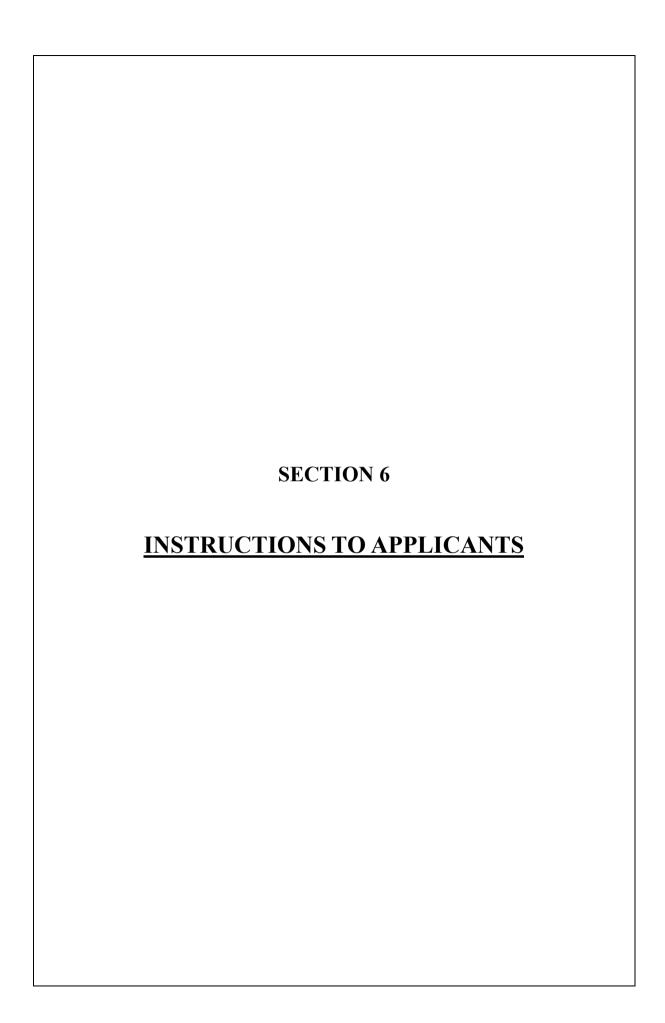
- 7. Applicant will upload Packet A documents in cover 1 "Fee" and Packet B related Documents in cover 2 "PQC" respectively.
- 8. The BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns in the uploaded BOQ, else the bidder is liable 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 e-Procurement 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 receipt 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) (https://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



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 (BMC) invites e-tender to appoint Contractor for the aforementioned work from 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 (BMC) in Class "A" 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 Public Sector Undertakings, 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 an amount equal to Registration Fee of respective class will be recovered as penalty.

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

2. Eligibility Criteria

(Considering Original and New Work)

2.1. Technical Capacity

Sr. No.	Qualification Criteria	Documentary Evidence		
1.	The Bidder must be a company	Certified copy of Partnership		
	in India registered under the	ne Deed/Certified copy of Certificate of		
	Company's Act 1956/2013 or a	Incorporation/ Registration Certificate		
	Partnership Firm registered			
	under Indian Partnership Act,			
	1932 or a Proprietorship firm.			

Sr. No.	Qualification Criteria	Documentary Evidence
2.	The Average Annual Turnover of the bidder in the last three financial years from Survey/ GIS projects/GIS services should be 25 Crore	Copy of the audited Balance Sheet and Profit & Loss Statement of the company and/or Certificate from the Chartered Accountant clearly stating the average annual turnover from Survey/ GIS projects/GIS services over the last three financial years.
3.	The Bidder should have positive net worth in last three financial years.	Certificate from the Chartered Accountant clearly stating the positive net worth.
4.a.	30,000 DGPS points OR	Completed Projects: Work Order & Work Completion certificate signed by a competent authority clearly stating the scope of the project, completion of the project and contact details of reference person. Ongoing Projects: Work Order signed by a competent authority clearly stating the scope of the project and contact details of reference person. Certificate signed by a competent authority clearly stating that the project has reached overall Go-Live stage of the project (not specific module) and 75% of the payment of the total project amount has been released to the vendor.

Sr. No.	Qualification Criteria	Documentary Evidence
4.b.	with a value not less than ₹6.5 crore OR	Completed Projects: Work Order & Work Completion certificate signed by a competent authority clearly stating the scope of the project, completion of the project and contact details of reference person. Ongoing Projects: Work Order signed by a competent authority clearly stating the scope of the project and contact details of reference person. Certificate signed by a competent authority clearly stating that the project has reached overall Go-Live stage of the project (not specific module) and 75% of the payment of the total project amount
4.c.	d. At least three projects with a with a value not less than ₹3.5 crore The Bidder should have executed or currently	has been released to the vendor. Completed Projects: Work Order & Work Completion certificate
	executing data preparation and finalization of GIS data for integration with an existing Enterprise GIS application* (refer note C below) with any Government/ Semi Government/ PSU and on a of below mentioned value in last Five financial years in	signed by a competent authority clearly stating the scope of the project, completion of the project and contact details of reference person. Ongoing Projects: Work Order signed by a competent authority clearly stating the scope of the project and contact details of reference
	India: • At least one project with a value not less than ₹2 crore OR • At least two projects with a value not less than ₹1 crore each	person. Certificate signed by a competent authority clearly stating that the project has reached overall Go-Live stage of the project (not specific module) and 75% of the payment of the total project amount has been released to the vendor. Notes: Those projects with scope only for supply of COTS GIS/ RS products will not be considered. Those projects with scope only for Survey will not be considered.

Sr. No.	Qualification Criteria	Documentary Evidence
5.	The Bidder should have ISO 45001: 2018 valid certification. Additionally, the bidder may have any one or both the following valid certification: ISO 9001:2015 or ISO 27001:2013.	Self-attested Copy of valid certificate of ISO certifications.
6.	The Bidder should have or shall be ready to set up a project office in Mumbai Metropolitan Region (MMR).	Rental Agreement/ Utility Bill in the name of the company/ Sale Deed or Declaration that the office will be set-up within a period of 30 days from the date of issuance of Letter of Intent/ Acceptance.
7.	The Bidder should have valid documentary proof of GST registration number and PAN	Self-attested Copy of GSTIN Number and PAN card
8.	The Bidder should have valid Income Tax returns for the last three financial years	Self-attested Copy of Income Tax Returns for the last three financial years
9.	The Bidder should not have been involved in fraudulent cases or should not have been blacklisted by Central Government or any State Government organization / department in India at the time of submission of the Bid	Self-attested Declaration by the Bidder as per format given in the bid document.
10.	The Bidder should possess valid registration certificate under E.P.F & M.P, Act 1952 & ESIC certificate Act 1948	Copy of Registration with EPF and ESIC certificate.

2.1.1 Technical evaluation Criteria

Please note that the bidder has to qualify in the technical evaluation criteria for opening of his commercial bid. Technical Evaluation of the bids would be carried out on five broad parameters as given below:-

#	Parameters	Marks
A.	Financial Capabilities of the Bidder	15
В.	Bidder Competence and Relevant Experience	45
С	Quality of Technical Proposal & Survey Equipment	25
D.	Manpower proposed as per requirement	5
E.	Technical Presentation	10
	Total Marks	100

2.1.2 Selection Criteria

- 1. Bidders need to score minimum 60 marks to get technically qualified and be eligible for Commercial Bid Opening. Bidders scoring less than 60 marks would be disqualified from the process. Their C-packet won't be opened.
- 2. After technical evaluation commercial C-packet of all qualified bidders would be opened.

Sr. No.	Technical Evaluation Parameter	Max. Marks	Point System / Criteria	Supporting
A	Financial Capabilities of the Bidder	15	Average Annual Turnover of Bidder from Survey/ GIS projects/GIS services of the last three financial years ₹ >= 25 Crore and <= 30 Crore – 5 marks ₹ > 30 Crore and <= 35 Crore – 10 marks ₹ > 40 Crore – 15 marks	Copy of the audited Profit and Loss Statement of the company and Certificate from the Chartered Accountant clearly stating the turnover from Survey/GIS projects/GIS services of last three financial years.
B1	Bidder Competence and Relevant Experience: Capability of the Bidder to execute DGPS Survey		The Bidder should have executed or currently executing DGPS survey projects for Asset mapping / Utility mapping for Government/ PSU client of below mentioned specifications in last Five financial years in India	Completed Projects: Work Order & Work Completion certificate signed by a competent authority clearly stating the scope of the project, completion of the project and contact details of reference person.
			b. One Project with 30,000 DGPS points = (max 12 marks) c. Two projects with 15,000 DGPS points = (2.5 mark each & max 5 marks) d. Three projects with 10,000 DGPS points = (1 mark each & max 3 marks)	Ongoing Projects: Work Order signed by a competent authority clearly stating the scope of the project and contact details of reference person. Certificate signed by a competent authority clearly stating that the project has reached overall Go-Live stage of the project (not specific module) and 75% of the payment of the total project amount has been released to the vendor.

Sr. No.	Technical Evaluation Parameter	Max. Marks	Point System / Criteria	Supporting
B2	Bidder Competence and Relevant Experience: Capability of the Bidder to execute GIS application for Utilities*		preparation and finalization of GIS data for integration with an existing Enterprise GIS application* with any Government/ Semi Government/ PSU and on a of below mentioned value in last Five financial years in India: • At least one project with a value not less than ₹2 crore = (Total 10 marks) • At least two projects with a value not less than ₹1 crore = 5 marks for each project (Total 10 marks)	Completed Projects: Work Order & Work Completion certificate signed by a competent authority clearly stating the scope of the project, completion of the project and contact details of reference person. Ongoing Projects: Work Order signed by a competent authority clearly stating the scope of the project and contact details of reference person. Certificate signed by a competent authority clearly stating that the project has reached overall Go-Live stage of the project (not specific module) and 75% of the payment of the total project amount has been released to the vendor.
B3 C				Self-attested Copy of valid certificate of ISO certifications Technical Proposal
	Technical Proposal & Survey Equipment		survey equipment complying to Specifications mentioned in Annexure: DGPS Survey equipment: 7 DGPS = 4 marks 1 mark for each extra DGPS (Total 7 marks) Total Station survey equipment: 3 Total station = 2 marks 1 mark for each extra Total station (Total 3 marks)	recinical i toposal

Sr.	Technical Evaluation	Max. Marks	Point System / Criteria	Supporting
No.	Parameter			
	Parameter		Overall approach of the bidder(s) for survey of Manholes, Sewerage pipelines & other assets. Processing GIS dataset, loading the GIS datasets in Geodatabase & ensuring that all GIS & MIS applications which are consuming the new GIS datasets are working fine: 2. Project Management methodology covering timelines, milestones, envisaged risks, mitigation plan, survey plan using DGPS equipment-(5 marks) 3. Apps & digital methods to be used for capturing all attributes mentioned in scope of work & syncing it to GIS database - (5 marks) 4. Approach for loading new GIS datasets in GIS database and making necessary changes if required in the code to ensure that all associated	
			GIS & MIS Sewerage Operations applications are running successfully - (5 marks)	
	Manpower proposed as per requirement	5	F 7	Certificate from HR for all types of resources with experience and complete resumes of the proposed resources.
			• 4 Civil Engineer – 1mark	
			• 4 GIS Analyst - 1mark	
			• 1 GIS database administrator – 1 mark	
			• 2 GIS developers – 1 mark	

Sr. No.	Technical Evaluation Parameter	Max. Marks	Point System / Criteria	Supporting
E	Technical Presentation and clarifications / answers given to the BEC during presentation by the Bidder		presentation on the technical proposal detailing the scope	Technical presentation & demo to be given to BEC as per the time slot provided by MCGM.
Tota	l Marks	100		

2.2 Financial Capacity

Sr. No.	Qualification Criteria	Documentary Evidence
1.	The Bidder must be a company in India registered under the Company's Act 1956/2013 or a Partnership Firm registered under Indian Partnership Act, 1932 or a Proprietorship firm.	Certified copy of Partnership Deed/Certified copy of Certificate of Incorporation/ Registration Certificate
2.	The Average Annual Turnover of the bidder in the last three financial years from Survey/ GIS projects/GIS services should be 25 Crore	Copy of the audited Balance Sheet and Profit & Loss Statement of the company and/or Certificate from the Chartered Accountant clearly stating the average annual turnover from Survey/ GIS projects/GIS services over the last three financial years.
3.	The Bidder should have positive net worth in last three financial years.	Certificate from the Chartered Accountant clearly stating the positive net worth.

2.3 Similar Experience:-

Data preparation and finalization of GIS data for integration with an existing Enterprise GIS application:- Projects involving Geospatial data creation from Total Station Survey, DGPS survey, GPR survey, LiDAR/Aerial/ Drone survey for Utilities like Water pipeline, Sewer water, Storm Water, Electric, Gas pipeline with development, implementation & maintenance of Enterprise GIS solution for State Government, Central Government & Public Sector Units in India.

The value of executed works shall be brought to current costing level by enhancing the actual value of work at compound rate of 10 % per annum; calculated from the date of completion to last date of receipt of applications for tenders.

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.

C) Bid Capacity: (Not Applicable)

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 or financial failures etc.

D) Equipment Capabilities as required for this work.

a) Regular and Routine works: (Not Applicable)

The successful bidder will 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. The successful bidder and, to that effect he will ensure commitment 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.

- b) 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 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.
- c) Special Works: The concerned Ch. Eng. shall enlist the equipment in the tender document justified for the project and ensure the capacity of the bidder for the same with the approval of concerned AMC.

E) Technical Personnel- (Not Applicable)

The details of required staffing pattern and penalisation in case of failure in providing experienced technical personnel are given as below.

(A) General Guidelines for Fixing Requirement of Technical Staff

Cost of work (Rs in Crore)	Requirement of Technical Major + Minor Compo	Minimum Experience (years)	Designation	
	Qualification	Number		
10 to 20	Project manager with degree in Corresponding discipline of engineering	1	10	Principal Technical Representative
	ii) Graduate Engineer	1	5	

	iii)Graduate Engineer	2	2	Technical
				Representative
	Or			
				Project/Site
				Engineer and
	Diploma Engineer	2	5	Project
				Planning/billing
				Engineer
5 to 10	i)Graduate Engineer	1	5	Principal Technical
				Representative
	ii)Graduate Engineer	2	2	Project/Site
	Or			Engineer
	Diploma Engineer	2	5	Engineer
1.5 to 5	i) Graduate Engineer	1	5	Principal Technical
				Representative
	ii) Graduate Engineer or			
		1	2	Project/Site
				Engineer
	Diploma Engineer			_
		1	5	Billing Engineer
Up to 1.5	i) Graduate Engineer	1	2	Principal Technical
	or			Representative
	Diploma Engineer	1	5	Project/Site
				Engineer/ 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	Graduate Engineer	5	Rs.25000/-p.m.
2	Graduate Engineer	2	Rs.15000/-p.m.
3	Diploma Engineer	5	Rs.15000/-p.m.

F) TIME PERIOD OF THE PROJECT:

Entire project—/ The contract period of the work is (12) twelve months from the date of award of Letter of Acceptance (L.O.A.) that includes /excludes Monsoon.

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 L.O.A. has been issued 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.

Following are the main activities of the projects as per BOQ.

- 1.1 :- DGPS survey of SO nodes (Manhole, Ventshaft etc.)
- 1.2 :- Ground Truthing of 100 nodes per wards
- 2.1 :- GIS data processing, delivery of file geodatabase & publishing on server
- 2.2 :- Project manager on board

The timeline for the work completion as per stages, payment terms and penalty is mentioned at *Table 1* below. Contractor has to scrupulously complete the activities within the given time frame:- On failing to do so, the Contractor shall pay as compensation an amount which shall be governed as per penalty terms mentioned below in Table 1 on next page. Also same penalty terms are mentioned in **Clause – 84** of Standard General Conditions of Contract.

BOQ item wise payment details are as followed,

BOQ item	BOQ Description	Details of activities	1 st month of the project	2 nd to 10 th month (period of 9 months)	11 th to 12 th month (period of 2 months)
1.1	DGPS Survey of S.O. Nodes (manholes, Ventshafts etc.) and other features	Requirement gathering and planning:- Activities 2,3,4,5,6,7,8, Field Survey Activity 9 & GIS Data Delivery Activity 18 from Table 1. (activities 1 to 8 carry no payment.)	No payment	Payment to be equally distributed in 9 months. 80% of payment/ month to be released month wise for successful completion of <i>Activity 9:- Field Survey of SO nodes</i>	20% of remaining payment after successful completion of project
1.2	Ground Truthing of 100 nodes per wards	Ground Truthing of 100 nodes per wards:- Activity 10 from Table 1	No payment	Payment to be equally distributed in 9 months. 80% of payment/ month to be released month wise for successful completion of survey for Activity 10:-Ground truthing of 100 nodes per wards	20% payment to be done after successful completion of project
2.1	G.I.S. data processing, delivery of file Geodatabase & publishing on server	Activities 11,12,13,14,15,16,17 from Table 1.	No payment	No payment	1) 60% payment after successful completion of Activity 14:-submission of Geodatabase. 2) 20% payment after Activity 15:-Verification by BMC SO staff. 3) Remaining 20% after Activity 16:-Publishing on GIS server & Activity 17:- User Acceptance Testing by SO team
2.2	Project Manager on Board	Activity 1 from Table 1	Quarterly Pa	ayment upon submission of bill	and other compliances.

Sr	Category		Months												Service Level Agreement for Payment and penalty terms with respect to BOQ		
N o.	of Work		1	2	3	4	5	6	7	8	9	1	1	1 2	BOQ item no.	Payment Percentage	Penalty Terms
1		Project Manager on- boarding													2.2	100 % Quarterly Payment	In case the resource is not available for continuous 7 working days, the penalty of ₹ 10,000 per week will be imposed during and after 7 days.
2		Kick-off meeting & safety briefing													1.1	0 %	Rs. 5,000/- per day beyond the mentioned timeline
3	Requireme nt gathering	Requirement gathering & studying legacy data													1.1	0 %	Rs. 5,000/- per day beyond the mentioned timeline
4	& Planning	Project Charter & Milestones													1.1	0 %	Rs. 5,000/- per day beyond the mentioned timeline
5		Team mobilization													1.1	0 %	In case the resource is not available for continuous 7 working days, the penalty of ₹ 10,000 per week will be imposed during and after 7 days.
6		Preparing grids for AOI													1.1	0 %	Rs. 5,000/- per day beyond the mentioned timeline
7		Pre-assessment of Manholes before survey													1.1	0 %	
8	Field	Setting up temporary Continuously Operating Reference Station (CORS) network till Survey and ground truthing is completed in Mumbai													1.1	0%	Rs. 5,000/- per day beyond the mentioned timeline
9	Survey	Field survey of SO Nodes & other features with collection of attributes													1.1	80 %	1. The designated number SO nodes & other features should be captured within the stipulated timelines as mentioned in the Scope of Work> Rs.5000/- per day beyond the mentioned timeline. 2. The accuracy of SO nodes & other features should be less than 0.1 meter> Rs. 5000/- for every inaccurate point and a resurvey.

10		Ground truthing of 100 node per ward of total SO nodes.					1.2	80 %	1. Rs. 5,000/- per day beyond the mentioned timeline. 2. The accuracy of SO nodes & other features should be less than 0.1 meter> Rs. 5000/- for every inaccurate point and a resurvey.
11		GIS data processing					2.1	0 %	
12		Overlaying of GIS data on existing basemap					2.1	0%	Rs. 5,000/- per day beyond the mentioned timeline. The accuracy of SO nodes &
13		Topology, network & attribute corrections					1.1 + 1.2 +2.1	15% + 20 % +0 %	other features should be less than 0.1 meter> Rs. 5000/- for every inaccurate point and a
14		Submission of file geodatabase					2.1	60 %	resurvey.
15		Verification by BMC SO team					2.1	20 %	
16	GIS Data delivery	Publishing on GIS Server by coordinating with IT dept.					2.1	10 %	1. Rs. 5,000/- per day beyond the mentioned timeline. 2. The accuracy of SO nodes & other features should be less than 0.1 meter> Rs. 5000/-
17		UAT by BMC SO team on existing GIS application & Geodatabase					2.1	10 %	for every inaccurate point and a resurvey. 3. After migration of the new survey data on existing applications, the new applications should work smoothly. Any disruptions in the application, data & functionalities should be resolved within one week> Rs. 5,000/- per day beyond the mentioned timeline.
18		Project Report covering Field survey & GIS data delivery					1.1	5 %	Rs. 5,000/- per day beyond the mentioned timeline

(Table 1:- Time frame for payment and penalties)

Full work shall be completed in 1 year excluding monsoon.

The Contractor should complete the work as per phase given below (Not Applicable):

¹ / ₄ of the work in	½ of the time
½ of the work in	² / ₃ of the time
³ / ₄ of the work in	³ / ₄ of the time
Full of the work in	Full of the time

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

G) 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

- **H)** 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 will be taken against the contractor for recovery of the amounts.
- I) The amount of Contract 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.

J) 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 owning 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.

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 therefore 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 contractors 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 purchase or procured any materials or entered in to 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.

K) 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 attempt so to do, or become insolvent or commence any proceeding to get himself adjudicated and insolvent or make any composition with his creditors, or attempt 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 ensure 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.

L) Joint Venture

Joint venture is not allowed for this tender.

M) Litigation History:

The bidder shall disclose litigation history in **Packet 'B'** under the head "Details of Litigation History"

Litigation History covers 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. organisation initiated against the company, firm, 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 a party in the litigation against the company, firm, partners or authorized signatory for carrying out any work for BMC 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 case should consider the details submitted by bidder and take decision based on the gravity of the litigation and the adverse effect of the 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 timeframe.

If there is no Litigation History, the bidder shall specifically mention in PROFORMA- VII that there is no litigation History against him as per Clause of Litigation History.

Submission of Tenders

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 of Rs. 10 Lakh as governed by Registration Rules in force for respective Class of Contractor for Civil and M&E works.
- c) A document in support of Registration under GST. Goods and Service Tax Registration Certificate in Maharashtra (or equivalent requirement under GST). Those not registered in Maharashtra shall submit an undertaking to the effect that if they are successful tenderer, they shall submit Goods & Service Tax 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 cooperative 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.

The bidders shall categorically provide their Email-ID in packet 'A'.

NOTE:

• 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.

PACKET - B

The Packet 'B' shall contain scanned certified copies of the following documents -

- a) The list of similar type of works as stated in para 'A' of Post qualification successfully completed during the last five 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 five years at least one contract of similar works as stated in para 'A' of Post qualification.
- b) 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)
- c) 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 15% 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).
- **d)** 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.
- i) Regular and Routine works: (Not applicable) The successful bidder shall 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. The successful bidder and, to that effect he will ensure commitment 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.

- ii) 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.
- iii) Special Works (Not Applicable): The concerned Ch. Eng. shall enlist the equipments in the tender document justified for the project and ensure the capacity of the bidder for the same with the approval of concerned AMC.
- iv) 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 (Not Applicable).
- v) Statement showing assessed available Bid Capacity (Not Applicable).
- vi) The undertaking of Rs.500/- stamp paper as per the proforma annexed in 'Annexure B, C, & D.

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

- e) The tenderers shall upload work plan as per the following outline (Not applicable)
 - 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.

Note:

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. 200 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.200/- 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.

PACKET - C

a) Online tender filled in either percentage plus or minus (above or below), or at par. (There is no separate provision to quote % in physical form, this is a part in Header Data of online Tendering). For Packet 'C' tenderer(s) will fill data in 'Item Data Tab' in Service Line Item via Details and quotes his percentage variation figures. (If entered '0' it will be treated as 'at par'. By default the value is zero only).

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.

As it is item rate tender, bidder shall quote price for each Item online in item data tab in respective bid.

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 favour 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 centres 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 signed the Agreement and furnished the required Security Deposits.
- Except successful bidder all other unsuccessful bidders' 100% EMD paid online will be refunded automatically.
- 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. Maximum 5 shortfalls of curable defects shall be allowed and in case, curable defects are not compiled by bidder within given time period, the bidder shall be treated as 'Non-Responsive' & such cases 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 Registration Cell with due approval of the concerned AMC.
- 2. If the bidder is found non-responsive after scrutiny of packet 'A 'I' B', in such circumstances, the bidder will be made non-responsive and financial packet 'C' of non-responsive bidder will not be opened. However, there will not be any forfeiture of EMD.

Note: Curable Defect shall mean shortfalls in submission such as:

- a) Non-submission of following documents,
 - i. Valid Registration Certificate
 - ii. Valid Bank Solvency
 - iii. Sales Tax Registration Certificate (VAT) /Goods and Service Tax 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.
 - vii. Details of Litigation History (Proforma VII)
- i) 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, etc.

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 (Not Applicable)

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 on at least the defect could have been discovered with reasonable diligence, whichever is earlier.
- The Defect Liability Period (DLP) for the work is 1 Year.
- 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 carryout 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 PERFOMANCE GUARANTEE

A. Security Deposit

The security deposit shall mean and comprise of

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

I) Contract Deposit (Applicable)

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 within thirty days from the date of issue of letter of acceptance.

II) Retention Money (Not applicable)

The contractor shall pay the retention money an amount equal to **five (5)** percent of the Contract Sum which will be recovered from the contractors every bill i.e. interim / running / final bill. The clause of retention money will not be applicable M. & E. Work.

B. Additional Security Deposit (Not applicable)

The additional security deposit will be applicable when a rebate of more than of 12 % at the rate of with no maximum limit. The ASD is calculated as follows:

Additional security deposit = (X/100) x office estimated cost,

Where, X=percentage rebate quoted above 12%

The ASD shall be paid online in the ASD tab for bidders in e-tendering system before submission of the bid.

C. Performance Guarantee (Not applicable)

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:

Offer	PG applicable %
For premium, at par and	PG= 0.92% x contract sum applicable for rebate of 12%
rebate 0 to 12%	
For rebate of 12.01% and	$P.G. = \{0.92\% \text{ x contract sum}\}$
more	applicable for rebate of 12%} +(X) x contract sum
	where, X= percentage rebate quoted more than 12%

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 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 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 V as mentioned above and shall be paid within 15 days after receipt of Letter of Acceptance.

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.

D. Refund of Security Deposit (Applicable)

I. Refund of Contract Deposit

The Contract Deposit shall be released within 30 days after completion of work. (in case of 5 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 (Not applicable)

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 3rd year of DLP (in case of 5 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 Additional Security Deposit (Not applicable)

The additional security deposit 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.

IV. Refund of Performance Guarantee (Not applicable)

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 5 years DLP

Deposits refunded after Completion	After 3 yrs of DLP	After Completion of DLP
ASD + 50% of RM	CD+50% of RM	PG

b) Time of Refund for works having 1 or 2 or 3 years DLP

Deposits refunded after completion	After Completion of DLP
ASD + 50% of RM	CD+50% of RM+PG

^{*}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 of 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.

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

Successful tender shall pay the Legal Charges + Stationary charges as per revised Circular no. 26206 dtd. 31.08.2023 from Legal Department plus18% G.S.T. applicable.

Sr.No.	Contract Cost	Legal + Stationary Charges
1	Upto Rs. 50,000/-	Nil
2	Rs. 50,001/- To Rs. 1,00,00,000/-	0.10% of Contract Value Plus 18% GST (Min
		1,000/- Max 10,000/-) + 18% GST
3	Rs. 1,00,00,001/- To Rs. 10,00,00,000/-	0.05% of Contract Value Plus 18% GST (Above
		1,00,00,000/-)
4	Rs. 10,00,00,001/- and above	Rs.55,000/- for upto Rs.10,00,00,000/- plus
		0.01% above Rs.10,00,00,000/- plus applicable
		GST at 18%.

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. Latest circular in this regard will be applicable at the time of execution.

F. Stamp Duty: (As per applicable circular)

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

i. 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:

(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 0.1% for every Rs.1,00,000/- or part thereof, above rupees ten lakh subject to the maximum of rupees twenty five lakh stamp duty.				
(c)	Bank guarantee: As per article 54 read with	1 ,				
	0.5% will be applicable to the all bank guarantee submitted also which are required to be renewed after expiry of time period.					

- ii. The successful bidder shall enter into a contract agreement with M.C.G.M. 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.
- iii. 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.
- iv. All legal charges and incidental expenses in this respect shall be borne and paid by the successful tenderer.

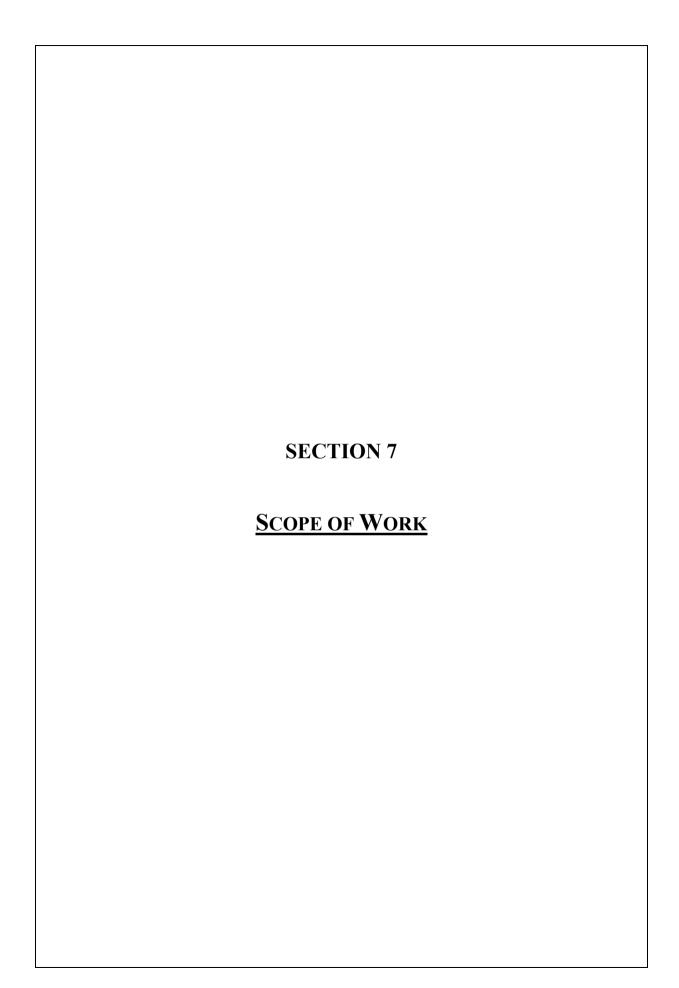
IMPORTANT DIRECTIONS

- 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 portal.mcgm.gov.in\tenders for "The Manual of Bid-Submission for Percentage Rate/Item Rate Tender Document." The detail guidelines for creation and submission of bid are available in the referred document.
 - Any queries or request for additional information concerning this TENDER shall be submitted by e-mail to e-mail to eetnsumc.so@mcgm.gov.in. The subject shall clearly bear the following identification / title: "Work of Re-Validation Survey of sewer network of entire Mumbai and data updation in GIS of S.O. department."
 - 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 done by IT department in BMC's SRM 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.

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

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

- 4. Bidders to note that the Tender shall be evaluated on Total Bid Amount and it is not splitable on the basis of line item amount.
- 5. Clause 6 of General Conditions of Contract is not applicable.
- 6. Clause 20, 27.4, 29 of General Conditions of Contract are not applicable
- 7. Clause 68 (5), 68 (6), 68 (7) & 68 (8) of General Conditions of Contract is not applicable.
- 8. Clause 79, 80 & 83 of General Conditions of Contract is not applicable.
- 9. The payment (in Indian Rupees only) shall be as per Terms & Conditions of Section 10 (Technical Specifications.).
- 10. Insurance to be taken from the "Directorate of Insurance, Maharashtra State" for total number of persons deployed during the entire contract period. If insurance is not taken, then 1% of total bill amount will be deducted from the final bill.



SCOPE OF WORK

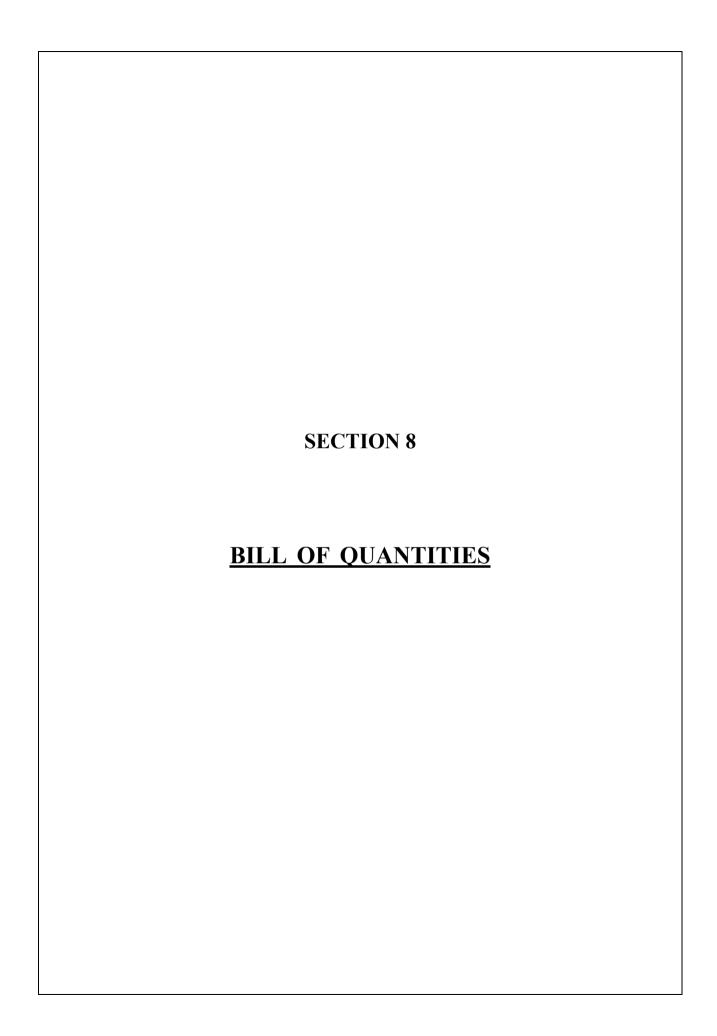
Brihanmumbai Municipal Corporation's Sewerage Operation department has a large sewer network consisting of various appurtenances including manholes, sewer lines, vent shafts, vent lines and other allied assets. This network is digitally mapped and Geo referenced (with GPS coordinates) in ArcGIS software at present. The department has 2 nos. of Reference Base stations working on GNSS (Global Navigation Satellite System). There are more than 75000 manholes and about 4000 Vent shafts on approximate total length of 2039 kms.

The proposed work involves validating of this entire network with respect to Geographical coordinates and physical attributes simultaneously. The successful bidder has to map this network with 10 C.M. accuracy in all directions.

The bidder should note that following are the vital components of work,

- 1) Preparation of key plan including data gathering of the existing system
- 2) Deployment of resources for mapping and field surveying of the network
- 3) Field Survey work with GNSS instruments after establishment of temporary DGPS base stations
- 4) Quality Assurance/ Quality control of the survey data as per BMC specifications and necessary standards.
- 5) Creation of Database of the New Survey data in ArcGIS Software
- 6) Integration of the New ArcGIS Data Base with BMC's old Data base as per the BMC format

The detailed specifications of the work are provided at Section 10: Technical Specifications



BRIHANMUMBAI MUNICIPAL CORPORATION

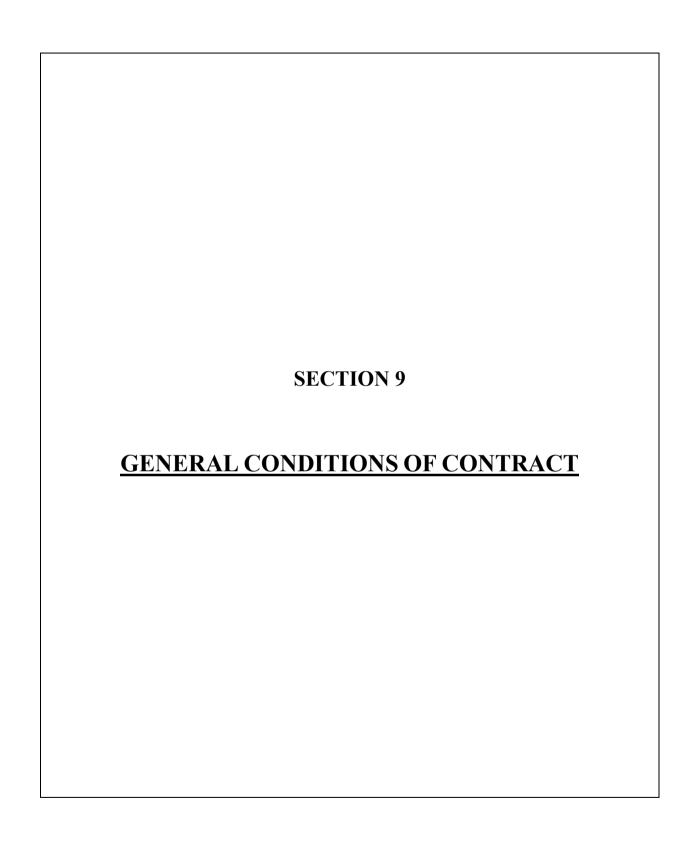
Subject: - Work of "Re-Validation Survey" of sewer network of entire Mumbai and data updation in GIS of S.O. department

SCHEDULE OF QUANTITIES AND RATES

Sr. No.	Description of Item/	Qty	Rate in Rs.	Unit	Amount in Rs
A (1.1)	DGPS Survey of S.O. nodes (Manholes, Vent shafts etc.) and other features	79000		No.	
B (1.2)	Ground Truthing of 100 nodes per wards	2400		No.	
C (2.1)	G.I.S. data processing, delivery of file Geodatabase & Publishing on server	Lump			
D (2.2)	Project manager on board	12		Months	
Е	Grand Total (A+B+C+D)				

Note: 1) The BOQ items of the tender are NOT Splitable

- 2) Bidders are requested not to quote on this page. Commercial data to be provided in C packet of online E tender.
- 3) Bidder shall quote rates exclusive of G.S.T.
- 4) Technical specifications, activities and payment timelines should be considered thoroughly before quoting.



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 lump sum 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 (BMC)

The "Employer" shall mean the Brihanmumbai Municipal Corporation / Municipal Commissioner for Brihan 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.

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 do 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 competed 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

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 (Not applicable)

- **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 or 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 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. 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 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' contamination means such 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 interrelationship 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 (Not Applicable)

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's decision in this case shall be final.

B. Time Control

23. Programme (Not Applicable)

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/ equipment 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 may be 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.
- 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 84 of GCC mentioned as *Service Level Agreement* with respect to **Annexure A:-Time Frame and Penalties.**

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 totalling 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

27.

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 (Not Applicable)

- 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 contactor shall have to produce a copy of challan receipts/SCADA reports/VTS 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 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 (Not applicable)

- **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 equipment 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 preformed 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 contactor 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.

29.3. Setting of Site Laboratories: (Not applicable)

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 equipment 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 Calibre
- 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. (Not applicable)

- 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. 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 (Not applicable)

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 Programmes 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 (Not applicable)

- **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 (Not applicable)

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 Incharge 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 Incharge. 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 as per phase wise completion of tasks as mentioned at, clause F:- Time period of the project under Section 6:- Instruction to applicants 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 unskilful 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

The tenderer shall quote inclusive of all taxes other than GST (Excluding GST), Levies, Duties, 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 Credit or Exemption shall be passed on 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	Up to Rs.5 Cr.	Rs.10 Lakh or final bill whichever is more
2	Up to Rs.25 Cr.	Rs.1 Crore or final bill amount whichever is more
3	Up to Rs. 50 Cr.	Rs.2 Crores or final bill amount whichever is more
4	Up to Rs.100 Cr.	Rs.4 Crore or final bill amount whichever is more
5	More than Rs.100 Cr.	Rs.7 Crore or final bill amount whichever is more

The contractor has 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 up to	Equal to 5% of bill amount			
certain date, up to next 15 days i.e. up to 30 days				
Next 15 days up to 45 days from the date of	Equal to 10% of bill amount			
completion/running bill up to specified date				
If not submitted within 45 days from the date of completion/	Bill will not be admitted			
R.A. bill	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.

A) 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 Ouantities:
- 7. The Specification:
- 8. Detailed Engineering Drawings (If applicable)
- 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 Endeavour 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 Endeavour 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 initially before commencing actual work and which shall be reimbursed immediately 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 up to Rs.50 Lakh) (Not Applicable)

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 lakh) (Not Applicable)

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 connections 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 equipments 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: (Not Applicable)

The tenderer shall obtain permission for provision of site office, cement godown, store, etc. on payment of necessary cost implication. The cement godown, 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 fulfil 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: (Not Applicable) 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 prerequisite 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 stature, 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 costing 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 Engin-change 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 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 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 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.

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 & 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 fails 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 recognised arbitral institution i.e. Mumbai Centre for International Arbitration (approved by Government of Maharashtra under G.R. no. ARB/Case No 1,/2017/D-19 dtd. 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. ARB/Case No 1,/2017/ D-19 dtd. 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 (Not Applicable)

The Contractor shall be reimbursed or shall refund to the Corporation as he 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 up to 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:

$$VL = (0.88 R) \times 30 \times (I - IO)$$

100 IO

b) Formula for Material component:

$$VM = (0.88 R \times 70 - C) \times (W - WO)$$
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 2004-05 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 up to 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 favourable 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: (Not Applicable)

	` ,
Time Period of Project	Maximum limit of Price Variation
Up to 12 months	No variation allowed
Above12 months to 24 months	5%
Above 24 months	10%

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:

Extension of Time period	Maximum Price Variation
If original period of 11 months including monsoon extends	No variation allowed
to 16. The operative period will be 11+5 months.	
If original period of 11 months excluding monsoon extends	Maximum 5% variation
to 16. The operative period will be 11+5 months.	allowed

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 clause8 (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(1) (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 up to 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 balance payment 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 (Not Applicable)

In case if Joint Venture is allowed for the Project, 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 Crores. 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%.
- 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 obligation shall be furnished in the agreement.
- i) Once the tender is submitted, the agreement shall not be modified/altered/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 become 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.
- 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 no 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 respect 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.

- n) Documents to be enclosed by the JV firm along with the tender:
 - i. 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 favour of one of the partners to sign the MOU and JV Agreement on behalf of the partners and create liability against the firm.
 - ii. 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.
 - iii. 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.
- o) 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.
- p) Credentials & Qualifying criteria: Technical and financial eligibility of the JV firm shall be adjudged based on satisfactory fulfilment 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.

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.

84. Compensation for delay:

Entire project—/ The contract period of the work is (12) twelve months from the date of award of Letter of Acceptance (L.O.A.) that includes /excludes Monsoon.

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 L.O.A. has been issued 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.

The timeline for the work completion as per stages is also mentioned at *Annexure A* on next page. Contractor has to scrupulously complete the activities within the given time frame.

Sr.	Catagory	Detailed tasks/	Months												
No.	Category of Work	activity	1	2	3	4	5	6	7	8	9	10	11	12	Penalty Terms
1		Project Manager on-boarding													In case the resource is not available for continuous 7 working days, the penalty of ₹ 10,000 per week will be imposed during and after 7 days.
2		Kick-off meeting & safety briefing													Rs. 5,000/- per day beyond the mentioned timeline
3	Requirem ent gathering &	Requirement gathering & studying legacy data													Rs. 5,000/- per day beyond the mentioned timeline
4	Planning	Project Charter & Milestones													Rs. 5,000/- per day beyond the mentioned timeline
5		Team mobilization													In case the resource is not available for continuous 7 working days, the penalty of ₹ 10,000 per week will be imposed during and after 7 days.
6		Preparing grids for AOI													Rs. 5,000/- per day beyond the mentioned timeline
7		Pre-assessment of Manholes before survey													
8	- Field Survey	Setting up temporary Continuously Operating Reference Station (CORS) network till Survey and ground truthing is completed in Mumbai													Rs. 5,000/- per day beyond the mentioned timeline
9		Field survey of SO Nodes & other features with collection of attributes													1. The designated number SO nodes & other features should be captured within the stipulated timelines as mentioned in the Scope of Work> Rs.5000/- per day beyond the mentioned timeline. 2. The accuracy of SO nodes & other features should be less than 0.1 meter> Rs. 5000/- for every inaccurate point and a resurvey.
10		Ground truthing of 100 node per ward of total SO nodes.													 Rs. 5,000/- per day beyond the mentioned timeline. The accuracy of SO nodes & other features should be less than 0.1 meter> Rs. 5000/- for every inaccurate point and a resurvey.

Sr. No.	Category of Work	Detailed tasks/ activity	Months										Penalty Terms			
			1	2	3	4	5	6	7	8	9	10	11	12	,	
11		GIS data processing														
12		Overlaying of GIS data on existing basemap													 Rs. 5,000/- per day beyond the mentioned timeline. The accuracy of SO nodes & other features should be less than 0.1 meter> Rs. 5000/- for every inaccurate point and a resurvey. 	
13		Topology, network & attribute corrections														
14		Submission of file geodatabase														
15		Verification by BMC SO team														
16	GIS Data delivery	Publishing on GIS Server by coordinating with IT dept.													 Rs. 5,000/- per day beyond the mentioned timeline. The accuracy of SO nodes & other features should be less than 0.1 meter> Rs. 5000/- for every 	
17		UAT by BMC SO team on existing GIS application & Geodatabase													inaccurate point and a resurvey. 3. After migration of the new survey data on existing applications, the new applications should work smoothly. Any disruptions in the application, data & functionalities should be resolved within one week> Rs. 5,000/- per day beyond the mentioned timeline.	
18		Project Report covering Field survey & GIS data delivery													Rs. 5,000/- per day beyond the mentioned timeline	

(*Annexure A*:- Time frame and penalties)

Full work shall be completed in 1 year excluding monsoon. On failing to do so, the Contractor shall pay as compensation an amount which shall be governed as per **Annexure A above** of General Conditions of Contract.

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.

The Contractor should complete the work as per phase given below (Not Applicable):

½ of the work in	½ of the time
½ of the work in	² ∕₃ of the time
3/4 of the work in	³ / ₄ of the time
Full of the work in	Full of the time

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

BOQ item	BOQ Description	Details of activities	1 st month of the project	2 nd to 10 th month (period of 9 months)	11 th to 12 th month (period of 2 months)
1.1	DGPS Survey of S.O. Nodes (manholes, Ventshafts etc.) and other features	Requirement gathering and planning:- Activities 2,3,4,5,6,7,8, Field Survey Activity 9 & GIS Data Delivery Activity 18 from Table 1. (activities 1 to 8 carry no payment.)	No payment	Payment to be equally distributed in 9 months. 80% of payment/ month to be released monthwise for sucessful completion of Activity 9:- Field Survey of SO nodes	20% of remaining payment after sucessful completion of project
1.2	Ground Truthing of 100 nodes per wards	Ground Truthing of 100 nodes per wards:- Activity 10 from Table 1	No payment	Payment to be equally distributed in 9 months. 80% of payment/ month to be released monthwise for sucessful completion of survey for Activity 10:- Ground truthing of 100 nodes per wards	20% payment to be done after sucessful completion of project
2.1	G.I.S. data processing, delivery of file Geodatabase & publishing on server	Activities 11,12,13,14,15,16,17 from Table 1.	No payment	No payment	1) 60% payment after sucessful completion of Activity 14:-submission of Geodatabase. 2) 20% payment after Activity 15:-Verification by BMC SO staff. 3) Remaining 20% after Activity 16:-Publishing on GIS server & Activity 17:-User Acceptance Testing by SO team
2.2	Project Manager on Board	Activity 1 from Table 1	Quarterly Pa	ayment upon submission of bill	and other compliances.

B.O.Q. wise payment details are as per above table.

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 unskilful 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 84 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.

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.

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 to 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 an 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 Incharge.

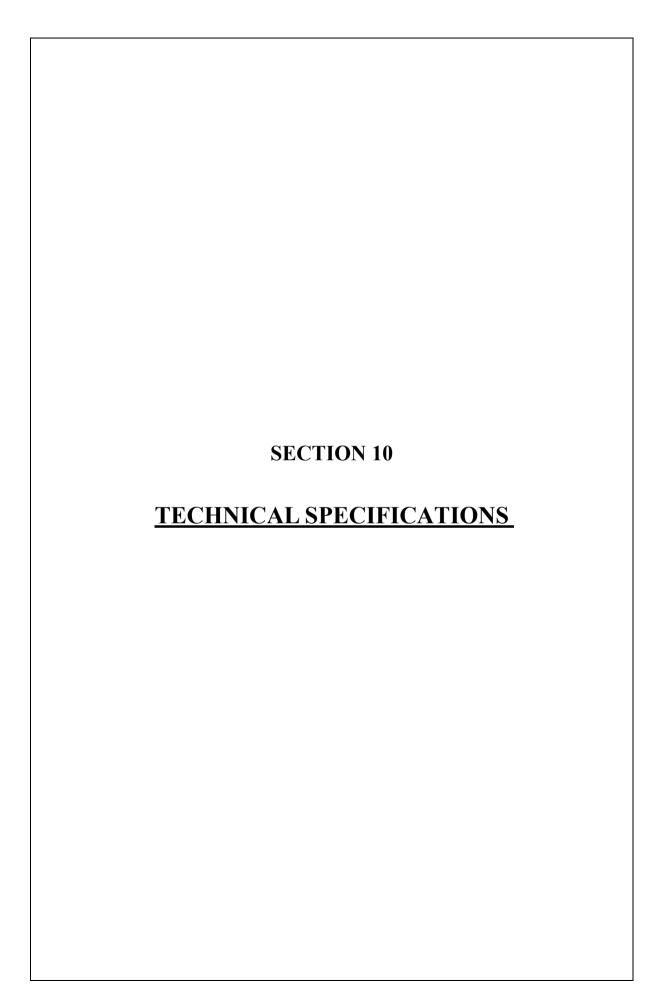
93. Safety and medical help:

- (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 equipment so provided by the contractor and the contractor shall take adequate steps to ensure the proper use of equipment by those concerned.
- (iv) When the work is carried on in proximity to any place where there is risk or drawing all necessary equipment 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 ant delay in according to sanction of estimates.

95. Anti-malaria and other health measures (Not Applicable):

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.



TECHNICAL SPECIFICATIONS

Preamble:- Brihanmumbai Municipal Corporation's Sewerage Operation department has a large sewer network consisting of various appurtenances including manholes, sewer lines, vent shafts, vent lines and other allied assets. This network is digitally mapped and Geo referenced (with GPS coordinates) in ArcGIS software at present. The department has 2 nos. of Reference Base stations working on GNSS (Global Navigation Satellite System). There are more than 75000 manholes and about 4000 Vent shafts on approximate total length of 2039 kms.

The proposed work involves validating of this entire network with respect to Geographical coordinates and physical attributes simultaneously. The successful bidder has to map this network with 10 C.M. accuracy in all directions.

The bidder should note that following are the vital components of work,

- 1) Preparation of key plan including data gathering of the existing system
- 2) Deployment of resources for mapping and field surveying of the network
- 3) Field Survey work with GNSS instruments after establishment of temporary DGPS base stations
- 4) Quality Assurance/ Quality control of the survey data as per BMC standard
- 5) Creation of Database of the New Survey data in ArcGIS Software
- 6) Integration of the New ArcGIS Data Base with BMC's old Data base as per the BMC format

1. Area of Interest (AOI)

Brihanmumbai Municipal Corporation is approximately 480 sq. kms. There are 24 wards in Mumbai. The total approximate nos. of manholes in Mumbai are 75,000. Useful vital statistics about BMC is available in BMC 2022 diary

https://portal.mcgm.gov.in/irj/portal/anonymous/qlmcgmDairyBooks and on BMC portal under about BMC header.

2. Project Life Cycle

2.1 Requirement gathering & Planning

- 1. Project Manager on-boarding
- 2. Kick-off meeting & safety briefing
- 3. Requirement gathering & studying legacy data
- 4. Project Charter & Milestones
- 5. Team mobilization
- 6. Preparing grids for AOI

2.2 Field Survey

- 7. Pre-assessment of Manholes before survey
- 8. Setting up temporary Continuously Operating Reference Station Network (CORS) with reference to existing two CORS of S.O. department (located at Dadar Sewerage Pumping Admin Building and Jogeshwari Trauma Hospital) till Survey and ground truthing is completed in Mumbai
- 9. Field survey of SO Nodes & other features with collection of attributes
- 10. Ground truthing of 100 nodes per ward

2.3 GIS Data delivery

- 11. GIS data processing
- 12. Overlaying of GIS data on existing basemap
- 13. Topology, network & attribute corrections
- 14. Submission of file geodatabase
- 15. Verification by BMC SO team
- 16. Publishing on GIS Server by coordinating with IT dept.
- 17. UAT by BMC SO team on existing GIS application & Geodatabase
- 18. Project Report covering Field survey & GIS data delivery

3. Project Plan

Following table provides project plan that is envisaged for Sewerage Operations – GIS Revalidation Survey. **The total duration of the project is 1 year (Excluding Monsoon)**. The vendor may suggest modifying the timelines of different sub-modules during the development & implementation period; however all modules should be covered as mentioned in the scope of work.

	Cotomore of		Months											
#	Category of Work	Detailed tasks/ activity 1		2	3	4	5	6	7	8	9	10	11	12
1		Project Manager on- boarding												
2		Kick-off meeting & safety briefing												
3	Requirement gathering &	Requirement gathering & studying legacy data												
4	Planning	Project Charter & Milestones												
5		Team mobilization												
6		Preparing grids for AOI												
7		Pre-assessment of Manholes before survey												
8	Field Survey	Setting up temporary Continuously Operating Reference Station (CORS) network till Survey and ground truthing is completed in Mumbai												
9		Field survey of SO Nodes & other features with collection of attributes												
10		Ground truthing of 100 nodes per ward												
11		GIS data processing												
12	GIS Data	Overlaying of GIS data on existing basemap												
13	delivery	Topology, network & attribute corrections												
14		Submission of file geodatabase												

15	Verification by BMC SO						
13	team						
16	Publishing on GIS Server by						
10	coordinating with IT dept.						
	UAT by BMC SO team on						
17	existing GIS application &						
	Geodatabase						
1.0	Project Report covering Field						
18	survey & GIS data delivery						

4. Requirement Gathering & Planning

1. Project Manager on-boarding

The requirement gathering is the phase where vendor is expected to get maximum information, data & current status of existing system from BMC S.O. departments. The vendor is expected to deploy Project Manager to meet different stake holders in BMC SO department. The vendor is expected to deploy Project Manager onsite for the entire duration of the project which is 1 year. The project manager is expected to attend all meetings related to the project. The project manager is expected to brief the backend development & implementation team of clients requirements, expectations & decisions made with respect to the project.

2. Kick-off meeting & safety briefing

The vendor should conduct the project kick-off meeting at the start of the project to understand the key stake holders, client's expectations and other necessary details about the project & BMC stakeholders. The vendor should conduct presentation for S.O. departments of the BMC. The presentation may be designed for different audience depending upon their hierarchy. Vendor should prepare one presentation targeted to Senior leadership & Head of the department (HODs) and other presentation should be targeted towards BMC workforce mainly Sub-Engineer, Assistant Engineers, etc. The kick-off presentation should also cover the safety briefing as per best industry standards which will be followed by the vendor during the project implementation.

3. Requirement gathering & studying legacy data

During the requirement gathering phase the vendor is also expected to study the legacy MIS & GIS dataset of S.O. dept. in detail along with the existing MIS & GIS application. The vendor should present their point of view to the BMC team on how to refresh the new data with the existing legacy data.

4. Project Charter & Milestones

The RFP contains project plan however, the vendor may suggest modifying the timelines of different sub-modules during the development & implementation period; however, all modules should be covered as mentioned in the scope of work. The project charter along with milestones should be approved by the BMC S.O. dept.

5. Team mobilization

The survey team and the project manager need to be deployed as per the project plan/charter agreed and approved by the S.O. dept.

6. Preparing grids for AOI

The vendor needs to prepare grids on digital maps for ease of planning and same needs to be reviewed & approved by the S.O. dept.

5. Strategy for Field Survey

Guidelines for Field Survey:-

1. Activities to be commenced prior to survey

- A. Creation of Paper Grid Maps: with
 - a. Node No.
 - b. Road Name for reference

B. Major & Minor Grid preparation:-

Distributing the ward boundaries in Major Grids and further sub dividing them in Minor Grid for survey reference purpose.

C. Taking a Copy of "SO_Master" (DB-2):-

- a. Local server to host DB-2 in multiuser editing environment.
- b. Use BMC's existing Arc GIS Pro / ArC G.I.S Sever etc.
- **D. Tablets for Survey:-** Loading existing sewer network maps on for reference into Surveyor's Tablets used for Survey Data acquisition.
- **E. Survey Data acquisition procedure:-** Surveyor shall use Mobile GIS app eg. Survey 123 or equivalent for operation of GIS Layer on site and filing attribute data with geo-tagged photos. (Geo-tagged photos will be delivered for each survey job completion).
- **F. Distribution of Maps:-** Maps shall be distributed amongst alt the survey teams who would be working simultaneously throughout Mumbai.
- **G. Listing of maintenance history & RWTS records:-** A list would be prepared of all those GIS assets which is having "Maintenance History" & "RWTS" records. So that GIS editor will not delete those marked assets.
- **H. Creation of new GIS layers:-** A new set of GIS Layers to be created having same Schema of existing one with Some additional attributes.

Sr. No.	Data Field	Details	Attribute
1	S.O. Node Number	New Node Number	RVSD_Node_Number
2	Surveyor's Name	Contractor's surveyor	RVSD_Creator_Name
3	Date of survey	MM_DD_YYYY format	RVSD_Survey_Date
4	BMC's data validator	BMC staff Name	RVSD_Validator_Name
5	Date of validation	MM_DD_ YYYY format	RVSD_Validator_Date
6	Coordinate sample checker's name	Contractor's QA/QC or BMC's engineer	Sample_Checked_By
7	Coordinate sample checking date	Date of QA/QC	Sample_Checked_Date
8	Data acquisition Methodology	Instrument of survey	Survey_Type_GPS/ Survey_Type_TS

Table 1

- **I.** The teams of Main sewer section of BMC shall be formed which will be working with surveyors throughout survey period of 8 to 10 months.
- **J.** Dadar GIS Centre will start a new NIS series as soon as Revalidation survey starts & DGISC shall continue its usual upation wok with new NIS series.
- **K.** Surveyor shall establish minimum 5 nos. of temporary Continuously Operating Reference Station Network (CORS) with reference to existing two CORS of S.O. department (located at Dadar Sewerage Pumping Admin Building and Jogeshwari Trauma Hospital) till Survey and ground truthing is completed in Mumbai.

2. Activities to be carried out during survey

- **A.** Every team will plan survey in the Grids under their jurisdiction.
- **B.** BMC staff shall guide Surveyor to identify "Manhole".
- **C.** Surveyor will open Manhole and B.M.C staff shall validate vital data which will be entered in digital form. (Internal Node number series will have created for survey purpose)
- D. Surveyor shall take Latitude / longitude and Geo-tagged photograph of Nodes
- **E.** The survey paper grid map to be used to update the asset which are surveyed by them every road junction.
- **F.** The paper map / Grid shall be signed by both Survey person & B.M.C. person.
- **G.** After the survey of asset like Manhole, a "Oil Paint" mark to be put, to indicate that the asset is already surveyed.
- **H.** After every end of the "JOB" of survey the data from tablet to be emailed to back office (Gdb / Shape file) & photos
- I. In case of GPS signals not available (canopy), Total station Survey shall be done & final latitude & longitude will be derived. The survey team should select the attribute accordingly as GPS or TS as mentioned in Table 1 above at point 1.

3. Back End Activities to be carried out during survey

- **A.** Contractor's Head digitizer team shall be stationed at Dadar GIS Centre of BMC. This head team will work in coordination with SUMC engineers for regular QA/QC and ground truthing work.
- **B.** The contractor has to arrange for compatible workstations, with the required specifications, for the digitisation work. He should consider this cost while quoting. The environment of these computers should be multiuser.
- **C.** For Head Digitizer staff stationed at SUMC the ArcGIS software licenses and local GDB access for editing will be provided by the BMC in coordination with I.T. cell.
- **D.** The contractor may have to deploy the additional team of digitizers at his own end considering the quantum of work to be finished on regular basis.

It would be the responsibility of the Head Digitizer Team to keep the latest network ready, in coordination with the additional staff, for the QA/QC of BMC engineer.

- **E.** Each digitizer shall download survey data from email and keep its records with proper indexing and timelines.
- **F.** Existing SO_Network shall be used for reference. (Read only data).
- **G.** Digitizer shall take reference of old sewer network, paper map, grids & digitize manhole, sewer line, vent line features.
- **H.** Digitizer will use attribute transfer (spatial adjustment tool) of ARC GIS or customized tool to transfer old attribute data to new features except surveyed vital attributes.
- **I.** D.G.I.S team will have to carry out sample QA/QC of 100 nodes from each ward totalling 2400 nodes during entire survey period.

4. Activities to be done after field survey in back end digitization/updating work

- **A.** Shut down of GIS production server & application will be taken for tentative period of 2 months.
- **B.** All the assets (manhole, vent line) which are received in DGIS centre for updation(New laying work, Repair work, Data from Red line tool) during survey period & having new NIS series will be added, updated in final survey data copy.
- **C.** Final geo database will be compiled with all survey data, data updation in DGIS during survey period. Final geo database will be checked by GIS team of surveyor and DGIS team jointly for geometric network error & data inconsistency.
- **D.** Above database will be given to I.T department to host this data in place of old SO_SEWER_NETWORK data and necessary steps to go live both GIS web application and RWTS data including UAT (User's Acceptance Testing) as per IT department's norms for existing GIS applications and Geodatabase.

6. GIS Data Delivery

The procedure for GIS data delivery concerns with following Data sets viz. Data(A), Data (B) and Data (C). The procedure for data acquisition, updation and final integration is explained below in depth.

Terminology:-

RWTS= Remedial Work Tracking System, which is an existing system of SO department integrated with WebGIS portal.

NIS:- Network Information Sheet

Data(A) = Current Data - where updating is going on through NIS / RWTS

Data(B) = Copy of Data(A) - this would be updated with [Data(C)]

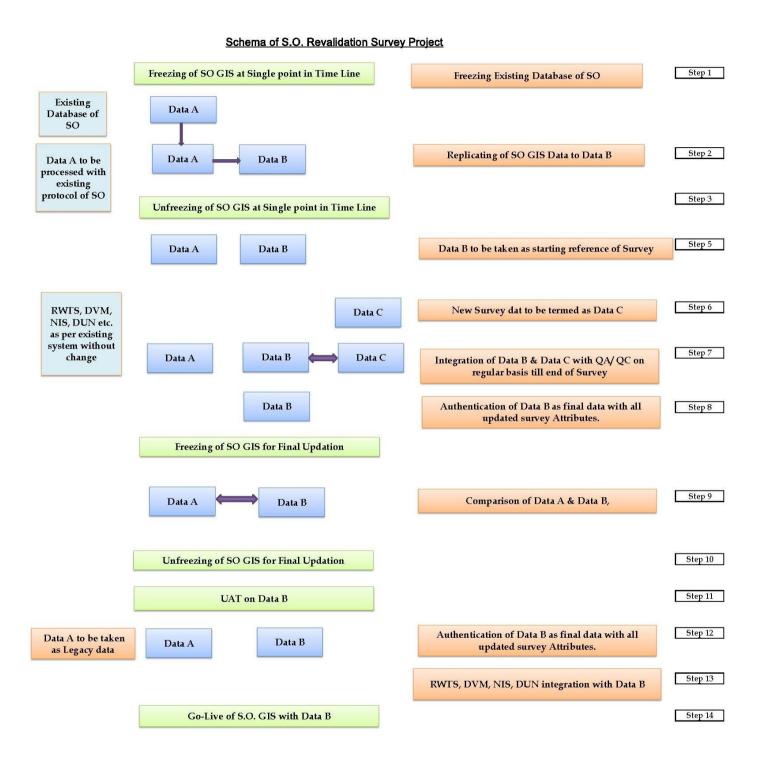
Data(C) = New Surveyed Data - Field surveyed data with limited vital attributes with photos

Identify and highlight all those features which have History / RWTS / DLP associated with them in Data (A). Stop Data(A) and take a copy [Data(B)] and keep it at local server at Dadar GIS Centre 3 Start & continue current business of data updating on Data(A) as usual Surveyor shall erect at least 5 temporary base stations with reference to existing CORS of S.O. department. Surveyor shall take print of grid wise maps with Node No. covering entire area of interest. 6 Digitizers shall be deputed at back office for data updation Surveyor shall develop digital forms to record attributes and photos from site. Surveyor shall collect limited vital attribute data and GPS coordinates in RTK (DGPS) Surveyed data shall be submitted, along with paper grid map, periodically to Backoffice [Data(C)] 10 Digitizers shall update Data(B) as per Data(C) 11 Highlighted features, as stated in sr. no 1 above, shall not be deleted. 100 Nodes per ward shall be checked (QA/QC) for asset coordinates by navigating to site using same DGPS instrument Survey ends within 1 year and Data(C) becomes fully validated data with only limited vital attributes and accurate geographic coordinates. Take shut down of GIS Web Application & stop GIS updating activity in ArGIS Desktop Run GIS script to match features from Data(A) with Data(B) and transfer all attributes except those vital data collected through survey 16 Now Data(B) is having all attributes along with updated attributes During survey period there would be updating done in some features through NIS / RWTS Identify only those features whose "depth" is modified or new features are added 19 Now update above modified data (Sr. No.18) in (Sr. No.16) 20 Rename Data(B) as "SO_MASTER" and Data(A) as "OLD_SO_MASTER" Attach all open RWTS work flow data, DLP data, Repair History Data with respective features in Data(B) or "SO_MASTER" Attach all open RWTS work flow data, DLP data, Repair History Data with respective features in Data(B) or "SO_MASTER" Make provision in Web Applicatio	Step	Action
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As per ground conditions including physical hurdles, climatic conditions, administrative hurdles, etc. (if any) the strategy & timelines may change and the vendor should get the updated strategy approved from BMC Engineer.

Please refer the flow chart of the tentative Schema for Data processing provided on the next page as chart 1.

Chart 1:- The flow Chart of the tentative Data Processing



The Successful bidder has to Make Sure that the final validated data is seamlessly merged with existing RWTS, DVM and other software and interfaces of S.O.

Annexure I – Survey form with sample attributes to be

captured during the survey

Field name	Alias	Data type Field descri ption	е	Description of values	Domain name	Domain Value description	Dat a len gth
LATITUD E	E	е		It is geographical coordinate (Y - axis) - Northing			8
LONGITU DE	LONGITU DE	Doubl e	ESRI	It is geographical coordinate (X - axis) - Easting			8
ALTITUD E	ALTITUD E	Doubl e		It is geographical coordinate (Z - axis)			8
	ACCURA CY	Doubl e	ESRI	Accuracy of GPS point captured while field survey			8
NODE_N O_NEW	NODE_N O_NEW	Text		For better understanding New format of Node Nos. are designed which non- Grid based. They contain information about Ward+Asset Type+Asset serial no. It is 10 digits no Fist two digits - Ward name Next two digits - Asset code no. Next eight digits - serial no. of asset in the ward For example an asset lay in "F/S ward" and it is a Asset type is "Manhole" and it is 10th manhole in F/S ward, then the New Node No. shall be FS010000010 Asset Type nos. are assigned as follows - 01 - Manhole 02 - Street Connection 03 - Vent Shaft			10
Road Name	LOCN	Text		Road name (Full road name, no short forms) / name of popular land mark, (All CAPITAL letters & no special character including ".")			100

Road Type	ROAD_TY PE	Text	ESRI	This information is linked to domain category. Field gives road material type	е	Not Available NA Others O Bitumen BT Concrete Road CC Paver Block Road PB Asphalt Road AP	15
War Name	WARD_N O	Text	ESRI	Administrative wards - "A" to "T"			10
Excp. Cond.	EXCP_C OND	Text	ESRI	As per M/s. AIC Watson's 1996 survey, manhole which could not be surveyed, their status was put under this field as UTR (Unable to Raised - Manhole cover could not be opened), UTS (Unable to Survey - Manhole in surcharge condition) and (UTL - Unable to Locate - Buried manholes)			3
SUBTYPE	SUBTYPE	Long Intege r	ESRI	1 - Existing: Functioning Manholes / Manholes which are on functioning sewer lines, and which are under O&M of Main Sewer section. 2- Uncommissioned: assets which are not in working condn.		Existing: (1) Uncommissioned:	4
ТҮРЕ	NODE_T YP	Text	ESRI	M Manhole P Pumping Station T Vent Shaft BC Balancing Chamber ST Sewer Trap GT Grease Trap CH Chamber J Junction Box NA Not Available U Unspecified O Other	Node_Type	M Manhole P Pumping Station T Vent Shaft BC Balancing Chamber ST Sewer Trap GT Grease Trap CH Chamber J Junction Box NA Not Available U Unspecified O Other	10
				It is the information about physical location of the asset i.e. whether it is in "PRIVATE" premises or at "PUBLIC" place		PU:Public PR:Private	10
SURVEY_ DT	SURV_DT	Date	ESRI	It is either date of "SURVEY" OR date of "COMPLITION" of work			8

MAN_SH	MAN_SH	Text	ESRI	There are following 4 types of Manhole's internal shape categories 1 - Conical		CN: Conical R: Rectangle S: Square O: Others NA: Not Available	10
				2 - Rectangular 3 - Square 4 - Others 5 - Not Available			
COV_SH	COV_SH	Text	ESRI	There are following 4 types of Manhole Cover shape categories 1 - Circular 2 - Rectangular 3 - Other		Other Circular Rectangle	10
	COV_DI M1	Doubl e	ESRI	cover X-dimension in mm (If cover shape is Circular, there will be no 'Y' dimension)			8
COV_DI M2	COV_DI M2	Doubl e	ESRI	cover Y-dimension in mm (If cover shape is Circular, there will be no 'Y' dimension)			8
COV_HG	COV_HG	Text	ESRI	Does Manhole Cover is provided with Hinge arrangement - Yes / No	SO_Boolean_1	YES NO	5
COV_LC	COV_LC	Text	ESRI	Does Manhole Cover is provided with Lock arrangement - Yes / No	SO_Boolean_1	YES NO	5
MH_DP	SHAFT_D P	Doubl e	ESRI	Manhole's absolute depth from center of manhole cover to foundation base of the manhole (in mtr)			8
	REMARK S	Text	ESRI	Any additional information of work / observations etc.			255
CATCH_P IT	CATCH_P IT	Text	ESRI	Whether the asset has been provided with Catch-Pit arrangement (Yes / No) "Catch Pit" is a PIT	SO_Boolean_1	Yes No	3
Imaga		Imaga		provided in the Manholes where Sludge / Slurry from sewage gets settled down and it is periodically removed while maintenance.			
Image SURVEY_ BY		Image Text		Image of the manhole GPS/ Rover			

Whatever minor work not mentioned in the tender but required for successful completion has to be completed by the contractor at no extra cost. The contractor should consider this point while quoting the cost.

Final Project Report Submission

After completion of work the Contractor shall submit *Final Project Report* covering all important parameters of *Field Survey and GIS data delivery*. This report should cover all important indices and statistical data of the sewer network with respect to various stages of the work as prescribed by BMC engineer.

Additional Instructions to the contractor: -

Contractor's responsibility of ascertaining extent of work

The major part of the Revalidation project is a survey work across entire Mumbai. The Contractor is deemed to have visited the various sites to get himself acquainted with the conditions, restrictions and constraints under which the work will be executed. The omission of any details shall not relieve the Contractor of his prima facie obligation and responsibility under the Contract to carry out and successfully complete the works. No monetary or other claims, made by the Contractor on the grounds of want of knowledge will be entertained by the Employer.

The Contractor is advised that it is his sole responsibility to ascertain for himself the extent of work that is required to be done on site and to generally obtain his own information on all matters affecting directly or indirectly the execution of the whole works involved in the contract to the complete satisfaction of the Engineer. No claim of extras in consequence of any alleged ignorance in any aspect will be entertained by the Engineer. It must be clearly and definitely understood that the contractor shall be held solely responsible for making all necessary arrangement and coordination with relevant authorities, competent agencies and specialist contractor's principals and technology providers, etc., and obtaining necessary permissions in time by paying all the applicable, to ensure satisfactory completion of the Contract.

Permissions from municipal ward offices

The contractor shall be responsible for taking permissions of local municipal ward offices before commencing and carrying out survey work in their respective territorial jurisdiction, before setting up temporary base stations and for the like activities. Necessary letters seeking permissions will be issued by the department. However, obtaining permission by regular follow up with the ward staff shall be contractor's sole responsibility. Obtaining necessary permissions from other departments of M.C.G.M. or any other organisation/authority shall also be contractor's responsibility.

Safety Procedure for Working near Live Sewers / Manholes

The Contractor shall ensure that all the necessary safety requirements for persons working near sewers, manholes, chambers, and all other sewerage installations are fully complied with all statutory safety requirements and provisions in the MCGM's general safety precautions, NHRC guidelines, Competent Courts, OSHA regulations and any other applicable rules, guidelines, amendments in this regards and the clauses in the specification.

Manholes:- The manholes constructed on the sewerage system in Mumbai are usually conical tapering manholes and trapezoidal and square scraper manholes. The conical manhole is provided with the clear opening of 560 mm at the top while the opening for trapezoidal manholes is $0.6 \text{ m} \times 0.9 \text{ m}$ and that for scraper type is $1.2 \text{ m} \times 0.9 \text{ m}$. The bottoms of the conical manholes are 1.2, 1.5 m, 1.8 m. diameter. Some of the manholes are rectangular vertical type having size approximately $350 \times 700 \text{ mm}$. For easy access to the sewer body, the manholes are generally provided at a distance of 30 m.

Safety Procedure for Working on Road and Traffic

As major portion of the sewerlines of S.O. department are along the roads the contractor's staff has to follow all necessary precautions including safety cones, safety sign to ensure the safety of themselves and of the citizen of Mumbai while maintaining all traffic safety guidelines.

The work sites must be secured in accordance with standard methods as specified in the General Conditions of Contract of BMC.

It will be entirely the responsibility of the contractor to provide and install secure cone, safety signs, safety lamps etc. on the work site wholly at his cost.

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.

All the necessary Personal Protective Equipment (PPE) should be provided to the field staff. For the staff working in night shift reflecting jackets, reflectors and other necessary night safety equipment should be provided.

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 Manhole survey works are undertaken during night or day.

The staff deployed for surveying the manholes/sewers should be properly trained before allowing working in the manhole.

First Aid Facilities: -

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.

The first-aid box shall be distinctly marked with a red cross on white back ground.

Adequate arrangements shall be made for immediate recoupment of the equipment when necessary. Nothing except the prescribed contents shall be kept in the First-aid box. 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. 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.

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 equipment so provided by the contractor and the contractor shall take adequate steps to ensure the proper use of equipment by those concerned.
- (iv) When the work is carried on in proximity to any place where there is risk or drawing all necessary equipment shall be provided and kept ready for use and all necessary steps shall be taken for the prompt rescue of any person in danger.

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 ant delay in according to sanction of estimates.

Co-operation with other Contractors and operational facility

The Contractor is advised that there may be other Contractors (i.e. from PWD, MMRDA, other department of MCGM or other authorities like Metro, MGL, Private Utility Providers, etc.) working within the site area. The Contractor shall in no way interfere with, impede or otherwise prevent these other Contractors, from carrying out their contractual obligations. The contractor shall coordinate with all such contractors / agencies and plan / liaison his activities for successful and timely completion of his contract.

The contractor shall note that it is the responsibility of the contractor to co-ordinate and arrange meetings with Utility Companies or the Government or Municipal departments. The Corporation would arrange to give authority letters to the contractor for arranging such meetings. The Engineer's representative shall be present in such meetings. The Corporation is not contractually bound to accept what transpired in any meetings or discussions in which the Engineer or the Corporation was not represented.

Claims for Damage to Persons or Property

Any claim received by the Employer in respect of matters in which the Contractor is required under the Contract to indemnify the Employer will be passed to the Contractor who shall likewise inform the Employer of any such claim which is submitted directly to him by a claimant.

The Contractor shall do everything necessary, including notifying the insurers of claims received, to ensure that all claims are settled properly and expeditiously and shall keep the Employer informed as to the progress made towards settlement, failing which the Employer shall be entitled to make direct payment to claimants of all outstanding amounts due to them in the Employer's opinion and without prejudice to any other method of recovery to deduct by way of set-off the amounts so paid from sums due or which become due from the Employer to the Contractor.

If the Contractor receives a claim which he considers to be in respect of matters for which he is to be indemnified by the Employer under the Contract he shall immediately pass such claim to the Employer. All information as aforesaid shall be given in writing and shall be copied to the Engineer's Representative.

Existing Services The Contractor shall take all due care and necessary precautionary measures to ensure that no damage occurs to any existing sewer, water or gas mains, electricity or telephone cables culverts and any other existing services. Any damage arising out of the Contractor's work in such respect will be met with entirely by the Contractor and no claim to the contrary will be entertained by the Corporation.

Working Space

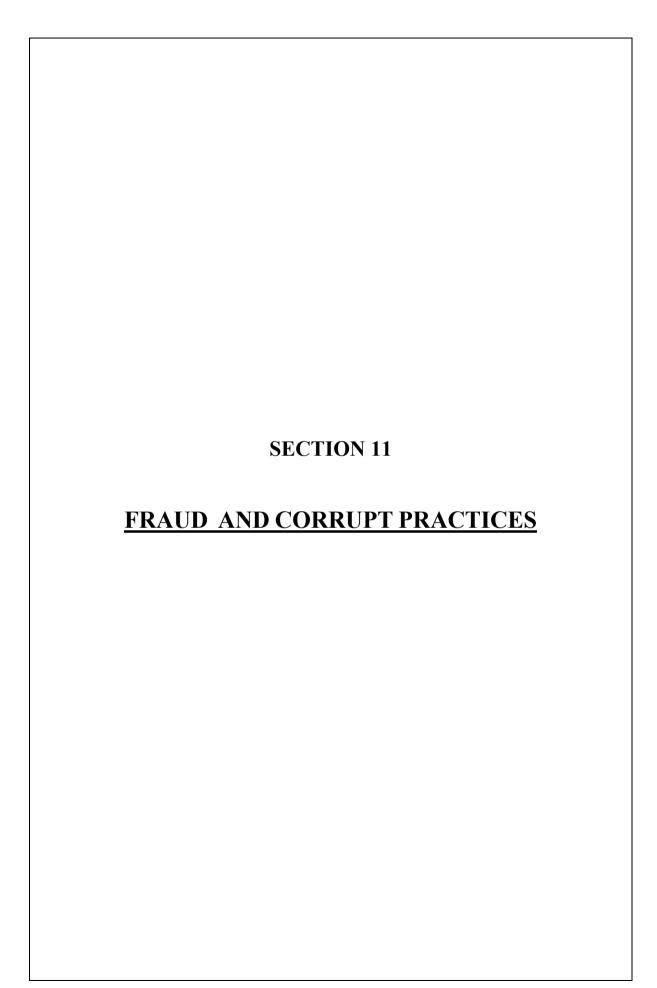
The Contractor shall note that within probable sewer projected area on surface or immediately adjoining the outside of the sewer reserves, other services may have already been laid and his attention is particularly drawn to his responsibility for the maintenance of other services. The Contractor will be allowed working space outside reserves, where approval for its use is obtainable by him from the owners/authorities, but the Contractor will be required to limit his working space where obstruction to traffic is likely or access to adjoining sites or services is affected.

Any additional working space required by the Contractor will be entirely the Contractor's responsibility and he will be required to obtain all necessary consents, pay all the costs arising out of compensation, etc. and reinstate the land affected to the satisfaction of the owner and the Engineer.

Assistance for the Engineer's Staff

The Contractor shall provide all necessary assistance to the MCGM/Engineer's Representative and his staff in carrying out their duties during ground truthing, routine inspecting and measuring of the works. The Contractor shall provide necessary engineering staff and labourers as may be needed from time to time by the Engineer's Representative. The Contractor shall provide for the Engineer's Representative and his staff protective clothing, safety helmets and rubber boots of suitable sizes, hand lamps and the like as may be reasonably required by them. These articles shall remain the property of the Contractor.

To and from vehicle support to MCGM engineer for ground truthing is a responsibility of the contractor. He should quote the price keeping this into consideration.



BRIHANMUMBAI MUNICIPAL CORPORATION

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

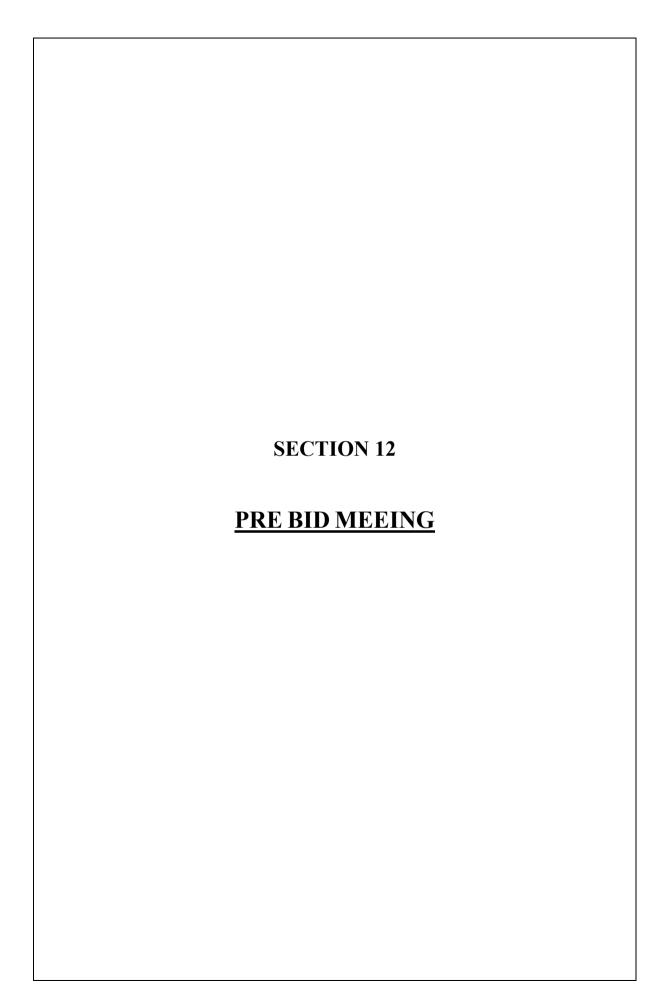
save and except as permitted under the relevant sub clause, engaging in any manner whatsoever, whether during the Bidding Process or after the issue of the LOA or after the execution of the Concession Agreement, as the case may be, any person in respect of any matter relating to the Project or the LOA 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;

- **B.** "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;
- C. "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;
- **D.** "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
- **E.** "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.
- **F.** 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.
- **G.** 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, non-competitive levels.
- x. A "party" refers to a participant in the procurement process or contract execution.

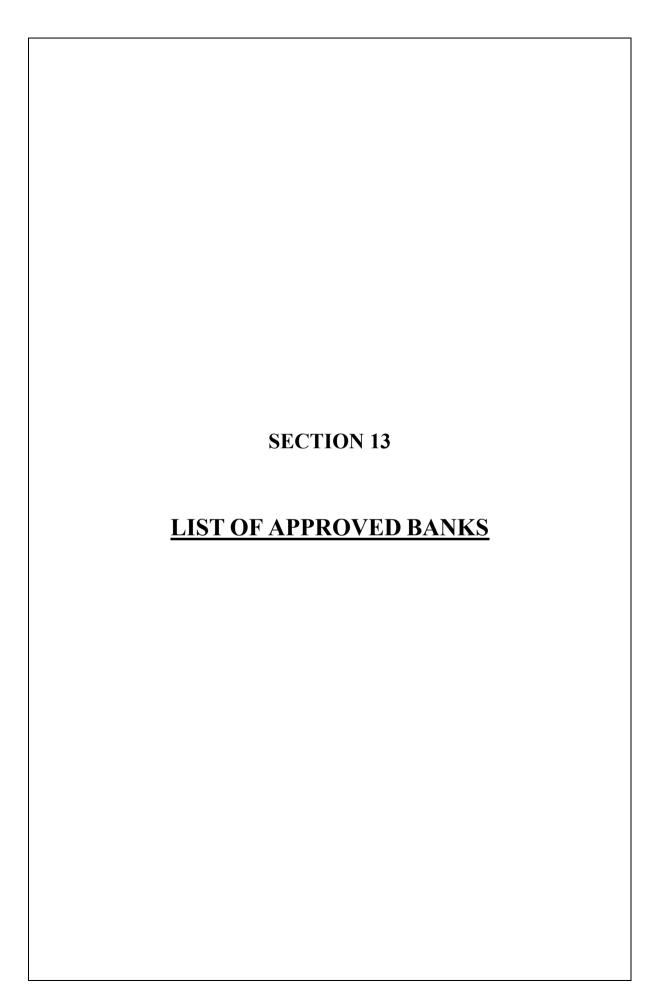


PREBID MEETING

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.

Any change in terms and conditions will be conveyed through corrigendum in Mahatender & MCGM portal. No advertisement will be given in newspaper.



LIST OF APPROVED BANKS

- The following Banks with their branches in Brihan 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.

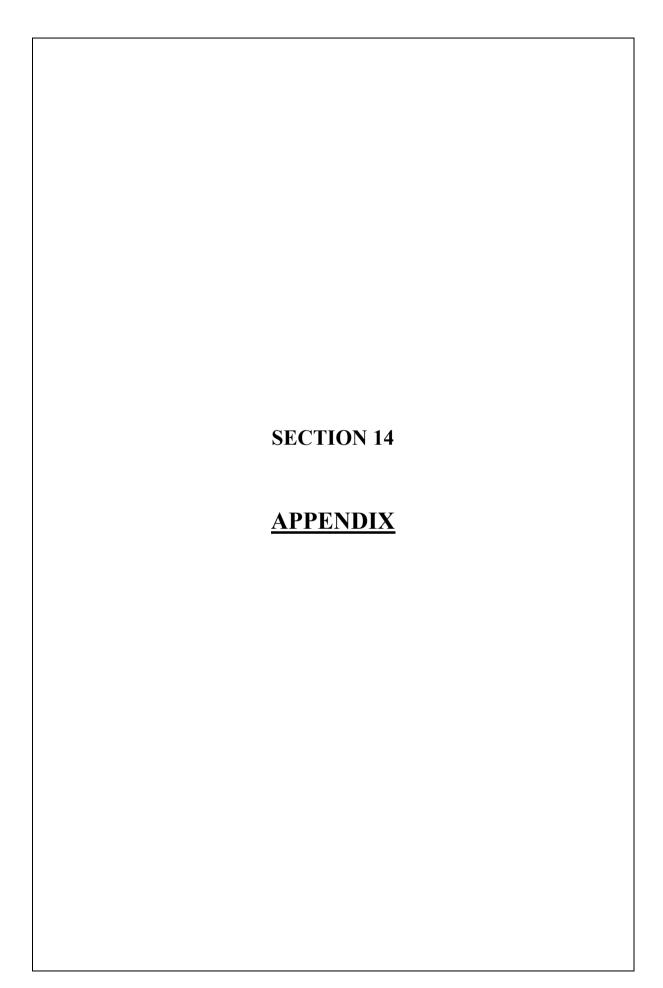
3. List of approved Banks:-

A	S.B.I and its subsidiary Banks
1	State Bank Of India.
2	State Bank Of Bikaner & Jaipur.
3	State Bank Of Hyderabad.
4	State Bank Of Mysore.
5	State Bank Of Patiala.
6	State Bank Of Saurashtra.
7	State Bank Of Travancore.
В	Nationalized Banks
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.
С	Scheduled Commercial Banks
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.

Karur Vysya Bank Ltd.
Laxmi Vilas Bank Ltd.
Nedugundi Bank Ltd.
Ratnakar Bank Ltd.
Sangli Bank Ltd.
South Indian Bank Ltd.
S.B.I Corporation &Into Bank Ltd.
Tamilnadu Mercantile Bank Ltd.
United Western Bank Ltd.
Vysya Bank Ltd.
Schedule Urban Co-op Banks
Schedule Orban Co-op Danks
Abhyudaya Co-op Bank Ltd.
•
Abhyudaya Co-op Bank Ltd.
Abhyudaya Co-op Bank Ltd. Bassein Catholic Co-op Bank Ltd.
Abhyudaya Co-op Bank Ltd. Bassein Catholic Co-op Bank Ltd. Bharat Co-op Bank Ltd.
Abhyudaya Co-op Bank Ltd. Bassein Catholic Co-op Bank Ltd. Bharat Co-op Bank Ltd. Bombay Mercantile Co-op Bank
Abhyudaya Co-op Bank Ltd. Bassein Catholic Co-op Bank Ltd. Bharat Co-op Bank Ltd. Bombay Mercantile Co-op Bank Ltd.
Abhyudaya Co-op Bank Ltd. Bassein Catholic Co-op Bank Ltd. Bharat Co-op Bank Ltd. Bombay Mercantile Co-op Bank Ltd. Cosmos Co-op Bank Ltd.
Abhyudaya Co-op Bank Ltd. Bassein Catholic Co-op Bank Ltd. Bharat Co-op Bank Ltd. Bombay Mercantile Co-op Bank Ltd. Cosmos Co-op Bank Ltd. Greater Mumbai Co-op Bank Ltd.
Abhyudaya Co-op Bank Ltd. Bassein Catholic Co-op Bank Ltd. Bharat Co-op Bank Ltd. Bombay Mercantile Co-op Bank Ltd. Cosmos Co-op Bank Ltd. Greater Mumbai Co-op Bank Ltd. Janata Sahakari Bank Ltd.
Abhyudaya Co-op Bank Ltd. Bassein Catholic Co-op Bank Ltd. Bharat Co-op Bank Ltd. Bombay Mercantile Co-op Bank Ltd. Cosmos Co-op Bank Ltd. Greater Mumbai Co-op Bank Ltd. Janata Sahakari Bank Ltd. Mumbai District Central Co-op
Abhyudaya Co-op Bank Ltd. Bassein Catholic Co-op Bank Ltd. Bharat Co-op Bank Ltd. Bombay Mercantile Co-op Bank Ltd. Cosmos Co-op Bank Ltd. Greater Mumbai Co-op Bank Ltd. Janata Sahakari Bank Ltd. Mumbai District Central Co-op Bank Ltd.

59	North Kanara 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	Shamrao Vithal Co-op Bank Ltd.
64	Mahanagar Co-op Bank Ltd.
65	Citizen Bank Ltd.
66	Yes Bank Ltd.
E	Foreign Banks
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	Bank Indosuez.
73	Banque Nationale de Paris.
74	Barclays bank.
75	City Bank N.A.
76	Hongkong & Shanghai banking
	Corporation.
77	Mitsui Taiyokbe Bank Ltd.
78	Standard Chartered Bank.



FORM OF TENDER

To,		
The M	[unici	pal Commissioner for Brihan Mumbai
Sir,		
	I/ W	We have read and examined the following documents relating to the work 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 as amended up to date.
	iv.	Relevant drawings.
	v.	Specifications.
	vi.	Special directions
	vii.	Annexure A to F.
	viii.	Bill of Quantities and Rates.
1A.	I/We	e(full_name
in cap	oital 1	etters, starting with surname), the Proprietor/ Managing Partner/ Managing
Direct	tor/ H	older of the Business, for the establishment / firm / registered company, named
herein	belo	w, do hereby offer to
Referr	ed to	in the specifications and schedule to the accompanying form of con-
		rates entered in the schedule of rates sent herewith and signed by me/ us" (strike
out the	e porti	ions which are not applicable).
1B.	I/We	e do here by state and declare that I/We, whose names are given herein below in
details	s with	the addresses, have not filled in this tender under any other name or under the
name	of an	y other establishment /firm or otherwise, nor are we in any way related or
conce	rned v	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 amounting to
Rs	/-(Rs
) I/We have deposited the amount through online
paym	ent 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 an	d, 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.	
allotment of work/contract to me/us, that any or incorrect, I/We shall compensate the Bril losses or inconvenience caused to the Corpor for such compensation on any ground whatsoclaim in such case any amount by way of d	t in the event it is revealed subsequently after the information given by me/us in this tender is false nanmumbai Municipal Corporation for any such ation in any manner and will not resist any claim ever. I/we agree and undertake that I/we shall not amages or compensation for cancellation of the to me/us or is withdrawn by the Corporation,"
Address	Yours faithfully,
	Digital Signature of the Tenderer or the Firm
•	
	1
	1
	2
	3
	3
	4
	5
Full Name and private residential address of a	all the partners constituting the Firm
-	-
1	A/c No.

3.	 Name	of	Bank
4.	 		
5.	 Name	of	Branch
	Vender		No.

AGREEMENT FORM

Tender No:	dated 20
CONTRACT FOR THE WORKS	ee Resolution No.
Two thousand	Between
inhabitants of Mumbai, carrying on bu	usiness at
in Mumbai under the style and name	of Messrs
contractor of the one part and Shri the DMC (E) (hereinafter called "the unless the inclusion is inconsistent with the successors for the time being holding the Brihanmumbai Municipal Corporation (heart, WHEREAS the contractor has tend maintenance of the works described above	(Hereinafter called "the commissioner" in which expression are included ne context, or meaning thereof, his successor or office of DMC (E) of the second part and the hereinafter called "the Corporation") of the third ered for the construction, completion and re and his tender has been accepted by the e Standing Committee/Education Committee of the
THIS A CREEN CENTER WITTER CETTLE	2 11

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
	Contractors
Full Name & Address	
Signed by the D.M.C.(Engg.)in the presence of	
EE(SO)Trg&SUMC Dy.Ch.E.(SO)P&C	
Ch.(SO)	D.M.C.(Engg.)
Sanction No.	
Sanction No.	
Head Clerk	
The Common seal of the Brihanmumbai	
Municipal Corporation was hereunto affixed on	
the20 in the presence of two	
members of the Standing Committee.	
1.	1.
1.	1.
2.	2.
2.	4.
And in the presence of the	Municipal Secretary

ANNEXURE -A

(Being Item rate Tender, this is not applicable)

N	ame of work :	
•••		
1.	The Engineer for this work:	Chief Engineer ()
		Dy.Ch.Eng.()
		Exe.Eng.()

2. Estimated cost of Tender: Not applicable being Item Rate Tender.

Sr. No.	Description of work	Total Amount Rs.
1.	Civil Work	
2.	Electrical Work	
3.	Total Amount	

- 3. Earnest Money:
- 4. Time Period:

Sr. No.		Total Amount Rs.
1.	Contract as a whole Period completion	
2.	Part or Groups of items	Not Applicable
	i)	i)
	ii)	ii)
	iii)	iii)

5. Percentage to be charged as supervision charges for the work got executed through other meanspercent.

The "Actual cost of the work" shall mean in the case of percentage rate contracts the actual cost of the work executed at the rates as mentioned in the Contract Schedule adjusted by the

Contractor's percentage rate and cost of extra and excess, but excluding the cost on account of Water Charges and Sewerage Charges if any, payable by the contractor and also excluding cost on account of price variation claims as provided in price variation clause as amended up to date.

- 6. In case of item rate contracts the actual cost calculated for the work executed at the rates mentioned in the contract schedule for different items including cost of excess and extra items of the work excluding the cost of water charges and sewerage charges if any, payable by the contractor and excluding cost on account of price variation claims as provided in extra excess conditions as amended up to date.
- 7. In case of lump sum contract the cost of the work actually carried out as per break up and programme of the work and the schedule of payment included in the contract including cost of any excess and/or extra items, of the work, excluding the cost on account of water charges and sewerage charges and also excluding cost on account of price variation claims as provided in extra excess conditions as amended up to date.

ANNEXURE - B

Irrevocable Undertaking (On Rs.500 Stamp paper)

	Tender No.:-
	Subject:-
	I Shri/Smtaged,years Indian Inhabitant. roprietor / Partner / Director of M/sresident atdo 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)	
	Whatever has been stated here I above is true & correct to my/our own knowledge & belief.
	Solemnly affirmed at DEPONANT
	This day of BEFORE ME
	Interpreted Explained and Identified by me.

Annexure- C

PRE-CONTRACT INTEGRITY PACT

(On Rs. 500/- Stamp Paper)

Tender No.:-

Subject:-

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:

- i. "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;
- ii. "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;
- iii. "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
- iv. "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- D

(On Rs. 500/- Stamp Paper)

DECLARATION CUM INDEMNITY BOND

	ubject:-
	I, of, do hereby
de	clared 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	B	ETWEEN THE
BANK incorpora	ted under the En	glish/Indian Com	panies Acts and
carrying on business in Mumbai (hereina	fter referred to as	the bank' which	expression shall
be deemed to include its succ	essors and	assigns) of the	e first part
			inhabitants
carrying on business at		in Mumbai	under the style
and name of Messer's	(hereinafter re	eferred to as 'the co	ontractor') of the
second part Shri.		THE	MUNICIPAL
COMMISSIONER FOR BRIHAN			d to as 'the
commissioner' which expression shall be	deemed, also to i	nclude his success	or or successors
for the time being in the said office of M	unicipal Commis	sioner) of the thir	d part and THE
BRIHANMUMBAI MUNICIPAL CO	RPORATION (h	nereinafter refer	red to as 'the
Corporation') of the fourth part WH	EREAS the con	itractors have su	bmitted to the
Commissioner tender for the execution of	the work of "		
		22 1	41
and to do / a utus at us and that the			
such tender /contract require that the contract the contract the contract that the contract		_	
as/contract deposit/ earnest mone		_	
Rs(Rupees)
AND WHEREAS if and when	any such t	tender is acce	pted by the
Commissioner, the contract to be entered	into in furtheran	nce thereof by the	contractors will
provide that such deposit shall remain wit	h and be appropri	ated by the Comm	issioner towards
the Security deposit to be taken under th	e contract and be	redeemable by th	e contractors, if
they shall duly and faithfully carry out the	ne terms and prov	visions of such co	ntract and shall
duly satisfy all claims properly chargea	ble against them	there under AND	WHEREAS the
contractors are constituents of the Bank a	nd in order to fac	ilitate the keeping	of the accounts
of the contractors, the Bank with the c	onsent and con	currence of the	contractors has
requested the Commissioner to accept	the undertaking o	of the Bank herein	after contained,
in place of the contractors depositing	with the Commi	ssioner, the said	sum as earnest
money and /or security as aforesaid AN	D WHEREAS a	accordingly the Co	mmissioner has
agreed to accept such undertaking NO	W THIS AGRR	EMENT WITHN	IESSES that in
consideration of the premises, the Bank	at the request of	the contractors (h	ereby testified)

writing, whenever required by him, from time to time, so to do, a sum not exceeding in the whole Rs	UNDERTAKES WIT	TH the commiss	sioner to pay to the	commissioner upon demand in
Notwithstanding anything what has been stated above, our liability under the above guarantee is restricted to Rsonly, and guarantee shall remain in force up to unless the demand or claim under this guarantee is made on us in writing on or beforeall 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 address the Bank and the said Messer's	writing, whenever req	uired by him, fr	rom time to time, so to	o do, a sum not exceeding in the
Notwithstanding anything what has been stated above, our liability under the above guarantee is restricted to Rsonly, and guarantee shall remain in force up tounless the demand or claim under this guarantee is made on us in writing on or beforeall 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 address (Name of the Bank) WITNESS (1) Name and address WITNESS (2) Name and address WITNESS (3) Name and address WITNESS (4) Name and address WITNESS (5) Name and address For Messer's For Messer's	whole Rs	(Rupees) u	nder the terms of the said tender
guarantee is restricted to Rsonly, and guarantee shall remain in force up tounless the demand or claim under this guarantee is made on us in writing on or beforeall 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)	and /or the contract .T	he B.G. Is valid	up to"	
guarantee is restricted to Rsonly, and guarantee shall remain in force up tounless the demand or claim under this guarantee is made on us in writing on or beforeall 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)	NI - 4:41 - 4 1:	1.114 1	1	11.1.1124
unless the demand or claim under this guarantee is made on us in writing on or beforeall 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 the duly constituted Attorney Manager the Bank and the said Messer's (Name of the Bank) WITNESS (1) (Name of the Bank) WITNESS (2) (Name and address		•		•
writing on or beforeall 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)	guarantee is restricted	to Rs	only, and guaran	tee shall remain in force up to
forfeited and we shall be released from all liabilities under the guarantee thereafter" IN WITNESS WHEREOF WITNESS (1)		unless the den	nand or claim under t	this guarantee is made on us in
WITNESS (1) Name and address WITNESS (2) Name and address the Bank and the said Messer's (Name of the Bank) WITNESS (1) Name and address WITNESS (2) Name and address For Messer's	writing on or before	ea	ll your right under	the above guarantee shall be
WITNESS (1) Name and address WITNESS (2) Name and address the Bank and the said Messer's (Name of the Bank) WITNESS (1) Name and address WITNESS (2) Name and address For Messer's	forfeited and we shall	be released from	n all liabilities under t	the guarantee thereafter"
WITNESS (1) Name and address WITNESS (2) Name and address the Bank and the said Messer's (Name of the Bank) WITNESS (1) Name and address WITNESS (2) Name and address For Messer's				
Name and address WITNESS (2) the duly constituted Attorney Manager the Bank and the said Messer's	IN WITNESS WHER	EOF		
Name and address WITNESS (2) the duly constituted Attorney Manager the Bank and the said Messer's				
WITNESS (2) the duly constituted Attorney Name and address Messer's	WITNESS (1)			
Name and address the Bank and the said Messer's	Name and address			
Name and address the Bank and the said Messer's				
Name and address the Bank and the said Messer's	WITNESS (2)			the duly constituted Attorney
the Bank and the said Messer's				•
WITNESS (1) Name and address WITNESS (2) Name and address For Messer's	Name and address			Manager
WITNESS (1) Name and address WITNESS (2) Name and address For Messer's	the Bank and the said	Messer's		
WITNESS (1)				
Name and address		•••••	(Name of the B	Bank)
WITNESS (2)	WITNESS (1)			
WITNESS (2)	Name and address			
Name and address	Name and address		•••••••	
For Messer's	WITNESS (2)			
For Messer's	Nama and addraga			
	Name and address	•••••	••••••	
address	For Messer's			
	address			
	addiess	•••••		

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.

Annexure-E Rate Analysis (Being Item Rate Tender, this is not applicable)

Item	Description:	
------	--------------	--

Sr. No.	Description of rate analysis	Unit	Quantity	Rate	Amount
	parameters				
1	Basic Material (Rate should				
	be inclusive of all taxes)				
2	Machinery Hire Charges				
	-				
3	Labour Type		(labour		
			components)		
4	Total of all components				
5	Overhead & Profit 15% on 4				
6	Total Rate (4+5)				
	D				
7	Per unit rate				

Sign & Seal of the Tenderer

Annexure-F

INFORMATION REGARDING STATUS OF BIDDER

(1) (a) Whether it is a proprietor concern	
(b) If so, name of the owner	
(2) If it is a partnership concern, please furnish name of each partner and	
copy of registration certificate	
(3) In case of company please furnish	
the documentary proof to show that the company is registered.	
(4) In case of Joint Venture, please furnish the name of each firm and Joint Venture forms.	

Signature of authorized Person of concern/company

Name of concern/company
And seal

Annexure-G

MANUFACTURERS AUTHORISATION CERTIFICATE

(In case of tenderer who are authorized representative of manufacturer)

(On Letter head of Manufacturer)

This is to certify that M/sare Authorized
Representative of sincetill date for
dealing in
We authorize them to quote for the tender
bearing no
promise to provide all the necessary technical support & after sales service during the contract
period and afterwards.
Place: Seal of the Manufacturer & Sign of
Authority signatory
Date:

<u>ANNEXURE</u> – H

INTERNAL GRIEVANCE REDRESSAL MECHANISM

(To be uploaded in Packet 'A')

M.C.G.M. has formed a Grievance Redressal Mechanism for redressal of bidder's grievances. Any Bidder or prospective Bidder aggrieved by any decision, action or omission of the procuring entity being contrary to the provisions of the tender or any rules or guidelines issued therein, in Packet 'A', 'B' & 'C' can make an application for review of decision of responsiveness in Packet 'A', 'B' & 'C' within a period of 7 days or any such other period, as may be specified in the Bid document.

While making such an application to procuring entity for review, aggrieved bidders or prospective bidders shall clearly specify the ground or grounds in respect of which he feels aggrieved.

Provided that after declaration of a bidder as a successful in Packet 'A' (General Requirements), an application for review may be filed only by a bidder who has participated in procurement proceedings and after declaration of successful bidder in Packet 'B' (Technical Bid), an application for review may be filed only by successful bidders of Packet 'A'. Provided further that, an application for review of the financial bid can be submitted, by the bidder whose technical bid is found to be acceptable / responsive.

Upon receipt of such application for review, M.C.G.M. may decide whether the bid process is required to be suspended pending disposal of such review. The M.C.G.M. after examining the application and the documents available to him, give such reliefs, as may be considered appropriate and communicate its decision to the Applicant and if required to other bidders or prospective bidders, as the case may be.

M.C.G.M. shall deal and dispose off such application as expeditiously as possible and in any case within 10 days from the date of receipt of such application or such other period as may be specified in pre-qualification document, bidder registration document or bid documents, as the case may be.

Where M.C.G.M. fails to dispose off the application within the specified period or if the bidder or prospective bidder feels aggrieved by the decision of the procuring entity, such bidder or prospective bidder may file an application for redressal before the 'Internal Procurement Redressal Committee' within 7 days of the expiry of the allowed time or of the date of receipt of the decision, as the case may be. Every such application for internal redressal before Redressal Committee shall be accompanied by fee of Rs.25,000/- and fee shall be paid in the form of D.D. in favour of M.C.G.M.

1st Appeal by the bidder against the decision of C.E./ HoD / Dean can be made to concerned D.M.C./Director who should decide appeal in 7 days.

If not satisfied, 2nd Appeal by the bidder can be made to concerned A.M.C. for decision.

Grievance Redressal Committee (GRC) is headed by concerned D.M.C./Director of particular department for the first appeal / grievances by the bidder against the decision for responsiveness / non-responsiveness in Packet 'A', Packet 'B' or Packet 'C', and if not satisfied, concerned A.M.C. will take decision as per second appeal made by the bidder.

This Grievance Redressal Committee (GRC) will be operated through DMC(CPD) office where appeals of aggrieved bidder will be received with fee of Rs.25,000/- from aggrieved bidder. The necessary 158orrespondence in respect of said applications to the aggrieved bidder & concerned department, issuing notices, arranging of Grievance Redressal Committee (GRC) with D.M.C. and further proceeding will be carried out through registrar appointed by MCGM.

No application shall be maintainable before the Redressal Committee in regard of any decision of the M.C.G.M. relating to following issues:

Determination of need of procurement

The decision of whether or not to enter into negotiations.

Cancellation of a procurement process for certain reasons.

On receipt of recommendation of the Committee, it will be communicated his decision thereon to the Applicant within 10 days or such further time not exceeding 20 days, as may be considered necessary from the date of receipt of the recommendation and in case of non-acceptance of any recommendation, the reason of such non-acceptance shall also be mentioned in such communication.

Additional Municipal Commissioner and/or Grievance Redressal Committee, if found, come to the conclusion that any such complaint or review is of vexatious, frivolous or malicious nature and submitted with the intention of delaying or defeating any procurement or causing loss to the procuring entity or any other bidder, then such complainant shall be punished with fine, which may extend to Five Lac rupees or two percent of the value of the procurement, whichever is higher.

Full Signature of the tenderer with

Official Seal and Address

PROFORMAS:

PROFORMA-I

The list of similar works as stated in para 'A' of Post qualification during last seven years-

	PROFORMA- I						
Sr.No.	Name of the Project	Name of the	Stipulated	Actual date	Actual Cost of		
		employer	date of	of completion	work done		
			completion				
1	2	3	4	5	6		

NOTE:

- a. 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.
- b. Works shall be grouped financial year-wise.

PROFORMA-II

Yearly turn over during the last three 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							
Total					'		

NOTE: The above figures shall tally with the audited balance sheets uploaded by the tenderers duly certified by Chartered Accountant.

PROFORMA-III

At least similar work, as stated in para 'A' of Post qualification,

	PROFORMA- III						
							Remarks
Name	Name of	Cost of	Date of is-	Stipulated	Actual	Actual	explaining
of the	the	the	sue of work	Date of	Date of	cost of	reasons
Project	Employer	Project	Order		Completion	work	for
Troject	Employer	Troject	Order	Completion	Completion	done	delay, if
							any
1	2	3	4	5	6	7	8

Note: Scanned Attested copies of completion/performance certificates from the Engineer-incharge for each work should be annexed in support of information furnished in the above proforma.

PERSONNEL

PROFORMA- IV (Not Applicable)

	PROFORMA- IV					
	Post	Name	Qualification	Work Ex	xperience	
Sr.		(Prime			Name of the	
No.		Candidate / Alternate)		No. of Years	Project	
	Principal	Ancinac				
1	Technical					
	Representative					
	Project / Site					
2	Engineer or					
	Engineer					

NOTE: Scanned Attested copies of qualification certificates and details of work experience shall be submitted /uploaded.

MACHINERY: (for special work only) (Not Applicable)

PROFORMA- V/A

	PROFORMA- V/A					
Sr.No.	Equipment	Number	Owned/Leased/Assured access			
1	2	3	4			

PROFORMA- V/B

	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 (Not applicable)

Details of Existing Commitments and ongoing 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	
l	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 (Not applicable)

Details of works for which bids are already uploaded -

	PROFORMA - VI / B					
Descriptio	Place	Name &	Value of	Time	Date on which	Remar
n of Work		Addresses of	Contract	Perio	decision is	ks
		employee	in Rs.	d	expected	
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- VIIInformation on Litigation History in which the applicant is involved.

	PROFORMA - VII							
Other Party (/Parties)	Employer	Cause of Dispute	Amount involved	Remarks showing Present Status.				
1	2	3	4	5				

Note:

- 1) Scanned Attested copies of completion / performance certificates from the Engineer-incharge for each work should be annexed and uploaded.
- 2) 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, 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 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 timeframe.

Annexure-I

DEVIATION SCHEDULE

Sub: Revalidation survey and updation in GIS network of S.O. department as per tender specification

The Tenderer shall state briefly any deviation from the specifications, contained in his main offer.

Sr. No.	Item	Deviation	Remarks

Signature of authorised person of concern/company