









Mithi River Water Quality Improvement Project

Package 3: Dry Weather Flow Interception at Tidal Outfalls

(including Gate Pumps), Transfer Sewer, Training of River (Retaining wall and Service Road), Beautification including Promenades and Allied Works from CST Bridge to Prem nagar outfall,

Kurla including Vakola River.

Design Build Operate Contract

Volume 5 - Background Information

Employer: Municipal Corporation of Greater Mumbai

Municipal Head Office Building, Mahapalika Marg, Fort, Mumbai - 400 001.

Consultant:

Frischmann Prabhu (India) Pvt. Ltd.

315, Balgovind Wadi, New Prabhadevi Road, Prabhadevi, Mumbai - 400 025



MUNICIPAL CORPORATION OF GREATER MUMBAI

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TABLE OF CONTENTS

1	Introd	luction	. 1		
2	Information Provided				
	2.1	Tidal Area Flow and Load Data	2		
	2.2	Ground Investigation Data	2		

1 Introduction

This volume contains background information provided in conjunction with the Tender Documents for the wastewater interception, transfer and adjacent beautification works.

Attention is drawn to Instruction to Tenderers section 7.0 and to the amended Clause 4.10 of the Conditions of Contract.

The Employer and its agents do not represent or warrant the accuracy or completeness of any information set out in this document or of any other background or reference information or documents prepared by the Employer or by third parties.

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Background of Mithi River Quality Improvement Project:

MCGM had appointed the Consultant, M/s. Frischmann Prabhu (I) Pvt. Ltd. to suggest Short Term & Long Term measures for Mithi River Water Quality Improvement. After survey & study the Consultant had proposed Short Term Works and Long Term Works in 4 different packages to divert Dry Weather Flow of about 285 MLD discharging into Mithi River to Municipal Sewer system.

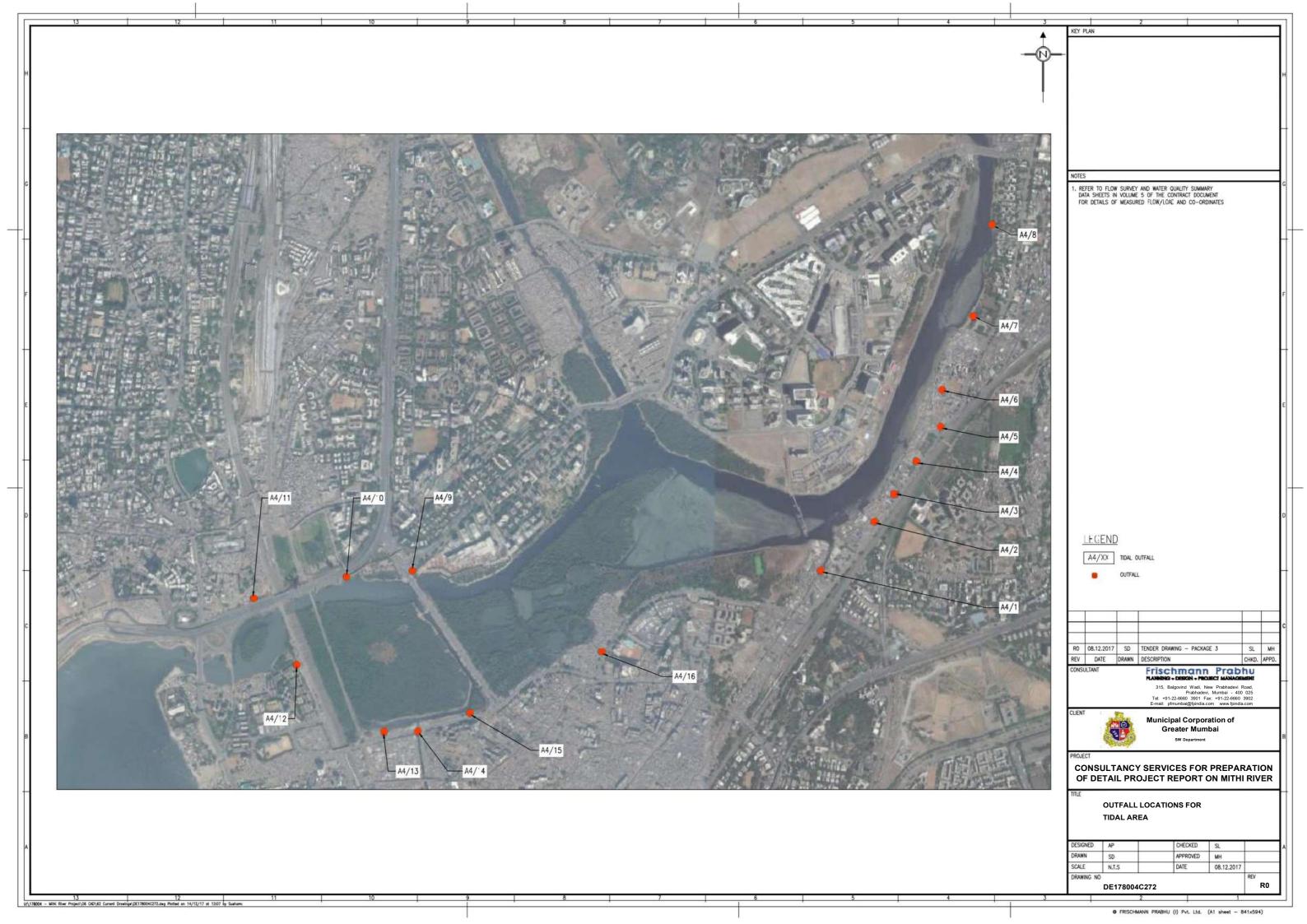
Package- I comprises of Providing & Laying Sewer line of 1.65 km length along banks of Mithi River from Filter Pada to WSSD Garage at Powai, Construction of Influent Pumping Station, Effluent Pumping Station and 8 MLD STP at WSSD Garage and Construction of service roads along banks of Mithi River.

Package II (from WSSD garage to CST Bridge) works are located in non-tidal influence zone. It includes 8.07 km length of sewer line along and nearby Mithi River and 102 nos. of minor interceptors to divert DWF from minor nallas to Municipal sewer network system. Along with this, works of retaining wall of 3.325 km length, service road of 9.375 km length are also proposed.

Package III (from CST bridge to Mahim Causeway including Vakola River), works are located in tidal influence zone. It includes training of river (Construction of Retaining Wall & Service Road), Pumping Stations, Interceptions & Diversion works for diverting Dry Weather Flow (DWF) of various outfalls / nallas into nearby existing Municipal Sewer networks along with Gate Pumps, Beautification including Promenades & allied works.

It comprises of Sewer line work (7.61km), Retaining Wall (7.490 km), Service Roads (6.421 km), 28 nos. of Interceptors, 26 nos. of Gate Pumps, 3 nos. of Sewage Pumping Stations and 8.850 kms of beautification of river including Promenades with their O&M for 10 years.

Package IV- This work comprises of construction of Tunnel for diversion of intercepted Dry Weather Flow from Bapat Nalla and Safed Pool Nalla to the proposed WwTF at Dharavi. The diameter of proposed sewer tunnel is 2.6m and length is about 6.5km.



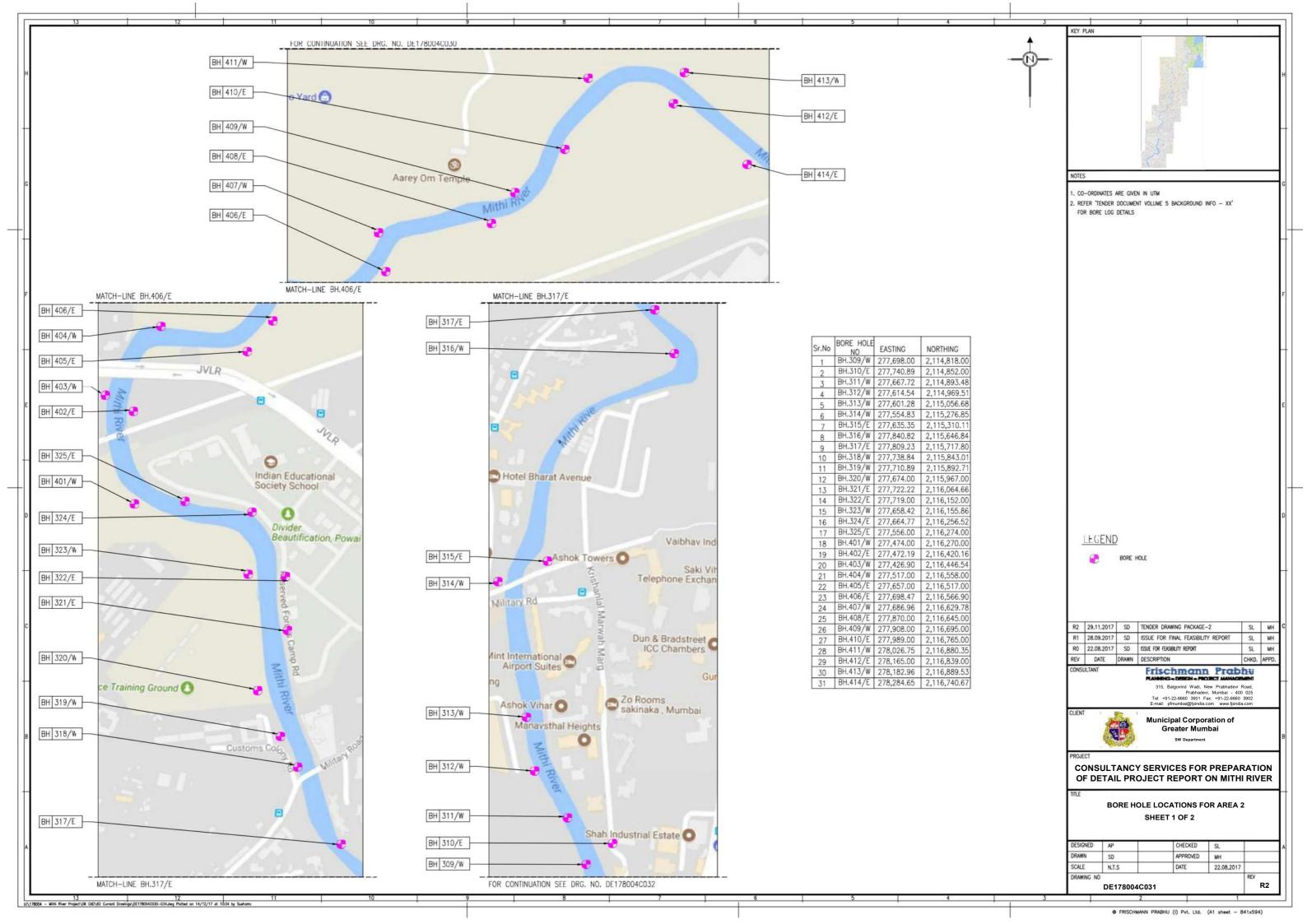
2 INFORMATION PROVIDED

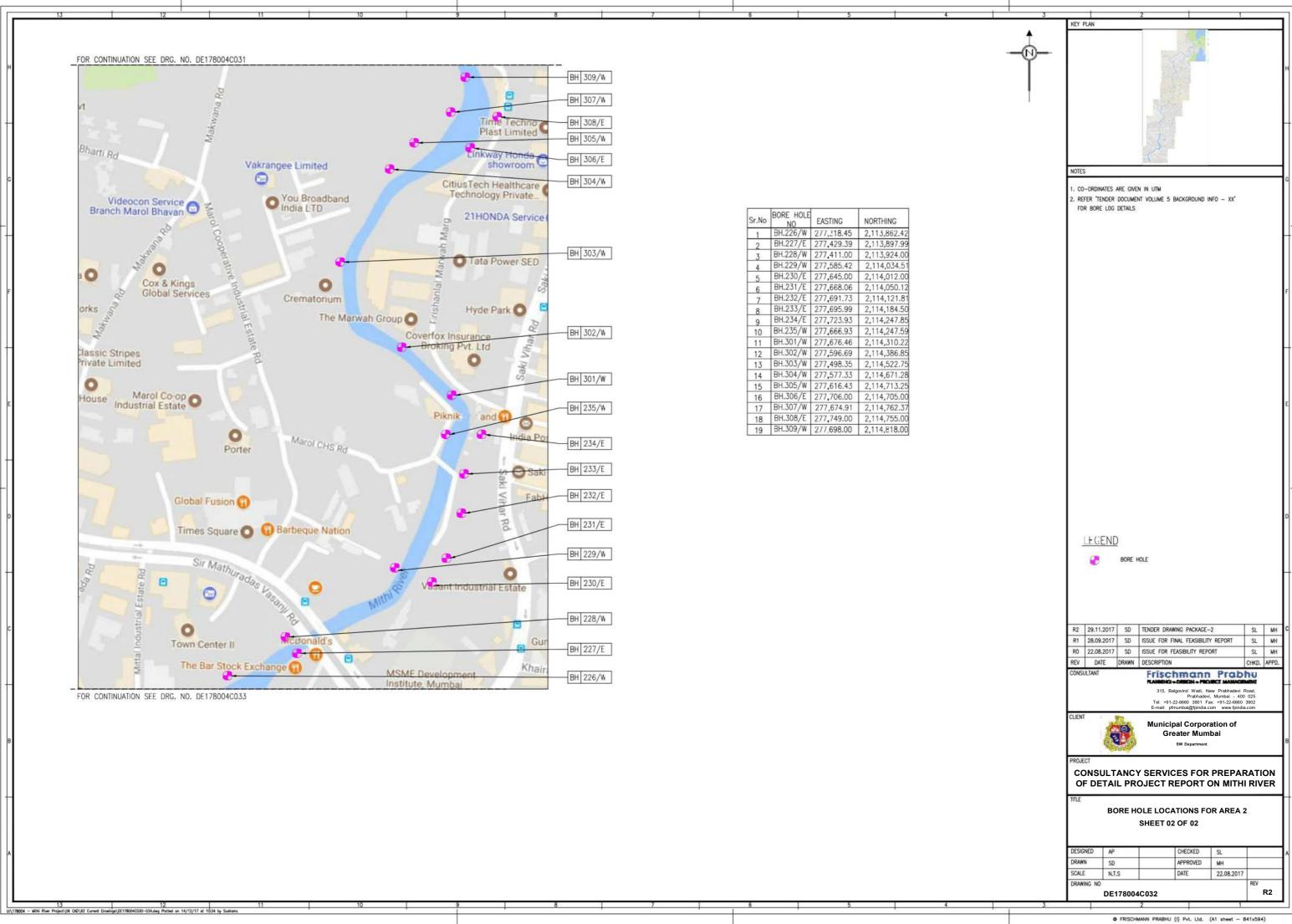
2.1 Tidal Area Flow and Load Data

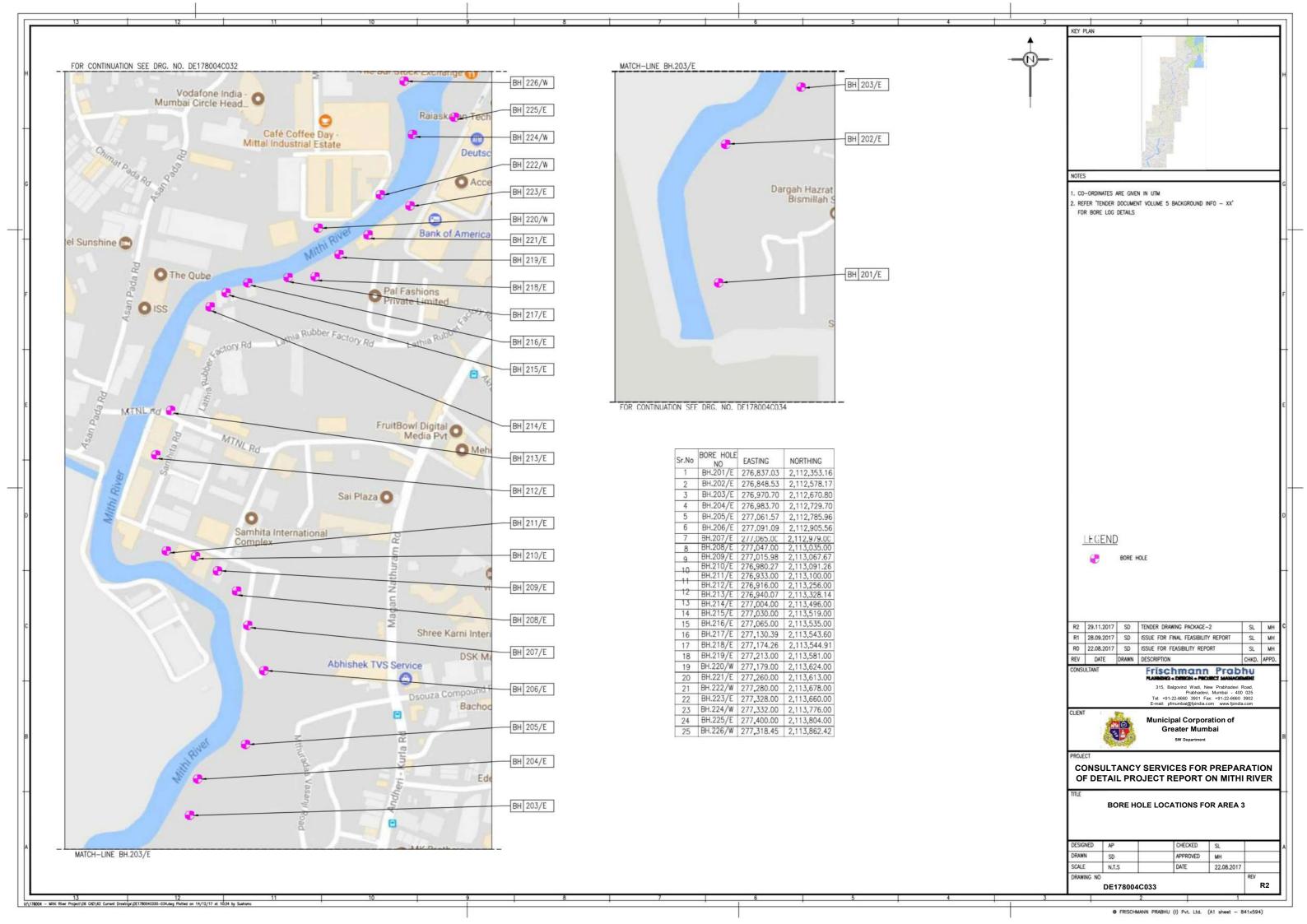
Sr. No.	Tidal Area Location Ref.	MLD Day 1	MLD Day 2	MLD Day	Max (MLD)	Additional Comments
1	A4-9	1.37	1.64	1.80	37.04	Kalanagar
2	A4-10	7.67	4.03	9.67	37.04	Indian Oil
6	A4-11	1.89	2.41	1.00	5.71	WEH
3	A4-14	19.17	18.43	14.57	61.70	L bridge
4	A4-15	6.47	8.95	10.89	36.46	Metro
5	A4-16	0.39	0.29	0.53	2.21	Krida Sankul
	TOTAL	36.96	35.77	38.46	180.16	

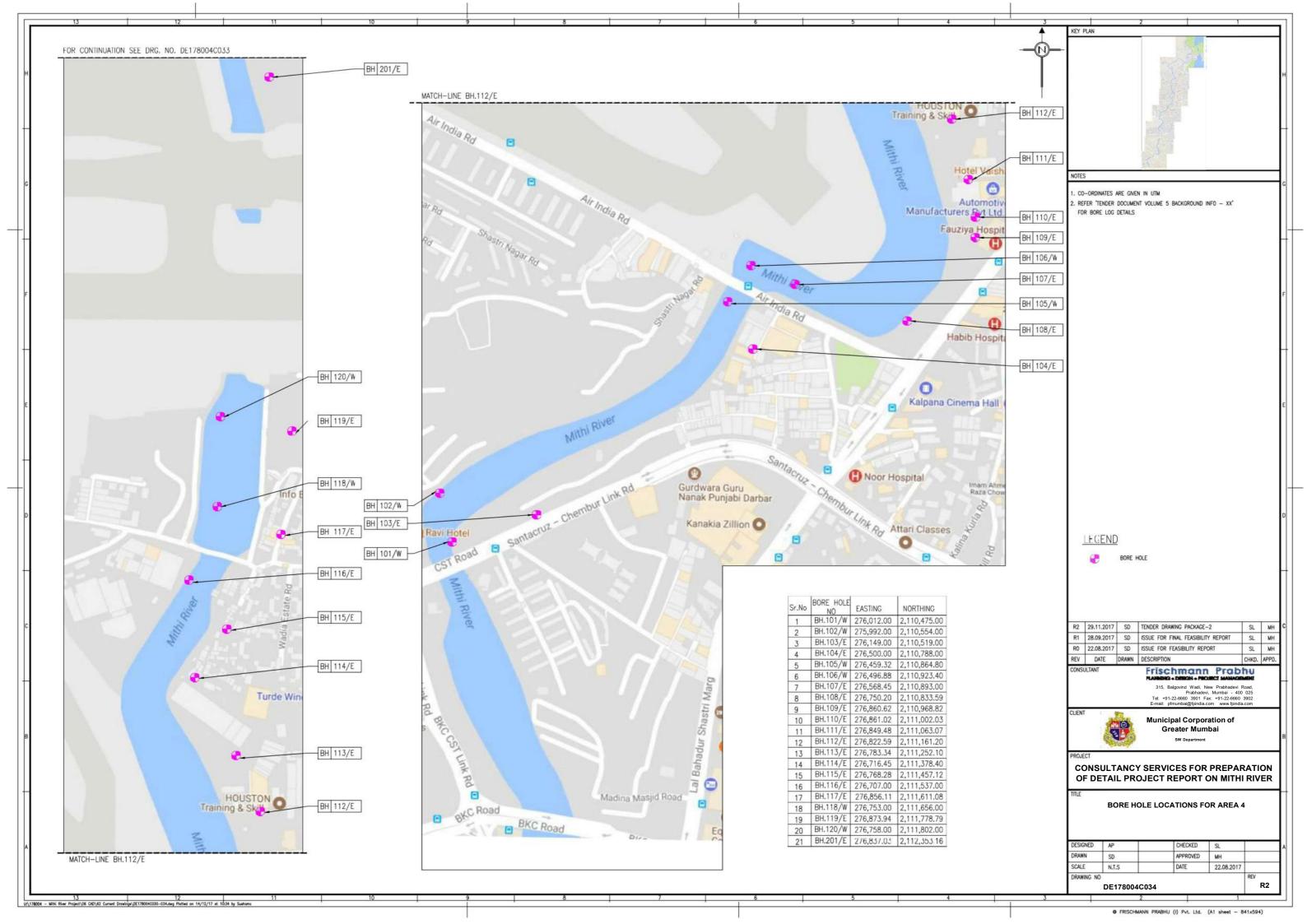
2.2 Ground Investigation Data

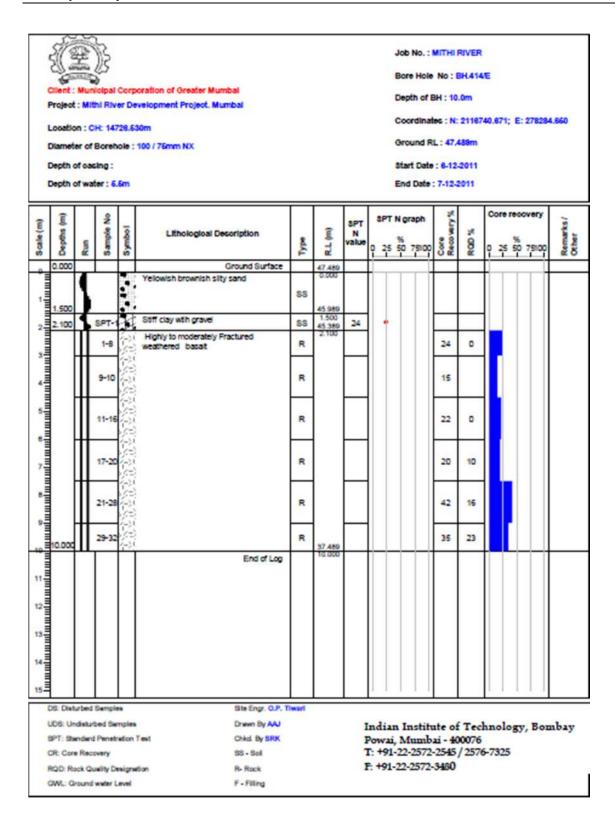
Bore Hole Location Plan with Bore Logs

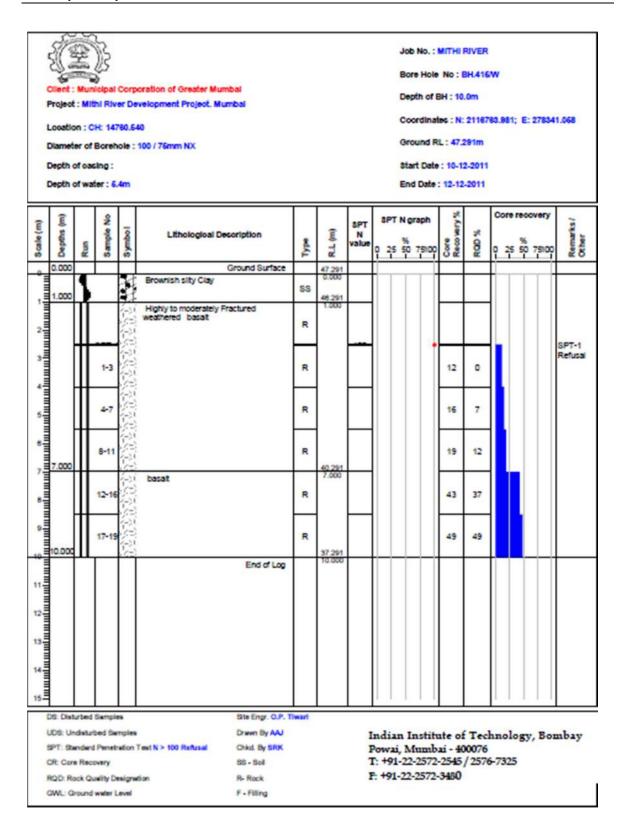


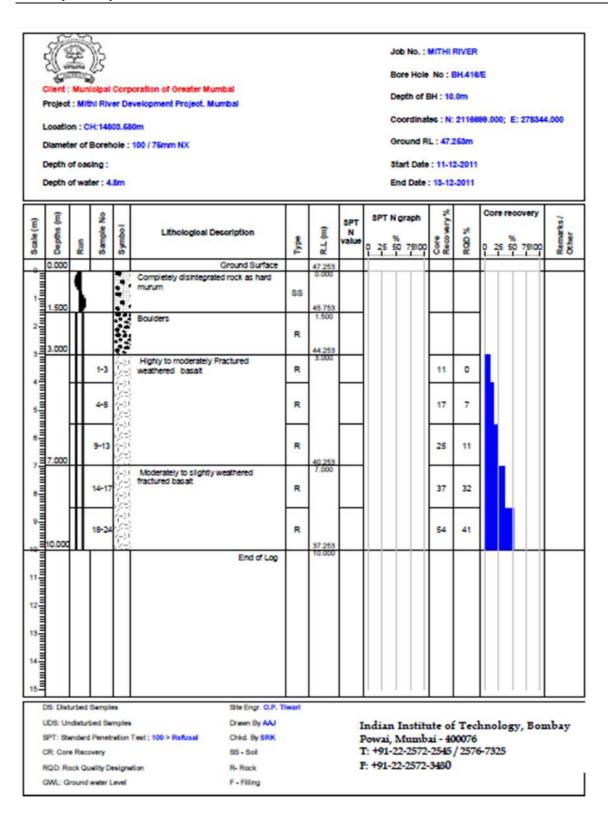


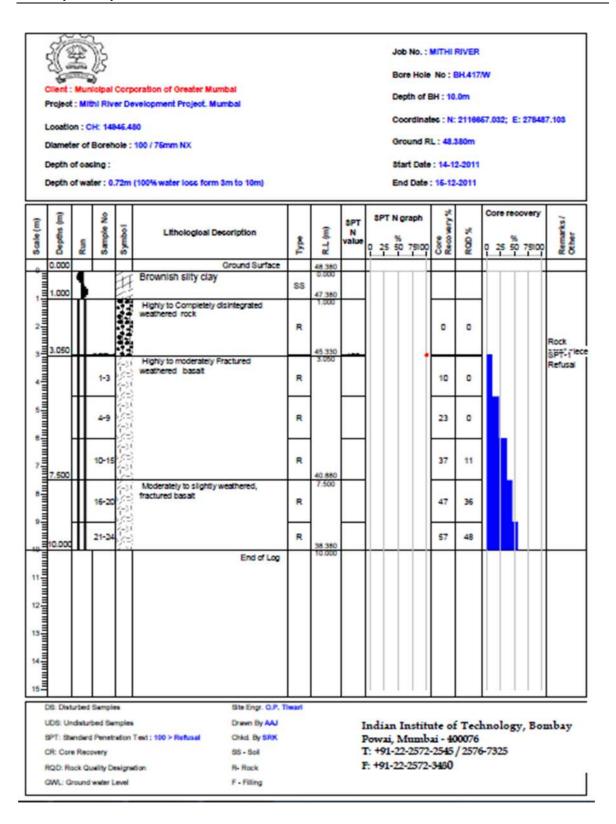


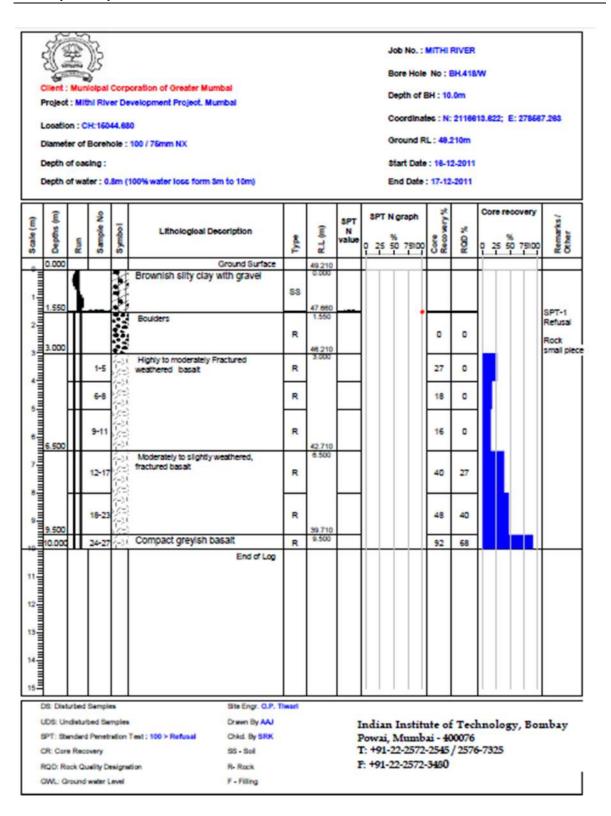


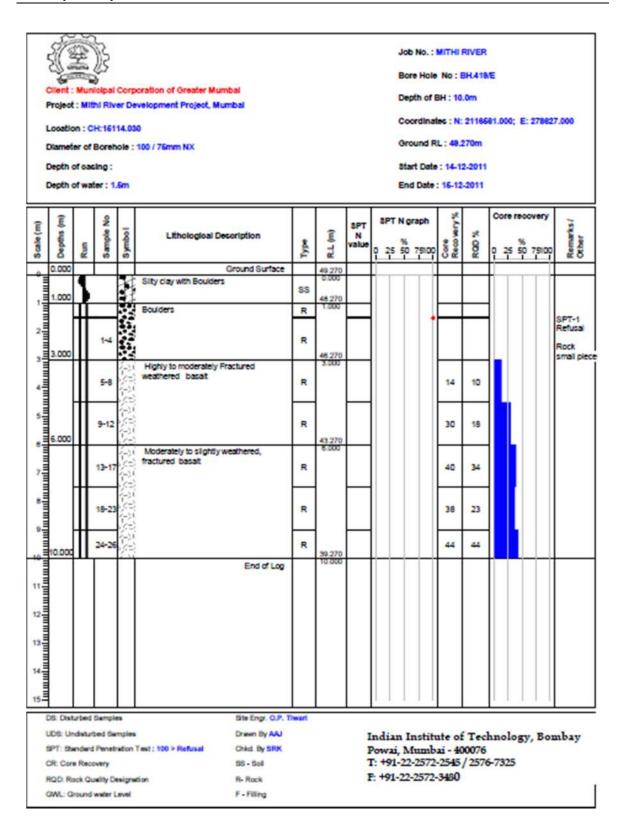


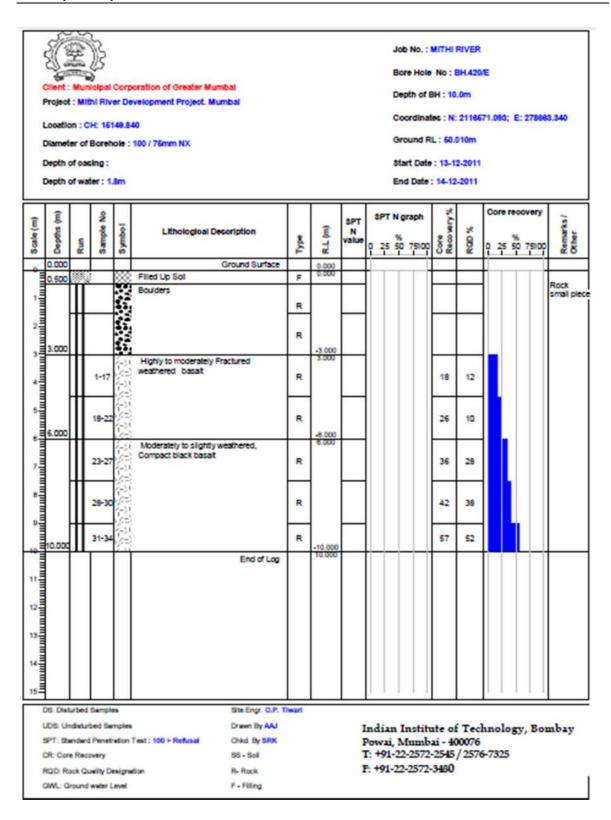


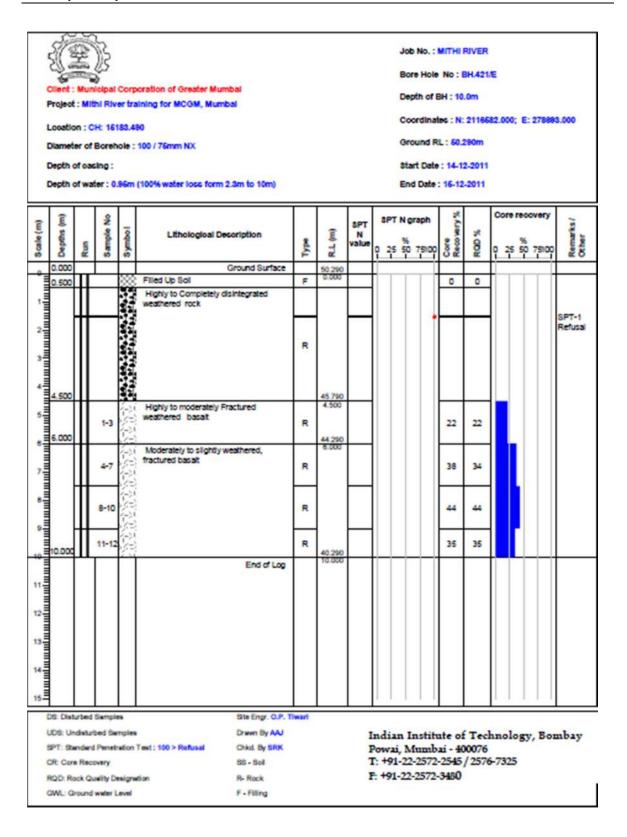


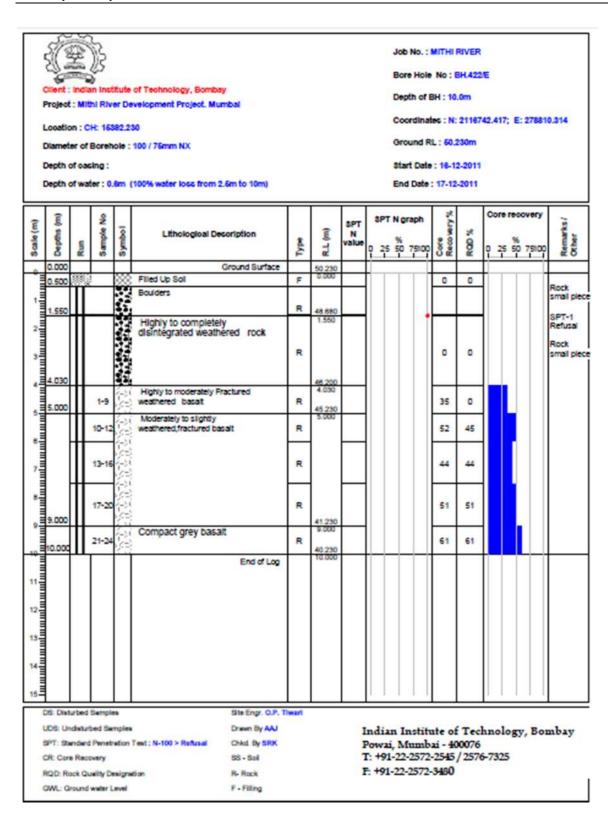


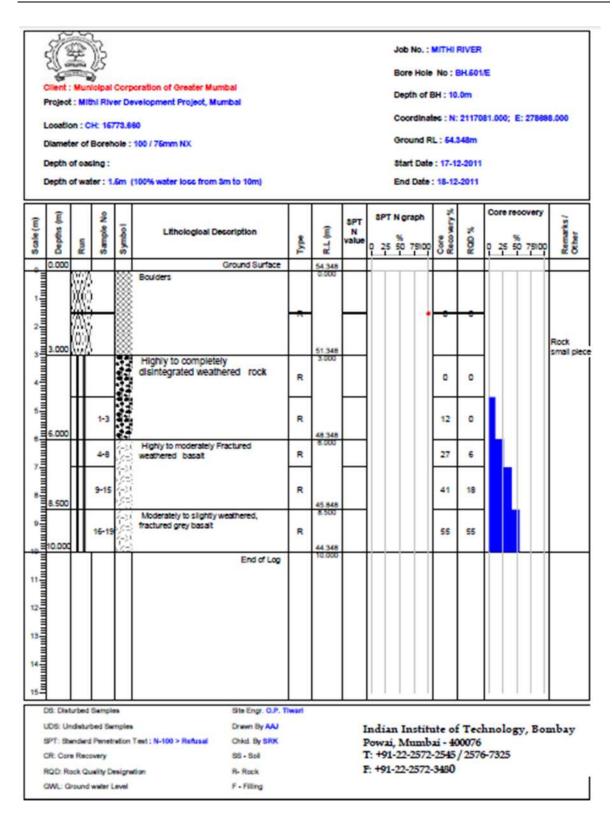


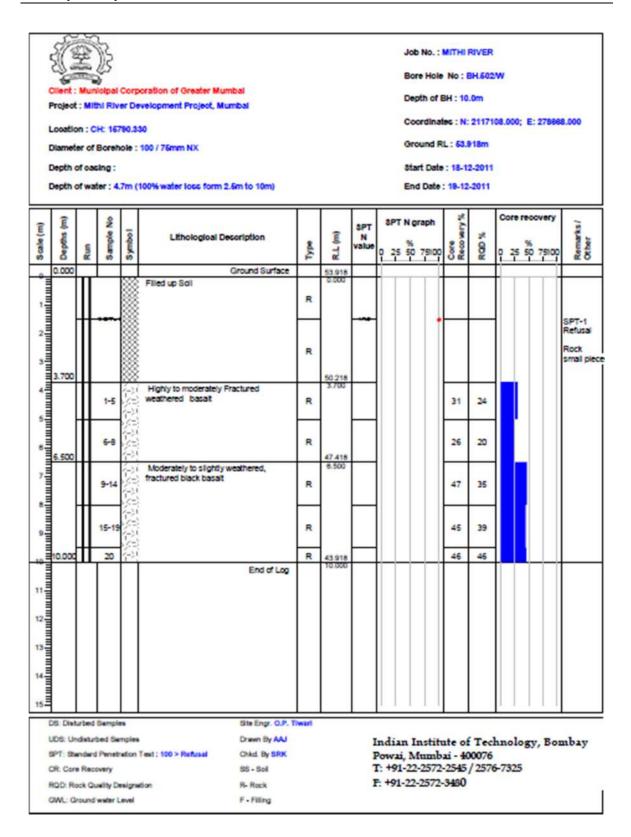


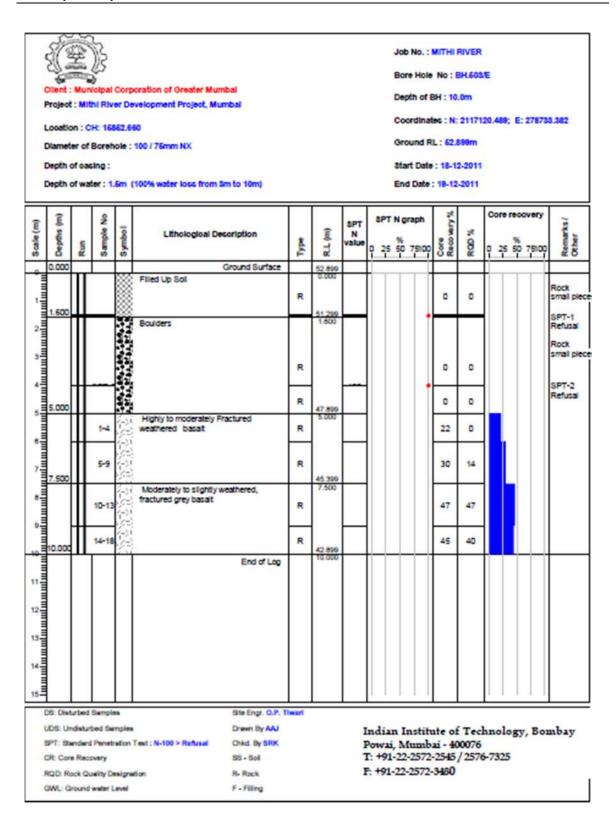


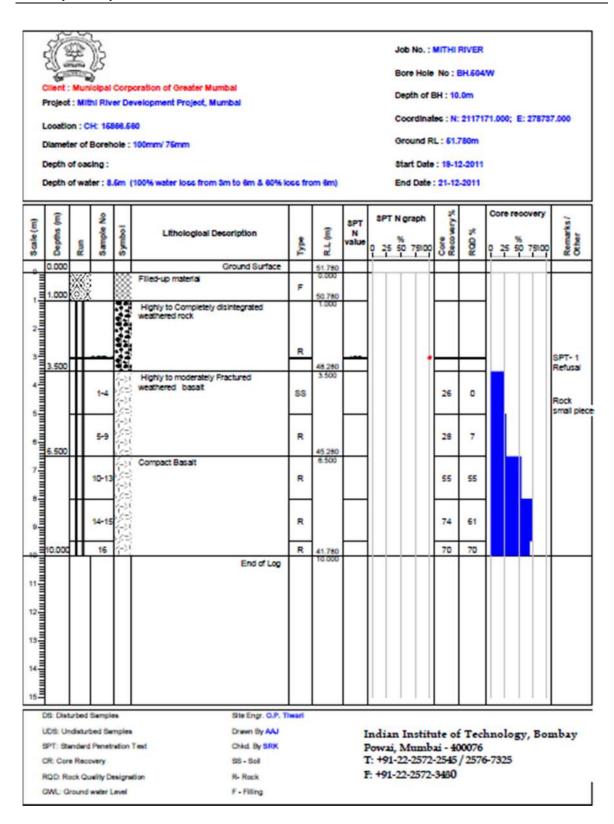


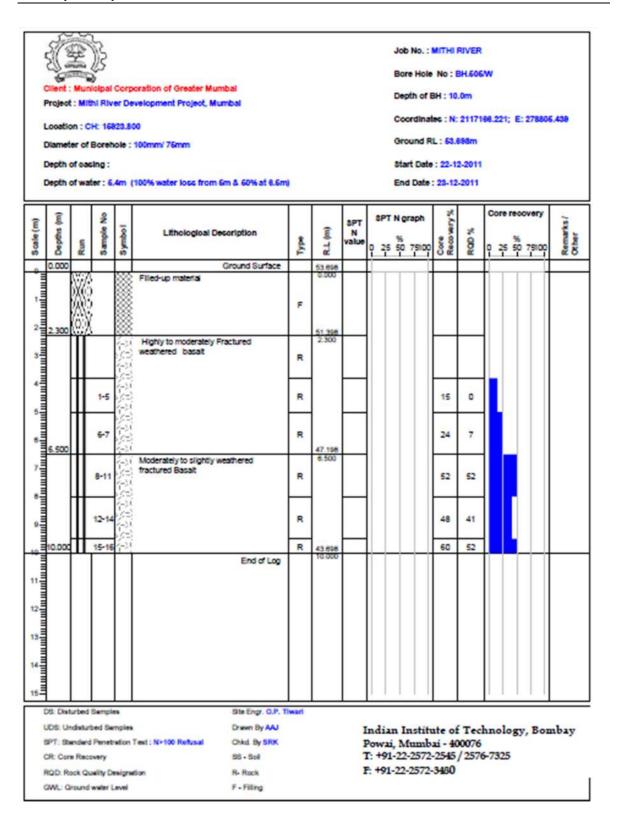


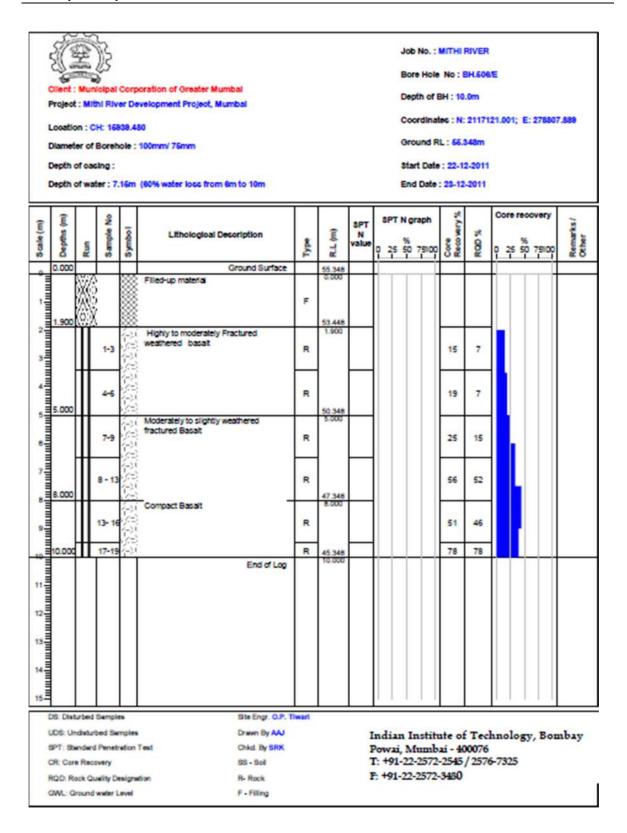


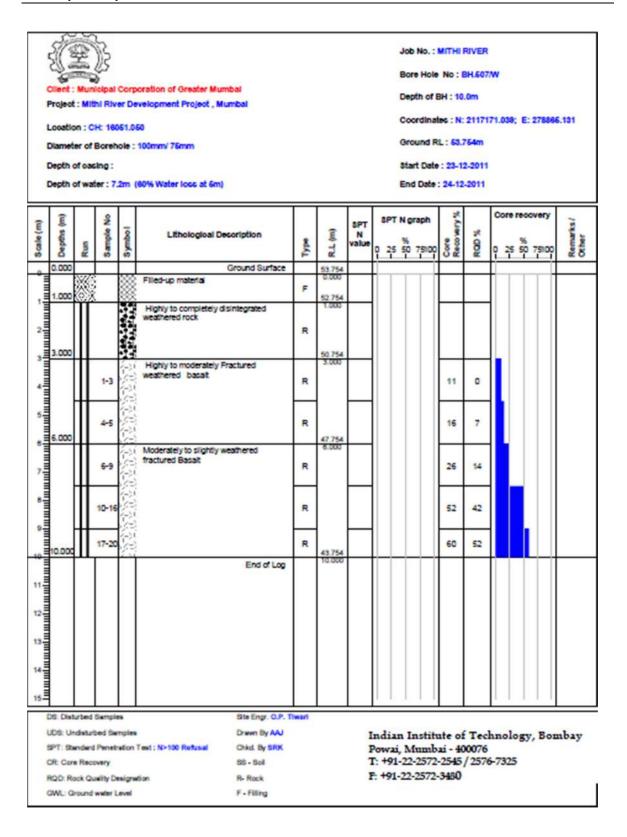


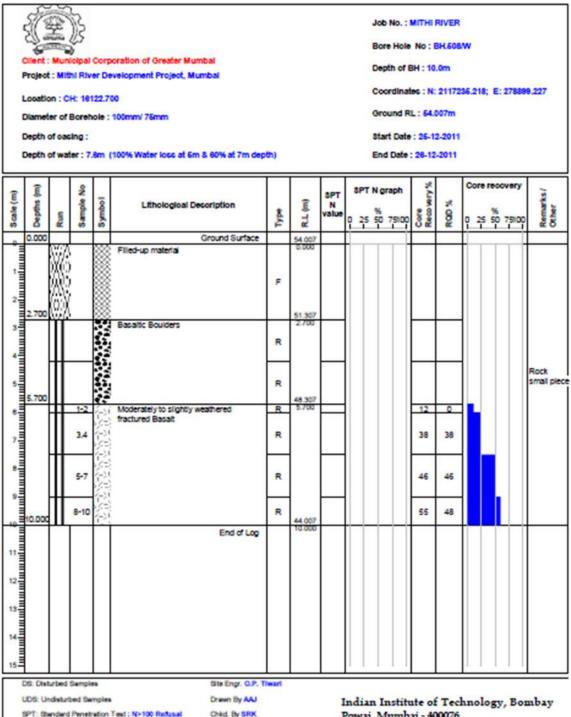












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