VALSAD NAGARPALIKA

Providing, Laying, Jointing, Testing of Rising mains from Abhrama Headwork to Kalyanbaug Sump and from Kalyanbaug Sump to ESR at Tithal Road including connection pipeline from Tithal Road ESR to existing network. Designing, Constructing, Testing & Commissioning of Elevated Service Reservoir (ESR). Design, Supply, Installation, Testing and Commissioning of Instrumentation & SCADA system for all the head works and House Service Connections for Valsad including all allied works complete and post completion operation & maintenance for five years

PROJECT FUNDED UNDER AMRUT SCHEME

VOLUME – V

DRAWINGS

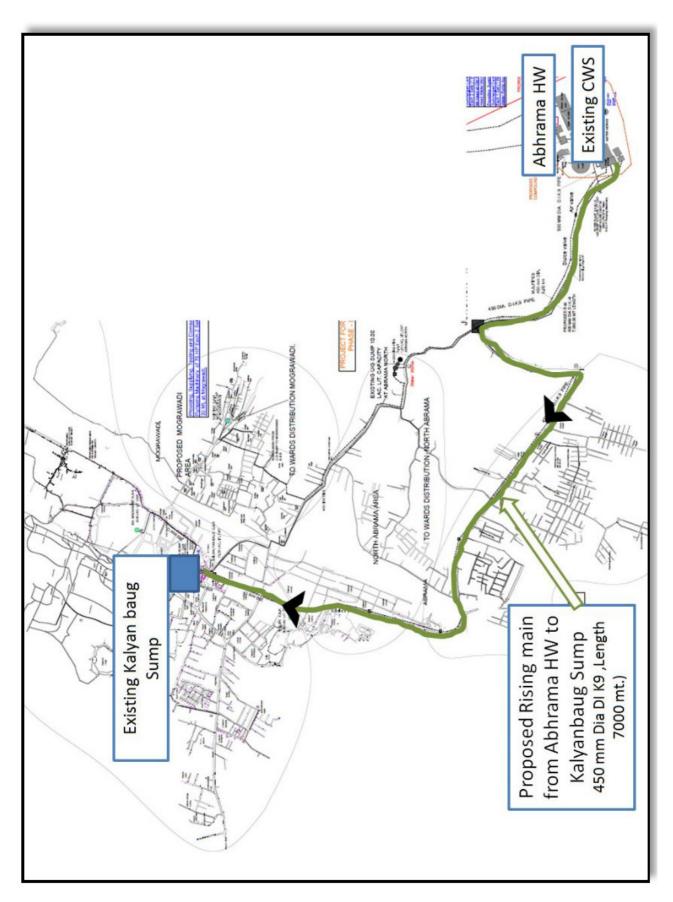
Milestone Dates	
Online Downloading of Technical Bid & Price Bid	AS Per Volume I
Pre – Bid Conference	AS Per Volume I
Last Date of Online Submission of Technical Bid & Price Bid	AS Per Volume I
Last Date for Physical Submission of Tender Fee, EMD and other Documents	AS Per Volume I
Online Opening of the Technical Bid	AS Per Volume I

CONSULTANT:

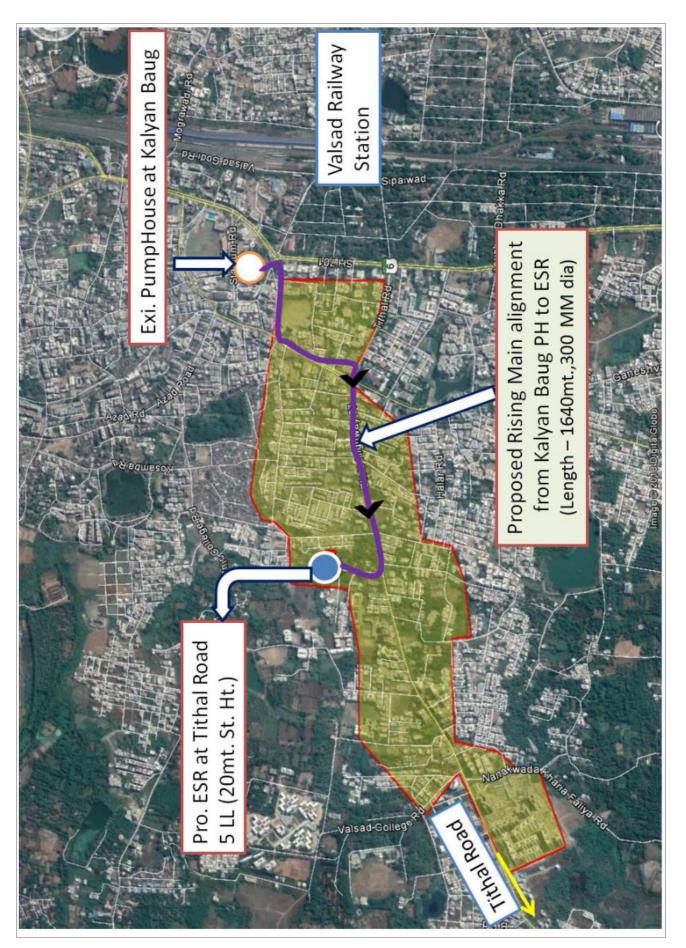
TATA Consulting Engineers Ltd. 1st Floor, Office No 106-109 "B"Atria Complex, KH-O, Sargasan Cross road, Gandhinagar - 382427

CLIENT:

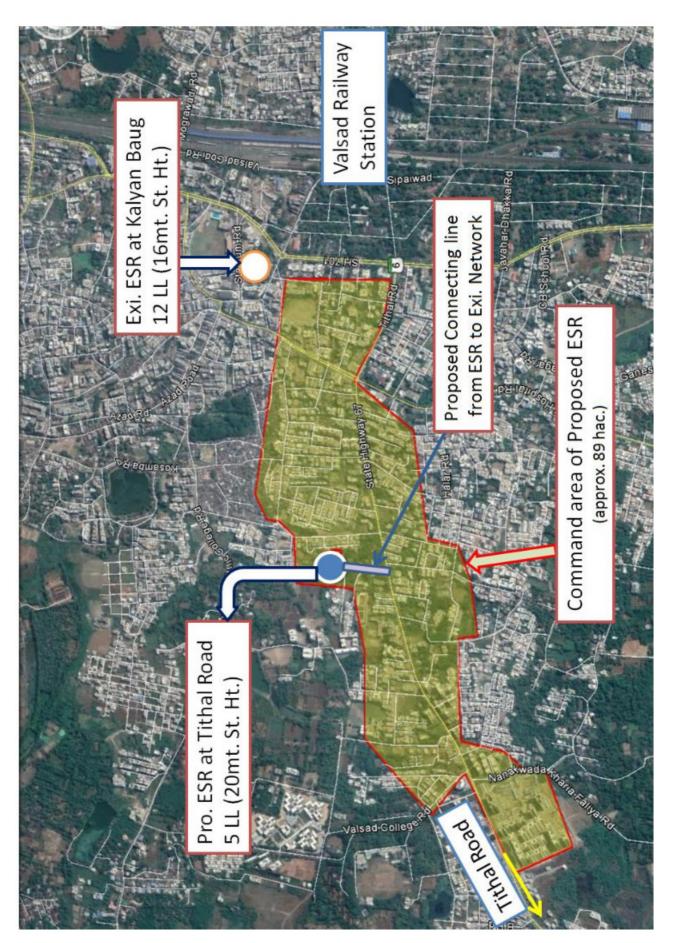
Chief Officer Valsad Nagarpalika, Azad Chowk, Valsad 396 001 Ph no. 02632-242702, 242605 E-mail: 'np_Valsad@yahoo.co.in'



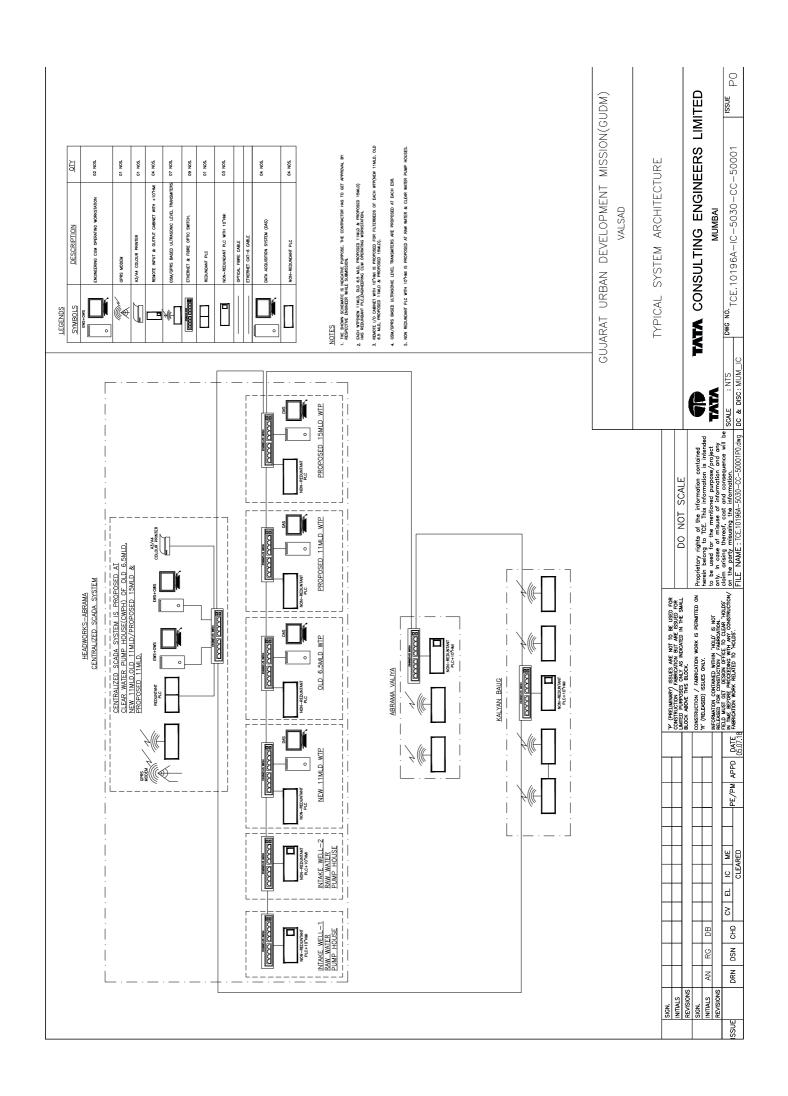
Details for Proposed Rising Main from Abhrama Headwork to Kalyan Baug Sump - For Tender reference only

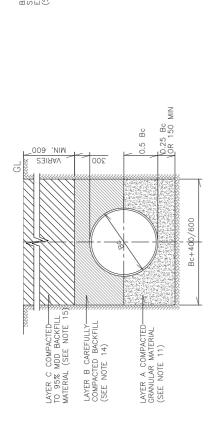


Details for Proposed Rising Main from Kalyan Baug Sump to ESR at Tithal Road - For Tender reference only

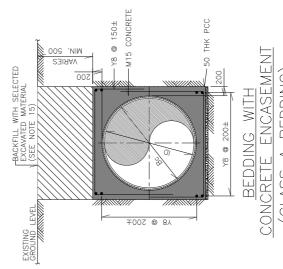


Details for Proposed ESR at Tithal Road and Connection Pipeline from ESR to Existing Network - For Tender reference only

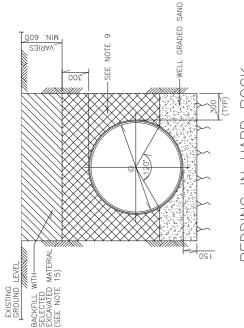




GRANULAR BEDDING



BEDDING (CLASS A



(CLASS N BEDDING-NO WHEEL LOAD) BEDDING IN HARD ROCK

LEGEND

TYP — TYPICAL UN ——
THK — THICK
THK — THICK
THE — THICK
ID — INTERNAL DIAMETER
BC — COUTER DIAMETER OF PIPE
CC — CEMENT CONCRETE
CC — CEMENT CONCRETE
DI — DUCTILE IRON

NOTES:

1. <u>ALL DIM</u>ENSIONS ARE IN MILLIMETRES AND LEVELS IN METRES UNLESS NOTED. 2. CONCRETE GRADE SHALL BE M15 WITH 20mm DOWNGRADED AGGREGATES FOR CLASS A BEDDING.

3. STEEL FOR REINFORCEMENT SHALL BE HIGH YIELD STRENGTH DEFORMED BARS OF GRADE Fe415 CONFORMING TO IS:1786.

REINFORCEMENT WHERE SPLICED SHALL HAVE A MINIMUM LAP OF 50 X BAR DIAMETER. LAPS SHALL BE STAGGERED.

5. CLEAR COVER TO REINFORCEMENT FOR CLASS A BEDDING SHALL BE 50mm.

6. CLASS N BEDDING SHALL ONLY BE PROVIDED WHERE THE PIPE TRENCH IS FOUNDED IN HARD ROCK OR OTHERWISE AS DIRECTED BY THE ENGINEER.

7. CLASS A BEDDING SHALL BE PROVIDED AT ROAD/ NALLA CROSSINGS FOR A DISTANCE OF 5 METRES ON EITHER SIDE OF THE ROAD/NALLA OR AS DIRECTED BY THE ENGINEER.

8. PLAIN CEMENT CONCRETE UNDER FOUNDATION SHALL BE OF GRADE M10 CONFORMING TO IS 456.

9. BACKFILL AROUND PIPE AND 300mm ABOVE PIPE SHALL BE WITH SOFT SOIL. BACKFILLING SHALL BE DONE AS PER SPECIFICATIONS.

10. SAND USED FOR BEDDING SHALL BE NATURAL SAND WITH GRADED FORM FINE TO COURSE. ALL MATERAL SHALL PASS THROUGH A 2nm SIFE & NOT MORE THAN 95% REMAIN ON 0.63MM 15. SIEVE.

11. GRADED HARD CRUSHED BROKEN STONE OR GRAVEL 100% PASSING THROUGH 20mm IS SIEVE 20 TO 50% PASSING THROUGH 10mm IS SEIVE AND 100% RETAINED ON 6mm IS SIEVE.

12. GOOD QUALITY OF MIRUM SHALL BE USED FOR BEDDING (PARTICLE SIZE 0.2mm TO 3.0mm) FREE FROM SILT AND CLAY CAN BE USED AS AN ALTERMATE OPTION TO GRANULAR/SAND BEDDING FOR DI PIPELINES.

13. UP TO DEPTH OF 2M., TRENCH WIDTH SHALL BE KEPT AS BC+400. FOR DEPTH ABOVE 2M, TRENCH

WIDTH SHALL Bc+600.

14. BACKFILLING (LAYER B) WITH APPROVED SELECTED EXCAVATED MATERIAL AND COMPACTION SHALL BE DONE BY HAND OR APPROVED MECHANICAL METHODS IN LAYERS OF 150mm WITH SPECIAL CARE TO AVOID DAMAGE TO THE PIPE.

BACKFILLING (LAYER C) SHALL BE DONE WITH EXAMPLED MAFREAL BY HAND OR APPROVED MECHANICAL METHODS. IN LAYER NOT EXCEDING 15 CM. THICKNESS AFTER COMPACTING WEITED AND COMPACTED TO A DENSITY OF NOT LESS THAN 95% CON MENTION DRY DENSITY AT OPTIMUM MOISTURE CONTENT OF THE SURROUNDING MATERIAL. 15.

LAYER A COMPACTED GRANULAR MATERIAL
LAYER B CAREFULLY COMPACTED BACKFILL
MATER C COMPACTED TO 95% MDD BACKFILL
MATERIAL

CONSTRUCTION REFERENCE DWGS

The Content of this document are proprietory and confidential to Tala Consulting Engineers Limited (TCE)

	and t TCE	he disclos is strictly pent from T	connection to raise consuming Engineers Enringed (12) and the disclosure of the contents to anyone outside TCE is strictly prohibited except with the prior written consent from TCE.	g Engineers ents to anyon tot with the I	commentar to rate consuming Lingineers Limited (1967) and the disclosure of the contents to anyone outside TCE is strictly prohibited except with the prior written consent from TCE.
		O NOT	DO NOT SCALE		
		TYPIC/	TYPICAL DETAILS OF BEDDING FOR	OF BED	DING FOR
IMILED			DI PIPES IN TRENCHES	N TRENC	HES
	SCALE: NTS		APPROVED ASG		DATE (RO ISSUE)
					(11117-11111111111111111111111111111111

TATA CONSULTING ENGINEERS

CLIENT : PROJECT

TWO THE PROPERTY OF THE PROPER

APPD DATE FILE NAME:M2CVRCF-119

CIVIL ELEC 1&C MECH CLEARED

DRN

REVISIONS

ISSUE

FOR R0 ISSUE ONLY CLEARED DATE

SCALE:	NTS	APPROVED	VOV	DATE (RO ISSUE)	
SETINGO 190			200	24-03-2015	Ω
DISC:	MUM-CV			DATE (CURRENT	ISSNE)
	0111	355		24-03-2015	ır.
. CEN	MMS	4		0	1
		DWG			ISSOF
CHD: AC	AC.	NO TCE.	TCE.M2-CV-RC-F-119	F-119	8

