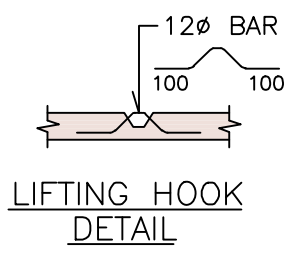
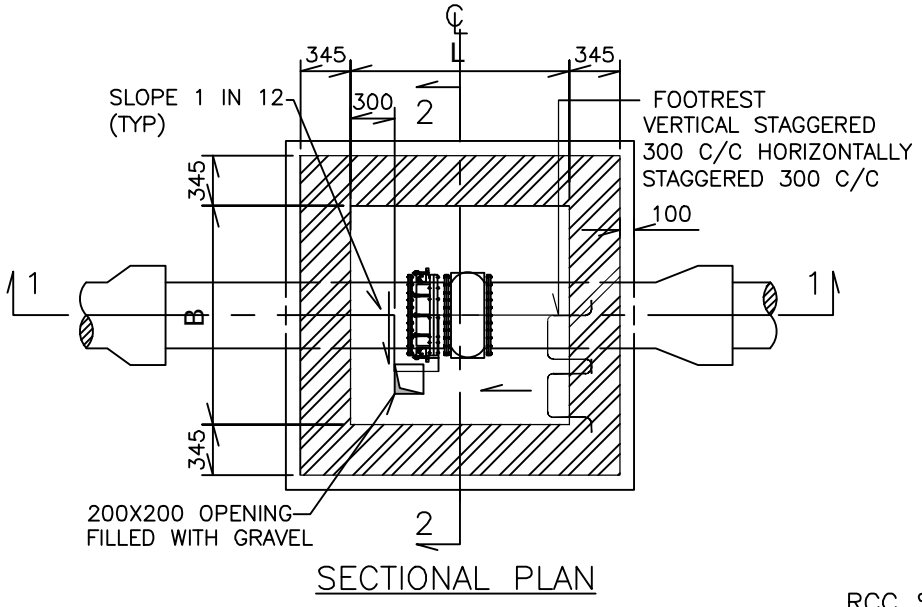
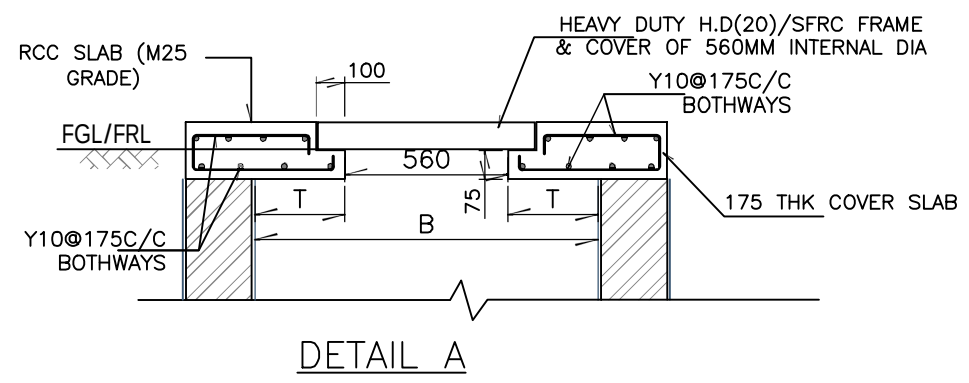
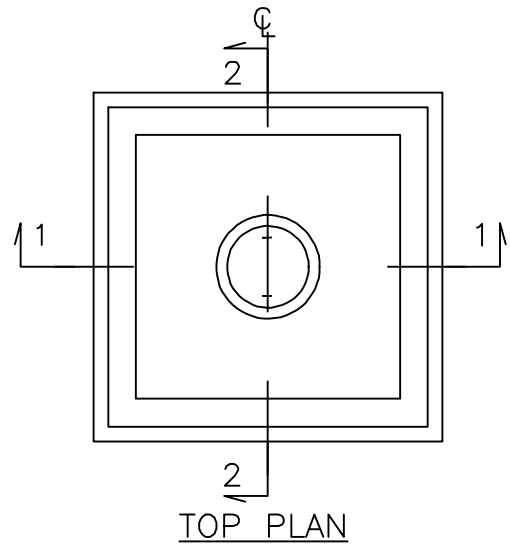


Drawing List - Mandi District - 02 (Package-8)					
S.NO.	DRAWING. NO.	SOFT COPY FILE NAME	TITLE	SIZE	ISSUE
1	TCE.12503A-CV-3005-LM-36001	12503A-CV-36001-Rev-P0	TOPOGRAPHICAL SURVEY FOR BARAGAON-I & II CLUSTER	A3	P0
2	TCE.12503A-CV-3005-LM-36002	12503A-CV-36002-Rev-P0	TOPOGRAPHICAL SURVEY FOR DHARWAHAN-II CLUSTER	A3	P0
3	TCE.12503A-CV-3005-LM-36003	12503A-CV-36003-Rev-P0	TOPOGRAPHICAL SURVEY FOR SAWLA CLUSTER	A3	P0
4	TCE.12503A-CV-3005-LM-36004	12503A-CV-36004-Rev-P0	TOPOGRAPHICAL SURVEY FOR BAGGA CHALOG CLUSTER	A3	P0
5	TCE.12503A-CV-3005-LM-36005	12503A-CV-36005-Rev-P0	TOPOGRAPHICAL SURVEY FOR LATOGALI-I CLUSTER	A3	P0
6	TCE.12503A-CV-3005-LM-36007	12503A-CV-36007-Rev-P0	TOPOGRAPHICAL SURVEY FOR DARVEHAD CLUSTER	A3	P0
7	TCE.12503A-CV-3005-LM-36008	12503A-CV-36008-Rev-P0	TOPOGRAPHICAL SURVEY FOR MANJHOG DHANIUT CLUSTER	A3	P0
8	TCE.12503A-CV-3005-LM-36009	12503A-CV-36009-Rev-P0	TOPOGRAPHICAL SURVEY FOR MANJHAGAN CHUDARA CLUSTER	A3	P0
9	TCE.12503A-CV-3005-LM-36010	12503A-CV-36010-Rev-P0	TOPOGRAPHICAL SURVEY FOR DHANIYARA CLUSTER	A3	P0
10	TCE.12503A-CV-3005-LM-36011	12503A-CV-36011-Rev-P0	TOPOGRAPHICAL SURVEY FOR BINOL CLUSTER	A3	P0
11	TCE.12503A-CV-3005-LM-36012	12503A-CV-36012-Rev-P0	TOPOGRAPHICAL SURVEY FOR PALHOTA CLUSTER	A3	P0
12	TCE.12503A-CV-3005-LM-36013	12503A-CV-36013-Rev-P0	TOPOGRAPHICAL SURVEY FOR KUTHAIN CLUSTER	A3	P0
13	TCE.12503A-CV-3005-LM-36014	12503A-CV-36014-Rev-P0	TOPOGRAPHICAL SURVEY FOR BHANTRAED CLUSTER	A3	P0
14	TCE.12503A-CV-3005-LM-36015	12503A-CV-36015-Rev-P0	TOPOGRAPHICAL SURVEY FOR KHAGRON CLUSTER	A3	P0
15	TCE.12503A-CV-3082-FD-36151	12503A-CV-36151-Rev-P0	FLOW DIAGRAM FOR LIS - BARAGAON-I & II	A3	P0
16	TCE.12503A-CV-3082-FD-36152	12503A-CV-36152-Rev-P0	FLOW DIAGRAM FOR LIS - DHARWAHAN-II	A3	P0
17	TCE.12503A-CV-3082-FD-36153	12503A-CV-36153-Rev-P0	FLOW DIAGRAM FOR LIS - SAWLA	A3	P0
18	TCE.12503A-CV-3082-FD-36154	12503A-CV-36154-Rev-P0	FLOW DIAGRAM FOR LIS - BAGGA CHALOG	A3	P0
19	TCE.12503A-CV-3082-FD-36155	12503A-CV-36155-Rev-P0	FLOW DIAGRAM FOR LIS - LATOGALI-I	A3	P0
20	TCE.12503A-CV-3082-FD-36157	12503A-CV-36157-Rev-P1	FLOW DIAGRAM FOR LIS - DARVEHAD	A3	P1
21	TCE.12503A-CV-3082-FD-36158	12503A-CV-36158-Rev-P0	FLOW DIAGRAM FOR LIS - MANJHOG DHANIUT	A3	P0
22	TCE.12503A-CV-3082-FD-36159	12503A-CV-36159-Rev-P0	FLOW DIAGRAM FOR LIS - MANJHAGAN CHUDARA	A3	P0
23	TCE.12503A-CV-3082-FD-36160	12503A-CV-36160-Rev-P1	FLOW DIAGRAM FOR LIS - DHANIYARA	A3	P1
24	TCE.12503A-CV-3082-FD-36161	12503A-CV-36161-Rev-P0	FLOW DIAGRAM FOR LIS - BINOL	A3	P0
25	TCE.12503A-CV-3082-FD-36162	12503A-CV-36162-Rev-P1	FLOW DIAGRAM FOR LIS - PALHOTA	A3	P1
26	TCE.12503A-CV-3082-FD-36163	12503A-CV-36163-Rev-P0	FLOW DIAGRAM FOR LIS - KUTHAIN	A3	P0
27	TCE.12503A-CV-3082-FD-36164	12503A-CV-36164-Rev-P1	FLOW DIAGRAM FOR LIS - BHANTRAED	A3	P1
28	TCE.12503A-CV-3082-FD-36165	12503A-CV-36165-Rev-P1	FLOW DIAGRAM FOR LIS - KHAGRON	A3	P1
29	TCE.12503A-CV-3082-WS-36201	12503A-CV-36201-Rev-P0	NETWORK DRAWING FOR LIS BARAGAON-I & II	A3	P0
30	TCE.12503A-CV-3082-WS-36202	12503A-CV-36202-Rev-P0	NETWORK DRAWING FOR LIS DHARWAHAN-II	A3	P0
31	TCE.12503A-CV-3082-WS-36203	12503A-CV-36203-Rev-P0	NETWORK DRAWING FOR LIS SAWLA	A3	P0
32	TCE.12503A-CV-3082-WS-36204	12503A-CV-36204-Rev-P0	NETWORK DRAWING FOR LIS BAGGA CHALOG	A3	P0
33	TCE.12503A-CV-3082-WS-36205	12503A-CV-36205-Rev-P0	NETWORK DRAWING FOR LIS LATOGALI-I	A3	P0
34	TCE.12503A-CV-3082-WS-36207	12503A-CV-36207-Rev-P1	NETWORK DRAWING FOR LIS DARVEHAD	A3	P1
35	TCE.12503A-CV-3082-WS-36208	12503A-CV-36208-Rev-P0	NETWORK DRAWING FOR LIS MANJHAGAN CHUDARA	A3	P0
36	TCE.12503A-CV-3082-WS-36209	12503A-CV-36209-Rev-P1	NETWORK DRAWING FOR LIS DHANIYARA	A3	P1
37	TCE.12503A-CV-3082-WS-36210	12503A-CV-36210-Rev-P0	NETWORK DRAWING FOR LIS BINOL	A3	P0
38	TCE.12503A-CV-3082-WS-36211	12503A-CV-36201-Rev-P0	NETWORK DRAWING FOR LIS PALHOTA	A3	P0
39	TCE.12503A-CV-3082-WS-36212	12503A-CV-36212-Rev-P0	NETWORK DRAWING FOR LIS KUTHAIN	A3	P0
40	TCE.12503A-CV-3082-WS-36213	12503A-CV-36213-Rev-P0	NETWORK DRAWING FOR LIS KHAGRON	A3	P0
41	TCE.12503A-CV -3082-WS-36351	12503A-CV-36351-Rev-P0	PROPOSED L-SECTION - LIS BARAGAON-I & II	A3	P0
42	TCE.12503A-CV -3082-WS-36352	12503A-CV-36352-Rev-P0	PROPOSED L-SECTION - LIS DHARWAHAN-II	A3	P0

Drawing List - Mandi District - 02 (Package-8)					
S.NO.	DRAWING. NO.	SOFT COPY FILE NAME	TITLE	SIZE	ISSUE
43	TCE.12503A-CV -3082-WS-36353	12503A-CV-36353-Rev-P0	PROPOSED L-SECTION - LIS SAWLA	A3	P0
44	TCE.12503A-CV -3082-WS-36354	12503A-CV-36354-Rev-P0	PROPOSED L-SECTION - LIS BAGGA CHALOG	A3	P0
45	TCE.12503A-CV -3082-WS-36355	12503A-CV-36355-Rev-P0	PROPOSED L-SECTION - LIS LATOGALI-I	A3	P0
46	TCE.12503A-CV -3082-WS-36357	12503A-CV-36357-Rev-P1	PROPOSED L-SECTION - LIS DARVEHAD	A3	P1
47	TCE.12503A-CV -3082-WS-36358	12503A-CV-36358-Rev-P0	PROPOSED L-SECTION - LIS MANJHAGAN CHUDARA	A3	P0
48	TCE.12503A-CV -3082-WS-36359	12503A-CV-36359-Rev-P1	PROPOSED L-SECTION - LIS DHANIYARA	A3	P1
49	TCE.12503A-CV -3082-WS-36360	12503A-CV-36360-Rev-P0	PROPOSED L-SECTION - LIS BINOL	A3	P0
50	TCE.12503A-CV -3082-WS-36361	12503A-CV-36361-Rev-P0	PROPOSED L-SECTION - LIS PALHOTA	A3	P0
51	TCE.12503A-CV -3082-WS-36362	12503A-CV-36362-Rev-P0	PROPOSED L-SECTION - LIS KUTHAIN	A3	P0
52	TCE.12503A-CV -3082-WS-36363	12503A-CV-36363-Rev-P0	PROPOSED L-SECTION - LIS KHAGRON	A3	P0
53	TCE.12503A-CV-3082-WS-30581	12503A-CV-30581-Rev-P0	TYPICAL SLUICE VALVE CHAMBER DETAILS	A3	P0
54	TCE.12503A-CV-3082-WS-30582	12503A-CV-30582-Rev-P0	TYPICAL DETAILS FOR THRUST BLOCK	A3	P0
55	TCE.12503A-CV-3082-RC-30583	12503A-CV-30583-Rev-P0	TYPICAL DETAILS FOR SADDLE SUPPORT	A3	P0
56	TCE.12503A-CV-3082-GA-30584	12503A-CV-30584-Rev-P0	TYPICAL GLSR DETAILS (100000, 150000, 200000, 250000 LITRE CAPACITY)	A3	P0
57	TCE.12503A-CV-3082-WS-30585	12503A-CV-30585-Rev-P0	TYPICAL DETAILS FOR SCOUR VALVE AND AIR VALVE CHAMBER	A3	P0
58	TCE.12503A-CV-3082-GA-30586	12503A-CV-30586-Rev-P1	TYPICAL DETAILS FOR PUMP HOUSE	A3	P1
59	TCE.12503A-CV-3082-GA-30587	12503A-CV-30587-Rev-P1	GENERAL ARRANGEMENT FOR INTAKE WELL	A3	P1
60	TCE.12503A-CV-3082-WS-30588	12503A-CV-30588-Rev-P0	TYPICAL DETAILS FOR BEDDING AND TRENCH	A3	P0
61	TCE.12503A-CV-3082-GA-30589	12503A-CV-30589-Rev-P0	GENERAL ARRANGEMENT FOR CHECK DAM	A3	P0
62	TCE.12503A-CV-3082-GA-30590	12503A-CV-30590-Rev-P0	TYPICAL DETAILS FOR DESILTING TANK	A3	P0
63	TCE.12503A-CV-3082-GA-30591	12503A-CV-30591-Rev-P0	TYPICAL DETAILS OF ELSR	A3	P0
64	TCE.12503A-CV-3082-GA-30592	12503A-CV-30592-Rev-P0	TYPICAL DETAILS FOR PERCOLATION WELL	A3	P0
65	TCE.12503A-EL-4002-AU-40001	12503A-CV-40001-Rev-P0	TYPICAL SLD FOR LIS PUMPING STATION HAVING LT MOTOR LOADS WITH MAX CONTRACT DEMAND ≤50 kVA	A3	P0
66	TCE.12503A-EL-4002-AU-40002	12503A-CV-40002-Rev-P0	TYPICAL SLD FOR LIS PUMPING STATION HAVING LT MOTOR LOADS WITH MAX CONTRACT DEMAND >50 kVA	A3	P0
67	TCE.12503A-EL-4002-AU-40003	12503A-CV-40003-Rev-P0	TYPICAL SLD FOR LIS PUMPING STATION HAVING HT MOTOR LOADS WITH MAX CONTRACT DEMAND >50 kVA	A3	P0
68	TCE.12503A-EL-4002-AU-40004	12503A-CV-40004-Rev-P0	GENERAL NOTES & LEGENDS FOR TYPICAL SLD for LIS PUMPING STATION HAVING LT/ HT MOTOR LOADS	A3	P0

ABBREVIATIONS							
Flow Diagram Drawings		Typical Standard drawings		L-Section drawings		Topographical Survey Drawings	
Q	Discharge (Flow)	HT	High Tension	J	Pipe Junction	GI	Galvanised Iron
H	Pump head	LT	Low Tension	CT	Collection Tank	TBM	Temporary Bench Mark
GI	Galvanised Iron	ELSR	ELevated service reservoir	MT	Modular Tank	GL	Ground Level
Lat.	Latitude	c/c	centre to centre	MDT	Main Distribution Tank	PH	Pump House
Long	Longitude	M20/ M15	Grade of concrete	MSERW	Mild steel Electric resistance welded pipe	WT	Water Tank
RL	Reduced Level	GLSR	Ground Level service reservoir	GI	Galvanised Iron	N	Northing
RD	Reduced Distance	Typ	Typical	Pmp	Pump	E	Easting
MT	Modular Tank	SLD	Single Line Diagram				
MDT	Main Distribution Tank						
Ha	Hectare						
MSERW	Mild steel Electric resistance welded pipe						



6MM THICK PLASTIC ENCAPSULATED FOOTREST ON 12MM STEEL BAR AS PER SPECIFICATION

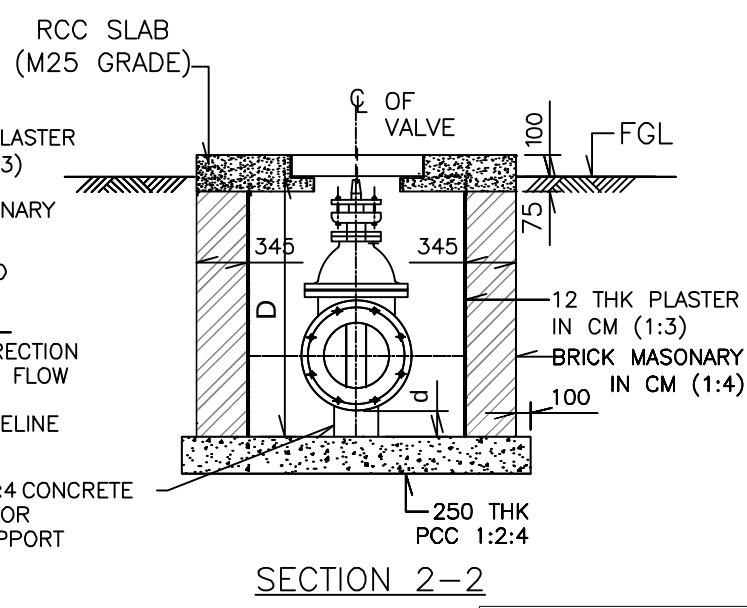
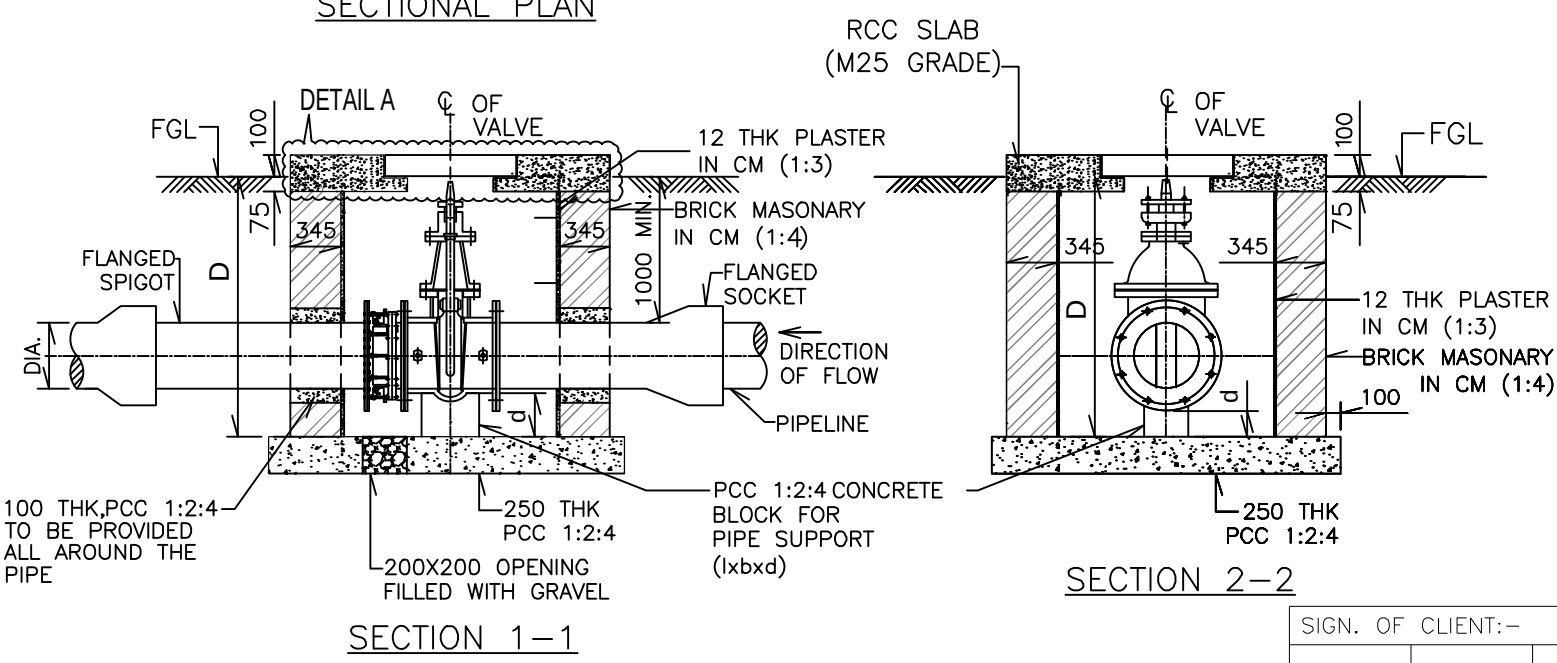
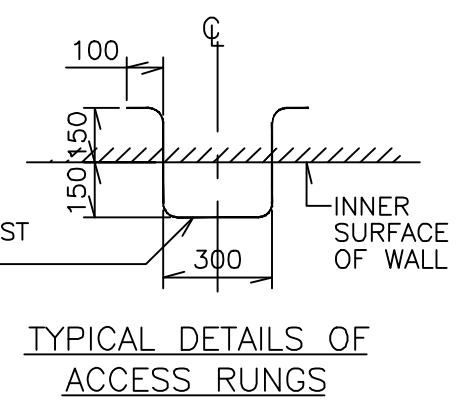


TABLE:

DIA. OF PIPE	CHAMBER SIZE			PEDESTAL		
	L	B	D	l	b	d (Min)
300	1200	1200	1600	150	250	100
200	1200	1200	1600	100	200	100
150	900	900	1600	100	150	100

LEGEND

- TYP --- TYPICAL
- DIA --- DIAMETER
- UN --- UNLESS NOTED
- MS --- MILD STEEL
- DI --- DUCTILE IRON
- THK --- THICK
- CL --- CENTER LINE
- IL --- INVERT LEVEL
- PCC --- PLAIN CEMENT CONCRETE
- RC --- REINFORCED CONCRETE
- EQ. --- EQUAL

NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRE AND LEVELS IN METRE UNLESS NOTED.
- GRADE OF PCC SHALL BE M15 WITH MAXIMUM 40mm DOWN GRADED AGGREGATES CONFORMING TO SPECIFICATION.
- REINFORCEMENT SHALL BE HIGH YIELD STRENGTH DEFORMED BARS TO GRADE Fe500 CONFORMING TO IS:1786 (LATEST ISSUE).
- CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS.
RC COVER-20mm TOP & BOTTOM
- SAFE BEARING CAPACITY OF SOIL IS CONSIDERED AS 15 T/Sqm. AT FOUNDING LEVEL.
- THE ARRANGEMENT RELATED TO VALVE AND FITTINGS SHOWN IN THE DRAWING ARE INDICATIVE ONLY. BEFORE CONSTRUCTION, ARRANGEMENT OF VALVE AND FITTINGS SHALL BE PROVIDED BY THE CONTRACTOR TO ENGINEER FOR APPROVAL.
- BRICK MASONRY SHALL BE IN CM (1:4).
- BRICKS SHALL BE OF MINIMUM 75 Kg/cm² COMPRESSIVE STRENGTH.
- THE TYPICAL DETAILS OF CHAMBER ARE APPLICABLE FOR 150mm TO 600mm DIA PIPELINE.
- VALVE CHAMBERS SHALL BE CONSTRUCTED IN RCC IN CASE HIGH WATER TABLE AND SPACE CONSTRAINT.
- THE FOOTREST SHALL BE PROVIDED FROM TOP COVER TO PIPE BARREL TOP AND THEN PIPE BARREL TOP UPTO 300mm ABOVE CHAMBER BOTTOM.
- VALVE SPINDLE EXTENSIONS TO BE FITTED TO BRING TOP OF VALVE SPINDLE TO WITHIN 100mm TO UNDERSIDE OF RC COVER.

SIGN.										
PO										
	SM	MJ	DVP					NMS	NMS	15-04-2022
ISSUE	DRN	DSN	CHD	CV	EL	IC	ME		PE/PM	APPD

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SIGN. OF CLIENT:—

JE	AE	EE	SE
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PURPOSE : FOR TENDER ONLY

DO NOT SCALE

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FILE NAME 12503A-CV-30581-Rev-00



DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TYPICAL SLUICE VALVE CHAMBER DETAILS

TATA CONSULTING ENGINEERS LIMITED

MUMBAI

SCALE : NTS	DWG NO. TCE.12503A-CV-3082-WS-30581	ISSUE PO
DC & DISC: DEL-CV		

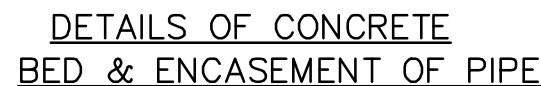


TABLE										
INTERNAL DIAMETER OF PIPE (mm)	ANGLE OF BEND	DESIGN PRESSURE (kg/m ²)	SOIL COVER OVER PIPE Ds (mm)	H (m)	L1 (m)	L2 (m)	L3 (m)	L (m)	B1 (m)	B2 (m)
100	90°	4.35	1000	0.70	0.75	0.40	0.35	0.77	0.70	0.35
100	45°	4.35	1000	0.60	0.55	0.30	0.25	0.57	0.60	0.30
100	22.5°	4.35	1000	0.45	0.45	0.25	0.20	0.46	0.50	0.25
100	90°	4.85	1000	0.70	0.80	0.45	0.35	0.82	0.70	0.35
100	45°	4.85	1000	0.60	0.55	0.30	0.25	0.57	0.60	0.30
100	22.5°	4.85	1000	0.50	0.45	0.25	0.20	0.47	0.50	0.25
100	90°	5.93	1000	0.80	0.75	0.40	0.35	0.78	0.80	0.40
100	45°	5.93	1000	0.65	0.65	0.35	0.30	0.67	0.70	0.35
100	22.5°	5.93	1000	0.50	0.55	0.30	0.25	0.56	0.50	0.25
150	90°	3.33	1000	0.85	0.85	0.45	0.40	0.88	0.90	0.45
150	45°	3.33	1000	0.70	0.70	0.40	0.30	0.72	0.70	0.35
150	22.5°	3.33	1000	0.55	0.55	0.30	0.25	0.57	0.50	0.25
250	90°	3.75	1000	1.25	1.25	0.70	0.55	1.29	1.30	0.65
250	45°	3.75	1000	1.00	1.05	0.60	0.45	1.08	1.00	0.50
250	22.5°	3.75	1000	0.80	0.80	0.45	0.35	0.82	0.80	0.40
250	90°	6.03	1000	1.45	1.45	0.80	0.65	1.49	1.50	0.75
250	45°	6.03	1000	1.15	1.25	0.70	0.55	1.28	1.10	0.55
250	22.5°	6.03	1000	0.95	0.90	0.50	0.40	0.93	0.90	0.45
350	90°	5.93	1000	1.80	1.80	1.00	0.80	1.86	1.80	0.90
350	45°	5.93	1000	1.45	1.55	0.85	0.70	1.59	1.50	0.75
350	22.5°	5.93	1000	1.20	1.15	0.65	0.50	1.19	1.20	0.60
500	90°	4.68	1000	2.15	2.05	1.15	0.90	2.12	2.20	1.10
500	45°	4.68	1000	1.70	1.80	1.00	0.80	1.85	1.70	0.85
500	22.5°	4.68	1000	1.40	1.35	0.75	0.60	1.39	1.40	0.70

DIA	_____	DIAMETER
B	_____	BREADTH
L	_____	LENGTH
H	_____	HEIGHT
mm	_____	MILLIMETERS

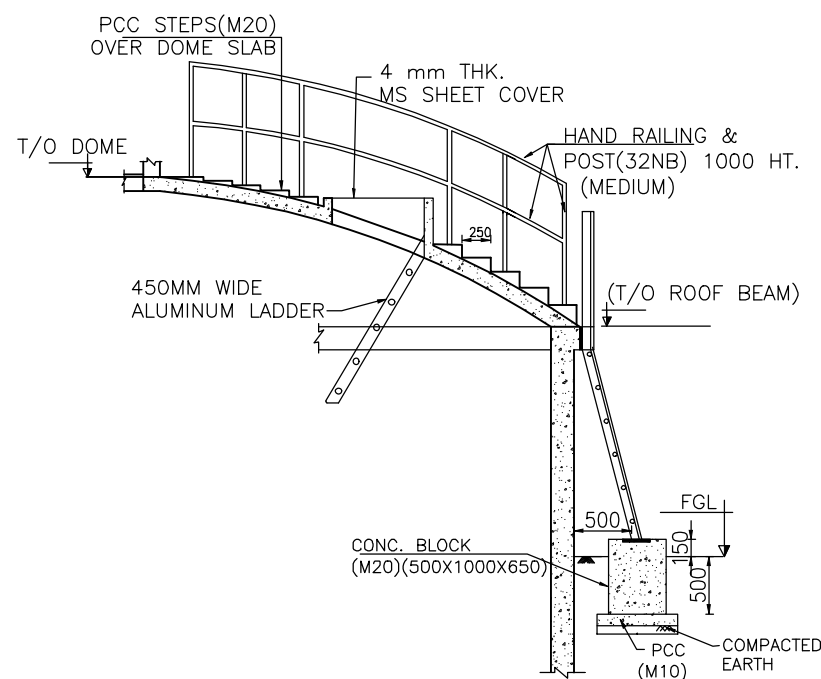
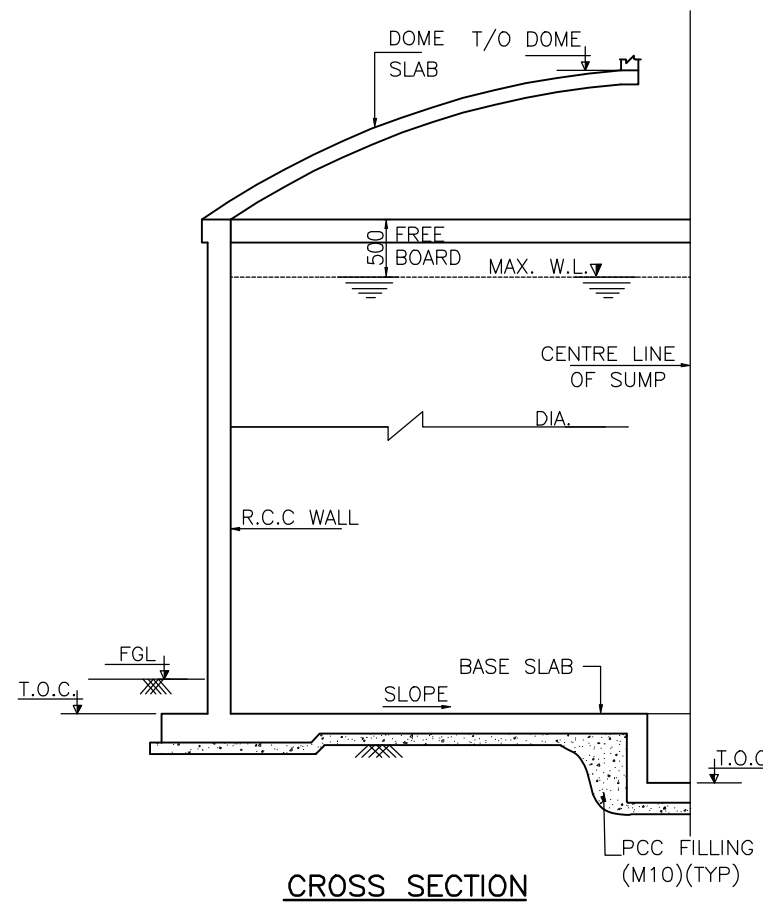
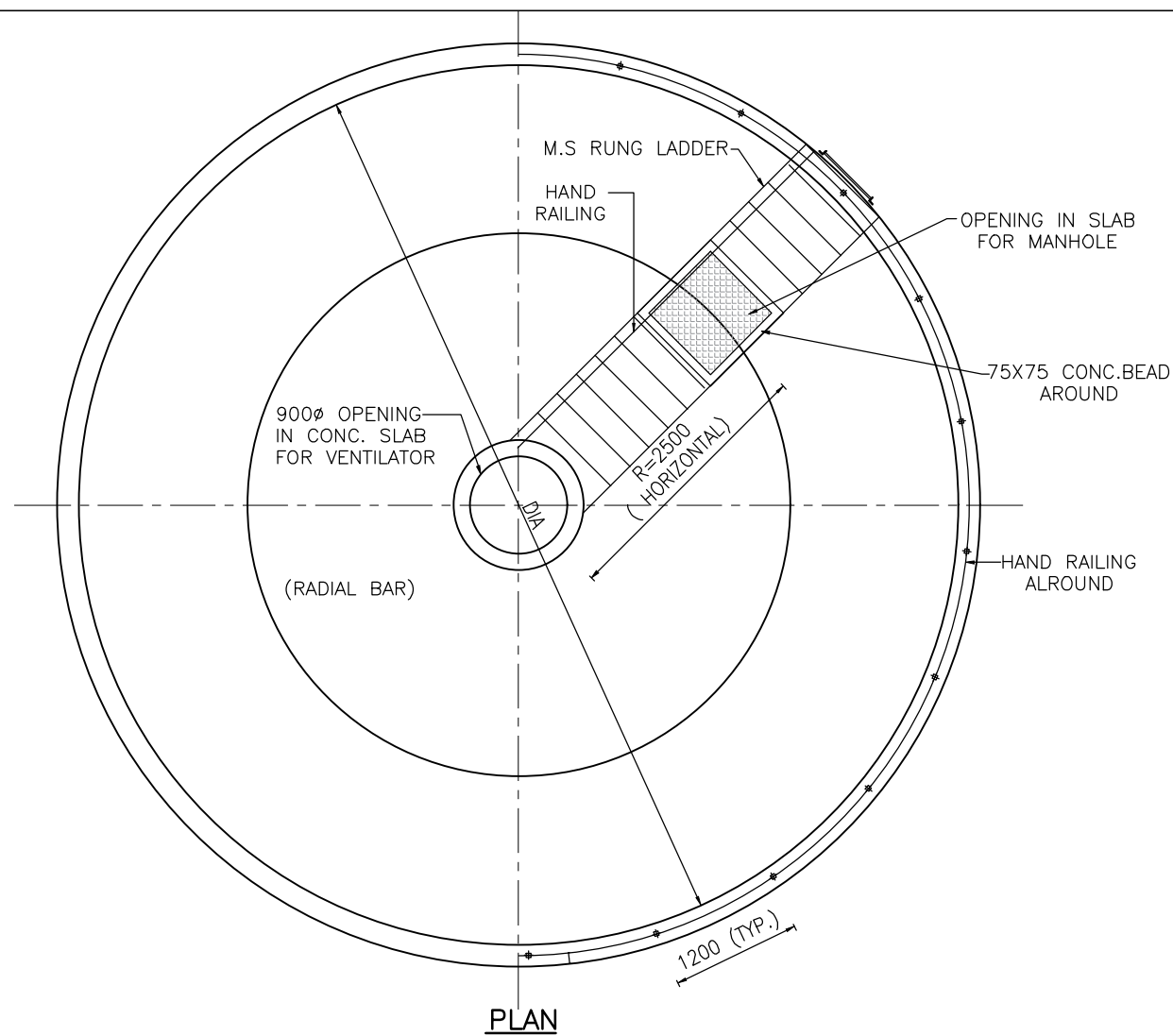
1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS IN METRES UNLESS NOTED.
2. INVERT LEVEL OF PIPES SHALL BE AS PER RELEVANT NETWORK DRAWINGS.
3. NO CONCRETE SHALL BE PLACED AROUND JOINTS OF PIPELINE, UNTIL THAT LENGTH OF PIPE HAS PASSED SECTIONAL HYDRAULIC TEST.
4. STEEL FOR REINFORCEMENT SHALL BE HIGH YIELD STRENGTH DEFORMED BARS OF GRADE Fe 500
5. REINFORCEMENT LAP LENGTHS SHALL BE 50xDIAMETER OF SMALLER BAR.
6. CONCRETE TO BE USED SHALL BE OF GRADE M20 WITH 20mm DOWN GRADED AGGREGATES CONFORMING TO SPECIFICATIONS.
7. CLEAR COVER TO REINFORCEMENT
BOTTOM AND SIDES – 30mm
8. DURING CONSTRUCTION, IF GROUND WATER TABLE IS MET WITH, IT SHALL BE BROUGHT TO THE NOTICE OF ENGINEER FOR MAKING NECESSARY CHANGES IN THE DESIGN.
9. SOIL BENEATH AND BY THE SIDE OF THE THRUST BLOCK, WHICH ULTIMATELY BEARS THRUST THROUGH CONCRETE MEDIUM, MUST REMAIN UNDISTURBED. IN CASE ANY EXTRA EXCAVATION IS DONE IN TRENCHES, WHERE THE THRUST BLOCK IS TO BE PROVIDED, THE SAME SHALL BE FILLED WITH 1:4:8 CONCRETE
10. PIPES AND SPECIALS SHALL BE SUITABLY SUPPORTED WHILE CONCRETING THE THRUST BLOCK AS DIRECTED BY ENGINEER.
11. TESTING OF MAINS SHALL BE DONE AFTER CASTING OF THRUST BLOCKS AND COMPACTION OF BACKFILLING.
12. AT THE TIME OF TESTING, COMPACTED SOIL SHALL BE PLACED ON THE THRUST BLOCK UP TO THE ROAD LEVEL.
13. THRUST BLOCKS NEED TO BE PLACED AS PER SITE CONDITION

	SIGN.												
	INITIALS												
	REVISIONS												
PO	SIGN.												
	INITIALS	SM	MJ	DVP							NMS	NMS	
	REVISIONS												
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE
					CLEARED								dd-mm-yy

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FIELD MUST GET DESIGN OFFICE TO CLEAR 'HOLDS'
IN TIME BEFORE PROCEEDING WITH ANY CONSTRUCTION,
FABRICATION WORK RELATED TO 'HOLDS'.

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FILE NAME	125034-CV-30582-Rev-P0			

	DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09) IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT		
TYPICAL DETAILS OF THRUST BLOCK			
	TATA CONSULTING ENGINEERS LIMITED MUMBAI		
SCALE : NTS DC & DISC: DEL-CV	DWG NO. TCE.12503A-CV-3082-WS-30582		ISSUE PO



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	REVISIONS												
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE
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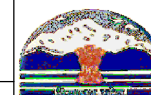
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DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)
IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TYPICAL GLSR DETAILS
(1,00,000,1,50,000, 2,00,000, 2,50,000 LITRE CAPACITY)



TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE	: NTS
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DWG NO.	TCE.12503A-CV-3082-GA-30584
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ISSUE P0



SEC 1-1

DIA----- DIAMETER
H----- STAGE HEIGHT
THK----- THICKNESS
FGL-----FINISHED GROUND LEVEL
RB----- ROOF BEAM

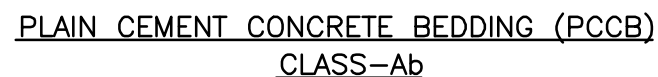
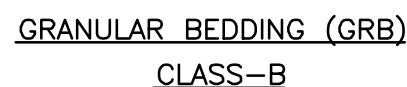
1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS IN METRES UNLESS NOTED.
2. DO NOT SCALE THE DRAWING. FOLLOW FIGURED DIMENSIONS ONLY.
3. GRADE OF CONCRETE SHALL BE M30 WITH MAXIMUM 20mm DOWNGRADED AGGREGATES CONFORMING TO IS 456.
4. STEEL FOR REINFORCEMENT SHALL BE HIGH YIELD STRENGTH DEFORMED BARS OF GRADE FE-500 CONFORMING TO IS:1786.
5. SAFE BEARING CAPACITY OF SOIL IS TAKEN AS 10T/Sq.m. AT FOUNDING LEVEL AND SAME IS TO BE CONFIRMED AT SITE BEFORE EXECUTION.
6. PLAIN CEMENT CONCRETE UNDER FOUNDATION SHALL BE OF GRADE M10 CONFORMING TO IS 456.
7. IF ANY LOOSE SOIL IS ENCOUNTERED AT FOUNDING LEVEL DURING CONSTRUCTION, IT SHOULD BE BROUGHT TO THE NOTICE OF THE ENGINEER.
8. IF GROUND WATER TABLE IS ENCOUNTERED DURING CONSTRUCTION, IT SHOULD BE BROUGHT TO THE NOTICE OF THE ENGINEER FOR MAKING APPROPRIATE CHANGES IN THE DESIGN.
9. THE SPACING OF CONSTRUCTION JOINT SHALL NOT BE MORE THAN 1.20M.

1 'P' (PRELIMINARY) ISSUES ARE NOT TO BE USED FOR
2 CONSTRUCTION / FABRICATION BUT ARE ISSUED FOR
3 LIMITED PURPOSES ONLY AS INDICATED IN THE SMALL
4 BLOCK ABOVE THIS BLOCK.

5
6 CONSTRUCTION / FABRICATION WORK IS PERMITTED ON
7 'R' (RELEASED) ISSUES ONLY.

8
9 INFORMATION CONTAINED WITHIN 'HOLD' IS NOT
10 RELEASED FOR CONSTRUCTION / FABRICATION
11 UNLESS MUST GET DESIGN OFFICE TO CLEAR. 'HOLDS'
12 IN TIME BEFORE PROCEEDING WITH ANY CONSTRUCTION/
13 FABRICATION WORK RELATED TO 'HOLDS'.

	DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09) IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT		
GENERAL ARRANGEMENT OF INTAKE WELL			
	TATA CONSULTING ENGINEERS LIMITED MUMBAI		
SCALE : NTS DC & DISC: DEL-CV	DWG NO. TCE.12503A-CV-3082-GA-30587		ISSUE P1

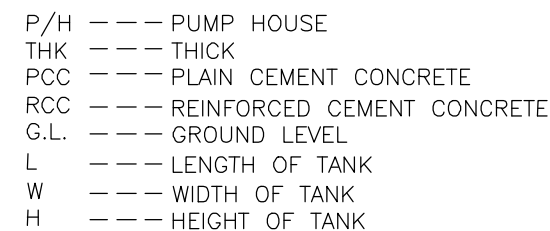


- | | |
|------|---------------------------|
| GL | GROUND LEVEL |
| C.M. | CEMENT MORTAR |
| TYP | TYPICAL |
| MAX | MAXIMUM |
| DIA | DIAMETER |
| THK | THICK |
| MS | MILD STEEL |
| Bc | OUTER DIAMETER OF PIPE |
| d | INTERNAL DIAMETER OF PIPE |

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED.
2. INTERNAL DIAMETER OF PIPE = D
3. OUTER DIAMETER OF PIPE = Bc.
4. BACKFILLING 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 OF THE PIPE
5. BACKFILLING SHALL BE DONE WITH EXCAVATED MATERIAL BY HAND OR APPROVED MECHANICAL METHODS IN LAYERS NOT EXCEEDING 150 MM THICKNESS AFTER COMPACTING, WETTED AND COMPACTED TO A DENSITY OF NOT LESS THAN 90% OF MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT OF THE SURROUNDING MATERIAL.
6. LAYER A. COMPACTED GRANULAR MATERIAL
7. LAYER B. CAREFULLY COMPACTED BACKFILL
8. LAYER C. BACKFILL MATERIAL COMPACTED TO 90% M.D.D



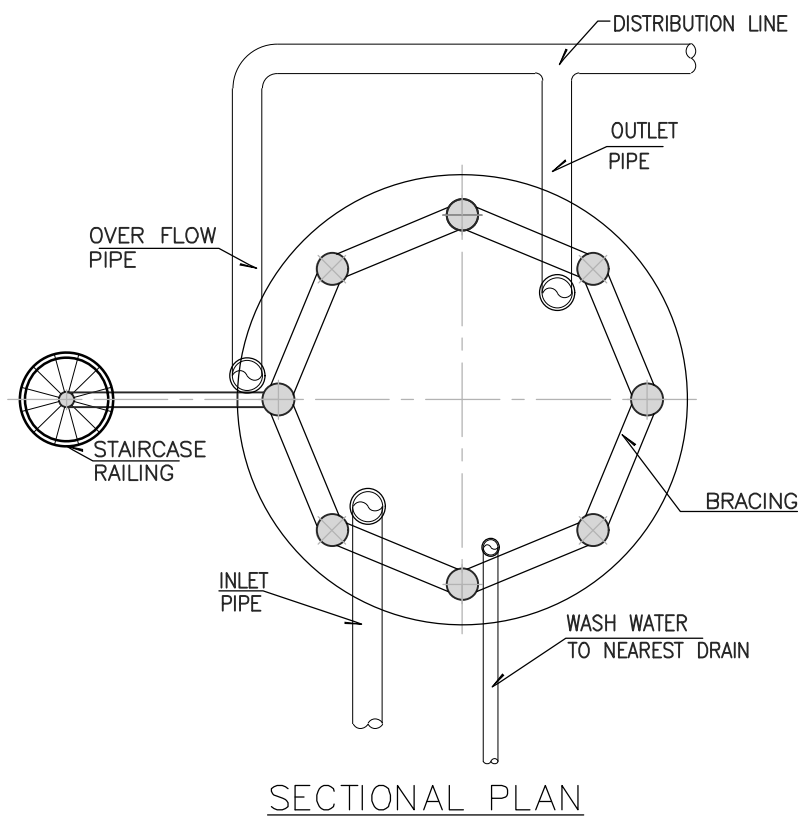
		DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09) IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT	
TYPICAL DETAILS OF BEDDING AND TRENCH			
		TATA CONSULTING ENGINEERS LIMITED MUMBAI	
SCALE : NTS		DWG NO. TCE.12503A-CV-3082-WS-30588	
DC & DISC: DEL-CV		ISSUE P0	



1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS IN METRES UNLESS NOTED.
2. DO NOT SCALE THE DRAWING. FOLLOW FIGURED DIMENSIONS ONLY.
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8. IF GROUND WATER TABLE IS ENCOUNTERED DURING CONSTRUCTION, IT SHOULD BE BROUGHT TO THE NOTICE OF THE ENGINEER FOR MAKING APPROPRIATE CHANGES IN THE DESIGN.
9. THE SPACING OF CONSTRUCTION JOINT SHALL NOT BE MORE THAN 1.20M.

PLAN

															 DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09) IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT																																																				
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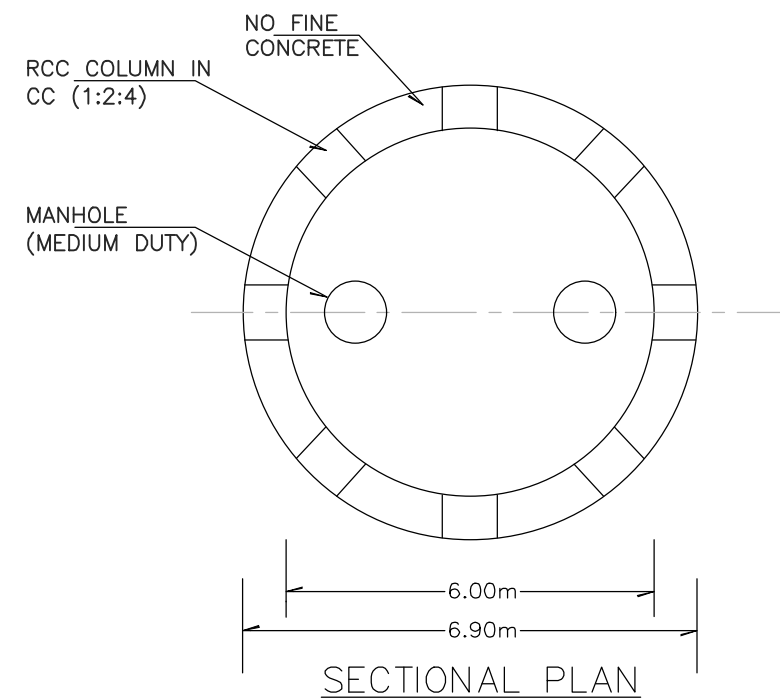
1. ALL DIMENSIONS ARE IN MILLIMETRES. ELEVATIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS INDICATED ARE CLEAR INSIDE DIMENSIONS.

SECTIONAL PLAN

		DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09) IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT	
TYPICAL DETAILS OF ELSR			
		TATA CONSULTING ENGINEERS LIMITED MUMBAI	
SCALE : NTS DC & DISC : DEL-CV	DWG NO. TCE.12503A-CV-3082-GA-30591	ISSUE PO	

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CC-----CEMENT CONCRETE
RCC-----REINFORCED CEMENT CONCRETE
LVL-----LEVEL
GL-----GROUND LEVEL
```

1. ALL DIMENSIONS AND ELEVATIONS ARE IN METRES UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS INDICATED ARE CLEAR INSIDE DIMENSIONS.



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	REVISIONS												
PO	SIGN.												
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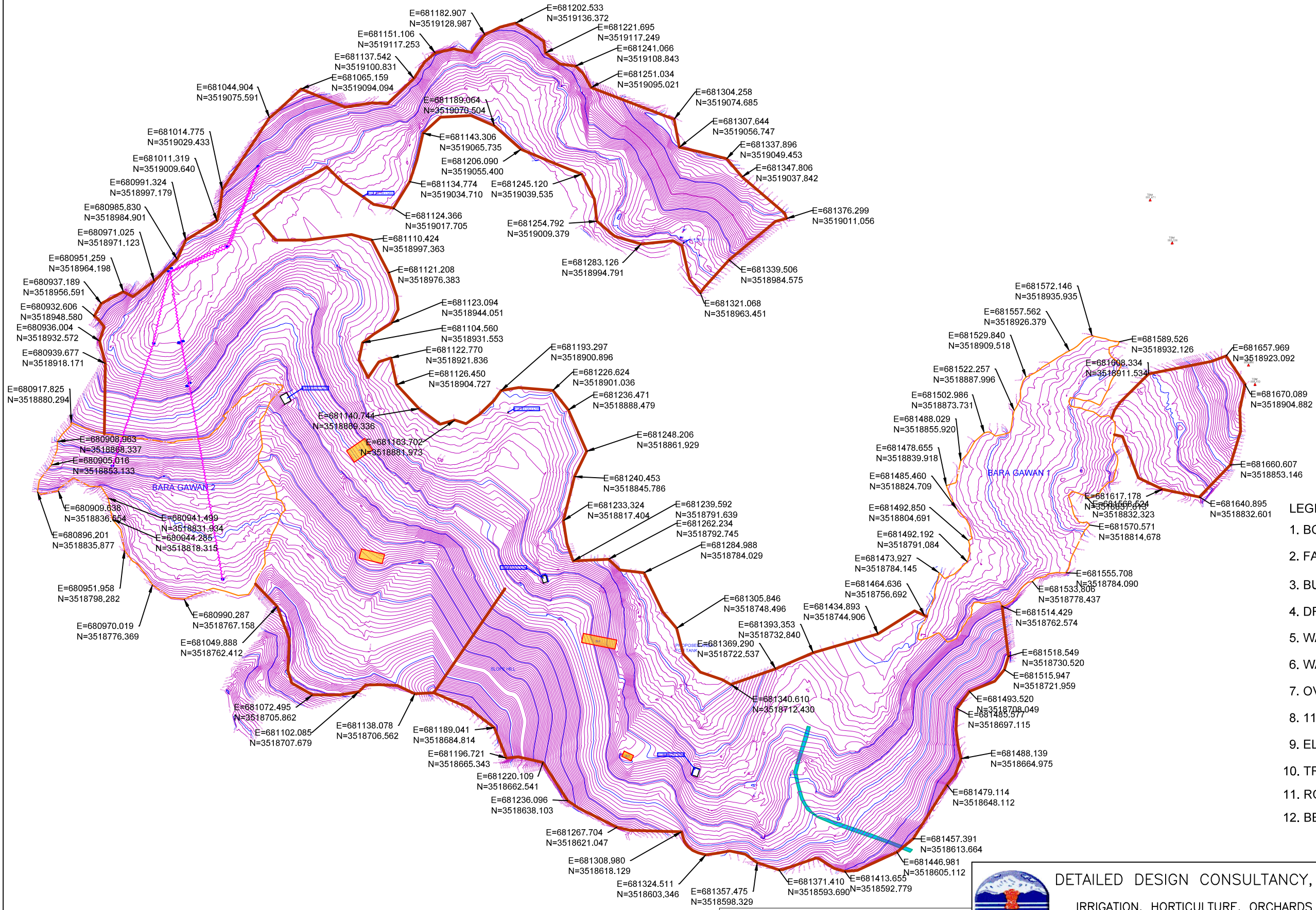
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FILE NAME 125034—CV—30592—Rev—P0			

		DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09) IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT	
TYPICAL DETAILS OF PERCOLATION WELL			
		TATA CONSULTING ENGINEERS LIMITED MUMBAI	
SCALE : NTS		DWG NO. TCE.12503A-CV-3082-GA-30592	
DC & DISC: DEL-CV		ISSUE P0	

SIZE-A3



LEGEND:-

1. BOUNDARY WALL

2. FENCE

3. BUILDING

4. DRAIN

5. WATER OUTLET PIPE

6. WATER INLET PIPE

7. OVERFLOW WATER PIPE

8. 11KV LTW

9. ELEC. POLE

10. TREE

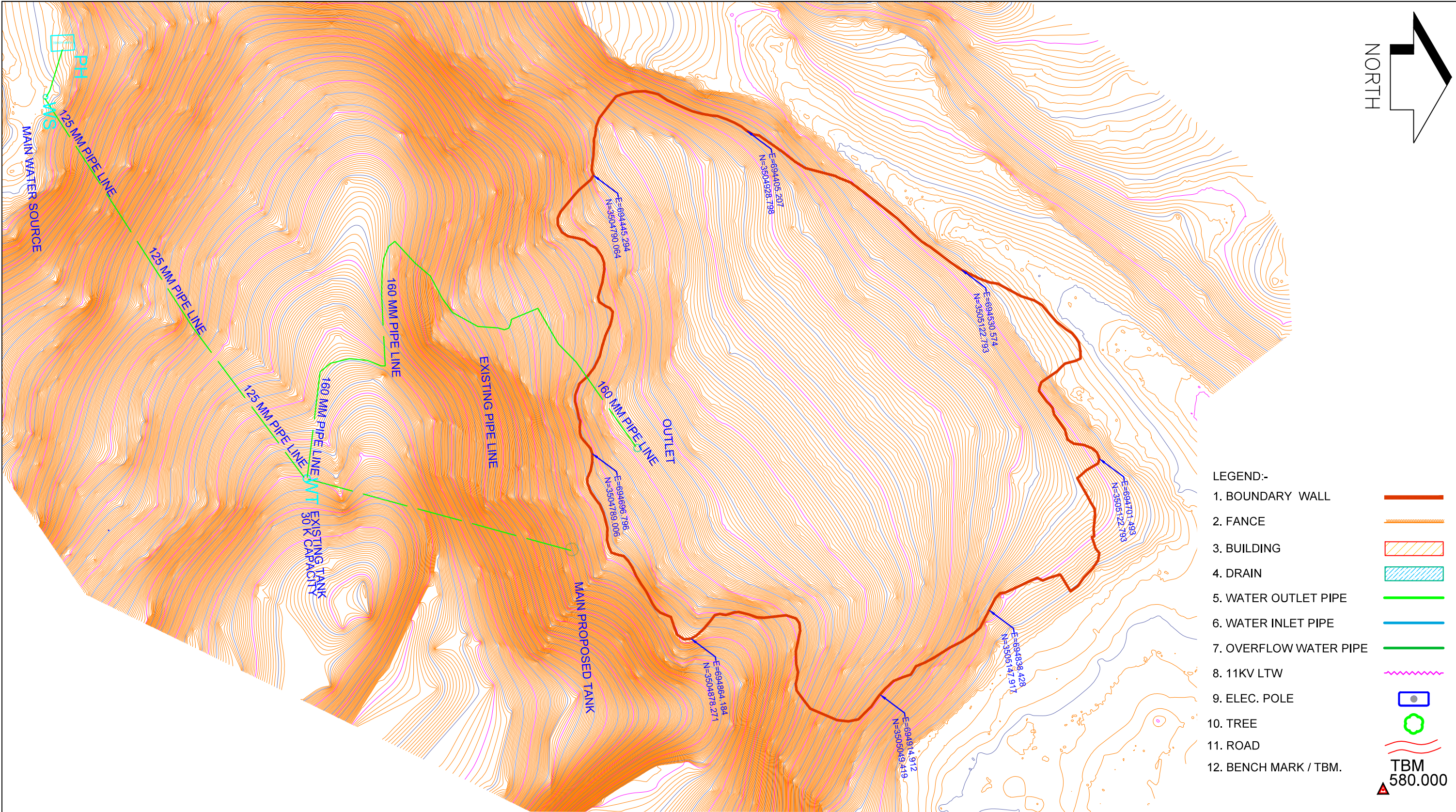
11. ROAD

12. BENCH MARK / TBM.

TBM

800.000

	SIGN.												
	INITIALS												
	REVISIONS												
PO	SIGN.												
	INITIALS	KKS	MXL	DVB						MK	DK	28-06-2022	
	REVISIONS												
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd-mm-yyyy)
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ISSUE												

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FILE NAME: 12503A-CV-36003-Rev-P0			



DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)
IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TOPOGRAPHICAL SURVEY FOR SAWLA CLUSTER
GOHAR BLOCK, MANDI DISTRICT

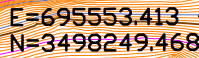


TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS
DWG NO. TCE.12503A-CV-3005-LM-36003
ISSUE PO



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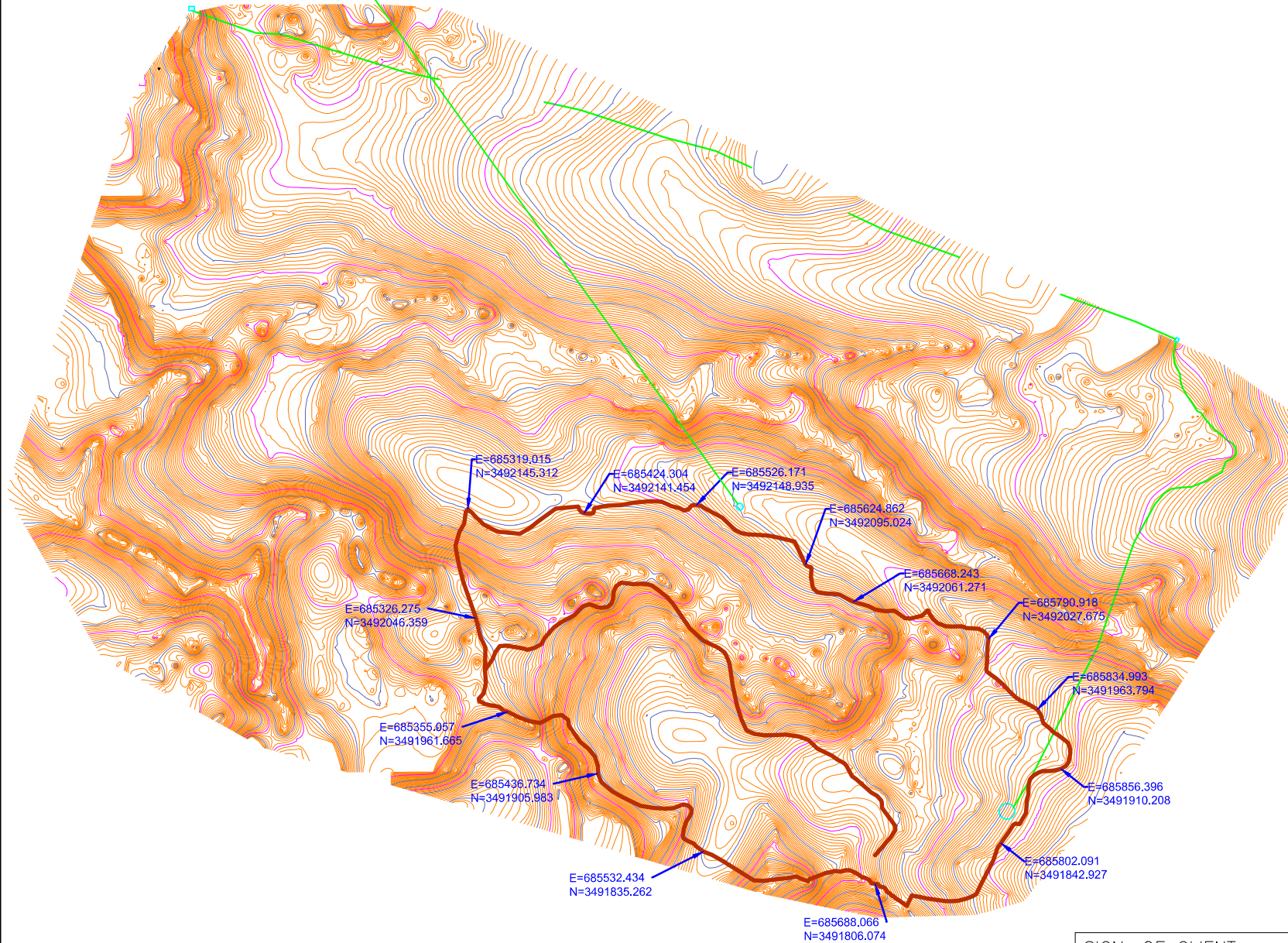
 DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09) IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT		
TOPOGRAPHICAL SURVEY FOR BAGGA CHALOG CLUSTER GOHAR BLOCK, MANDI DISTRICT		
 TATA CONSULTING ENGINEERS LIMITED MUMBAI		
SCALE : NTS	DWG NO. TCE.12503A-CV-3005-LM-36004	ISSUE P0
DC & DISC: DEL-CV		



NORTH

LEGEND:-

1. BOUNDARY WALL
2. FANCE
3. BUILDING
4. DRAIN
5. WATER OUTLET PIPE
6. WATER INLET PIPE
7. OVERFLOW WATER PIPE
8. 11KV LTW
9. ELEC. POLE
10. TREE
11. ROAD
12. BENCH MARK / TBM.



SIGN. OF CLIENT:—

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PURPOSE: FOR TENDER ONLY			
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FILE NAME: 12503A-CV-36007-Rev-P0

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	REVISIONS												
PO	SIGN.												
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	REVISIONS												
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE
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DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)
IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TOPOGRAPHICAL SURVEY FOR DARVEHAD CLUSTER
GOHAR BLOCK, MANDI DISTRICT



TATA CONSULTING ENGINEERS LIMITED
MUMBAI

	SCALE : NTS
0	DC & DISC : DEL-CV

DWG NO.	TCE.12503A-CV-3005-LM-36007
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TBM
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	REVISIONS											
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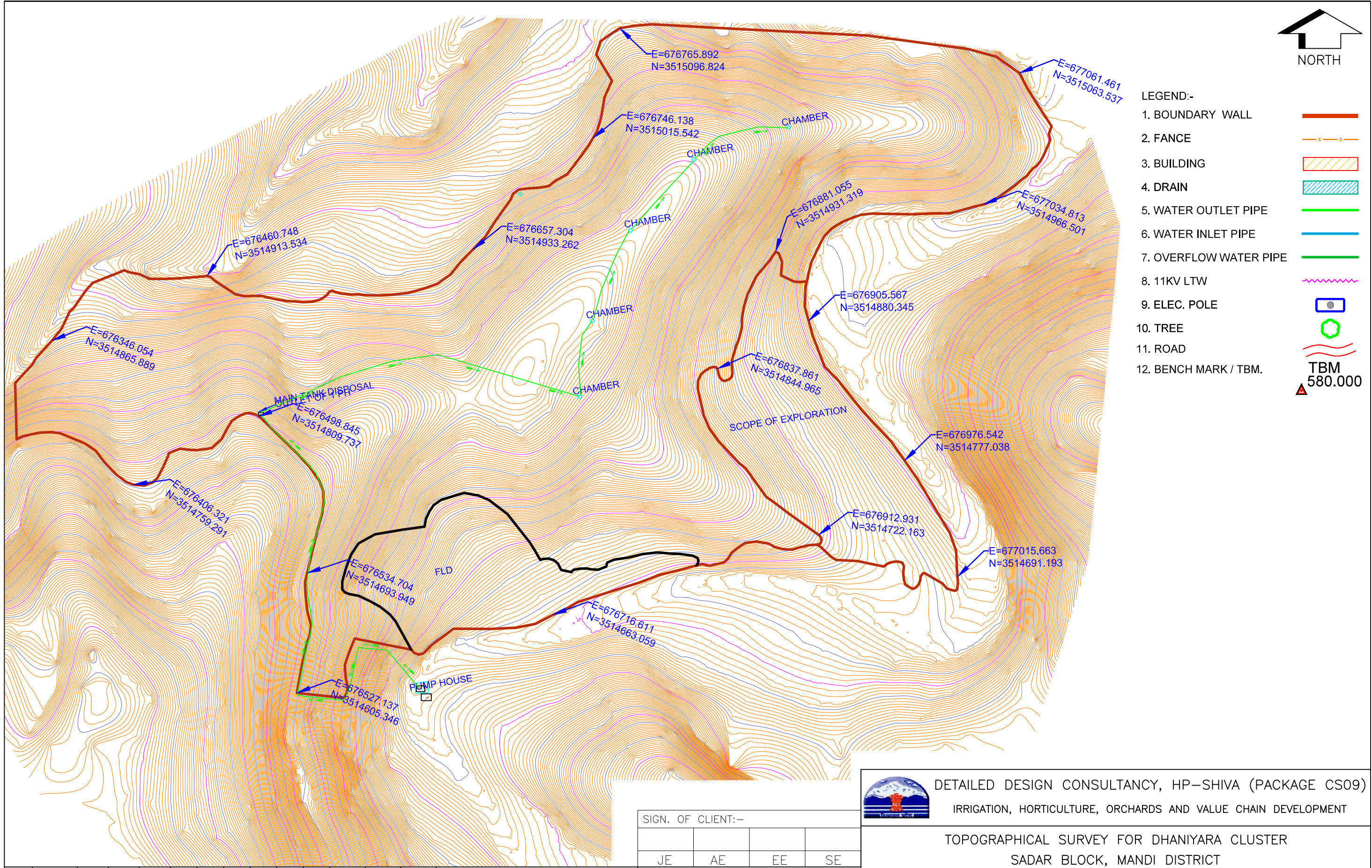
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FILE NAME: 12503A-CV-36009-Rev-P0			

			DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09) IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT		
TOPOGRAPHICAL SURVEY FOR MANJHAGAN CHUDARA CLUSTER GOHAR BLOCK, MANDI DISTRICT					
		TATA CONSULTING ENGINEERS LIMITED MUMBAI			
SCALE : NTS		DWG NO. TCE.12503A-CV-3005-LM-36009			ISSUE P0
DC & DISC: DEL-CV					



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FILE NAME: 12503A-CV-36010-Rev-P0			



DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)
IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TOPOGRAPHICAL SURVEY FOR DHANIYARA CLUSTER
SADAR BLOCK, MANDI DISTRICT



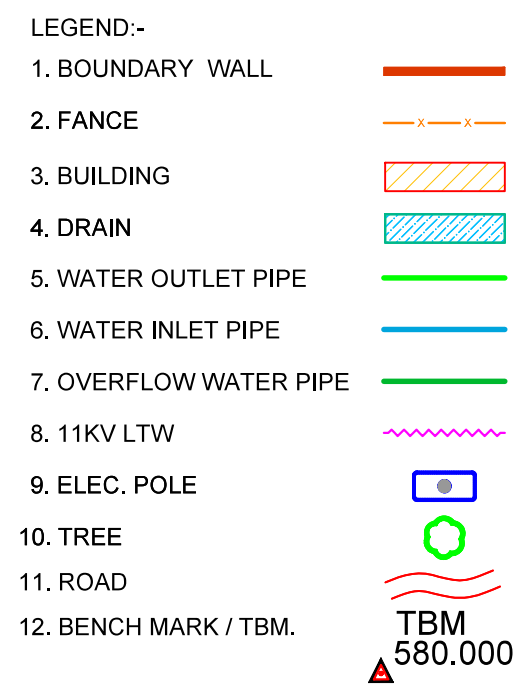
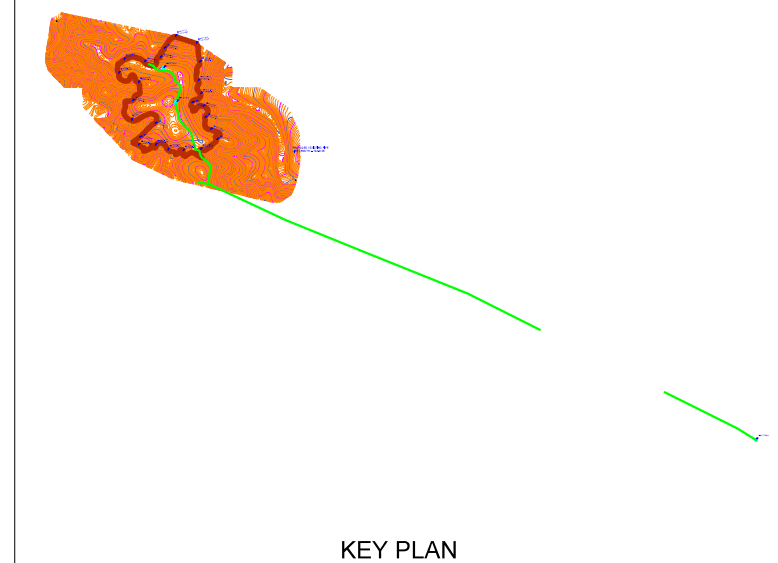
TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS

DWG NO. TCE.12503A-CV-3005-LM-36010

ISSUE P0

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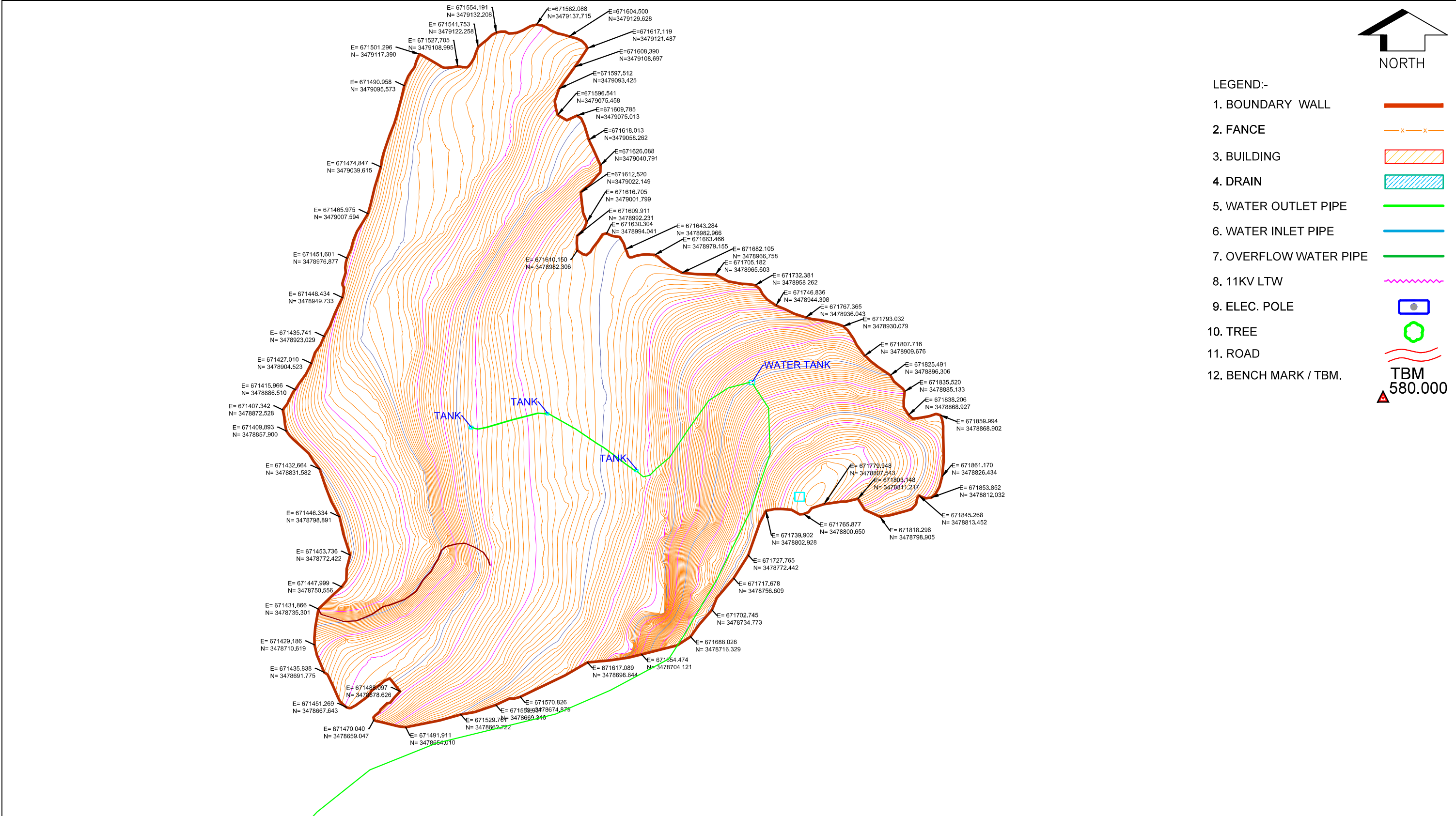


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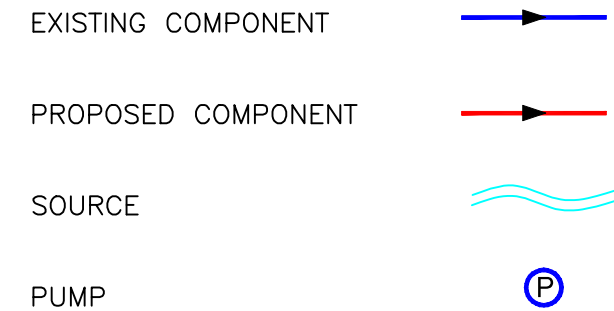
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TOPOGRAPHICAL SURVEY FOR KUTHAIN CLUSTER SUNDERNAGAR BLOCK, MANDI DISTRICT					
		TATA CONSULTING ENGINEERS LIMITED MUMBAI			
SCALE : NTS		DWG NO. TCE.12503A-CV-3005-LM-36013			ISSUE P0
DC & DISC : DEL-CV					



WATER SOURCE PUMP HOUSE												SIGN. OF CLIENT:— <table><tr><td>JE</td><td>AE</td><td>EE</td><td>SE</td></tr></table> PURPOSE: FOR TENDER ONLY DO NOT SCALE Proprietary Notice and Version Control: This document contains confidential information for use only by the Client. It is provided for the sole purpose of permitting the recipient to evaluate the information submitted herewith. In consideration of receipt of this document, the recipient agrees to maintain the confidentiality of the information and to not reproduce or otherwise disclose this information to any person outside the recipient's organization, except that there is no obligation to maintain the confidentiality of any information which was known to the recipient prior to receipt of such information from Tata Consulting Engineers Limited, or becomes publicly known through no fault of recipient, or Tata Consulting Engineers Limited, or is received without obligation of confidentiality from a third party owing no obligation of confidentiality to Tata Consulting Engineers Limited. All information given under this version over rides all and any kind of offers, assumptions, deliverables and contracts submitted verbally (and subsequently communicated in writing) or in writing or otherwise given under any and all previous version/s. FILE NAME: 12503A-CV-36014-Rev-PO				JE	AE	EE	SE	DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09) IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT TOPOGRAPHICAL SURVEY FOR BHANTRAED CLUSTER SUNDERNAGAR BLOCK, MANDI DISTRICT TATA CONSULTING ENGINEERS LIMITED MUMBAI SCALE : NTS DWG NO. TCE.12503A-CV-3005-LM-36014 ISSUE PO																																																																																						
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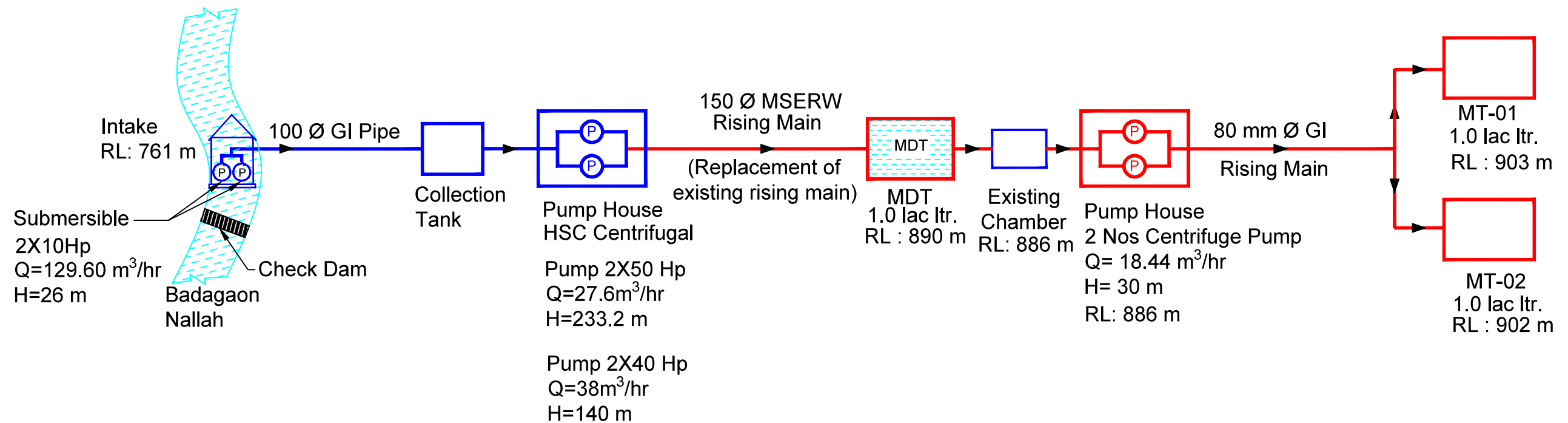


LEGEND:



NOTE:

- ALL PIPE DIAMETERS ARE IN MILLIMETER.
- RL MAY VARY AS PER ACTUAL ROUTE SURVEY.



FLOW DIAGRAM - LIS BARAGAON - I & II CLUSTER : CCA - 14.32 Ha (DRANG BLOCK)

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	INITIALS	SM	ML	DVB					MK	DK
	REVISIONS									
ISSUE	DRN	DSN	CHD	CV	EL	IC	ME		PE/PM	APPD
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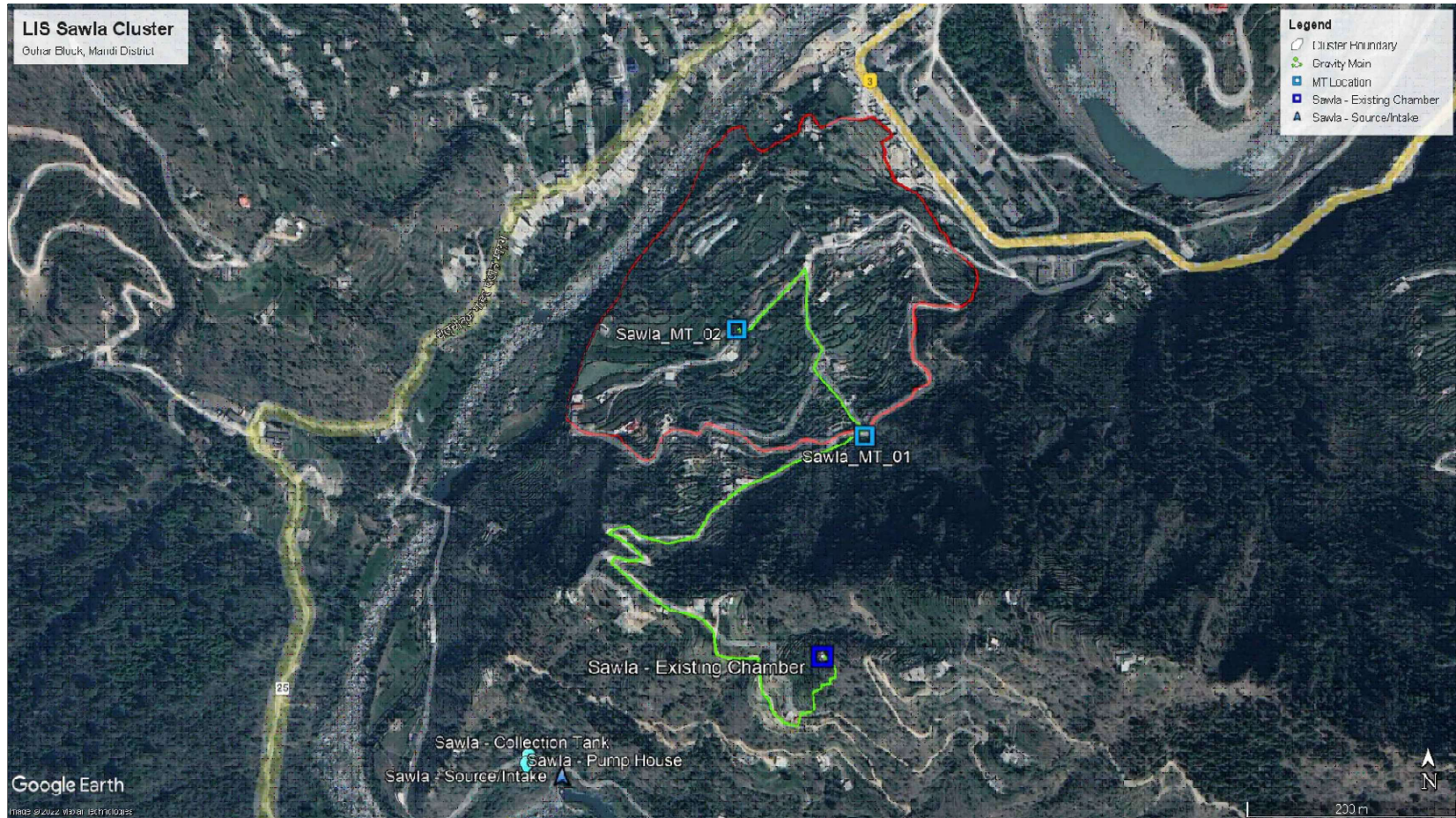
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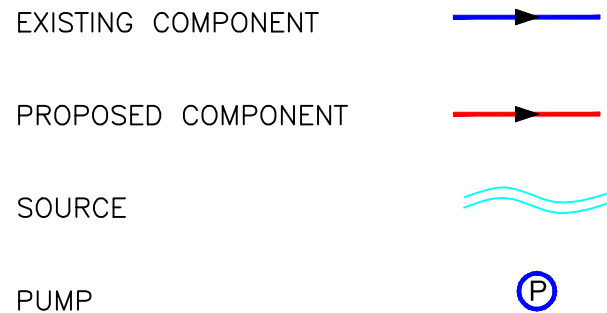
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	IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT		
	FLOW DIAGRAM FOR LIS BARAGAON I & II DRANG BLOCK MANDI DISTRICT		
	TATA CONSULTING ENGINEERS LIMITED MUMBAI		
	SCALE : NTS	DWG NO. TCE.12503A-CV-3082-FD-36151	ISSUE P0
	DC & DISC: DEL-CV		

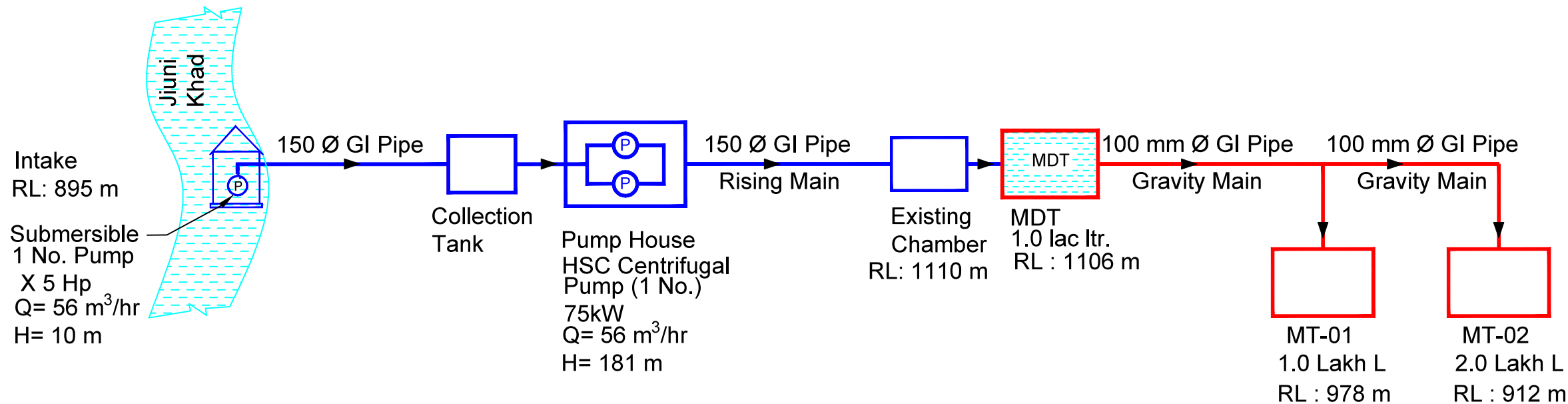


LEGEND:



NOTE:

1. ALL PIPE DIAMETERS ARE IN MILLIMETER.
2. RL MAY VARY AS PER ACTUAL ROUTE SURVEY.



FLOW DIAGRAM - LIS SAWLA CLUSTER : CCA - 17.46 Ha (GOHAR BLOCK)

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	INITIALS	SM	ML	DVB					MK	DK
	REVISIONS									
ISSUE	DRN	DSN	CHD	CV	EL	IC	ME		PE/PM	APPD
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FILE NAME 12503A-CV-36153-Rev-P0			



DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)
IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

FLOW DIAGRAM FOR LIS SAWLA
GOHAR BLOCK MANDI DISTRICT

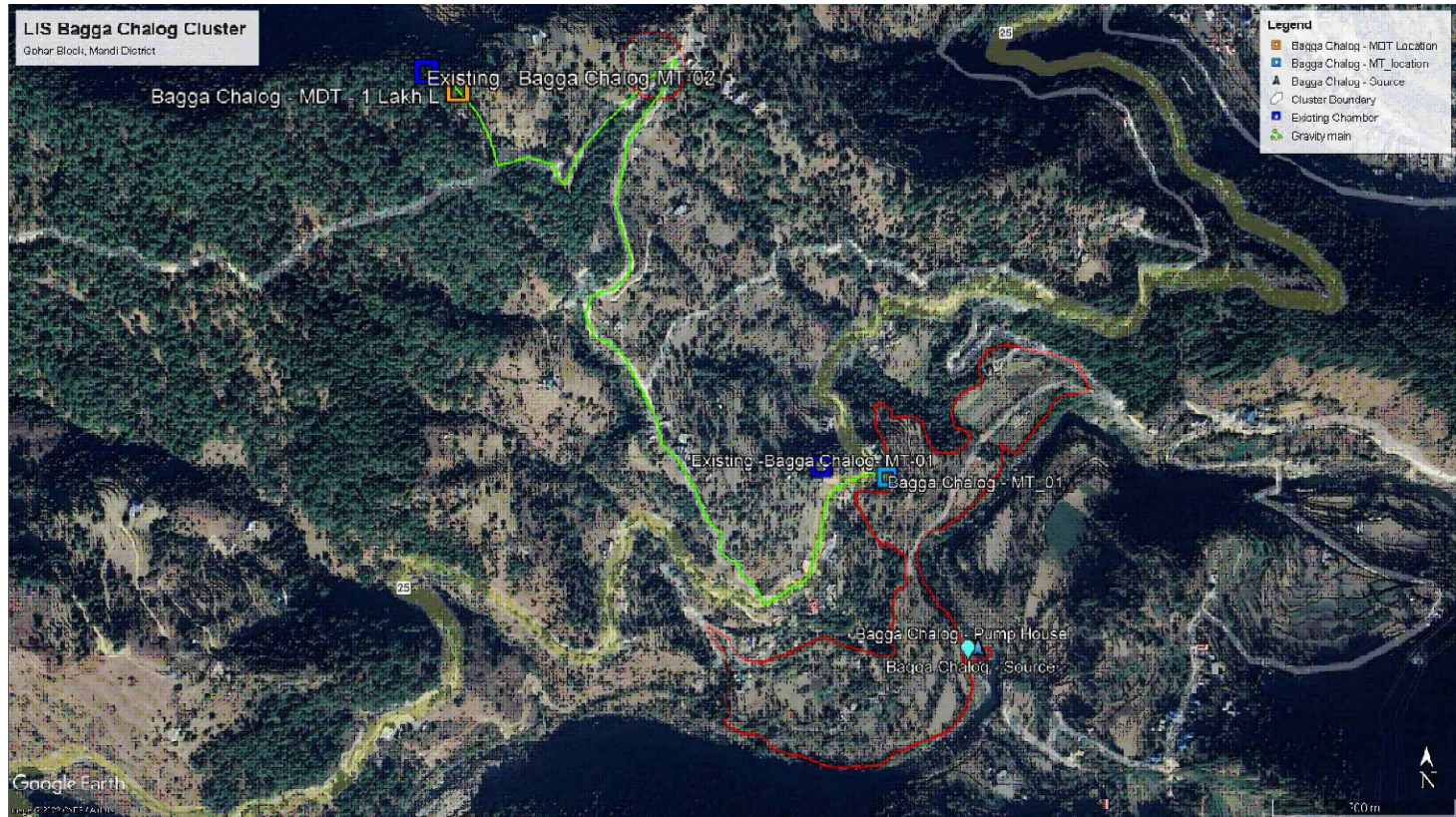


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MUMBAI

SCALE : NTS
DC & DISC: DEL-CV

DWG NO. TCE.12503A-CV-3082-FD-36153

ISSUE P0



LEGEND:

EXISTING COMPONENT



PROPOSED COMPONENT



SOURCE

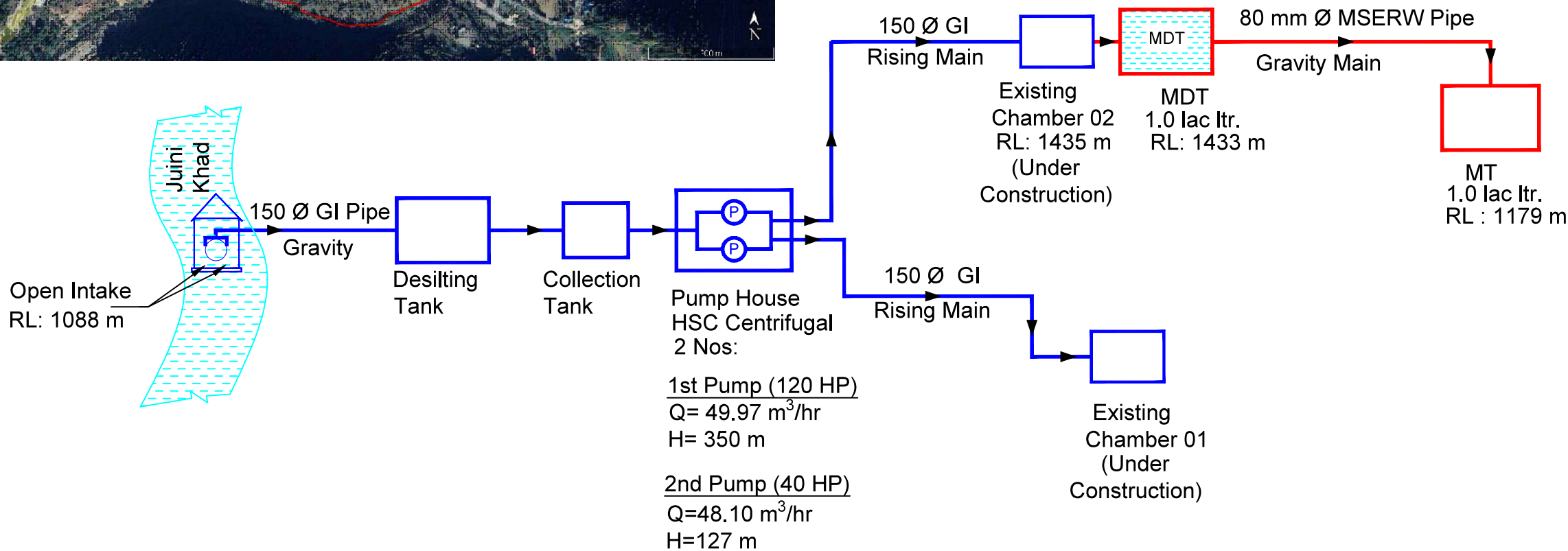


PUMP



NOTE:

1. ALL PIPE DIAMETERS ARE IN MILLIMETER.
2. RL MAY VARY AS PER ACTUAL ROUTE SURVEY.



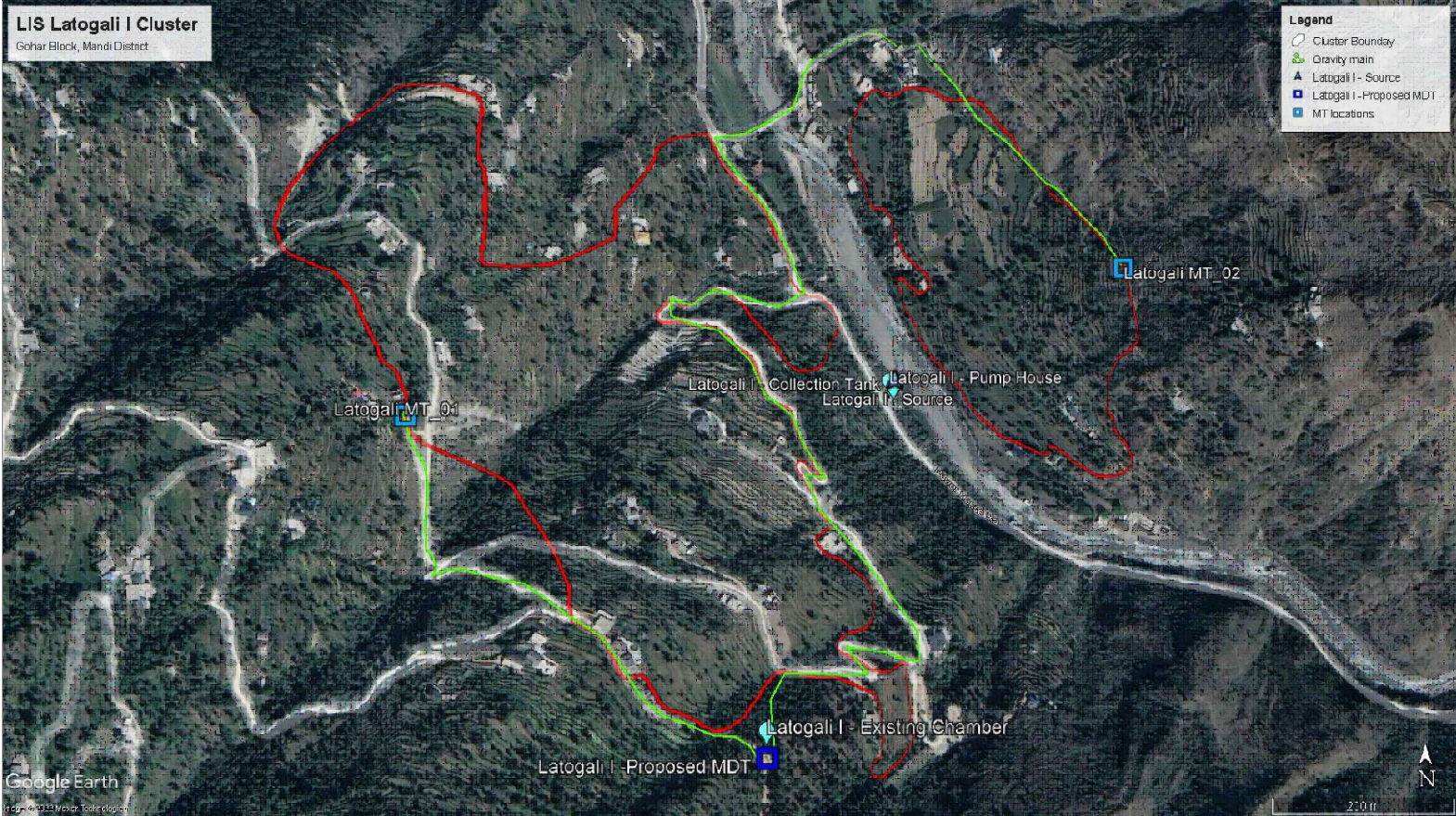
FLOW DIAGRAM - LIS BAGGA CHALOG CLUSTER : CCA - 8.63 Ha (GOHAR BLOCK)

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FILE NAME 12503A-CV-36154-Rev-P0			

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	FLOW DIAGRAM FOR LIS BAGGA CHALOG GOHAR BLOCK MANDI DISTRICT		
	TATA CONSULTING ENGINEERS LIMITED MUMBAI		
	SCALE : NTS	DWG NO. TCE.12503A-CV-3082-FD-36154	ISSUE P0
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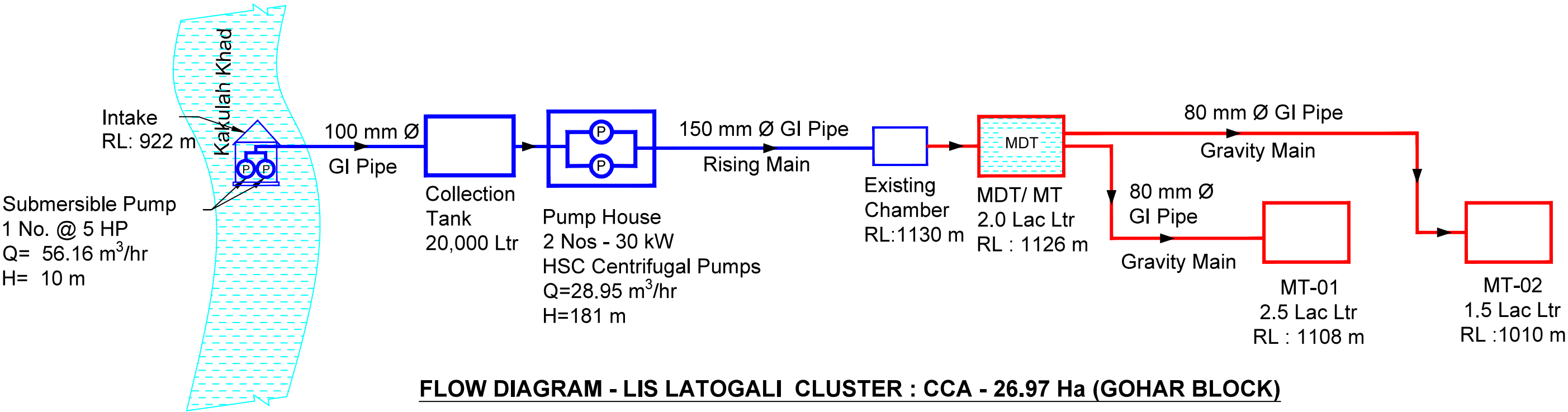


LEGEND:

- EXISTING COMPONENT
- PROPOSED COMPONENT
- SOURCE
- PUMP

NOTE:

1. RL MAY VARY AS PER ACTUAL ROUTE SURVEY.



SIGN.										
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ISSUE										

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FILE NAME: 12503A-CV-36155-Rev-P0			



DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)
IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

FLOW DIAGRAM FOR LIS LATOGALI
GOHAR BLOCK, MANDI DISTRICT



TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS
DC & DISC: DEL-CV

DWG NO. TCE.12503A-CV-3082-FD-36155

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