

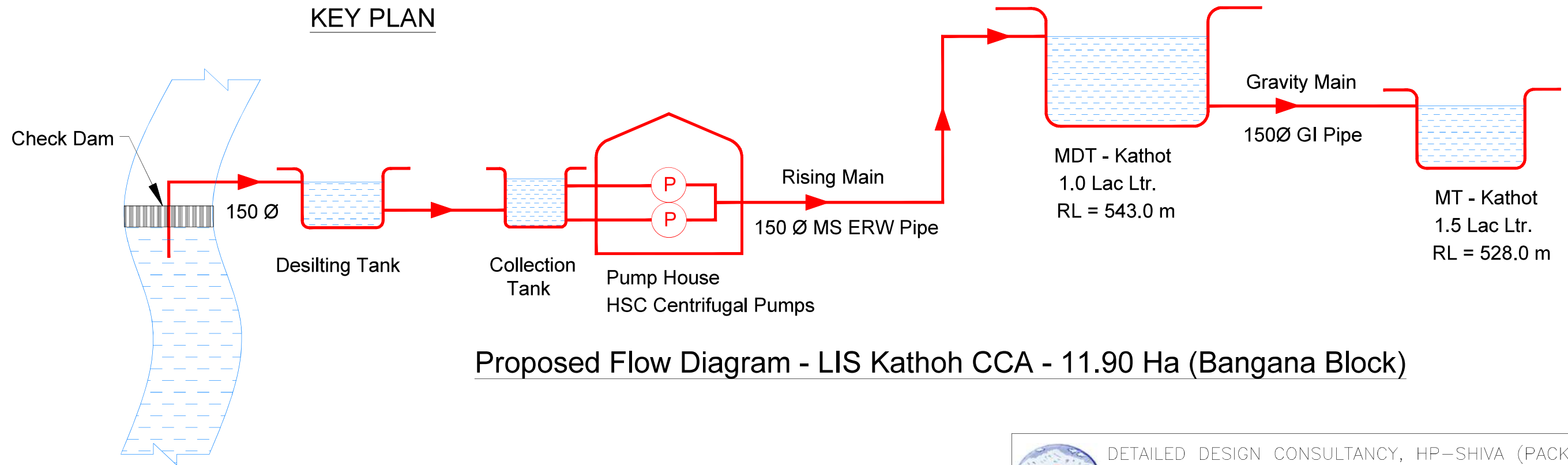


Legend:-

1. Proposed
2. Source
3. MDT
4. MT
- Main Distribution Tank

Modular Tank

KEY PLAN



Proposed Flow Diagram - LIS Kathoh CCA - 11.90 Ha (Bangana Block)

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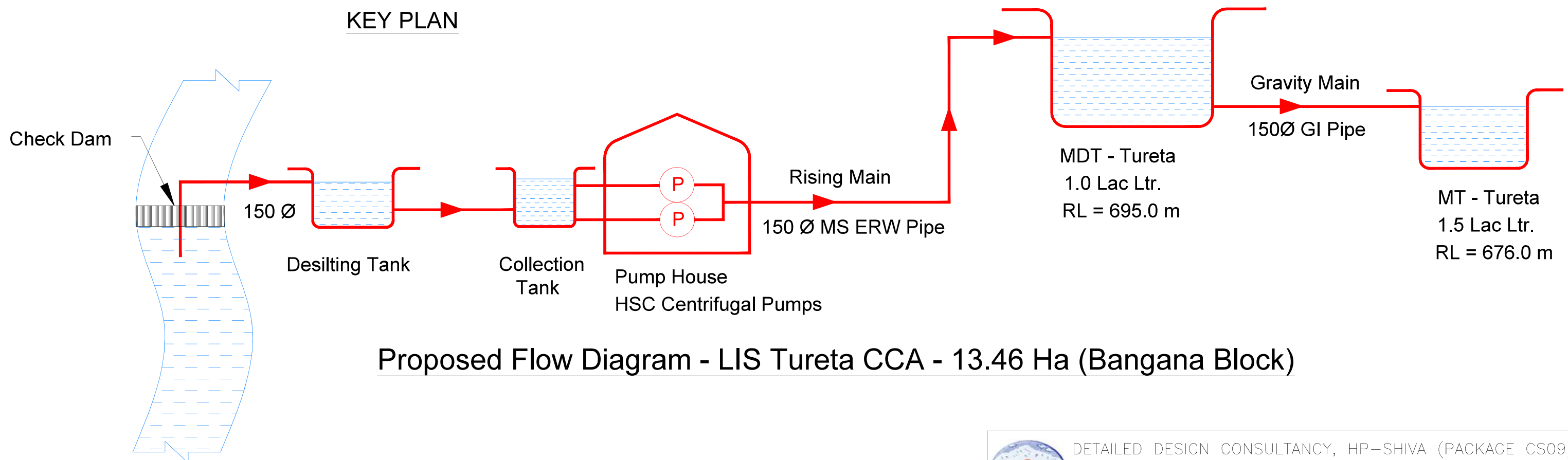
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FILE NAME 12503A-CV-30051-Rev-P0			

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	IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT		
FLOW DIAGRAM OF PROPOSED LIS KATHOH BANGANA BLOCK, UNA DISTRICT			
	TATA CONSULTING ENGINEERS LIMITED MUMBAI		
SCALE : NTS	DWG NO.	TCE.12503A-CV-3082-FD-30051	ISSUE P0
DC & DISC: DEL-CV			

Bangana Block, UNA District.



1. Proposed 
2. Source 
3. MDT Main Distribution Tank
4. MT Modular Tank



Proposed Flow Diagram - LIS Tureta CCA - 13.46 Ha (Bangana Block)

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	REVISIONS												
PO	SIGN.												16-04-2022
	INITIALS	BSN	DG	DVB							MK	DK	
	REVISIONS												
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DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

FLOW DIAGRAM OF PROPOSED LIS TURETA
BANGANA BLOCK, UNA DISTRICT



TATA CONSULTING ENGINEERS LIMITED

MUMBAI

SCALE : NTS

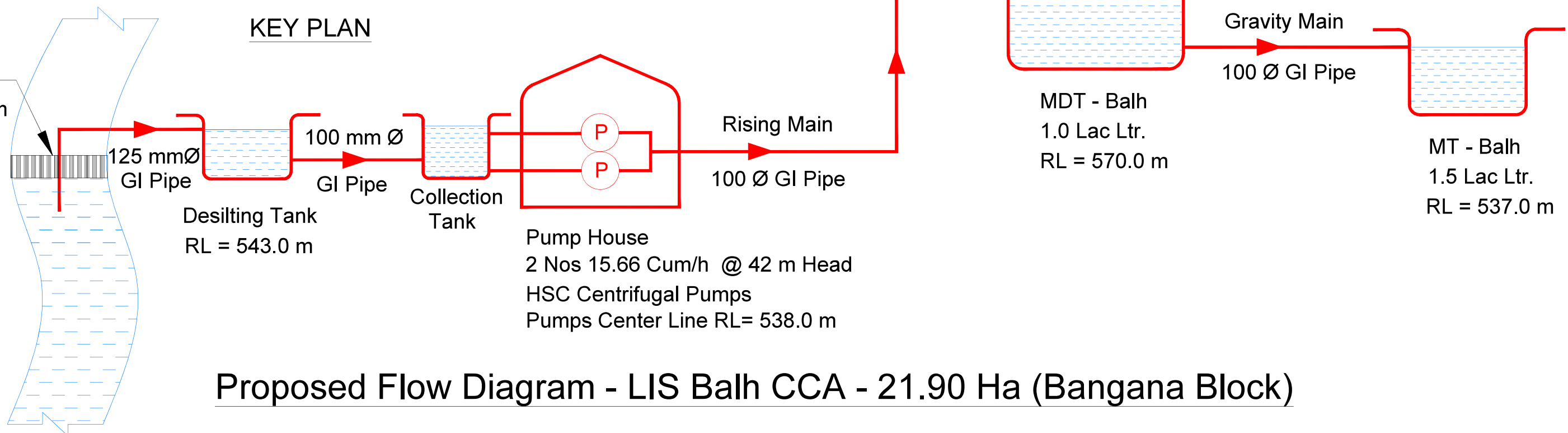
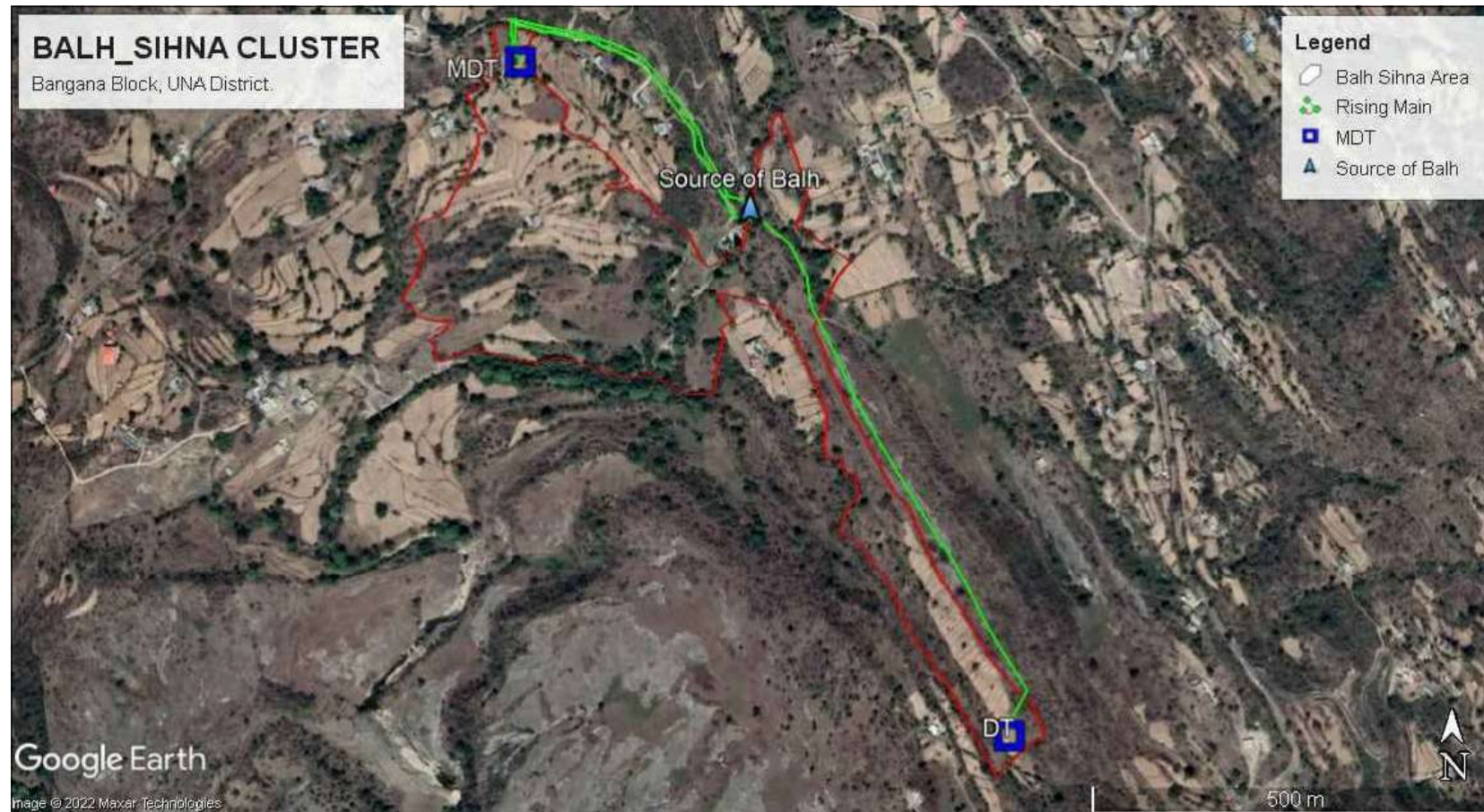
DWG NO.

DWG NO.	TCE.12503A-CV-3082-FD-30052
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ISSUE

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Bangana Block, UNA District.



Proposed Flow Diagram - LIS Balh CCA - 21.90 Ha (Bangana Block)

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	REVISIONS	AS PER CLIENT REQUIREMENT												
P0	SIGN.													16-04-2022
	INITIALS	BSN	DG	DVB								MK	DK	
	REVISIONS													
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd-mm-yyyy)	
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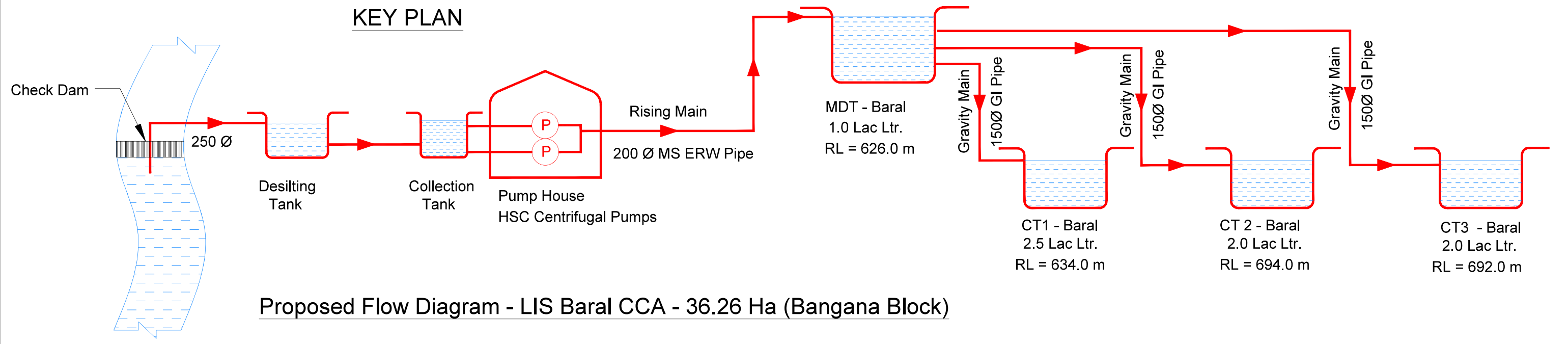
MUMBAI

ISSUE

1



- Legend:-
- 1. Proposed
 - 2. Source
 - 3. MDT
 - 4. MT
- Main Distribution Tank
- Modular Tank



	SIGN.												
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	REVISIONS												
P0	SIGN.											16-04-2022	
	INITIALS	BSN	DG	DVB							MK		DK
	REVISIONS												
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd-mm-yyyy)
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Legend

- Water Source
- Proposed Tank Dobad (555 MSL)
- Rising_Main
- Dobad_8

	SIGN.								
	INITIALS								
	REVISIONS								
P0	SIGN.								
	INITIALS	GKJ	DG	MK			MK	DK	17-04-2022
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TITLE:-

KEY PLAN OF DOBAD CLUSTER
BANGANA BLOCK, UNA DISTRICT.

TATACONSULTING ENGINEERS LIMITED.
MUMBAI

SCALE:- 1:2,500

DWG. No:-
TCE.12503A-CV-3005-LM-30401

ISSUE:-
P0

File Name: 12503A-CV-30401-Rev-P0

DL.CEN:- DEL-CV



Legend

- Source
- MDT
- Tank
- Pump
- Junction
- Rising_Main
- Gravity_Main
- Dobad_8

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	REVISIONS								
P0	SIGN.								
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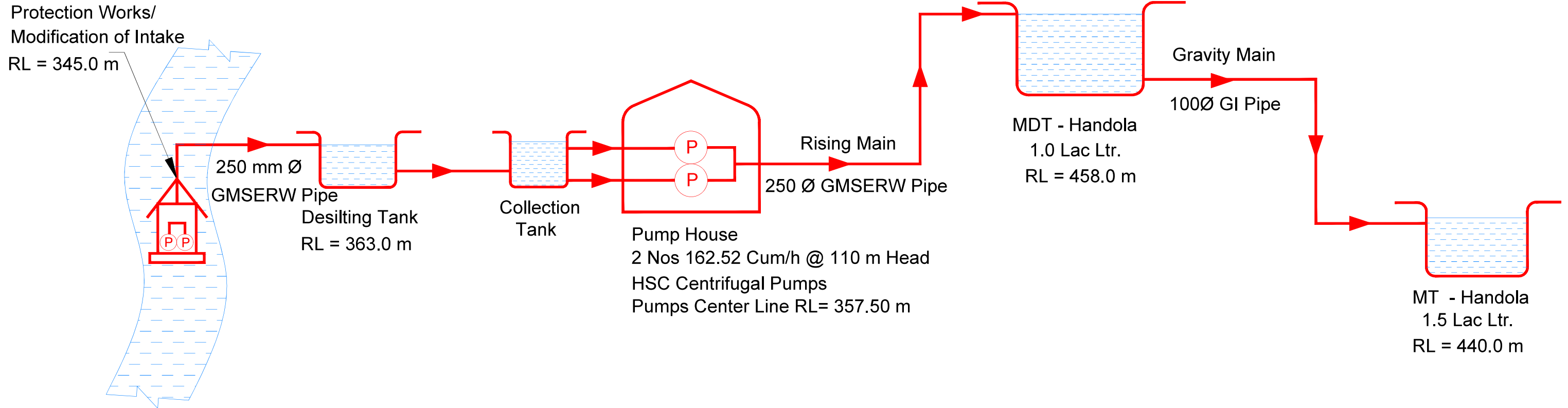
IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TITLE:-
NETWORK DRAWING OF LIFT IRRIGATION SCHEME FOR DOBAD CLUSTER, BANGANA BLOCK, UNA DISTRICT.



TATACONSULTING ENGINEERS LIMITED. MUMBAI

SCALE:- 1:2,500	DWG. No:-	ISSUE:-
DL.CEN:- DEL-CV	TCE.12503A-CV-3082-WS-30402	P0



Proposed Flow Diagram - LIS Handola CCA - 52.0 Ha (Bangana Block)

P1	SIGN.													27-05-2022
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P0	SIGN.													16-04-2022
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ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd-mm-yyyy)	
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IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

FLOW DIAGRAM OF PROPOSED LIS HANDOLA
BANGANA BLOCK, UNA DISTRICT



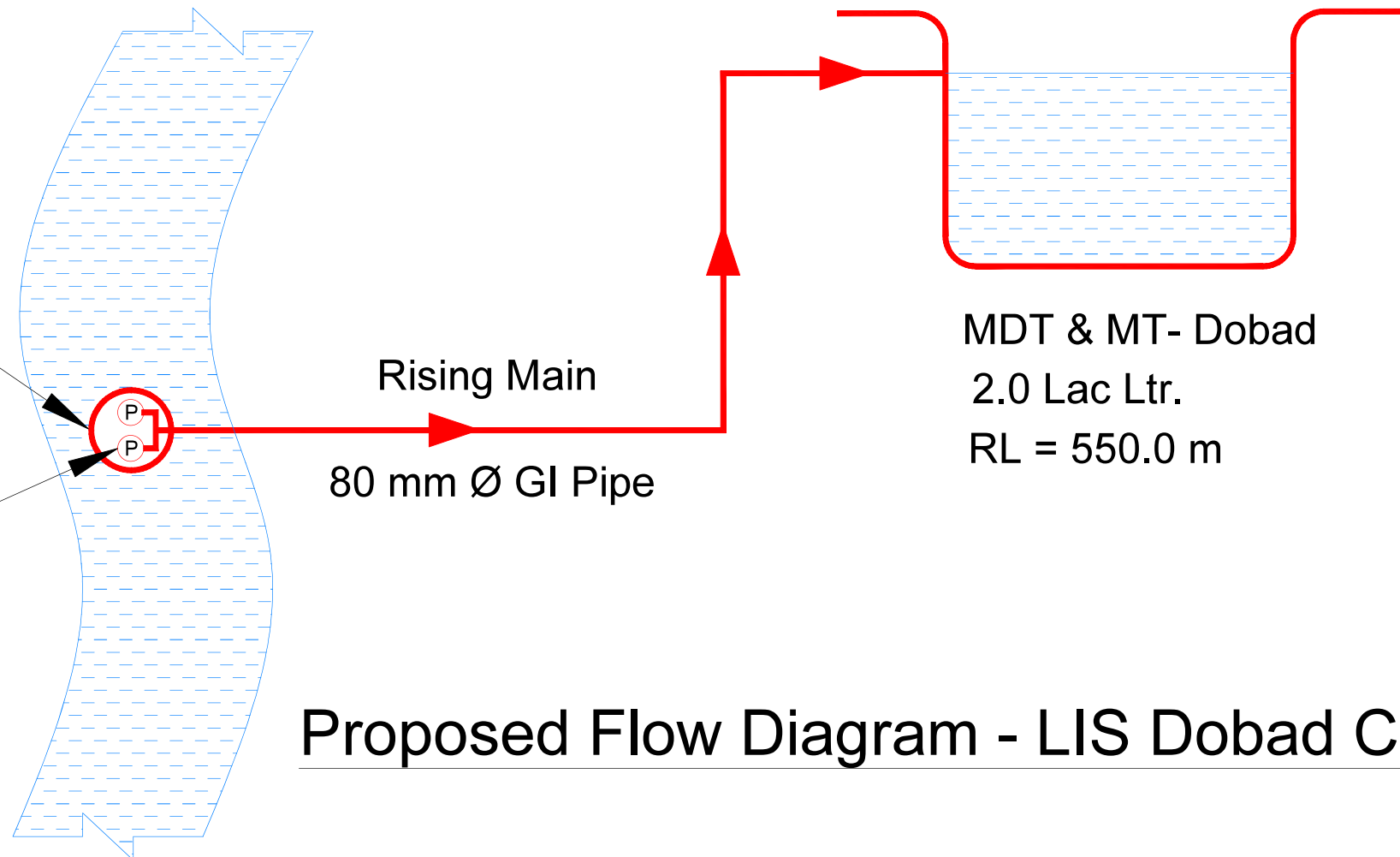
TATA CONSULTING ENGINEERS LIMITED
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ed	SCALE	: NTS
1	DC & DISC	: DEL-CV

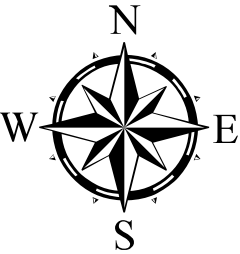
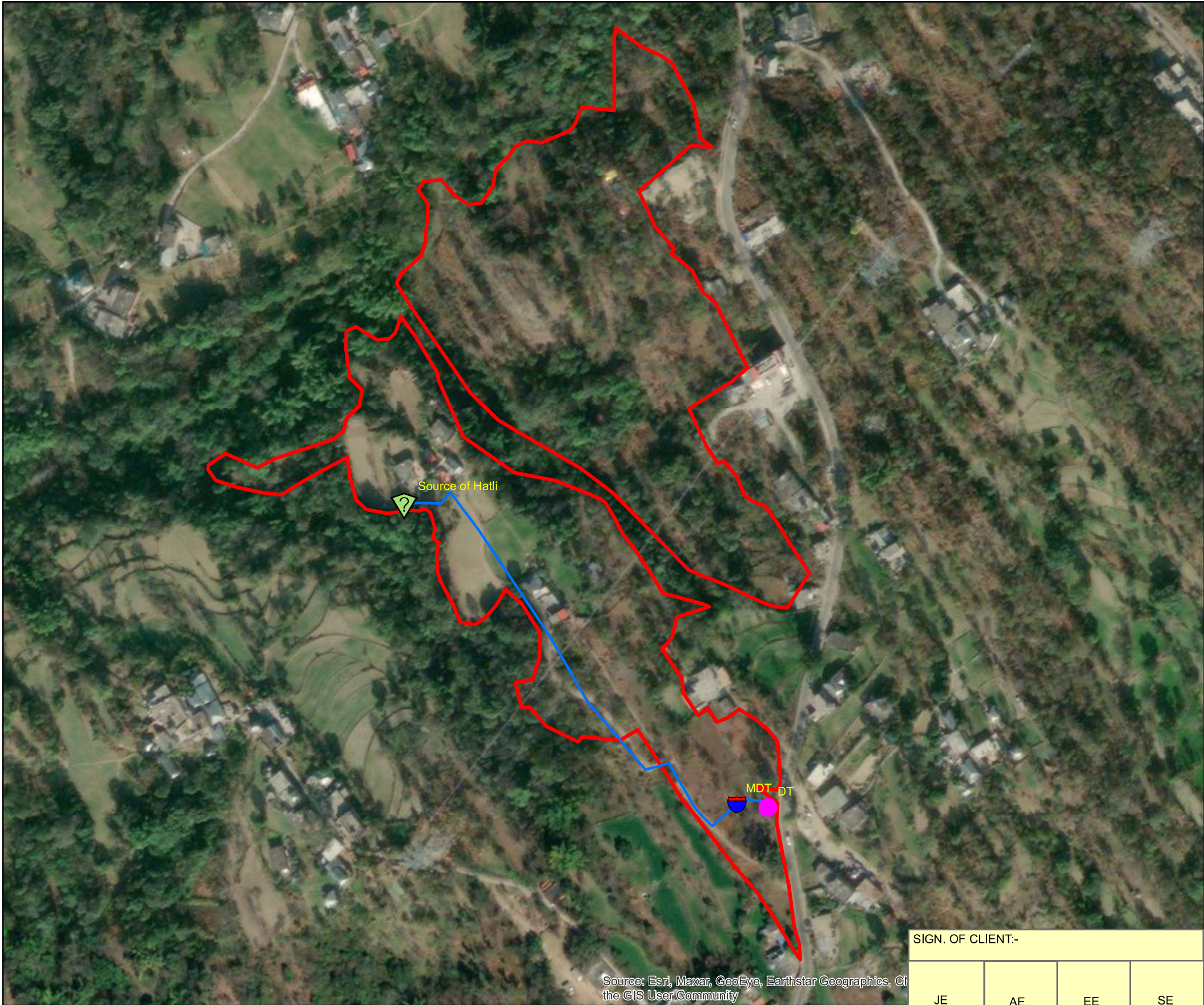
DWG NO.	TCF 12503A-CV-3082-FILE	Legend:-	ISSUE	P1
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Legend:-

SSUE P1



ISSUE P1



Legend

- Source of Halti
- Main Delivery Tank
- Delivery Tank
- Rising_Main
- HALTI Cluster

	SIGN.								
	INITIALS								
	REVISIONS								
P0	SIGN.								
	INITIALS	GKJ	DG	MK			MK	DK	17-04-2022
	REVISIONS								
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME	
					CLEARED			PE/PM	APPD.
									DATE

Source: Esri, Mawar, GeoEye, Earthstar Geographics, CN the GIS User Community

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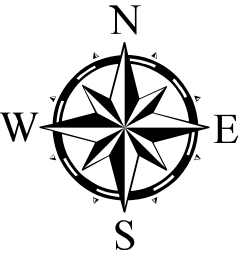
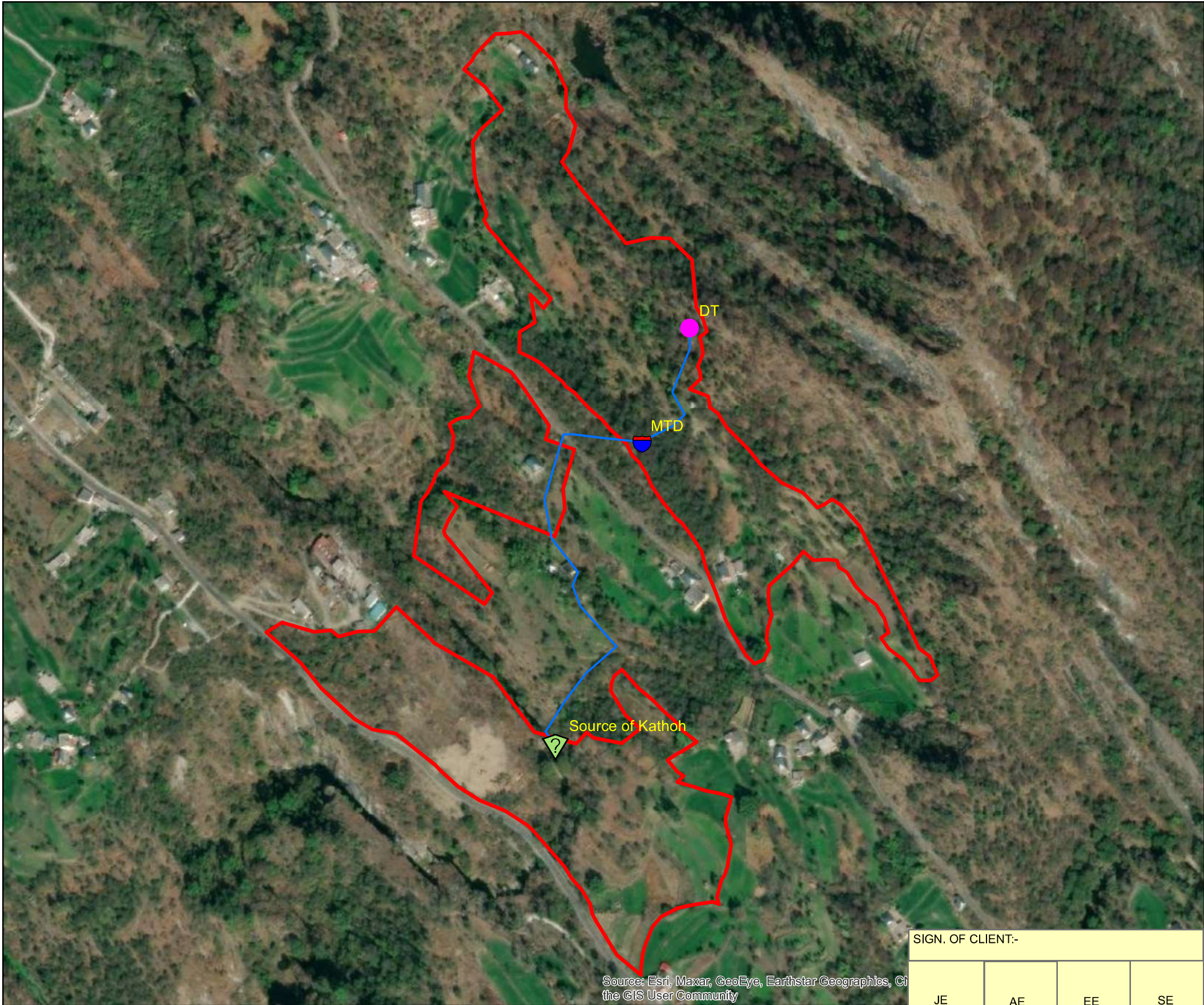
IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TITLE:- KEY PLAN OF HALTI CLUSTER BANGANA BLOCK, UNA DISTRICT.



TATACONSULTING ENGINEERS LIMITED. MUMBAI

SCALE:- 1:3,000	DWG. No:- TCE.12503A-CV-3005-LM-30450	ISSUE:- P0
DL.CEN:- DEL-CV		



Legend

- Source of Kathoh
- Main Delivery Tank
- Delivery Tank
- Rising_Main
- KATHOH Cluster

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	REVISIONS								
P0	SIGN.								
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	REVISIONS								
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME	
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									DATE

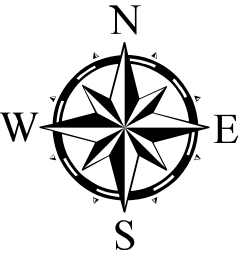
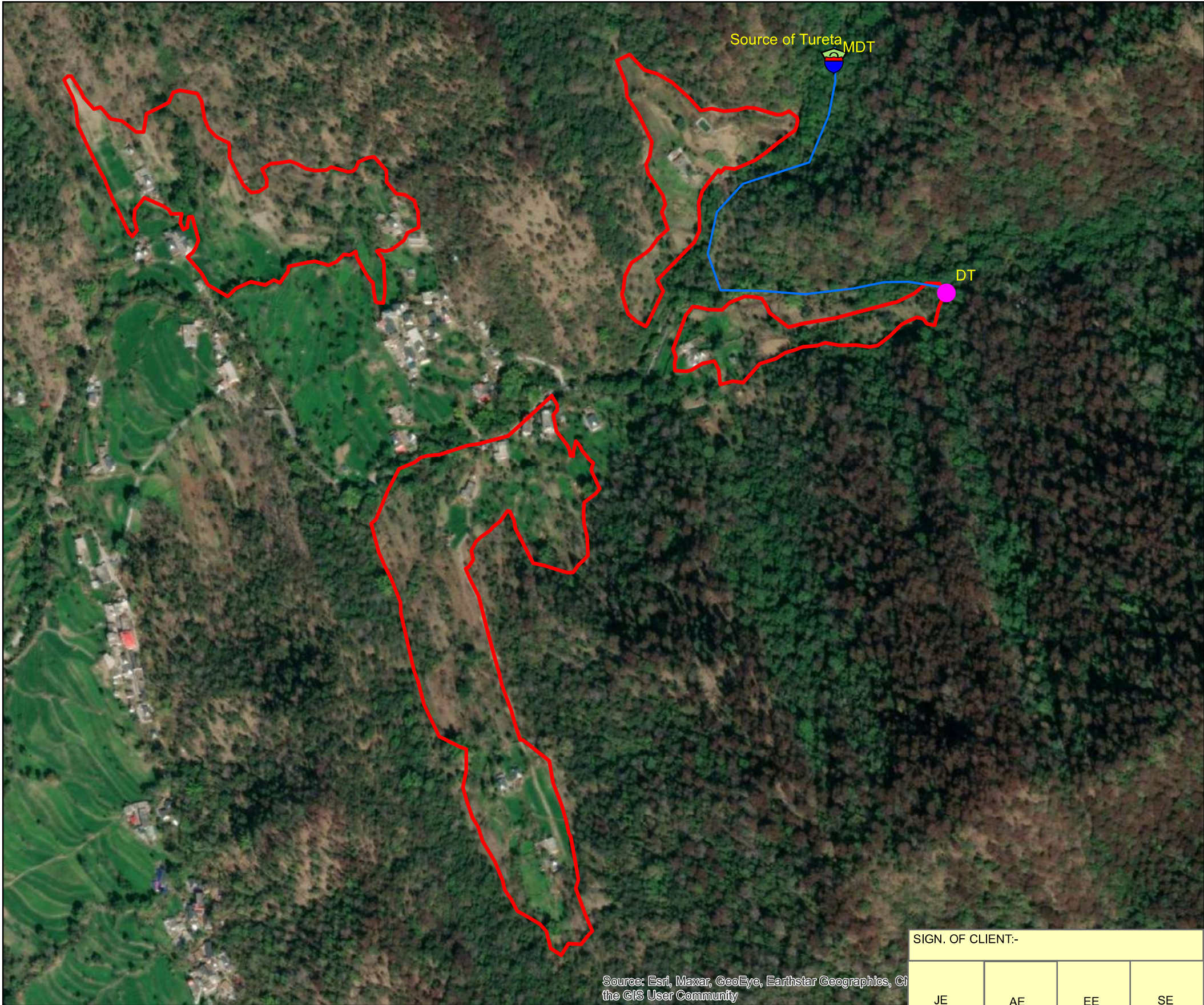
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	DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)		
IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT			
TITLE:- KEY PLAN OF KATHOH CLUSTER BANGANA BLOCK, UNA DISTRICT.			
	TATACONSULTING ENGINEERS LIMITED. MUMBAI		
SCALE:- 1:4,500	DWG. No:- TCE.12503A-CV-3005-LM-30451		ISSUE:- P0
DL.CEN:- DEL-CV			



Legend

- Source of Tureta
- Main Delivery Tank
- Delivery Tank
- Rising_Main
- TURETA

	SIGN.												
	INITIALS												
	REVISIONS												
P0	SIGN.												17-04-2022
	INITIALS	GKJ	DG	MK							MK	DK	
	REVISIONS												
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD.	DATE
					CLEARED								

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CN the GIS User Community

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DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TITLE:-

KEY PLAN OF TURETA CLUSTER BANGANA BLOCK, UNA DISTRICT.



TATACONSULTING ENGINEERS LIMITED. MUMBAI

SCALE:- 1:5,500

DWG. No:-

DL.CEN.:- DEL-CV

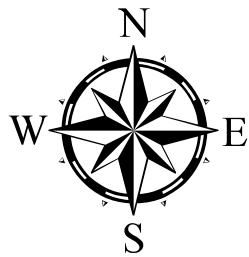
ISSUE:-

P0

TCE.12503A-CV-3005-LM-30452



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CN



Legend

- Source of Baral
- Main Delivery Tank
- Delivery Tank -1
- Delivery Tank -2
- Delivery Tank -3
- Rising_Main
- Baral_Cluster

	SIGN.								
	INITIALS								
	REVISIONS								
P0	SIGN.								
	INITIALS	GKJ	DG	MK			MK	DK	17-04-2022
	REVISIONS								
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME	
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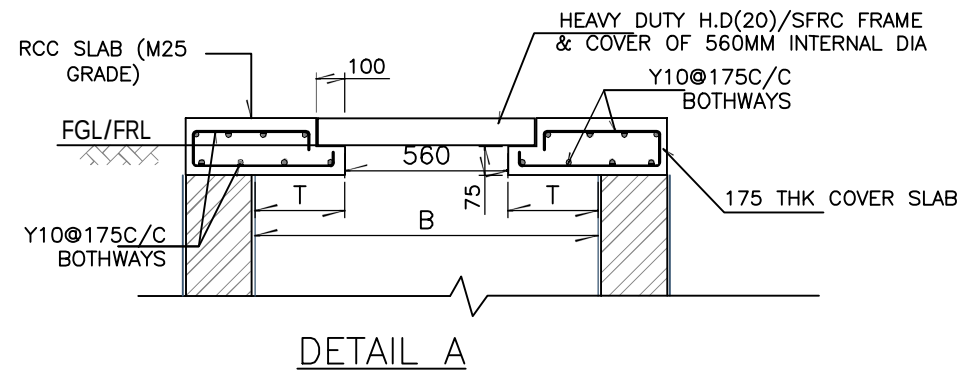
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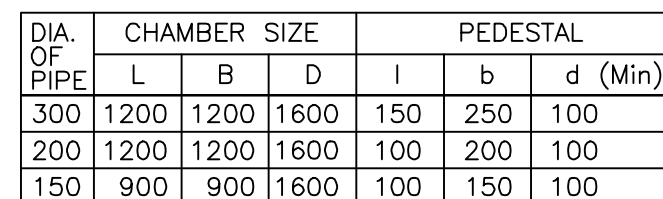
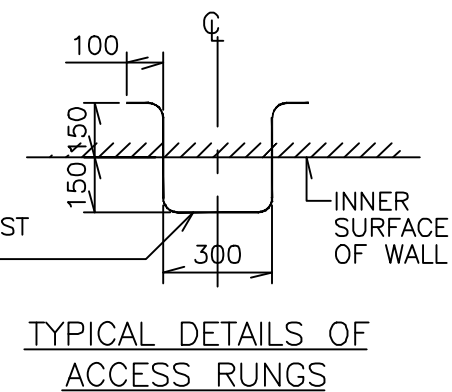
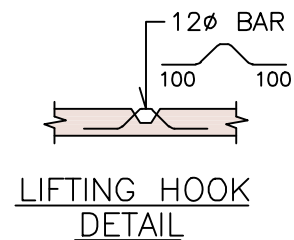


DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)		
IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT		
TITLE:- KEY PLAN OF BARAL CLUSTER BANGANA BLOCK, UNA DISTRICT.		
TATACONSULTING ENGINEERS LIMITED. MUMBAI		
SCALE:- 1:6,000	DWG. No:- TCE.12503A-CV-3005-LM-30454	ISSUE:- P0
DL.CEN:- DEL-CV		



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

1. ALL DIMENSIONS ARE IN MILLIMETRE AND LEVELS IN METRE UNLESS NOTED.
2. GRADE OF PCC SHALL BE M15 WITH MAXIMUM 40mm DOWN GRADED AGGREGATES CONFORMING TO SPECIFICATION.
3. REINFORCEMENT SHALL BE HIGH YIELD STRENGTH DEFORMED BARS TO GRADE Fe500 CONFORMING TO IS:1786 (LATEST ISSUE).
4. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS.
RC COVER—20mm TOP & BOTTOM
5. SAFE BEARING CAPACITY OF SOIL IS CONSIDERED AS 15 T/Sqm. AT FOUNDING LEVEL.
6. 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.
7. BRICK MASONRY SHALL BE IN CM (1:4).
8. BRICKS SHALL BE OF MINIMUM 75 Kg/cm² COMPRESSIVE STRENGTH.
9. THE TYPICAL DETAILS OF CHAMBER ARE APPLICABLE FOR 150mm TO 600mm DIA PIPELINE.
10. VALVE CHAMBERS SHALL BE CONSTRUCTED IN RCC IN CASE HIGH WATER TABLE AND SPACE CONSTRAINT.
11. THE FOOTREST SHALL BE PROVIDED FROM TOP COVER TO PIPE BARREL TOP AND THEN PIPE BARREL TOP UPTO 300mm ABOVE CHAMBER BOTTOM.
12. VALVE SPINDLE EXTENSIONS TO BE FITTED TO BRING TOP OF VALVE SPINDLE TO WITHIN 100mm TO UNDERSIDE OF RC COVER.



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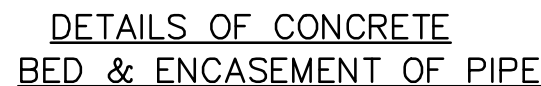


TABLE										
INTERNAL DIAMETER OF PIPE (mm)	ANGLE OF BEND	DESIGN PRESSURE (kg/m ²)	SOIL COVER OVER PIPE Ds (mm)	H (m)	L1 (m)	L2 (m)	L3 (m)	L (m)	B1 (m)	B2 (m)
100	90°	4.35	1000	0.70	0.75	0.40	0.35	0.77	0.70	0.35
100	45°	4.35	1000	0.60	0.55	0.30	0.25	0.57	0.60	0.30
100	22.5°	4.35	1000	0.45	0.45	0.25	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

LEGEND:

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

NOTES:

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

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	REVISIONS															
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	INITIALS	SM	MJ	DVP								NMS	NMS	15-04-2022		
	REVISIONS															
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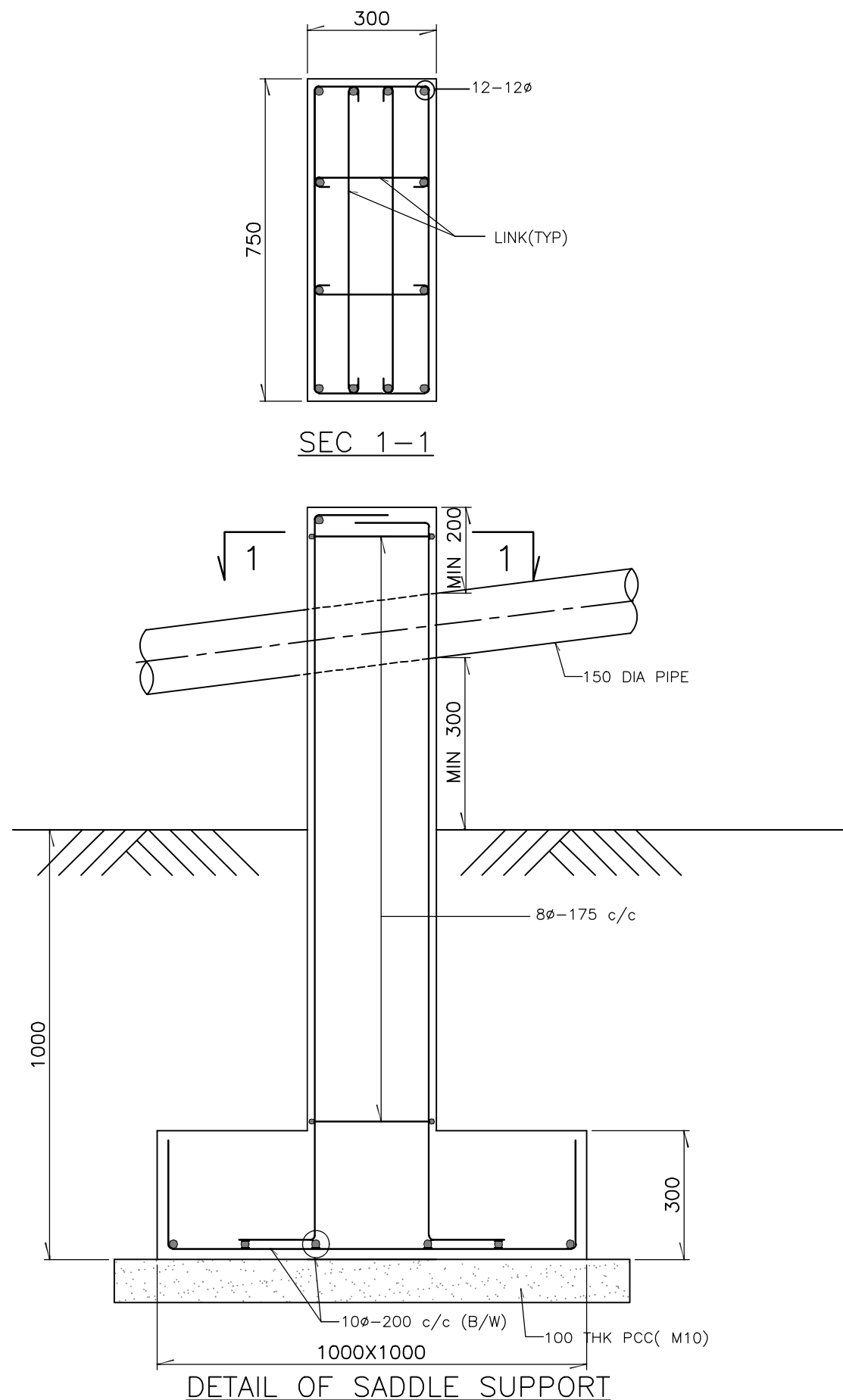
DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)
IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TYPICAL DETAILS OF THRUST BLOCK



TATA CONSULTING ENGINEERS LIMITED
MUMBAI

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LEGEND

DIA --- DIAMETER
C/C --- CENTRE TO CENTRE
THK --- THICK
B/W --- BOTHWAYS
PCC --- PLAIN CEMENT CONCRETE
TYP --- TYPICAL

NOTES:

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.

SIGN.										
PO										
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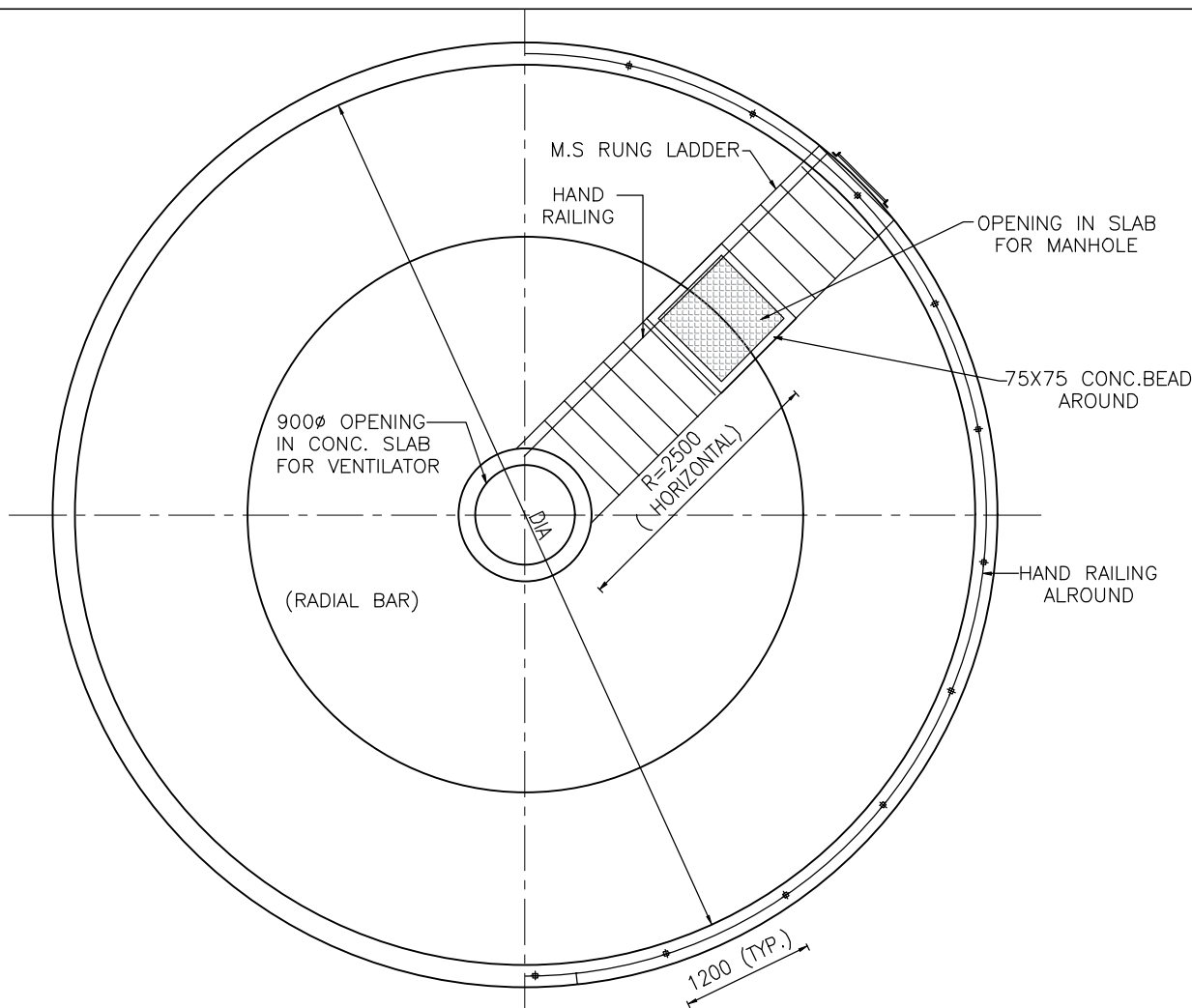
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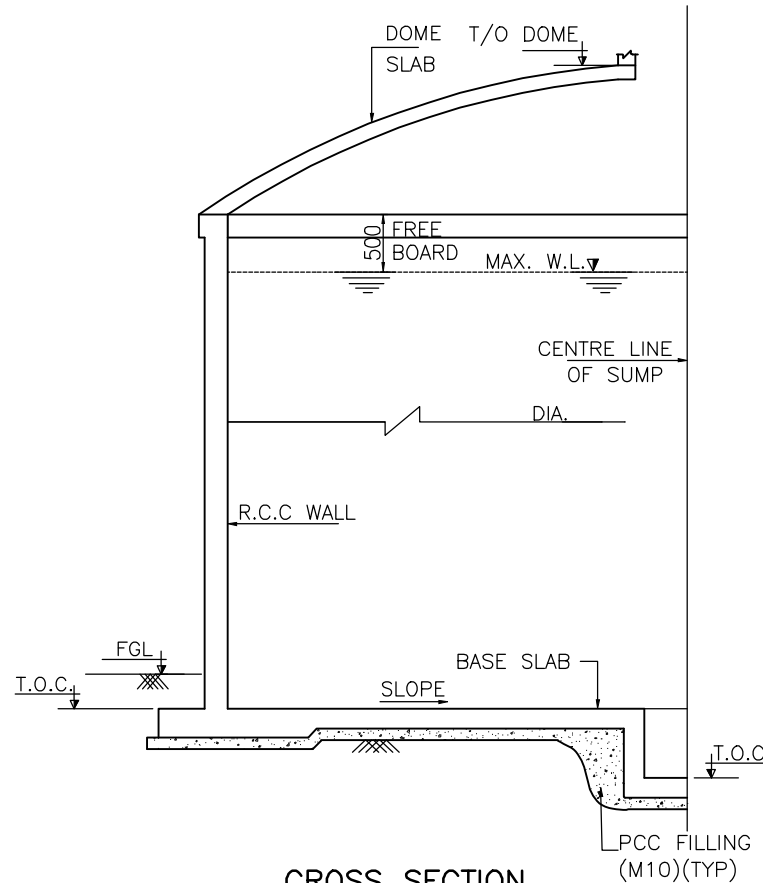
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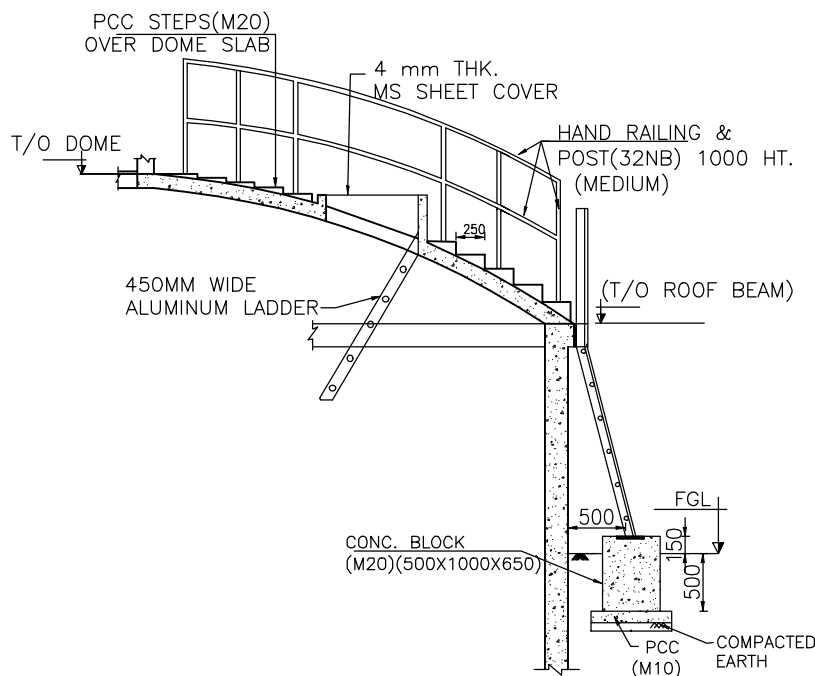
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	IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT		
TYPICAL DETAIL OF SADDLE SUPPORT			
	TATA CONSULTING ENGINEERS LIMITED		
	MUMBAI		
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PLAN



CROSS SECTION



DET.OF STEPS
AND M.S.RUNG LADDER

LEGEND

DIA ——— DIAMETER
R ——— RADIUS
PCC ——— PLAIN CEMENT CONCRETE
TYP ——— TYPICAL
WL ——— WATER LEVEL
M.S. ——— MILD STEEL
T/O ——— TOP OF

NOTES

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



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
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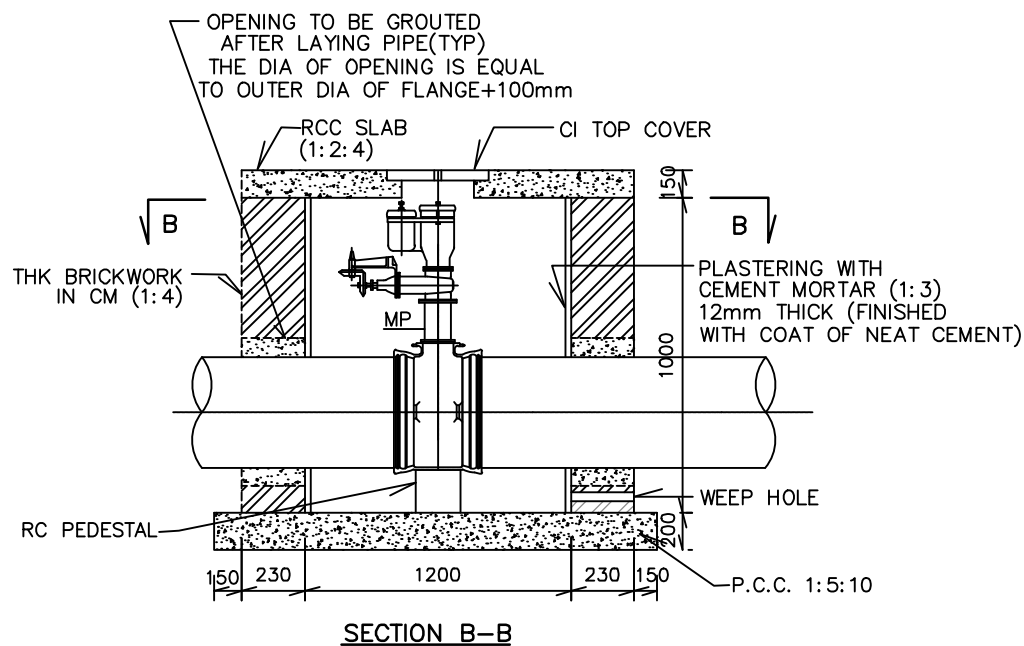
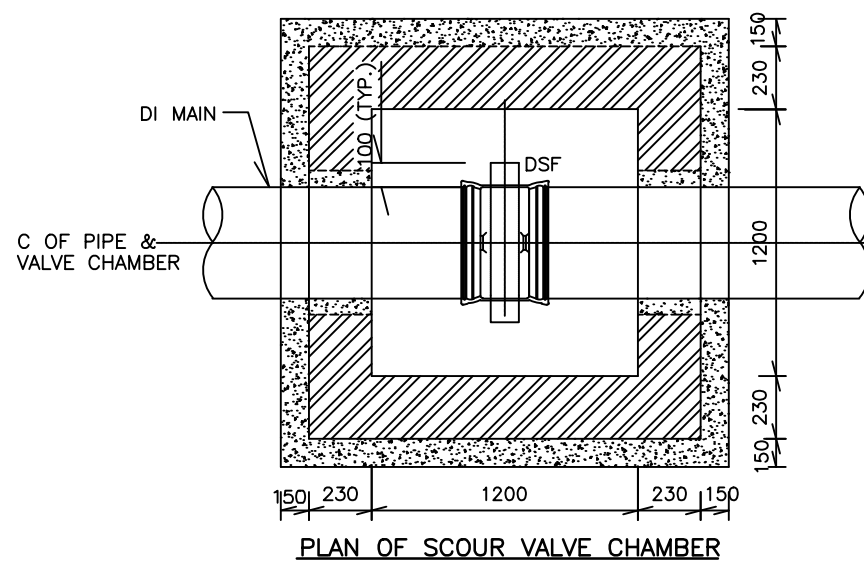
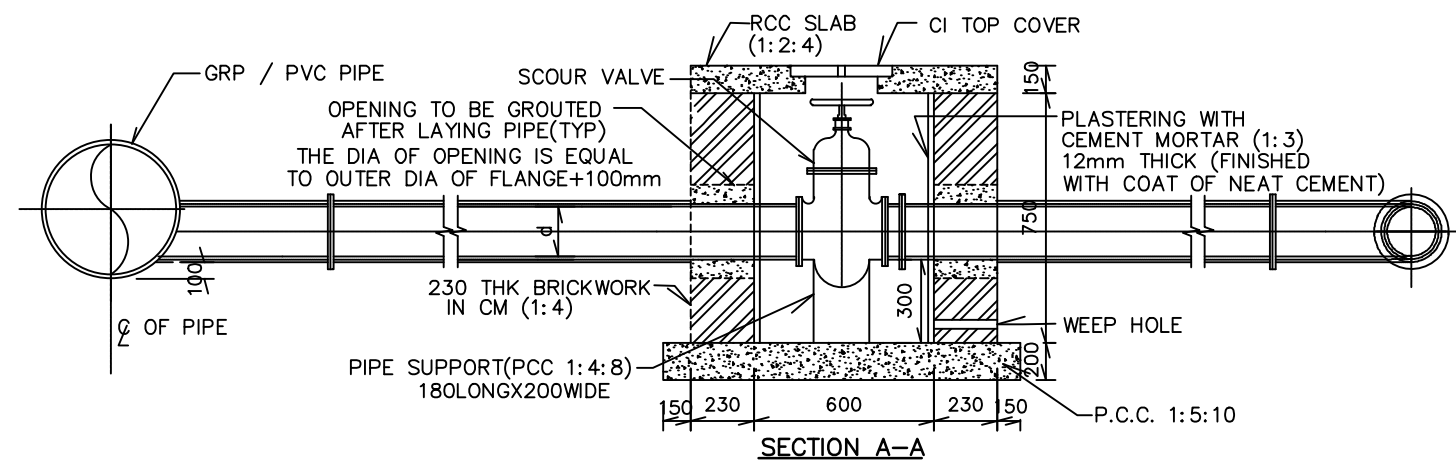
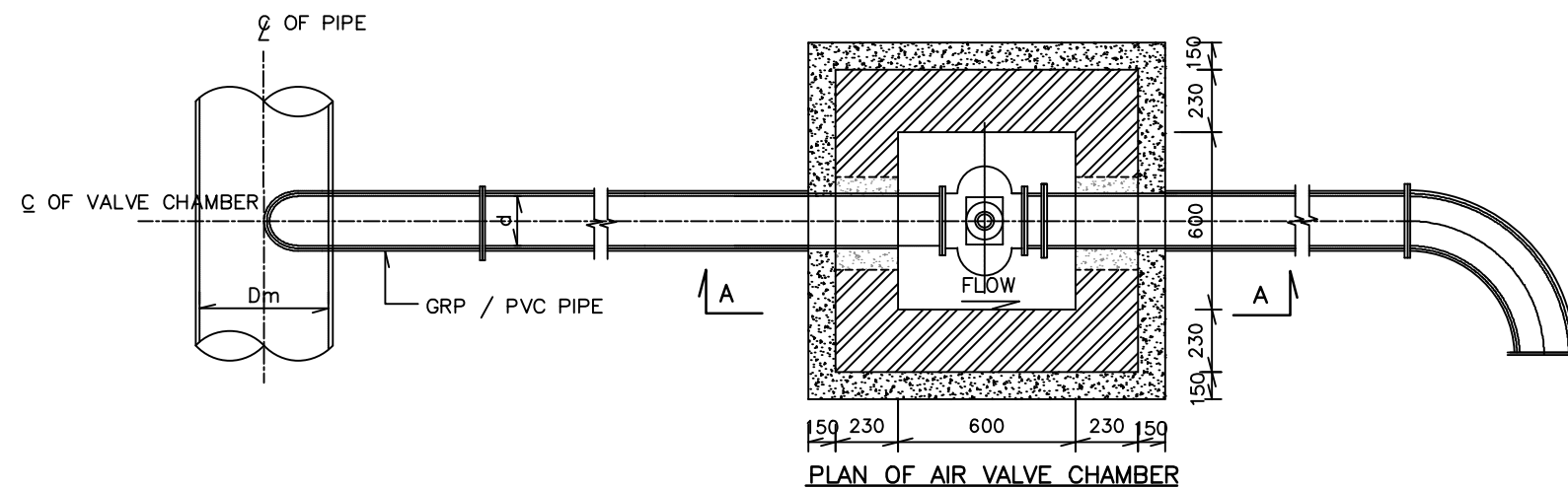
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	REVISIONS												
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					CLEARED								



- LEGEND

RCC	————	REINFORCED CEMENT CONCRETE
PCC	————	PLAIN CEMENT CONCRETE
CI	————	CAST IRON
CM	————	CEMENT MORTAR
THK	————	THICK
PVC	————	POLY VINYL CHLORIDE
Dm/d	————	INTERNAL CLEAR DIAMETER OF PIPELINE
DI	————	DUCTILE IRON
DSF	————	DOUBLE SOCKET FLANGE
CL	————	CENTER LINE
MP	————	MAKEUP PIECE

NOTES

1. ALL DIMENSIONS ARE IN MM. & LEVELS ARE IN METRES.
2. GRADE OF REINFORCEMENT CEMENT CONCRETE SHALL 1:2:4
3. THE ACTUAL GLS AND ILS OF ALL CHAMBERS SHALL BE FIXED BY THE CONTRACTOR IN CONSULTATION WITH THE ENGINEER-IN-CHARGE.
4. EXACT ORIENTATION AND LOCATION OF THE CHAMBERS SHALL BE DECIDED BY THE CONTRACTOR IN CONSULTATION WITH THE ENGINEER-IN-CHARGE.
5. CEMENT SHALL BE ORDINARY PORTLAND TYPE CONFORMING TO IS:269 UN,
6. MAXIMUM SIZE OF AGGREGATES SHALL BE 20mm DOWNGRADED FOR RAFT, WALLS, BEAMS AND SLABS.
7. BACKFILLING AROUND WALLS TO BE DONE UNIFORMLY ALL ROUND IN SUCCESSIVE LIFTS OF EQUAL HEIGHT AS PER SPECIFICATION BACKFILLING SHALL BE DONE ONLY WHEN WHEN DIRECTED BY ENGINEER.
8. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH TENDER SPECIFICATION.
9. CHAMBER TO BE PLASTERED INTERNALLY WITH CEMENT MORTAR 1:3 IN 12MM THICKNESS.
10. GRADE OF CONCRETE SHALL BE M20 WITH MAXIMUM 20mm DOWN GRADED AGGREGATES CONFORMING TO SPECIFICATION.
11. FOR LOCATION OF VALVE CHAMBERS REFER NETWORK DISTRIBUTION DRAWING. THE CONTRACTOR SHALL OBTAIN ENGINEER'S APPROVAL FOR ALL VALVE CHAMBER LOCATIONS AND LEVELS BEFORE EXECUTION.
12. THE ARRANGEMENT RELATED TO VALVE AND FITTINGS SHOWN IN THE DRAWING ARE INDICATIVE ONLY. BEFORE CONSTRUCTION, ARRANGEMENT OF VALVE & FITTINGS SHALL BE PROVIDED BY THE CONTRACTOR TO ENGINEER FOR APPROVAL.

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

TYPICAL DETAILS OF SCOUR VALVE
AND AIR VALVE CHAMBER

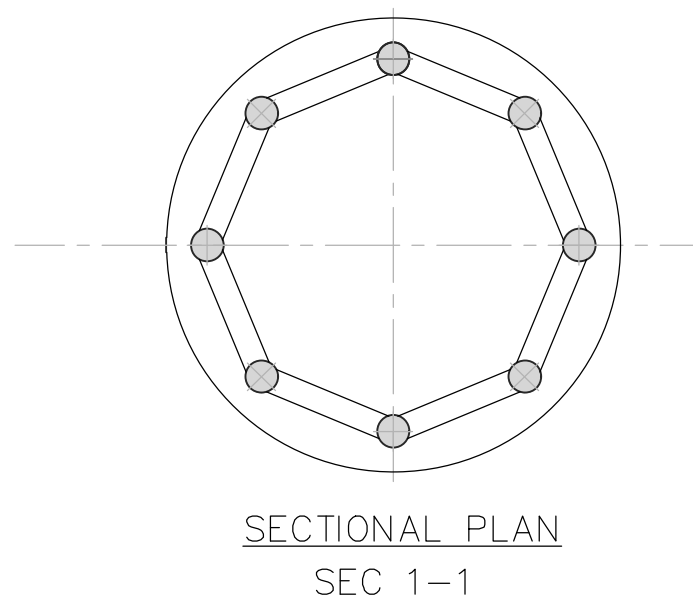


TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE	: NTS
DC & DISC	: DEL

DWG NO.	TCE.12503A-CV-3082-WS-30585
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