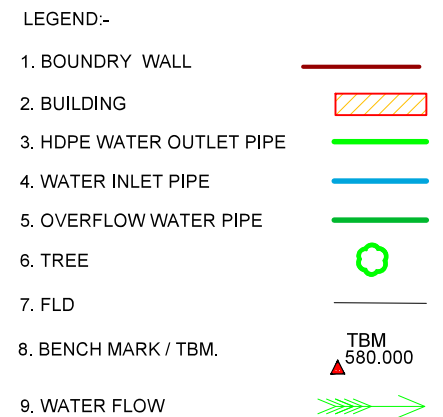


ABBREVIATIONS							
Flow Diagram Drawings		Typical Standard drawings		L-Section drawings		Topographical Survey Drawings	
Q	Discharge (Flow)	HT	High Tension	J	Pipe Junction	GI	Galvanised Iron
H	Pump head	LT	Low Tension	CT	Collection Tank	TBM	Temporary Bench Mark
GI	Galvanised Iron	ELSR	ELevated service 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						

	Drawing list - Package 10 (UNA)	
S.NO.	DRAWING. NO.	TITLE
1	TCE.12503A-CV-3005-LM-30030	Topographical Survey for Sanhal Cluster
2	TCE.12503A-CV-3005-LM-30031	Topographical Survey for Boul-1 Cluster
3	TCE.12503A-CV-3005-LM-30032	Topographical Survey for Boul-2 Cluster
4	TCE.12503A-CV-3005-LM-30033	Topographical Survey for Dulheri Rajputan Cluster
5	TCE.12503A-CV-3005-LM-30034	Topographical Survey for Thana Khurd Cluster
6	TCE.12503A-CV-3005-LM-30035	Topographical Survey for Handola Cluster
7	TCE.12503A-CV-3005-LM-30036	Topographical Survey for Nalwari Cluster
8	TCE.12503A-CV-3005-LM-30037	Topographical Survey for Dumkhar Cluster
9	TCE.12503A-CV-3005-LM-30038	Topographical Survey for Muchali 1&2 Cluster
10	TCE.12503A-CV-3005-LM-30039	Topographical Survey for Charoli Cluster
11	TCE.12503A-CV-3005-LM-30040	Topographical Survey for Halti Cluster
12	TCE.12503A-CV-3005-LM-30041	Topographical Survey for Kathoh Cluster
13	TCE.12503A-CV-3005-LM-30042	Topographical Survey for Tureta Cluster
14	TCE.12503A-CV-3005-LM-30043	Topographical Survey for Balh Cluster
15	TCE.12503A-CV-3005-LM-30044	Topographical Survey for Baral Cluster
16	TCE.12503A-CV-3005-LM-30400	Topographical Survey for Dobad Cluster
17	TCE.12503A-CV-3005-LM-30450	Key Plan of Halti Cluster
18	TCE.12503A-CV-3005-LM-30451	Key Plan of Kathoh Cluster
19	TCE.12503A-CV-3005-LM-30452	Key Plan of Tureta Cluster
20	TCE.12503A-CV-3005-LM-30453	Key Plan of Balh Cluster
21	TCE.12503A-CV-3005-LM-30454	Key Plan of Baral Cluster
22	TCE.12503A-CV-3005-LM-30595	Key Plan of Sanhal,Boul-1, Boul-2 Cluster
23	TCE.12503A-CV-3005-LM-30596	Key Plan of Thana Khurd, Dulheri Rajputan Cluster
24	TCE.12503A-CV-3005-LM-30597	Key Plan of Nalwari, Dumkhar, Charoli Cluster
25	TCE.12503A-CV-3005-LM-30598	Key Plan of Handola Cluster
26	TCE.12503A-CV-3005-LM-30599	Key Plan of Muchali 1&2 Cluster
27	TCE.12503A-CV-3005-LM-30401	Key Plan of Dobad
28	TCE.12503A-CV-3082-WS-30402	Network Drawing for LIS Dobad Cluster
29	TCE.12503A-CV-3082-WS-30620	Network Drawing for LIS Baral

	Drawing list - Package 10 (UNA)	
S.NO.	DRAWING. NO.	TITLE
30	TCE.12503A-CV-3082-WS-30621	Network Drawing for LIS Dulheri Rajputan & Thana Khurd Cluster
31	TCE.12503A-CV-3082-WS-30622	Network Drawing for LIS Chapla Dam (Nalwari, Dumkhar, Charoli Cluster)
32	TCE.12503A-CV-3082-WS-30623	Network Drawing for LIS Handola
33	TCE.12503A-CV-3082-WS-30624	Network Drawing for LIS Muchali 1 & 2
34	TCE.12503A-CV-3082-WS-30625	Network Drawing for LIS Halti
35	TCE.12503A-CV-3082-WS-30626	Network Drawing for LIS Kathoh
36	TCE.12503A-CV-3082-WS-30627	Network Drawing for LIS Tureta
37	TCE.12503A-CV-3082-WS-30628	Network Drawing for LIS Balh
38	TCE.12503A-CV-3082-FD-30045	Flow Diagram for Existing LIS Samoor (Sanhal,Boul-1 & Boul-2 Cluster)
39	TCE.12503A-CV-3082-FD-30046	Flow Diagram for Existing Dulheri Rajputan & Thana Khurd
40	TCE.12503A-CV-3082-FD-30047	Flow Diagram for Existing LIS Handola
41	TCE.12503A-CV-3082-FD-30048	Flow Diagram for Proposed LIS Chapla Dam (Nalwari, Dumkhar, Charoli)
42	TCE.12503A-CV-3082-FD-30049	Flow Diagram for Proposed LIS Muchali 1 & 2
43	TCE.12503A-CV-3082-FD-30050	Flow Diagram for Proposed LIS Halti
44	TCE.12503A-CV-3082-FD-30051	Flow Diagram for Proposed LIS Kathoh
45	TCE.12503A-CV-3082-FD-30052	Flow Diagram for Proposed LIS Tureta
46	TCE.12503A-CV-3082-FD-30053	Flow Diagram for Proposed LIS Balh
47	TCE.12503A-CV-3082-FD-30054	Flow Diagram for Proposed LIS Baral
48	TCE.12503A-CV-3082-FD-30407	Flow Diagram for Proposed LIS Handola
49	TCE.12503A-CV-3082-FD-30408	Flow Diagram for Proposed LIS Samoor (Sanhal,Boul-1 & Boul-2 Cluster)
50	TCE.12503A-CV-3082-FD-30409	Flow Diagram for Proposed Dulheri Rajputan & Thana Khurd
51	TCE.12503A-CV-3082-FD-30410	Flow Diagram for Proposed LIS Dobad
52	TCE.12503A-CV-3082-WS-30581	Typical Sluice Valve Chamber Details
53	TCE.12503A-CV-3082-WS-30582	Typical Details for Thrust Block
54	TCE.12503A-CV-3082-RC-30583	Typical Details for Saddle Support
55	TCE.12503A-CV-3082-GA-30584	Typical GLSR Details (100000, 150000, 200000, 250000 Litre Capacity)
56	TCE.12503A-CV-3082-WS-30585	Typical Details for Scour Valve and Air Valve Chamber
57	TCE.12503A-CV-3082-GA-30586	Typical Details for Pump House and Sump
58	TCE.12503A-CV-3082-GA-30587	General Arrangement for Intake Well

	Drawing list - Package 10 (UNA)	
S.NO.	DRAWING. NO.	TITLE
59	TCE.12503A-CV-3082-WS-30588	Typical Details for Bedding And Trench
60	TCE.12503A-CV-3082-GA-30589	General Arrangement for Check Dam
61	TCE.12503A-CV-3082-GA-30590	Typical Detail for Desilting Tank
62	TCE.12503A-CV-3082-GA-30591	Typical details for ELSR
63	TCE.12503A-CV-3082-GA-30592	Typical details for Percolation Well
64	TCE.12503A-EL-4002-AU-40001	Typical SLD for LIS Pumping Station having LT Motor loads with Max Contract Demand ≤ 50 kVA
65	TCE.12503A-EL-4002-AU-40002	Typical SLD for LIS Pumping Station having LT Motor loads with Max Contract Demand > 50 kVA
66	TCE.12503A-EL-4002-AU-40003	Typical SLD for LIS Pumping Station having HT Motor loads with Max Contract Demand > 50 kVA
67	TCE.12503A-EL-4002-AU-40004	General Notes & Legends for Typical SLD for LIS Pumping Station having LT/ HT Motor loads
68	TCE.12503A-CV-3082-WS-30645	Proposed L-Section - LIS Balh
69	TCE.12503A-CV-3082-WS-30646	Proposed L-Section for LIS Baral
70	TCE.12503A-CV-3082-WS-30647	Proposed L-Section for LIS Charoli
71	TCE.12503A-CV-3082-WS-30648	Proposed L-Section for LIS Dulheri Rajputan
72	TCE.12503A-CV-3082-WS-30649	Proposed L-Section for LIS Dumkhar
73	TCE.12503A-CV-3082-WS-30650	ProposedL-Section for LIS Handola
74	TCE.12503A-CV-3082-WS-30651	ProposedL-Section for LIS Muchali 1 & 2
75	TCE.12503A-CV-3082-WS-30652	Proposed L-Section for LIS Nalwari
76	TCE.12503A-CV-3082-WS-30653	Proposed L-Section for LIS Thana Khurd
77	TCE.12503A-CV-3082-WS-30654	Proposed L-Section for LIS Tureta
78	TCE.12503A-CV-3082-WS-30655	Proposed L-Section for LIS Halti
79	TCE.12503A-CV-3082-WS-30656	Proposed L-Section for LIS Kathoh
80	TCE.12503A-CV-3082-WS-30405	Proposed L-Section for LIS Dobad



TOPOGRAPHICAL SURVEY OF SANHAL CLUSTER
BANGANA BLOCK, UNA DISTRICT



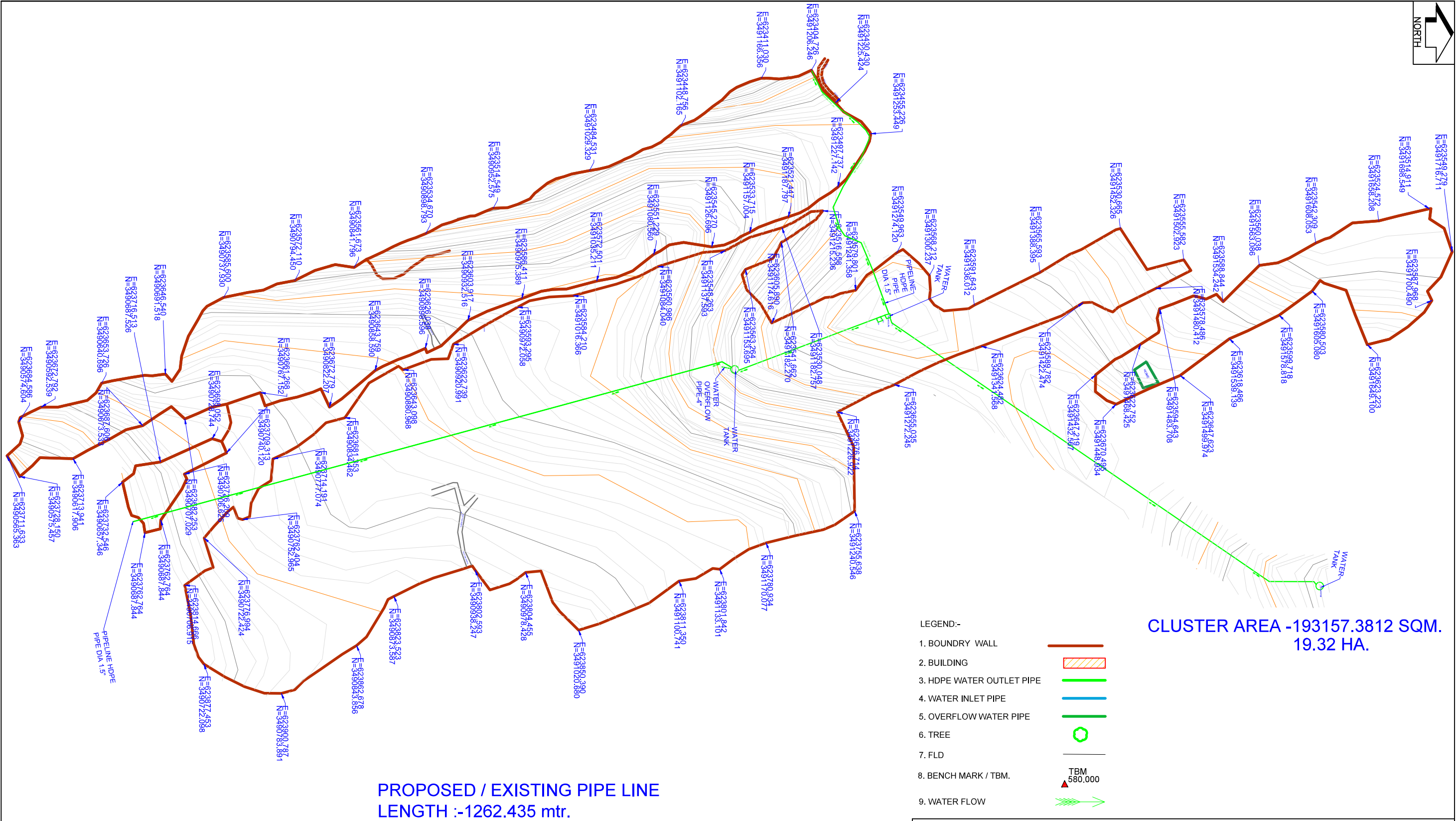
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CLUSTER AREA -193157.3812 SQM.
19.32 HA.

- LEGEND:-
- 1. BOUNDRY WALL
 - 2. BUILDING
 - 3. HDPE WATER OUTLET PIPE
 - 4. WATER INLET PIPE
 - 5. OVERFLOW WATER PIPE
 - 6. TREE
 - 7. FLD
 - 8. BENCH MARK / TBM.
 - 9. WATER FLOW

PROPOSED / EXISTING PIPE LINE
LENGTH :-1262.435 mtr.

	SIGN.												
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	REVISIONS												
PO	SIGN.												
	INITIALS	KL	DVP	DVP							NMS	NMS	
	REVISIONS												
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TOPOGRAPHICAL SURVEY OF BOUL-1 CLUSTER
BANGANA BLOCK, UNA DISTRICT



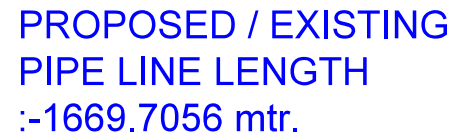
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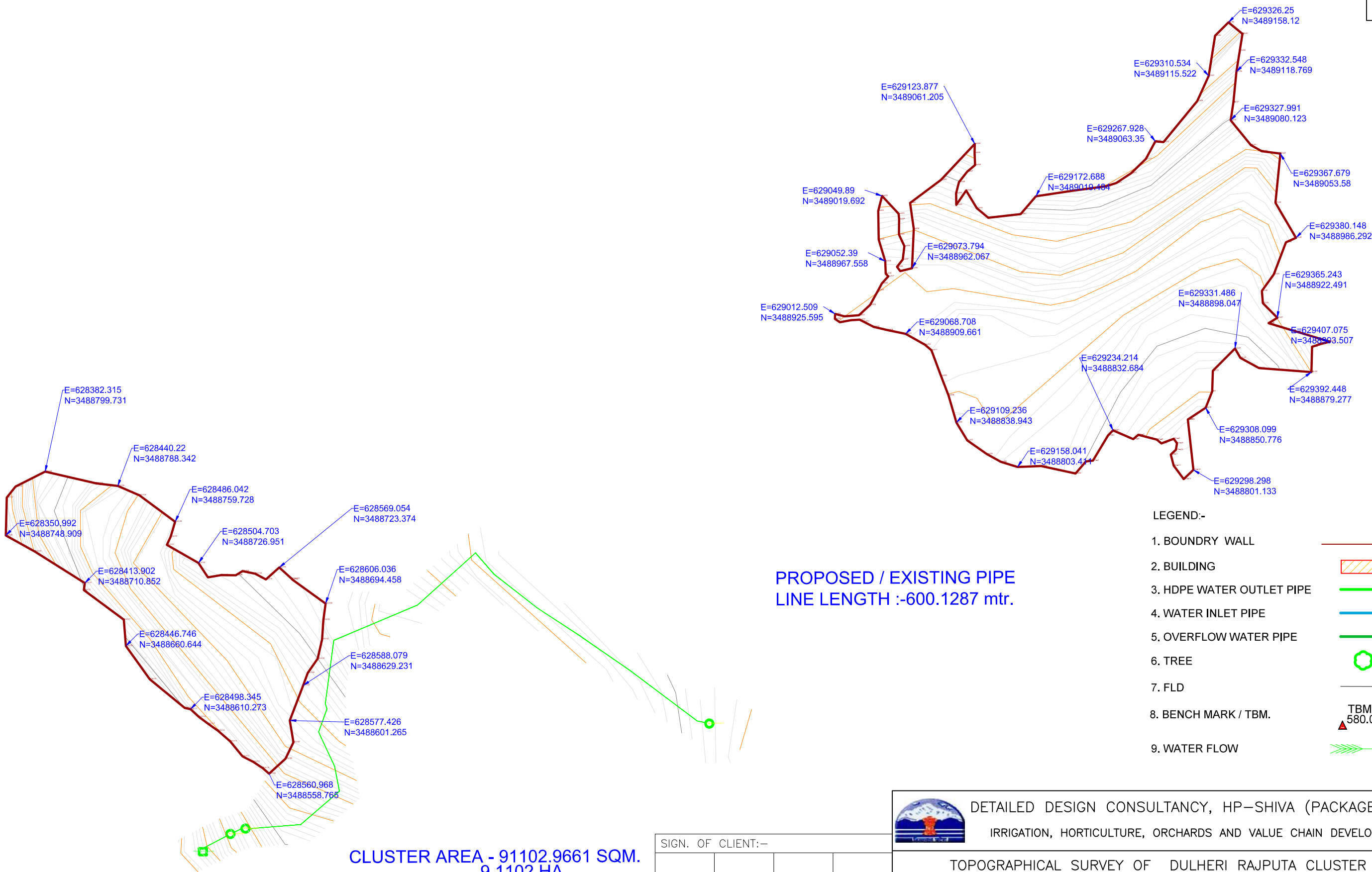
TOPOGRAPHICAL SURVEY OF BOUL-2 CLUSTER
BANGANA BLOCK, UNA DISTRICT



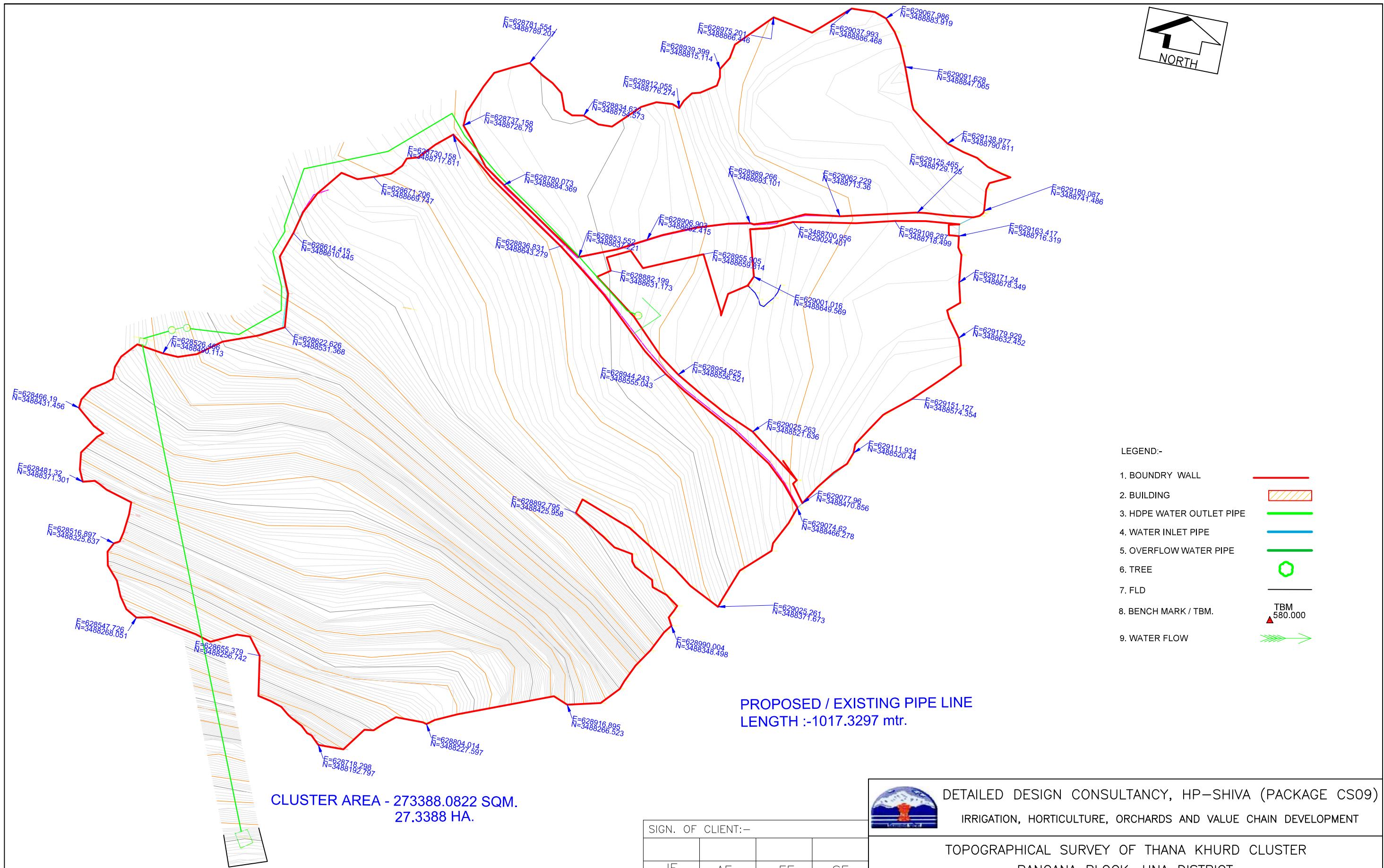
SSUE	P0	ZE-A3
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TCE FORM NO. 093 R1



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PO	SIGN.									
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	REVISIONS									
ISSUE	DRN	DSN	CHD	CV	EL	IC	ME		PE/PM	APPD
	CLEARED									
										DATE (dd-mm-yyyy)

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TOPOGRAPHICAL SURVEY OF THANA KHURD CLUSTER
BANGANA BLOCK, UNA DISTRICT



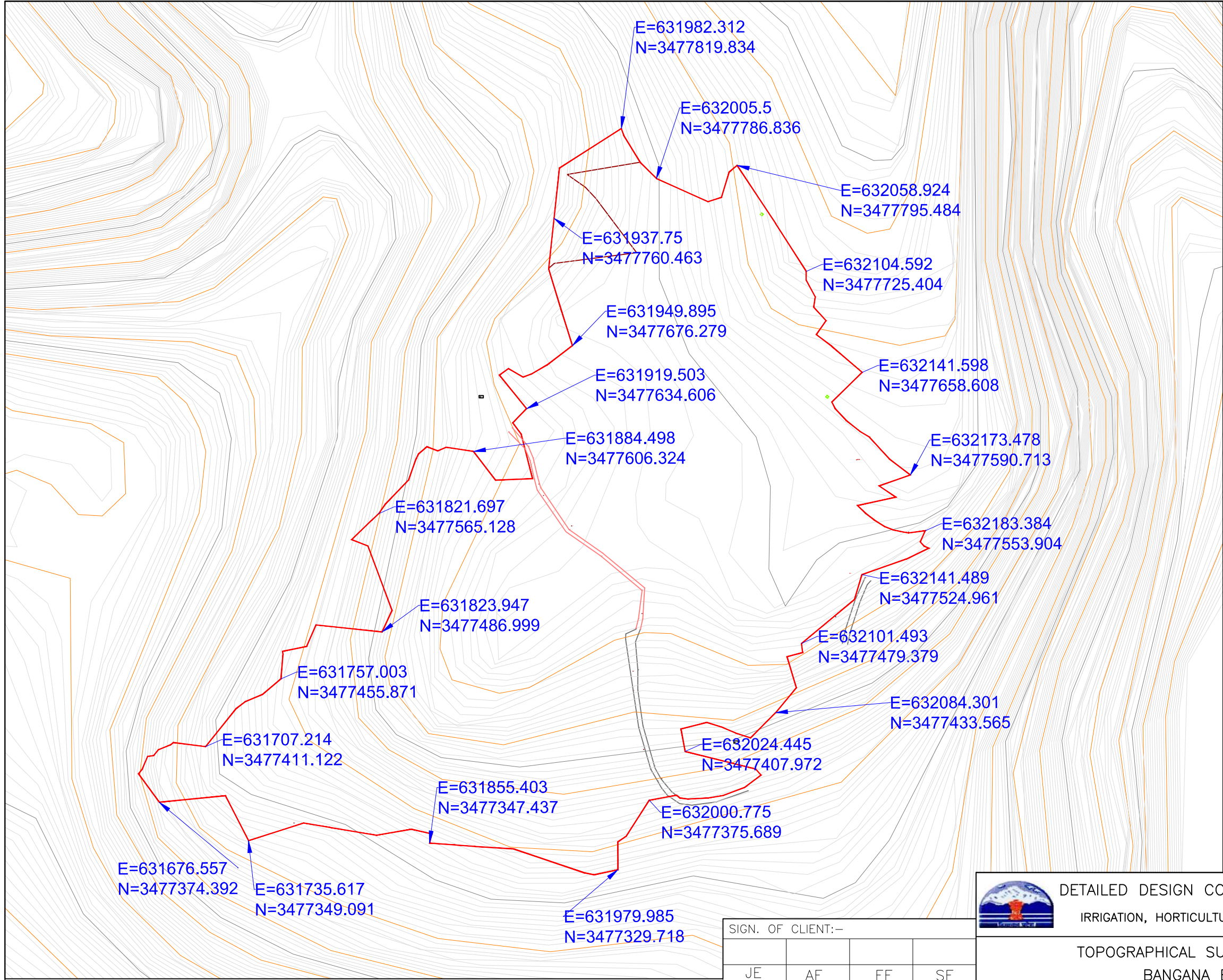
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MUMBAI

SCALE : NTS

DWG NO. TCE.12503A-CV-3005-LM-30034

DC & DISC: DEL-CV

ISSUE P0



LEGEND:-

- 1. BOUNDRY WALL
- 2. BUILDING
- 3. HDPE WATER OUTLET PIPE
- 4. WATER INLET PIPE
- 5. OVERFLOW WATER PIPE
- 6. TREE
- 7. FLD
- 8. BENCH MARK / TBM.
- 9. WATER FLOW



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IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TOPOGRAPHICAL SURVEY OF HANDOLA CLUSTER
BANGANA BLOCK, UNA DISTRICT



TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS DWG NO. TCE.12503A-CV-3005-LM-30035 ISSUE P0

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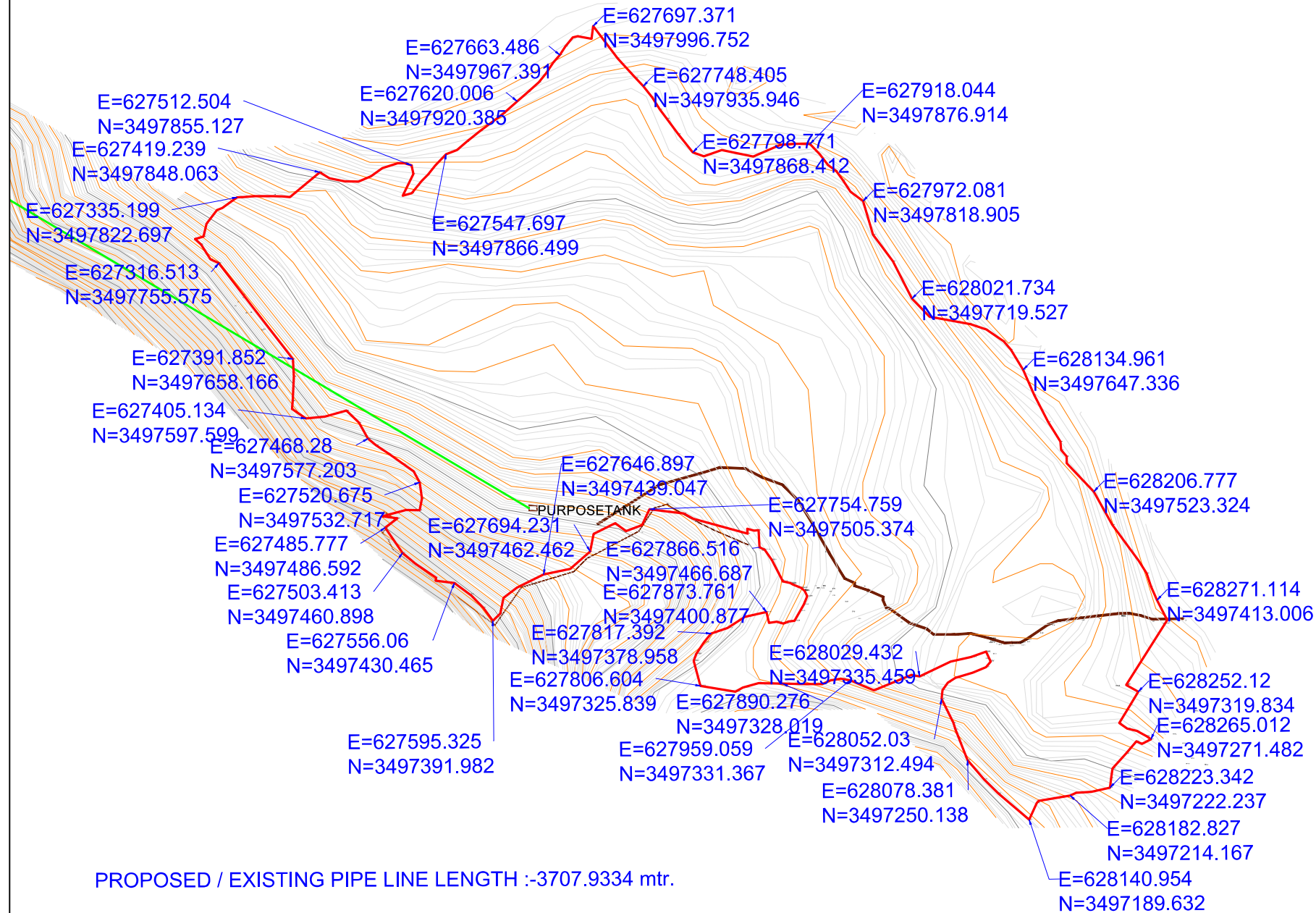
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CLUSTER AREA - 365204.8170 SQM.
36.52 HA.



KEY PLAN

LEGEND:-

1. BOUNDRY WALL
2. BUILDING
3. HDPE WATER OUTLET PIPE
4. WATER INLET PIPE
5. OVERFLOW WATER PIPE
6. TREE
7. FLD
8. BENCH MARK / TBM.
9. WATER FLOW

SIGN.										
PO										
ISSUE										

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IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TOPOGRAPHICAL SURVEY OF NALWARI CLUSTER
BANGANA BLOCK, UNA DISTRICT

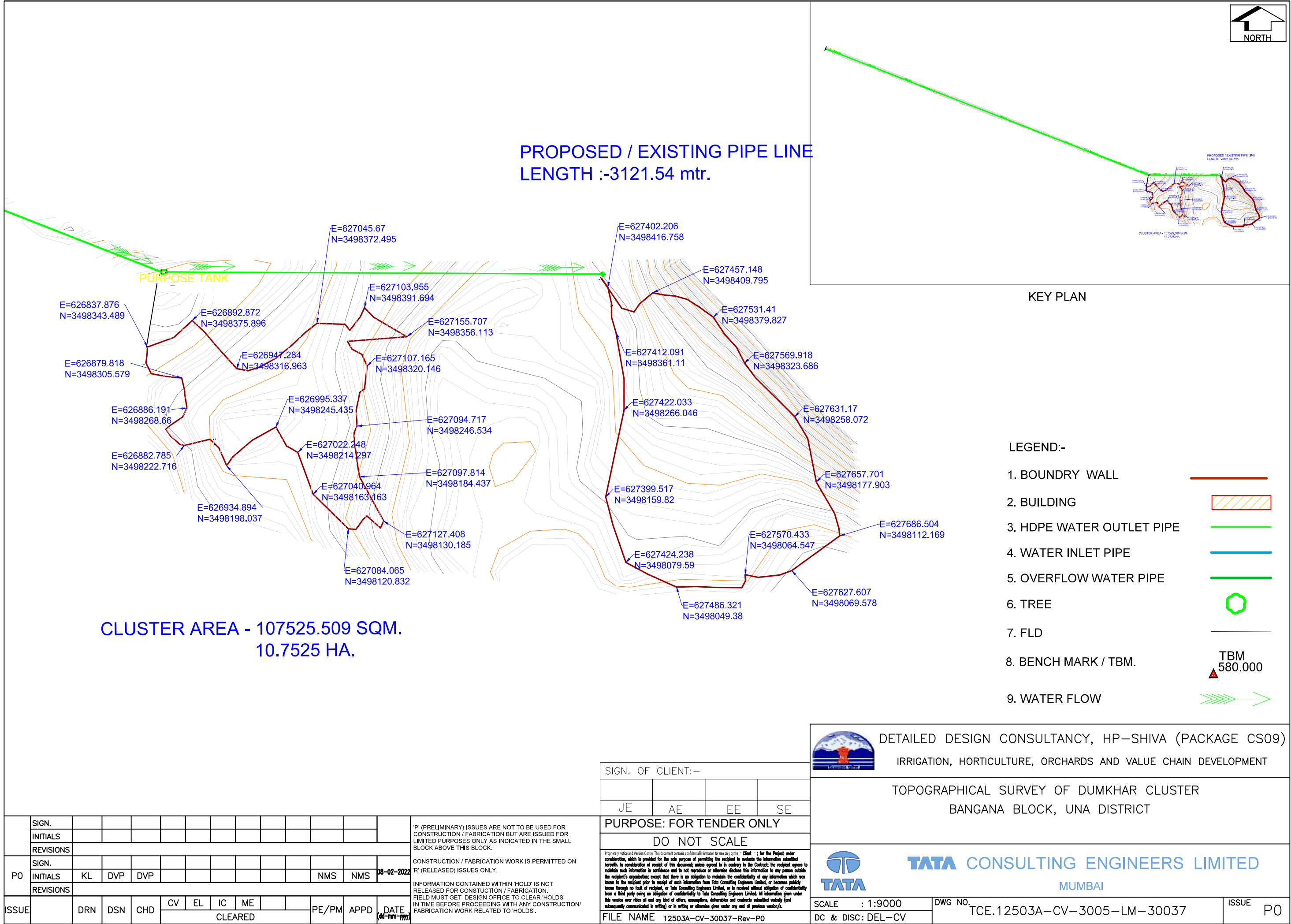


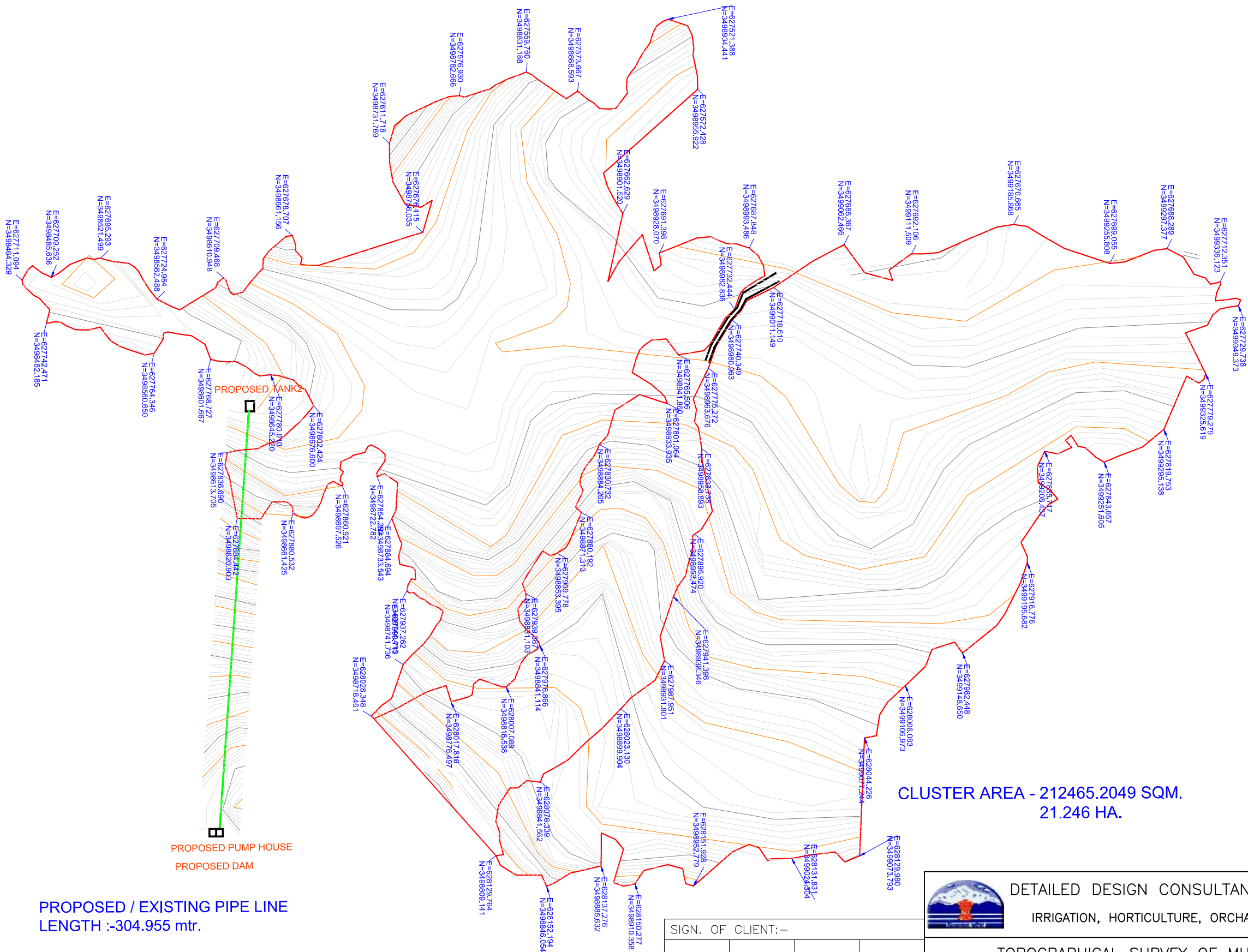
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MUMBAI

SCALE : NTS
DC & DISC: DEL-CV

DWG NO. TCE.12503A-CV-3005-LM-30036

ISSUE P0





- LEGEND:-
- BOUNDRY WALL
 - BUILDING
 - HDPE WATER OUTLET PIPE
 - WATER INLET PIPE
 - OVERFLOW WATER PIPE
 - TREE
 - FLD
 - BENCH MARK / TBM.
 - WATER FLOW

CLUSTER AREA - 212465.2049 SQM.
21.246 HA.

PROPOSED / EXISTING PIPE LINE
LENGTH :-304.955 mtr.

SIGN.										
INITIALS										
REVISIONS										
PO	SIGN.									
	INITIALS	KL	DVP	DVP				NMS	NMS	08-02-2022
ISSUE	REVISIONS									
		DRN	DSN	CHD	CV	EL	IC	ME	PE/PM	APPD
CLEARED										DATE
										(dd-mm-yyyy)

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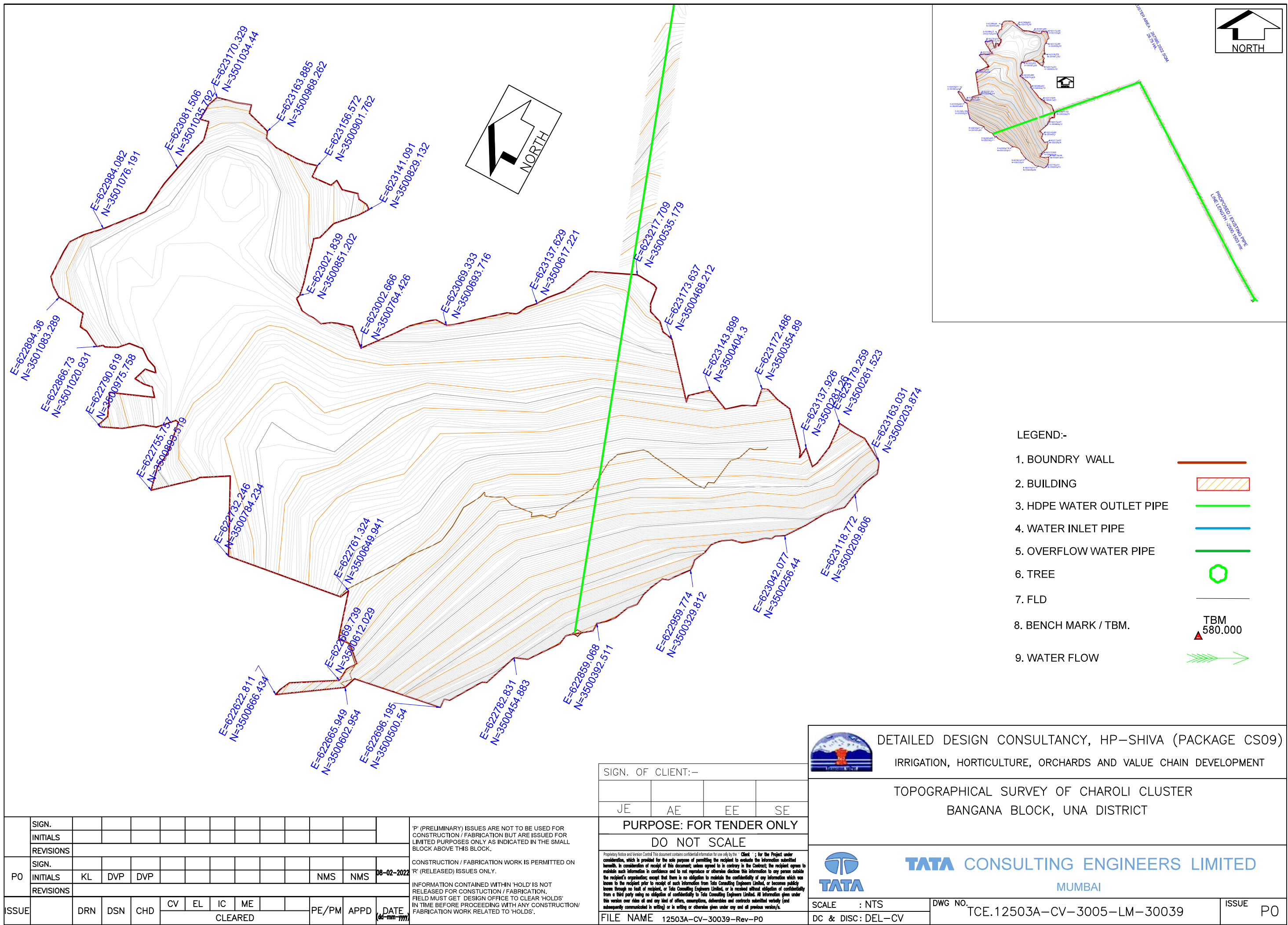
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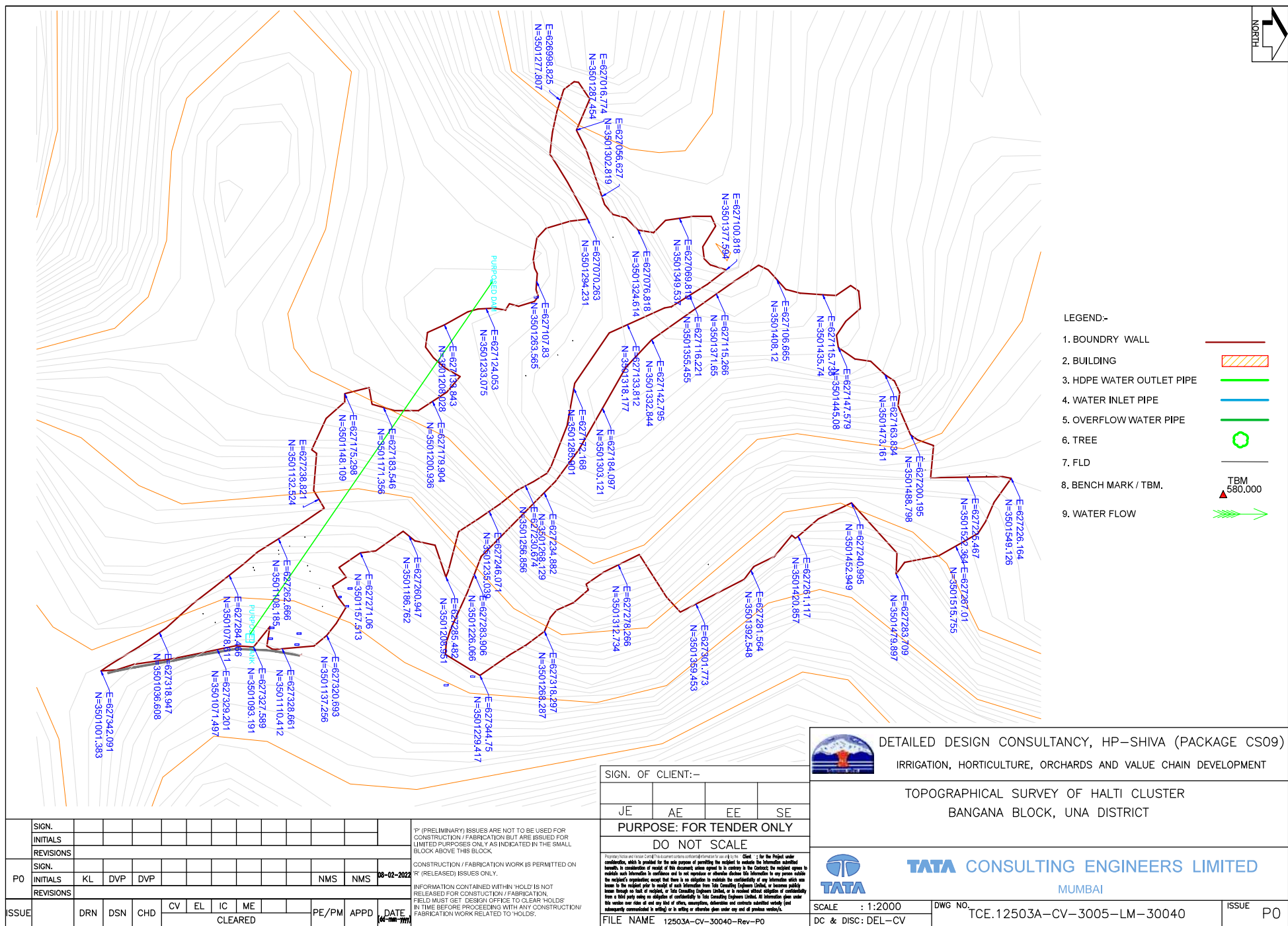
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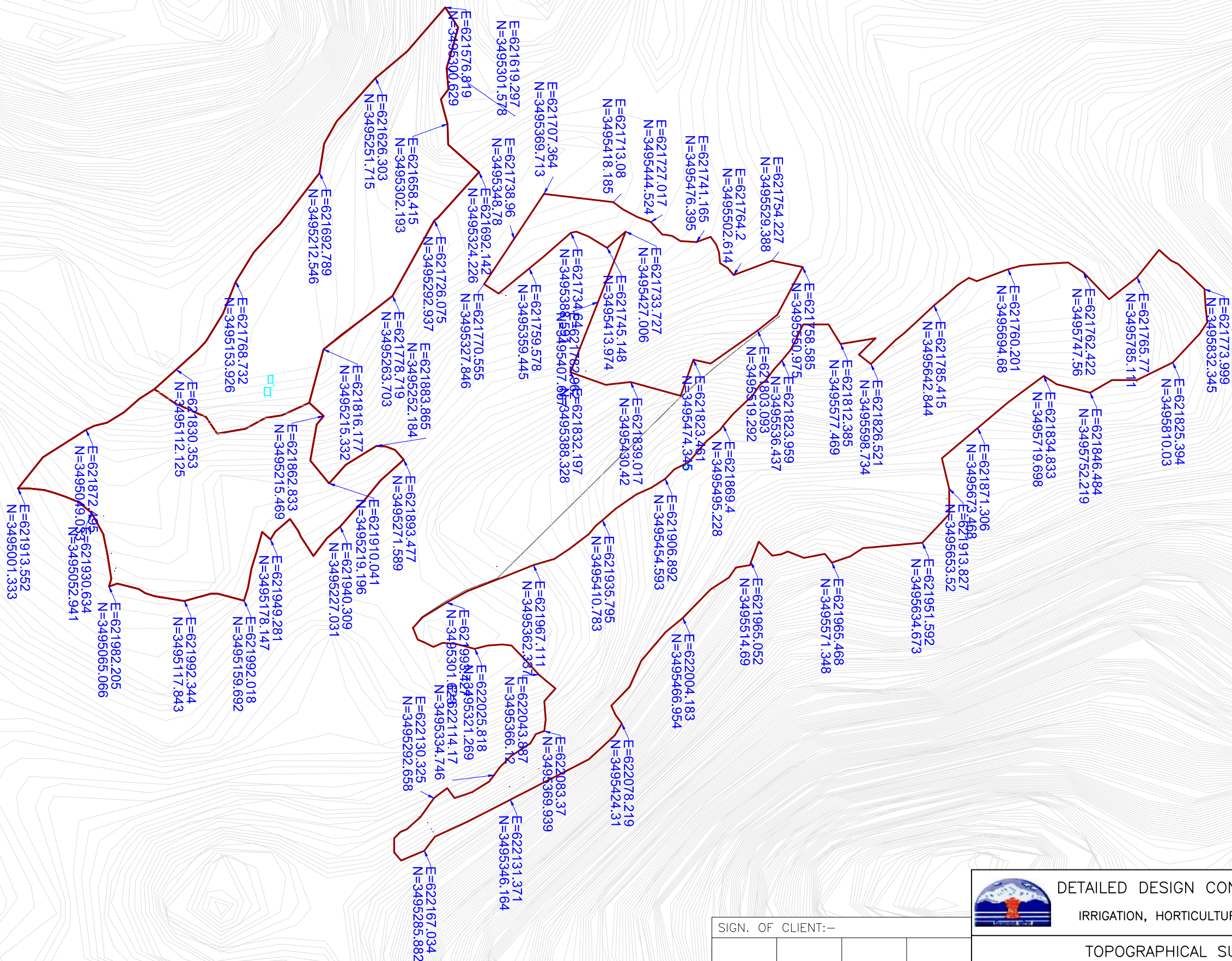
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FILE NAME	12503A-CV-30038-Rev-P0		

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		IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT			
TOPOGRAPHICAL SURVEY OF MUCHALI-1 & 2 CLUSTER					
BANGANA BLOCK, UNA DISTRICT					
		TATA CONSULTING ENGINEERS LIMITED			
		MUMBAI			
SCALE	: 1:3000	DWG NO.	TCE.12503A-CV-3005-LM-30038		
DC & DISC:	DEL-CV	ISSUE	P0		

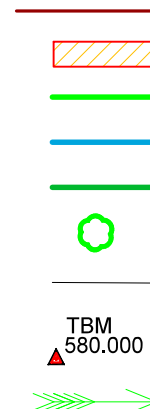






LEGEND:-

1. BOUNDARY WALL
2. BUILDING
3. HDPE WATER OUTLET PIPE
4. WATER INLET PIPE
5. OVERFLOW WATER PIPE
6. TREE
7. FLD
8. BENCH MARK / TBM.
9. WATER FLOW



DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)
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TOPOGRAPHICAL SURVEY OF KATHOH CLUSTER
BANGANA BLOCK, UNA DISTRICT



TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE	: NTS
DC & DISC	: DEL

DWG NO.	TCE.12503A-CV-3005-LM-30041
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ISSUE	PC
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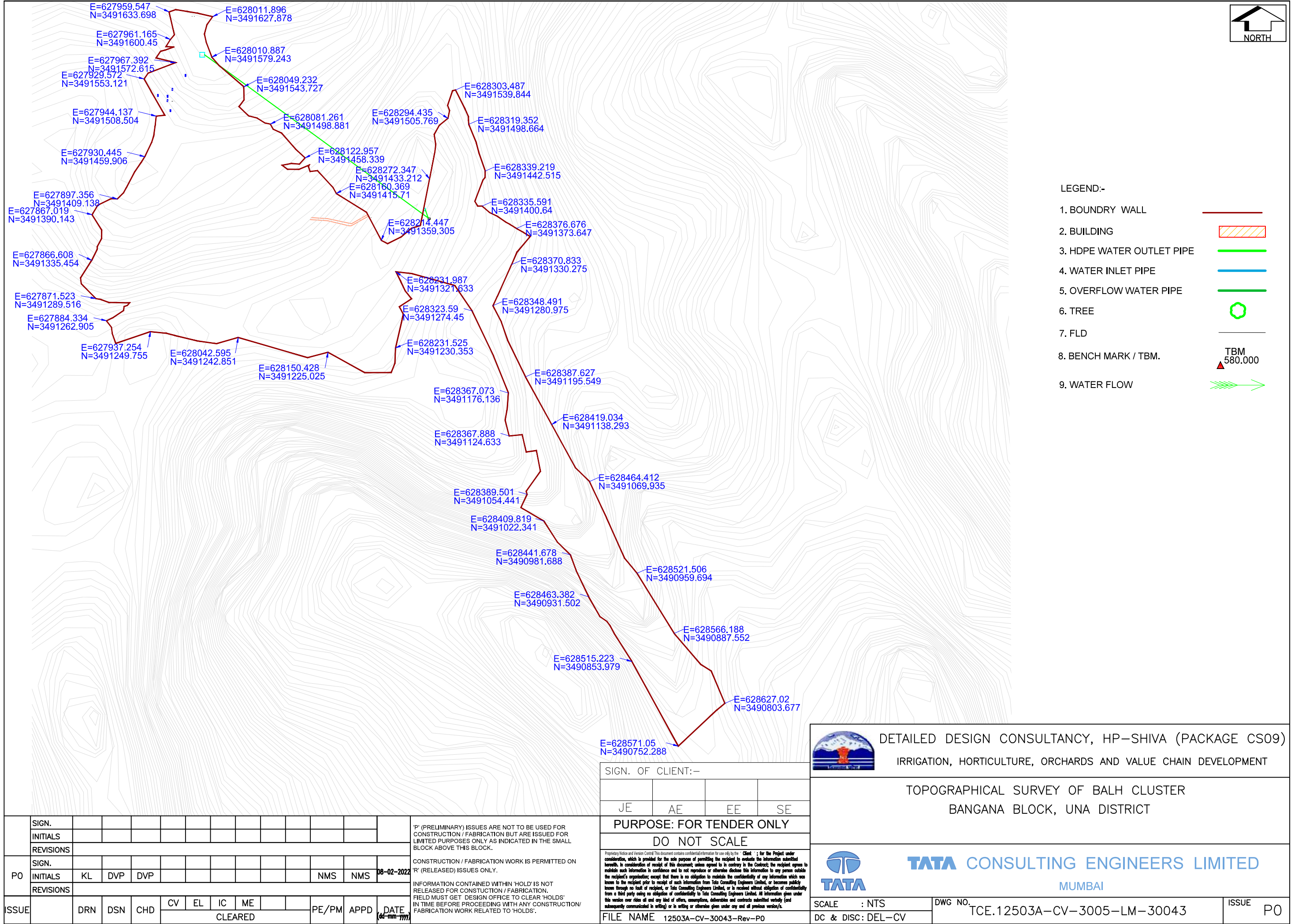
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	REVISIONS												
PO	SIGN.												
	INITIALS	KL	DVP	DVP							NMS	NMS	08-02-2022
	REVISIONS												
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd-mm-yyyy)
					Cleared								



SIGN.												
PO	SIGN.											
	INITIALS	KL	DVP	DVP						NMS	NMS	08-02-2022
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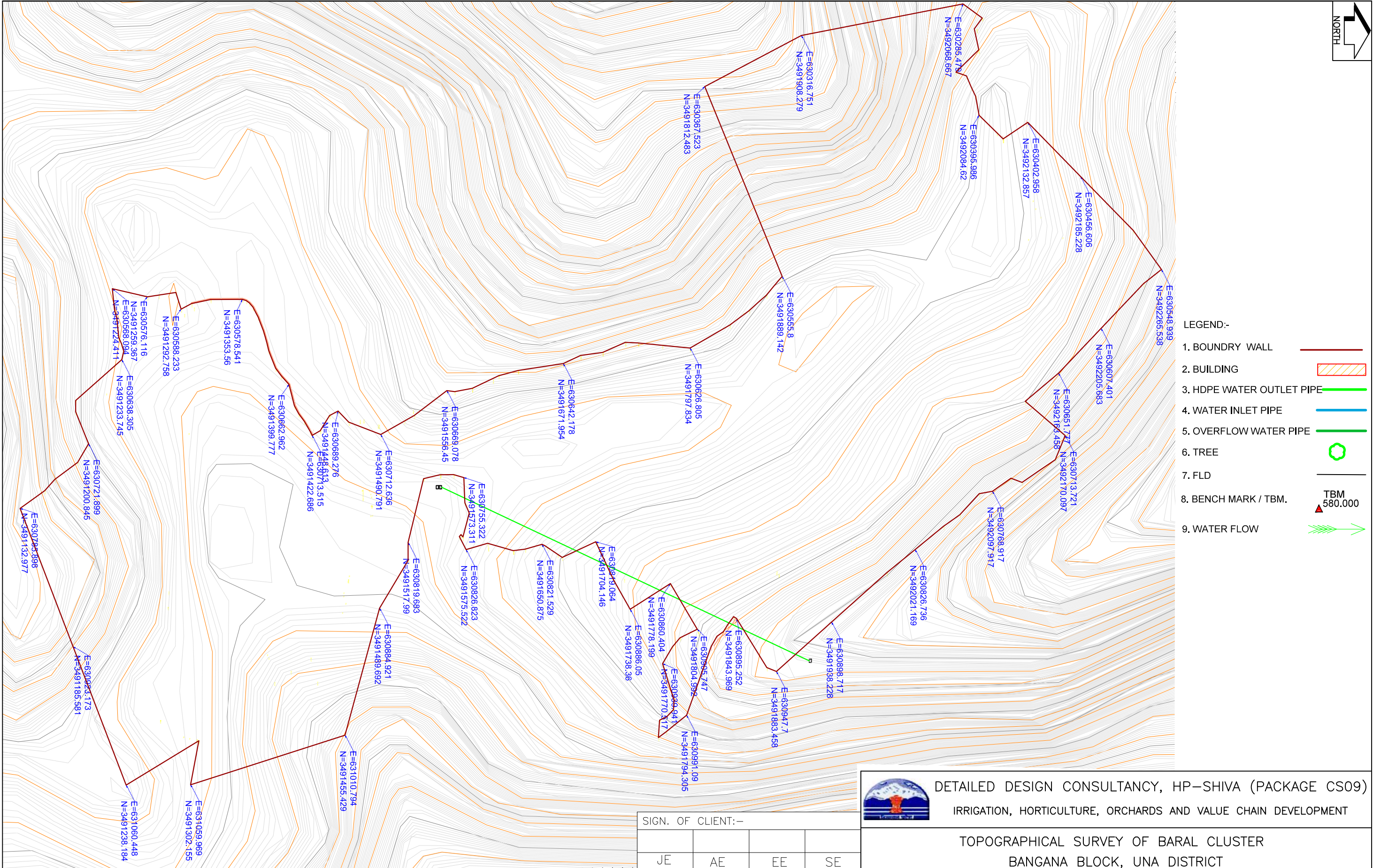
DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)
IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TOPOGRAPHICAL SURVEY OF BALH CLUSTER
BANGANA BLOCK, UNA DISTRICT



TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A-CV-3005-LM-30043	ISSUE P0
DC & DISC: DEL-CV		



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FILE NAME 12503A-CV-30044-Rev-P0			



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TOPOGRAPHICAL SURVEY OF BARAL CLUSTER
BANGANA BLOCK, UNA DISTRICT



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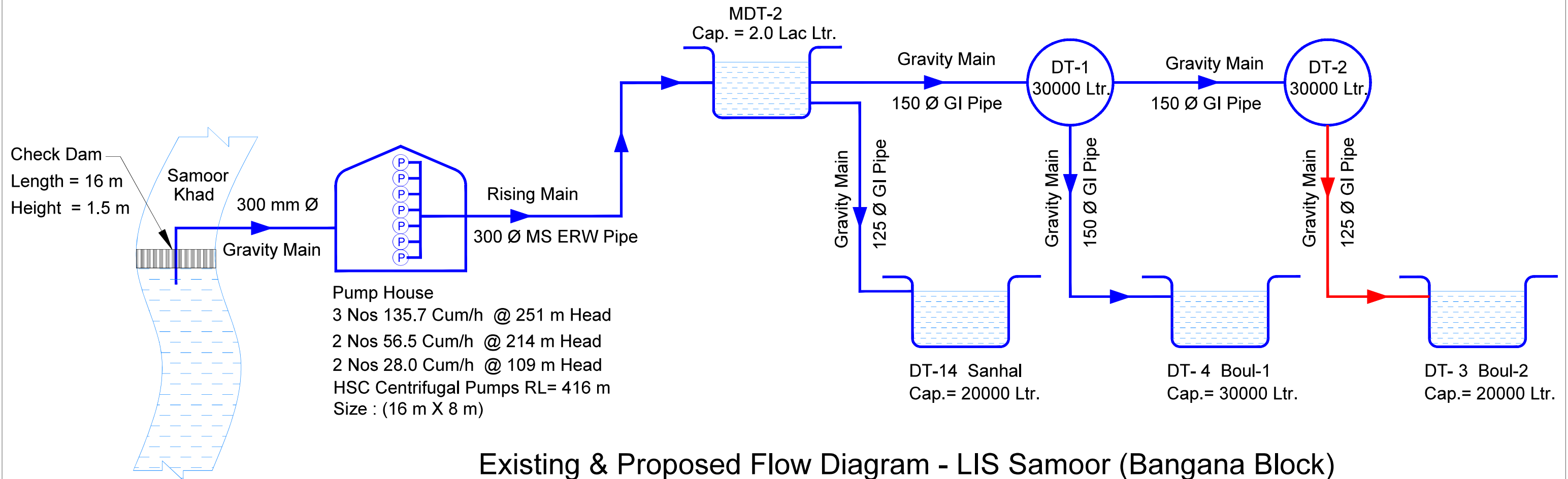
SCALE : NTS
DC & DISC: DEL-CV

DWG NO. TCE.12503A-CV-3005-LM-30044

ISSUE P0

Legend:-

1. Proposed 
2. Existing 
3. Source 
4. MDT Main Distribution Tank
5. DT Distribution Tank



Existing & Proposed Flow Diagram - LIS Samoor (Bangana Block)

[illegible]

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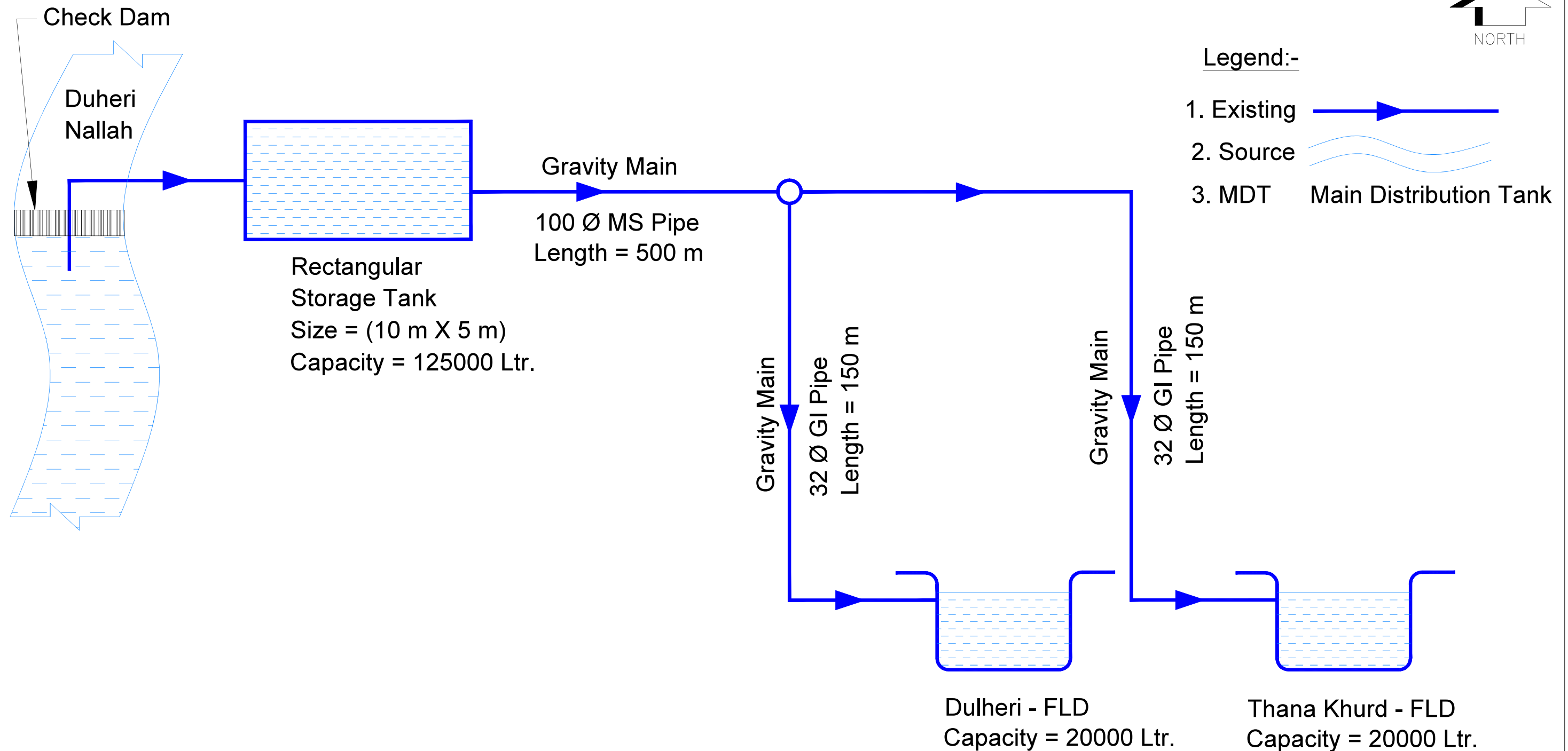
DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)
IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

FLOW DIAGRAM OF EXISTING LIS SAMOOR
(SANHAL,BOUL-1 & BOUL-2 CLUSTER)
BANGANA BLOCK, UNA DISTRICT



TATA CONSULTING ENGINEERS LIMITED
MUMBAI

Scale	: NTS	DWG NO.	TCE.12503A-CV-3082-FD-30045	ISSUE	P1
1	PC & DISC: DEI - CV				



Existing Flow Diagram - LIS Dulheri Rajputan & Thana Khurd (Bangana Block)

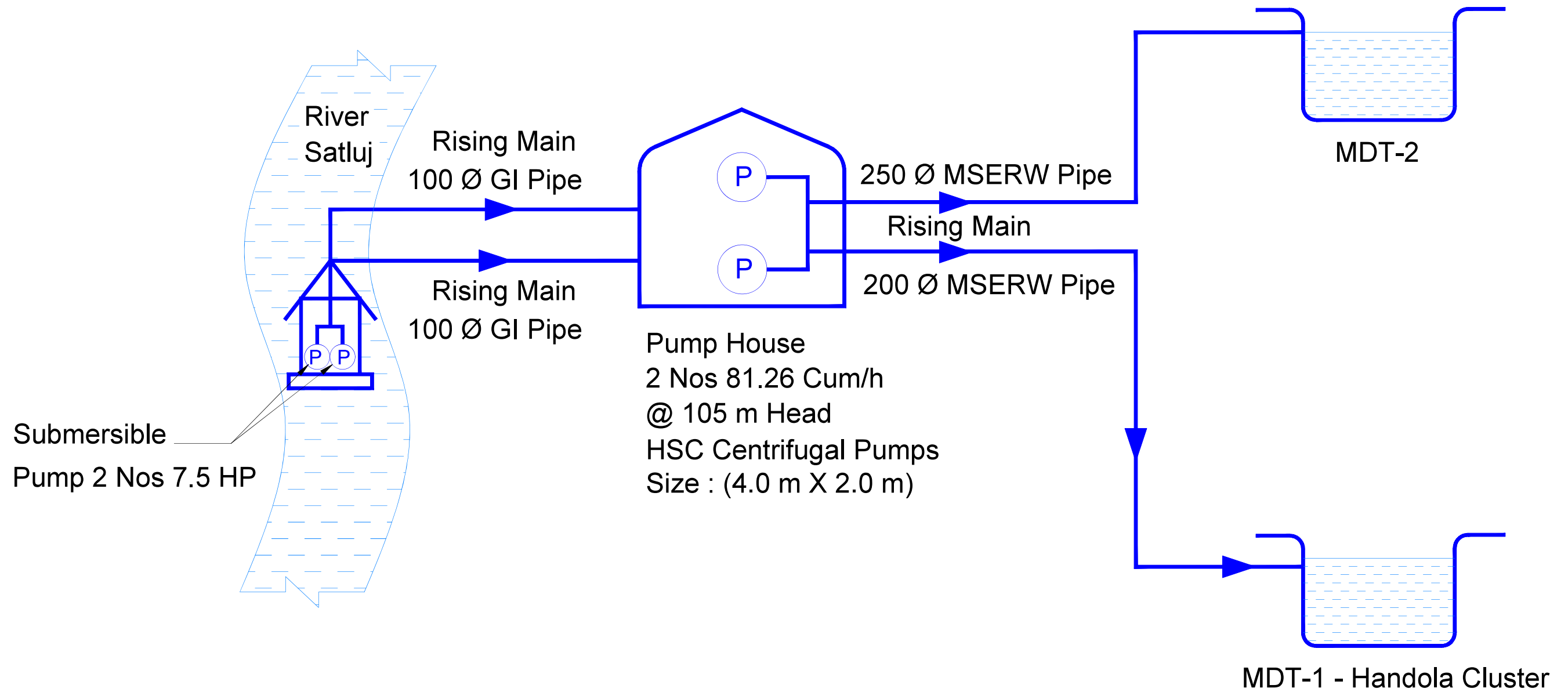
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FLOW DIAGRAM OF EXISTING LIS DULHERI RAJPUTAN & THANA KHURD BANGANA BLOCK, UNA DISTRICT					
		TATA CONSULTING ENGINEERS LIMITED MUMBAI			
SCALE : NTS DC & DISC: DEL-CV		DWG NO. TCE.12503A-CV-3082-FD-30046			ISSUE PO



Legend:-

1. Existing 
2. Source 
3. MDT 

	SIGN.													
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	REVISIONS													
PO	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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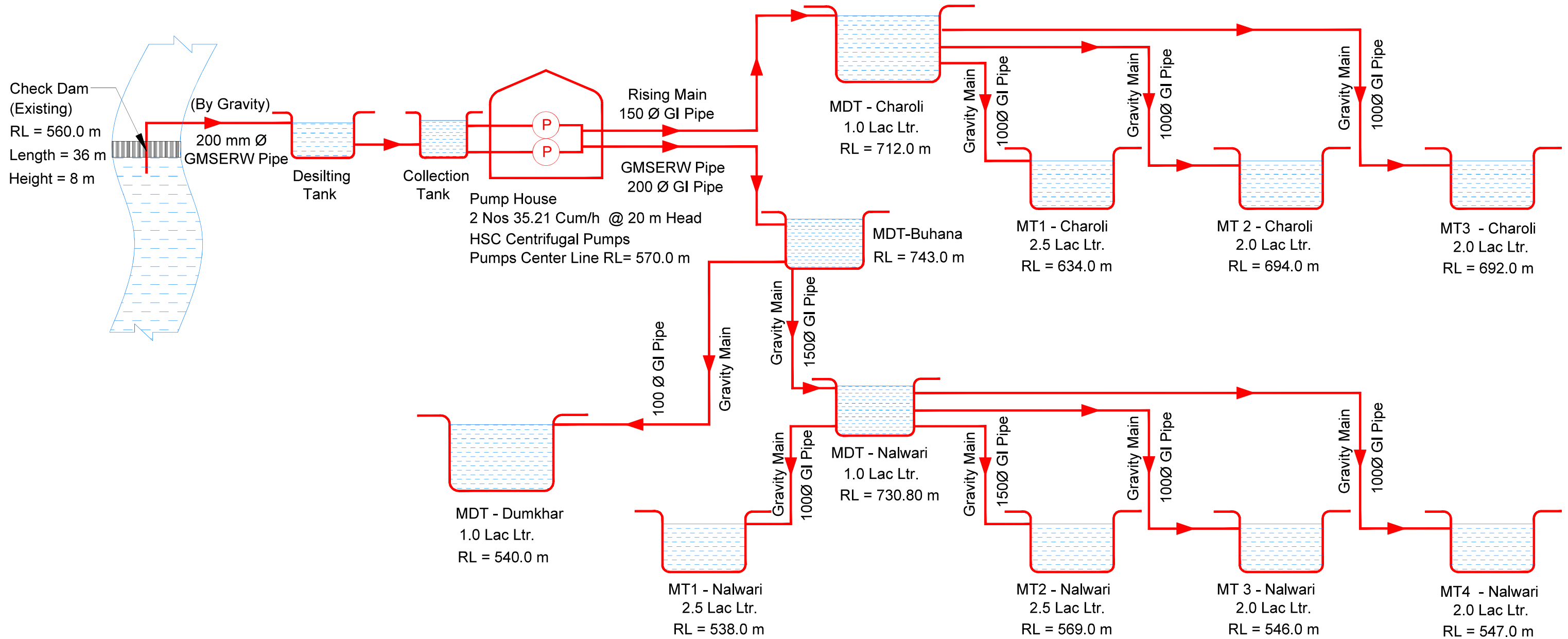
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FILE NAME 12503A-CV-30047-Rev-P0



Legend:-

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



Proposed Flow Diagram - LIS Chapla Dam, CCA - 74.03 Ha (Bangana Block)

[illegible]

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IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

FLOW DIAGRAM OF PROPOSED LIS CHAPLA DAM
(NALWARI, DUMKHAR, Charoli)
BANGANA BLOCK, UNA DISTRICT



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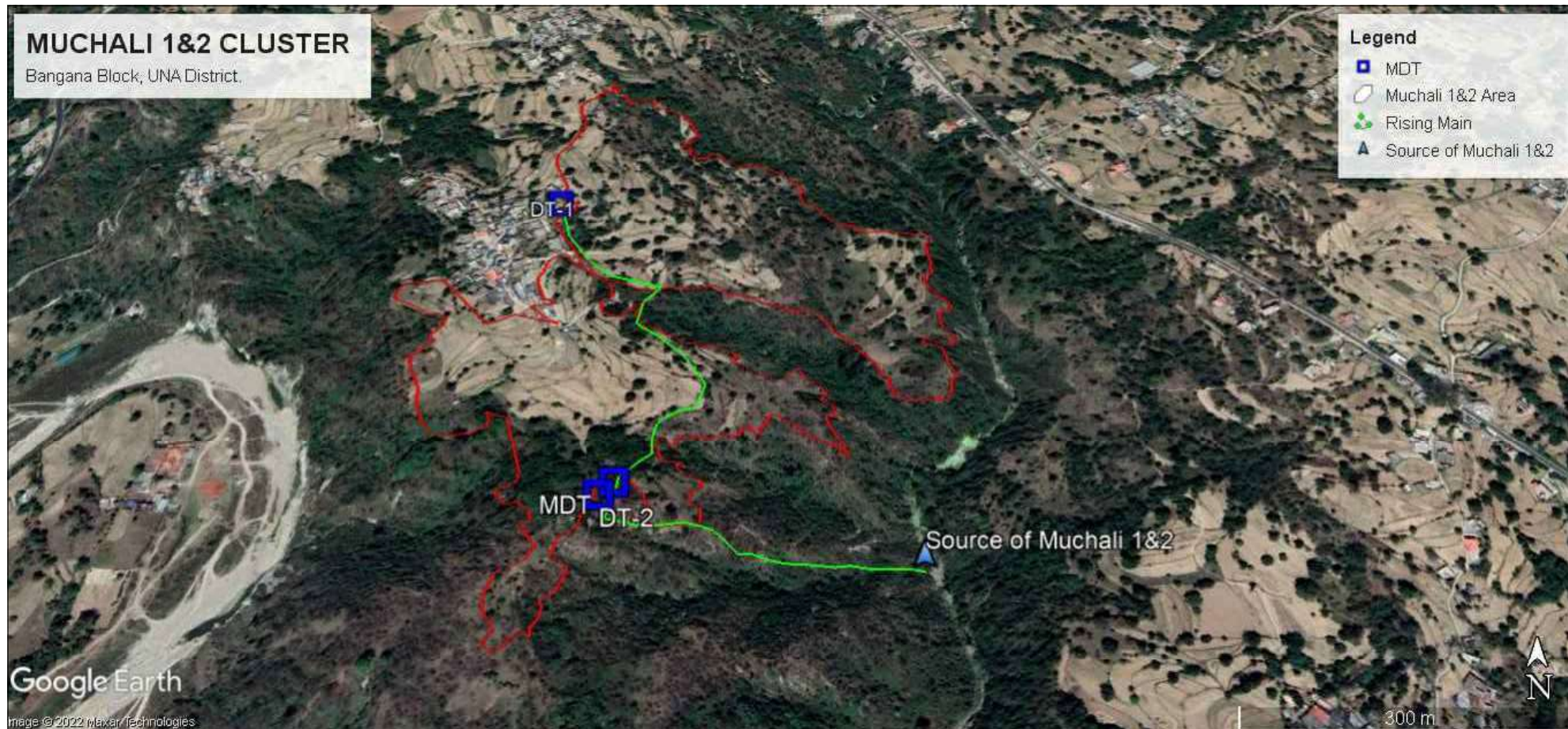
SCALE	: NTS
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DWG NO.

10. TCE.12503A-CV-3082-FD-30048

ISSUE	P1
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Bangana Block, UNA District.



Modular Tank

Check Dam (Existing)
RL = 517.0 m

125 mm Ø GI Pipe

Desilting Tank
RL = 535.0 m

Collection Tank

Pump House
2 Nos 27.96 Cum/h @ 110 m Head
HSC Centrifugal Pumps
Pumps Center Line RL = 527.0 m

Rising Main
125 mm Ø GI Pipe

MDT - Muchali
1.0 Lac Ltr.
RL = 623.0 m

Gravity Main
100 Ø GI Pipe

MT1 - Muchali-1
2.5 Lac Ltr.
RL = 608.0 m

MT2 - Muchali-2
0.50 Lac Ltr.
RL = 612.0 m

Proposed Flow Diagram - LIS Muchali 1 & 2 CCA - 21.25 Ha (Bangana Block)

Proposed Flow Diagram - LIS Muchali 1 & 2 CCA - 21.25 Ha (Bangana Block)

P1	SIGN.													27-05-2022
	INITIALS	BSN	DG	DVB								MK	DK	
	REVISIONS	AS PER CLIENT REQUIREMENT												
P0	SIGN.													16-04-2022
	INITIALS	BSN	DG	DVB								MK	DK	
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ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd-mm-yyyy)	
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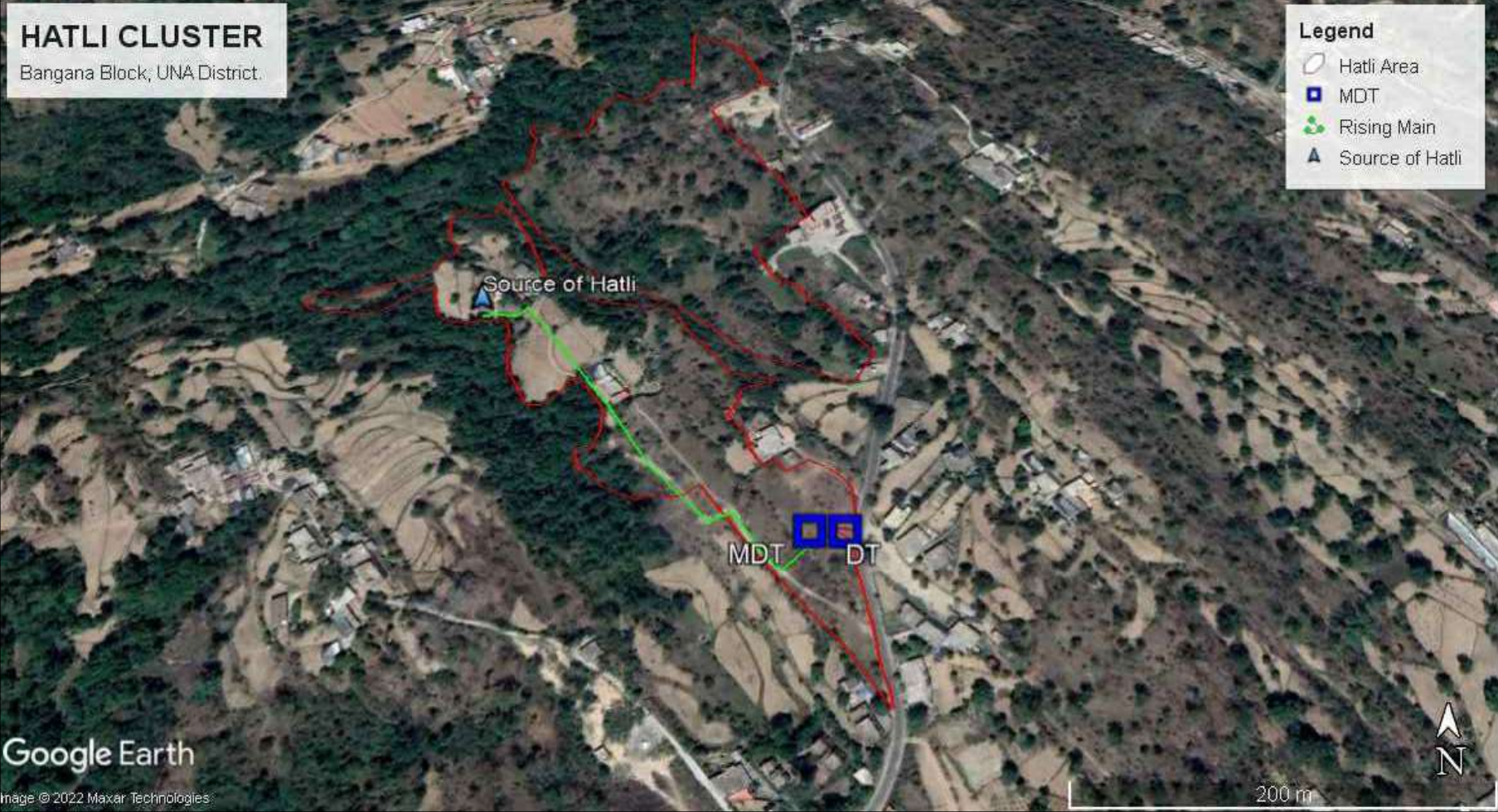
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FLOW DIAGRAM OF PROPOSED LIS MUCHALI 1 & 2 BANGANA BLOCK, UNA DISTRICT			
	TATA CONSULTING ENGINEERS LIMITED MUMBAI		
SCALE : NTS DC & DISC: DEL-CV	DWG NO. TCE.12503A-CV-3082-FD-30049		ISSUE P 1



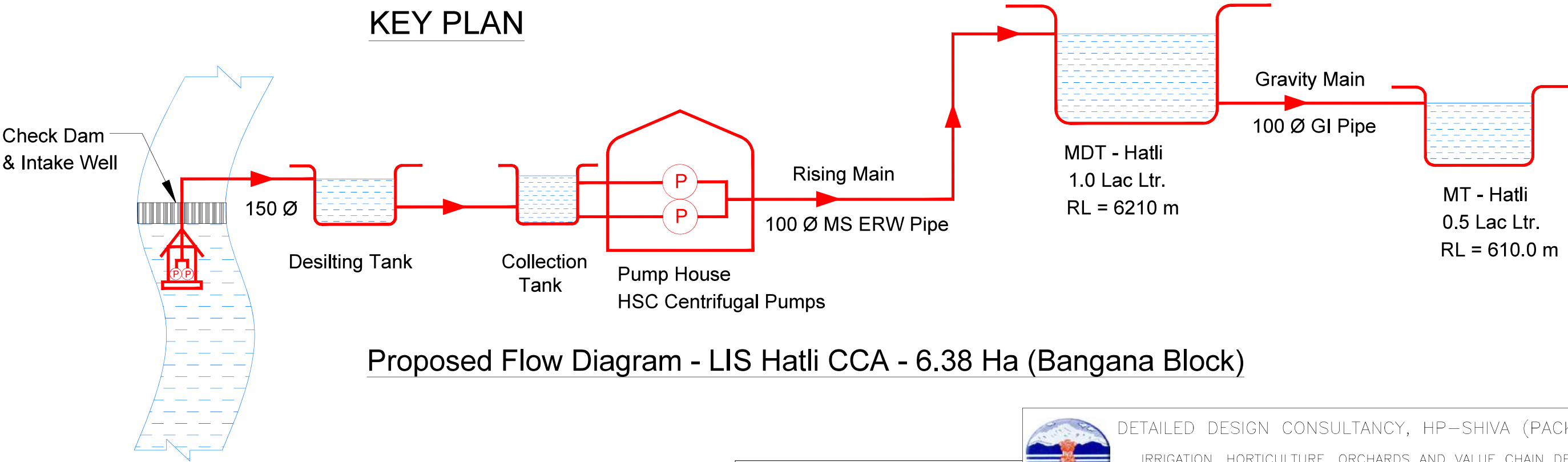
Legend:-

1. Proposed
2. Source
3. MDT

Main Distribution Tank
4. MT

Modular Tank

KEY PLAN



Proposed Flow Diagram - LIS Hatli CCA - 6.38 Ha (Bangana Block)

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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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