Government of Himachal Pradesh

Jal Shakti Vibhag

Office of Executive Engineer, Jal Shakti Division Thural, District Kangra (HP)

No. EE/JSVD/WA-I/Shiva Project/ Tender/ 2022- 21410-20 **Dated :-14.02.2023**

Name of work :-- **Providing Irrigation Facility under HP SHIVA Project for Baijnath, Bhawarna, Lambagoan, Sullah and Panchrukhi Blocks, District Kangra (Himachal Pradesh)**.

Addendum-2

S No.	Reference Section and clause No	Existing Provisions	Modified to
1.	S. No. 7 (e), IFB	**(e)The bidders are required to submit the bid documents fees (Rs. 10000/-) only through online payment Gateway on the online tender website https://hptenders.gov.in in favor of Executive Engineer cum Project Manager Jal Shakti Vibhag Division Thural Himachal Pradesh.**	**(e) The bidders are required to submit the "Bid Document Fee" (Rs. 10, 000) either through offline mode in the form of a demand draft or through online mode (RTGS / NEFT) pledged in favour of Executive Engineer, Jal Shakti Vibhag, Division Thural Himachal Pradesh, on or before the bid submission deadline given in point 7 (b) above.**
2.	ITB 19.1, Section II	The Bidder shall furnish a bid security in the amount of Rs. 58,17,000 (Rupees Fifty-Eight Lakh seventeen Thousand Only) in form of Bank Guarantee (in the format given in section 4)/ **Fixed Deposit Receipt (FDR) pledged in favour of Executive Engineer cum Project Manager, Jal Shakti Vibhag, Division Thural, Himachal Pradesh.**	The Bidder shall furnish a bid security in the amount of Rs. 58,17,000 (Rupees Fifty Eight Lakh seventeen Thousand Only) in form of Bank Guarantee (in the format given in section 4) **/ Fixed Deposit Receipt (FDR) / Online through RTGS / NEFT, pledged in favour of Executive Engineer, Jal Shakti Vibhag, Division Thural, Himachal Pradesh.**
3.	ITB 22.1, Section II		Add following at the last: In case of offline mode of bid security and Bid document fee, the original copy of bid security and Bid document fee must be submitted in original in office of the Executive Engineer, Jal Shakti Vibhag, Division Thural, Himachal Pradesh not later than the bid submission deadline indicated in IFB/ ITB 22.1.

Government of Himachal Pradesh

Jal Shakti Vibhag

Office of Executive Engineer, Jal Shakti Division Thural, District Kangra (HP)

S No.	Reference Section and clause No	Existing Provisions	Modified to
4.	Tender Drawings		Revised Tender drawings have been uploaded along with this addendum.

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(Er. Sarwan Kumar Thakur)

Executive Engineer cum Project

Manager, Jal Shakti Vibhag, Division

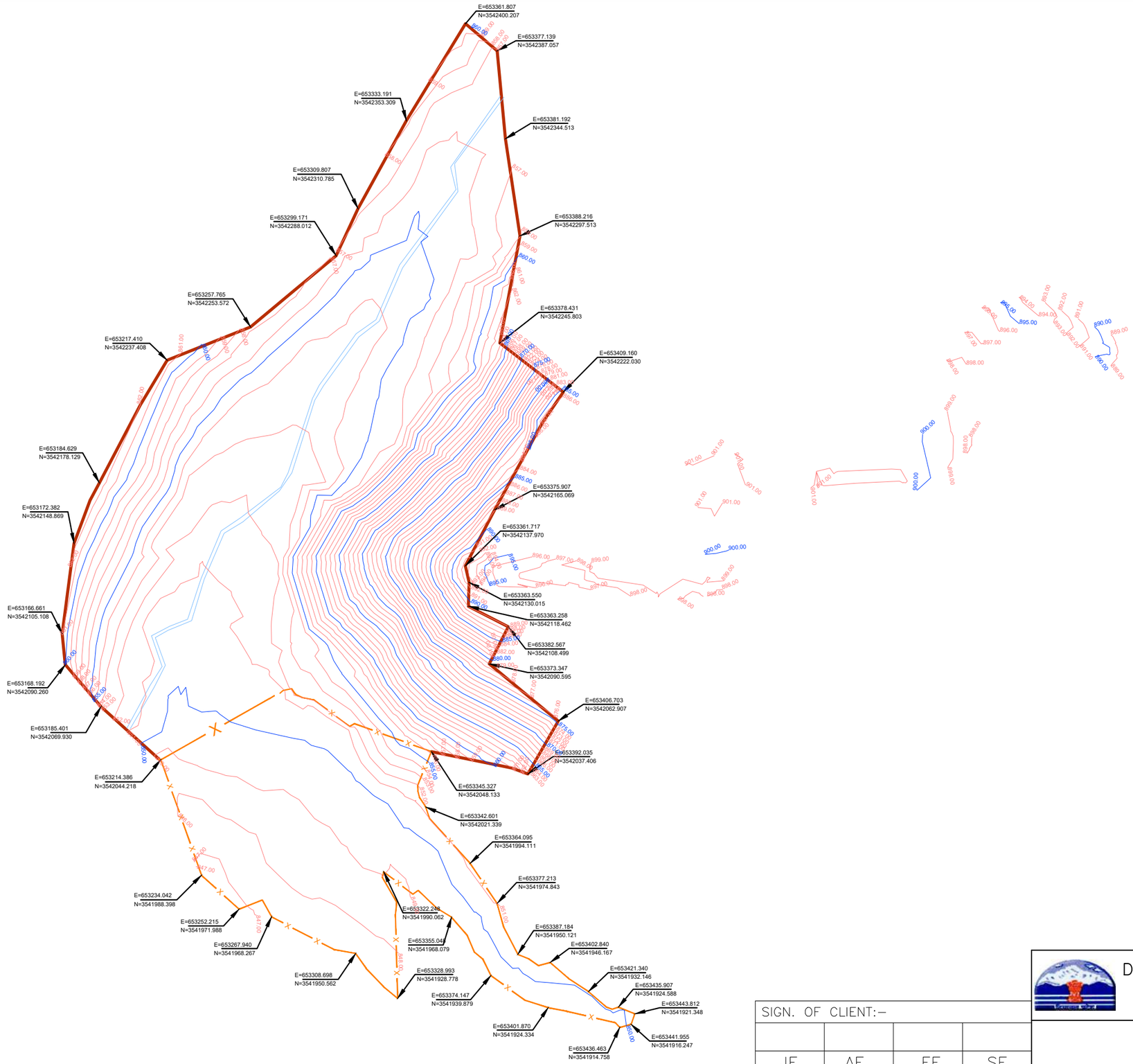
Thural (HP)

REVISED DRAWING LIST - KANGRA DISTRICT (PACKAGE -9)					
S.NO.	DRAWING. NO.	SOFT COPY FILE NAME	TITLE	SIZE	ISSUE
1	TCE.12503A-CV-3005-LM-38001	12503A-CV-38001-Rev-P0	TOPOGRAPHICAL SURVEY FOR LANGHU-1 CLUSTER	A3	P0
2	TCE.12503A-CV-3005-LM-38002	12503A-CV-38002-Rev-P0	TOPOGRAPHICAL SURVEY FOR MANGHOTA CLUSTER	A3	P0
3	TCE.12503A-CV-3005-LM-38003	12503A-CV-38003-Rev-P0	TOPOGRAPHICAL SURVEY FOR LANGHU-2 CLUSTER	A3	P0
4	TCE.12503A-CV-3005-LM-38004	12503A-CV-38004-Rev-P0	TOPOGRAPHICAL SURVEY FOR KUDAIL CLUSTER	A3	P0
5	TCE.12503A-CV-3005-LM-38006	12503A-CV-38006-Rev-P0	TOPOGRAPHICAL SURVEY FOR UPPER BHET CLUSTER	A3	P0
6	TCE.12503A-CV-3005-LM-38007	12503A-CV-38007-Rev-P0	TOPOGRAPHICAL SURVEY FOR THANDOL-1 CLUSTER	A3	P0
7	TCE.12503A-CV-3005-LM-38008	12503A-CV-38008-Rev-P0	TOPOGRAPHICAL SURVEY FOR GHAR CLUSTER	A3	P0
8	TCE.12503A-CV-3005-LM-38009	12503A-CV-38009-Rev-P0	TOPOGRAPHICAL SURVEY FOR MALAHU I CLUSTER	A3	P0
9	TCE.12503A-CV-3005-LM-38010	12503A-CV-38010-Rev-P0	TOPOGRAPHICAL SURVEY FOR MALAHU II CLUSTER	A3	P0
10	TCE.12503A-CV-3005-LM-38011	12503A-CV-38011-Rev-P0	TOPOGRAPHICAL SURVEY FOR SIDHPUR CLUSTER	A3	P0
11	TCE.12503A-CV-3005-LM-38012	12503A-CV-38012-Rev-P0	TOPOGRAPHICAL SURVEY FOR CHARTKHOLA CLUSTER	A3	P0
12	TCE.12503A-CV-3005-LM-38013	12503A-CV-38013-Rev-P0	TOPOGRAPHICAL SURVEY FOR LUDHRAN 1 & 2 CLUSTER	A3	P0
13	TCE.12503A-CV-3005-LM-38014	12503A-CV-38014-Rev-P0	TOPOGRAPHICAL SURVEY FOR MALDOAN CLUSTER	A3	P0
14	TCE.12503A-CV-3005-LM-38015	12503A-CV-38015-Rev-P0	TOPOGRAPHICAL SURVEY FOR JANGAL CLUSTER	A3	P0
15	TCE.12503A-CV-3005-LM-38016	12503A-CV-38016-Rev-P0	TOPOGRAPHICAL SURVEY FOR ODRI CLUSTER	A3	P0
16	TCE.12503A-CV-3005-LM-38017	12503A-CV-38017-Rev-P0	TOPOGRAPHICAL SURVEY FOR KOTLU CLUSTER	A3	P0
17	TCE.12503A-CV-3005-LM-38018	12503A-CV-38018-Rev-P0	TOPOGRAPHICAL SURVEY FOR KATHLA CLUSTER	A3	P0
18	TCE.12503A-CV-3005-LM-38019	12503A-CV-38019-Rev-P0	TOPOGRAPHICAL SURVEY FOR THANPAL/CHAMBI CLUSTER	A3	P0
19	TCE.12503A-CV-3005-LM-38020	12503A-CV-38020-Rev-P0	TOPOGRAPHICAL SURVEY FOR TREHAL CLUSTER	A3	P0
20	TCE.12503A-CV-3005-LM-38021	12503A-CV-38021-Rev-P0	TOPOGRAPHICAL SURVEY FOR AGOZAR CLUSTER	A3	P0
21	TCE.12503A-CV-3005-LM-38022	12503A-CV-38022-Rev-P0	TOPOGRAPHICAL SURVEY FOR RAJHOT-1 CLUSTER	A3	P0
22	TCE.12503A-CV-3005-LM-38023	12503A-CV-38023-Rev-P0	TOPOGRAPHICAL SURVEY FOR LADOH-1 CLUSTER	A3	P0
23	TCE.12503A-CV-3005-LM-38024	12503A-CV-38024-Rev-P0	TOPOGRAPHICAL SURVEY FOR LADOH-2 CLUSTER	A3	P0
24	TCE.12503A-CV-3005-LM-38025	12503A-CV-38025-Rev-P0	TOPOGRAPHICAL SURVEY FOR BANURI CLUSTER	A3	P0
25	TCE.12503A-CV-3005-LM-38027	12503A-CV-38027-Rev-P0	TOPOGRAPHICAL SURVEY FOR SALIANA CLUSTER	A3	P0
26	TCE.12503A-CV-3005-LM-38028	12503A-CV-38028-Rev-P0	TOPOGRAPHICAL SURVEY FOR MOLICHAK CLUSTER	A3	P0
27	TCE.12503A-CV-3005-LM-38029	12503A-CV-38029-Rev-P0	TOPOGRAPHICAL SURVEY FOR JANDPUR CLUSTER	A3	P0
28	TCE.12503A-CV-3005-LM-38030	12503A-CV-38030-Rev-P0	TOPOGRAPHICAL SURVEY FOR DHEERA-1 & 2 CLUSTER	A3	P0
29	TCE.12503A-CV-3005-LM-38031	12503A-CV-38031-Rev-P0	TOPOGRAPHICAL SURVEY FOR DHEERA-3 CLUSTER	A3	P0
30	TCE.12503A-CV-3005-LM-38032	12503A-CV-38032-Rev-P0	TOPOGRAPHICAL SURVEY FOR CHAINCHADI- KUTHERA CLUSTER	A3	P0
31	TCE.12503A-CV-3005-LM-38033	12503A-CV-38033-Rev-P0	TOPOGRAPHICAL SURVEY FOR PURBA CLUSTER	A3	P0
32	TCE.12503A-CV-3005-LM-38034	12503A-CV-38034-Rev-P0	TOPOGRAPHICAL SURVEY FOR CHANDAR CLUSTER	A3	P0
33	TCE.12503A-CV-3005-LM-38035	12503A-CV-38035-Rev-P0	TOPOGRAPHICAL SURVEY FOR GAGAL KHAS CLUSTER	A3	P0
34	TCE.12503A-CV-3082-FD-38151	12503A-CV-38151-Rev-P0	FLOW DIAGRAM FOR LIS ON BINWA KHAD - LANGHU1 & 2 AND UPPER BHET CLUSTER	A3	P0
35	TCE.12503A-CV-3082-FD-38152	12503A-CV-38152-Rev-P0	FLOW DIAGRAM FOR LIS MANGHOTA	A3	P0
36	TCE.12503A-CV-3082-FD-38153	12503A-CV-38153-Rev-P0	FLOW DIAGRAM FOR LIS KUDAIL	A3	P0
37	TCE.12503A-CV-3082-FD-38154	12503A-CV-38154-Rev-P0	FLOW DIAGRAM FOR LIS THANDOL	A3	P0
38	TCE.12503A-CV-3082-FD-38155	12503A-CV-38155-Rev-P0	FLOW DIAGRAM FOR LIS GHAR	A3	P0
39	TCE.12503A-CV-3082-FD-38156	12503A-CV-38156-Rev-P0	FLOW DIAGRAM FOR LIS ON MOL KHAD - MALAHU 1 & 2	A3	P0
40	TCE.12503A-CV-3082-FD-38157	12503A-CV-38157-Rev-P0	FLOW DIAGRAM FOR LIS SIDHPUR	A3	P0
41	TCE.12503A-CV-3082-FD-38158	12503A-CV-38158-Rev-P0	FLOW DIAGRAM FOR LIS ON TAHL KHAD - LUDHRAN 1 & 2 AND CHARTKHOLA	A3	P0
42	TCE.12503A-CV-3082-FD-38159	12503A-CV-38159-Rev-P0	FLOW DIAGRAM FOR EXISTING LIS ALAMPUR EXTENSION -MALDOAN & JANGAL CLUSTER	A3	P0
43	TCE.12503A-CV-3082-FD-38160	12503A-CV-38160-Rev-P0	FLOW DIAGRAM FOR EXISTING LIS BANDHUI EXTENSION -ODRI AND KOTLU CLUSTER	A3	P0
44	TCE.12503A-CV-3082-FD-38161	12503A-CV-38161-Rev-P0	FLOW DIAGRAM FOR LIS KATHLA	A3	P0
45	TCE.12503A-CV-3082-FD-38162	12503A-CV-38162-Rev-P0	FLOW DIAGRAM FOR LIS THANPAL/CHAMBI	A3	P0
46	TCE.12503A-CV-3082-FD-38163	12503A-CV-38163-Rev-P0	FLOW DIAGRAM FOR LIS TREHAL	A3	P0

REVISED DRAWING LIST - KANGRA DISTRICT (PACKAGE -9)					
S.NO.	DRAWING. NO.	SOFT COPY FILE NAME	TITLE	SIZE	ISSUE
47	TCE.12503A-CV-3082-FD-38164	12503A-CV-38164-Rev-P0	FLOW DIAGRAM FOR LIS AGOZAR	A3	P0
48	TCE.12503A-CV-3082-FD-38165	12503A-CV-38165-Rev-P0	FLOW DIAGRAM FOR LIS RAJHOT-1	A3	P0
49	TCE.12503A-CV-3082-FD-38166	12503A-CV-38166-Rev-P0	FLOW DIAGRAM FOR LIS LADOH-1	A3	P0
50	TCE.12503A-CV-3082-FD-38167	12503A-CV-38167-Rev-P0	FLOW DIAGRAM FOR LIS LADOH-2	A3	P0
51	TCE.12503A-CV-3082-FD-38168	12503A-CV-38168-Rev-P0	FLOW DIAGRAM FOR LIS BANURI	A3	P0
52	TCE.12503A-CV-3082-FD-38170	12503A-CV-38170-Rev-P0	FLOW DIAGRAM FOR LIS SALIANA	A3	P0
53	TCE.12503A-CV-3082-FD-38171	12503A-CV-38171-Rev-P0	FLOW DIAGRAM FOR LIS MOLICHAK	A3	P0
54	TCE.12503A-CV-3082-FD-38172	12503A-CV-38172-Rev-P0	FLOW DIAGRAM FOR LIS JANDPUR	A3	P0
55	TCE.12503A-CV-3082-FD-38173	12503A-CV-38173-Rev-P0	FLOW DIAGRAM FOR LIS DHEERA-1 & 2	A3	P0
56	TCE.12503A-CV-3082-FD-38174	12503A-CV-38174-Rev-P0	FLOW DIAGRAM FOR LIS DHEERA-3	A3	P0
57	TCE.12503A-CV-3082-FD-38175	12503A-CV-38175-Rev-P0	FLOW DIAGRAM FOR LIS CHAINCHADI- KUTHERA	A3	P0
58	TCE.12503A-CV-3082-FD-38176	12503A-CV-38176-Rev-P0	FLOW DIAGRAM FOR LIS PURBA	A3	P0
59	TCE.12503A-CV-3082-FD-38177	12503A-CV-38177-Rev-P0	FLOW DIAGRAM FOR LIS CHANDAR	A3	P0
60	TCE.12503A-CV-3082-FD-38178	12503A-CV-38178-Rev-P0	FLOW DIAGRAM FOR LIS GAGAL KHAS	A3	P0
61	TCE.12503A-CV-3082-WS-38201	12503A-CV-38201-Rev-P0	NETWORK DRAWING FOR LIS ON BINWA KHAD - LANGHU1 & 2 AND UPPER BHET CLUSTER	A3	P0
62	TCE.12503A-CV-3082-WS-38202	12503A-CV-38202-Rev-P0	NETWORK DRAWING FOR LIS MANGHOTA	A3	P0
63	TCE.12503A-CV-3082-WS-38203	12503A-CV-38203-Rev-P0	NETWORK DRAWING FOR LIS KUDAIL	A3	P0
64	TCE.12503A-CV-3082-WS-38204	12503A-CV-38204-Rev-P0	NETWORK DRAWING FOR LIS THANDOL	A3	P0
65	TCE.12503A-CV-3082-WS-38205	12503A-CV-38205-Rev-P0	NETWORK DRAWING FOR LIS GHAR	A3	P1
66	TCE.12503A-CV-3082-WS-38206	12503A-CV-38206-Rev-P0	NETWORK DRAWING FOR ON MOL KHAD - MALAHU 1 & 2 CLUSTER	A3	P0
67	TCE.12503A-CV-3082-WS-38207	12503A-CV-38207-Rev-P0	NETWORK DRAWING FOR SIDHPUR CLUSTER	A3	P1
68	TCE.12503A-CV-3082-WS-38208	12503A-CV-38208-Rev-P0	NETWORK DRAWING FOR ON TAHL KHAD - LUDHRAN 1 & 2 AND CHARTKHOLA	A3	P0
69	TCE.12503A-CV-3082-WS-38209	12503A-CV-38209-Rev-P0	FLOW DIAGRAM FOR EXISTING FUNCTIONAL LIS ALAMPUR EXTENSION -MALDOAN & JANGAL CLUSTER	A3	P0
70	TCE.12503A-CV-3082-WS-38210	12503A-CV-38210-Rev-P0	FLOW DIAGRAM FOR EXISTING FUNCTIONAL LIS BANDHUI EXTENSION -ODRI AND KOTLU CLUSTER	A3	P0
71	TCE.12503A-CV-3082-WS-38211	12503A-CV-38211-Rev-P0	NETWORK DRAWING FOR LIS KATHLA	A3	P0
72	TCE.12503A-CV-3082-WS-38212	12503A-CV-38212-Rev-P0	NETWORK DRAWING FOR LIS THANPAL/CHAMBI	A3	P0
73	TCE.12503A-CV-3082-WS-38213	12503A-CV-38213-Rev-P0	NETWORK DRAWING FOR LIS TREHAL	A3	P0
74	TCE.12503A-CV-3082-WS-38214	12503A-CV-38214-Rev-P0	NETWORK DRAWING FOR LIS AGOZAR	A3	P1
75	TCE.12503A-CV-3082-WS-38215	12503A-CV-38215-Rev-P0	NETWORK DRAWING FOR LIS RAJHOT-1& 2	A3	P0
76	TCE.12503A-CV-3082-WS-38216	12503A-CV-38216-Rev-P0	NETWORK DRAWING FOR LIS LADOH-1	A3	P0
77	TCE.12503A-CV-3082-WS-38217	12503A-CV-38217-Rev-P0	NETWORK DRAWING FOR LIS LADOH-2	A3	P0
78	TCE.12503A-CV-3082-WS-38218	12503A-CV-38218-Rev-P0	NETWORK DRAWING FOR LIS BANURI	A3	P0
79	TCE.12503A-CV-3082-WS-38220	12503A-CV-38220-Rev-P0	NETWORK DRAWING FOR LIS SALIANA	A3	P0
80	TCE.12503A-CV-3082-WS-38221	12503A-CV-38221-Rev-P0	NETWORK DRAWING FOR LIS MOLICHAK	A3	P0
81	TCE.12503A-CV-3082-WS-38222	12503A-CV-38222-Rev-P0	NETWORK DRAWING FOR JANDPUR	A3	P0
82	TCE.12503A-CV-3082-WS-38223	12503A-CV-38223-Rev-P0	NETWORK DRAWING FOR LIS DHEERA-1 & 2	A3	P0
83	TCE.12503A-CV-3082-WS-38224	12503A-CV-38224-Rev-P0	NETWORK DRAWING FOR LIS DHEERA-3	A3	P0
84	TCE.12503A-CV-3082-WS-38225	12503A-CV-38225-Rev-P0	NETWORK DRAWING FOR CHAINCHADI- KUTHERA	A3	P0
85	TCE.12503A-CV-3082-WS-38226	12503A-CV-38226-Rev-P0	NETWORK DRAWING FOR LIS PURBA	A3	P0
86	TCE.12503A-CV-3082-WS-38227	12503A-CV-38227-Rev-P0	NETWORK DRAWING FOR LIS CHANDAR	A3	P0
87	TCE.12503A-CV-3082-WS-38228	12503A-CV-38228-Rev-P0	NETWORK DRAWING FOR LIS GAGAL KHAS	A3	P0
88	TCE.12503A-CV-3082-WS-38351	12503A-CV-38351-Rev-P0	PROPOSED L-SECTION LIS ON BINWA KHAD - LANGHU1 & 2 AND UPPER BHET CLUSTER (SHEET 01 OF 03)	A3	P0
89	TCE.12503A-CV-3082-WS-38352	12503A-CV-38352-Rev-P0	PROPOSED L-SECTION LIS ON BINWA KHAD - LANGHU1 & 2 AND UPPER BHET CLUSTER (SHEET 02 OF 03)	A3	P0
90	TCE.12503A-CV-3082-WS-38353	12503A-CV-38353-Rev-P0	PROPOSED L-SECTION LIS ON BINWA KHAD - LANGHU1 & 2 AND UPPER BHET CLUSTER (SHEET 03 OF 03)	A3	P0
91	TCE.12503A-CV-3082-WS-38354	12503A-CV-38354-Rev-P0	PROPOSED L-SECTION -LIS MANGHOTA	A3	P0

REVISED DRAWING LIST - KANGRA DISTRICT (PACKAGE -9)					
S.NO.	DRAWING. NO.	SOFT COPY FILE NAME	TITLE	SIZE	ISSUE
92	TCE.12503A-CV-3082-WS-38355	12503A-CV-38355-Rev-P0	PROPOSED L-SECTION - LIS KUDAIL (SHEET 01 OF 02)	A3	P0
93	TCE.12503A-CV-3082-WS-38356	12503A-CV-38356-Rev-P0	PROPOSED L-SECTION - LIS KUDAIL (SHEET 02 OF 02)	A3	P0
94	TCE.12503A-CV-3082-WS-38357	12503A-CV-38357-Rev-P0	PROPOSED L-SECTION - LIS THANDOL (SHEET 01 OF 03)	A3	P0
95	TCE.12503A-CV-3082-WS-38358	12503A-CV-38358-Rev-P0	PROPOSED L-SECTION - LIS THANDOL (SHEET 02 OF 03)	A3	P0
96	TCE.12503A-CV-3082-WS-38359	12503A-CV-38359-Rev-P0	PROPOSED L-SECTION - LIS THANDOL (SHEET 03 OF 03)	A3	P0
97	TCE.12503A-CV-3082-WS-38360	12503A-CV-38360-Rev-P1	PROPOSED L-SECTION- LIS GHAR	A3	P1
98	TCE.12503A-CV-3082-WS-38361	12503A-CV-38361-Rev-P0	PROPOSED L-SECTION LIS ON MOL KHAD - MALAHU 1 & 2 CLUSTER (SHEET 01 OF 03)	A3	P0
99	TCE.12503A-CV-3082-WS-38362	12503A-CV-38362-Rev-P0	PROPOSED L-SECTION LIS ON MOL KHAD - MALAHU 1 & 2 CLUSTER (SHEET 02 OF 03)	A3	P0
100	TCE.12503A-CV-3082-WS-38363	12503A-CV-38363-Rev-P0	PROPOSED L-SECTION LIS ON MOL KHAD - MALAHU 1 & 2 CLUSTER (SHEET 03 OF 03)	A3	P0
101	TCE.12503A-CV-3082-WS-38364	12503A-CV-38364-Rev-P1	PROPOSED L-SECTION- LIS SIDHPUR (SHEET 01 OF 03)	A3	P1
102	TCE.12503A-CV-3082-WS-38365	12503A-CV-38365-Rev-P1	PROPOSED L-SECTION- LIS SIDHPUR (SHEET 02 OF 03)	A3	P1
103	TCE.12503A-CV-3082-WS-38366	12503A-CV-38366-Rev-P1	PROPOSED L-SECTION- LIS SIDHPUR (SHEET 03 OF 03)	A3	P1
104	TCE.12503A-CV-3082-WS-38367	12503A-CV-38367-Rev-P0	PROPOSED L-SECTION LIS ON TAHL KHAD - LUDHRAN 1 & 2 AND CHARTKHOLA (SHEET 01 OF 03)	A3	P0
105	TCE.12503A-CV-3082-WS-38368	12503A-CV-38368-Rev-P0	PROPOSED L-SECTION LIS ON TAHL KHAD - LUDHRAN 1 & 2 AND CHARTKHOLA (SHEET 02 OF 03)	A3	P0
106	TCE.12503A-CV-3082-WS-38369	12503A-CV-38369-Rev-P0	PROPOSED L-SECTION LIS ON TAHL KHAD - LUDHRAN 1 & 2 AND CHARTKHOLA (SHEET 03 OF 03)	A3	P0
107	TCE.12503A-CV-3082-WS-38370	12503A-CV-38370-Rev-P0	PROPOSED L-SECTION LIS ALAMPUR- MALDOAN & JANGAL CLUSTER	A3	P0
108	TCE.12503A-CV-3082-WS-38371	12503A-CV-38371-Rev-P0	PROPOSED L-SECTION LIS BANDHUI EXTENSION -ODRI AND KOTLU CLUSTER	A3	P0
109	TCE.12503A-CV-3082-WS-38372	12503A-CV-38372-Rev-P0	PROPOSED L-SECTION- LIS KATHLA	A3	P0
110	TCE.12503A-CV-3082-WS-38373	12503A-CV-38373-Rev-P0	PROPOSED L-SECTION- LIS THANPAL/CHAMBI	A3	P0
111	TCE.12503A-CV-3082-WS-38374	12503A-CV-38374-Rev-P0	PROPOSED L-SECTION- LIS TREHAL	A3	P0
112	TCE.12503A-CV-3082-WS-38375	12503A-CV-38375-Rev-P1	PROPOSED L-SECTION- LIS AGOZAR	A3	P1
113	TCE.12503A-CV-3082-WS-38376	12503A-CV-38376-Rev-P0	PROPOSED L-SECTION- LIS RAJHOT 1 (SHEET 01 OF 03)	A3	P0
114	TCE.12503A-CV-3082-WS-38377	12503A-CV-38377-Rev-P0	PROPOSED L-SECTION- LIS RAJHOT 1 (SHEET 02 OF 03)	A3	P0
115	TCE.12503A-CV-3082-WS-38378	12503A-CV-38378-Rev-P0	PROPOSED L-SECTION- LIS RAJHOT 1 (SHEET 03 OF 03)	A3	P0
116	TCE.12503A-CV-3082-WS-38379	12503A-CV-38379-Rev-P0	PROPOSED L-SECTION- LIS LADOH 1 (SHEET 01 OF 02)	A3	P0
117	TCE.12503A-CV-3082-WS-38380	12503A-CV-38380-Rev-P0	PROPOSED L-SECTION- LIS LADOH 1 (SHEET 01 OF 02)	A3	P0
118	TCE.12503A-CV-3082-WS-38381	12503A-CV-38381-Rev-P0	PROPOSED L-SECTION- LIS LADOH-2	A3	P0
119	TCE.12503A-CV-3082-WS-38382	12503A-CV-38382-Rev-P0	PROPOSED L-SECTION- LIS BANURI	A3	P0
120	TCE.12503A-CV-3082-WS-38384	12503A-CV-38384-Rev-P0	PROPOSED L-SECTION- LIS SALIANA	A3	P0
121	TCE.12503A-CV-3082-WS-38385	12503A-CV-38385-Rev-P0	PROPOSED L-SECTION- LIS MOLICHAK	A3	P0
122	TCE.12503A-CV-3082-WS-38386	12503A-CV-38386-Rev-P0	PROPOSED L-SECTION- LIS JANDPUR	A3	P0
123	TCE.12503A-CV-3082-WS-38387	12503A-CV-38387-Rev-P0	PROPOSED L-SECTION- LIS DHEERA-1 & 2 (SHEET 01 OF 02)	A3	P0
124	TCE.12503A-CV-3082-WS-38388	12503A-CV-38388-Rev-P0	PROPOSED L-SECTION- LIS DHEERA-1 & 2 (SHEET 02 OF 02)	A3	P0
125	TCE.12503A-CV-3082-WS-38389	12503A-CV-38389-Rev-P0	PROPOSED L-SECTION- LIS DHEERA-3	A3	P0
126	TCE.12503A-CV-3082-WS-38390	12503A-CV-38390-Rev-P0	PROPOSED L-SECTION- LIS CHAINCHADI- KUTHERA (SHEET 01 OF 02)	A3	P0
127	TCE.12503A-CV-3082-WS-38391	12503A-CV-38391-Rev-P0	PROPOSED L-SECTION- LIS CHAINCHADI- KUTHERA (SHEET 02 OF 02)	A3	P0
128	TCE.12503A-CV-3082-WS-38392	12503A-CV-38392-Rev-P0	PROPOSED L-SECTION - LIS PURBA (SHEET 01 OF 02)	A3	P0
129	TCE.12503A-CV-3082-WS-38393	12503A-CV-38393-Rev-P0	PROPOSED L-SECTION - LIS PURBA (SHEET 02 OF 02)	A3	P0
130	TCE.12503A-CV-3082-WS-38394	12503A-CV-38394-Rev-P0	PROPOSED L-SECTION - LIS CHANDAR (SHEET 01 OF 04)	A3	P0
131	TCE.12503A-CV-3082-WS-38395	12503A-CV-38395-Rev-P0	PROPOSED L-SECTION - LIS CHANDAR (SHEET 02 OF 04)	A3	P0
132	TCE.12503A-CV-3082-WS-38396	12503A-CV-38396-Rev-P0	PROPOSED L-SECTION - LIS CHANDAR (SHEET 03 OF 04)	A3	P0
133	TCE.12503A-CV-3082-WS-38397	12503A-CV-38397-Rev-P0	PROPOSED L-SECTION - LIS CHANDAR (SHEET 04 OF 04)	A3	P0
134	TCE.12503A-CV-3082-WS-38398	12503A-CV-38398-Rev-P0	PROPOSED L-SECTION - LIS GAGAL KHAS (SHEET 01 OF 02)	A3	P0
135	TCE.12503A-CV-3082-WS-38399	12503A-CV-38399-Rev-P0	PROPOSED L-SECTION - LIS GAGAL KHAS (SHEET 02 OF 02)	A3	P0
136	TCE.12503A-CV-3082-WS-30581	12503A-CV-30581-Rev-P0	TYPICAL SLUICE VALVE CHAMBER DETAILS	A3	P0
137	TCE.12503A-CV-3082-WS-30582	12503A-CV-30582-Rev-P0	TYPICAL DETAILS FOR THRUST BLOCK	A3	P0

REVISED DRAWING LIST - KANGRA DISTRICT (PACKAGE -9)					
S.NO.	**DRAWING. NO.**	**SOFT COPY FILE NAME**	**TITLE**	**SIZE**	**ISSUE**
138	TCE.12503A-CV-3082-RC-30583	12503A-CV-30583-Rev-P0	TYPICAL DETAILS FOR SADDLE SUPPORT	A3	P0
139	TCE.12503A-CV-3082-GA-30584	12503A-CV-30584-Rev-P0	TYPICAL GLSR DETAILS (100000, 150000, 200000, 250000 LITRE CAPACITY)	A3	P0
140	TCE.12503A-CV-3082-WS-30585	12503A-CV-30585-Rev-P0	TYPICAL DETAILS FOR SCOUR VALVE AND AIR VALVE CHAMBER	A3	P0
141	TCE.12503A-CV-3082-GA-30586	12503A-CV-30586-Rev-P1	TYPICAL DETAILS FOR PUMP HOUSE	A3	P1
142	TCE.12503A-CV-3082-GA-30587	12503A-CV-30587-Rev-P1	GENERAL ARRANGEMENT FOR INTAKE WELL	A3	P1
143	TCE.12503A-CV-3082-WS-30588	12503A-CV-30588-Rev-P0	TYPICAL DETAILS FOR BEDDING AND TRENCH	A3	P0
144	TCE.12503A-CV-3082-GA-30589	12503A-CV-30589-Rev-P0	GENERAL ARRANGEMENT FOR CHECK DAM	A3	P0
145	TCE.12503A-CV-3082-GA-30590	12503A-CV-30590-Rev-P0	TYPICAL DETAILS FOR DESILTING TANK	A3	P0
146	TCE.12503A-CV-3082-GA-30591	12503A-CV-30591-Rev-P0	TYPICAL DETAILS OF ELSR	A3	P0
147	TCE.12503A-CV-3082-GA-30592	12503A-CV-30592-Rev-P0	TYPICAL DETAILS FOR PERCOLATION WELL	A3	P0
148	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
149	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
150	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
151	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



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.

TBM 580.000

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FILE NAME: 12503A-CV-38001-Rev-P0

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TOPOGRAPHICAL SURVEY FOR LANGHU-1 CLUSTER

BAIJNATH BLOCK, KANGRA DISTRICT

TATA CONSULTING ENGINEERS LIMITED

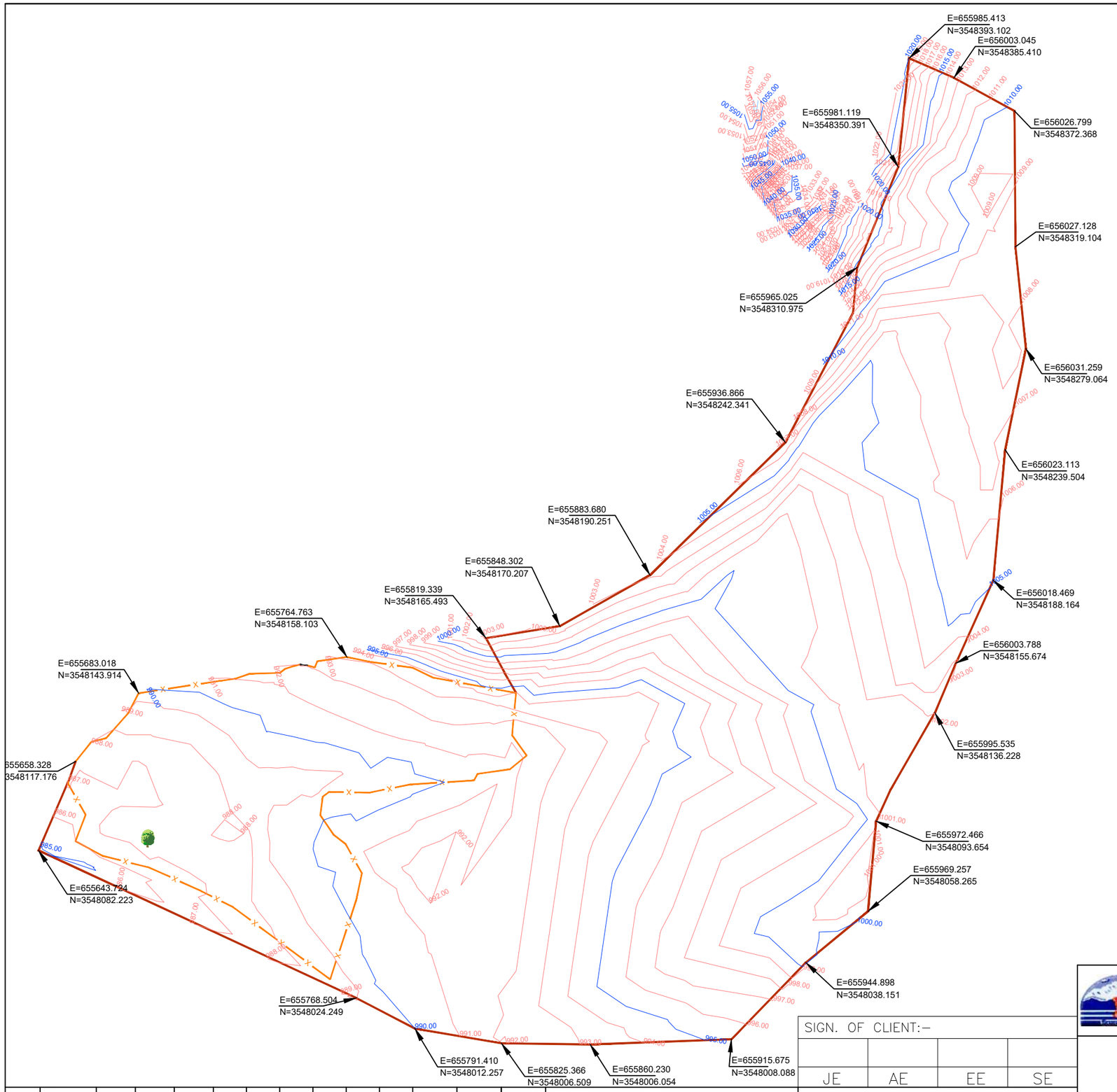
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A-CV-3005-LM-38001	ISSUE P0
DC & DISC: DEL-CV		

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1



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.

TBM 580.000

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FILE NAME: 12503A-CV-38002-Rev-P0

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IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TOPOGRAPHICAL SURVEY FOR MANGHOTA CLUSTER

BAIJNATH BLOCK, KANGRA DISTRICT

TATA CONSULTING ENGINEERS LIMITED

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SCALE : NTS	DWG NO. TCE.12503A-CV-3005-LM-38002	ISSUE P0
DC & DISC: DEL-CV		

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

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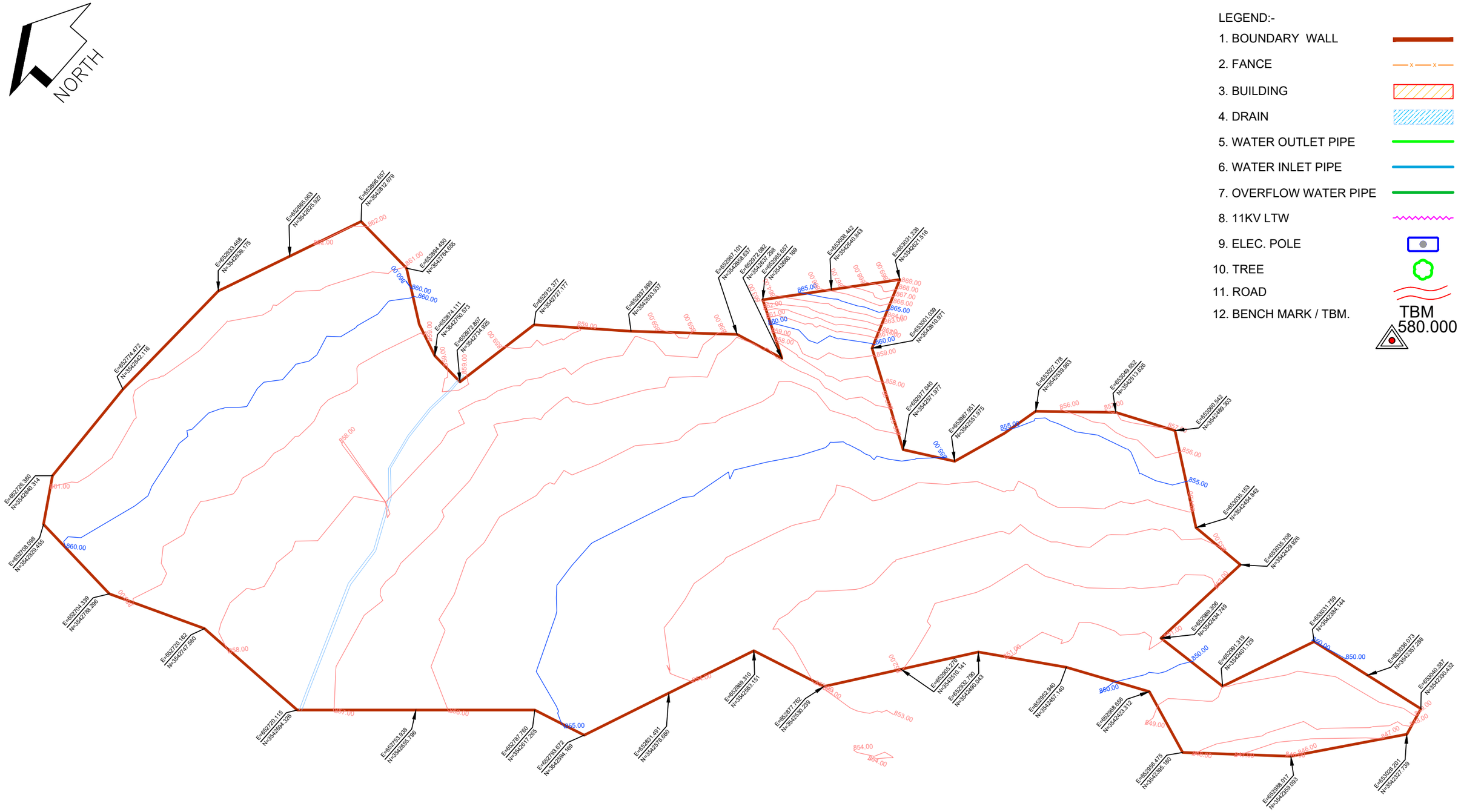

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	REVISIONS													
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd-mm-yyyy)	
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FILE NAME: 12503A–CV–38003–Rev–P0

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IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TOPOGRAPHICAL SURVEY FOR LANGHU–2 CLUSTER

BAIJNATH BLOCK, KANGRA DISTRICT

TATA CONSULTING ENGINEERS LIMITED

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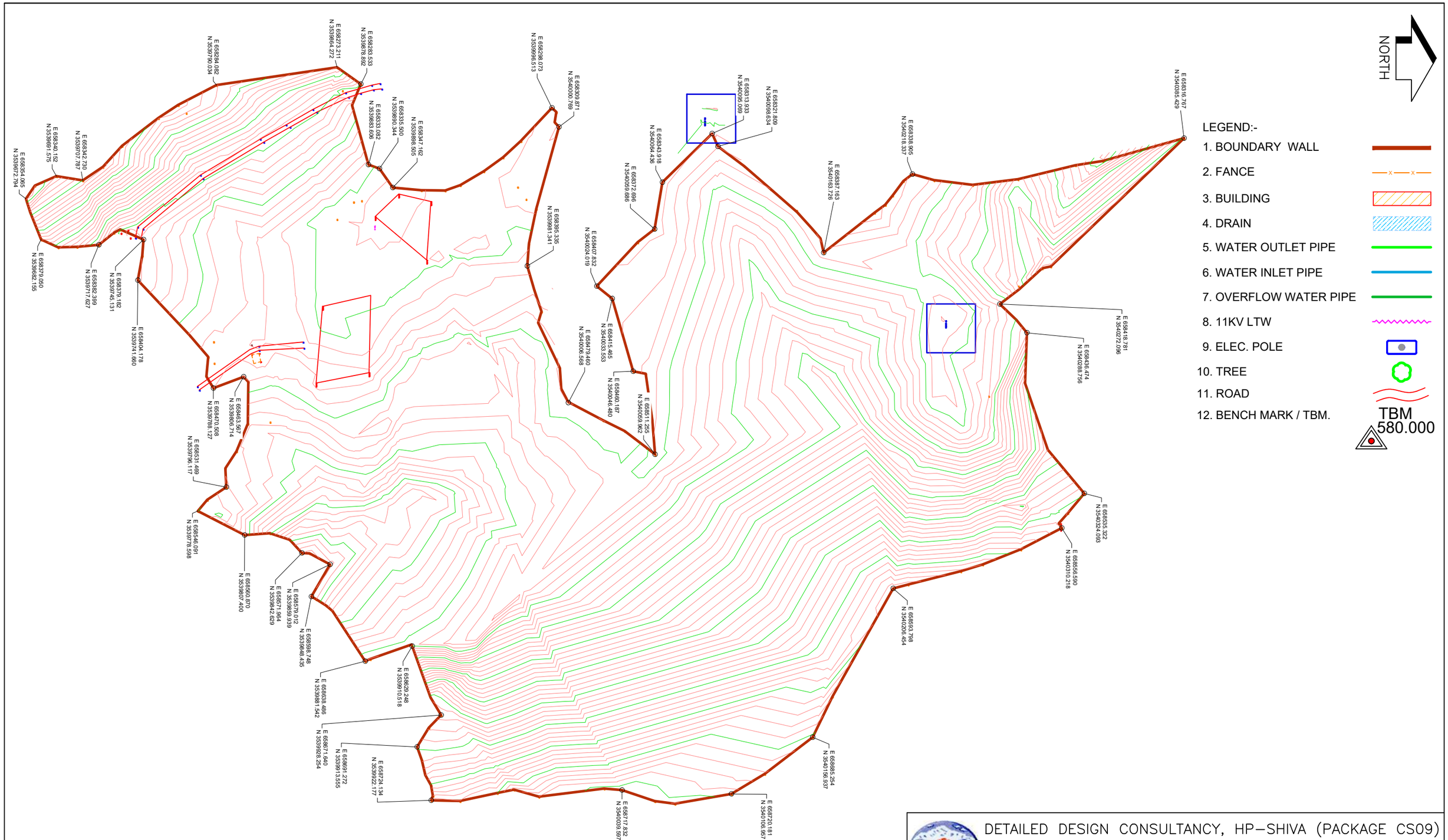
SCALE : NTS	DWG NO. TCE.12503A–CV–3005–LM–38003		ISSUE P0
DC & DISC: DEL–CV			

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1



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FILE NAME: 12503A–CV–38004–Rev–P0

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IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TOPOGRAPHICAL SURVEY FOR KUDAIL CLUSTER

BAIJNATH BLOCK, KANGRA DISTRICT

TATA CONSULTING ENGINEERS LIMITED

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SCALE : NTS	DWG NO. TCE.12503A–CV–3005–LM–38004	ISSUE P0
DC & DISC: DEL–CV		

SIZE-A3

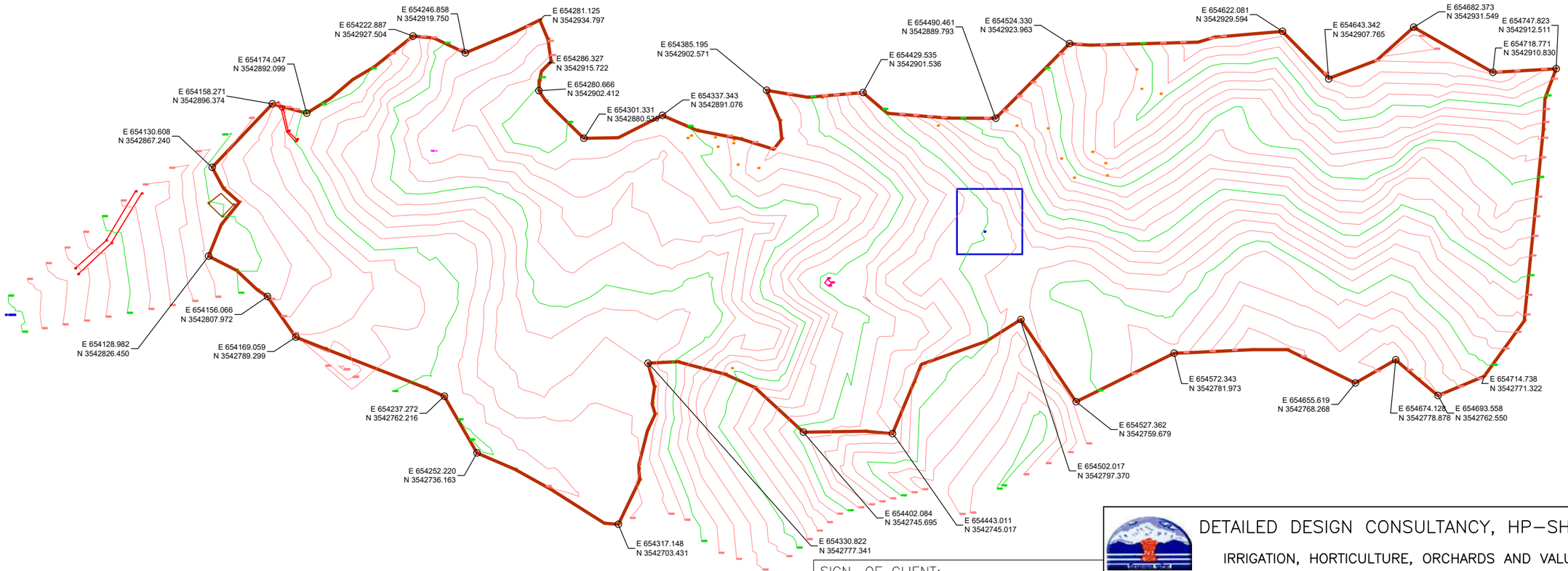
FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1

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



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IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TOPOGRAPHICAL SURVEY FOR UPPER BHET CLUSTER
BAIJNATH BLOCK, KANGRA DISTRICT

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FILE NAME: 12503A–CV–38006–Rev–P0

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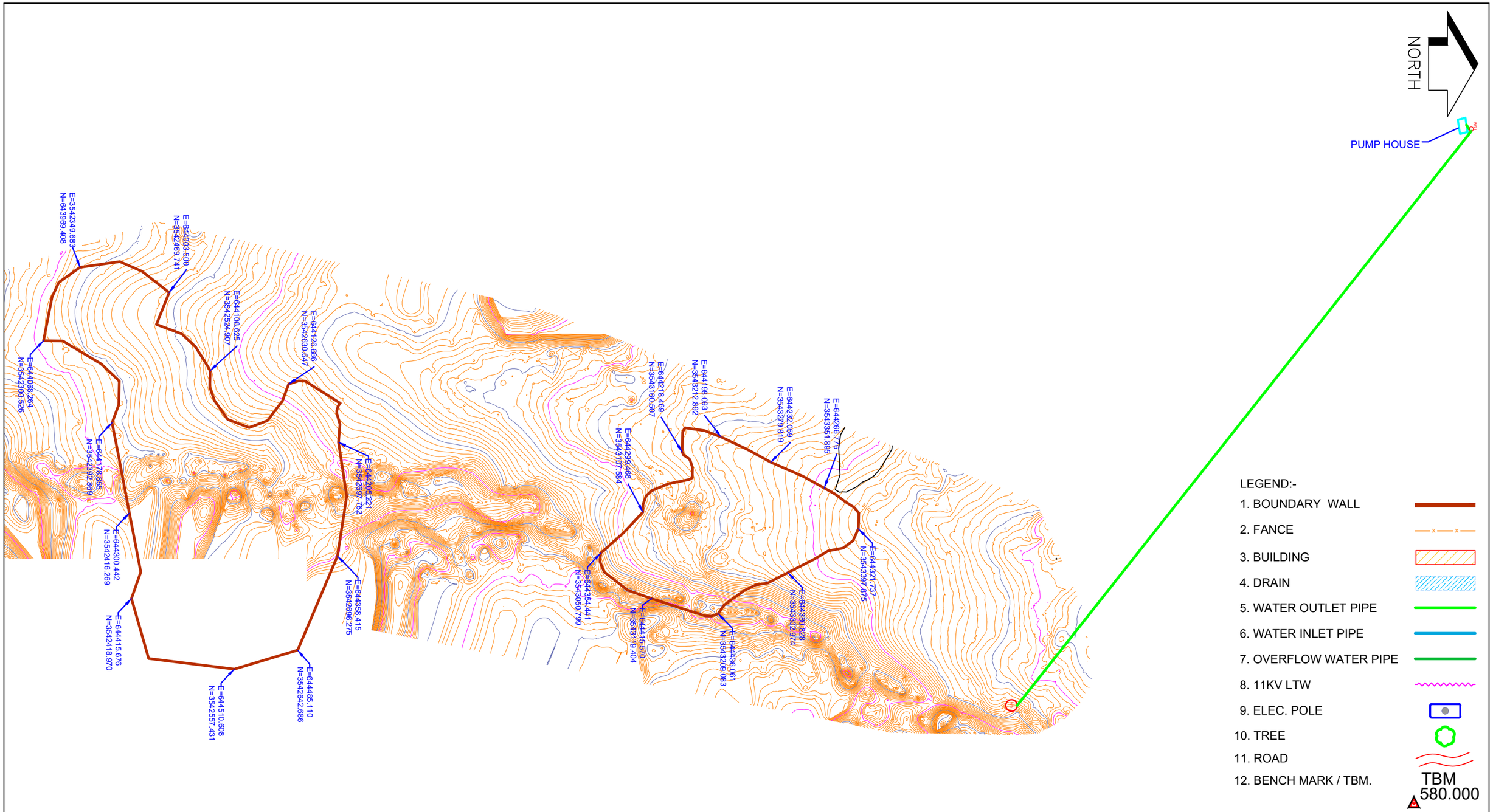
SCALE : NTS
DC & DISC: DEL–CV
DWG NO. TCE.12503A–CV–3005–LM–38006
ISSUE P0
SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1



DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TOPOGRAPHICAL SURVEY FOR THANDOL–1 CLUSTER

BHAWARNA BLOCK, KANGRA DISTRICT

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FILE NAME: 12503A–CV–38007–Rev–P0

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	REVISIONS													
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd–mm–yyyy)	
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SCALE : NTS

DC & DISC: DEL–CV

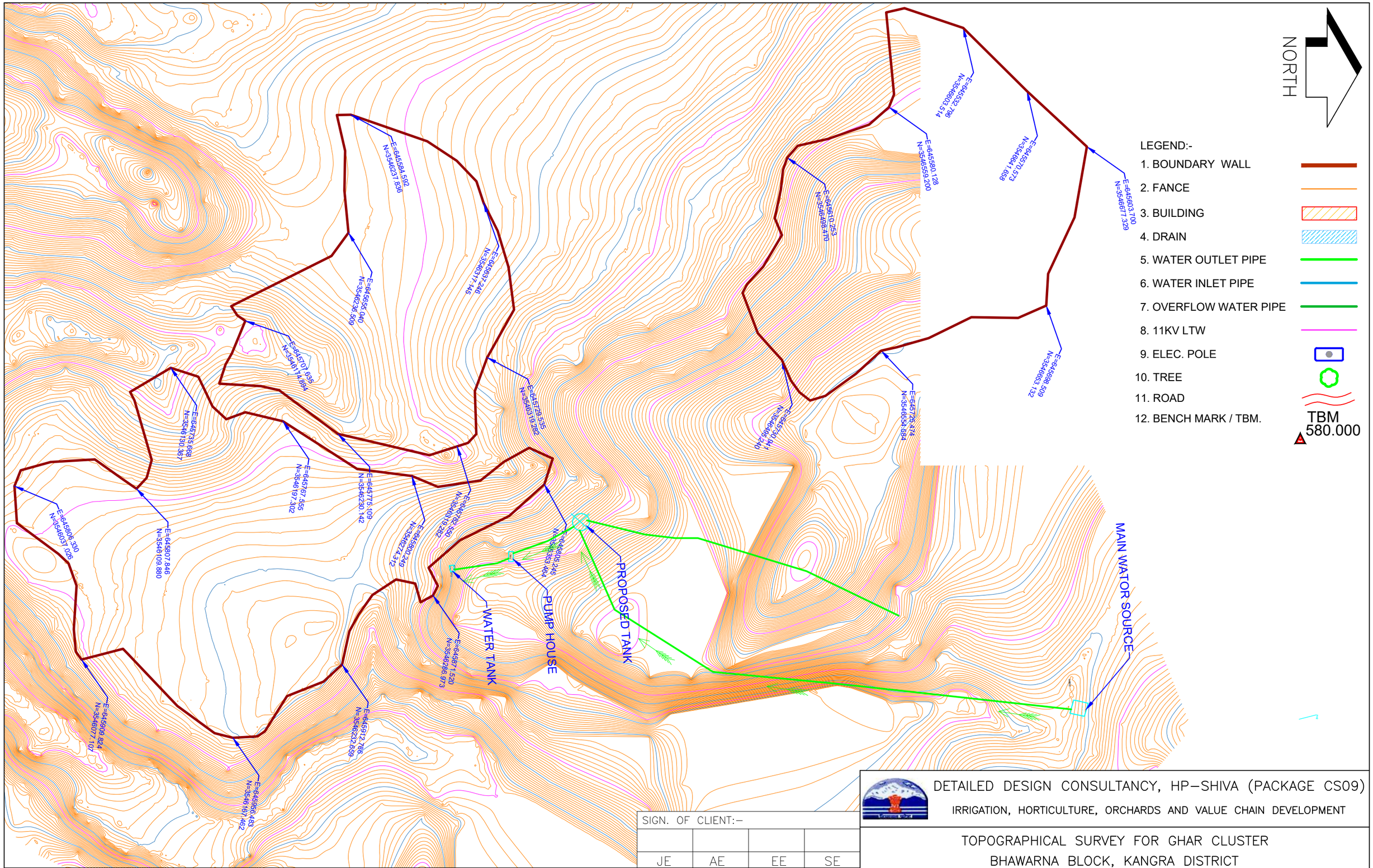
DWG NO. TCE.12503A–CV–3005–LM–38007

ISSUE P0

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1



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FILE NAME: 12503A-CV-38008-Rev-P0

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TOPOGRAPHICAL SURVEY FOR GHAR CLUSTER

BHAWARNA BLOCK, KANGRA DISTRICT

TATA CONSULTING ENGINEERS LIMITED

MUMBAI

SCALE : NTS	DWG NO. TCE.12503A-CV-3005-LM-38008		ISSUE P0
DC & DISC: DEL-CV			

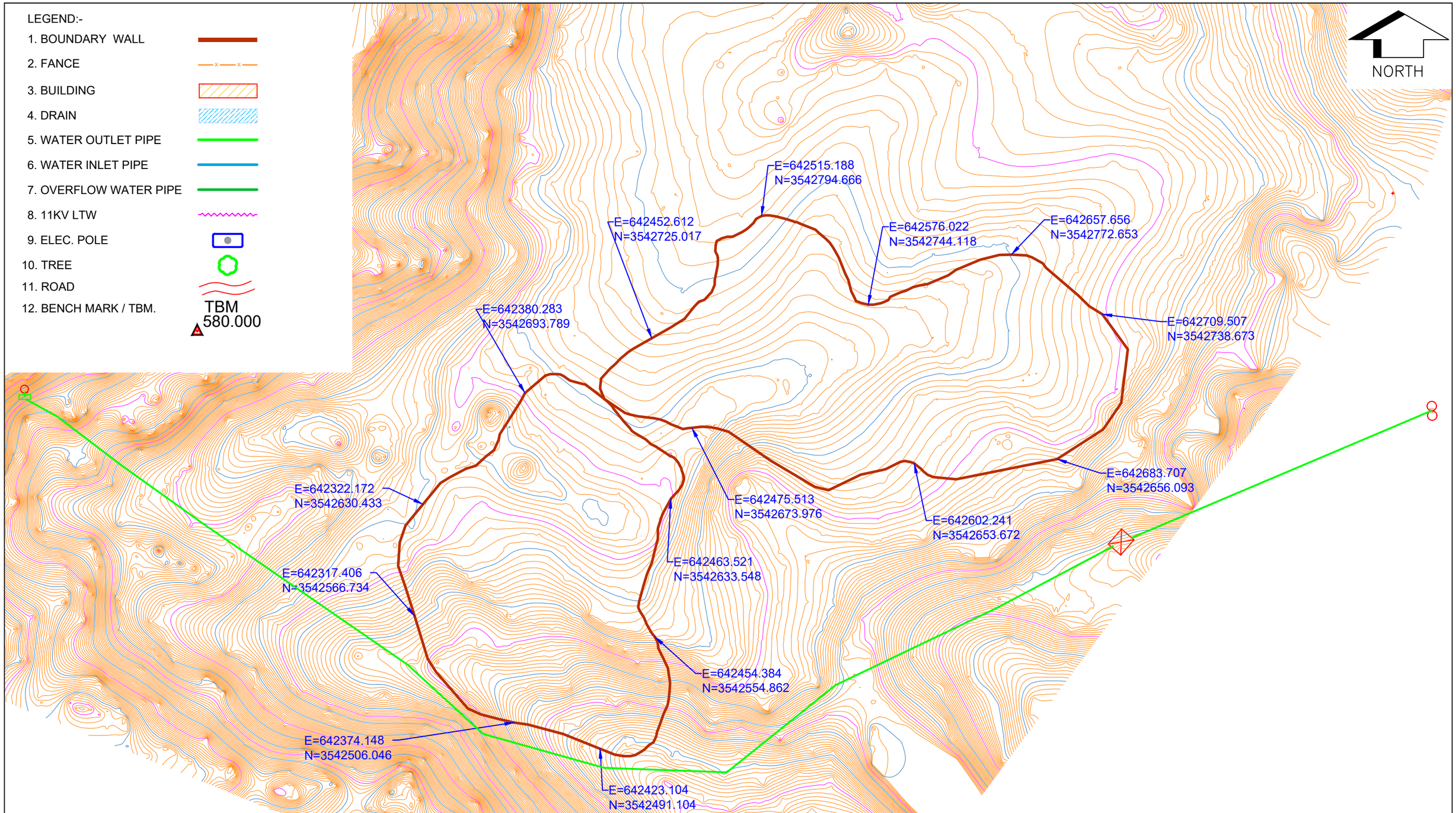
SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1

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. TBM 580.000



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PURPOSE: FOR TENDER ONLY

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	REVISIONS												
P0	SIGN.												
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	REVISIONS												
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd-mm-yyyy)
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FILE NAME: 12503A-CV-38009-Rev-P0

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TOPOGRAPHICAL SURVEY FOR MALAHU I CLUSTER
BHAWARNA BLOCK, KANGRA DISTRICT

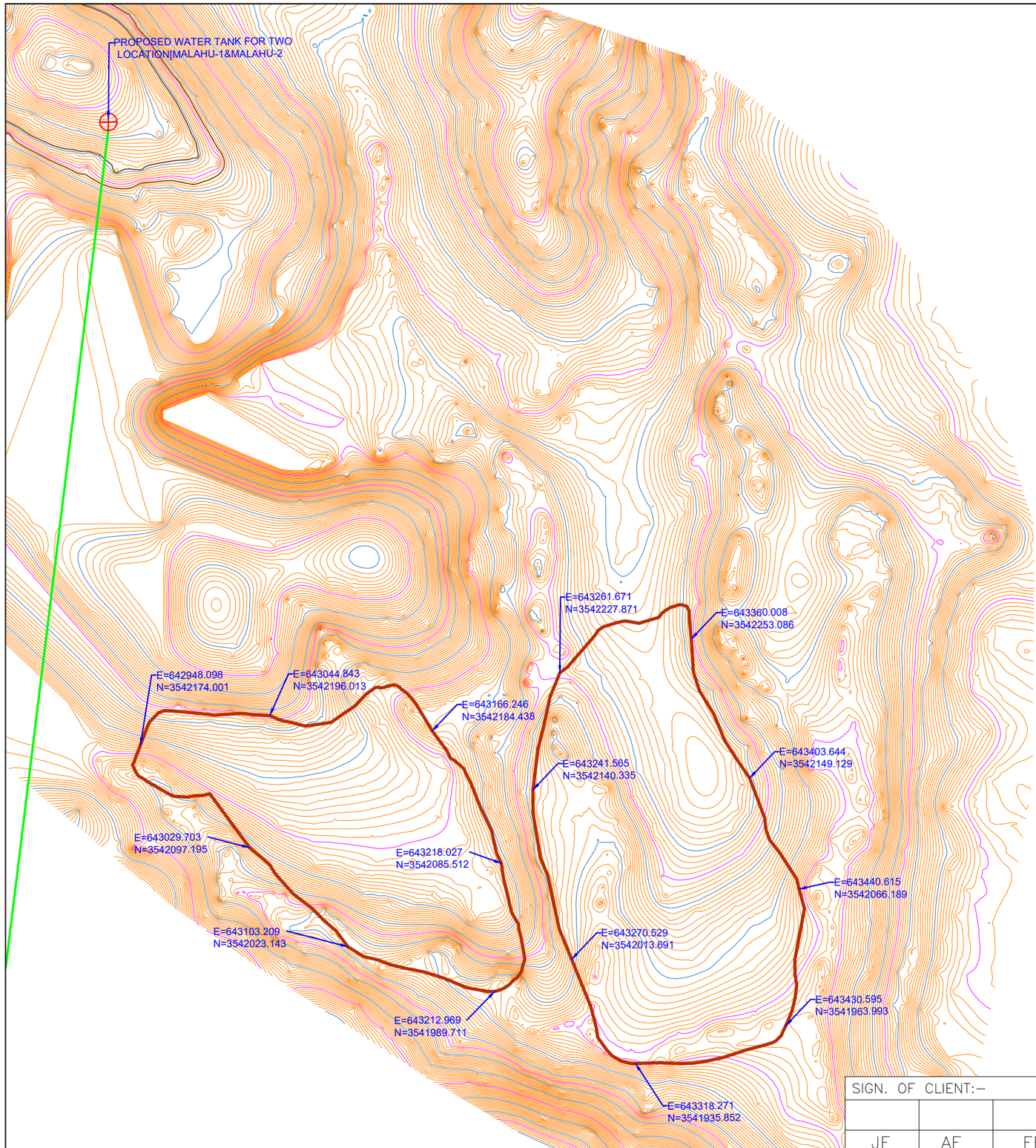
TATA CONSULTING ENGINEERS LIMITED
MUMBAI

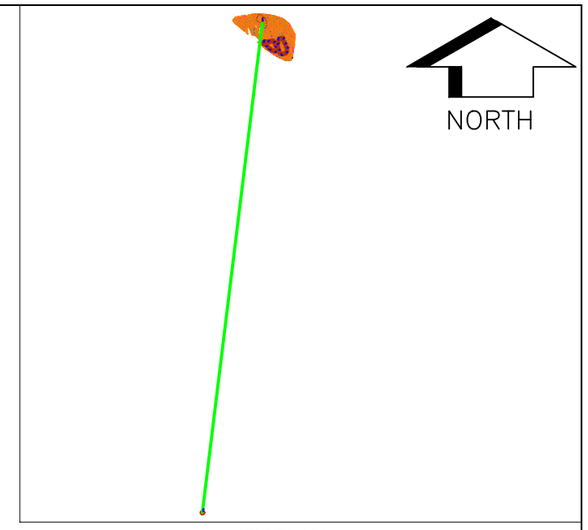
SCALE : NTS	DWG NO. TCE.12503A-CV-3005-LM-38009	ISSUE P0
DC & DISC: DEL-CV		

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1





KEY PLAN

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.

TBM 580.000

	SIGN.												
	INITIALS												
	REVISIONS												
P0	SIGN.												
	INITIALS	KKS	SKAC	DVB							MK	DK	02-07-2022
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FILE NAME: 12503A-CV-38010-Rev-P0

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

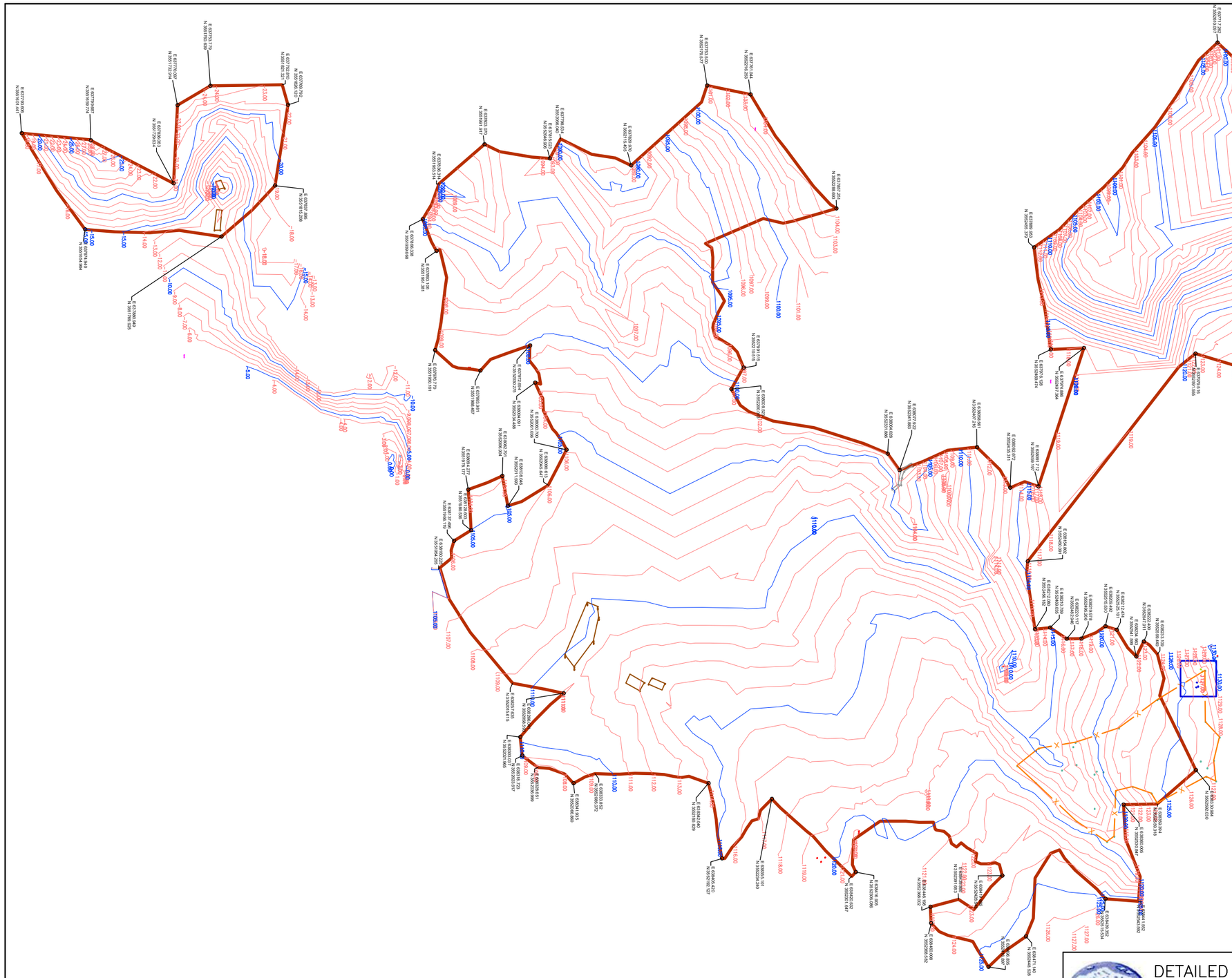
TOPOGRAPHICAL SURVEY FOR MALAHU II CLUSTER
BHAWARNA BLOCK, KANGRA DISTRICT

TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A-CV-3005-LM-38010	ISSUE P0	SIZE-A3
DC & DISC: DEL-CV			

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1



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.

TBM 580.000

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TOPOGRAPHICAL SURVEY FOR SIDHPUR CLUSTER
BHAWARNA BLOCK, KANGRA DISTRICT

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	REVISIONS													
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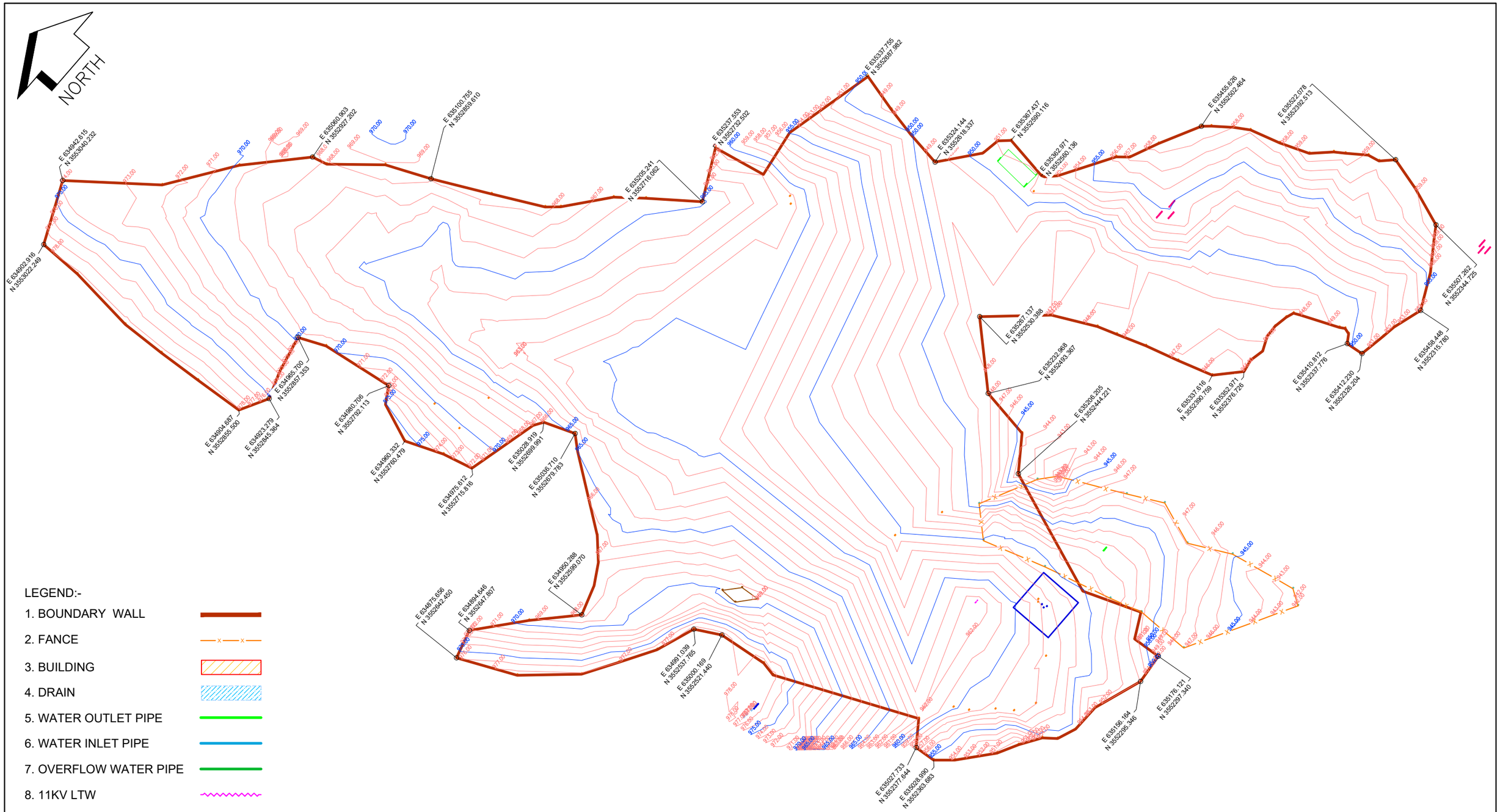
FILE NAME: 12503A–CV–38011–Rev–P0	SCALE : NTS	DWG NO. TCE.12503A–CV–3005–LM–38011	ISSUE P0
	DC & DISC: DEL–CV		

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1



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. TBM 580.000

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FILE NAME: 12503A-CV-38012-Rev-P0

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TOPOGRAPHICAL SURVEY FOR CHARTKHOLA CLUSTER
BHAWARNA BLOCK, KANGRA DISTRICT

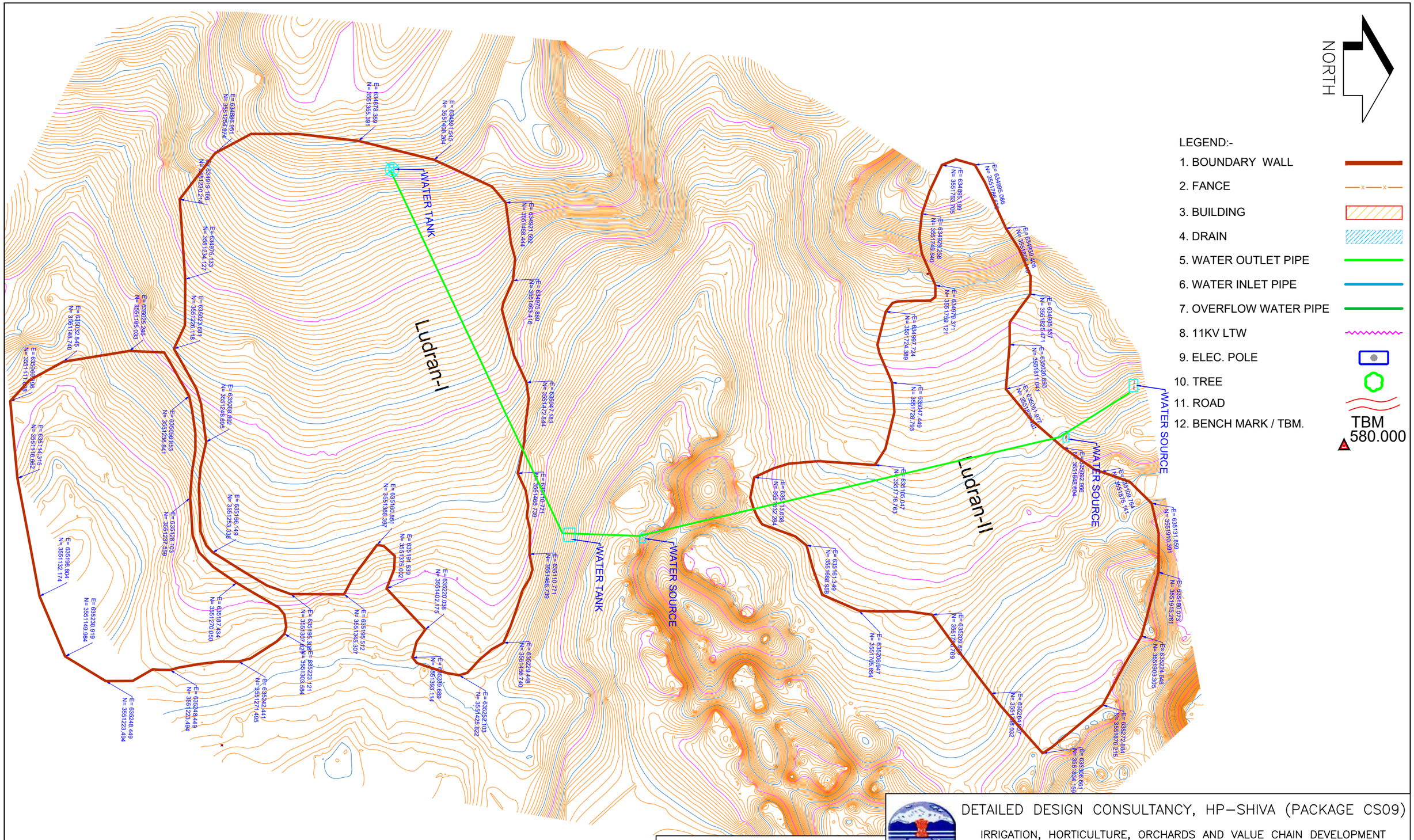
TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A-CV-3005-LM-38012	ISSUE P0
DC & DISC: DEL-CV		

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1



DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TOPOGRAPHICAL SURVEY FOR LUDHRAN 1 & 2 CLUSTER

BHAWARNA BLOCK, KANGRA DISTRICT

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DC & DISC: DEL–CV		

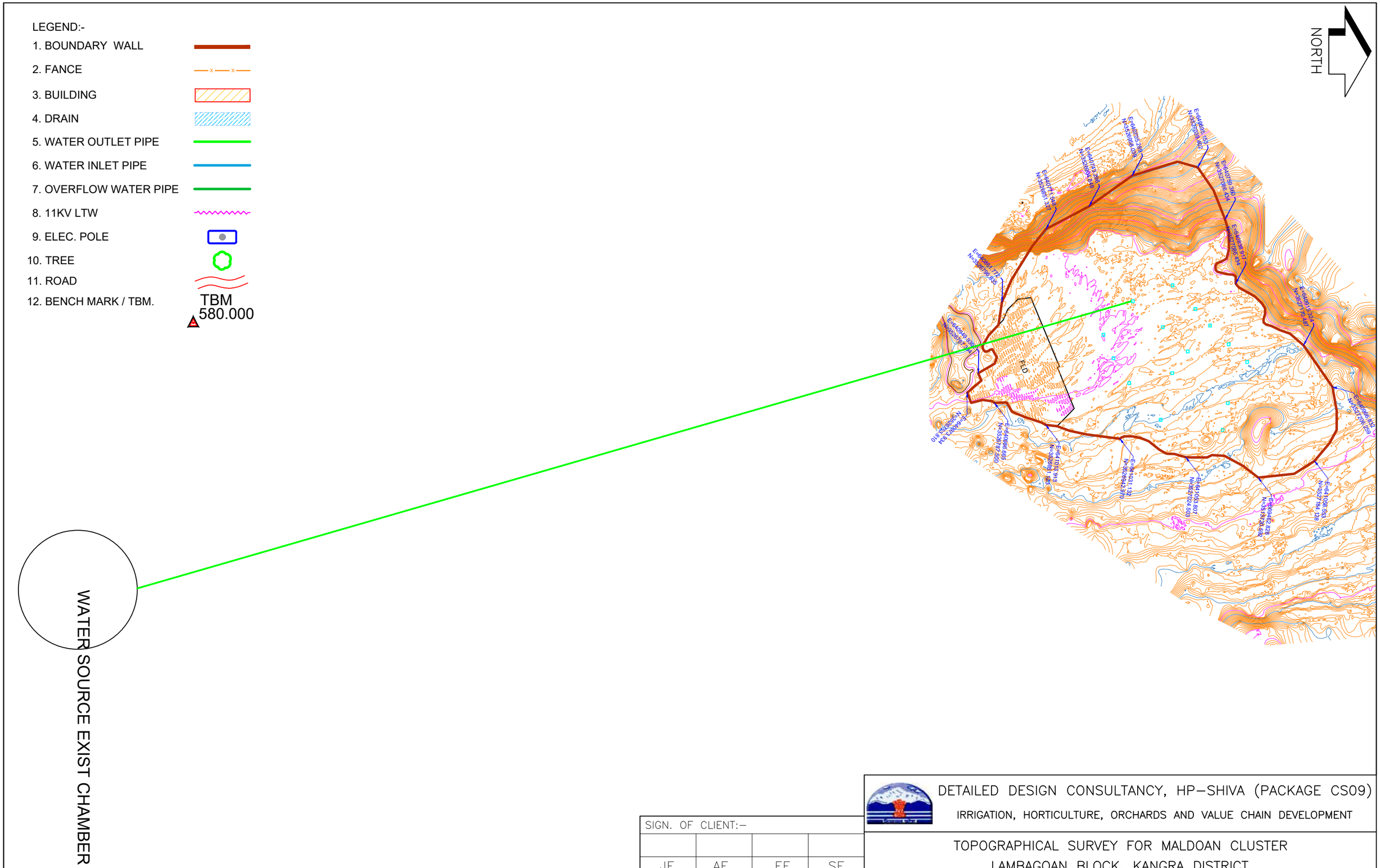
SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1

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. — TBM 580.000



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FILE NAME: 12503A-CV-38014-Rev-P0

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IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TOPOGRAPHICAL SURVEY FOR MALDOAN CLUSTER
LAMBAGOAN BLOCK, KANGRA DISTRICT

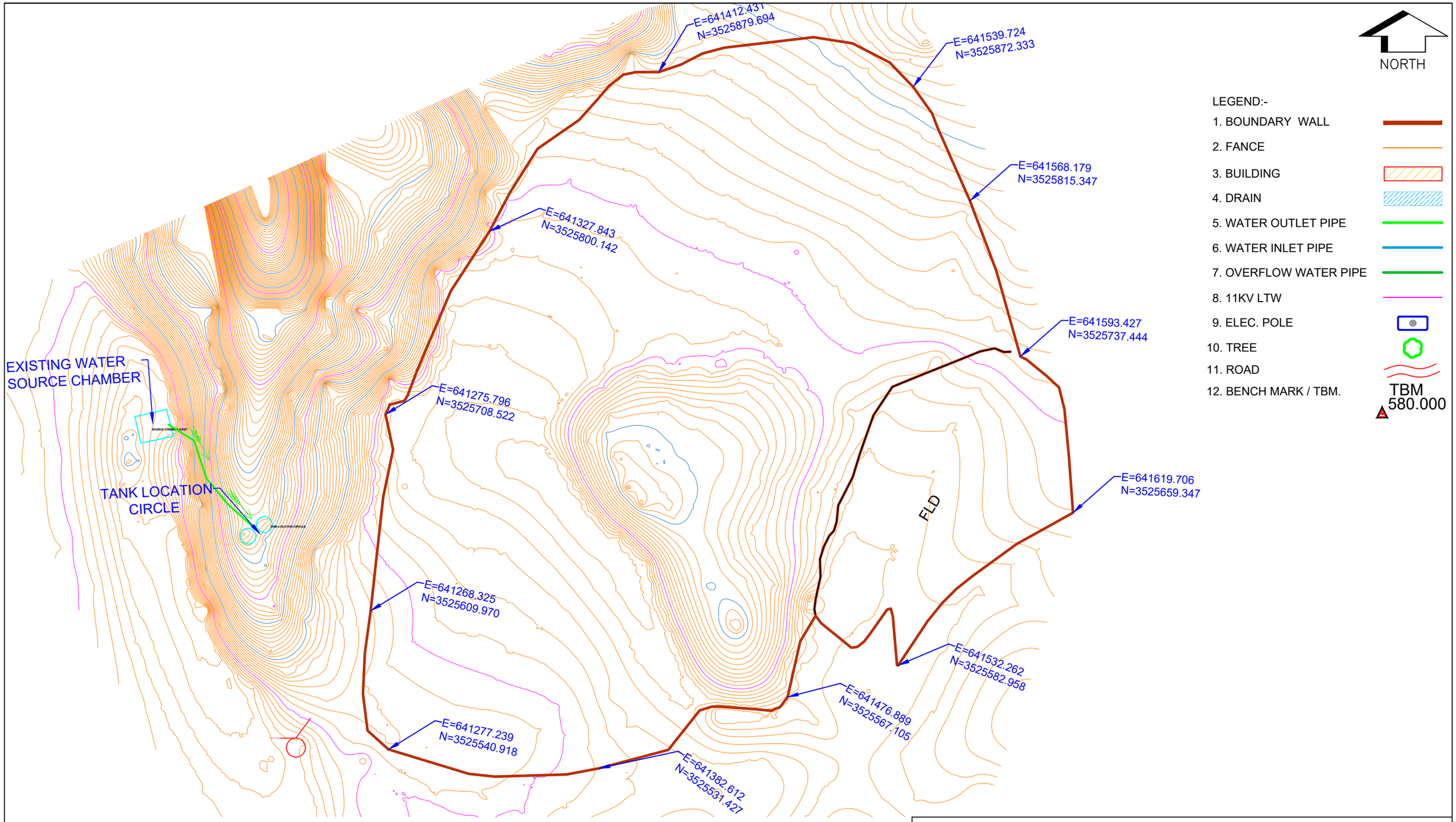
TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A-CV-3005-LM-38014	ISSUE P0
DC & DISC: DEL-CV		

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1



DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TOPOGRAPHICAL SURVEY FOR JANGAL CLUSTER
LAMBAGOAN BLOCK, KANGRA DISTRICT

SIGN. OF CLIENT:–

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	REVISIONS													
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	REVISIONS													
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd-mm-yyyy)	
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FILE NAME: 12503A–CV–38015–Rev–P0

TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS

DC & DISC: DEL–CV

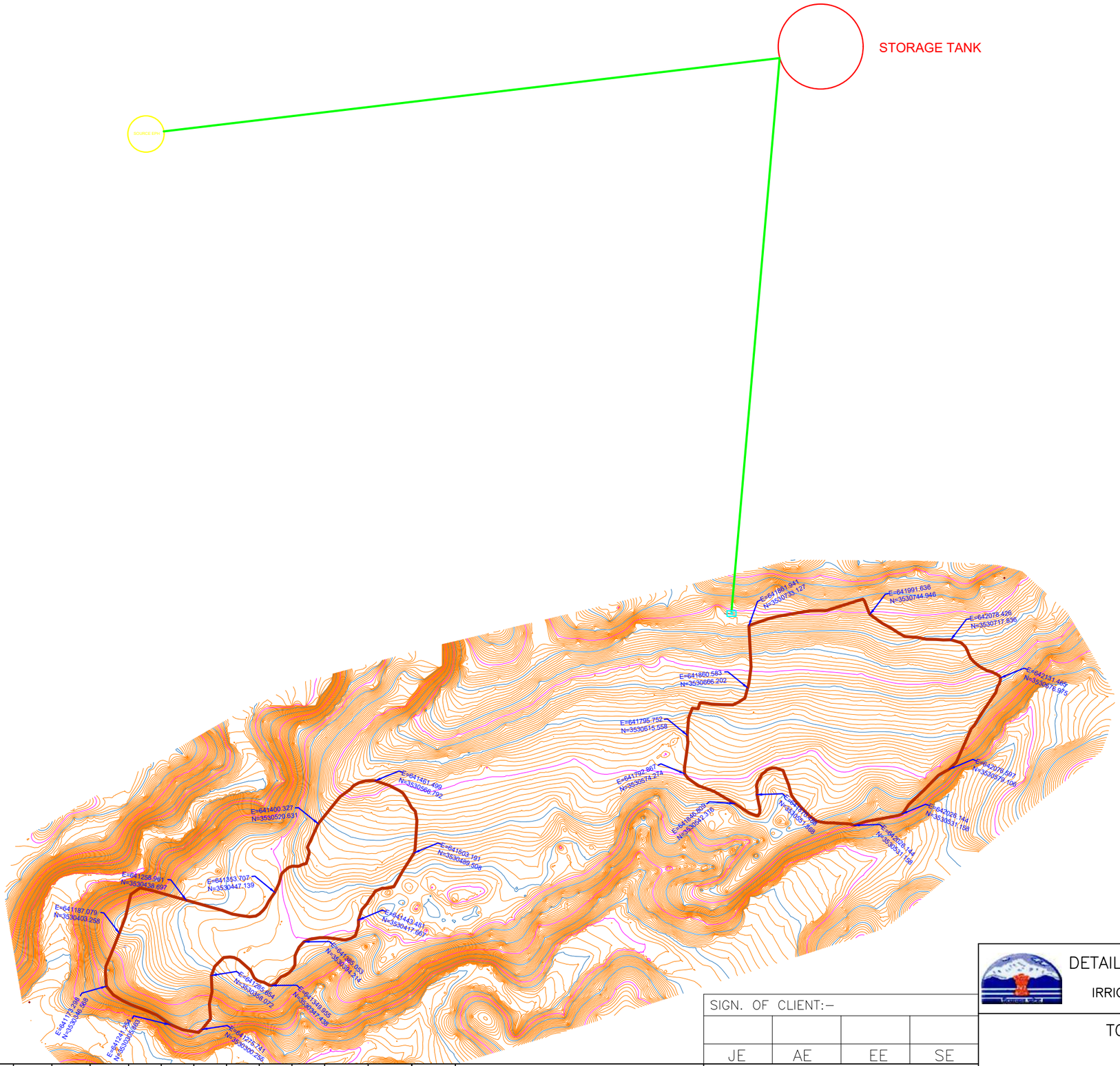
DWG NO. TCE.12503A–CV–3005–LM–38015

ISSUE P0

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1



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. — TBM 580.000

	SIGN.													
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FILE NAME: 12503A–CV–38016–Rev–P0

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TOPOGRAPHICAL SURVEY FOR ODRI CLUSTER
LAMBAGOAN BLOCK, KANGRA DISTRICT

TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A–CV–3005–LM–38016		ISSUE P0
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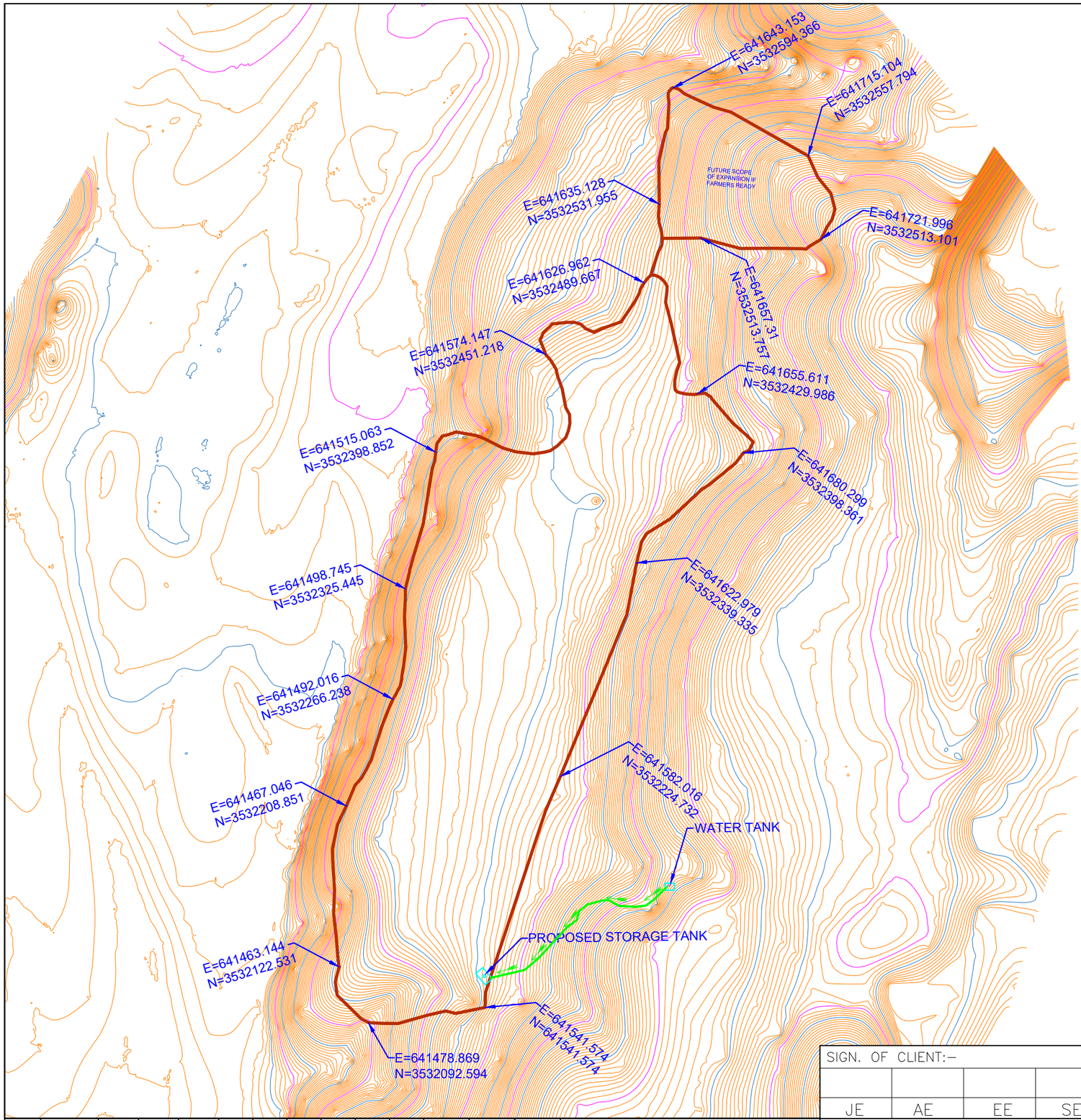
SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1



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.

TBM 580.000

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	SIGN.													
P0	INITIALS	KKS	SKAC	DVB							MK	DK	02-07-2022	
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ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd-mm-yyyy)	
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FILE NAME: 12503A-CV-38017-Rev-P0

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TOPOGRAPHICAL SURVEY FOR KOTLU CLUSTER

LAMBAGOAN BLOCK, KANGRA DISTRICT

TATA CONSULTING ENGINEERS LIMITED

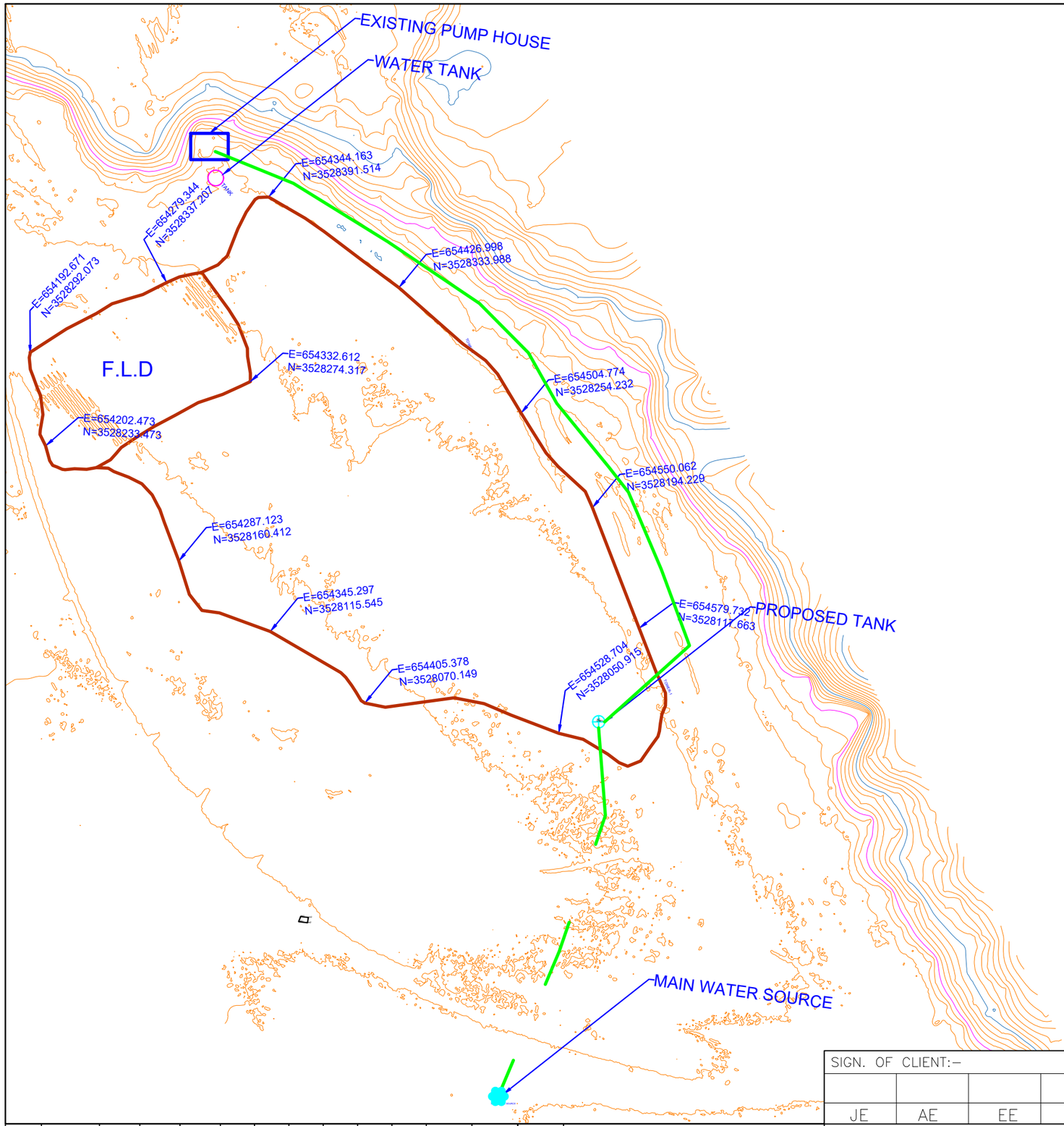
MUMBAI

SCALE	DWG NO.	ISSUE
: NTS	TCE.12503A-CV-3005-LM-38017	P0
DC & DISC: DEL-CV		

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1



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. — TBM 580.000

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FILE NAME: 12503A–CV–38018–Rev–P0

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TOPOGRAPHICAL SURVEY FOR KATHLA CLUSTER
LAMBAGOAN BLOCK, KANGRA DISTRICT

TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A–CV–3005–LM–38018	ISSUE P0	SIZE-A3
DC & DISC: DEL–CV			

FILE NAME: F-093-Rev-R1.DWG

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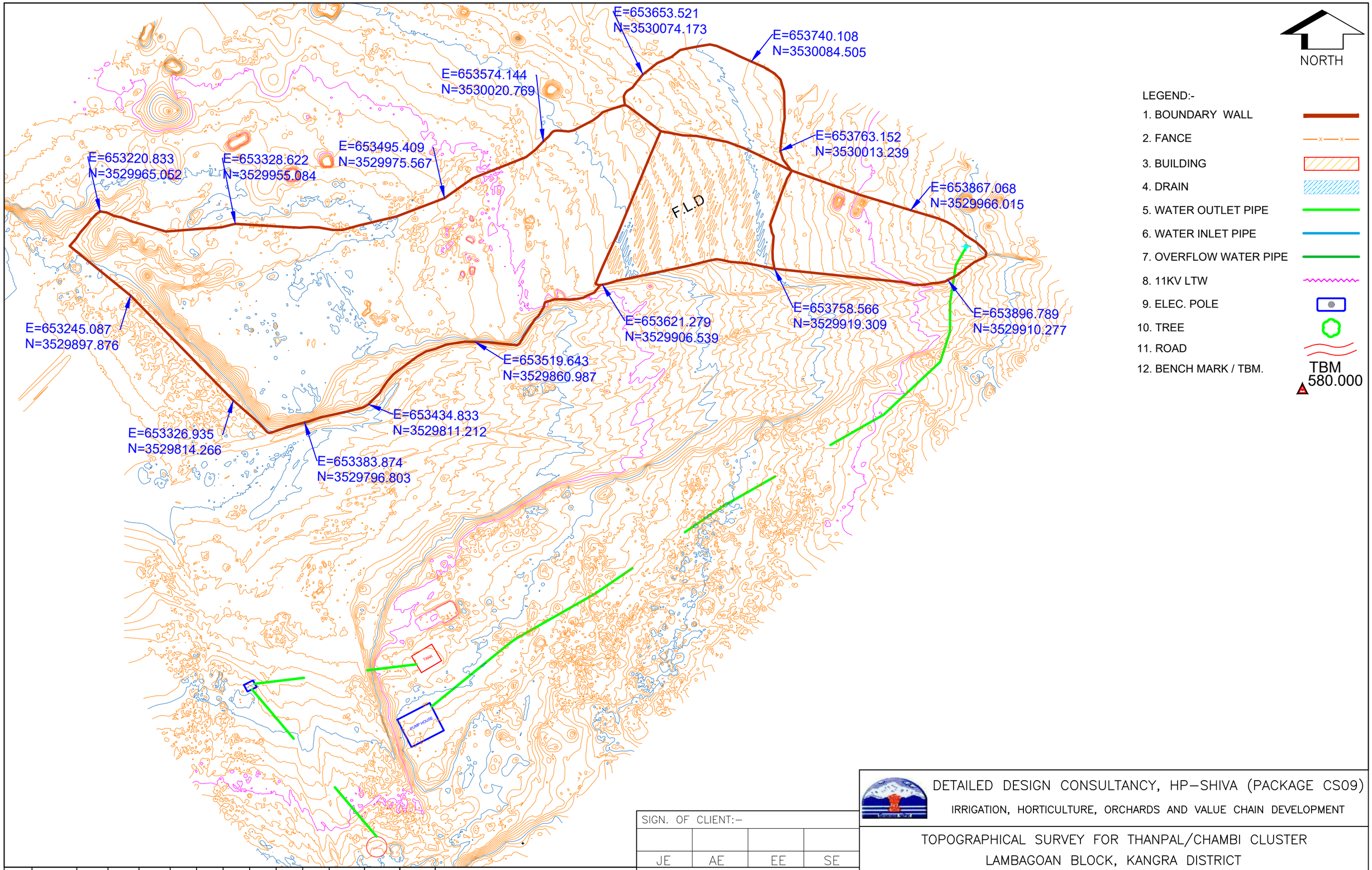

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FILE NAME: 12503A-CV-38019-Rev-P0

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TOPOGRAPHICAL SURVEY FOR THANPAL/CHAMBI CLUSTER LAMBAGOAN BLOCK, KANGRA DISTRICT

TATA CONSULTING ENGINEERS LIMITED

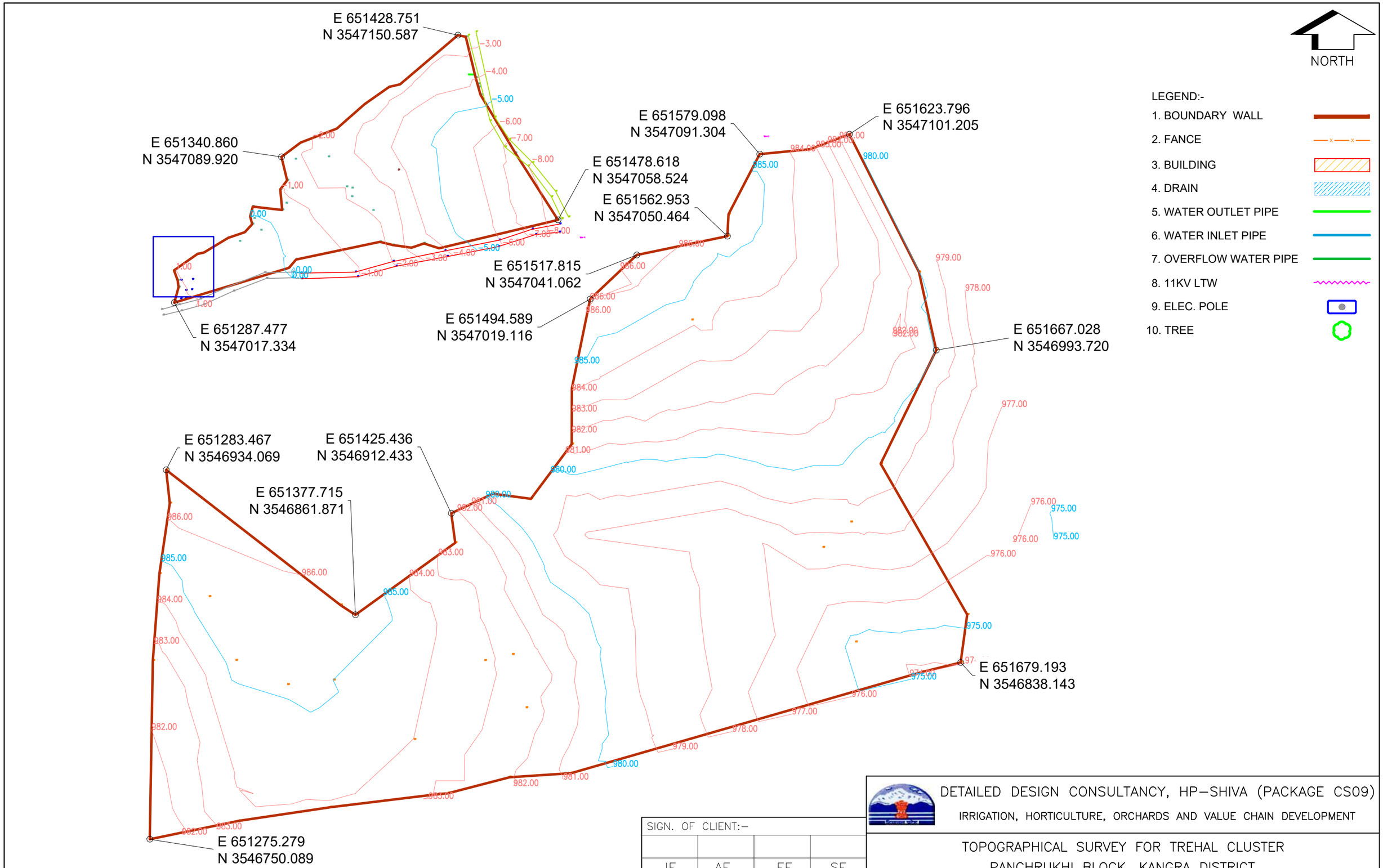
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A-CV-3005-LM-38019	ISSUE P0
DC & DISC: DEL-CV		

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1



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FILE NAME: 12503A-CV-38020-Rev-P0

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TOPOGRAPHICAL SURVEY FOR TREHAL CLUSTER

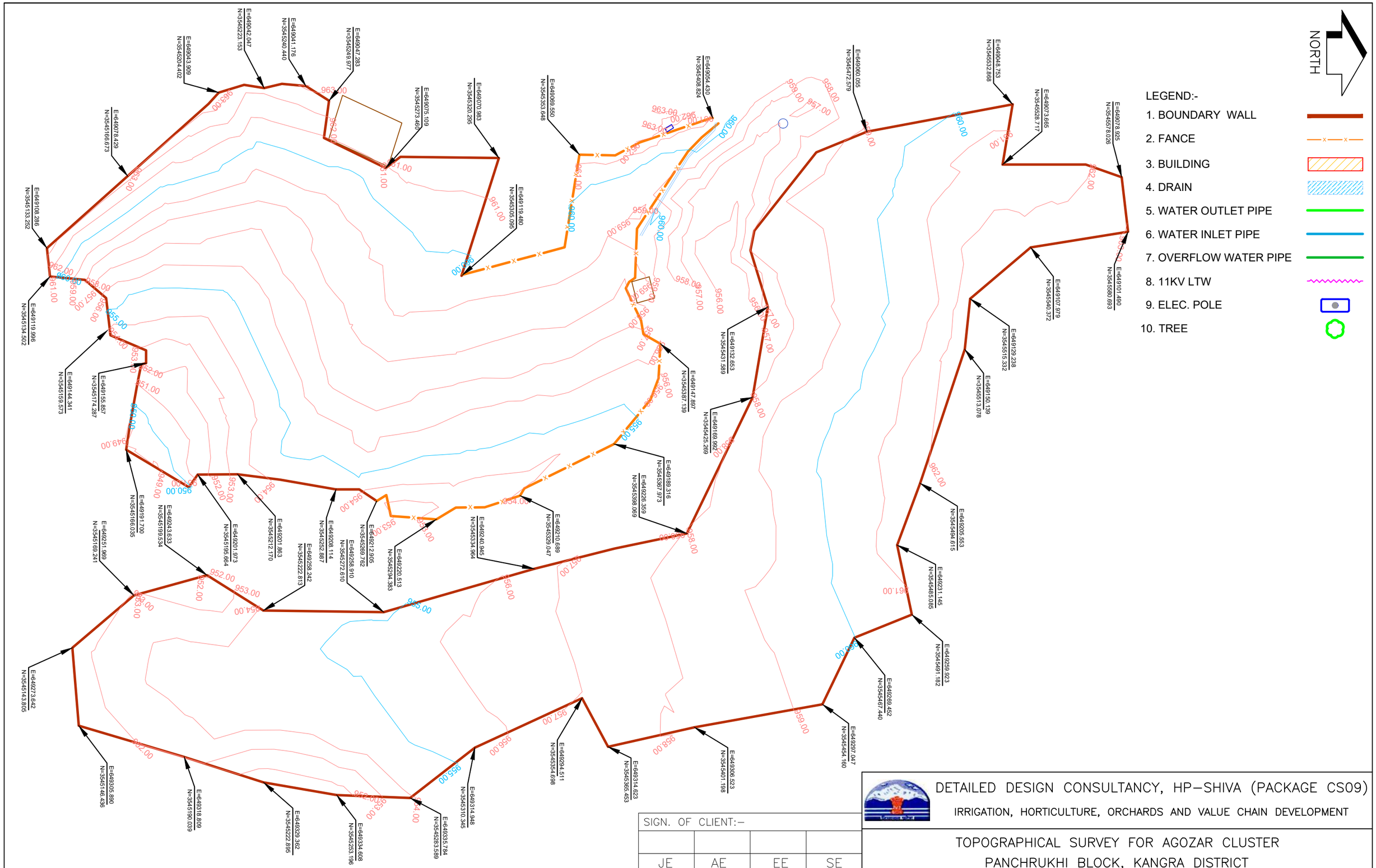
PANCHRUKHI BLOCK, KANGRA DISTRICT

TATA CONSULTING ENGINEERS LIMITED

MUMBAI

SCALE : NTS	DWG NO. TCE.12503A-CV-3005-LM-38020	ISSUE P0
DC & DISC: DEL-CV		

SIZE-A3



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FILE NAME: 12503A-CV-38021-Rev-P0

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TOPOGRAPHICAL SURVEY FOR AGOZAR CLUSTER
PANCHRUKHI BLOCK, KANGRA DISTRICT

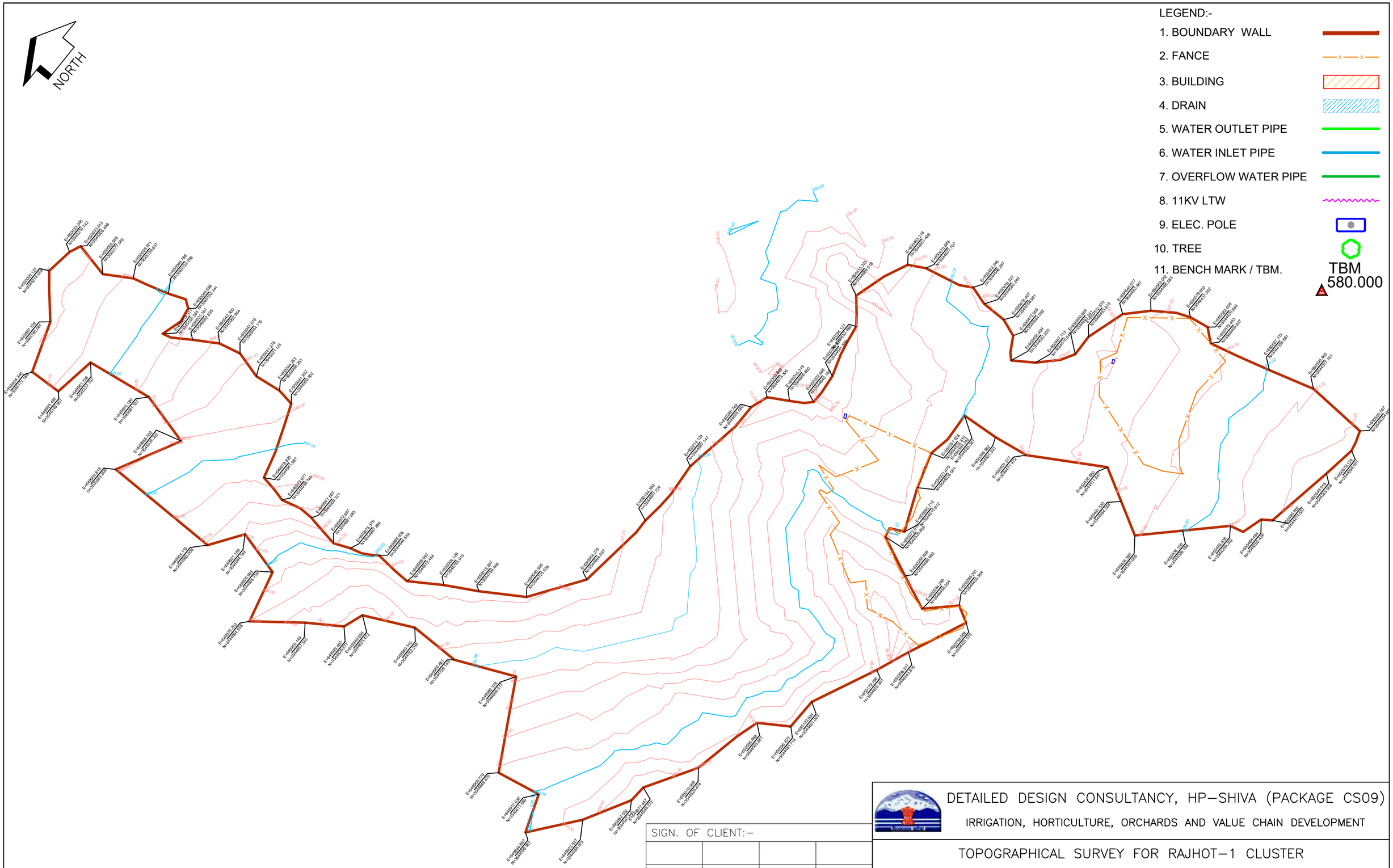
TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A-CV-3005-LM-38021	ISSUE P0
DC & DISC: DEL-CV		

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1



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FILE NAME: 12503A-CV-38022-Rev-P0

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TOPOGRAPHICAL SURVEY FOR RAJHOT-1 CLUSTER

PANCHRUKHI BLOCK, KANGRA DISTRICT

TATA CONSULTING ENGINEERS LIMITED

MUMBAI

SCALE : NTS	DWG NO. TCE.12503A-CV-3005-LM-38022		ISSUE P0
DC & DISC: DEL-CV			

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

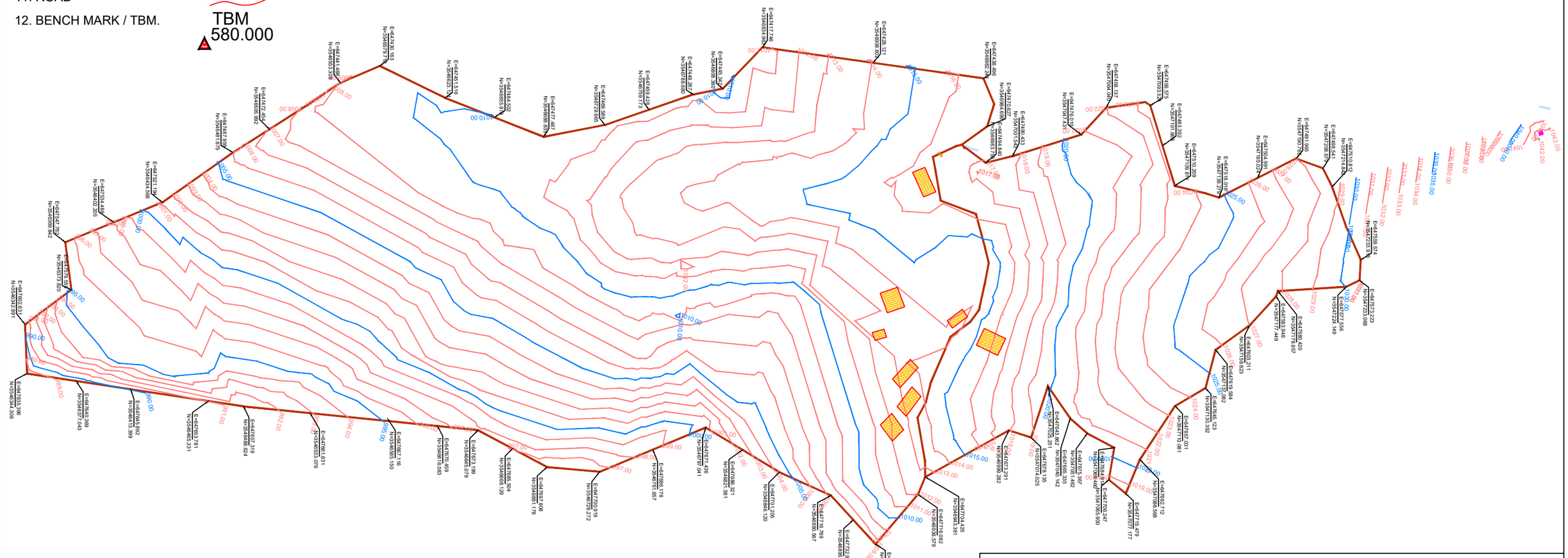
TCE FORM NO. 093 R1

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.

TBM
580.000

NORTH



DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TOPOGRAPHICAL SURVEY FOR LADOH–1 CLUSTER
PANCHRUKHI BLOCK, KANGRA DISTRICT

SIGN. OF CLIENT:–

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FILE NAME: 12503A–CV–38023–Rev–P0

TATA CONSULTING ENGINEERS LIMITED
MUMBAI

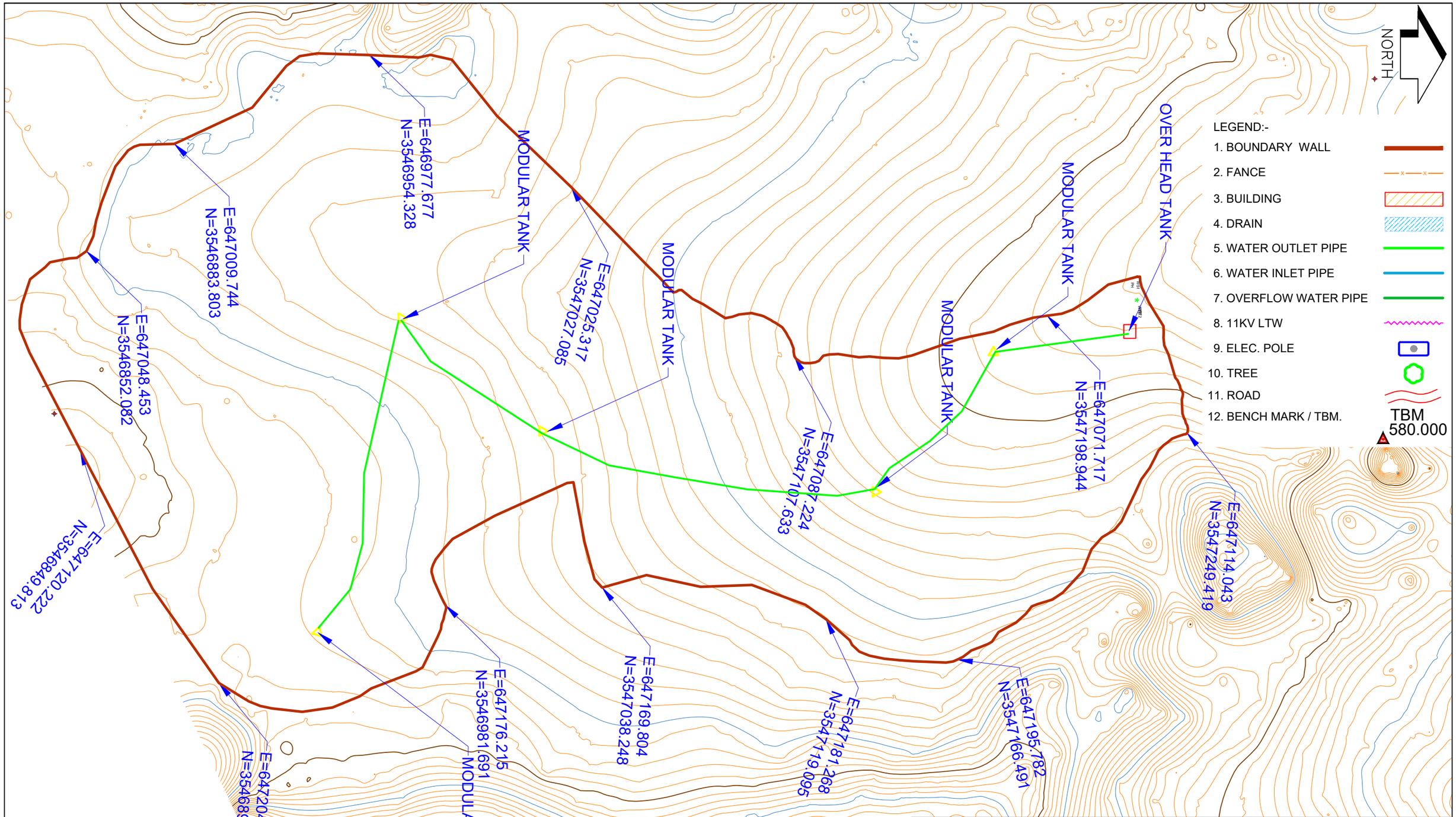
SCALE : NTS

DC & DISC: DEL–CV

DWG NO. TCE.12503A–CV–3005–LM–38023

ISSUE P0

SIZE-A3



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FILE NAME: 12503A-CV-38024-Rev-P0

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TOPOGRAPHICAL SURVEY FOR LADOH-2 CLUSTER
PANCHRUKHI BLOCK, KANGRA DISTRICT

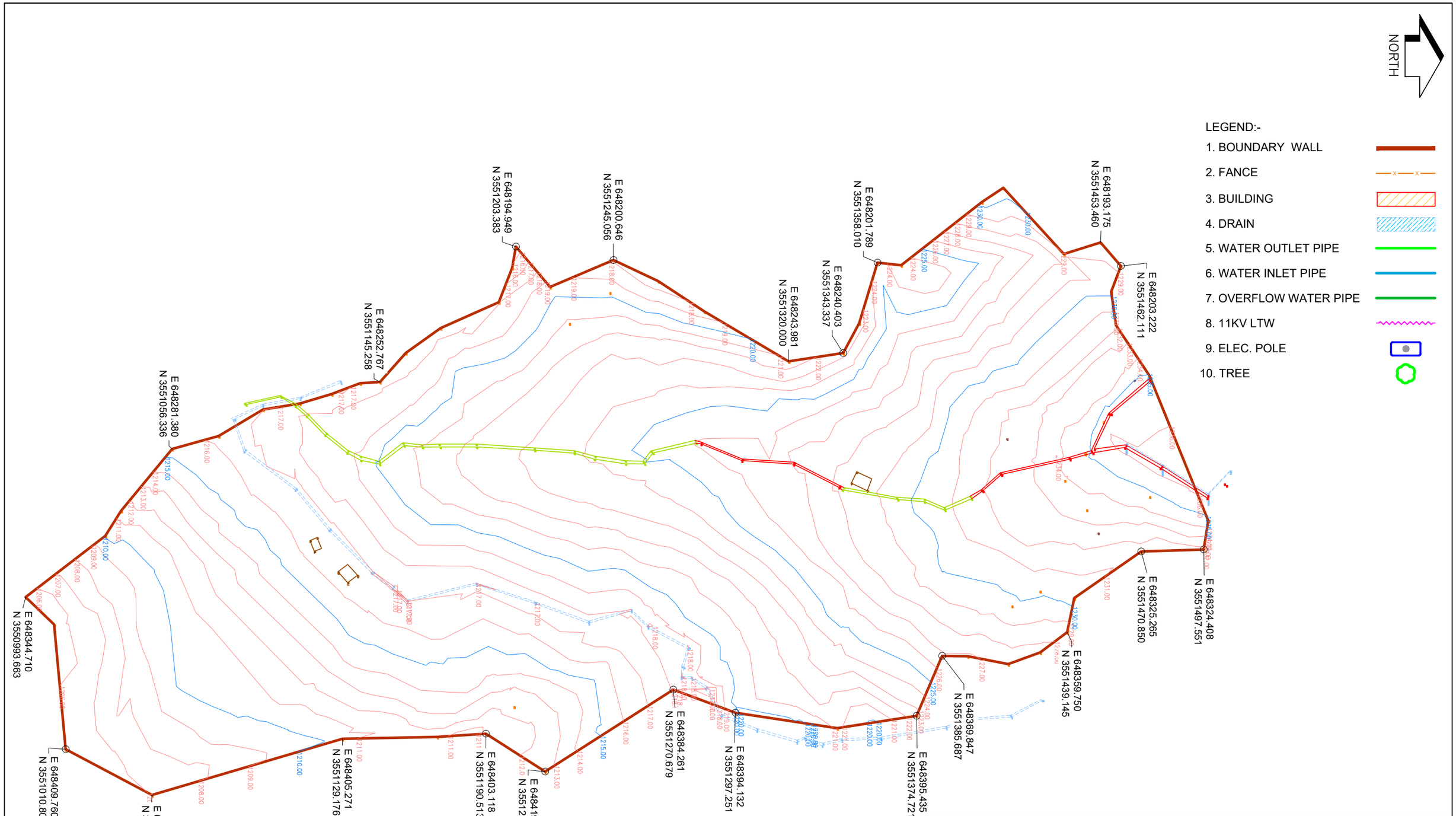
TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A-CV-3005-LM-38024	ISSUE P0
DC & DISC: DEL-CV		

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1



DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TOPOGRAPHICAL SURVEY FOR BANURI CLUSTER
PANCHRUKHI BLOCK, KANGRA DISTRICT

SIGN. OF CLIENT:–

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PURPOSE: FOR TENDER ONLY

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FILE NAME: 12503A–CV–38025–Rev–P0

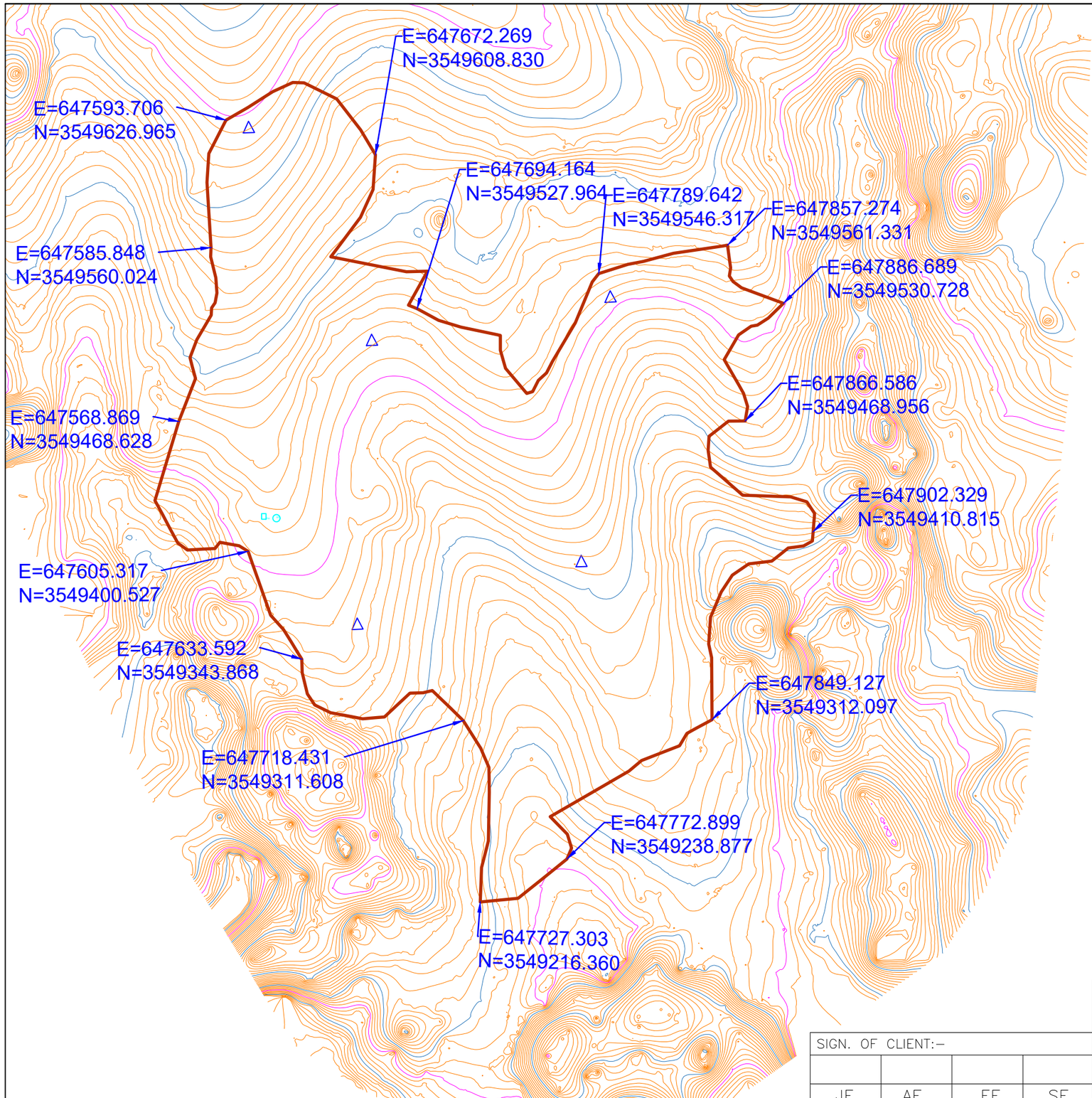
TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS
DC & DISC: DEL–CV

DWG NO. TCE.12503A–CV–3005–LM–38025

ISSUE P0

SIZE-A3



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.

TBM 580.000

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FILE NAME: 12503A–CV–38027–Rev–P0

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TOPOGRAPHICAL SURVEY FOR SALIANA CLUSTER
PANCHRUKHI BLOCK, KANGRA DISTRICT

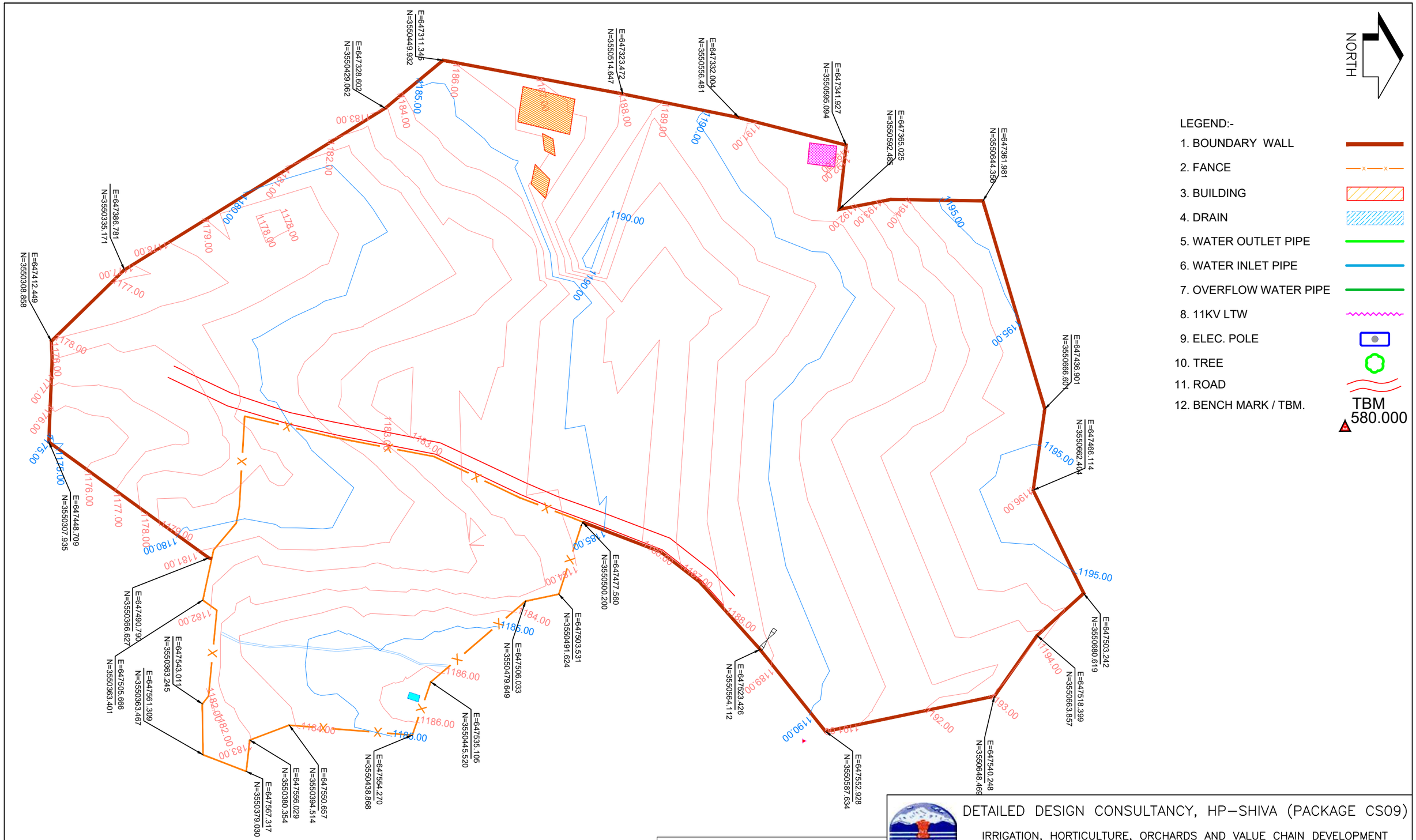
TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A–CV–3005–LM–38027	ISSUE P0
DC & DISC: DEL–CV		

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1



SIGN. OF CLIENT:–

JE	AE	EE	SE

PURPOSE: FOR TENDER ONLY

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ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd-mm-yyyy)
					CLEARED								
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P0	SIGN.												
	INITIALS	KKS	SKAC	DVB							MK	DK	02-07-2022
	REVISIONS												

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FILE NAME: 12503A–CV–38028–Rev–P0

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TOPOGRAPHICAL SURVEY FOR MOLICHAK CLUSTER
PANCHRUKHI BLOCK, KANGRA DISTRICT

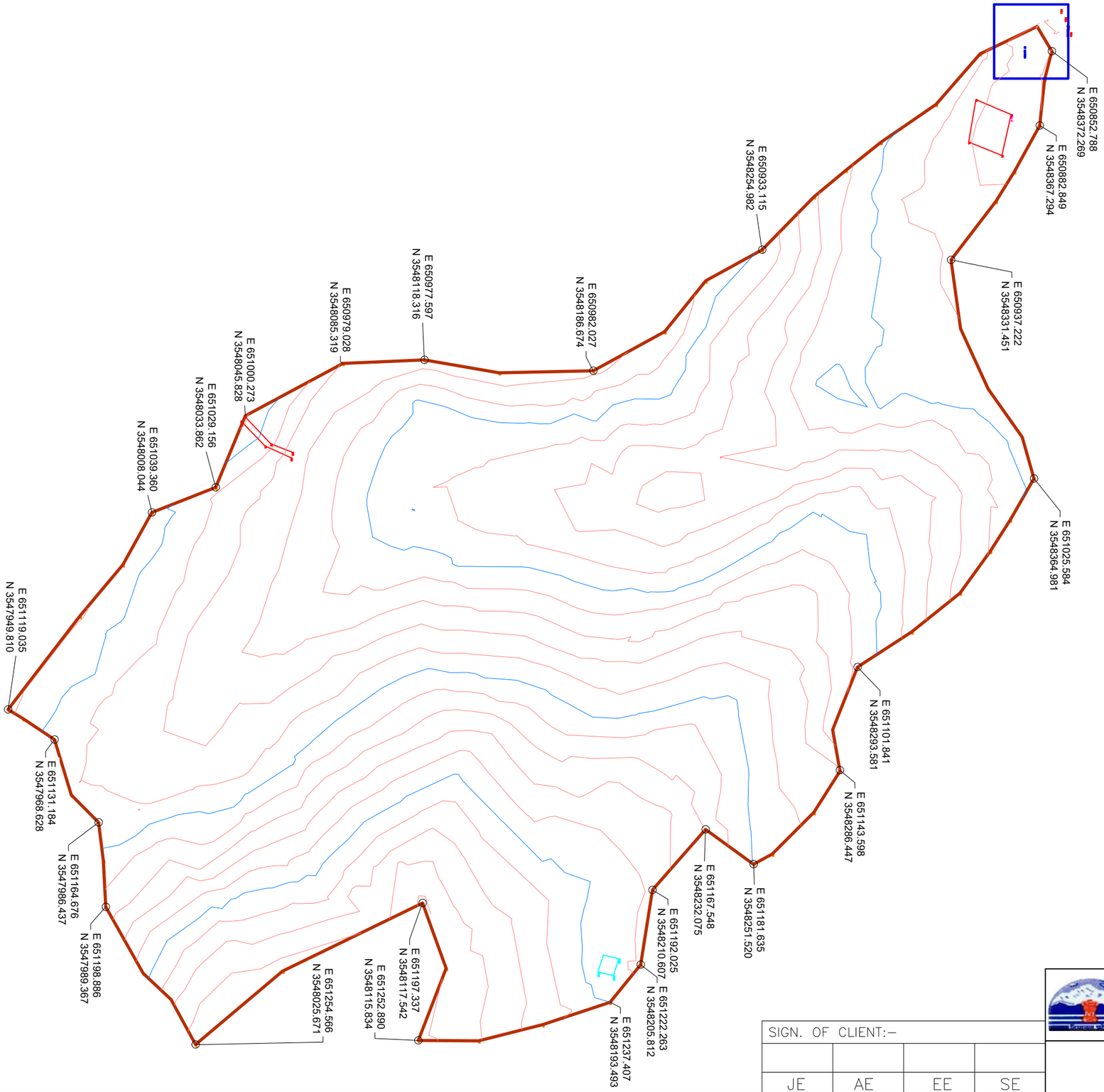
TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A–CV–3005–LM–38028	ISSUE P0
DC & DISC: DEL–CV		

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1



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

	SIGN.												
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	REVISIONS												
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	INITIALS	KKS	SKAC	DVB						MK	DK		02-07-2022
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FILE NAME: 12503A-CV-38029-Rev-P0

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TOPOGRAPHICAL SURVEY FOR JANDPUR CLUSTER
PANCHRUKHI BLOCK, KANGRA DISTRICT

TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A-CV-3005-LM-38029	ISSUE P0	SIZE-A3
DC & DISC: DEL-CV			

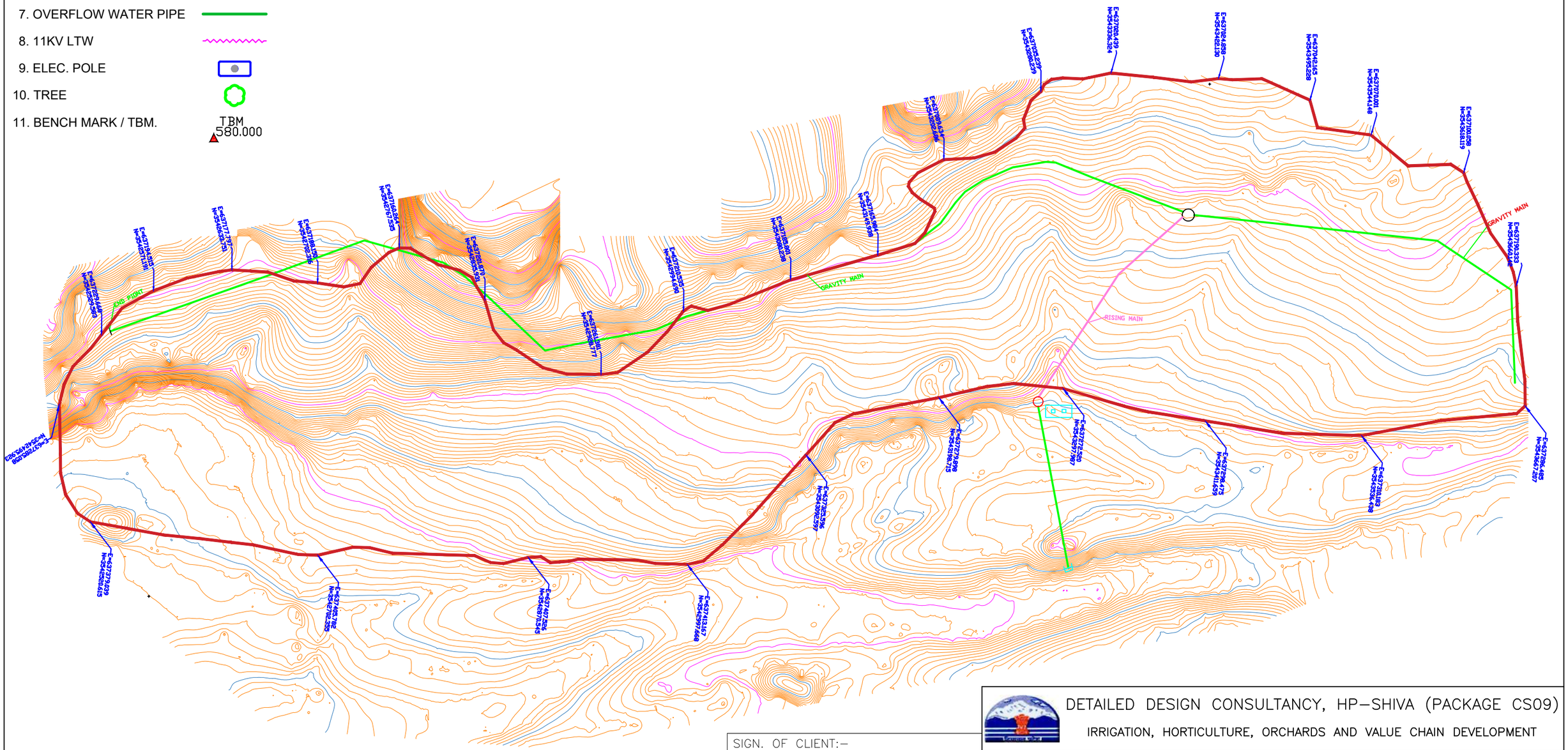
FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1

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. BENCH MARK / TBM. — TBM 580.000

NORTH



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FILE NAME: 12503A-CV-38030-Rev-P0

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TOPOGRAPHICAL SURVEY FOR DHEERA-1 & 2 CLUSTER
SULLAH BLOCK, KANGRA DISTRICT

TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A-CV-3005-LM-38030		ISSUE P0
DC & DISC: DEL-CV			

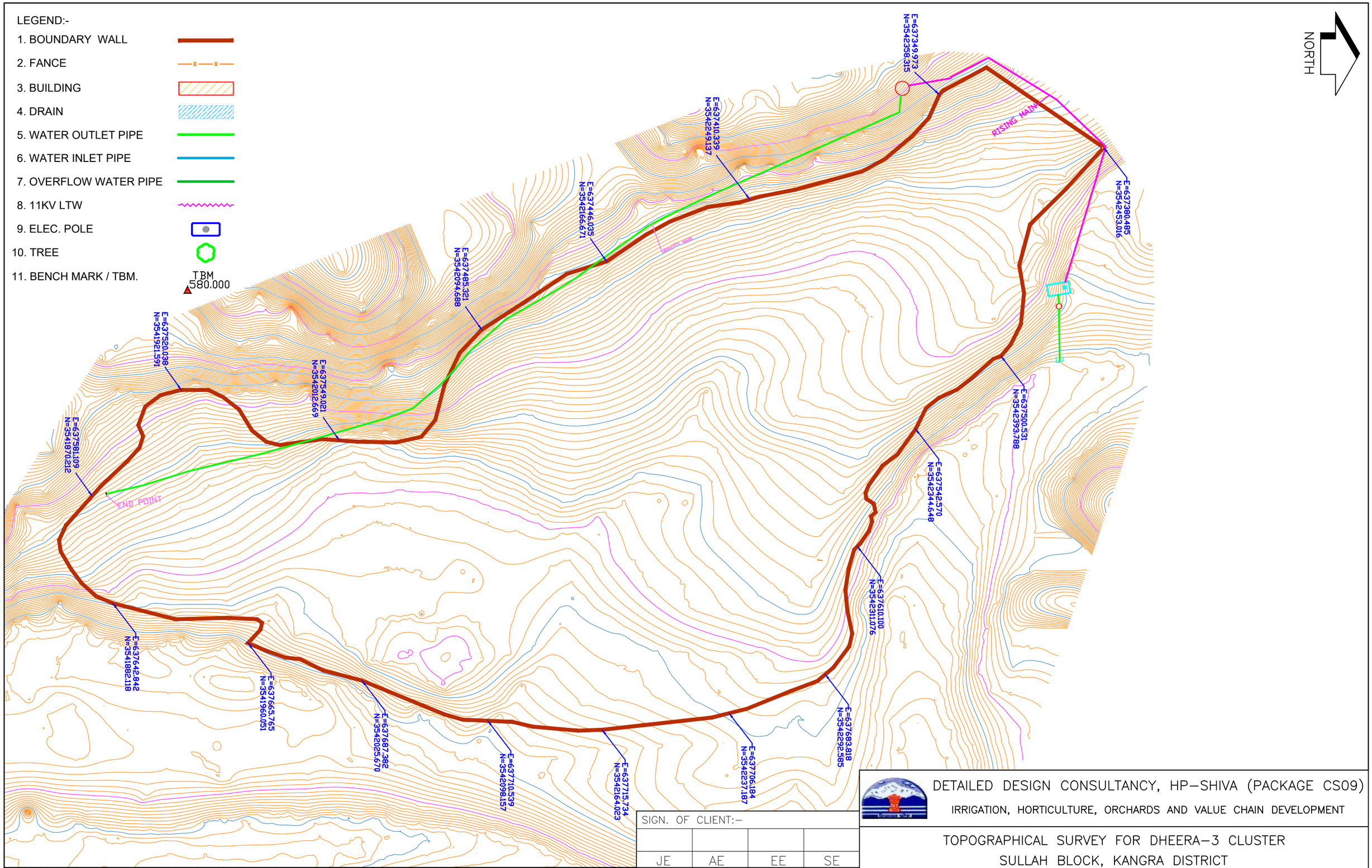
SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1

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. BENCH MARK / TBM. TBM 580.000



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FILE NAME: 12503A-CV-38031-Rev-P0

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TOPOGRAPHICAL SURVEY FOR DHEERA-3 CLUSTER SULLAH BLOCK, KANGRA DISTRICT

TATA CONSULTING ENGINEERS LIMITED

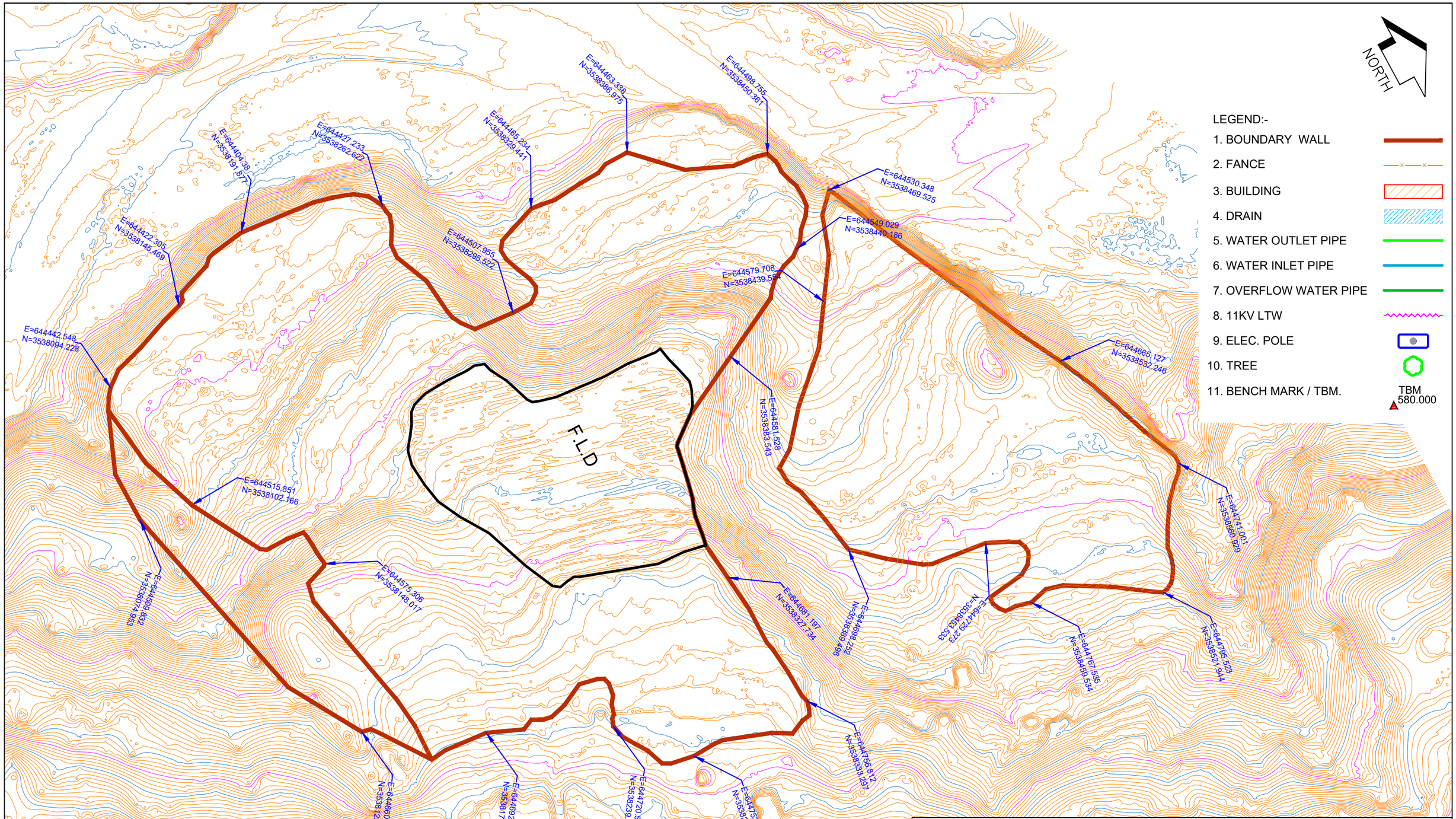
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A-CV-3005-LM-38031	ISSUE P0
DC & DISC: DEL-CV		

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1



DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TOPOGRAPHICAL SURVEY FOR CHAINCHADI– KUTHERA CLUSTER
SULLAH BLOCK, KANGRA DISTRICT

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FILE NAME: 12503A–CV–38032–Rev–P0

TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS
DC & DISC: DEL–CV

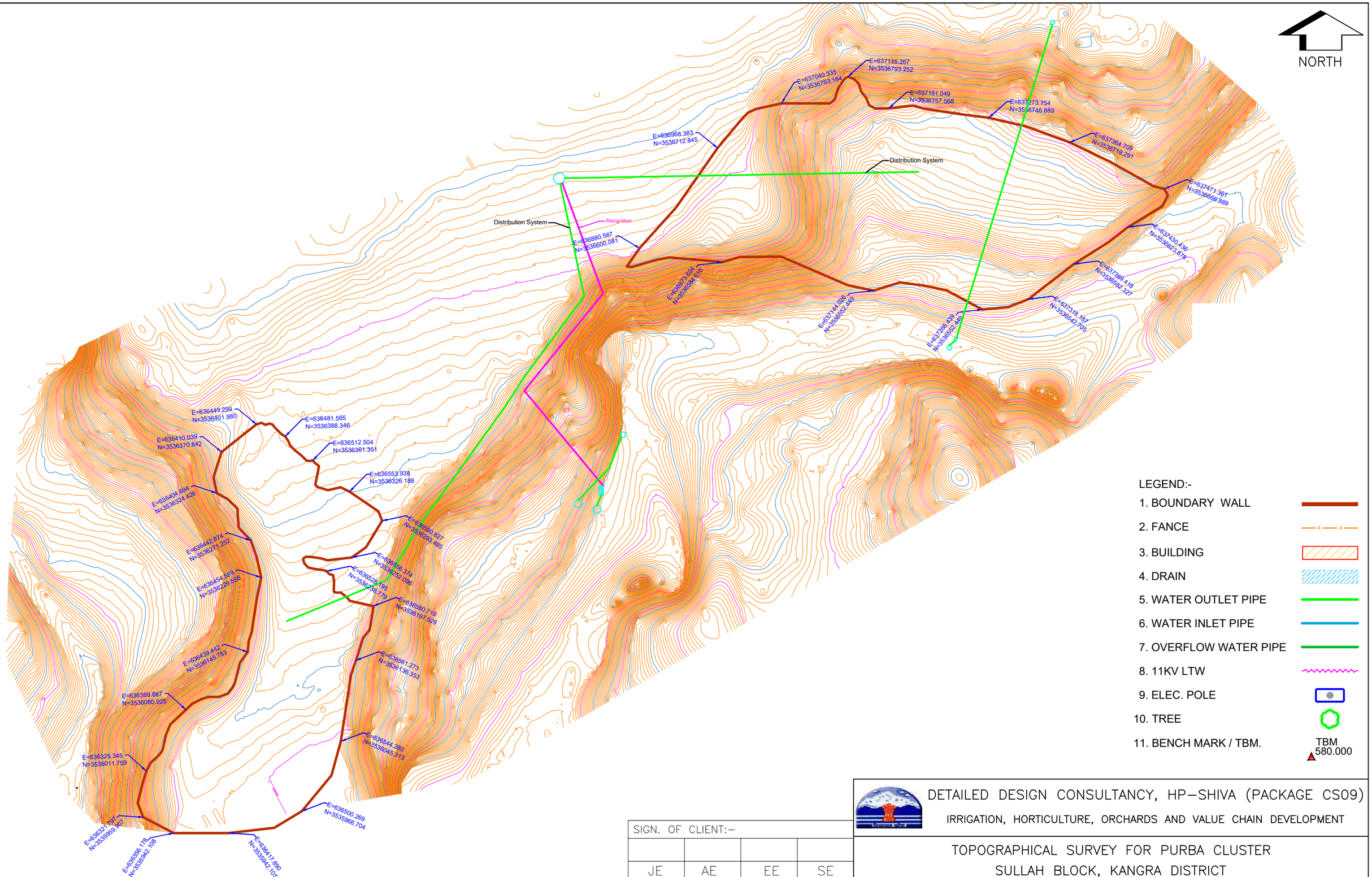
DWG NO. TCE.12503A–CV–3005–LM–38032

ISSUE P0

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1



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FILE NAME: 12503A–CV–38033–Rev–P0

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TOPOGRAPHICAL SURVEY FOR PURBA CLUSTER
SULLAH BLOCK, KANGRA DISTRICT

TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A–CV–3005–LM–38033		ISSUE P0
DC & DISC: DEL–CV			

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

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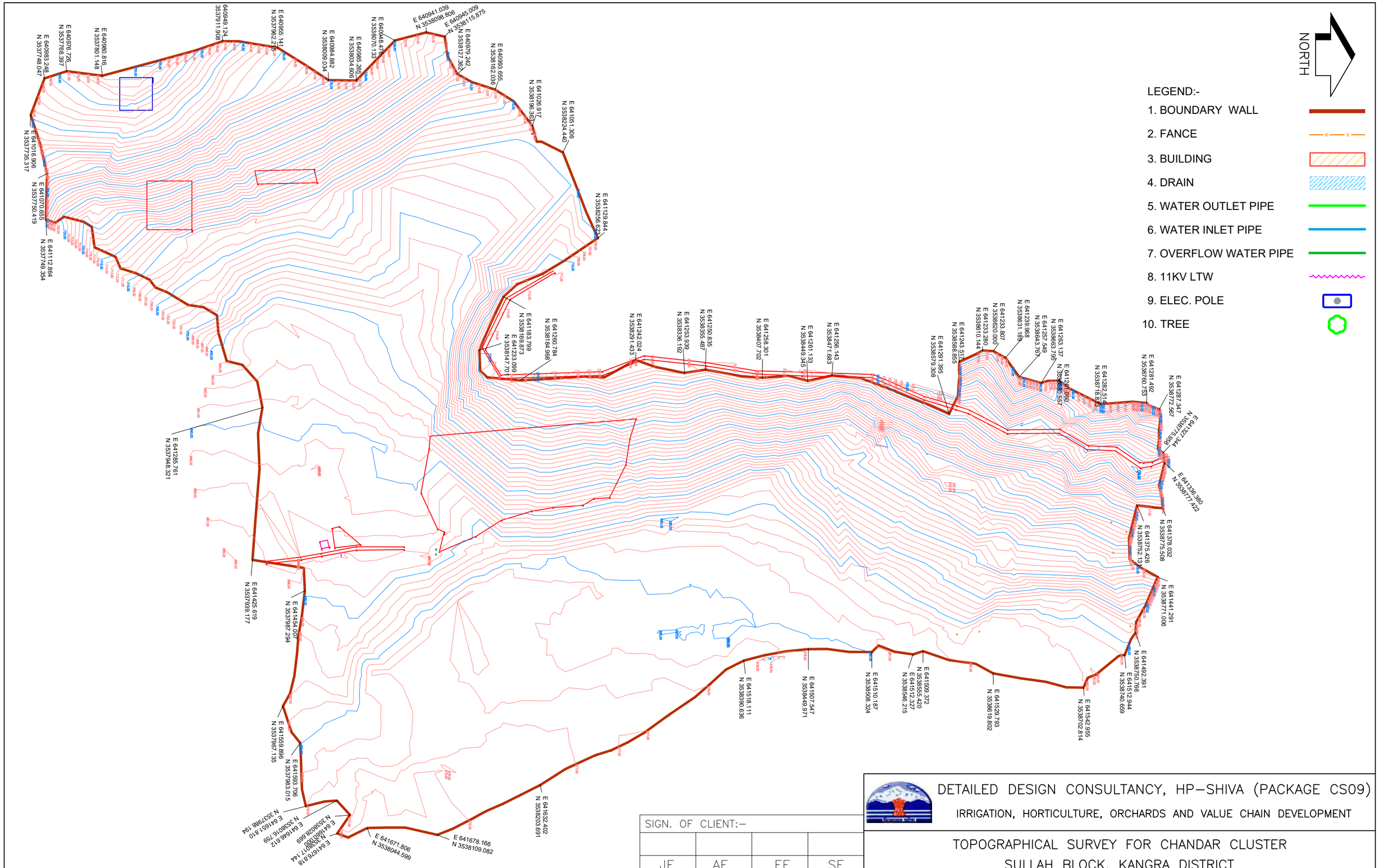

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TOPOGRAPHICAL SURVEY FOR CHANDAR CLUSTER SULLAH BLOCK, KANGRA DISTRICT

SIGN. OF CLIENT:–

JE	AE	EE	SE

PURPOSE: FOR TENDER ONLY

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	INITIALS													
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FILE NAME: 12503A–CV–38034–Rev–P0

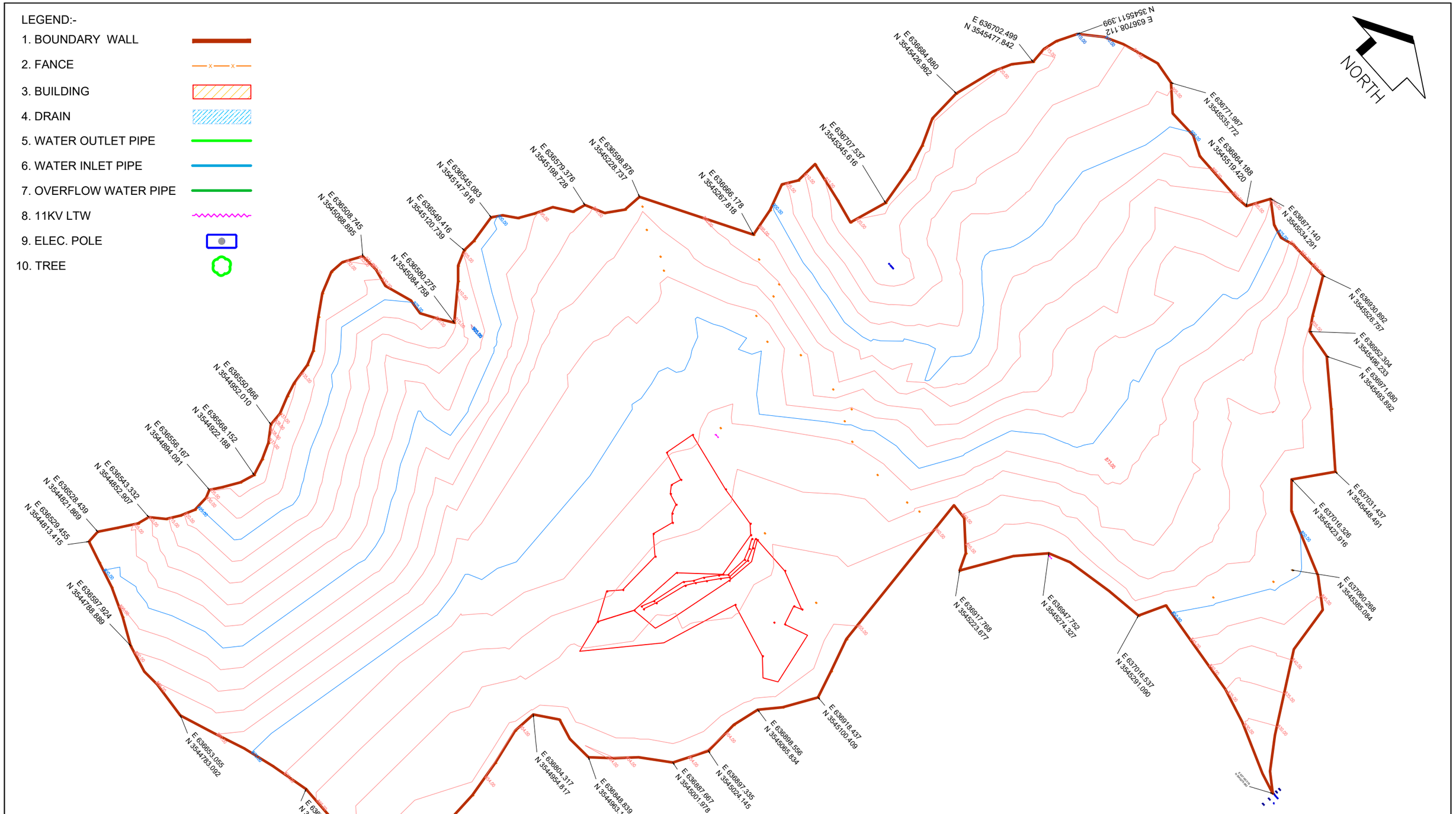
TATA CONSULTING ENGINEERS LIMITED

MUMBAI

SCALE : NTS	DWG NO. TCE.12503A–CV–3005–LM–38034	ISSUE P0	SIZE-A3
DC & DISC: DEL–CV			

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



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DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TOPOGRAPHICAL SURVEY FOR GAGAL KHAS CLUSTER
SULLAH BLOCK, KANGRA DISTRICT

TATA CONSULTING ENGINEERS LIMITED
MUMBAI

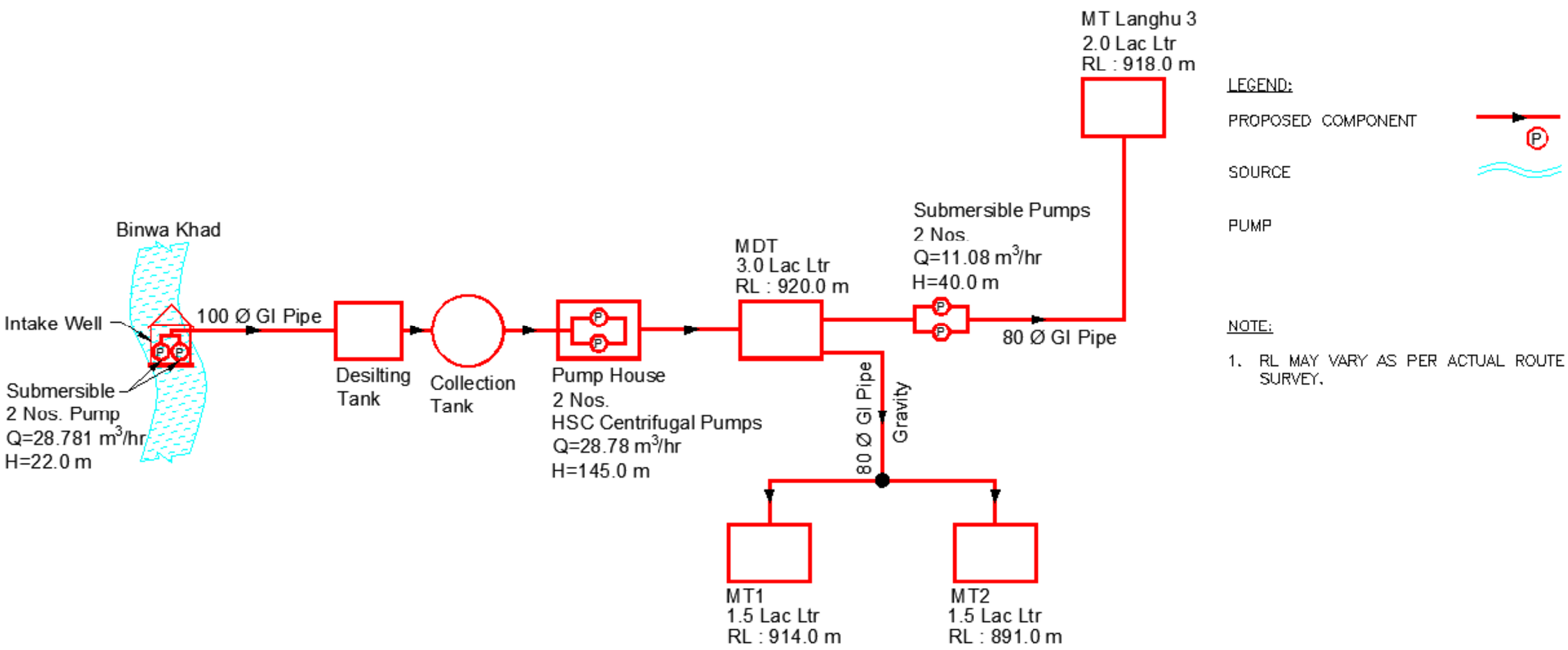
SCALE : NTS	DWG NO. TCE.12503A–CV–3005–LM–38035		ISSUE P0
DC & DISC: DEL–CV			

FILE NAME: 12503A–CV–38035–Rev–P0

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1



NOTE:

1. RL MAY VARY AS PER ACTUAL ROUTE SURVEY.

FLOW DIAGRAM – PROPOSED LIS LANGHU (1, 2 & 3) (NEW SCHEME – 21.86 Ha)

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

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SIGN. OF CLIENT:–

JE	AE	EE	SE

PURPOSE : FOR TENDER ONLY

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FILE NAME: 12503A–CV–38151–Rev–P0

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

FLOW DIAGRAM FOR LIS ON BINWA KHAD
LANGHU 1 & 2 AND Langhu 3 CLUSTER
BAIJNATH BLOCK, KANGRA DISTRICT

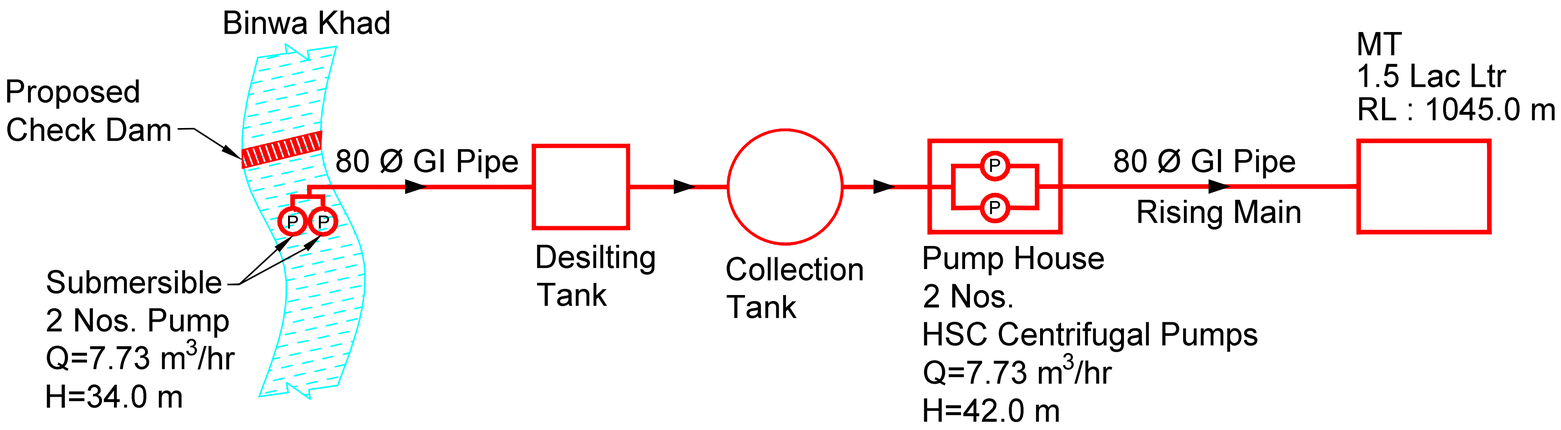
TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A–CV–3082–FD–38151	ISSUE P0
DC & DISC: DEL–CV		

SIZE–A3

FILE NAME: F–093–Rev–R1.DWG

TCE FORM NO. 093 R1



LEGEND:

PROPOSED COMPONENT

SOURCE

PUMP (P)

NOTE:

1. ALL PIPE DIAMETERS ARE IN MILLIMETER.

FLOW DIAGRAM – PROPOSED LIS MANGHOTA (NEW SCHEME – 6.0 Ha)

	SIGN.												
	INITIALS												
	REVISIONS												
P0	SIGN.												
	INITIALS	KKS	SKAC	DVB							MK	DK	10-07-2022
	REVISIONS												
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd-mm-yyyy)
					CLEARED								

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SIGN. OF CLIENT:–

JE	AE	EE	SE

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FILE NAME: 12503A–CV–38152–Rev–P0

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

FLOW DIAGRAM FOR LIS MANGHOTA

BAIJNATH BLOCK, KANGRA DISTRICT

TATA CONSULTING ENGINEERS LIMITED

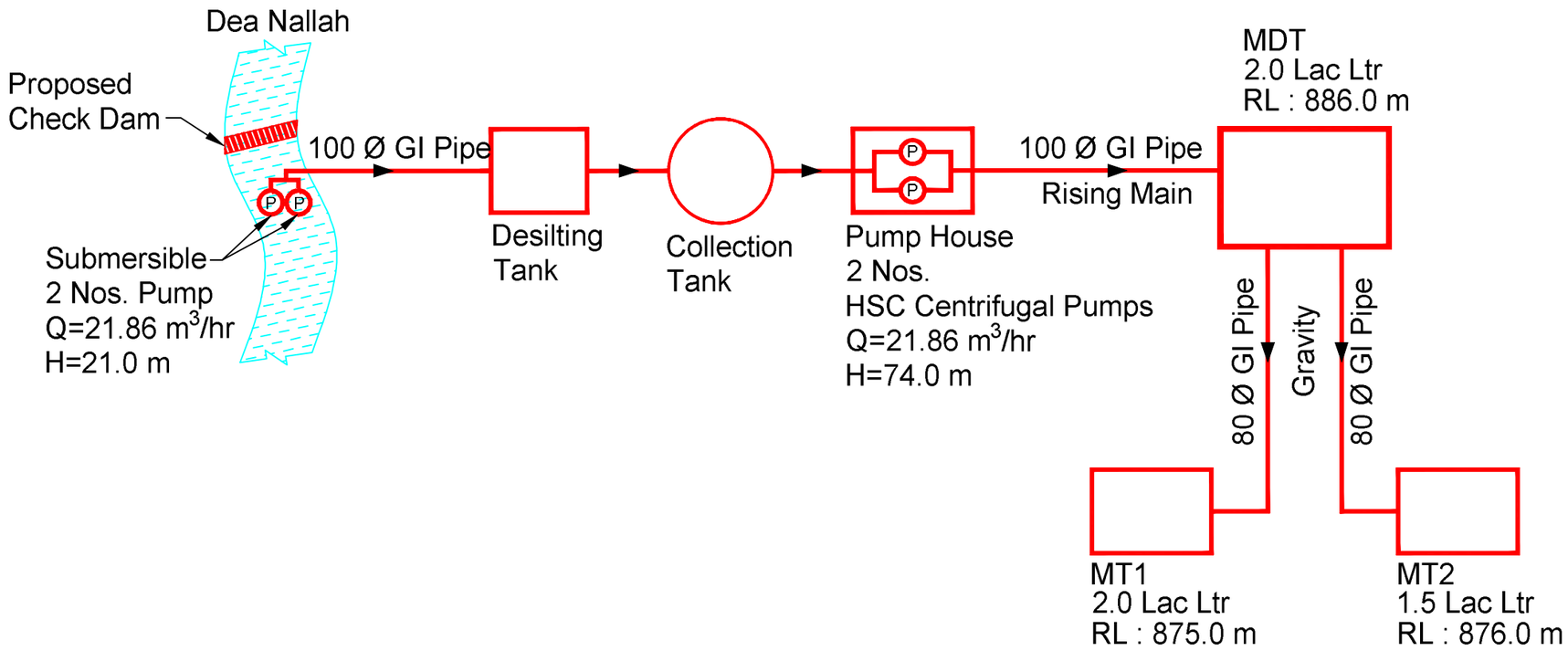
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A–CV–3082–FD–38152	ISSUE P0
DC & DISC: DEL–CV		

SIZE–A3

FILE NAME: F–093–Rev–R1.DWG

TCE FORM NO. 093 R1



LEGEND:

PROPOSED COMPONENT

SOURCE

PUMP

NOTE:

1. ALL PIPE DIAMETERS ARE IN MILLIMETER.

FLOW DIAGRAM – PROPOSED LIS KUDAIL (NEW SCHEME – 16.61 Ha)

	SIGN.												
	INITIALS												
	REVISIONS												
P0	SIGN.												
	INITIALS	KKS	SKAC	DVB							MK	DK	10-07-2022
	REVISIONS												
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd-mm-yyyy)
					CLEARED								

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SIGN. OF CLIENT:–

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FILE NAME: 12503A–CV–38153–Rev–P0

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

FLOW DIAGRAM FOR LIS KUDAIL

BAIJNATH BLOCK, KANGRA DISTRICT

TATA CONSULTING ENGINEERS LIMITED

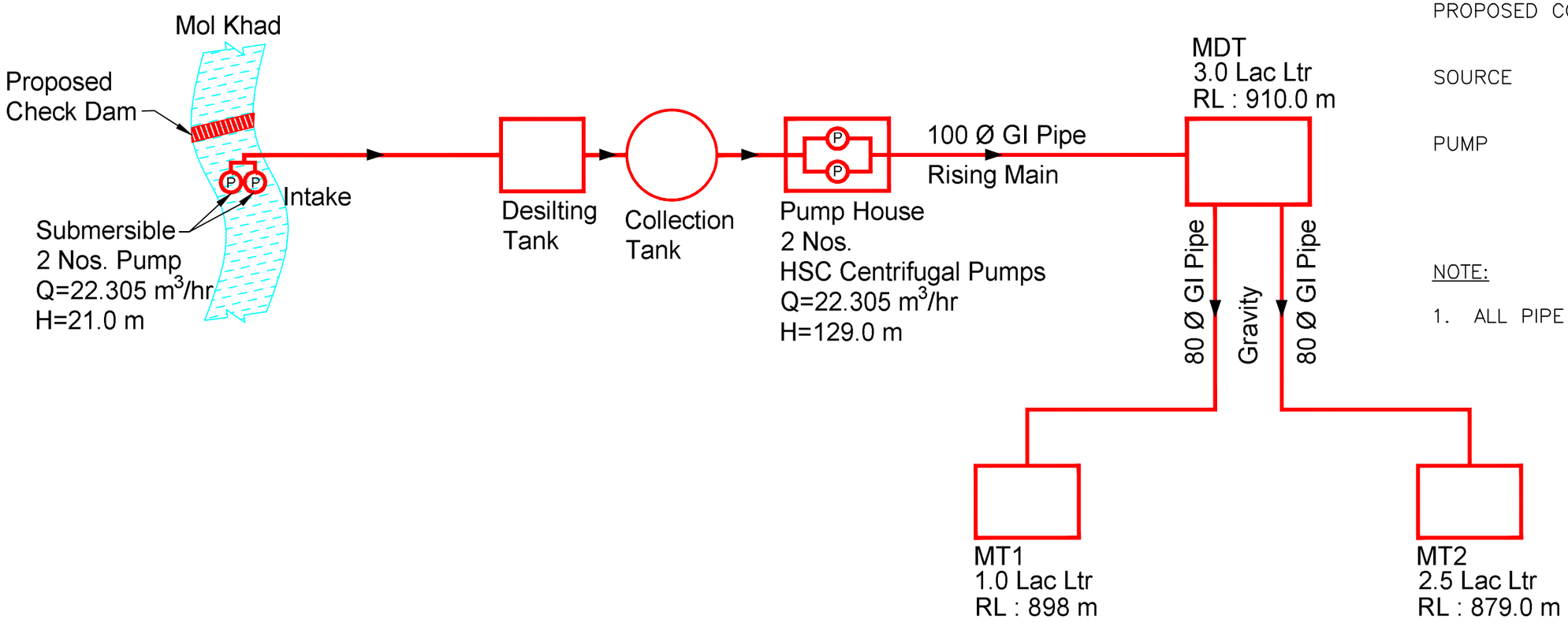
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A–CV–3082–FD–38153	ISSUE P0
DC & DISC: DEL–CV		

SIZE–A3

FILE NAME: F–093–Rev–R1.DWG

TCE FORM NO. 093 R1



LEGEND:

PROPOSED COMPONENT

SOURCE

PUMP

NOTE:

1. ALL PIPE DIAMETERS ARE IN MILLIMETER.

FLOW DIAGRAM – PROPOSED LIS THANDOL (NEW SCHEME – 16.95 Ha)

	SIGN.													
	INITIALS													
	REVISIONS													
P0	SIGN.													
	INITIALS	KKS	SKAC	DVB							MK	DK		10-07-2022
	REVISIONS													
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd-mm-yyyy)	
					CLEARED									

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SIGN. OF CLIENT:–

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FILE NAME: 12503A–CV–38154–Rev–P0

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

FLOW DIAGRAM FOR LIS THANDOL

BHAWARNA BLOCK, KANGRA DISTRICT

TATA CONSULTING ENGINEERS LIMITED

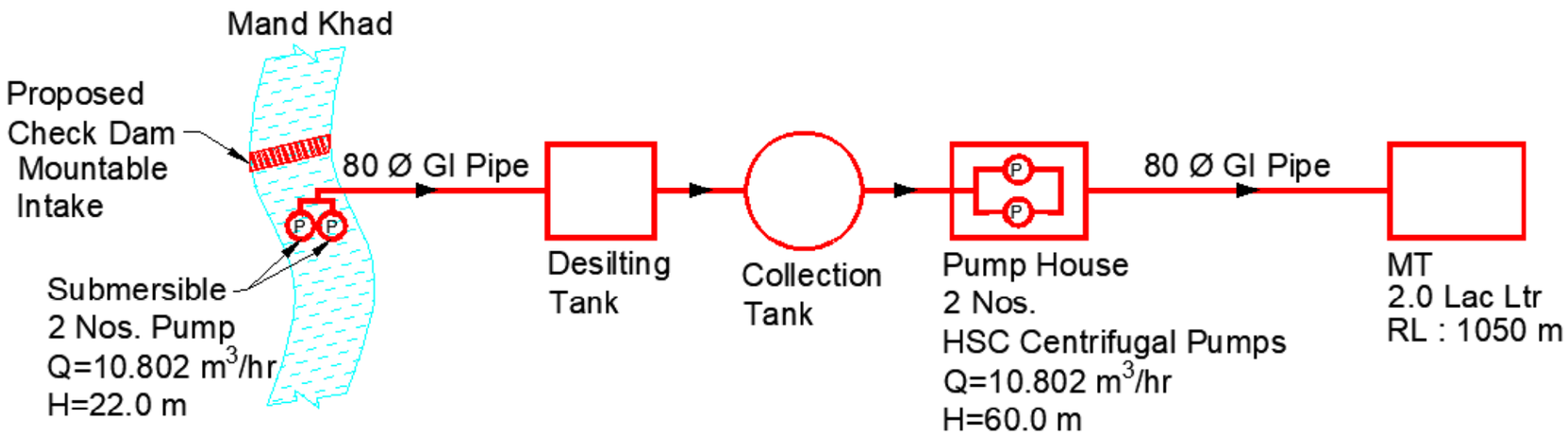
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A–CV–3082–FD–38154	ISSUE P0
DC & DISC: DEL–CV		

SIZE–A3

FILE NAME: F–093–Rev–R1.DWG

TCE FORM NO. 093 R1



LEGEND:

PROPOSED COMPONENT

SOURCE

PUMP

NOTE:

1. ALL PIPE DIAMETERS ARE IN MILLIMETER.

FLOW DIAGRAM – PROPOSED LIS GHAR (NEW SCHEME – 8.21 Ha)

	SIGN.													
	INITIALS													
	REVISIONS													
P0	SIGN.													
	INITIALS	KKS	SKAC	DVB							MK	DK	10-07-2022	
	REVISIONS													
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd-mm-yyyy)	
					CLEARED									

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FILE NAME: 12503A–CV–38155–Rev–P0

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

FLOW DIAGRAM FOR LIS GHAR

BHAWARNA BLOCK, KANGRA DISTRICT

TATA CONSULTING ENGINEERS LIMITED

MUMBAI

SCALE : NTS

DC & DISC: DEL–CV

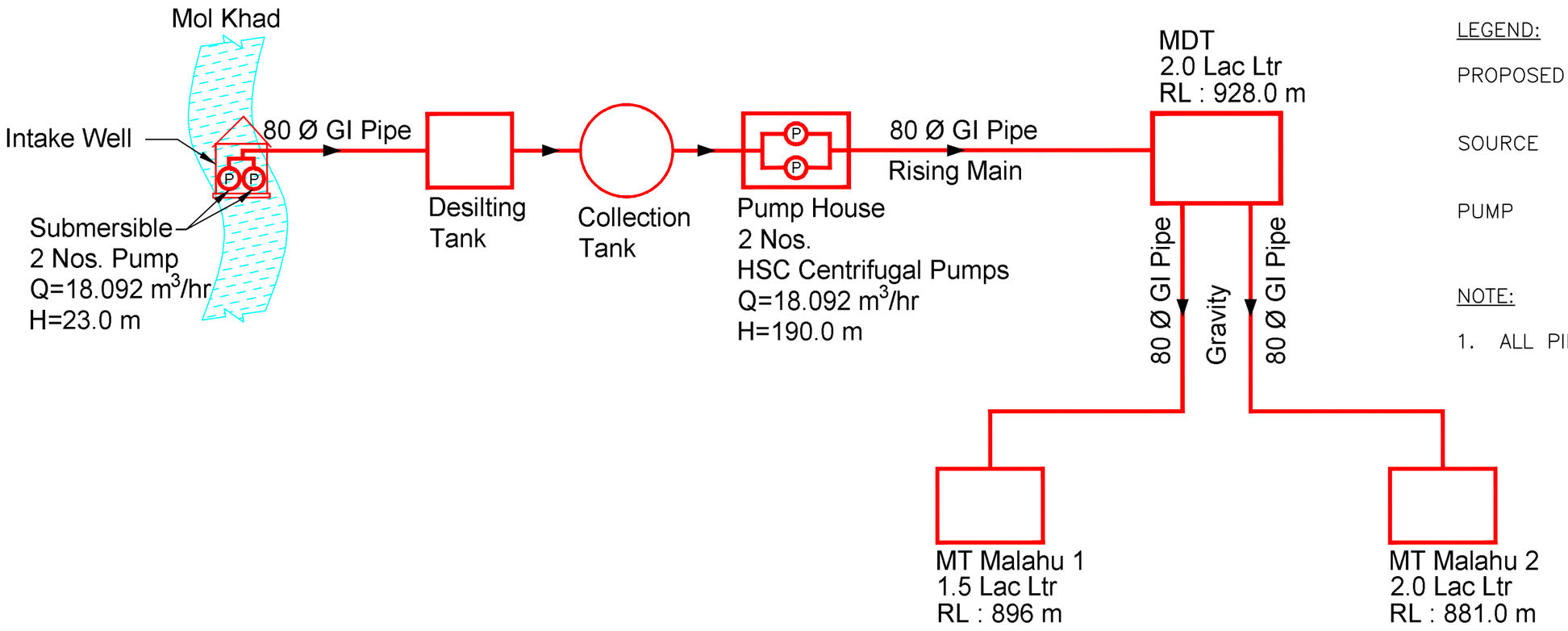
DWG NO. TCE.12503A–CV–3082–FD–38155

ISSUE P0

SIZE–A3

FILE NAME: F–093–Rev–R1.DWG

TCE FORM NO. 093 R1



LEGEND:

PROPOSED COMPONENT

SOURCE

PUMP

NOTE:

1. ALL PIPE DIAMETERS ARE IN MILLIMETER.

FLOW DIAGRAM – PROPOSED LIS ON MOL KHAD– MALAHU 1 & 2 CLUSTER (NEW SCHEME – 13.75 Ha)

	SIGN.												
	INITIALS												
	REVISIONS												
P0	SIGN.												
	INITIALS	KKS	SKAC	DVB							MK	DK	10-07-2022
	REVISIONS												
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd-mm-yyyy)
					CLEARED								

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FILE NAME: 12503A–CV–38156–Rev–P0

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

FLOW DIAGRAM FOR LIS ON MOL KHAD
MALAHU 1 & 2 CLUSTER
BHAWARNA BLOCK, KANGRA DISTRICT

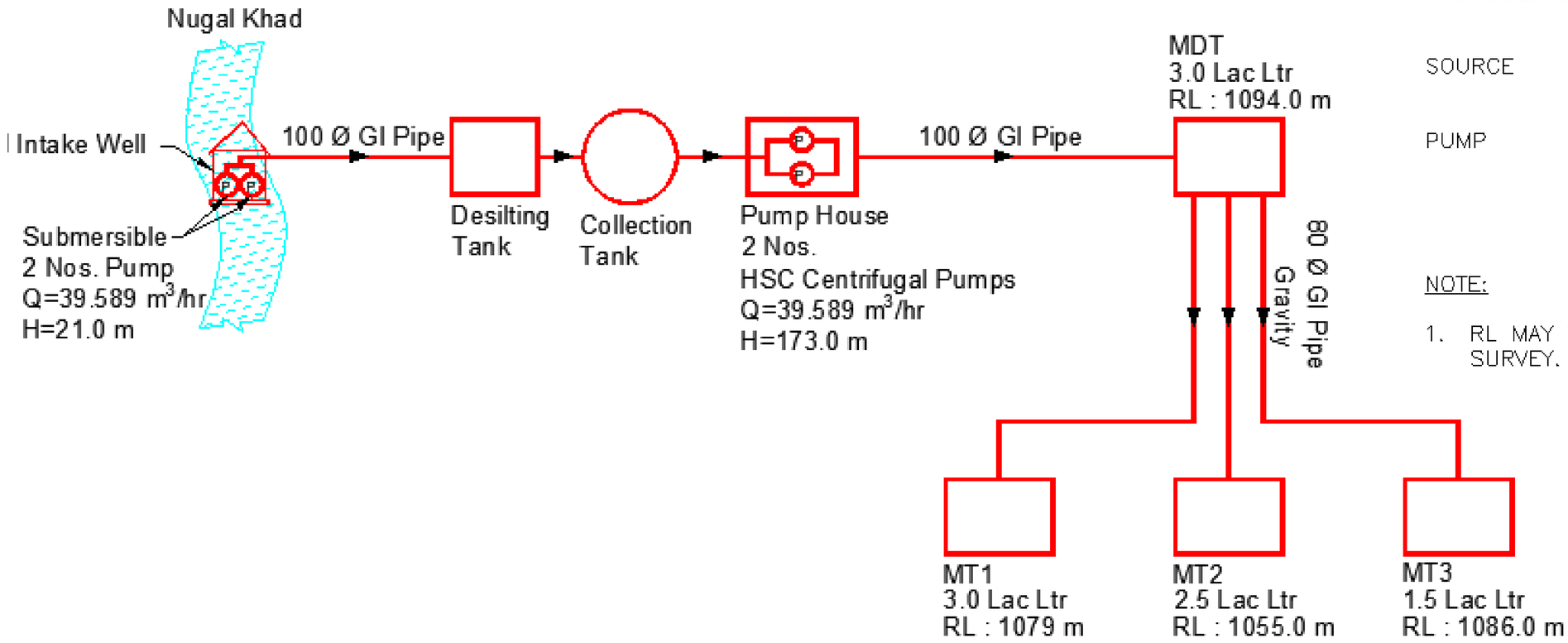
TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A–CV–3082–FD–38156	ISSUE P0
DC & DISC: DEL–CV		

SIZE–A3

FILE NAME: F–093–Rev–R1.DWG

TCE FORM NO. 093 R1



LEGEND:

PROPOSED COMPONENT

SOURCE

PUMP

NOTE:

1. RL MAY VARY AS PER ACTUAL ROUTE SURVEY.

FLOW DIAGRAM – PROPOSED LIS SIDHPUR (NEW SCHEME – 30.09 Ha)

	SIGN.													
	INITIALS													
	REVISIONS													
P0	SIGN.													
	INITIALS	KKS	SKAC	DVB							MK	DK	10-07-2022	
	REVISIONS													
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd-mm-yyyy)	
					CLEARED									

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SIGN. OF CLIENT:–

JE	AE	EE	SE

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FILE NAME: 12503A–CV–38157–Rev–P0

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

FLOW DIAGRAM FOR LIS SIDHPUR

BHAWARNA BLOCK, KANGRA DISTRICT

TATA CONSULTING ENGINEERS LIMITED

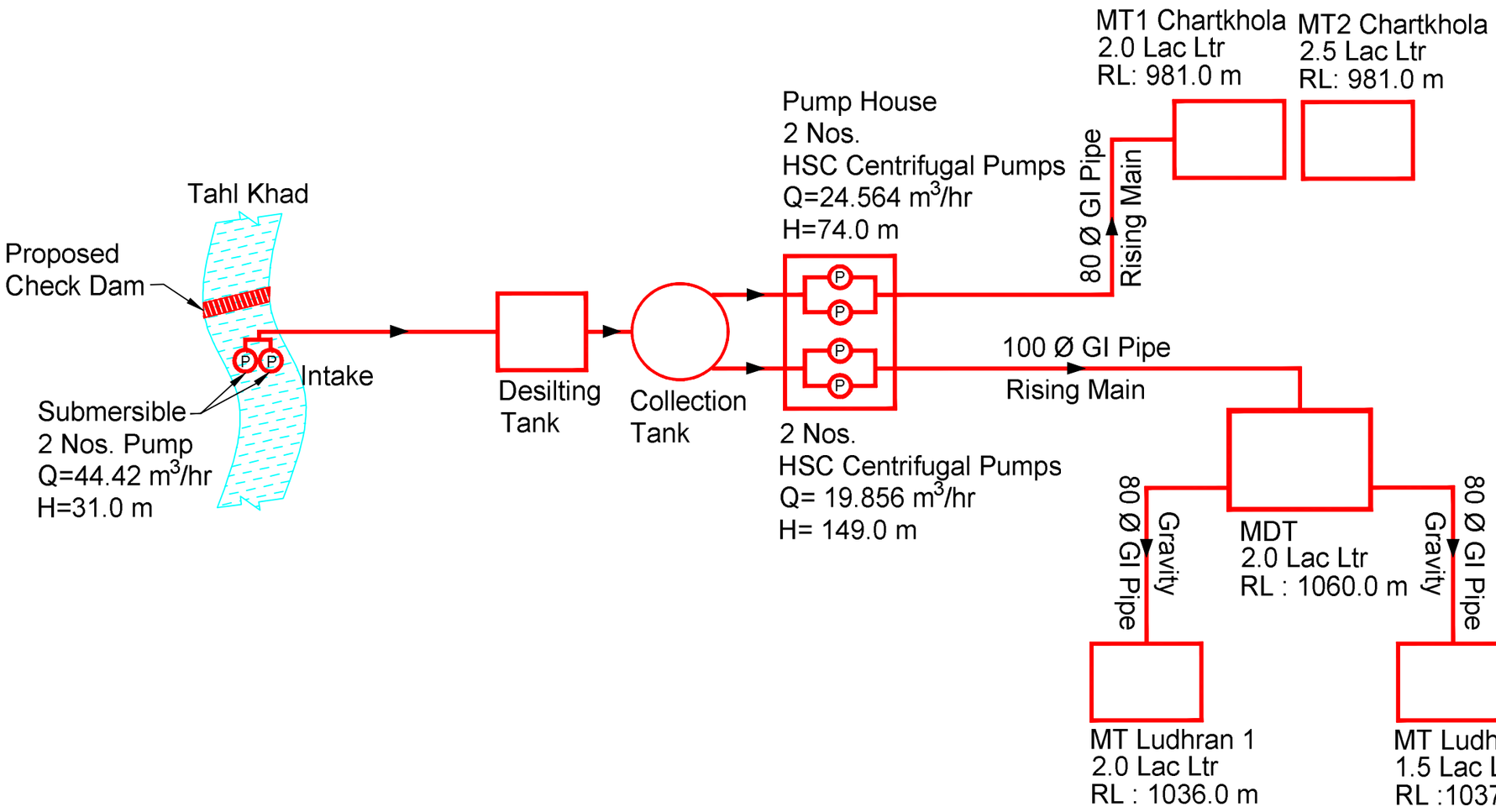
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A–CV–3082–FD–38157	ISSUE P0
DC & DISC: DEL–CV		

SIZE–A3

FILE NAME: F–093–Rev–R1.DWG

TCE FORM NO. 093 R1



LEGEND:

PROPOSED COMPONENT

SOURCE

PUMP

NOTE:

1. ALL PIPE DIAMETERS ARE IN MILLIMETER.

FLOW DIAGRAM – PROPOSED LIS ON TAHL KHAD– LUDHRAN 1 & 2 AND CHARTKHOLA (NEW SCHEME – 33.76 Ha)

	SIGN.												
	INITIALS												
	REVISIONS												
P0	SIGN.												
	INITIALS	KKS	SKAC	DVB							MK	DK	10-07-2022
	REVISIONS												
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd-mm-yyyy)
					CLEARED								

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SIGN. OF CLIENT:–

JE	AE	EE	SE

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FILE NAME: 12503A–CV–38158–Rev–P0

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

FLOW DIAGRAM FOR LIS ON TAHL KHAD
LUDHRAN 1 & 2 AND CHARTKHOLA CLUSTER
BHAWARNA BLOCK, KANGRA DISTRICT

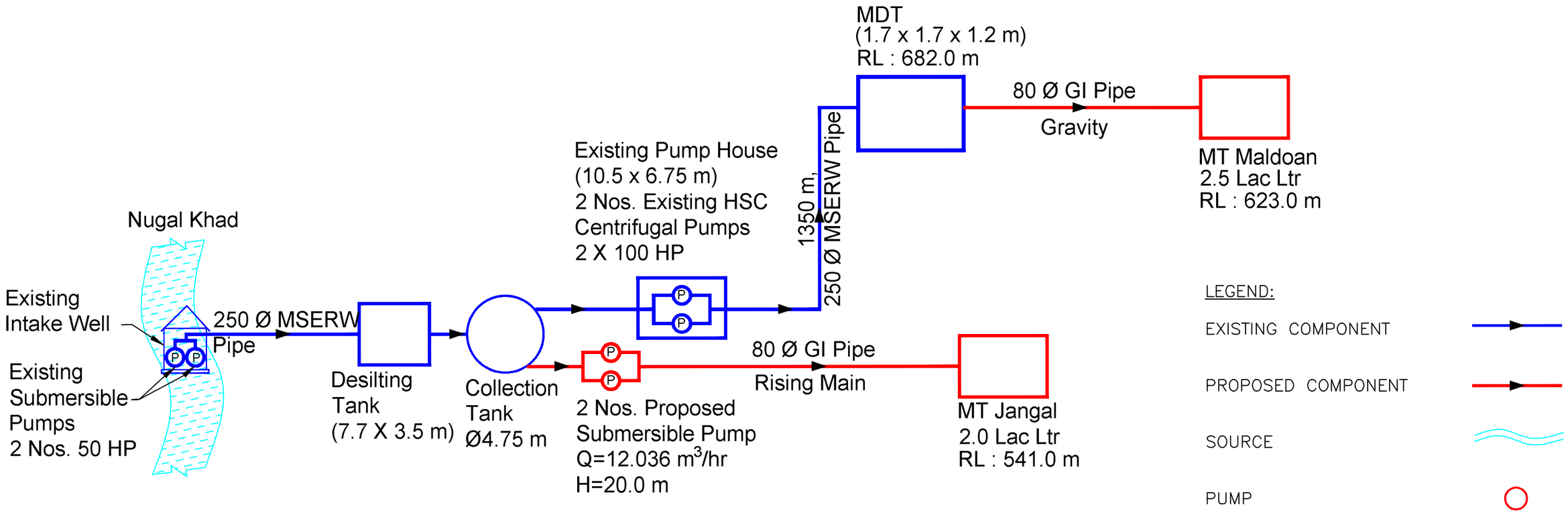
TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A–CV–3082–FD–38158	ISSUE P0
DC & DISC: DEL–CV		

SIZE–A3

FILE NAME: F–093–Rev–R1.DWG

TCE FORM NO. 093 R1



NOTE:

1. ALL PIPE DIAMETERS ARE IN MILLIMETER.

FLOW DIAGRAM – EXISTING LIS ALAMPUR EXTENSION– JANGAL & MALDOAN CLUSTER (19.74 Ha)

	SIGN.												
	INITIALS												
	REVISIONS												
P0	SIGN.												
	INITIALS	KKS	SKAC	DVB							MK	DK	10-07-2022
	REVISIONS												
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd-mm-yyyy)
					CLEARED								

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SIGN. OF CLIENT:–

JE	AE	EE	SE

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FILE NAME: 12503A–CV–38159–Rev–P0

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

FLOW DIAGRAM FOR EXISTING LIS ALAMPUR EXTENSION
MALDOAN & JANGAL CLUSTER
LAMBAGAON BLOCK, KANGRA DISTRICT

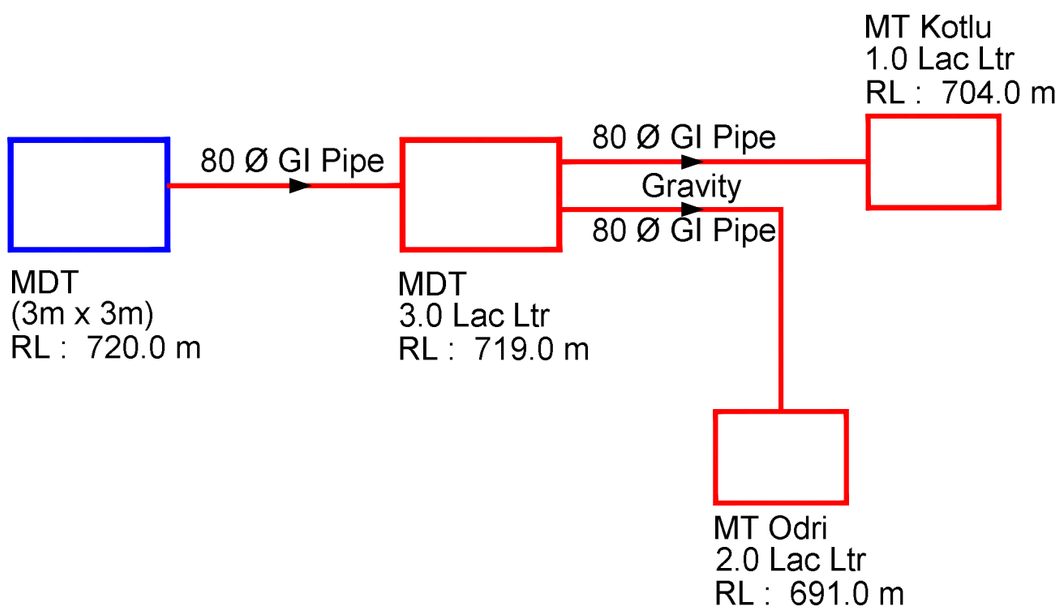
TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A–CV–3082–FD–38159	ISSUE P0
DC & DISC: DEL–CV		

SIZE–A3

FILE NAME: F–093–Rev–R1.DWG

TCE FORM NO. 093 R1



LEGEND:

EXISTING COMPONENT

PROPOSED COMPONENT

NOTE:

1. ALL PIPE DIAMETERS ARE IN MILLIMETER.

FLOW DIAGRAM – ODRI & KOTLU (13.28 Ha)

	SIGN.												
	INITIALS												
	REVISIONS												
P0	SIGN.												
	INITIALS	KKS	SKAC	DVB							MK	DK	10-07-2022
	REVISIONS												
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd-mm-yyyy)
					CLEARED								

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SIGN. OF CLIENT:–

JE	AE	EE	SE

PURPOSE : FOR TENDER ONLY

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FILE NAME: 12503A–CV–38160–Rev–P0

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

FLOW DIAGRAM FOR EXISTING LIS BANDHUI EXTENSION
ODRI & KOTLU CLUSTER
LAMBAGAON BLOCK, KANGRA DISTRICT

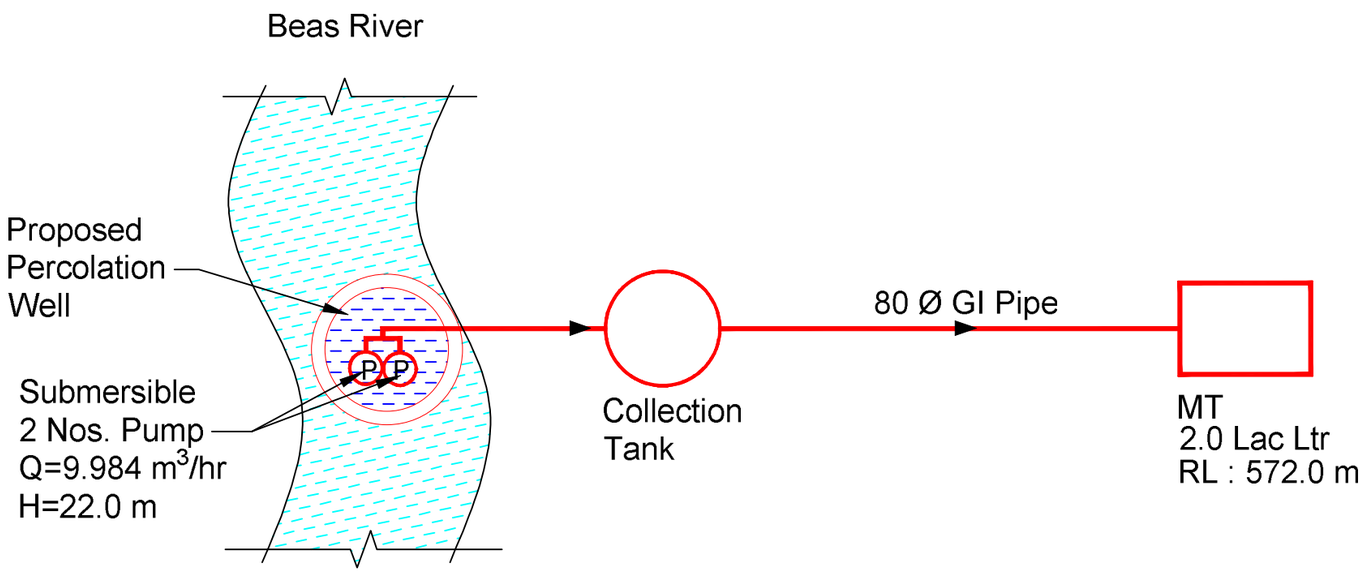
TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A–CV–3082–FD–38160	ISSUE P0
DC & DISC: DEL–CV		

SIZE–A3

FILE NAME: F–093–Rev–R1.DWG

TCE FORM NO. 093 R1



LEGEND:

PROPOSED COMPONENT

SOURCE

PERCOLATION WELL

PUMP

NOTE:

1. ALL PIPE DIAMETERS ARE IN MILLIMETER.

FLOW DIAGRAM – PROPOSED LIS KATHLA (NEW SCHEME – 7.59 Ha)

	SIGN.													
	INITIALS													
	REVISIONS													
P0	SIGN.													
	INITIALS	KKS	SKAC	DVB							MK	DK	10-07-2022	
	REVISIONS													
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd-mm-yyyy)	
					CLEARED									

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SIGN. OF CLIENT:–

JE	AE	EE	SE

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FILE NAME: 12503A–CV–38161–Rev–P0

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

FLOW DIAGRAM FOR LIS KATHLA

LAMBAGAON BLOCK, KANGRA DISTRICT

TATA CONSULTING ENGINEERS LIMITED

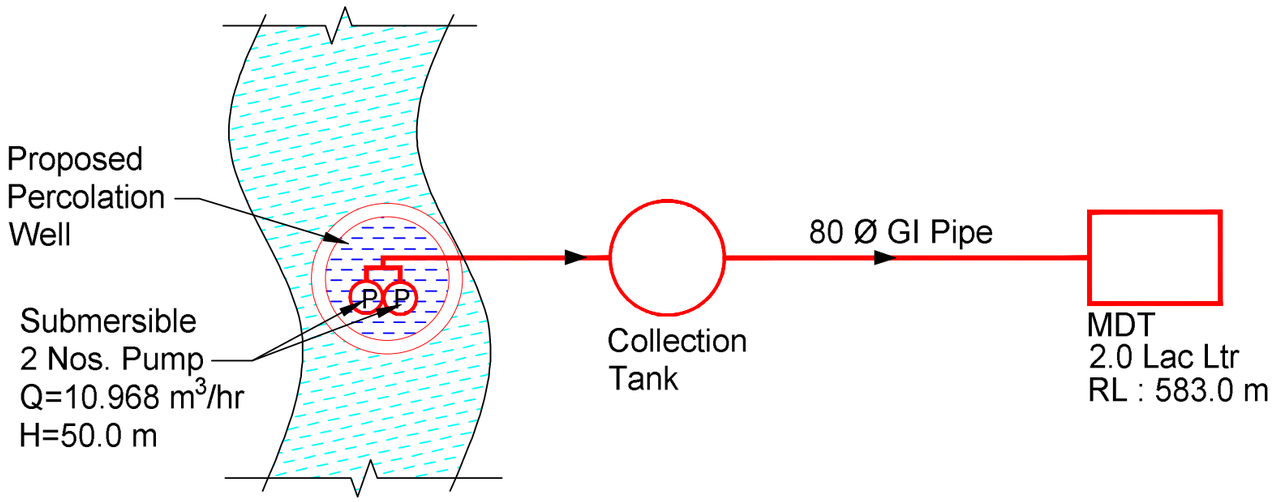
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A–CV–3082–FD–38161	ISSUE P0
DC & DISC: DEL–CV		

SIZE–A3

FILE NAME: F–093–Rev–R1.DWG

TCE FORM NO. 093 R1



LEGEND:

PROPOSED COMPONENT

SOURCE

PERCOLATION WELL

PUMP

NOTE:

1. ALL PIPE DIAMETERS ARE IN MILLIMETER.

FLOW DIAGRAM – PROPOSED LIS THANPAL (NEW SCHEME – 8.34 Ha)

	SIGN.												
	INITIALS												
	REVISIONS												
P0	SIGN.												
	INITIALS	KKS	SKAC	DVB							MK	DK	10-07-2022
	REVISIONS												
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd-mm-yyyy)
					CLEARED								

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SIGN. OF CLIENT:–

JE	AE	EE	SE

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FILE NAME: 12503A–CV–38162–Rev–P0

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

FLOW DIAGRAM FOR LIS THANPAL/CHAMBI
LAMBAGAON BLOCK, KANGRA DISTRICT

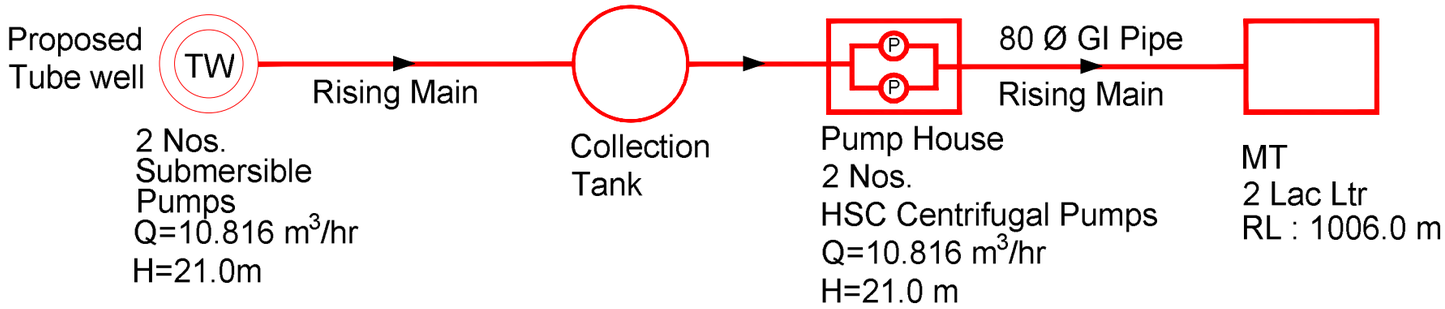
TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A–CV–3082–FD–38162	ISSUE P0
DC & DISC: DEL–CV		

SIZE–A3

FILE NAME: F–093–Rev–R1.DWG

TCE FORM NO. 093 R1



LEGEND:

PROPOSED COMPONENT

PUMP (P)

TUBEWELL (TW)

NOTE:

1. ALL PIPE DIAMETERS ARE IN MILLIMETER.

FLOW DIAGRAM – PROPOSED LIS TREHAL (NEW SCHEME – 8.22 Ha)

	SIGN.												
	INITIALS												
	REVISIONS												
P0	SIGN.												
	INITIALS	KKS	SKAC	DVB							MK	DK	10-07-2022
	REVISIONS												
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd-mm-yyyy)
					CLEARED								

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SIGN. OF CLIENT:–

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FILE NAME: 12503A–CV–38163–Rev–P0

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

FLOW DIAGRAM FOR LIS TREHAL
PANCHRUKHI BLOCK, KANGRA DISTRICT

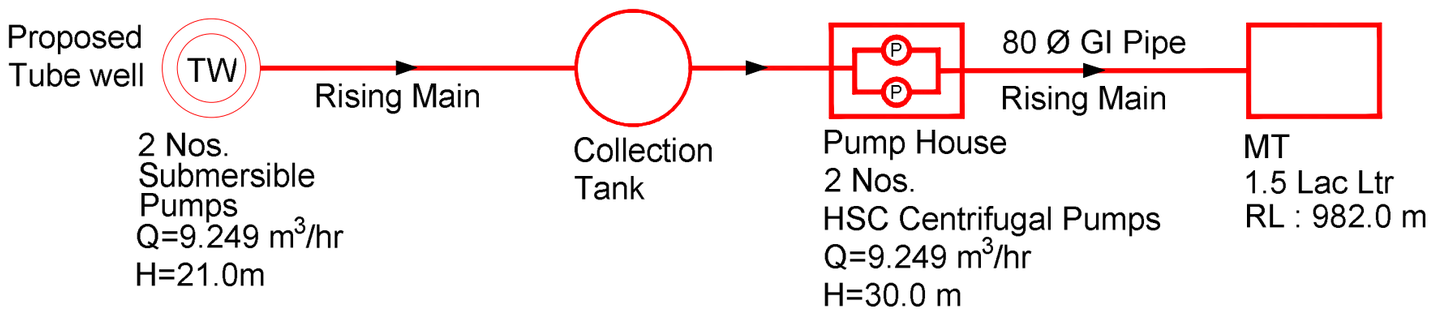
TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A–CV–3082–FD–38163	ISSUE P0
DC & DISC: DEL–CV		

SIZE–A3

FILE NAME: F–093–Rev–R1.DWG

TCE FORM NO. 093 R1



LEGEND:

PROPOSED COMPONENT

PUMP (P)

TUBEWELL (TW)

NOTE:

1. ALL PIPE DIAMETERS ARE IN MILLIMETER.

FLOW DIAGRAM – PROPOSED LIS AGOZAR (NEW SCHEME – 7.03 Ha)

	SIGN.													
	INITIALS													
	REVISIONS													
P0	SIGN.													
	INITIALS	KKS	SKAC	DVB							MK	DK		10-07-2022
	REVISIONS													
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd-mm-yyyy)	
					CLEARED									

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SIGN. OF CLIENT:–

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FILE NAME: 12503A–CV–38164–Rev–P0

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

FLOW DIAGRAM FOR LIS AGOZAR
PANCHRUKHI BLOCK, KANGRA DISTRICT

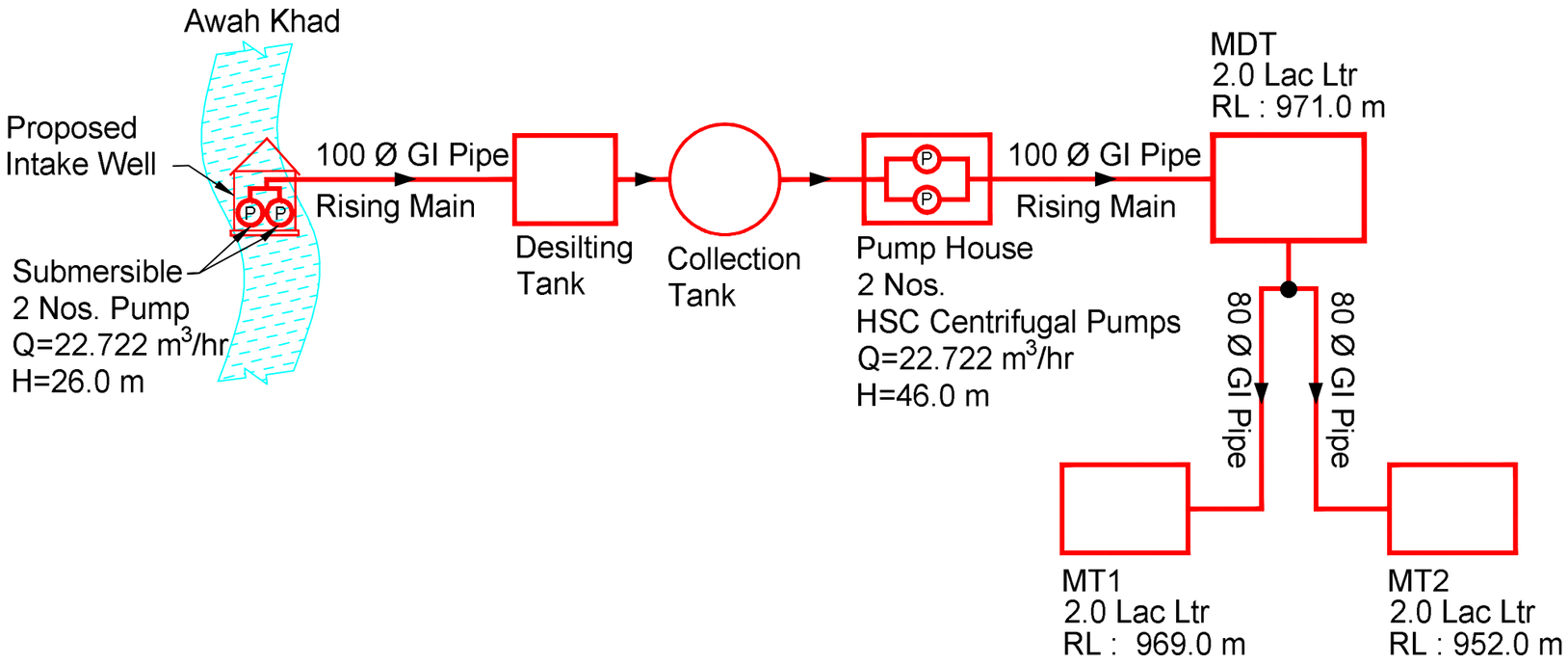
TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A–CV–3082–FD–38164	ISSUE P0
DC & DISC: DEL–CV		

SIZE–A3

FILE NAME: F–093–Rev–R1.DWG

TCE FORM NO. 093 R1



LEGEND:

PROPOSED COMPONENT

SOURCE

PUMP

NOTE:

1. ALL PIPE DIAMETERS ARE IN MILLIMETER.

FLOW DIAGRAM – PROPOSED LIS RAJHOT 1 (NEW SCHEME – 17.26 Ha)

	SIGN.													
	INITIALS													
	REVISIONS													
P0	SIGN.													
	INITIALS	KKS	SKAC	DVB							MK	DK		10-07-2022
	REVISIONS													
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd-mm-yyyy)	
					CLEARED									

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SIGN. OF CLIENT:–

JE	AE	EE	SE

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FILE NAME: 12503A–CV–38165–Rev–P0

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

FLOW DIAGRAM FOR LIS RAJHOT–1

PANCHRUKHI BLOCK, KANGRA DISTRICT

TATA CONSULTING ENGINEERS LIMITED

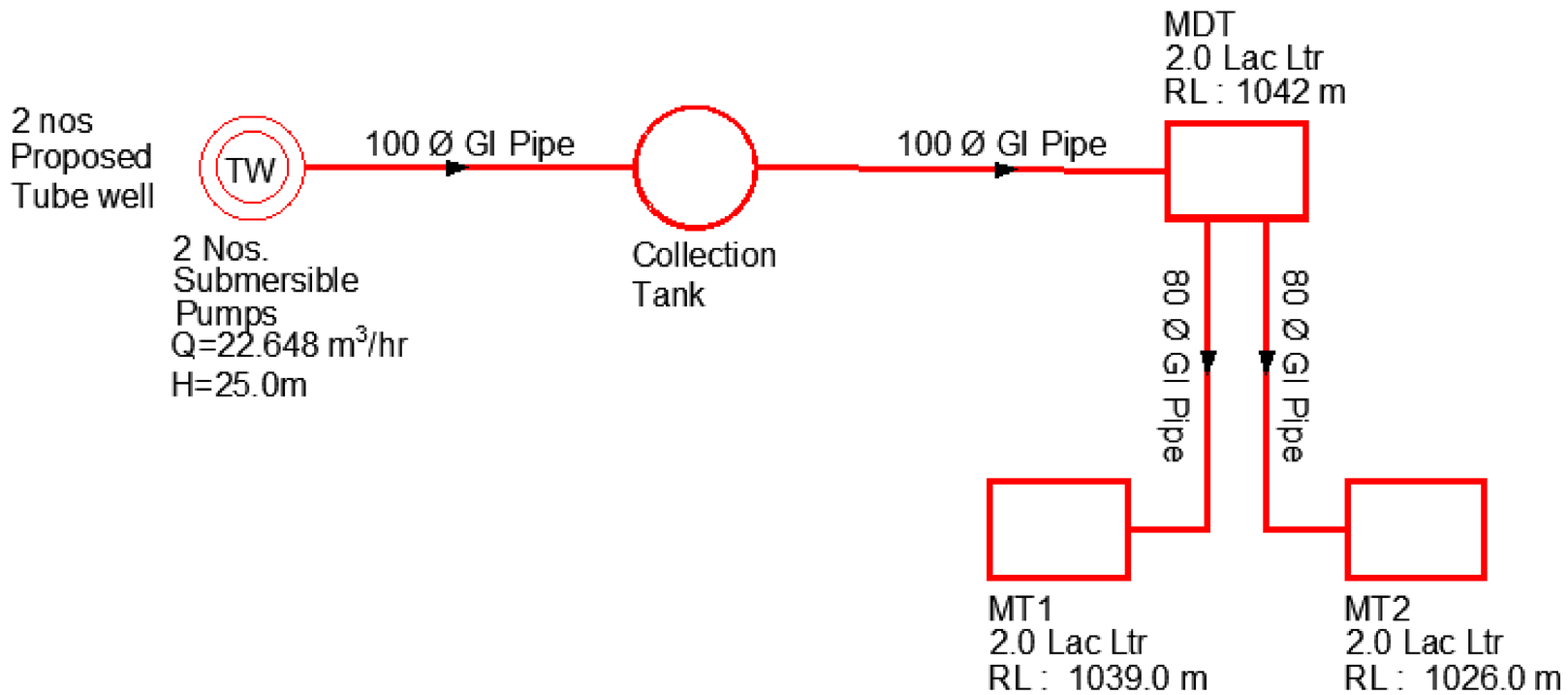
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A–CV–3082–FD–38165	ISSUE P0
DC & DISC: DEL–CV		

SIZE–A3

FILE NAME: F–093–Rev–R1.DWG

TCE FORM NO. 093 R1



LEGEND:

PROPOSED COMPONENT

PUMP (P)

TUBEWELL (TW)

NOTE:

1. ALL PIPE DIAMETERS ARE IN MILLIMETER.

FLOW DIAGRAM – PROPOSED LIS LADOH 1 (NEW SCHEME – 17.21 Ha)

	SIGN.												
	INITIALS												
	REVISIONS												
P0	SIGN.												
	INITIALS	KKS	SKAC	DVB							MK	DK	10-07-2022
	REVISIONS												
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd-mm-yyyy)
					CLEARED								

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SIGN. OF CLIENT:–

JE	AE	EE	SE

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FILE NAME: 12503A–CV–38166–Rev–P0

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

FLOW DIAGRAM FOR LIS LADOH–1

PANCHRUKHI BLOCK, KANGRA DISTRICT

TATA CONSULTING ENGINEERS LIMITED

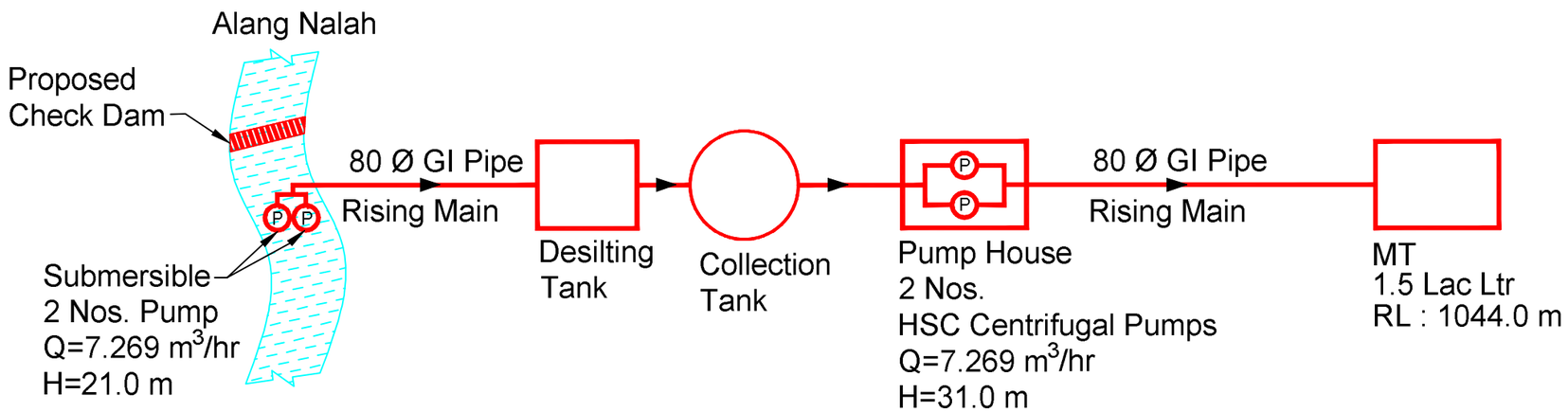
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A–CV–3082–FD–38166	ISSUE P0
DC & DISC: DEL–CV		

SIZE–A3

FILE NAME: F–093–Rev–R1.DWG

TCE FORM NO. 093 R1



LEGEND:

PROPOSED COMPONENT

SOURCE

PUMP

NOTE:

1. ALL PIPE DIAMETERS ARE IN MILLIMETER.

FLOW DIAGRAM – PROPOSED LIS LADOH 2 (NEW SCHEME – 5.52 Ha)

	SIGN.													
	INITIALS													
	REVISIONS													
P0	SIGN.													
	INITIALS	KKS	SKAC	DVB							MK	DK		10-07-2022
	REVISIONS													
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd-mm-yyyy)	
					CLEARED									

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SIGN. OF CLIENT:–

JE	AE	EE	SE

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FILE NAME: 12503A–CV–38167–Rev–P0

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

FLOW DIAGRAM FOR LIS LADOH–2

PANCHRUKHI BLOCK, KANGRA DISTRICT

TATA CONSULTING ENGINEERS LIMITED

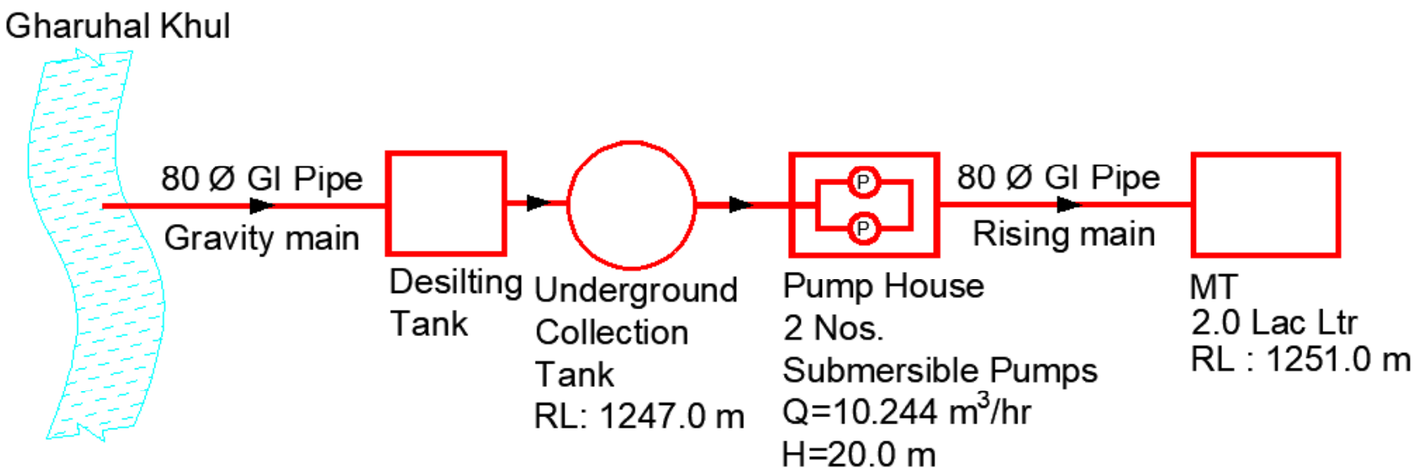
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A–CV–3082–FD–38167	ISSUE P0
DC & DISC: DEL–CV		

SIZE–A3

FILE NAME: F–093–Rev–R1.DWG

TCE FORM NO. 093 R1



LEGEND:

PROPOSED COMPONENT

SOURCE

PUMP (P)

NOTE:

1. ALL PIPE DIAMETERS ARE IN MILLIMETER.

FLOW DIAGRAM – PROPOSED LIS BANURI (NEW SCHEME – 7.73 Ha)

	SIGN.												
	INITIALS												
	REVISIONS												
P0	SIGN.												
	INITIALS	KKS	SKAC	DVB							MK	DK	10-07-2022
	REVISIONS												
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd-mm-yyyy)
					CLEARED								

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SIGN. OF CLIENT:–

JE	AE	EE	SE

PURPOSE : FOR TENDER ONLY

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FILE NAME: 12503A–CV–38168–Rev–P0

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

FLOW DIAGRAM FOR LIS BANURI

PANCHRUKHI BLOCK, KANGRA DISTRICT

TATA CONSULTING ENGINEERS LIMITED

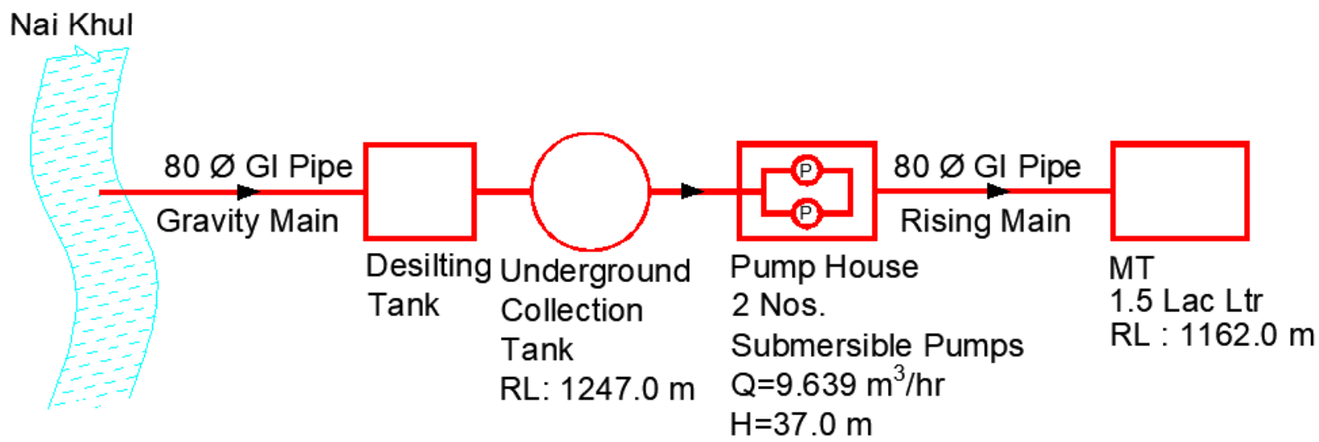
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A–CV–3082–FD–38168	ISSUE P0
DC & DISC: DEL–CV		

SIZE–A3

FILE NAME: F–093–Rev–R1.DWG

TCE FORM NO. 093 R1



LEGEND:

PROPOSED COMPONENT

SOURCE

PUMP (P)

NOTE:

1. ALL PIPE DIAMETERS ARE IN MILLIMETER.

FLOW DIAGRAM – PROPOSED LIS SALIANA (NEW SCHEME – 7.33 Ha)

	SIGN.												
	INITIALS												
	REVISIONS												
P0	SIGN.												10-07-2022
	INITIALS	KKS	SKAC	DVB							MK	DK	
	REVISIONS												
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd-mm-yyyy)
					CLEARED								

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SIGN. OF CLIENT:–

JE	AE	EE	SE

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FILE NAME: 12503A–CV–38170–Rev–P0

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

FLOW DIAGRAM FOR LIS SALIANA
PANCHRUKHI BLOCK, KANGRA DISTRICT

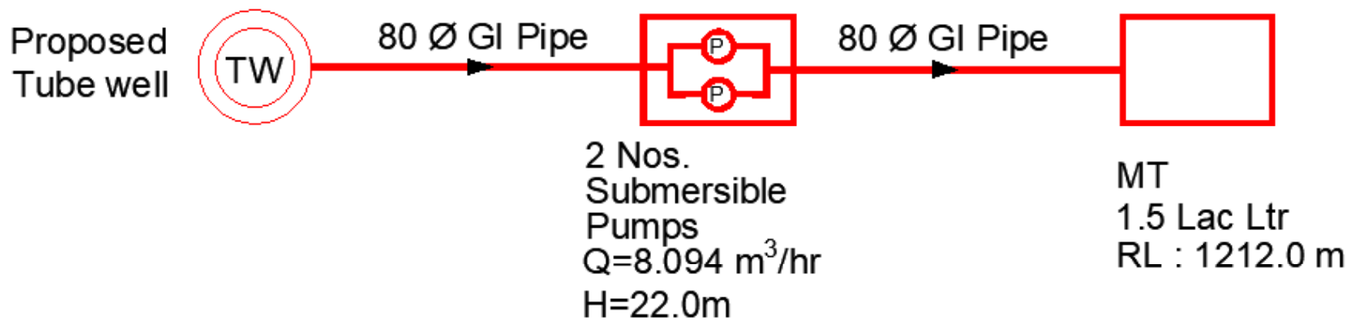
TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A–CV–3082–FD–38170	ISSUE P0
DC & DISC: DEL–CV		

SIZE–A3

FILE NAME: F–093–Rev–R1.DWG

TCE FORM NO. 093 R1



LEGEND:

PROPOSED COMPONENT

PUMP (P)

TUBEWELL (TW)

NOTE:

1. ALL PIPE DIAMETERS ARE IN MILLIMETER.

FLOW DIAGRAM – PROPOSED LIS MOLICHAK (NEW SCHEME – 6.15 Ha)

	SIGN.													
	INITIALS													
	REVISIONS													
P0	SIGN.													
	INITIALS	KKS	SKAC	DVB							MK	DK		10-07-2022
	REVISIONS													
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd-mm-yyyy)	
					CLEARED									

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SIGN. OF CLIENT:–

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FILE NAME: 12503A–CV–38171–Rev–P0

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

FLOW DIAGRAM FOR LIS MOLICHAK

PANCHRUKHI BLOCK, KANGRA DISTRICT

TATA CONSULTING ENGINEERS LIMITED

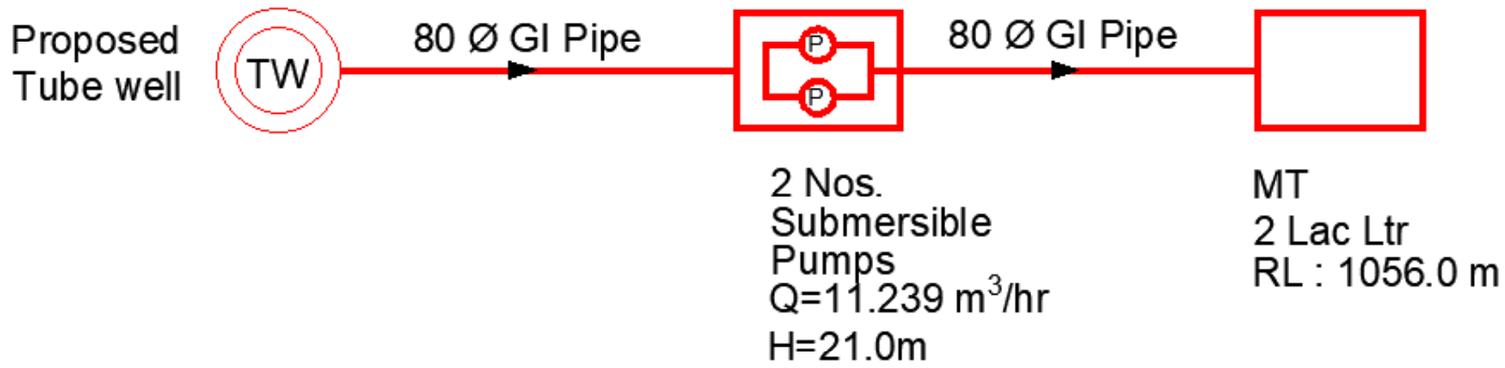
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A–CV–3082–FD–38171	ISSUE P0
DC & DISC: DEL–CV		

SIZE–A3

FILE NAME: F–093–Rev–R1.DWG

TCE FORM NO. 093 R1



LEGEND:

PROPOSED COMPONENT

PUMP (P)

TUBEWELL (TW)

NOTE:

1. ALL PIPE DIAMETERS ARE IN MILLIMETER.

FLOW DIAGRAM – PROPOSED LIS JANDPUR (NEW SCHEME – 8.54 Ha)

	SIGN.													
	INITIALS													
	REVISIONS													
P0	SIGN.													
	INITIALS	KKS	SKAC	DVB							MK	DK		10-07-2022
	REVISIONS													
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd-mm-yyyy)	
					CLEARED									

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FILE NAME: 12503A–CV–38172–Rev–P0

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

FLOW DIAGRAM FOR LIS JANDPUR

PANCHRUKHI BLOCK, KANGRA DISTRICT

TATA CONSULTING ENGINEERS LIMITED

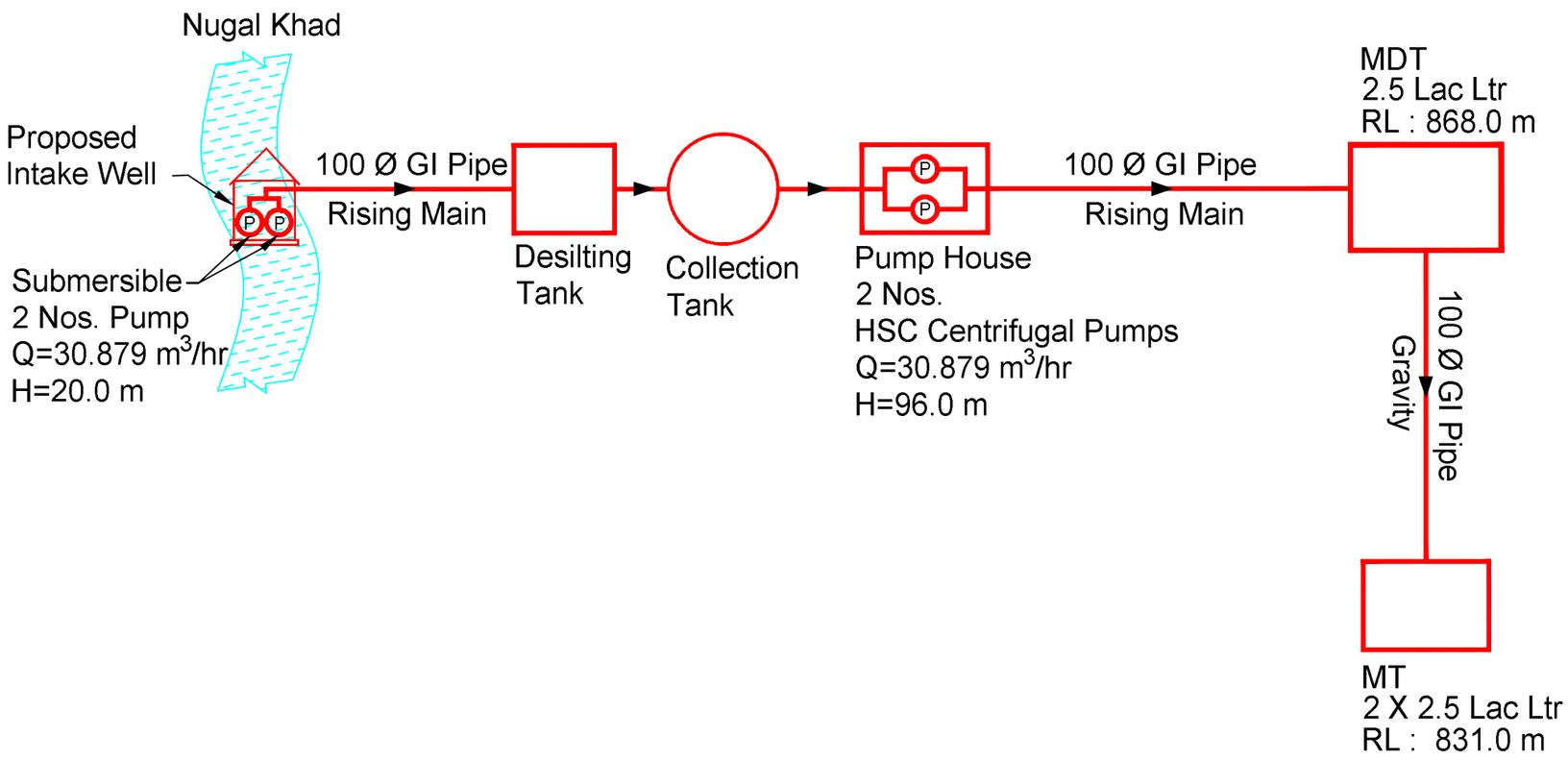
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A–CV–3082–FD–38172	ISSUE P0
DC & DISC: DEL–CV		

SIZE–A3

FILE NAME: F–093–Rev–R1.DWG

TCE FORM NO. 093 R1



LEGEND:

PROPOSED COMPONENT

SOURCE

PUMP

NOTE:

1. ALL PIPE DIAMETERS ARE IN MILLIMETER.

FLOW DIAGRAM – PROPOSED LIS DHEERA 1 & 2 (NEW SCHEME – 23.47 Ha)

	SIGN.													
	INITIALS													
	REVISIONS													
P0	SIGN.													10-07-2022
	INITIALS	KKS	SKAC	DVB							MK	DK		
	REVISIONS													
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd-mm-yyyy)	
					CLEARED									

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SIGN. OF CLIENT:–

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FILE NAME: 12503A–CV–38173–Rev–P0

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

FLOW DIAGRAM FOR LIS DHEERA–1 & 2
SULLAH BLOCK, KANGRA DISTRICT

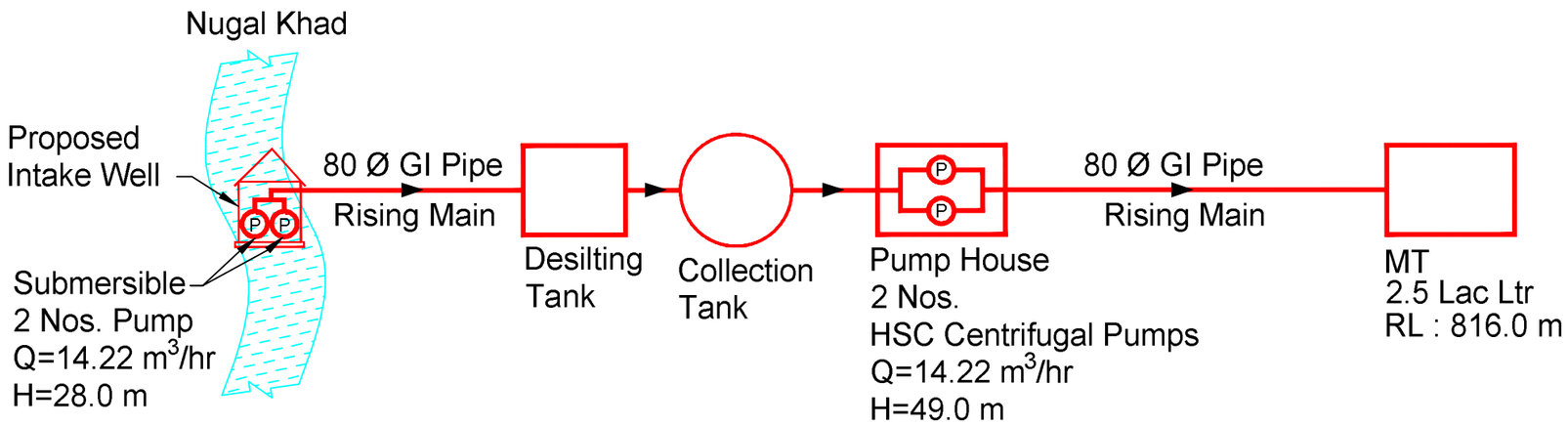
TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A–CV–3082–FD–38173	ISSUE P0
DC & DISC: DEL–CV		

SIZE–A3

FILE NAME: F–093–Rev–R1.DWG

TCE FORM NO. 093 R1



LEGEND:

PROPOSED COMPONENT

SOURCE

PUMP

NOTE:

1. ALL PIPE DIAMETERS ARE IN MILLIMETER.

FLOW DIAGRAM – PROPOSED LIS DHEERA 3 (NEW SCHEME – 10.81 Ha)

	SIGN.												
	INITIALS												
	REVISIONS												
P0	SIGN.												
	INITIALS	KKS	SKAC	DVB							MK	DK	10-07-2022
	REVISIONS												
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd-mm-yyyy)
					CLEARED								

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SIGN. OF CLIENT:–

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FILE NAME: 12503A–CV–38174–Rev–P0

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

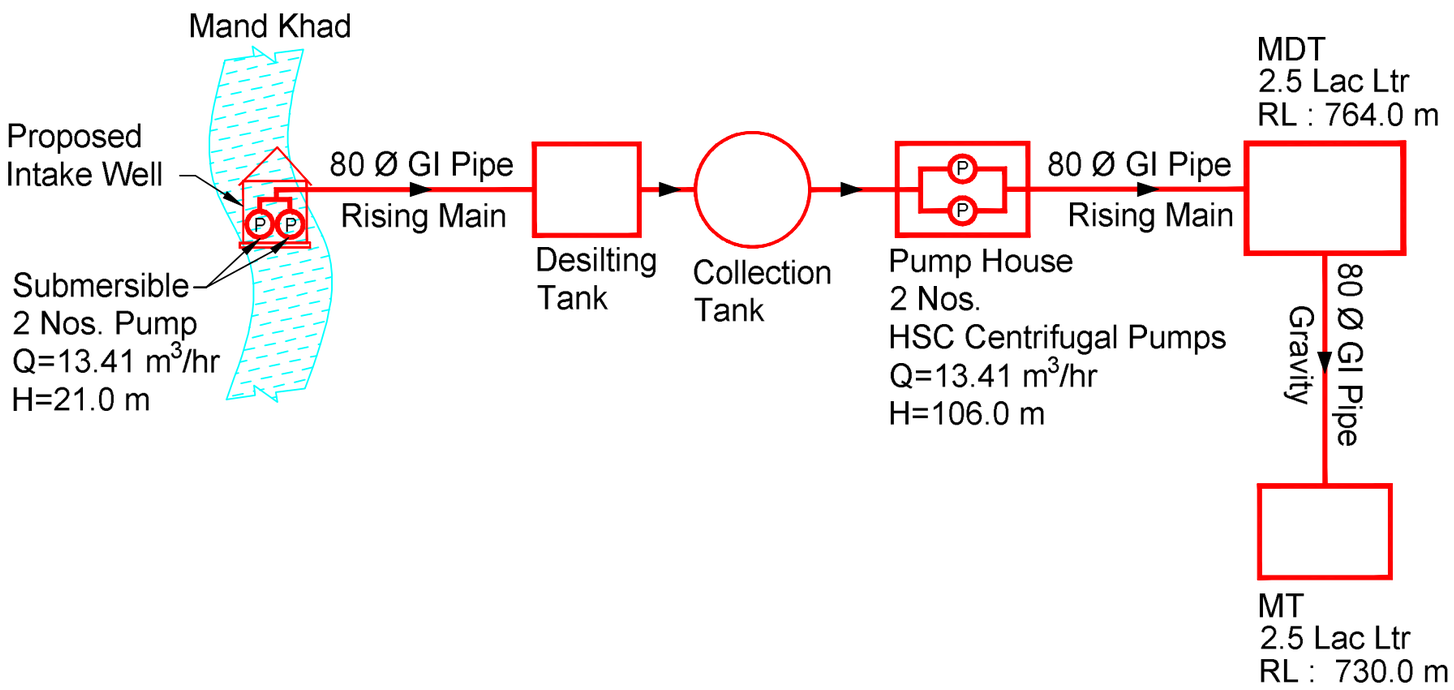
FLOW DIAGRAM FOR LIS DHEERA–3
SULLAH BLOCK, KANGRA DISTRICT

TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A–CV–3082–FD–38174	ISSUE P0	SIZE–A3
DC & DISC: DEL–CV			

FILE NAME: F–093–Rev–R1.DWG

TCE FORM NO. 093 R1



LEGEND:

PROPOSED COMPONENT

SOURCE

PUMP

NOTE:

1. ALL PIPE DIAMETERS ARE IN MILLIMETER.

FLOW DIAGRAM – PROPOSED LIS CHAINCHADI–KUTHERA (NEW SCHEME – 10.19 Ha)

	SIGN.													
	INITIALS													
	REVISIONS													
P0	SIGN.													
	INITIALS	KKS	SKAC	DVB							MK	DK		10–07–2022
	REVISIONS													
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd–mm–yyyy)	
					CLEARED									

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SIGN. OF CLIENT:–

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FILE NAME: 12503A–CV–38175–Rev–P0

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

FLOW DIAGRAM FOR LIS CHAINCHADI– KUTHERA
SULLAH BLOCK, KANGRA DISTRICT

TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A–CV–3082–FD–38175	ISSUE P0
DC & DISC: DEL–CV		

SIZE–A3

FILE NAME: F–093–Rev–R1.DWG

TCE FORM NO. 093 R1

LEGEND:

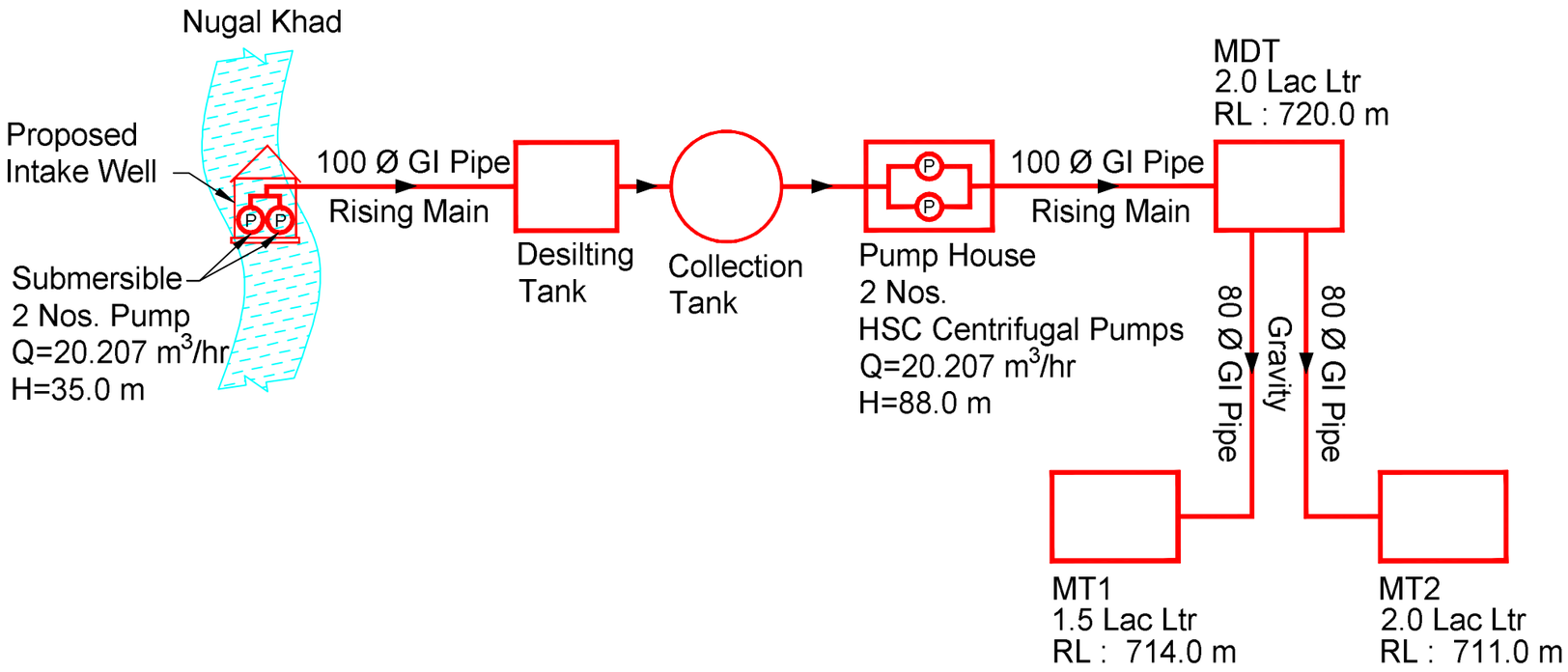
PROPOSED COMPONENT

SOURCE

PUMP

NOTE:

1. ALL PIPE DIAMETERS ARE IN MILLIMETER.



FLOW DIAGRAM – PROPOSED LIS PURBA (NEW SCHEME – 15.36 Ha)

	SIGN.												
	INITIALS												
	REVISIONS												
P0	SIGN.												10-07-2022
	INITIALS	KKS	SKAC	DVB							MK	DK	
	REVISIONS												
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd-mm-yyyy)
					CLEARED								

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SIGN. OF CLIENT:–

JE	AE	EE	SE

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FILE NAME: 12503A–CV–38176–Rev–P0

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

FLOW DIAGRAM FOR LIS PURBA

SULLAH BLOCK, KANGRA DISTRICT

TATA CONSULTING ENGINEERS LIMITED

MUMBAI

SCALE : NTS	DWG NO. TCE.12503A–CV–3082–FD–38176	ISSUE P0
DC & DISC: DEL–CV		

SIZE–A3

FILE NAME: F–093–Rev–R1.DWG

TCE FORM NO. 093 R1

LEGEND:

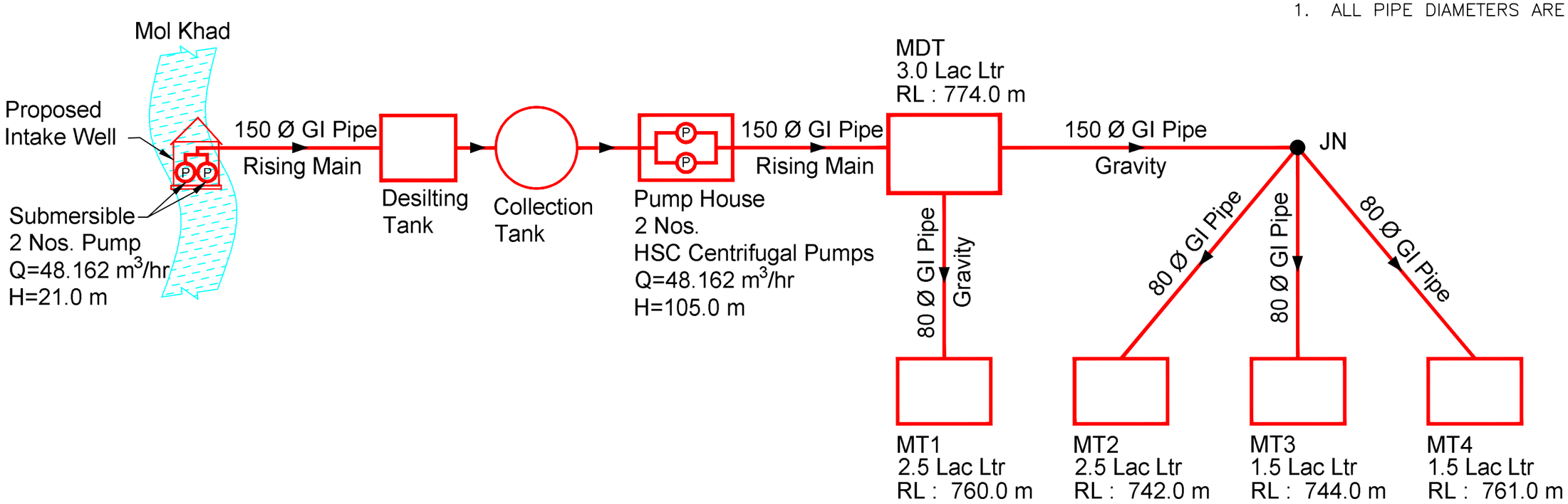
PROPOSED COMPONENT

SOURCE

PUMP

NOTE:

1. ALL PIPE DIAMETERS ARE IN MILLIMETER.



FLOW DIAGRAM – PROPOSED LIS CHANDAR (NEW SCHEME – 36.6 Ha)

	SIGN.													
	INITIALS													
	REVISIONS													
P0	SIGN.													
	INITIALS	KKS	SKAC	DVB							MK	DK		10-07-2022
	REVISIONS													
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd-mm-yyyy)	
					CLEARED									

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SIGN. OF CLIENT:–

JE	AE	EE	SE

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FILE NAME: 12503A–CV–38177–Rev–P0

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

FLOW DIAGRAM FOR LIS CHANDAR
SULLAH BLOCK, KANGRA DISTRICT

TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS

DC & DISC: DEL–CV

DWG NO. TCE.12503A–CV–3082–FD–38177

ISSUE P0

SIZE–A3

FILE NAME: F–093–Rev–R1.DWG

TCE FORM NO. 093 R1

LEGEND:

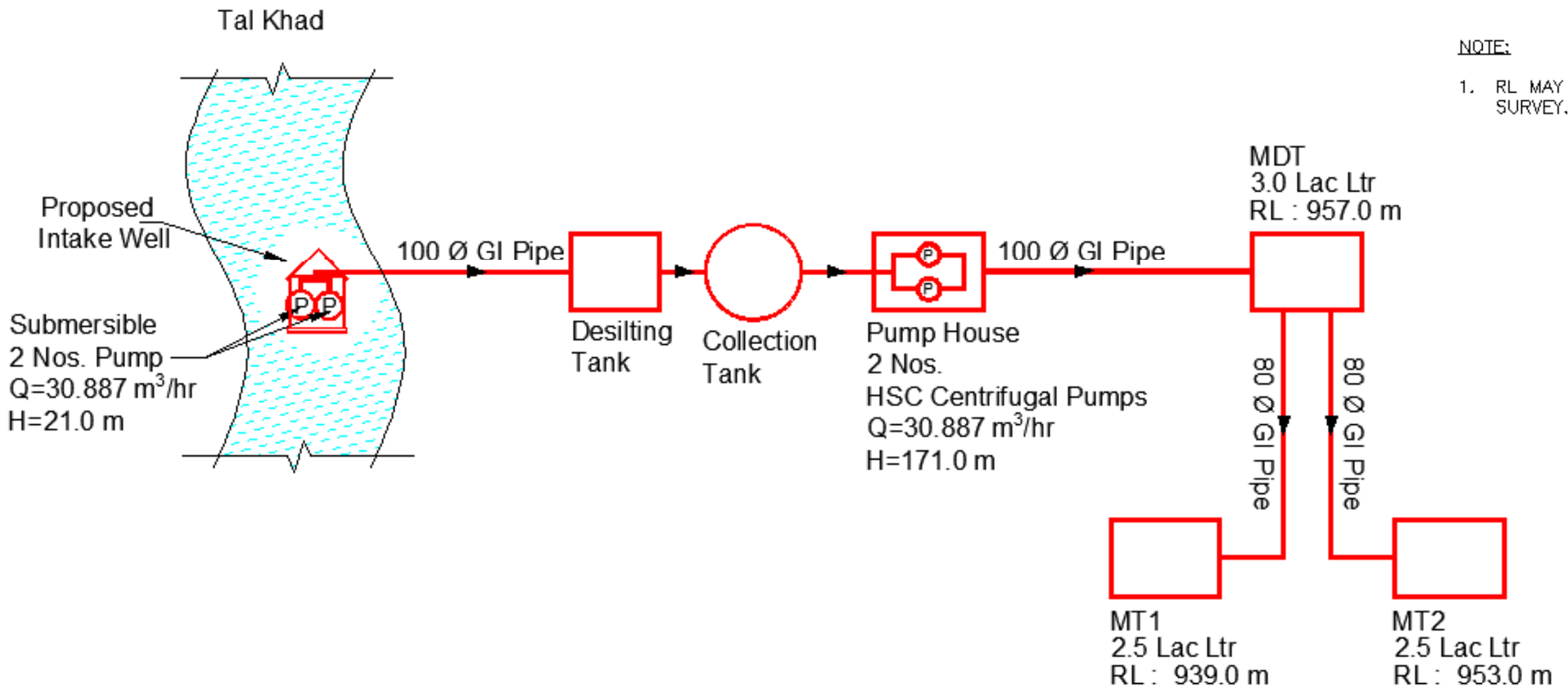
PROPOSED COMPONENT

SOURCE

PUMP

NOTE:

1. RL MAY VARY AS PER ACTUAL ROUTE SURVEY.



FLOW DIAGRAM – PROPOSED LIS GAGAL KHAS (NEW SCHEME – 23.47 Ha)

	SIGN.												
	INITIALS												
	REVISIONS												
P0	SIGN.												
	INITIALS	KKS	SKAC	DVB							MK	DK	10-07-2022
	REVISIONS												
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd-mm-yyyy)
					CLEARED								

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PURPOSE : FOR TENDER ONLY

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FILE NAME: 12503A–CV–38178–Rev–P0

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

FLOW DIAGRAM FOR LIS GAGAL KHAS

SULLAH BLOCK, KANGRA DISTRICT

TATA CONSULTING ENGINEERS LIMITED

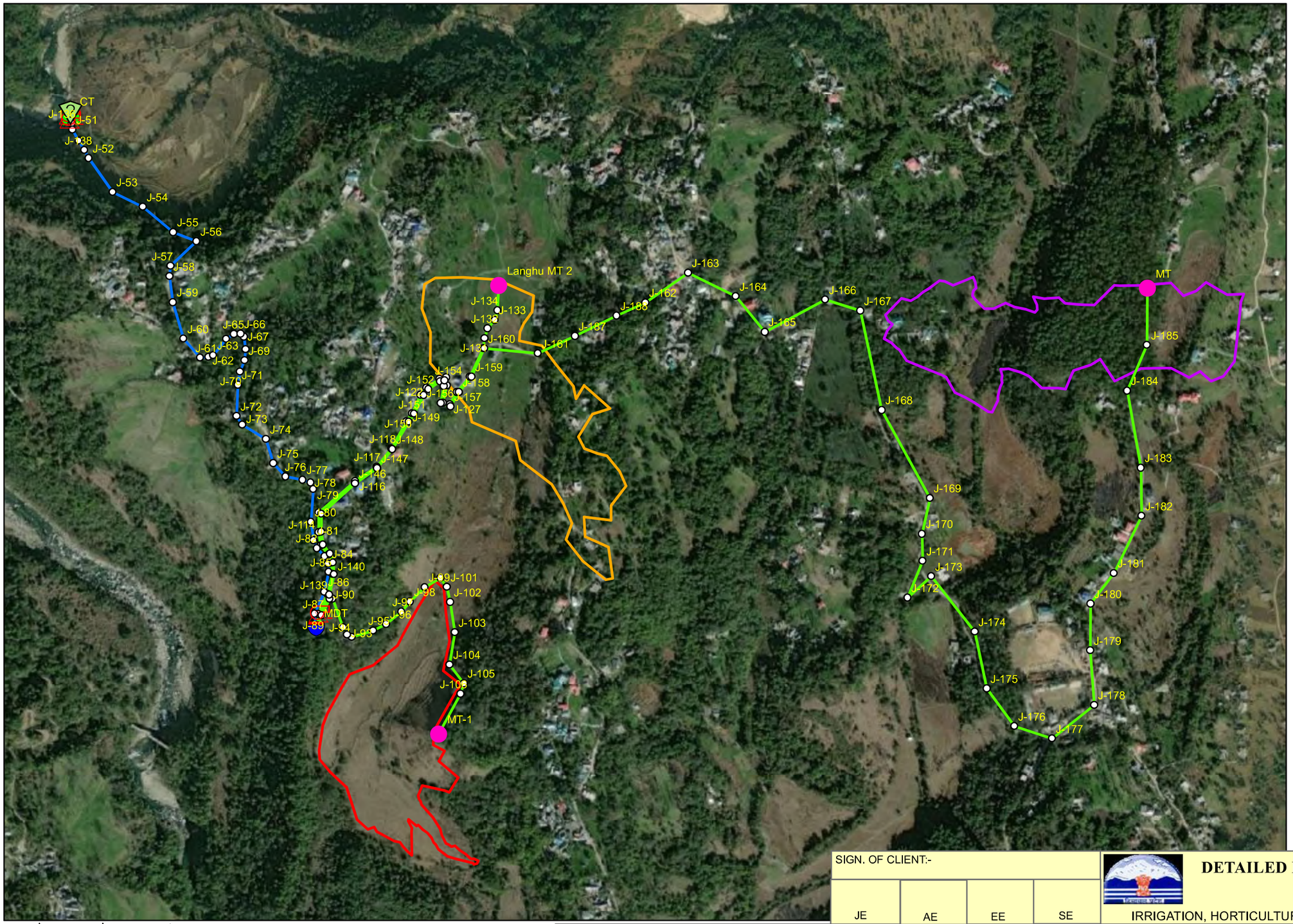
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A–CV–3082–FD–38178	ISSUE P0
DC & DISC: DEL–CV		

SIZE–A3

FILE NAME: F–093–Rev–R1.DWG

TCE FORM NO. 093 R1



N
W E
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Legend

- R-10
- Pump
- Junction
- MDT
- MT
- Tank
- Gravity Main 80mm Dia GI Pipe
- Rising Main 100mm Dia GI Pipe
- Upper_Bhet
- Langhu_1
- Langhu_2

	SIGN.									
	INITIALS									
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	INITIALS	GKJ	SKAC	DVB			MK	DK	20-07-2022	
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File Name : 12503A-CV-38201-Rev-P0

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

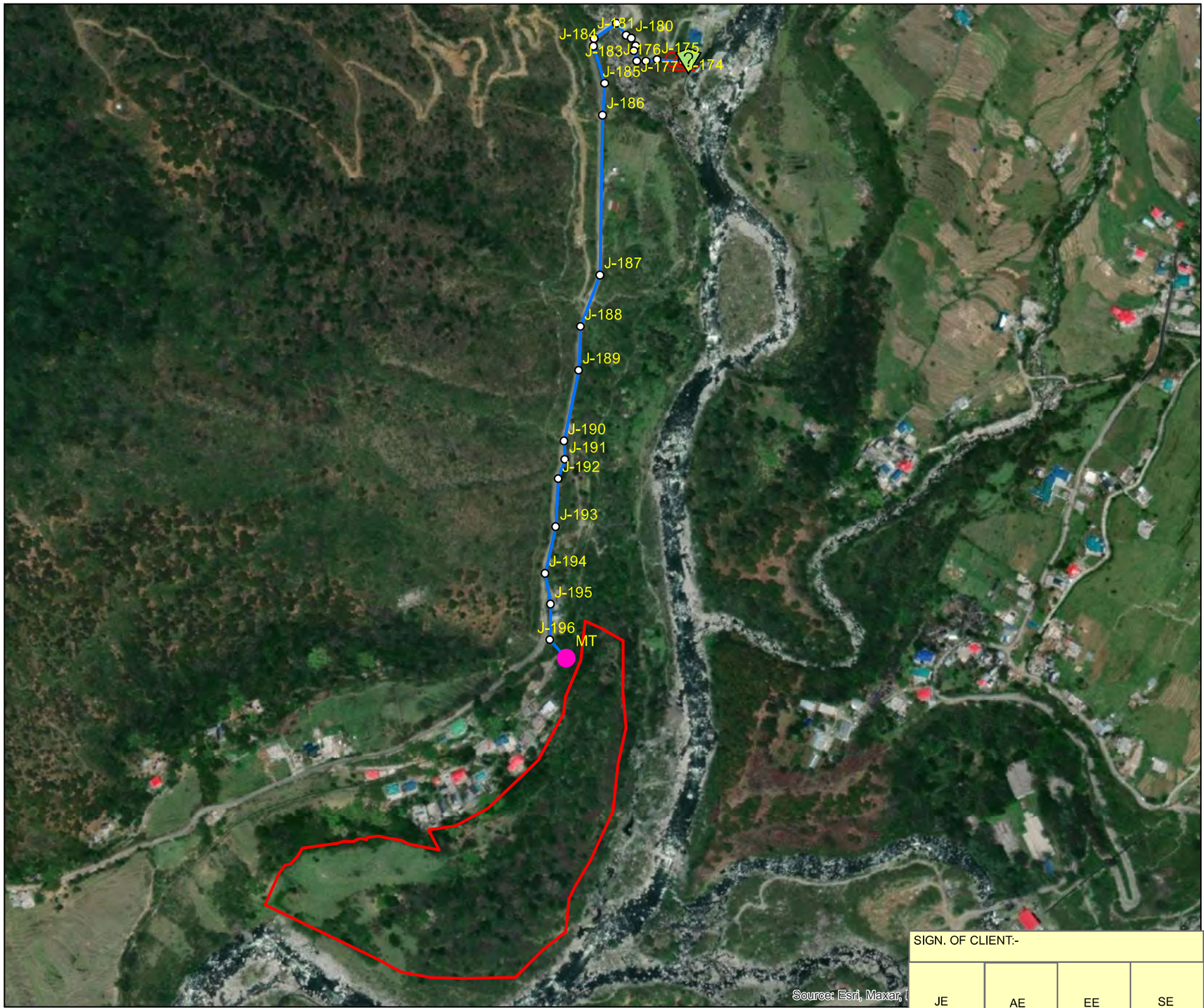
IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TITLE:-

NETWORK DRAWING OF LIS LANGHU (LANGHU-1 & 2 CLUSTER, UPPER BHET) FOR BAIJNATH BLOCK, KANGRA DISTRICT.

TATACONSULTING ENGINEERS LIMITED. MUMBAI

SCALE:- 1:8,000	DWG. No:-	ISSUE:-
DL.CEN.:- DEL-CV	TCE.12503A-CV-3082-WS-38201	P0



Legend

- Source
- Pump
- Junction
- MT
- Rising Main 80mm Dia GI Pipe
- Malghota Cluster

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File Name : 12503A-CV-38202-Rev-P0

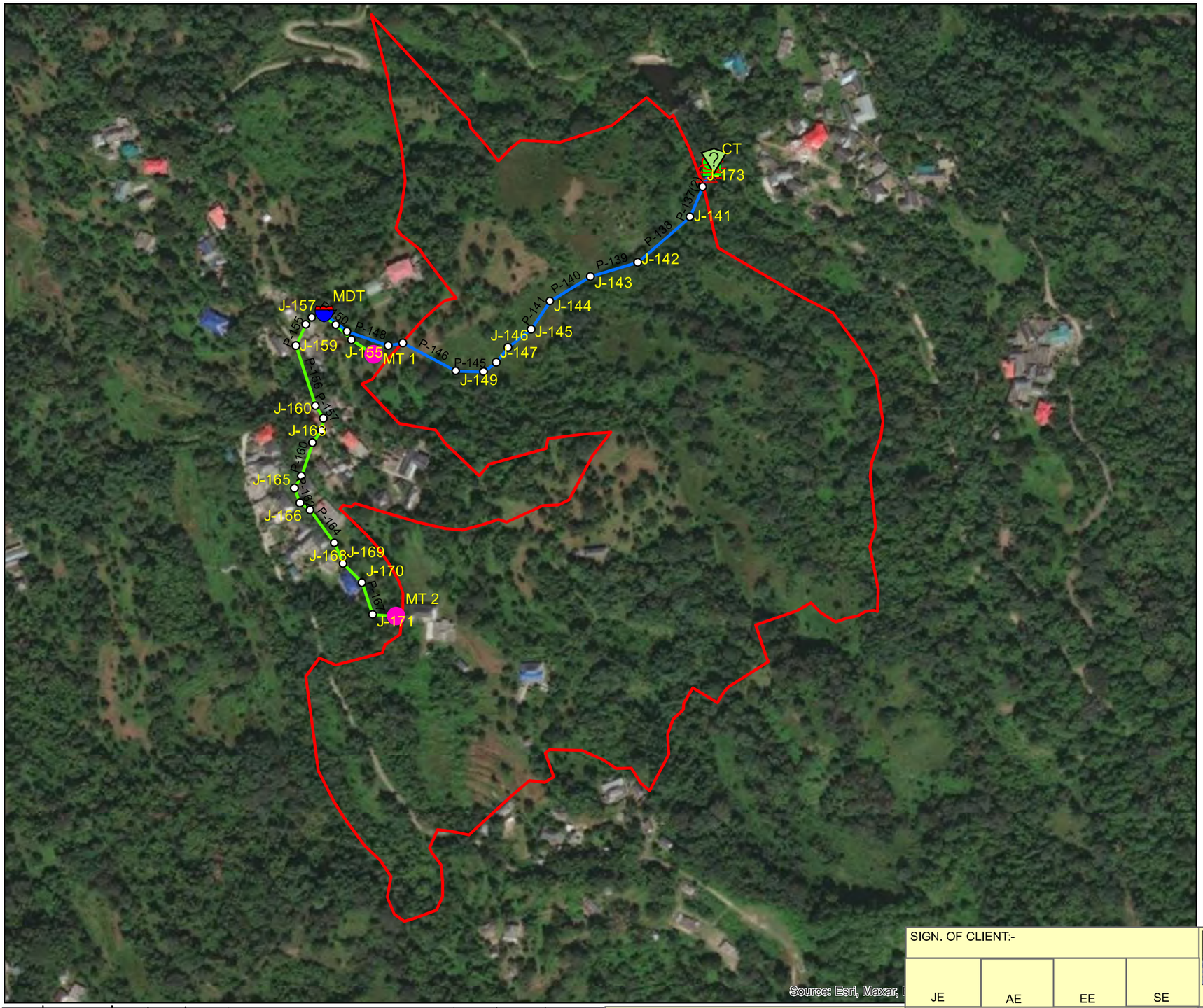
DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TITLE:- NETWORK DRAWING OF LIS MANGHOT FOR BAIJNATH BLOCK, KANGRA DISTRICT.

TATACONSULTING ENGINEERS LIMITED.
MUMBAI

SCALE:- 1:5,500	DWG. No:-	ISSUE:-
DL.CEN.:- DEL-CV	TCE.12503A-CV-3082-WS-38202	P0



N
W E
S

Legend

- Source
- Pump
- Junction
- MDT
- MT
- Tank
- Gravity Main 80mm Dia GI Pipe
- Rising Main 100mm Dia GI Pipe
- Kudail Cluster

SIGN. OF CLIENT:-

JE	AE	EE	SE

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

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File Name : 12503A-CV-38203-Rev-P0

TITLE:- NETWORK DRAWING OF LIS KUDAIL FOR BAIJNATH BLOCK, KANGRA DISTRICT.

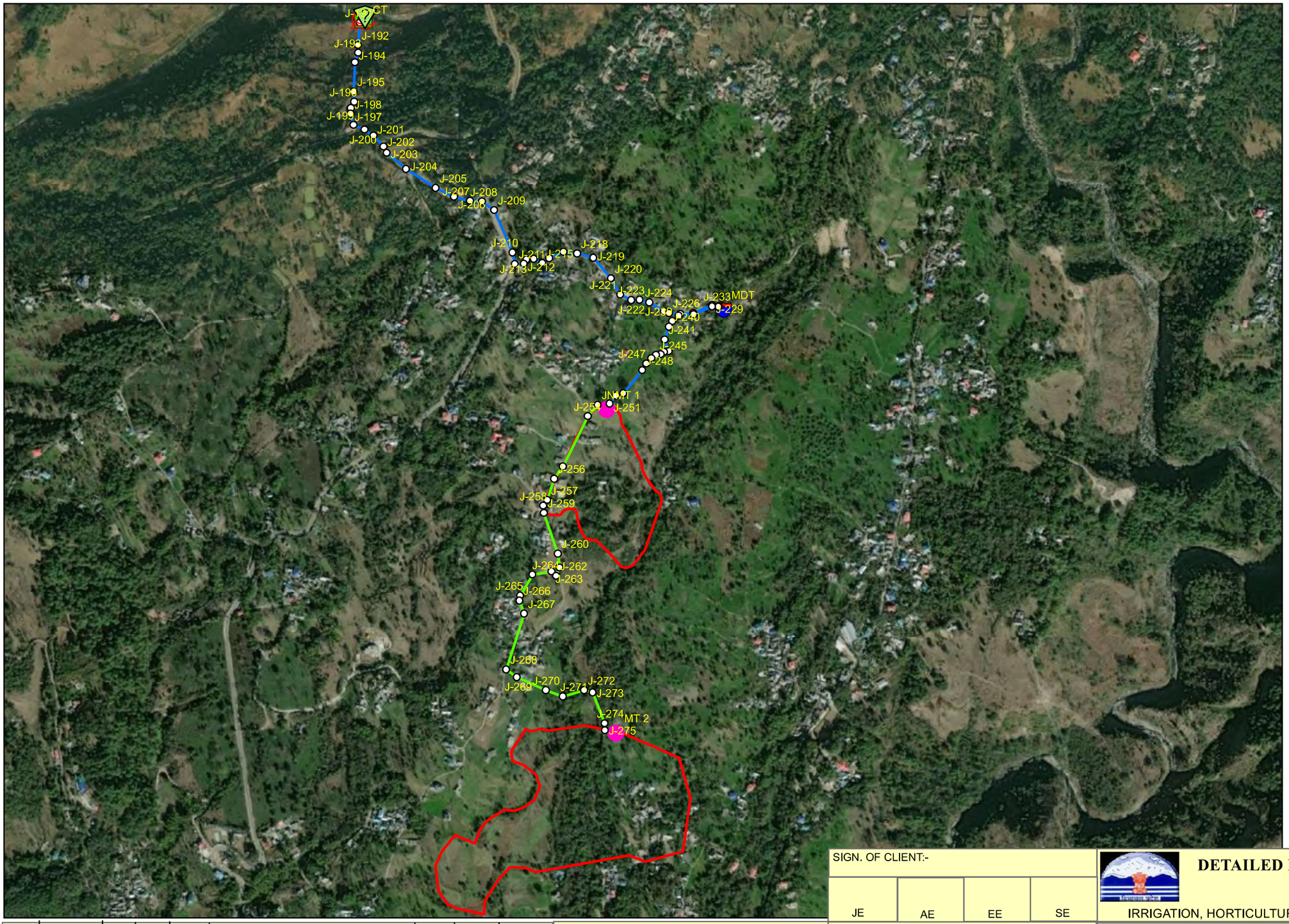
TATACONSULTING ENGINEERS LIMITED.
MUMBAI

SCALE:- 1:4,000

DL.CEN.:- DEL-CV

DWG. No:- TCE.12503A-CV-3082-WS-38203

ISSUE:- P0



N
W E
S

Legend

- Source
- Pump
- Junction
- MDT
- MT
- Tank
- Gravity Main 80mm Dia GI Pipe
- Rising Main 100mm Dia GI Pipe
- Thandol

SIGN. OF CLIENT:-

JE	AE	EE	SE

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

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File Name : 12503A-CV-38204-Rev-P0

TITLE:- NETWORK DRAWING OF LIS THANDOL FOR BHAWARNA BLOCK, KANGRA DISTRICT.

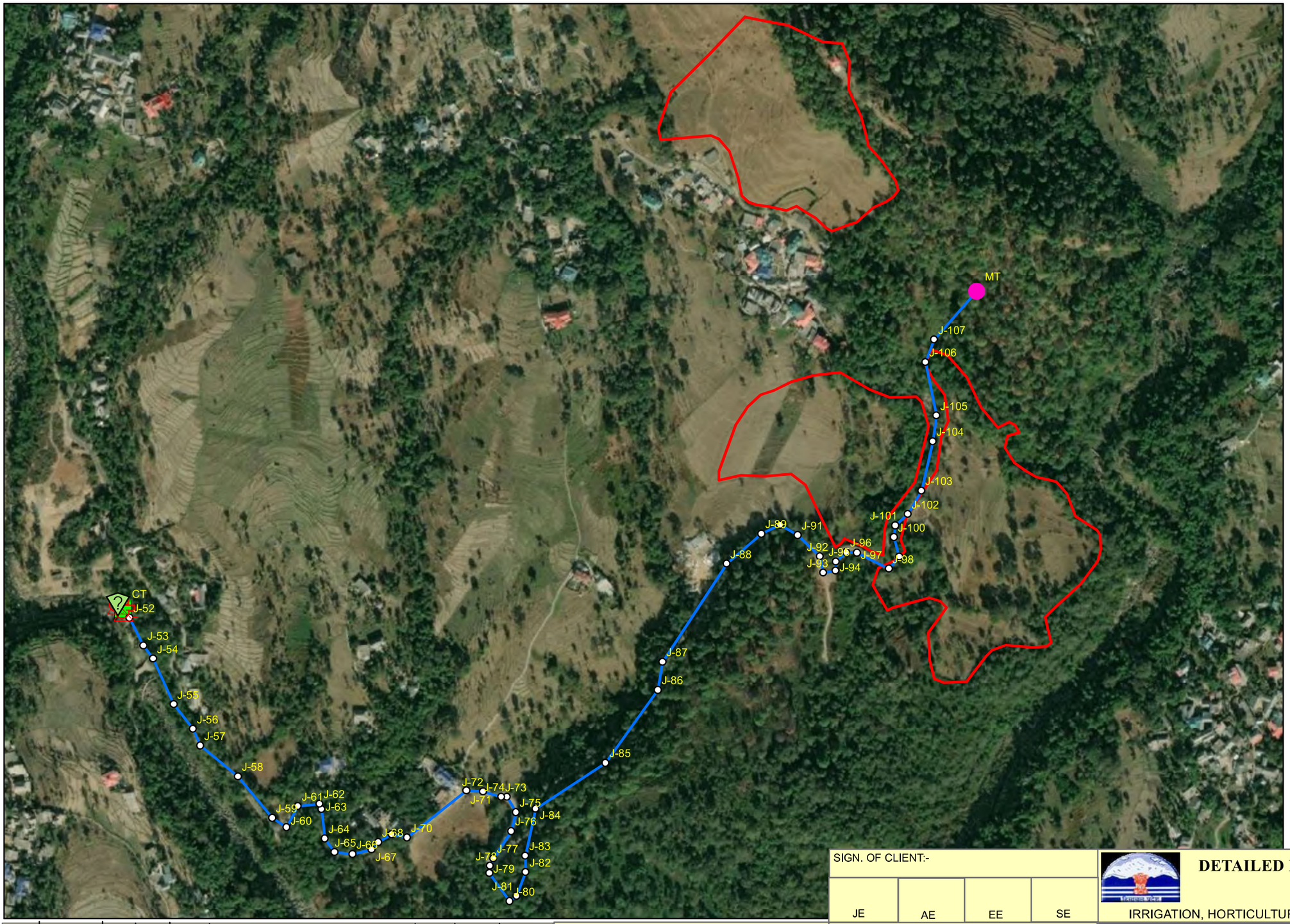
TATACONSULTING ENGINEERS LIMITED.
MUMBAI

SCALE:- 1:10,000

DL.CEN.:- DEL-CV

DWG. No:- TCE.12503A-CV-3082-WS-38204

ISSUE:- P0



N
W E
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Legend

- Source
- Pump
- Junction
- MT
- Tank
- Rising Main 80mm Dia GI Pipe
- GHAR Cluster

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File Name : 12503A-CV-38205-Rev-P0

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TITLE:- NETWORK DRAWING OF LIS GHAR FOR BHAWARNA BLOCK, KANGRA DISTRICT.

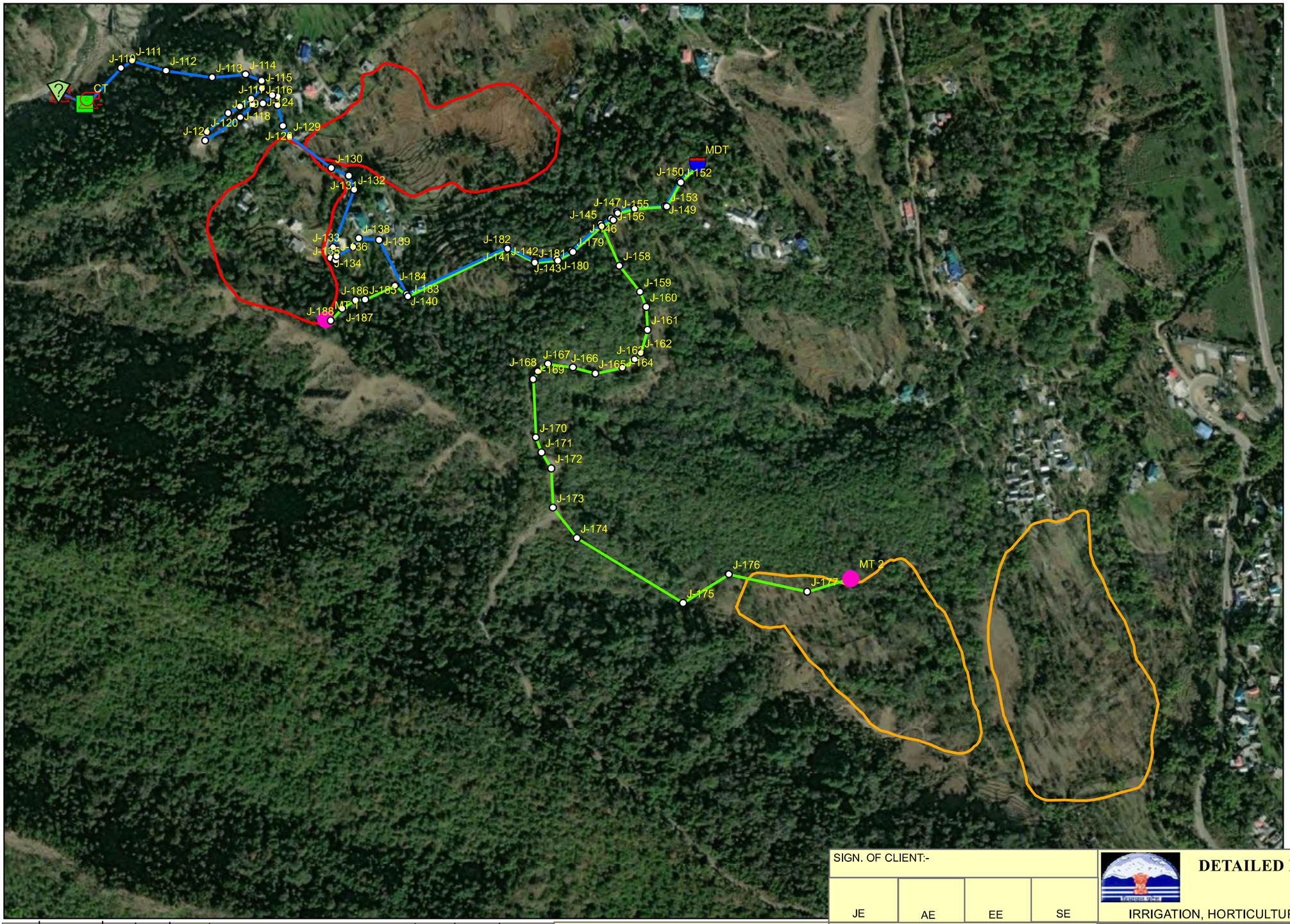
TATACONSULTING ENGINEERS LIMITED.
MUMBAI

SCALE:- 1:4,500

DL.CEN.:- DEL-CV

DWG. No:- TCE.12503A-CV-3082-WS-38205

ISSUE:- P0



Legend

- Source
- Pump
- Junction
- MDT
- MT
- Tank
- Gravity Main 80mm Dia GI Pipe
- Rising Main 80mm Dia GI Pipe
- Malahu_1
- Malahu_2

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	INITIALS	GKJ	SKAC	DVB			MK	DK		20-07-2022
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File Name : 12503A-CV-38206-Rev-P0

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TITLE:-

NETWORK DRAWING OF LIS MALAHU (MALAHU - 1 & 2 CLUSTER) FOR BHAWARNA BLOCK, KANGRA DISTRICT.

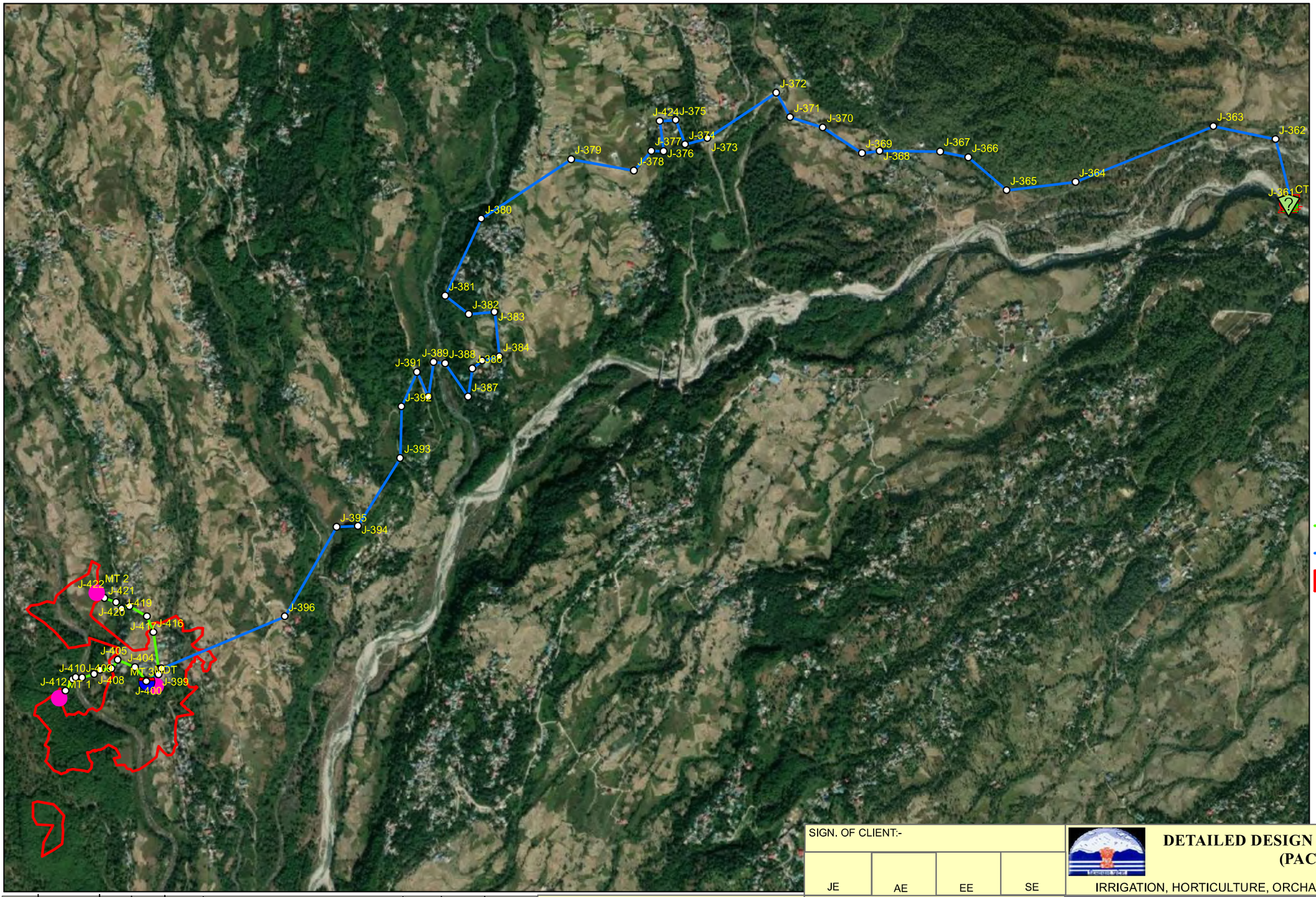
TATACONSULTING ENGINEERS LIMITED.
MUMBAI

SCALE:- 1:5,500

DL.CEN.:- DEL-CV

DWG. No:- TCE.12503A-CV-3082-WS-38206

ISSUE:- P0



N
W E
S

Legend

- Source
- Pump
- Junction
- MDT
- MT
- Tank
- Gravity Main 80mm Dia GI Pipe
- Rising Main 150mm Dia GI Pipe
- Sidhpur

SIGN. OF CLIENT:-

JE	AE	EE	SE

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

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File Name : 12503A-CV-38207-Rev-P0

TITLE:- NETWORK DRAWING OF LIS SIDPUR FOR BHAWARNA BLOCK, KANGRA DISTRICT.

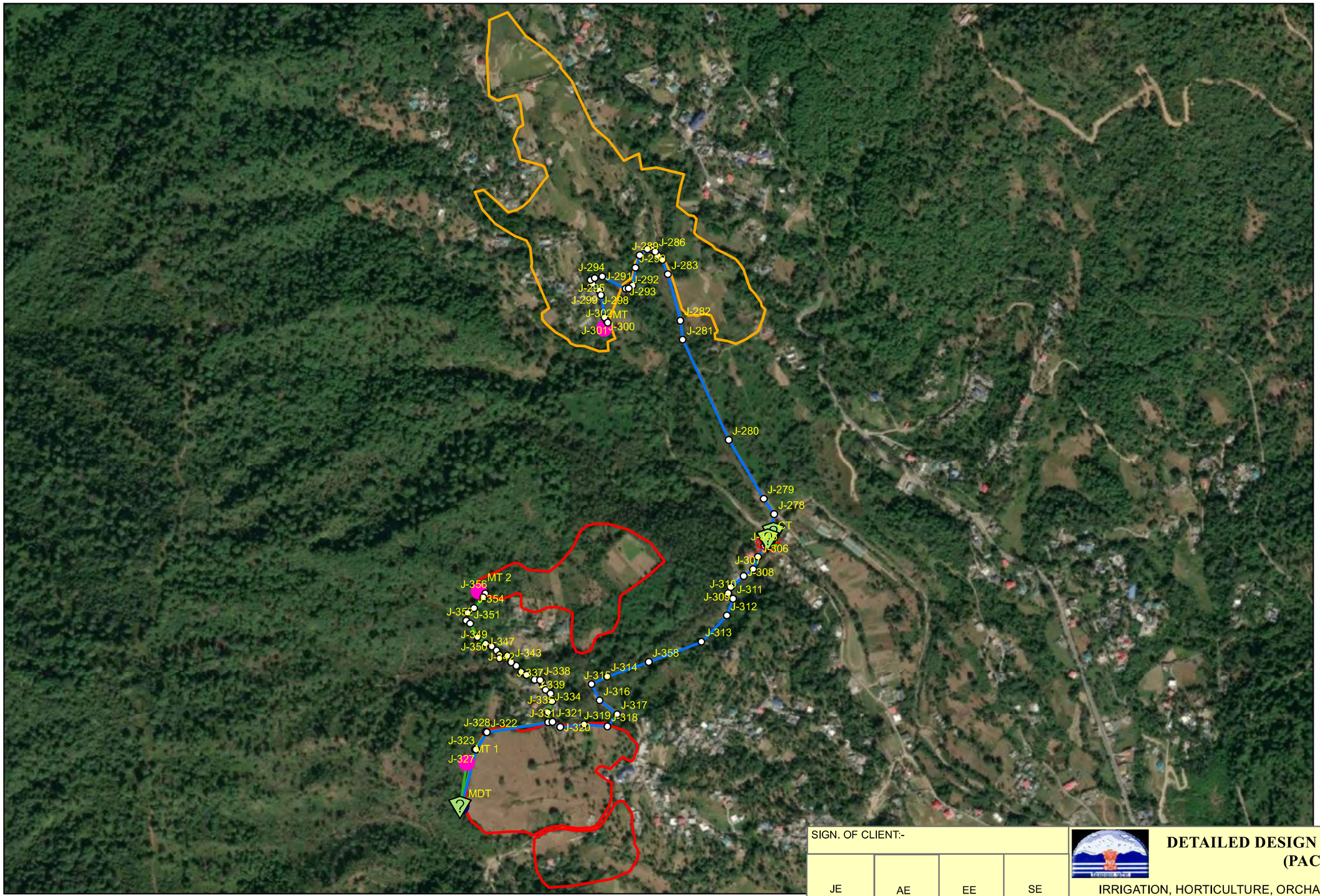
TATACONSULTING ENGINEERS LIMITED.
MUMBAI

SCALE:- 1:18,500

DL.CEN.:- DEL-CV

DWG. No:- TCE.12503A-CV-3082-WS-38207

ISSUE:- P0



Legend

- Source
- Pump
- Junction
- MDT
- MT
- Tank
- Gravity Main 80mm Dia GI Pipe
- Rising Main 100mm Dia GI Pipe
- Rising Main 150mm Dia GI Pipe
- Chartkhola Cluster
- Ludhran_1_2 Cluster

SIGN. OF CLIENT:-

JE	AE	EE	SE

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

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File Name : 12503A-CV-38208-Rev-P0

TITLE:-

NETWORK DRAWING OF LIS CHARTKHOLA AND LUDHRAN - 1 & 2 FOR BHAWARNA BLOCK, KANGRA DISTRICT.

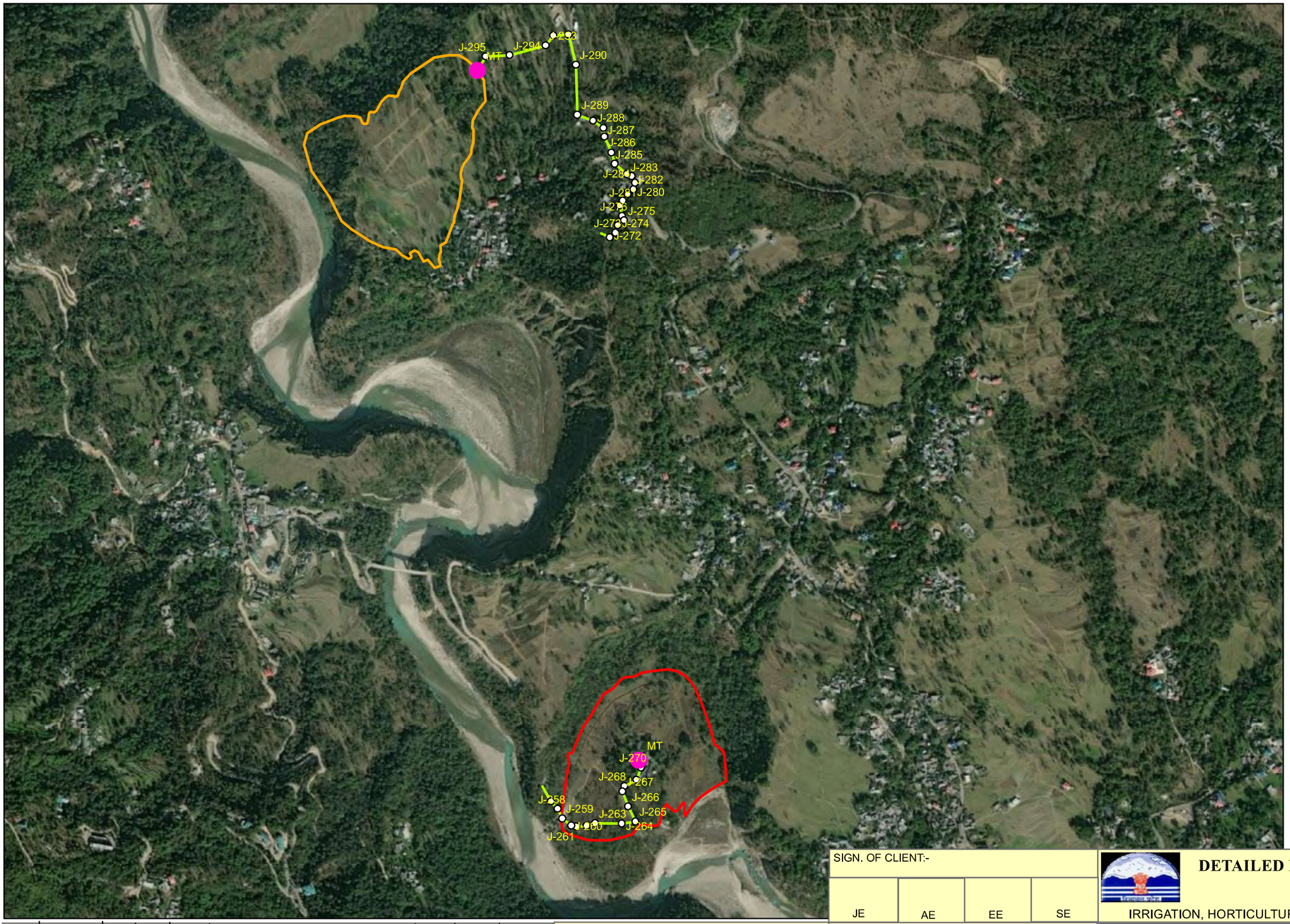
TATACONSULTING ENGINEERS LIMITED.
MUMBAI

SCALE:- 1:10,000

DL.CEN.:- DEL-CV

DWG. No:- TCE.12503A-CV-3082-WS-38208

ISSUE:- P0



Legend

- Junction
- MT
- Gravity Main 80mm Dia GI Pipe
- Malodhan
- Jangal

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File Name : 12503A-CV-38209-Rev-P0

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TITLE:- NETWORK DRAWING OF LIS ALAMPUR (JANGAL CLUSTER, MALODHAN CLUSTER) FOR LAMBAGOAN BLOCK, KANGRA DISTRICT.

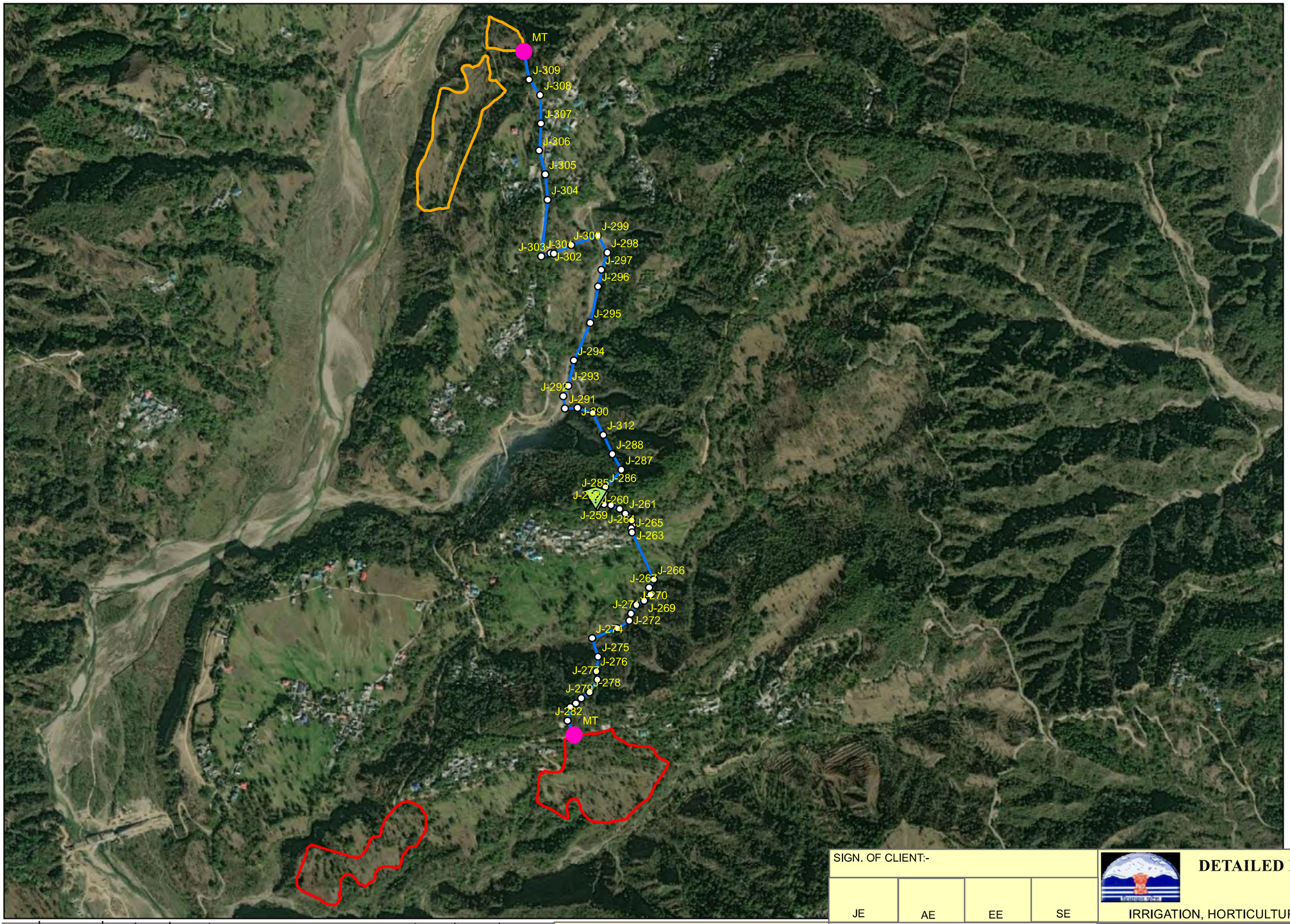
TATACONSULTING ENGINEERS LIMITED. MUMBAI

SCALE:- 1:10,000

DL.CEN.:- DEL-CV

DWG. No:- TCE.12503A-CV-3082-WS-38209

ISSUE:- P0



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Legend

- Source
- Junction
- MDT
- MT
- Rising Main 80mm Dia GI Pipe
- ODRI
- KOTLU

SIGN. OF CLIENT:-

JE	AE	EE	SE

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

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File Name : 12503A-CV-38210-Rev-P0

TITLE:- NETWORK DRAWING OF LIS BANDHUI (KOTLU CLUSTER, ODRI CLUSTER) FOR LAMBAGOAN BLOCK, KANGRA DISTRICT.

TATACONSULTING ENGINEERS LIMITED. MUMBAI

SCALE:- 1:12,000	DWG. No:-	ISSUE:-
DL.CEN.:- DEL-CV	TCE.12503A-CV-3082-WS-38210	P0

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- Source
- Pump
- MT
- Rising Main 80mm Dia GI Pipe
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File Name : 12503A-CV-38211-Rev-P0

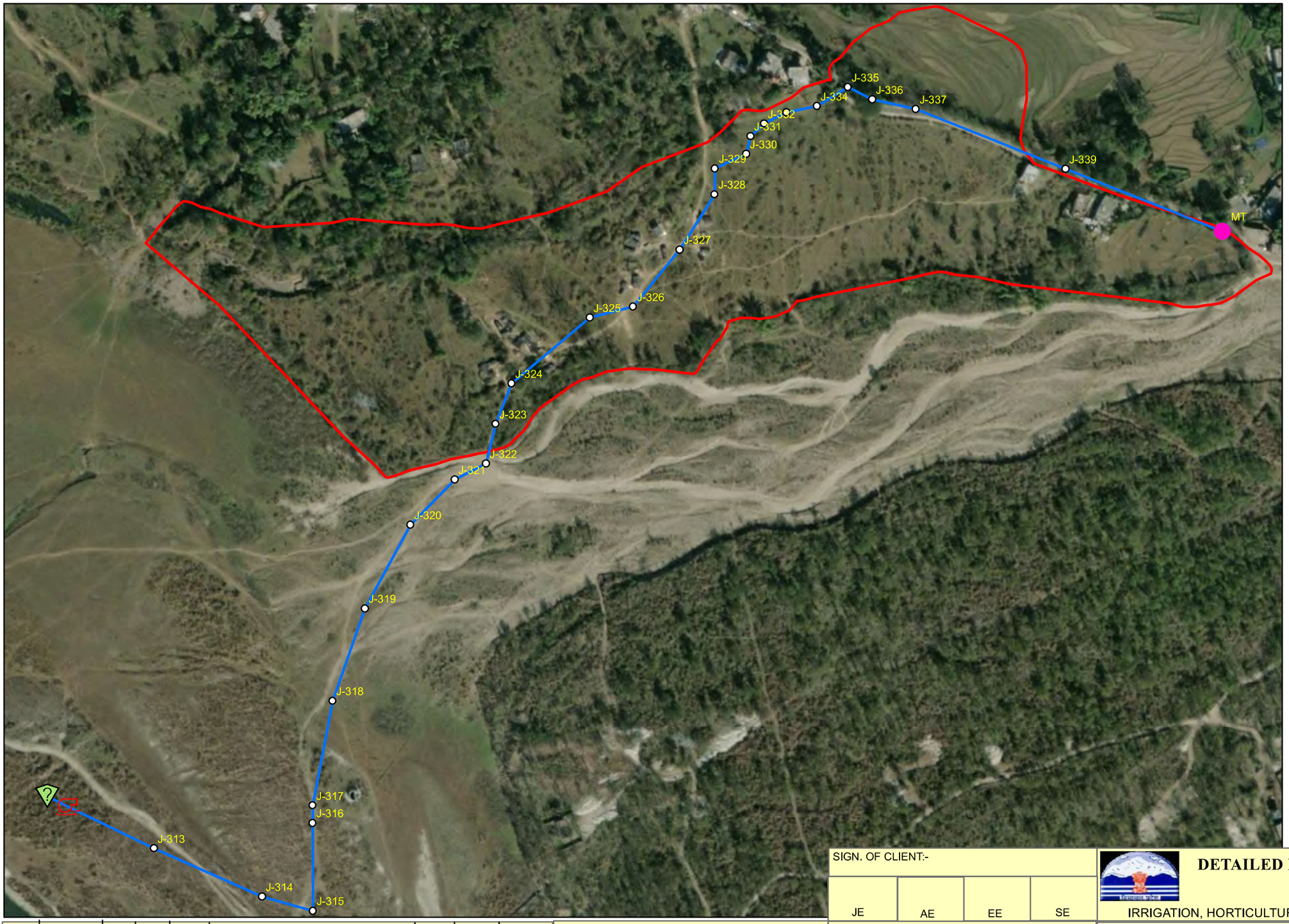
DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TITLE:- NETWORK DRAWING OF LIS KATHLA FOR LAMBAGOAN BLOCK, KANGRA DISTRICT.

TATACONSULTING ENGINEERS LIMITED.
MUMBAI

SCALE:- 1:2,000	DWG. No:-	ISSUE:-
DL.CEN.:- DEL-CV	TCE.12503A-CV-3082-WS-38211	P0



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- Pump
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- Rising Main 80mm Dia GI Pipe
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File Name : 12503A-CV-38212-Rev-P0

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TITLE:- NETWORK DRAWING OF LIS THANPAL FOR LAMBAGOAN BLOCK, KANGRA DISTRICT.

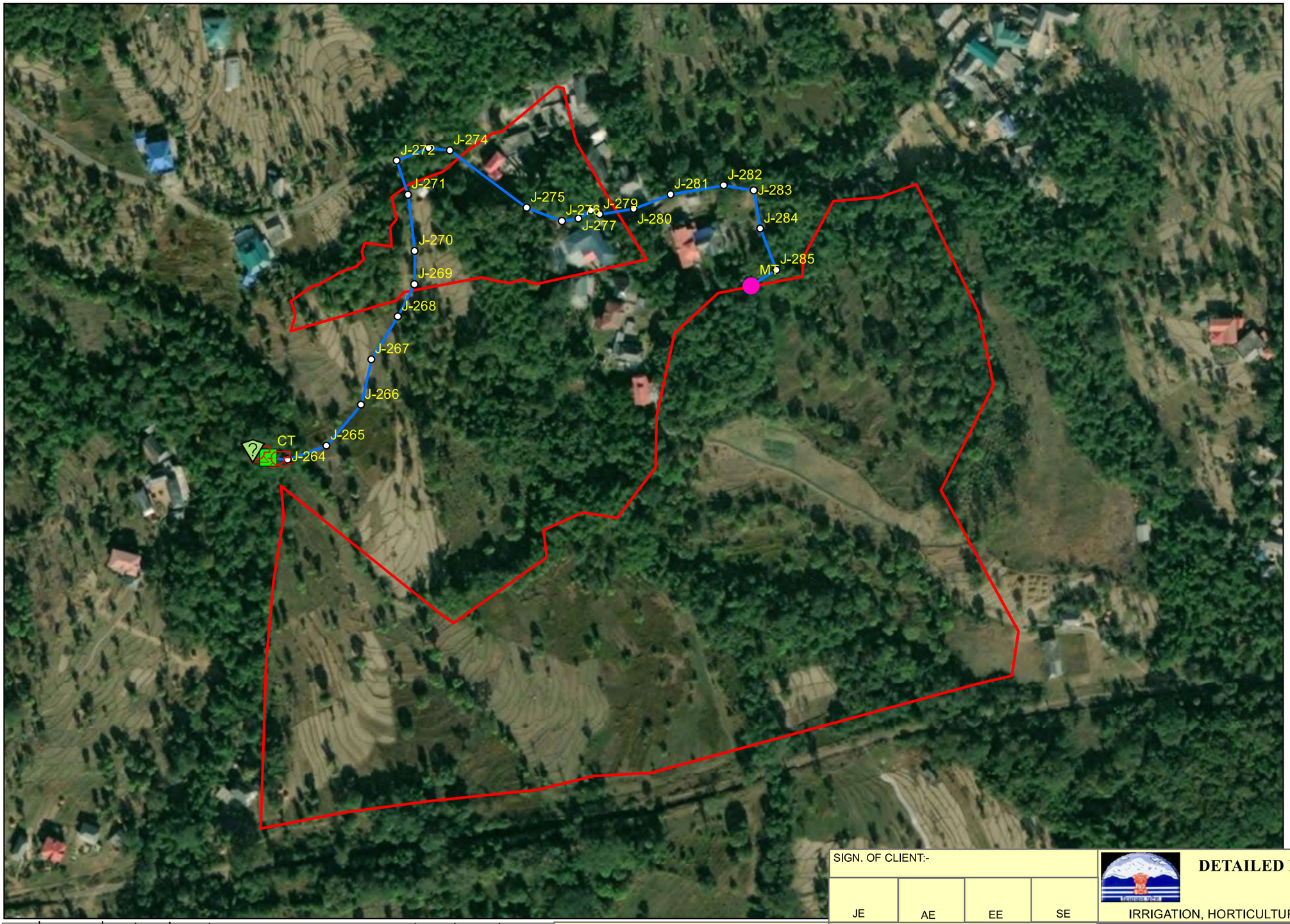
TATACONSULTING ENGINEERS LIMITED.
MUMBAI

SCALE:- 1:3,000

DL.CEN.:- DEL-CV

DWG. No:- TCE.12503A-CV-3082-WS-38212

ISSUE:- P0



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- Source
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- Tank
- Rising Main 80mm Dia GI Pipe
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SIGN. OF CLIENT:-

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DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

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File Name : 12503A-CV-38213-Rev-P0

TITLE:- NETWORK DRAWING OF LIS TREHAL FOR PANCHRUKHI BLOCK, KANGRA DISTRICT.

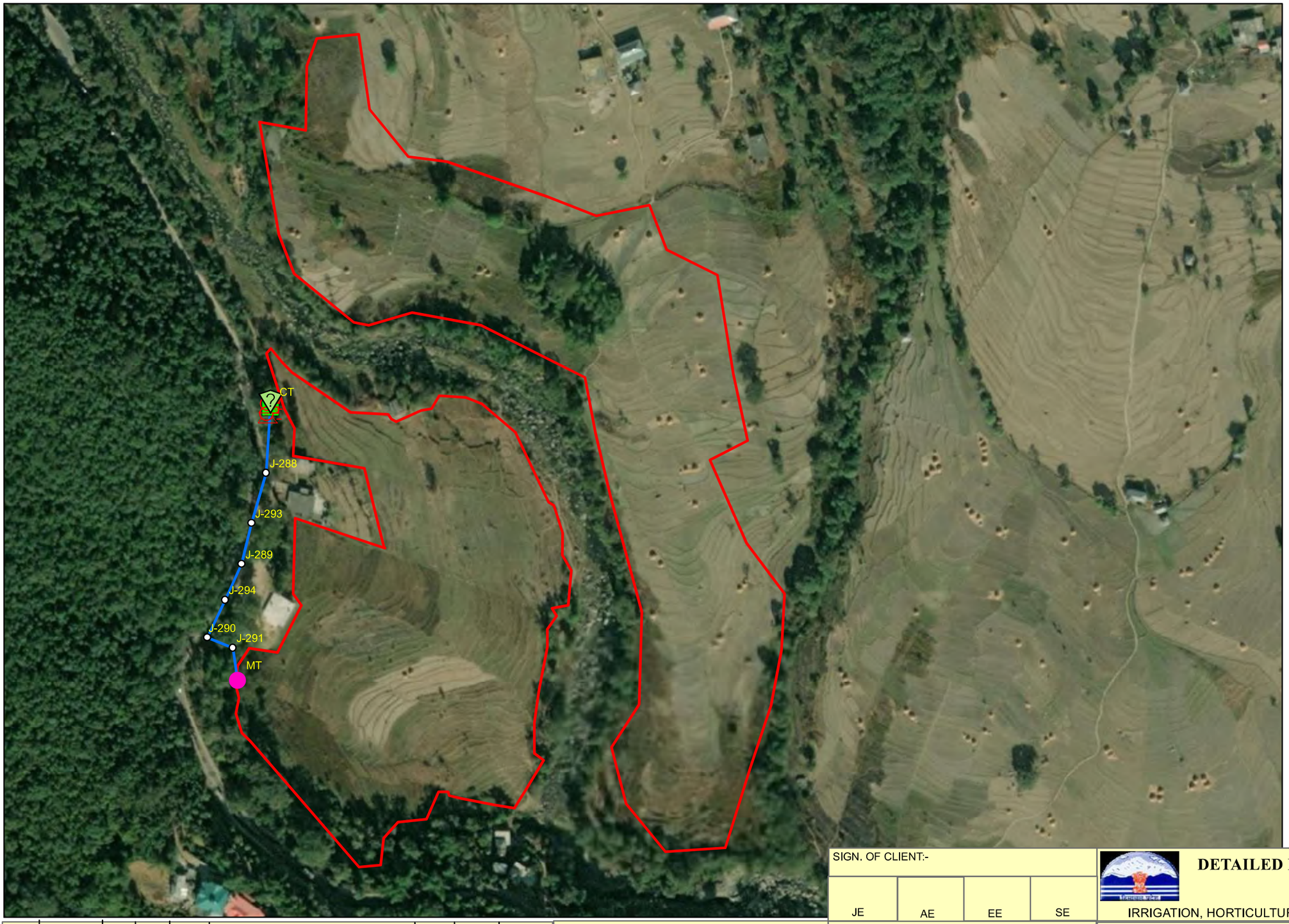
TATACONSULTING ENGINEERS LIMITED.
MUMBAI

SCALE:- 1:2,500

DL.CEN.:- DEL-CV

DWG. No:- TCE.12503A-CV-3082-WS-38213

ISSUE:- P0



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- Rising Main 80mm Dia GI Pipe
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File Name : 12503A-CV-38214-Rev-P0

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TITLE:- NETWORK DRAWING OF LIS AGOZAR FOR PANCHRUKHI BLOCK, KANGRA DISTRICT.

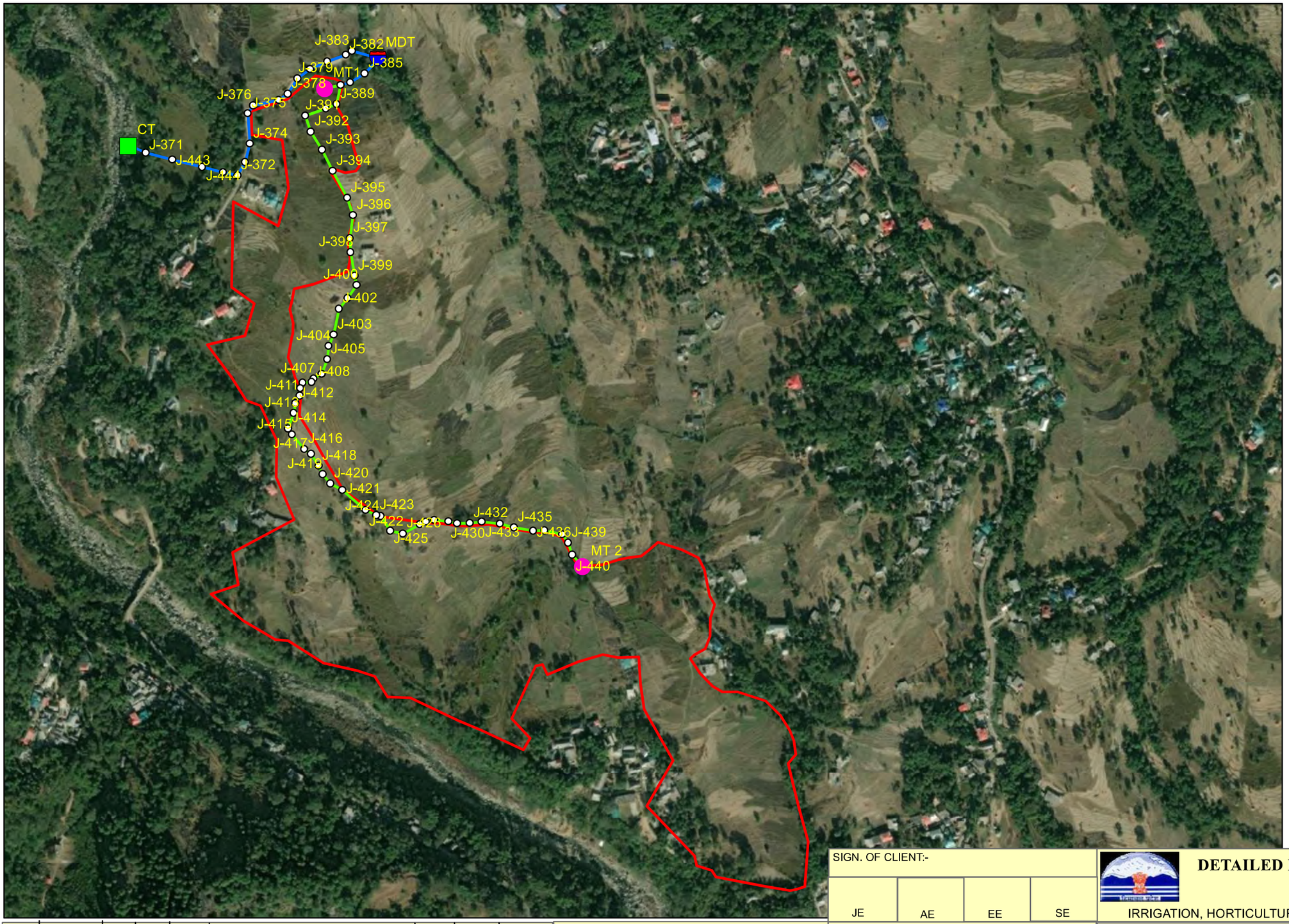
TATACONSULTING ENGINEERS LIMITED. MUMBAI

SCALE:- 1:2,500

DL.CEN.:- DEL-CV

DWG. No:- TCE.12503A-CV-3082-WS-38214

ISSUE:- P0



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- Junction
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- MT
- Tank
- Gravity Main 80mm Dia GI Pipe
- Rising Main 100mm Dia GI Pipe
- Rajot

SIGN. OF CLIENT:-

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DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

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File Name : 12503A-CV-38215-Rev-P0

TITLE:- NETWORK DRAWING OF LIS RAJOT (RAJOT - 1 & 2 CLUSTER) FOR PANCHRUKHI BLOCK, KANGRA DISTRICT.

TATACONSULTING ENGINEERS LIMITED. MUMBAI

SCALE:- 1:5,500	DWG. No:- TCE.12503A-CV-3082-WS-38215	ISSUE:- P0
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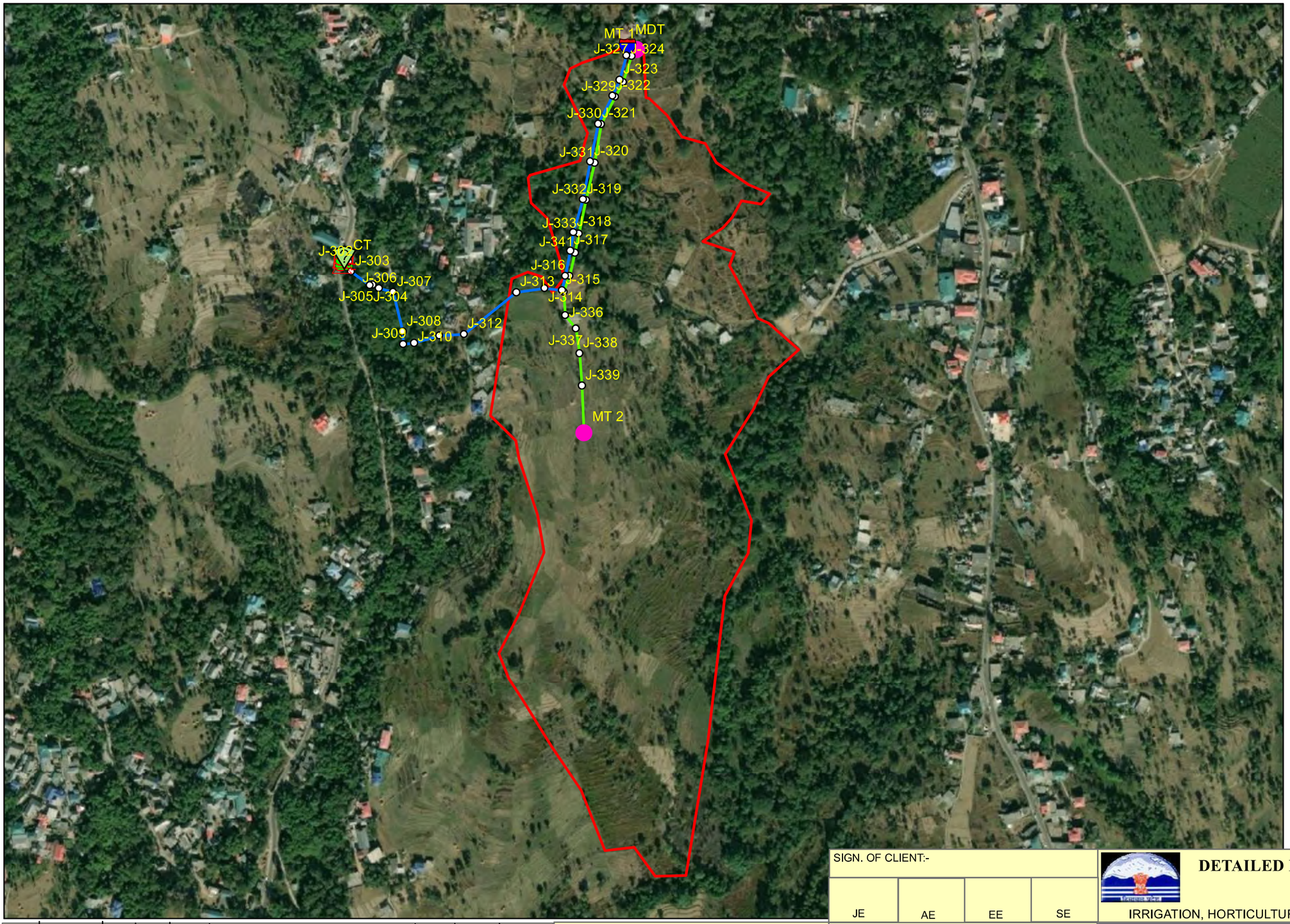

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- Source
- Pump
- Junction
- MDT
- MT
- Tank
- Gravity Main 80mm Dia GI Pipe
- Rising Main 100mm Dia GI Pipe
- Ladoh_1

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File Name : 12503A-CV-38216-Rev-P0

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TITLE:- NETWORK DRAWING OF LIS LADOH - 1 FOR PANCHRUKHI BLOCK, KANGRA DISTRICT.

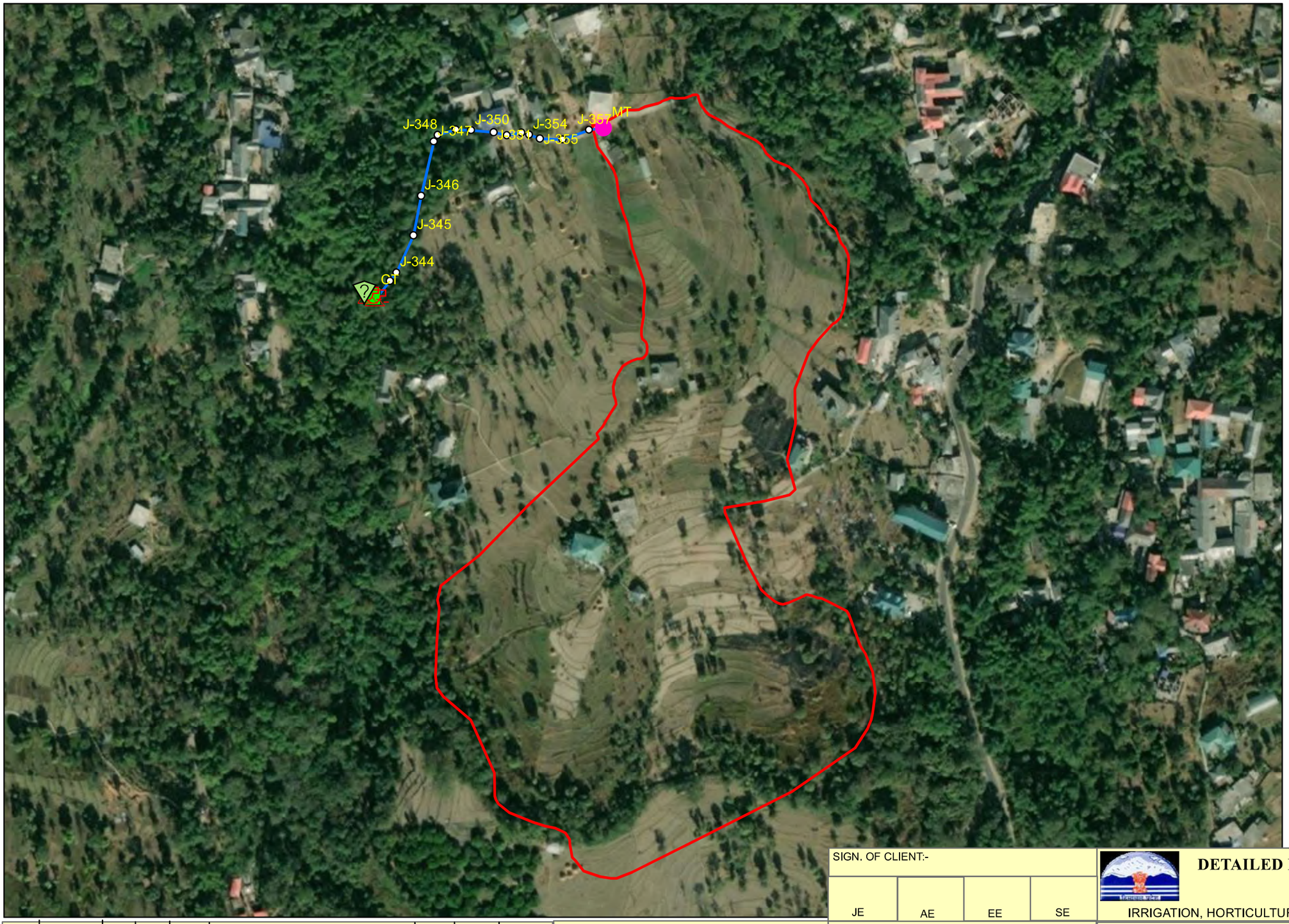
TATACONSULTING ENGINEERS LIMITED. MUMBAI

SCALE:- 1:5,000

DL.CEN.:- DEL-CV

DWG. No:- TCE.12503A-CV-3082-WS-38216

ISSUE:- P0



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- Source
- Pump
- Junction
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- Tank
- Rising Main 80mm Dia GI Pipe
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File Name : 12503A-CV-38217-Rev-P0

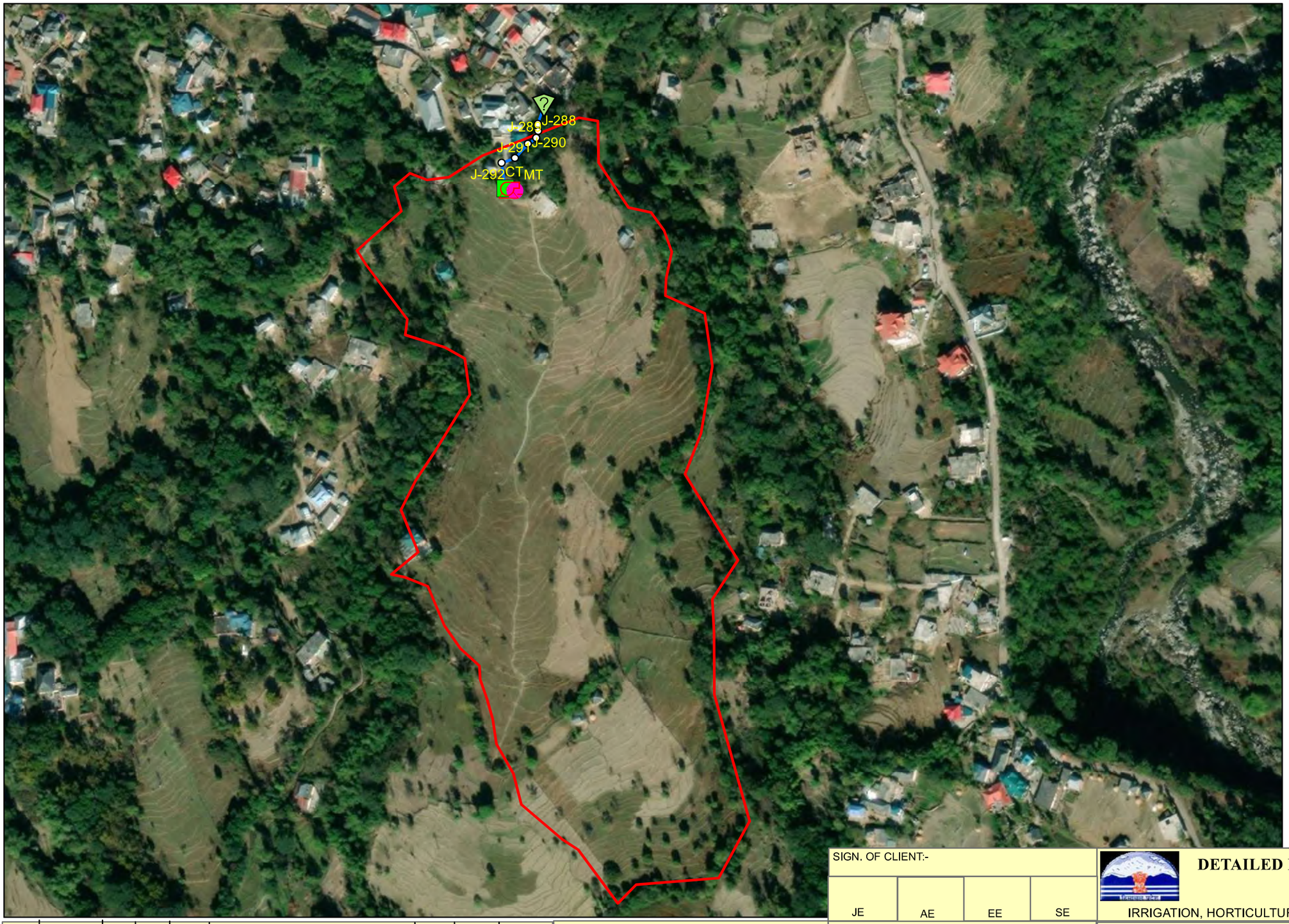
DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TITLE:- NETWORK DRAWING OF LIS LADOH - 2 FOR PANCHRUKHI BLOCK, KANGRA DISTRICT.

TATACONSULTING ENGINEERS LIMITED.
MUMBAI

SCALE:- 1:2,500	DWG. No:-	ISSUE:-
DL.CEN.:- DEL-CV	TCE.12503A-CV-3082-WS-38217	P0



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- Source
- Pump
- Junction
- MT
- Tank
- Rising Main 80mm Dia GI Pipe
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File Name : 12503A-CV-38218-Rev-P0

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TITLE:- NETWORK DRAWING OF LIS BANURI FOR PANCHRUKHI BLOCK, KANGRA DISTRICT.

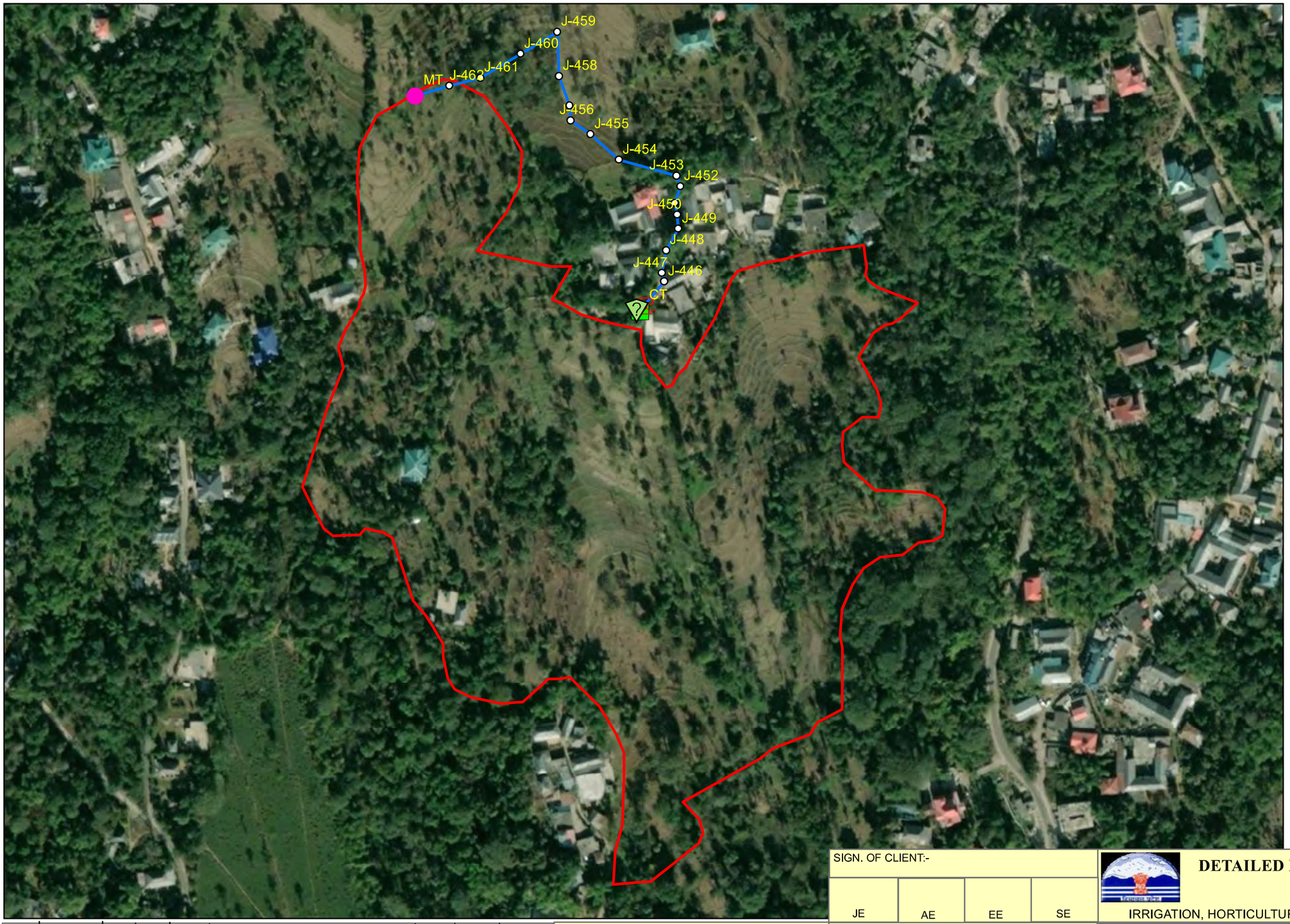
TATACONSULTING ENGINEERS LIMITED. MUMBAI

SCALE:- 1:3,000

DL.CEN.:- DEL-CV

DWG. No:- TCE.12503A-CV-3082-WS-38218

ISSUE:- P0



N
W E
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Legend

- KHUL Source
- Pump
- Junction
- MT
- Tank
- Rising Main 80mm Dia GI Pipe
- Saliana

SIGN. OF CLIENT:-

JE	AE	EE	SE

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

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	INITIALS	GKJ	SKAC	DVB			MK	DK	20-07-2022	
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ISSUE		DRN	DSN	CHD	CV	EL	IC	ME	PE/PM	APPD.	DATE
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File Name : 12503A-CV-38220-Rev-P0

TITLE:- NETWORK DRAWING OF LIS SALINA FOR PANCHRUKHI BLOCK, KANGRA DISTRICT.

TATACONSULTING ENGINEERS LIMITED.
MUMBAI

SCALE:- 1:2,500

DL.CEN.:- DEL-CV

DWG. No:- TCE.12503A-CV-3082-WS-38220

ISSUE:- P0

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Legend

- Source
- Pump
- Junction
- MT
- Tank
- Rising Main 80mm Dia GI Pipe
- Molichak

SIGN. OF CLIENT:-

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DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

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File Name : 12503A-CV-38221-Rev-P0

TITLE:- NETWORK DRAWING OF LIS MOLICHAK FOR PANCHRUKHI BLOCK, KANGRA DISTRICT.

TATACONSULTING ENGINEERS LIMITED.
MUMBAI

SCALE:-	DWG. No:-	ISSUE:-
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Legend

- Source
- Pump
- CT
- MT
- Rising Main 80mm Dia GI Pipe
- Jandpur

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File Name : 12503A-CV-38222-Rev-P0

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TITLE:- NETWORK DRAWING OF LIS JANDOUR FOR PANCHRUKHI BLOCK, KANGRA DISTRICT.

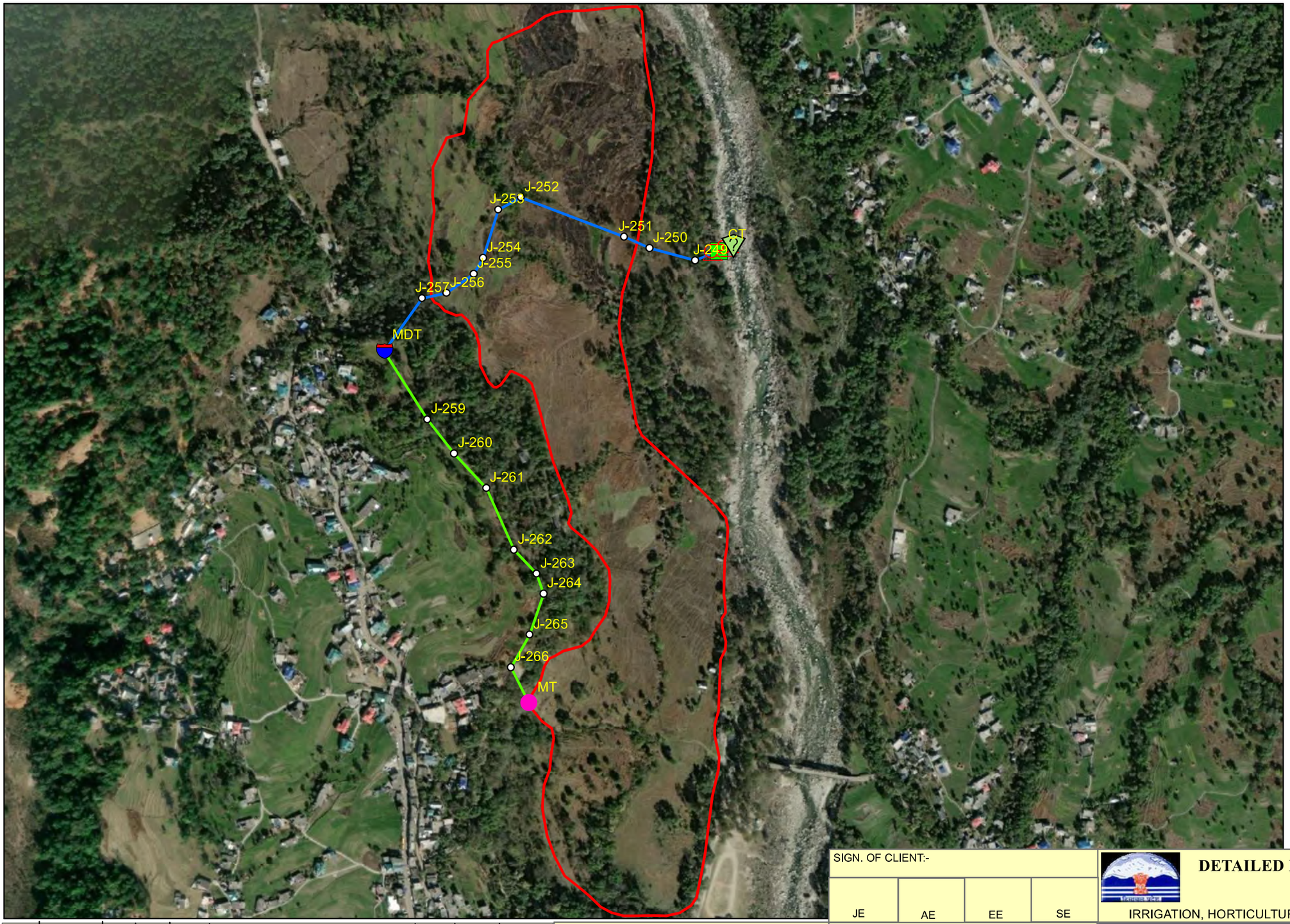
TATACONSULTING ENGINEERS LIMITED. MUMBAI

SCALE:- 1:2,500

DL.CEN.:- DEL-CV

DWG. No:- TCE.12503A-CV-3082-WS-38222

ISSUE:- P0



N
W E
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Legend

- Source
- Pump
- Junction
- MDT
- MT
- Tank
- Gravity Main 100mm Dia GI Pipe
- Rising Main 100mm Dia GI Pipe
- Dheera_1_2 Cluster

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File Name : 12503A-CV-38223-Rev-P0

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TITLE:- NETWORK DRAWING OF LIS DHEERA - 1 & 2 FOR SULLAH BLOCK, KANGRA DISTRICT.

TATACONSULTING ENGINEERS LIMITED.
MUMBAI

SCALE:- 1:6,000

DL.CEN.:- DEL-CV

DWG. No:- TCE.12503A-CV-3082-WS-38223

ISSUE:- P0

N
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Legend

- Source
- Pump
- Junction
- MT
- Tank
- Rising Main 80mm Dia GI Pipe
- Dheera_3

SIGN. OF CLIENT:-

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DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

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File Name : 12503A-CV-38224-Rev-P0

TITLE:- NETWORK DRAWING OF LIS DHEERA - 3 FOR SULLAH BLOCK, KANGRA DISTRICT.

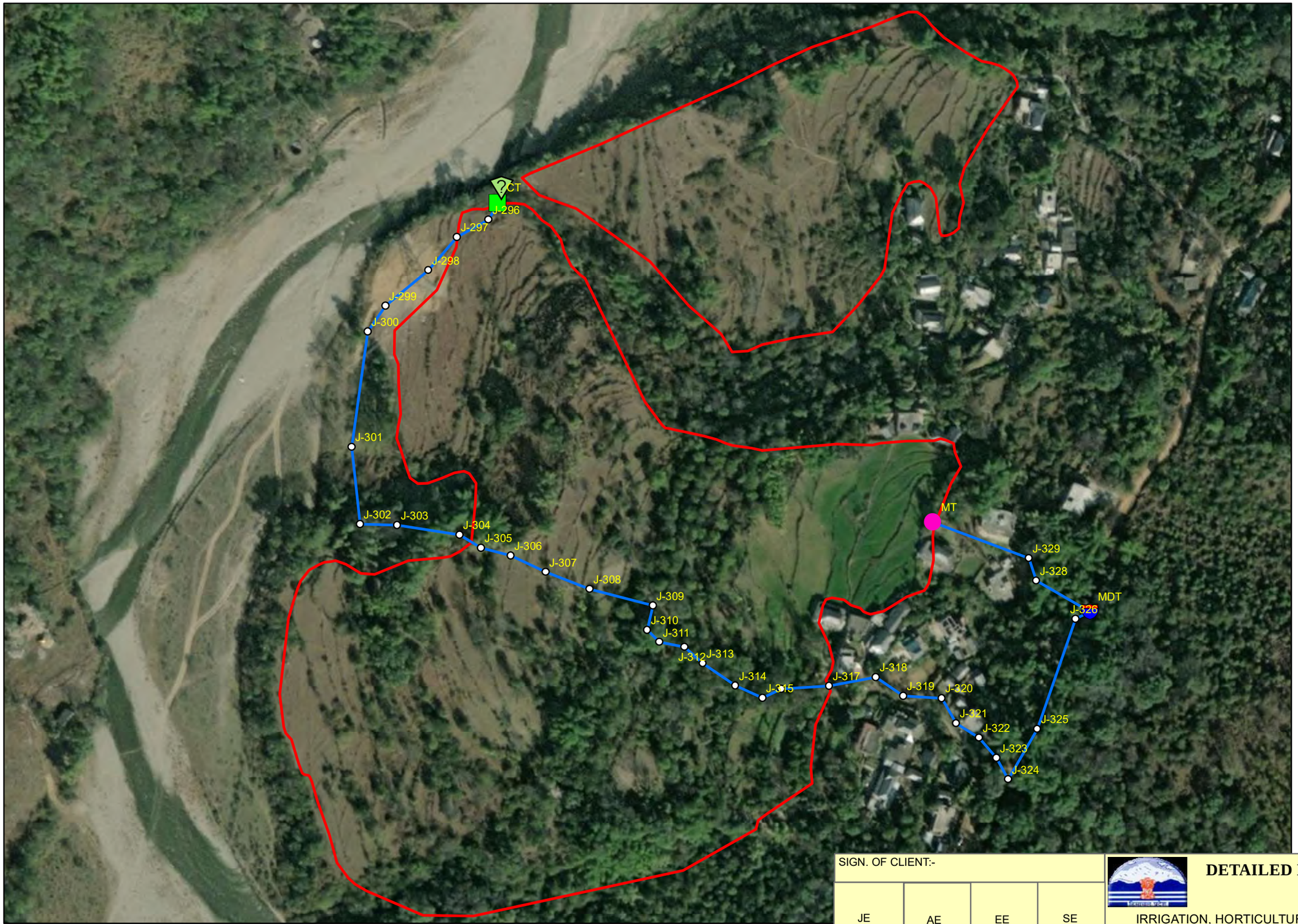
TATACONSULTING ENGINEERS LIMITED.
MUMBAI

SCALE:- 1:3,500

DL.CEN.:- DEL-CV

DWG. No:- TCE.12503A-CV-3082-WS-38224

ISSUE:- P0



N
W E
S

Legend

- Source
- Junction
- MDT
- MT
- Tank
- Rising Main 80mm Dia GI Pipe
- Kuhtera

SIGN. OF CLIENT:-

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DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

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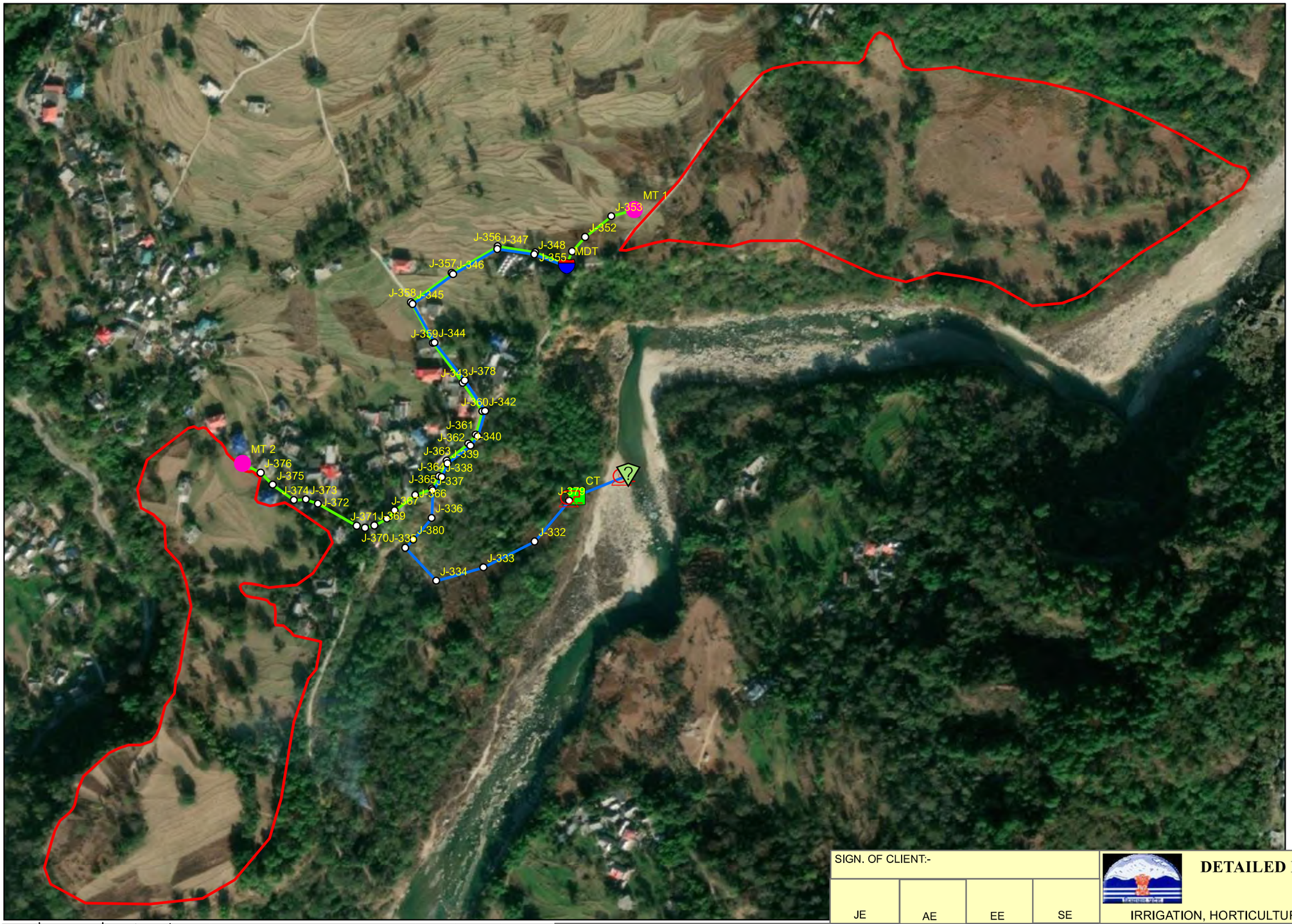
File Name : 12503A-CV-38225-Rev-P0

TITLE:-

NETWORK DRAWING OF LIS CHAINCHADI_KUTHERA FOR SULLAH BLOCK, KANGRA DISTRICT.

TATACONSULTING ENGINEERS LIMITED.
MUMBAI

SCALE:- 1:2,500	DWG. No:-	ISSUE:-
DL.CEN.:- DEL-CV	TCE.12503A-CV-3082-WS-38225	P0



Legend

- Source
- Pump
- Junction
- MDT
- MT
- Tank
- Gravity Main 80mm Dia GI Pipe
- Rising Main 100mm Dia GI Pipe
- PUDBA

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File Name : 12503A-CV-38226-Rev-P0

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TITLE:- NETWORK DRAWING OF LIS PUDBA FOR SULLAH BLOCK, KANGRA DISTRICT.

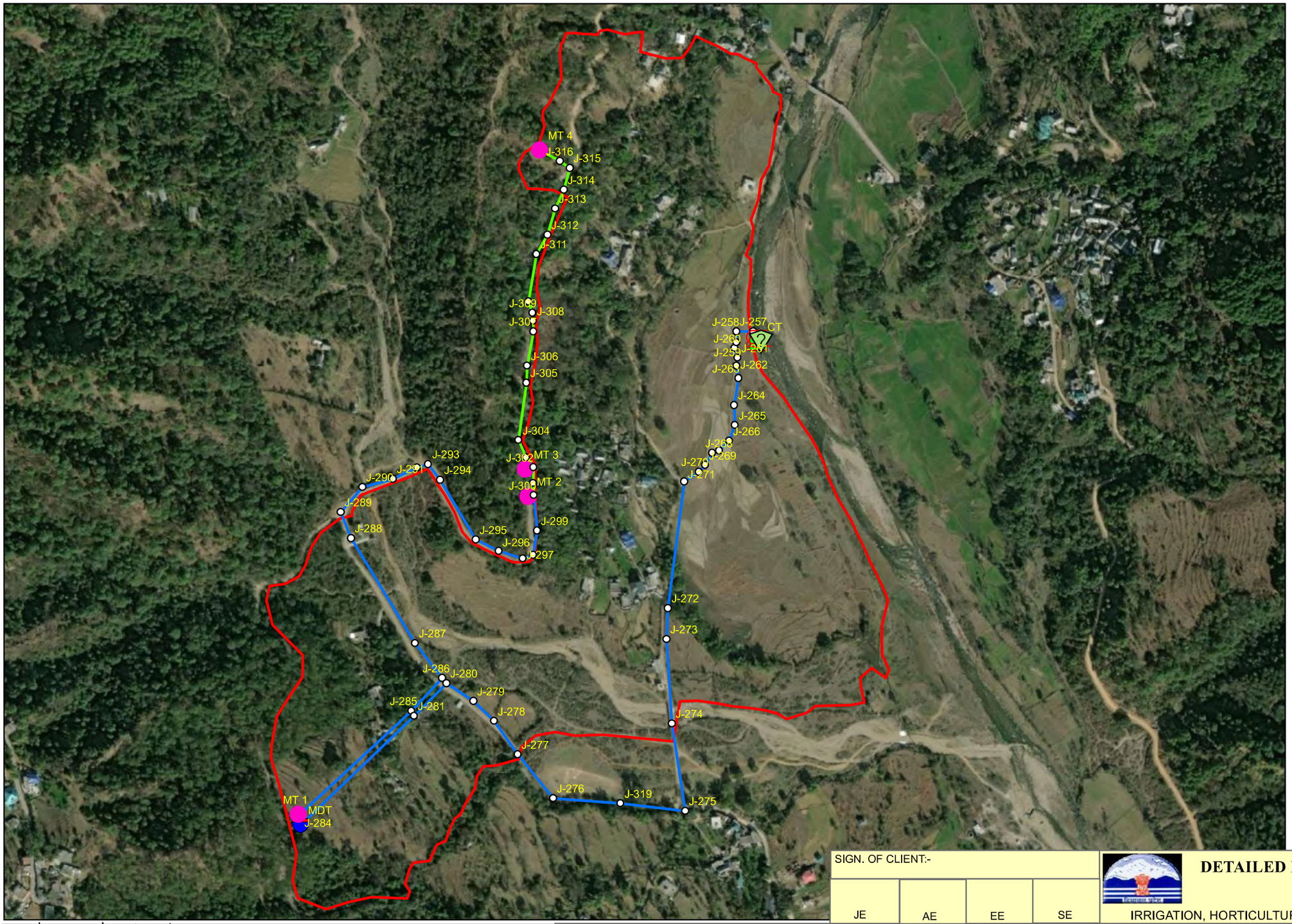
TATACONSULTING ENGINEERS LIMITED.
MUMBAI

SCALE:- 1:4,500

DL.CEN.:- DEL-CV

DWG. No:- TCE.12503A-CV-3082-WS-38226

ISSUE:- P0



N
W E
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Legend

- Source
- Pump
- Junction
- MDT
- MT
- Tank
- Gravity Main 80mm Dia GI Pipe
- Rising Main 100mm Dia GI Pipe
- CHAH

SIGN. OF CLIENT:-

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DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

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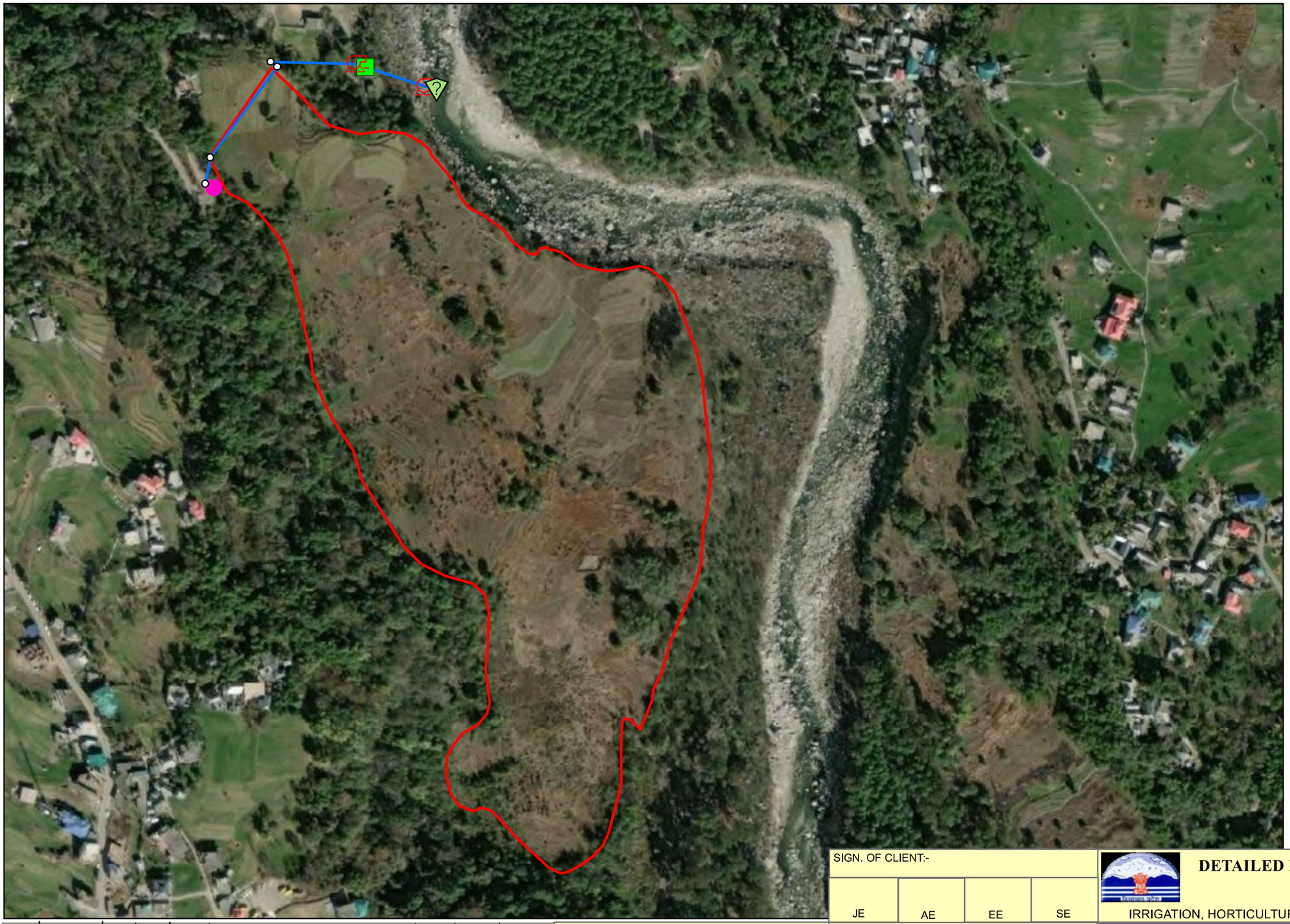
File Name : 12503A-CV-38227-Rev-P0

TITLE:-

NETWORK DRAWING OF LIS CHAH (CHANDAR CLUSTER) FOR SULLAH BLOCK, KANGRA DISTRICT.

TATACONSULTING ENGINEERS LIMITED.
MUMBAI

SCALE:- 1:5,500	DWG. No:-	ISSUE:-
DL.CEN.:- DEL-CV	TCE.12503A-CV-3082-WS-38227	P0



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Legend

- Source
- Pump
- Junction
- MT
- Tank
- Rising Main 80mm Dia GI Pipe
- Dheera_3

SIGN. OF CLIENT:-

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DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

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	INITIALS	GKJ	SKAC	DVB			MK	DK	20-07-2022	
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File Name : 12503A-CV-38228-Rev-P0

TITLE:- NETWORK DRAWING OF LIS GAGAL KHAS FOR SULLAH BLOCK, KANGRA DISTRICT.

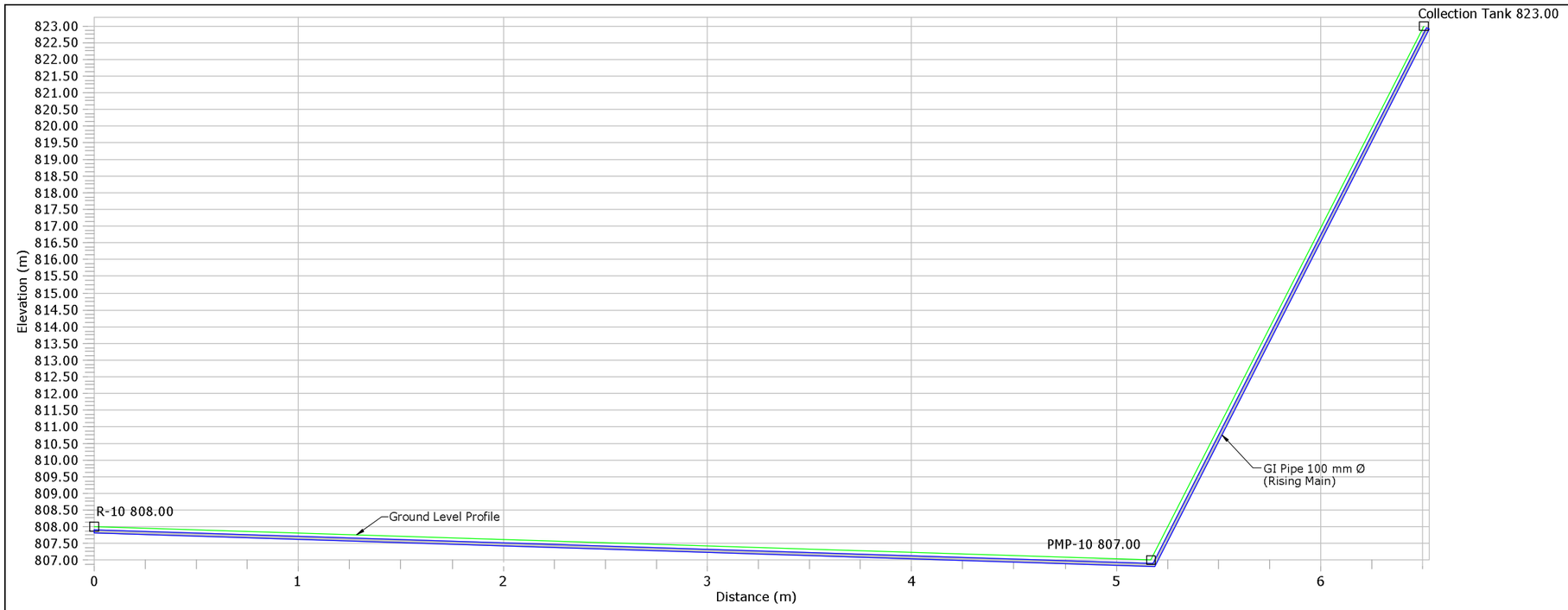
TATACONSULTING ENGINEERS LIMITED.
MUMBAI

SCALE:- 1:3,500

DL.CEN.:- DEL-CV

DWG. No:- TCE.12503A-CV-3082-WS-38228

ISSUE:- P0

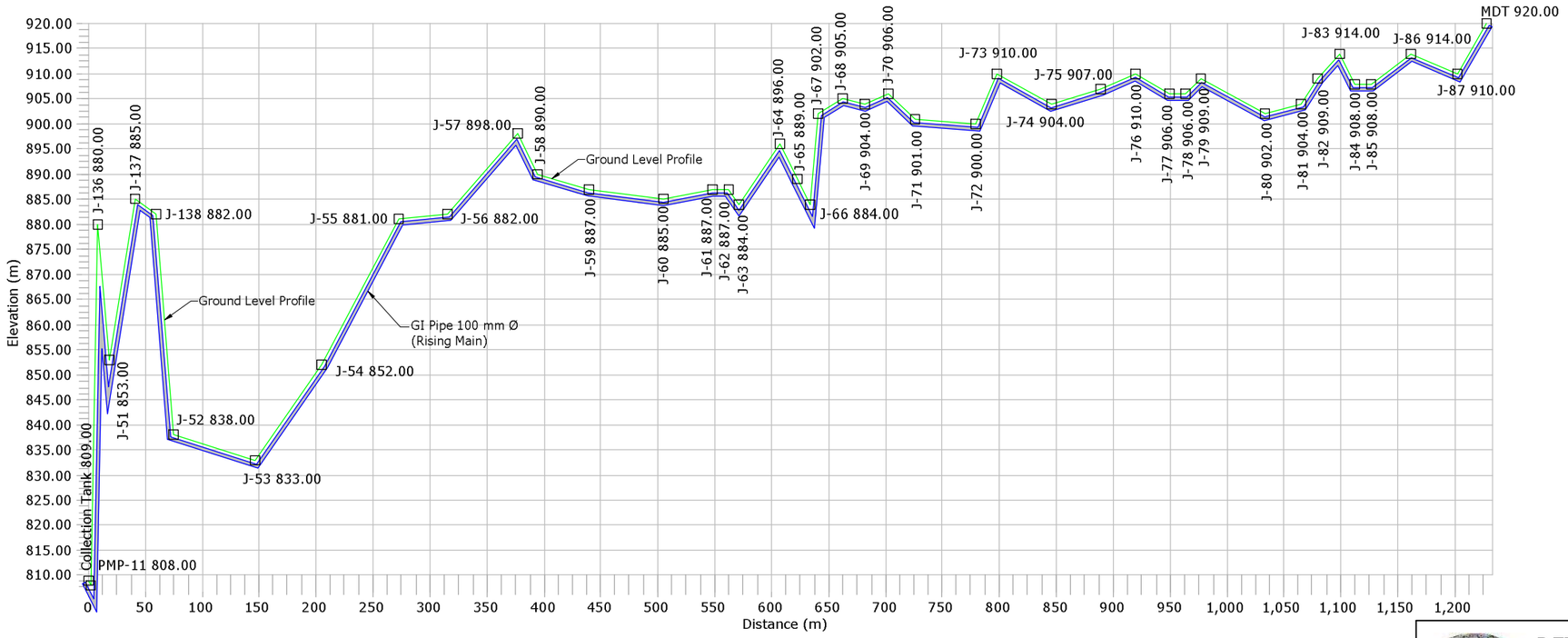


Legend :-

1. Ground Level
2. Rising Main
3. Junction
4. Air Valve
5. Scour Valve

Note:-

1. Air Valves are Considered to be provided at 500 m c/c and at High Points.
2. Scour Valves are Provided at 2000 m c/c Distance.
3. The Arrangement Shown is Tentative. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.



DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE–CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L–SECTION ON LIS BINWA KHAD – LANGHU1 & 2 AND UPPER BHET CLUSTER BAIJNATH BLOCK, KANGRA DISTRICT

(SHEET 01 OF 03)

SIGN. OF CLIENT:–

JE	AE	EE	SE

PURPOSE : FOR TENDER ONLY

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FILE NAME: 12503A–CV–38351–Rev–P0

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ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd–mm–yyyy)
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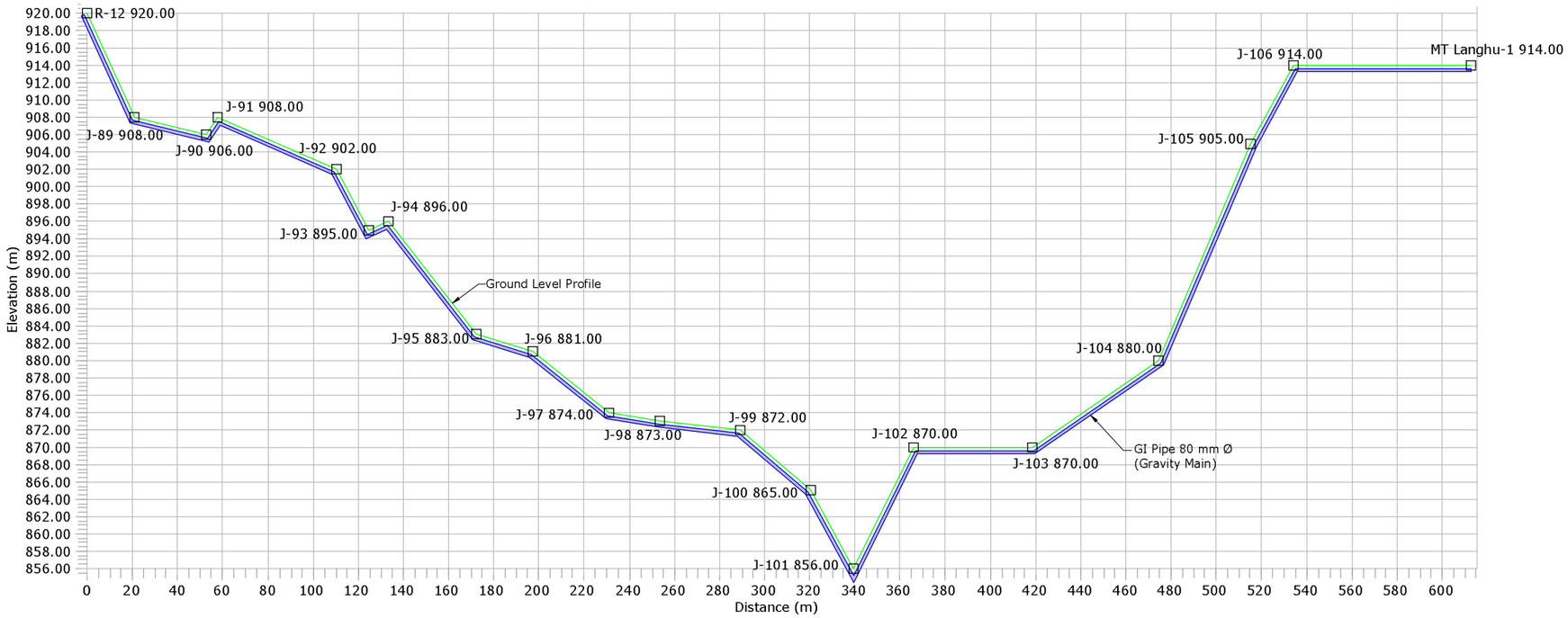
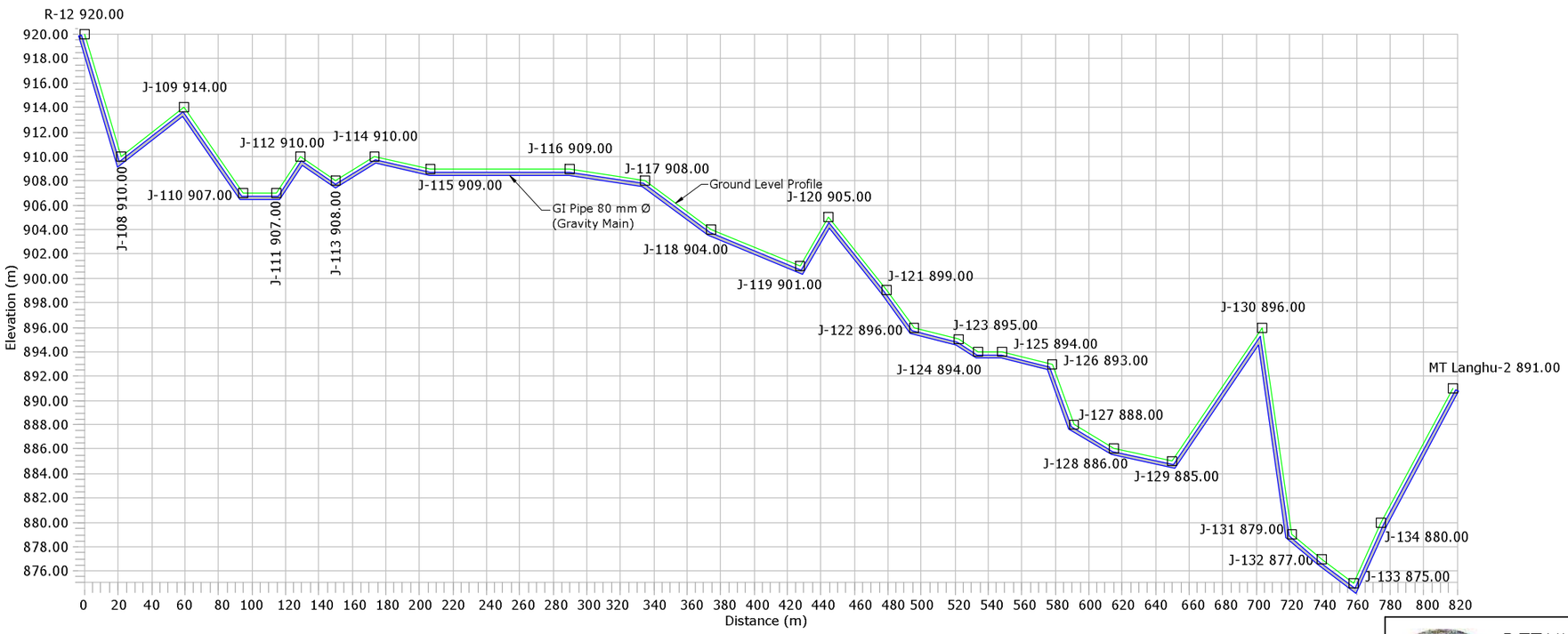
SCALE : NTS	DWG NO. TCE.12503A–CV–3082–WS–38351	ISSUE P0
DC & DISC: DEL–CV		

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1





Legend :-

1. Ground Level
2. Rising Main
3. Junction
4. Air Valve
5. Scour Valve

Note:-

1. Air Valves are Considered to be provided at 500 m c/c and at High Points.
2. Scour Valves are Provided at 2000 m c/c Distance.
3. The Arrangement Shown is Tentative. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

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FILE NAME: 12503A-CV-38352-Rev-P0

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE-CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L-SECTION ON LIS BINWA KHAD - LANGHU1 & 2 AND UPPER BHET CLUSTER BAIJNATH BLOCK, KANGRA DISTRICT (SHEET 02 OF 03)

TATA CONSULTING ENGINEERS LIMITED

MUMBAI

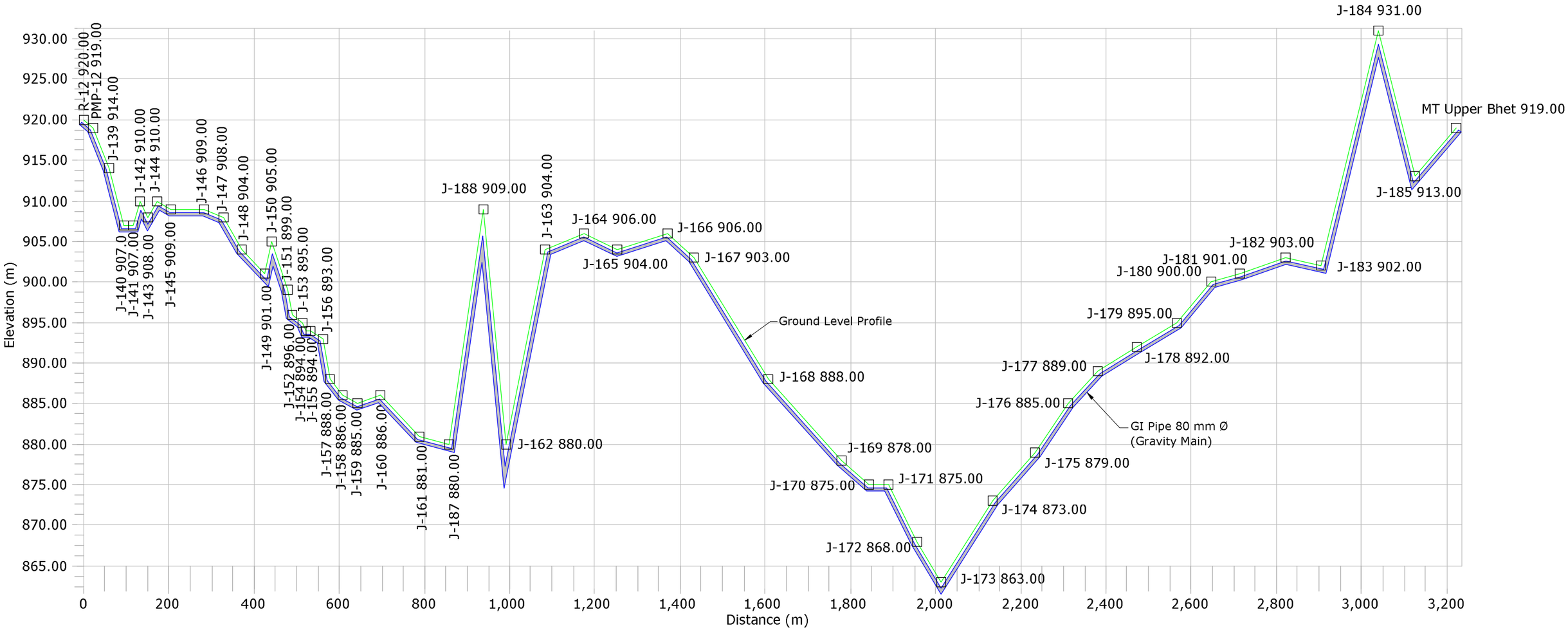
SCALE : NTS

DC & DISC: DEL-CV

DWG NO. TCE.12503A-CV -3082-WS-38352

ISSUE P0

SIZE-A3



Legend :-

1. Ground Level
2. Rising Main
3. Junction
4. Air Valve
5. Scour Valve

Note:-

1. Air Valves are Considered to be provided at 500 m c/c and at High Points.
2. Scour Valves are Provided at 2000 m c/c Distance.
3. The Arrangement Shown is Tentative. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

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FILE NAME: 12503A-CV-38353-Rev-P0

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE-CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L-SECTION ON LIS BINWA KHAD - LANGHU1 & 2 AND UPPER BHET CLUSTER BAIJNATH BLOCK, KANGRA DISTRICT (SHEET 03 OF 03)

TATA CONSULTING ENGINEERS LIMITED

MUMBAI

SCALE : NTS

DC & DISC: DEL-CV

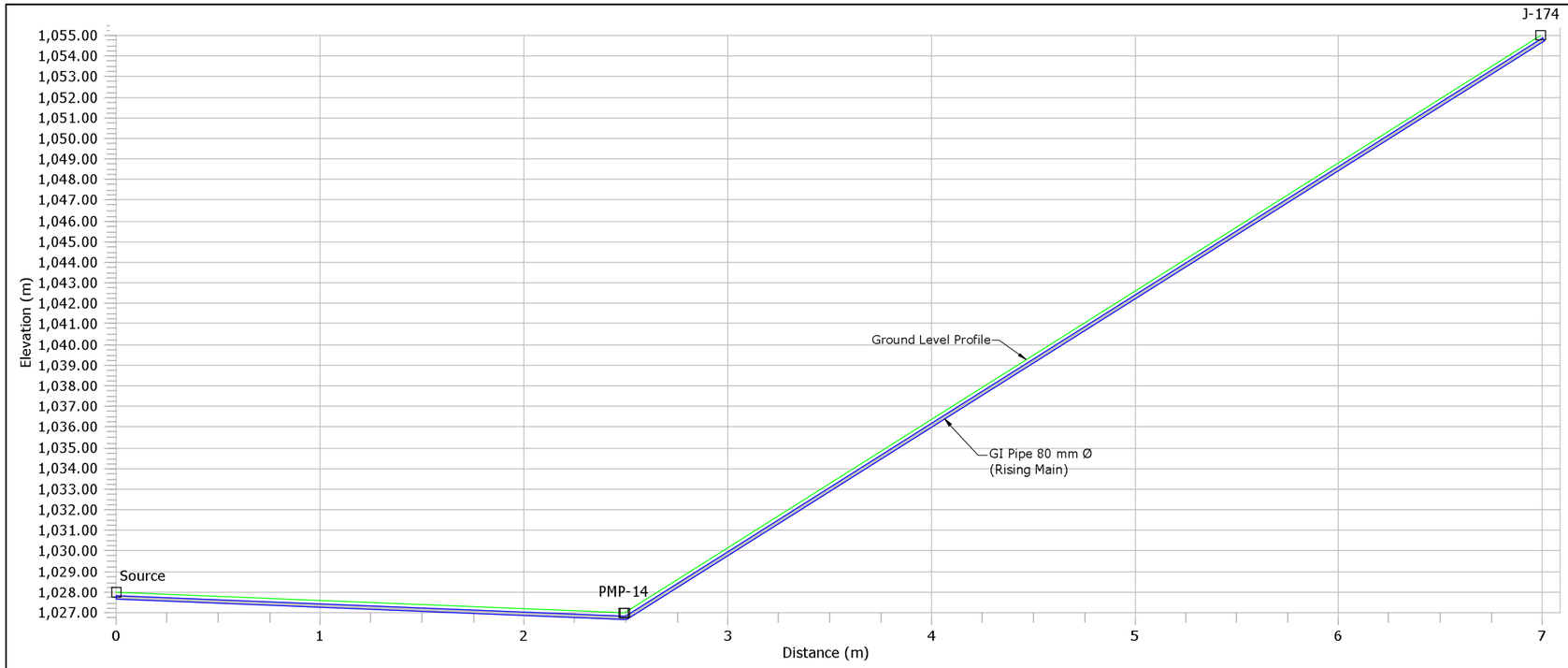
DWG NO. TCE.12503A-CV-3082-WS-38353

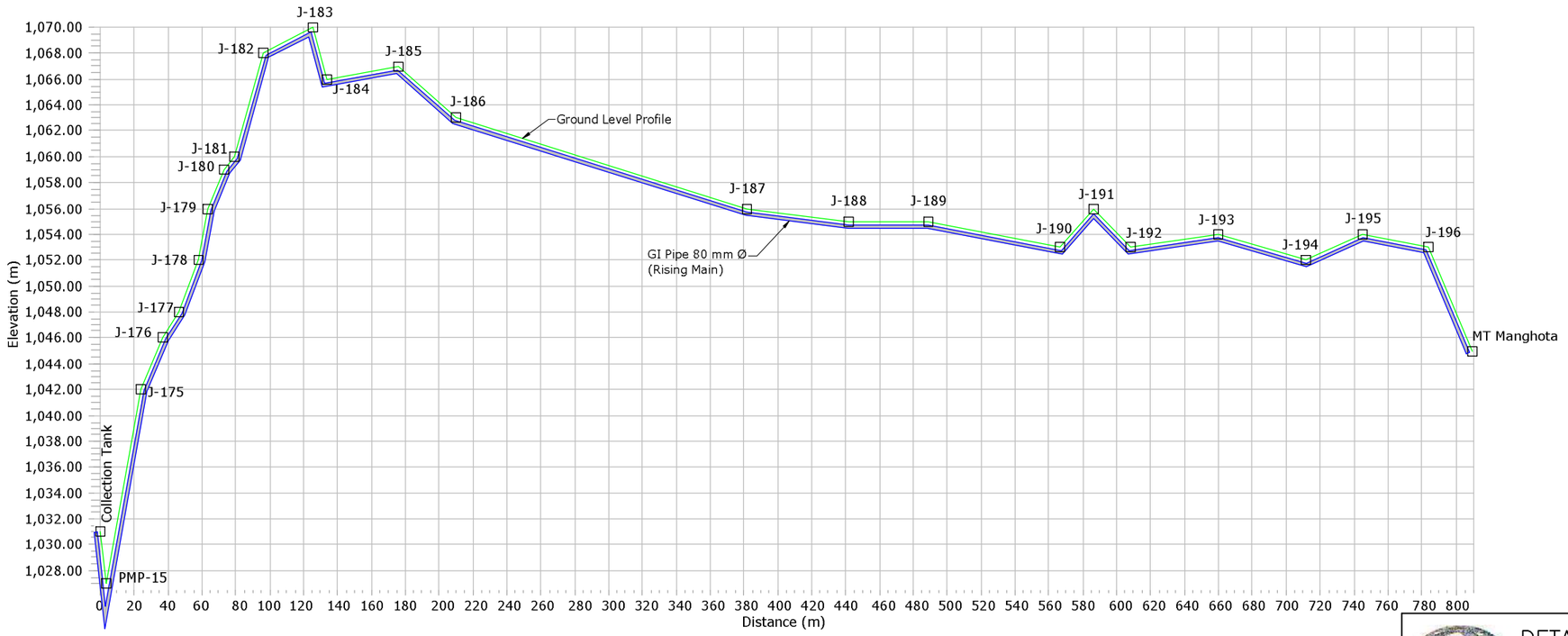
ISSUE P0

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1





Legend :-

1. Ground Level
2. Rising Main
3. Junction
4. Air Valve
5. Scour Valve

Note:-

1. Air Valves are Considered to be provided at 500 m c/c and at High Points.
2. Scour Valves are Provided at 2000 m c/c Distance.
3. The Arrangement Shown is Tentative. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

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DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE-CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L-SECTION- LIS MANGHOTA

BAIJNATH BLOCK, KANGRA DISTRICT

TATA CONSULTING ENGINEERS LIMITED

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SCALE	DWG NO.	ISSUE
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FILE NAME: F-093-Rev-R1.DWG

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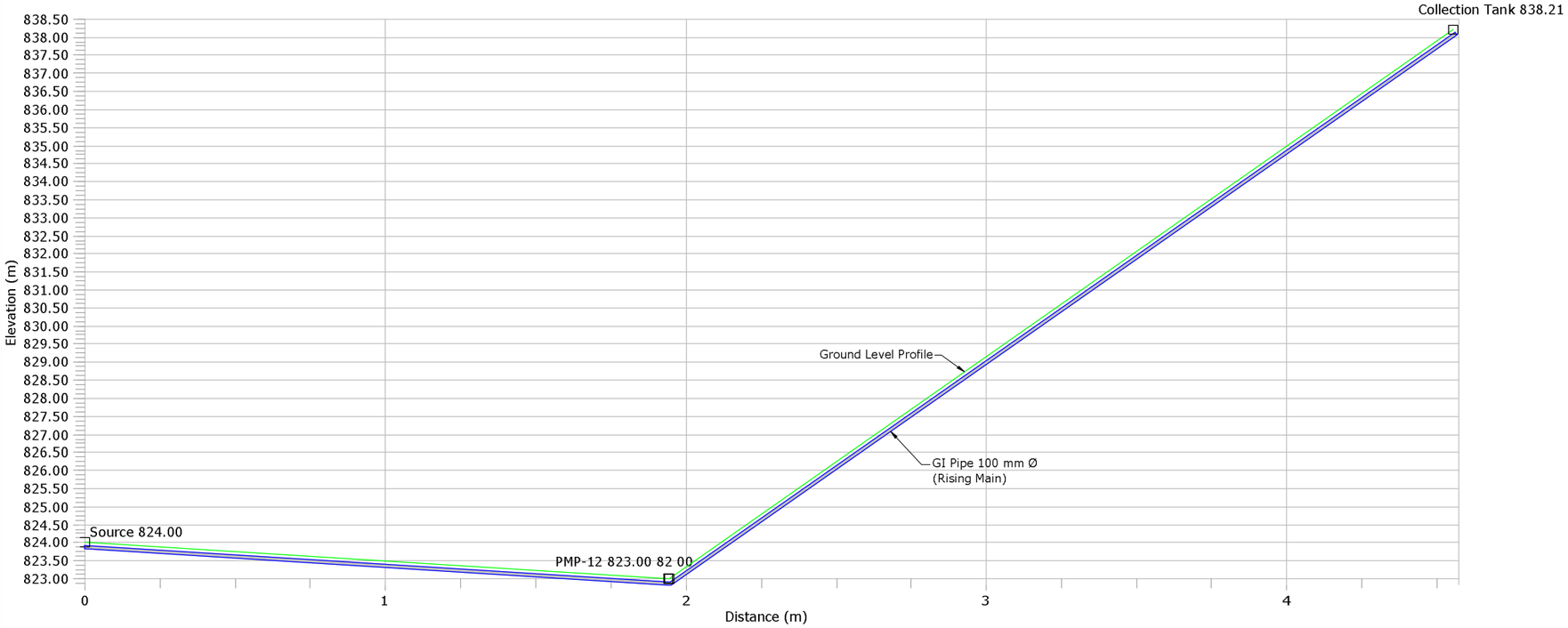

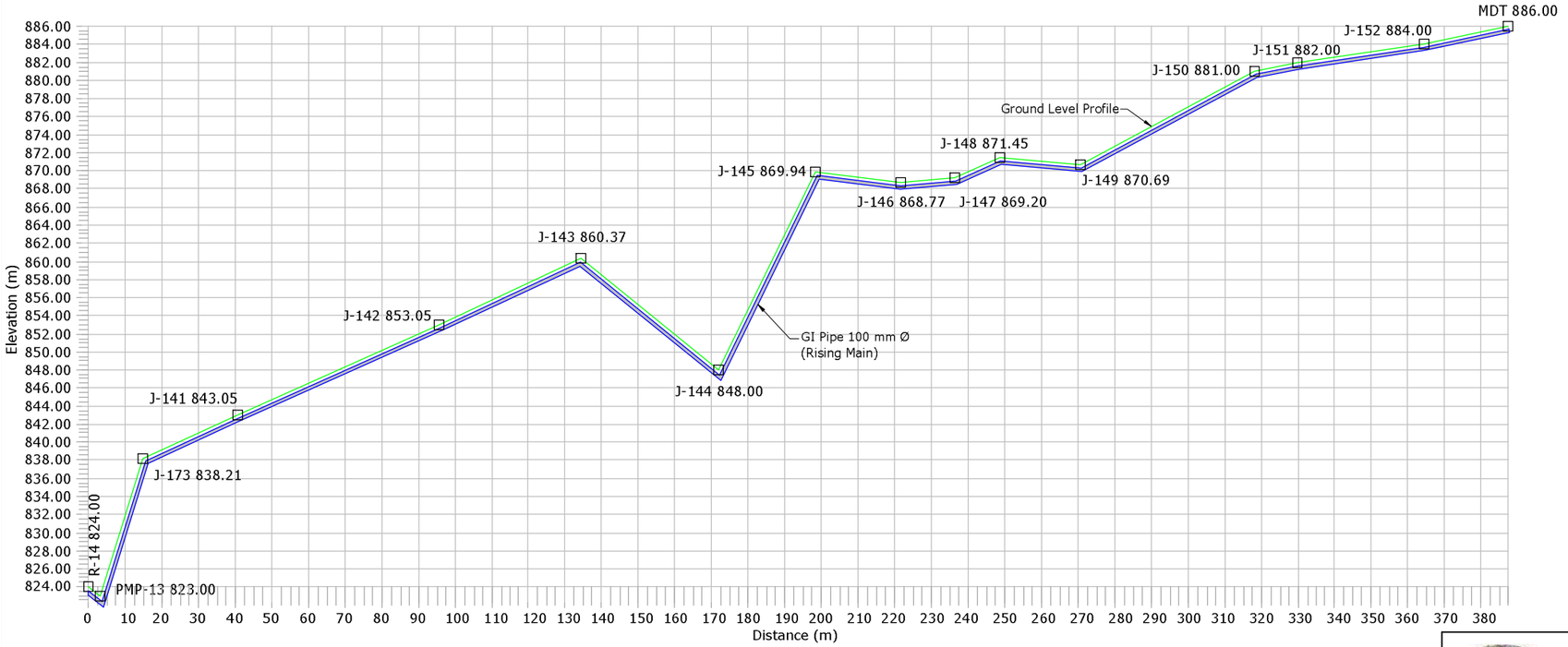

Legend :-

1. Ground Level
2. Rising Main
3. Junction
4. Air Valve
5. Scour Valve

Note:-

1. Air Valves are Considered to be provided at 500 m c/c and at High Points.
2. Scour Valves are Provided at 2000 m c/c Distance.
3. The Arrangement Shown is Tentative. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

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DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE-CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L-SECTION - LIS KUDAIL
BAIJNATH BLOCK, KANGRA DISTRICT
(SHEET 01 OF 02)

TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A-CV-3082-WS-38355	ISSUE P0	SIZE-A3
DC & DISC: DEL-CV			

FILE NAME: F-093-Rev-R1.DWG

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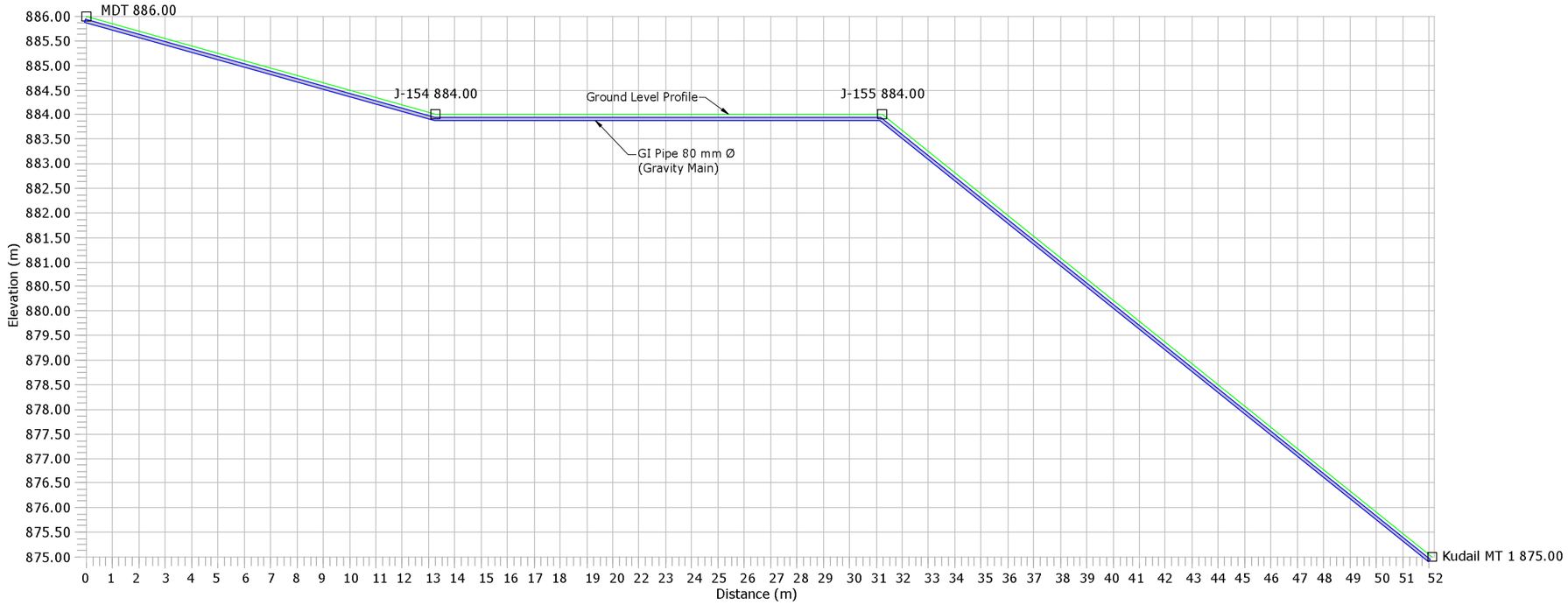

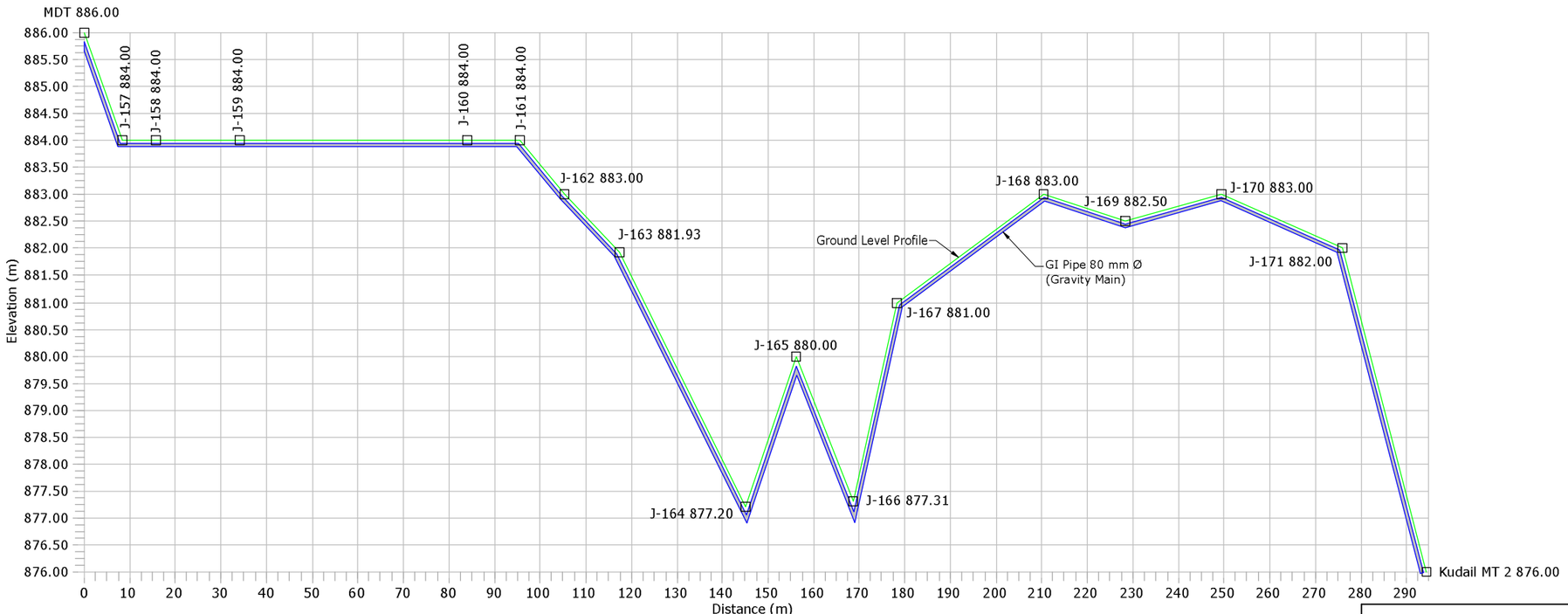

Legend :-

1. Ground Level
2. Rising Main
3. Junction
4. Air Valve
5. Scour Valve

Note:-

1. Air Valves are Considered to be provided at 500 m c/c and at High Points.
2. Scour Valves are Provided at 2000 m c/c Distance.
3. The Arrangement Shown is Tentative. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

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FILE NAME: 12503A–CV–38356–Rev–P0

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IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L–SECTION – LIS KUDAIL
BAIJNATH BLOCK, KANGRA DISTRICT
(SHEET 02 OF 02)

TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE	DWG NO.	ISSUE
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DC & DISC: DEL–CV		

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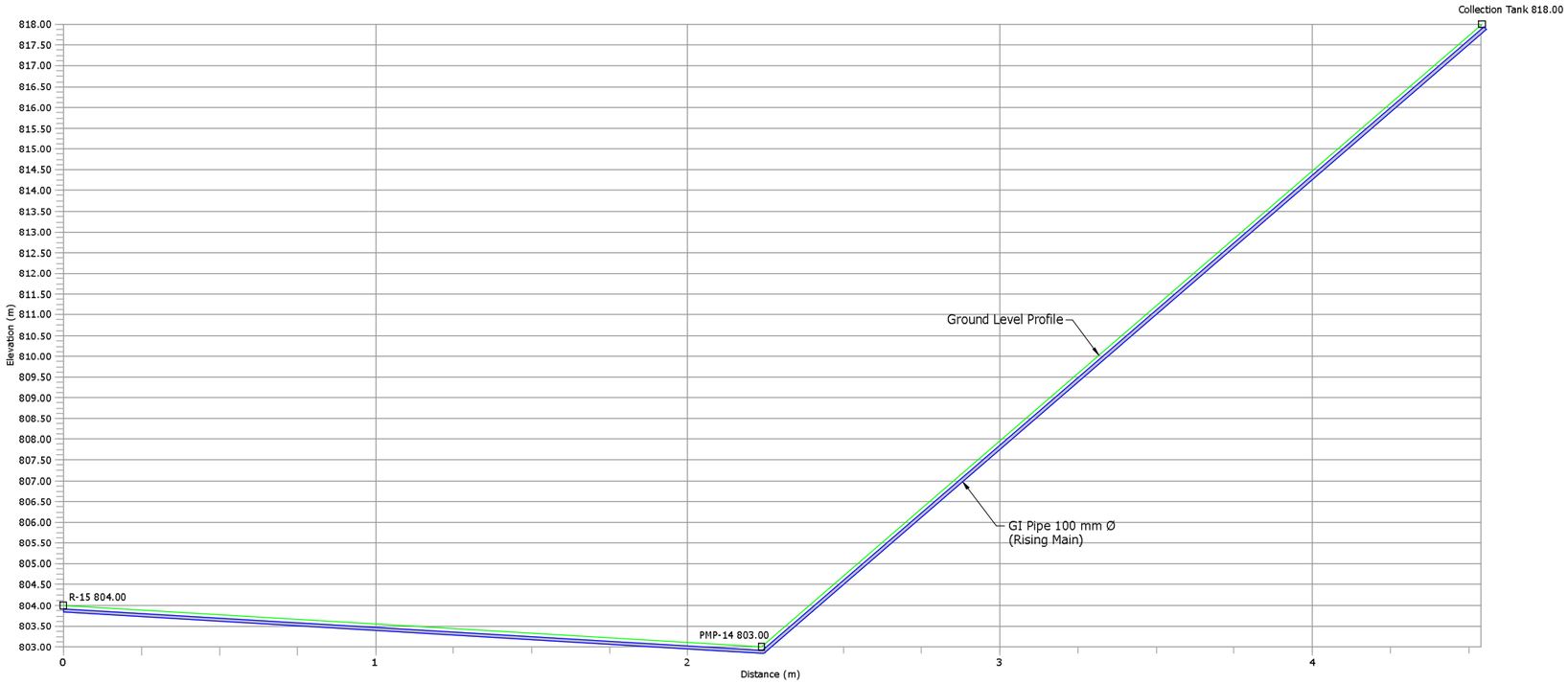

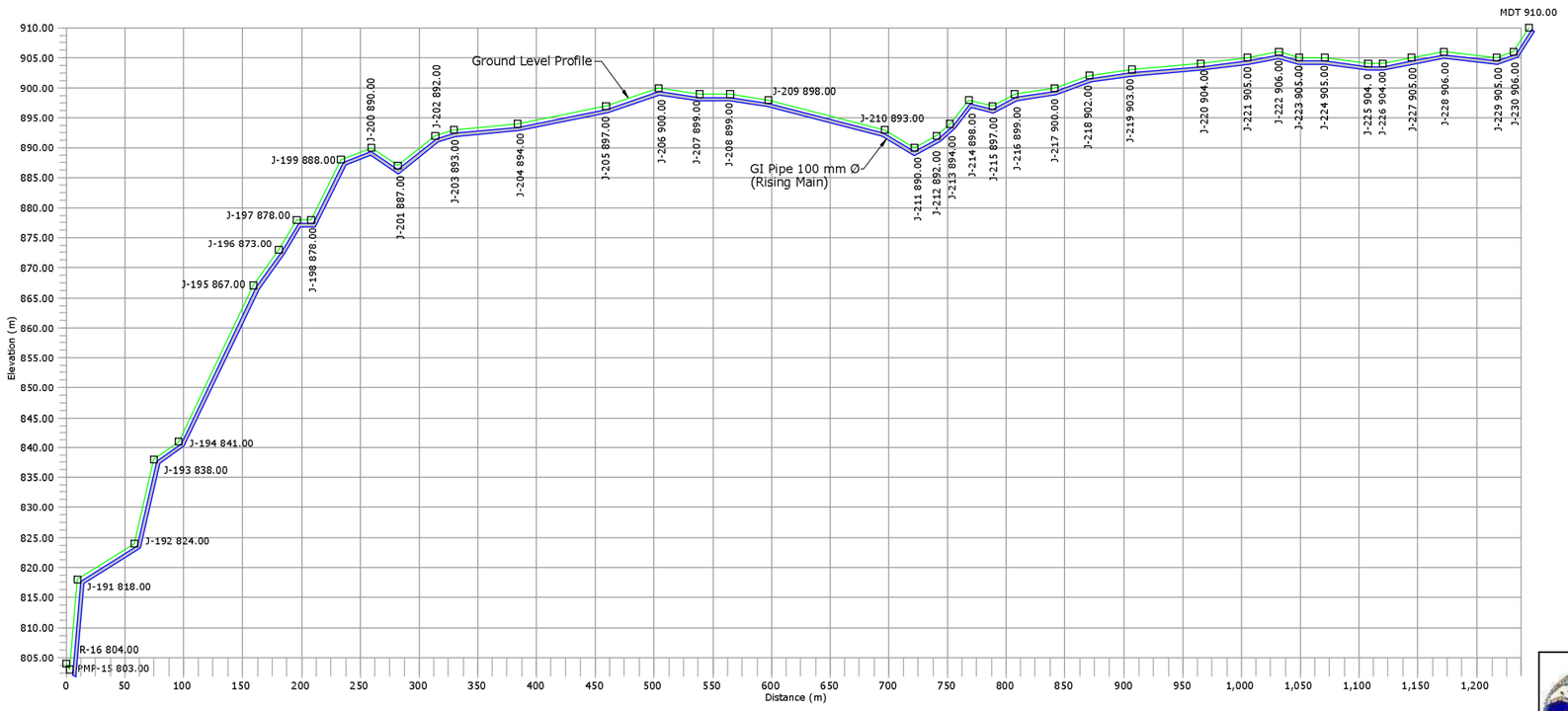

Legend :-

1. Ground Level
2. Rising Main
3. Junction
4. Air Valve
5. Scour Valve

Note:-

1. Air Valves are Considered to be provided at 500 m c/c and at High Points.
2. Scour Valves are Provided at 2000 m c/c Distance.
3. The Arrangement shown is Tentative. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

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FILE NAME: 12503A–CV–38357–Rev–P0

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE–CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L–SECTION – LIS THANDOL
BHAWARNA BLOCK, KANGRA DISTRICT
(SHEET 01 OF 03)

TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A–CV–3082–WS–38357	ISSUE P0
DC & DISC: DEL–CV		

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

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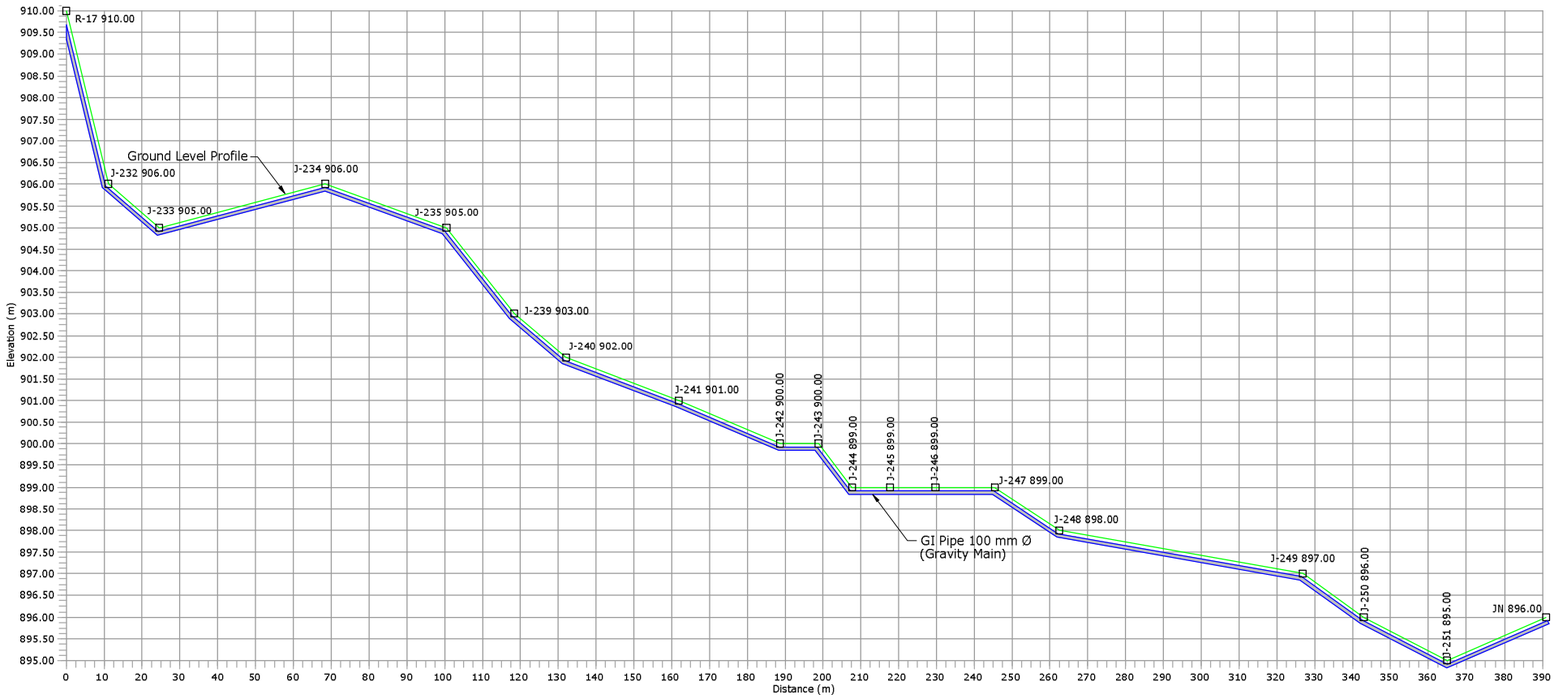

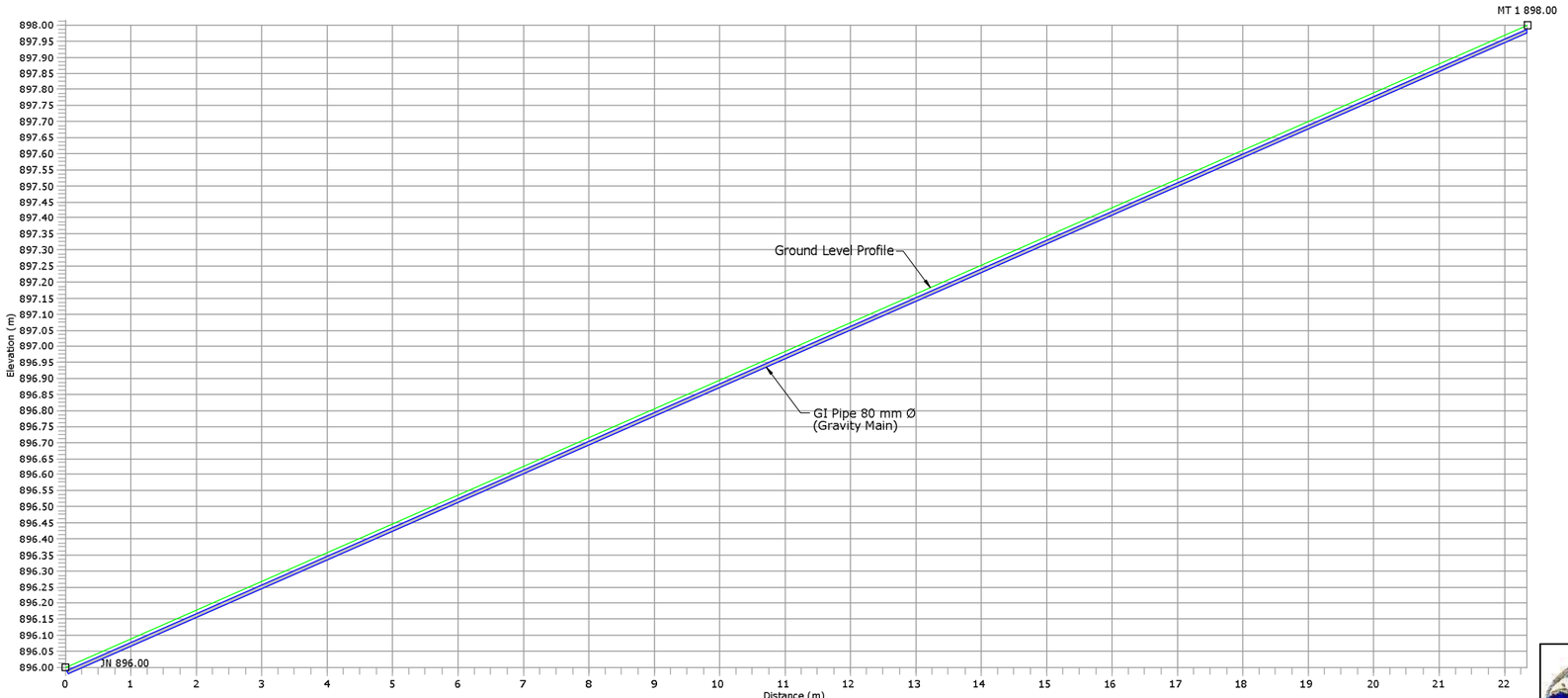

Legend :-

1. Ground Level
2. Rising Main
3. Junction
4. Air Valve
5. Scour Valve

Note:-

1. Air Valves are Considered to be provided at 500 m c/c and at High Points.
2. Scour Valves are Provided at 2000 m c/c Distance.
3. The Arrangement shown is Tentative. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE–CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L–SECTION – LIS THANDOL
BHAWARNA BLOCK, KANGRA DISTRICT
(SHEET 02 OF 03)

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FILE NAME: 12503A–CV–38358–Rev–P0

TATA CONSULTING ENGINEERS LIMITED

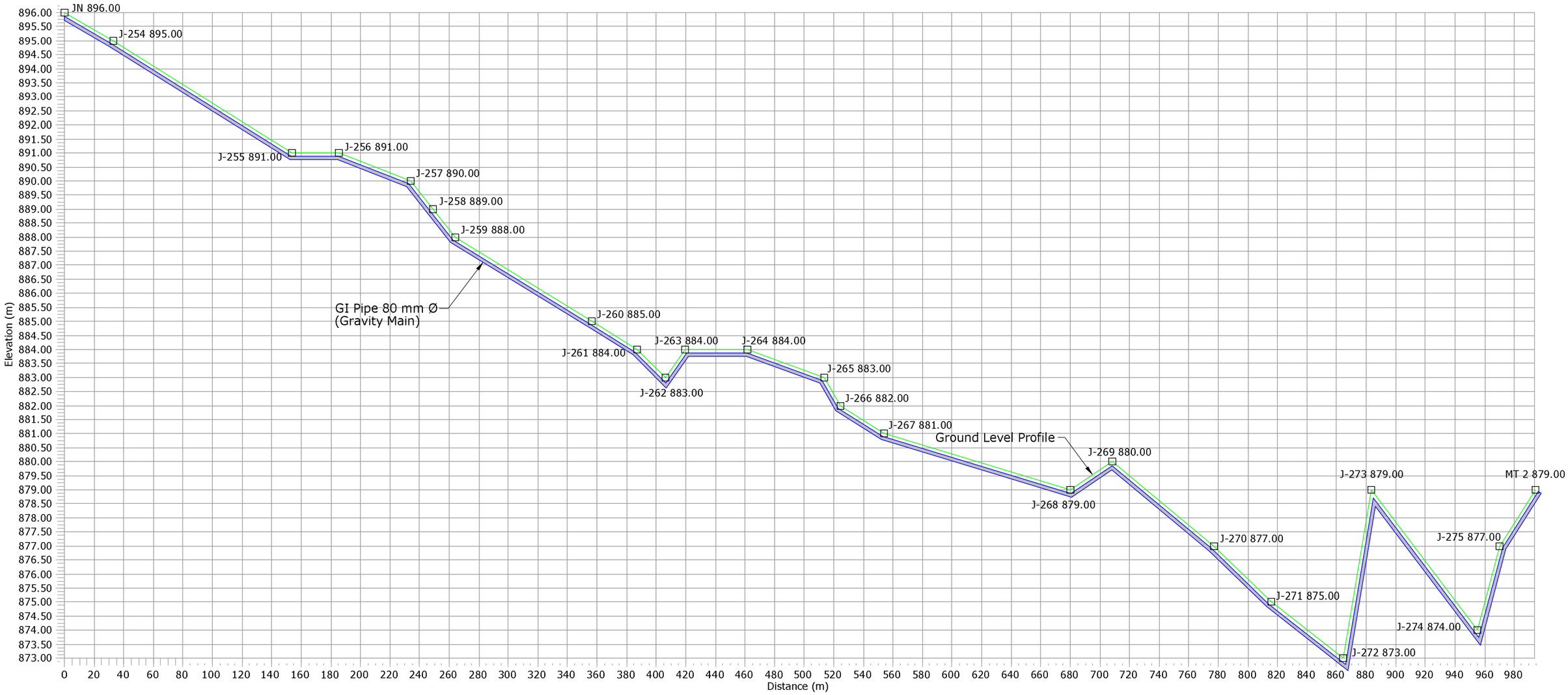
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A–CV–3082–WS–38358	ISSUE P0
DC & DISC: DEL–CV		

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1



Legend :-

1. Ground Level
2. Rising Main
3. Junction
4. Air Valve
5. Scour Valve

Note:-

1. Air Valves are Considered to be provided at 500 m c/c and at High Points.
2. Scour Valves are Provided at 2000 m c/c Distance.
3. The Arrangement shown is Tentative. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

	SIGN.													
	INITIALS													
	REVISIONS													
P0	SIGN.													
	INITIALS	BSN	SKAC	DVB							MK	DK	02-07-2022	
	REVISIONS													
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd-mm-yyyy)	
					CLEARED									

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FILE NAME: 12503A-CV-38359-Rev-P0

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE-CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L-SECTION - LIS THANDOL
BHAWARNA BLOCK, KANGRA DISTRICT
(SHEET 03 OF 03)

TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS
DC & DISC: DEL-CV

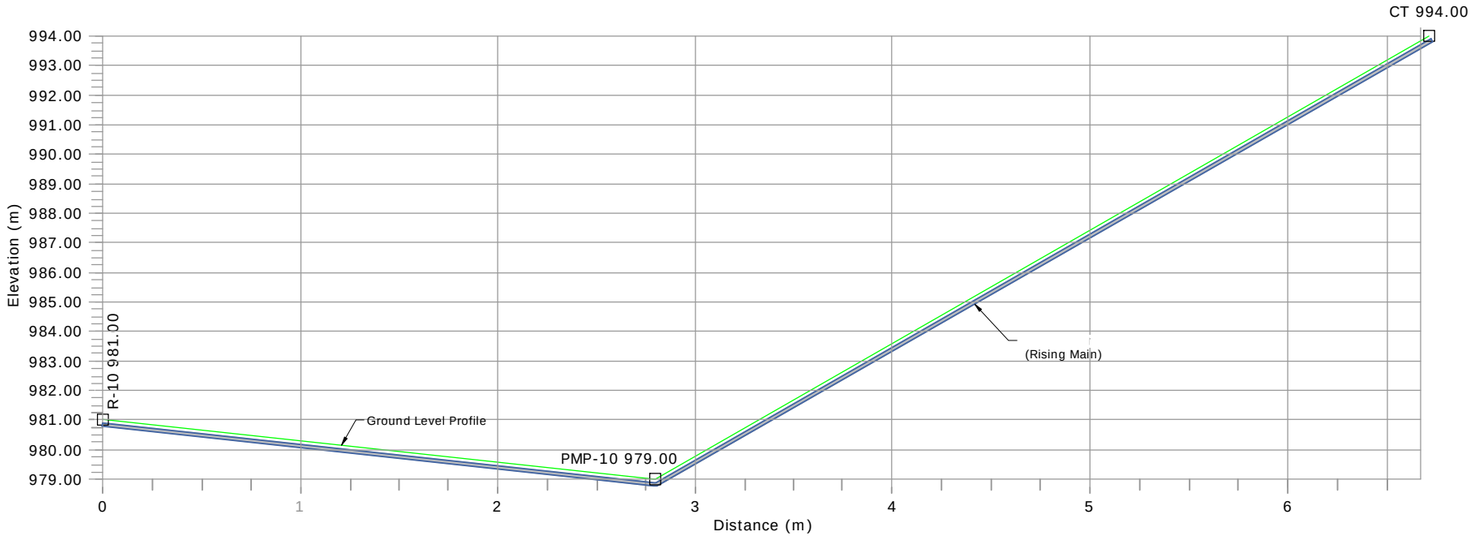
DWG NO. TCE.12503A-CV-3082-WS-38359

ISSUE P0

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1

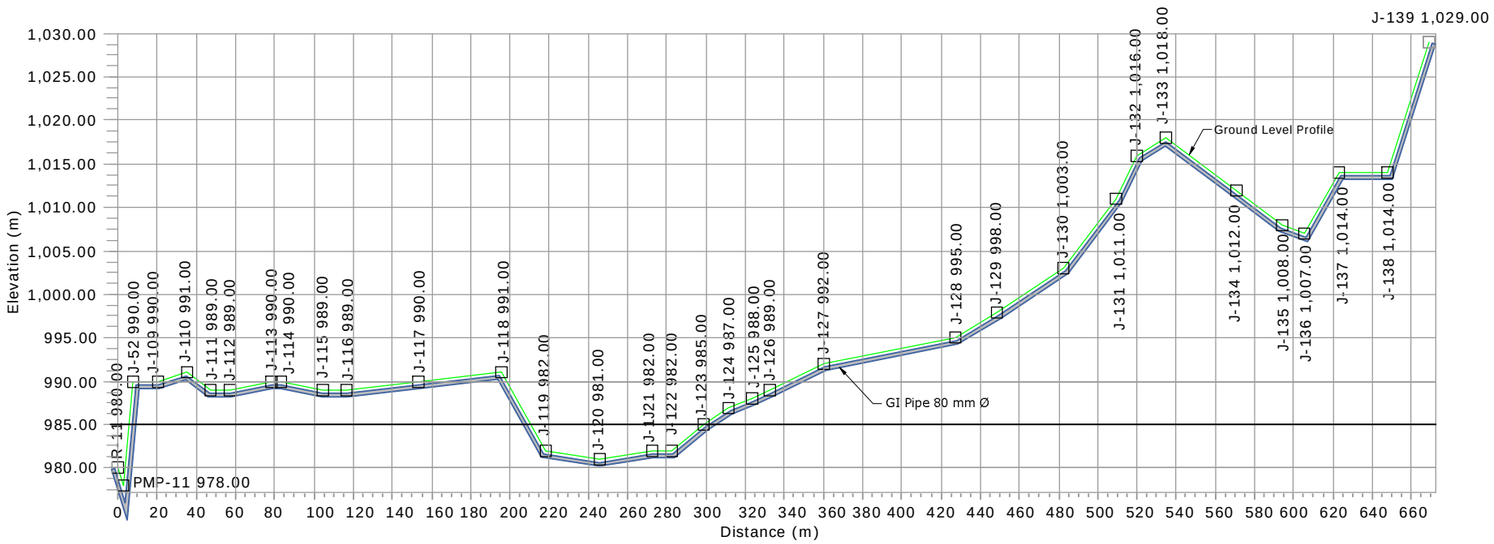


Legend :-

1. Ground Level
2. Rising Main
3. Junction
4. Air Valve
5. Scour Valve

Note:-

1. Air Valves are Considered to be provided at 500 m c/c and at High Points.
2. Scour Valves are Provided at 2000 m c/c Distance.
3. The Arrangement shown is Tentative. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.



P1	SIGN.												10-08-2022
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FILE NAME: 12503A-CV-38360-Rev-P1

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE-CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L-SECTION - LIS GHAR

BHAWARNA BLOCK, KANGRA DISTRICT

TATA CONSULTING ENGINEERS LIMITED

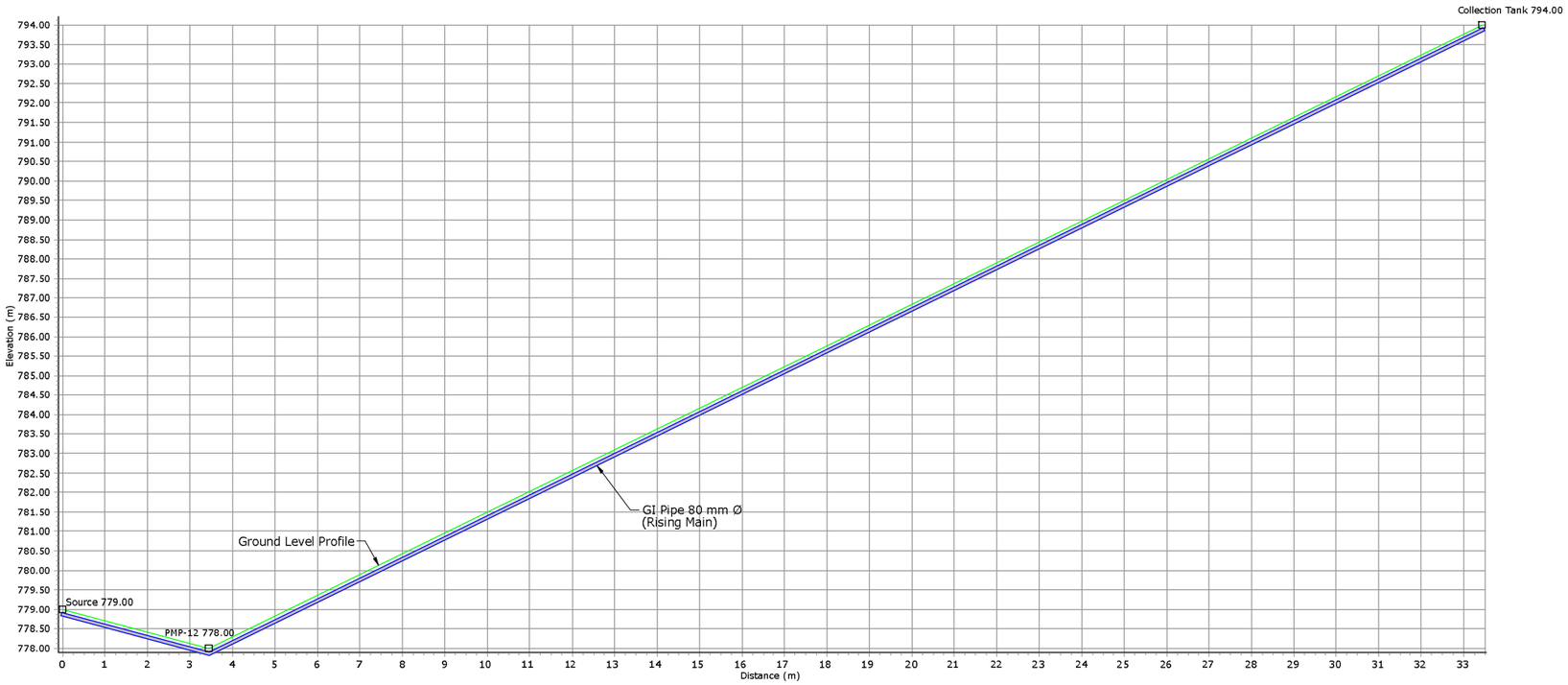
MUMBAI

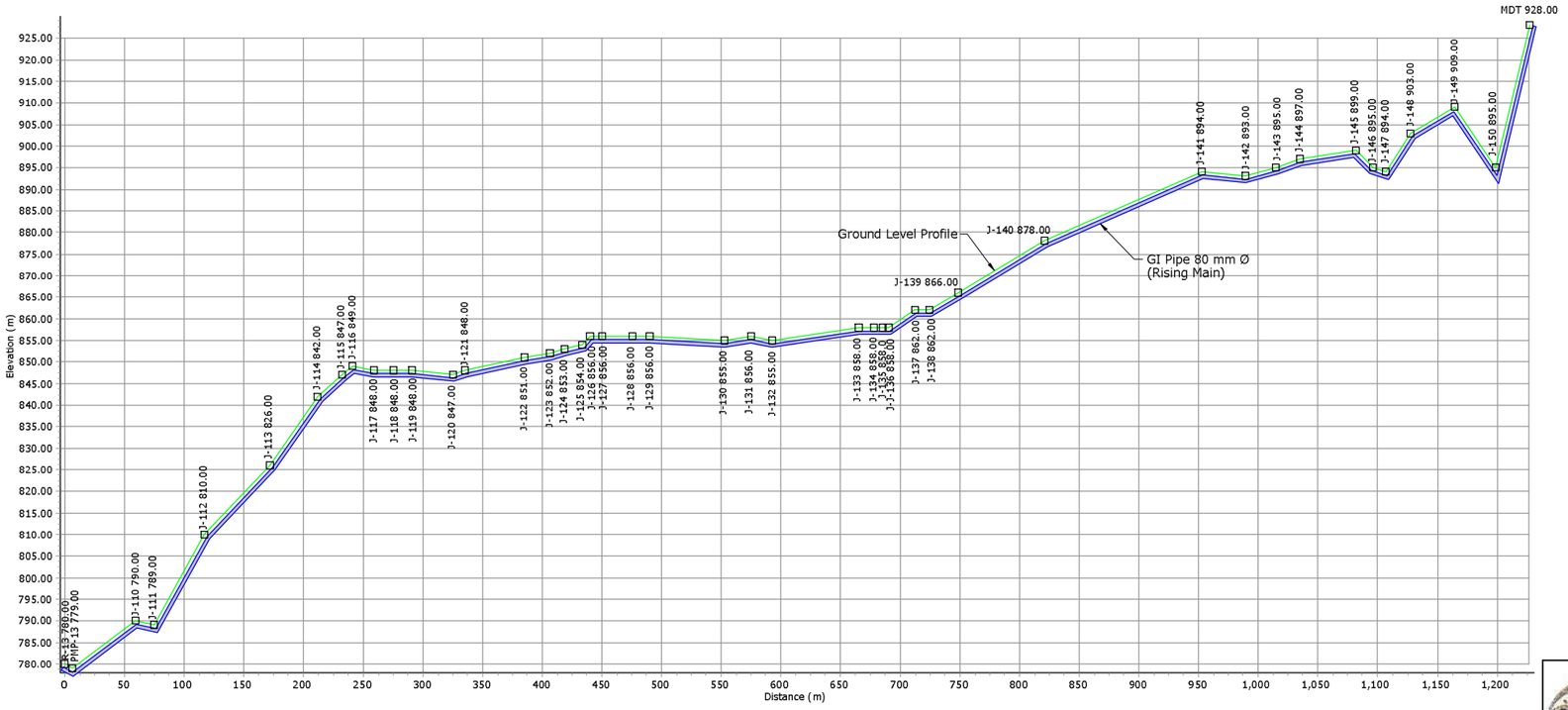
SCALE : NTS	DWG NO. TCE.12503A-CV-3082-WS-38360	ISSUE P1
DC & DISC: DEL-CV		

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1





Legend :-

1. Ground Level
2. Rising Main
3. Junction
4. Air Valve
5. Scour Valve

Note:-

1. Air Valves are Considered to be provided at 500 m c/c and at High Points.
2. Scour Valves are Provided at 2000 m c/c Distance.
3. The Arrangement shown is Tentative. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

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FILE NAME: 12503A-CV-38361-Rev-P0

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE-CS09)

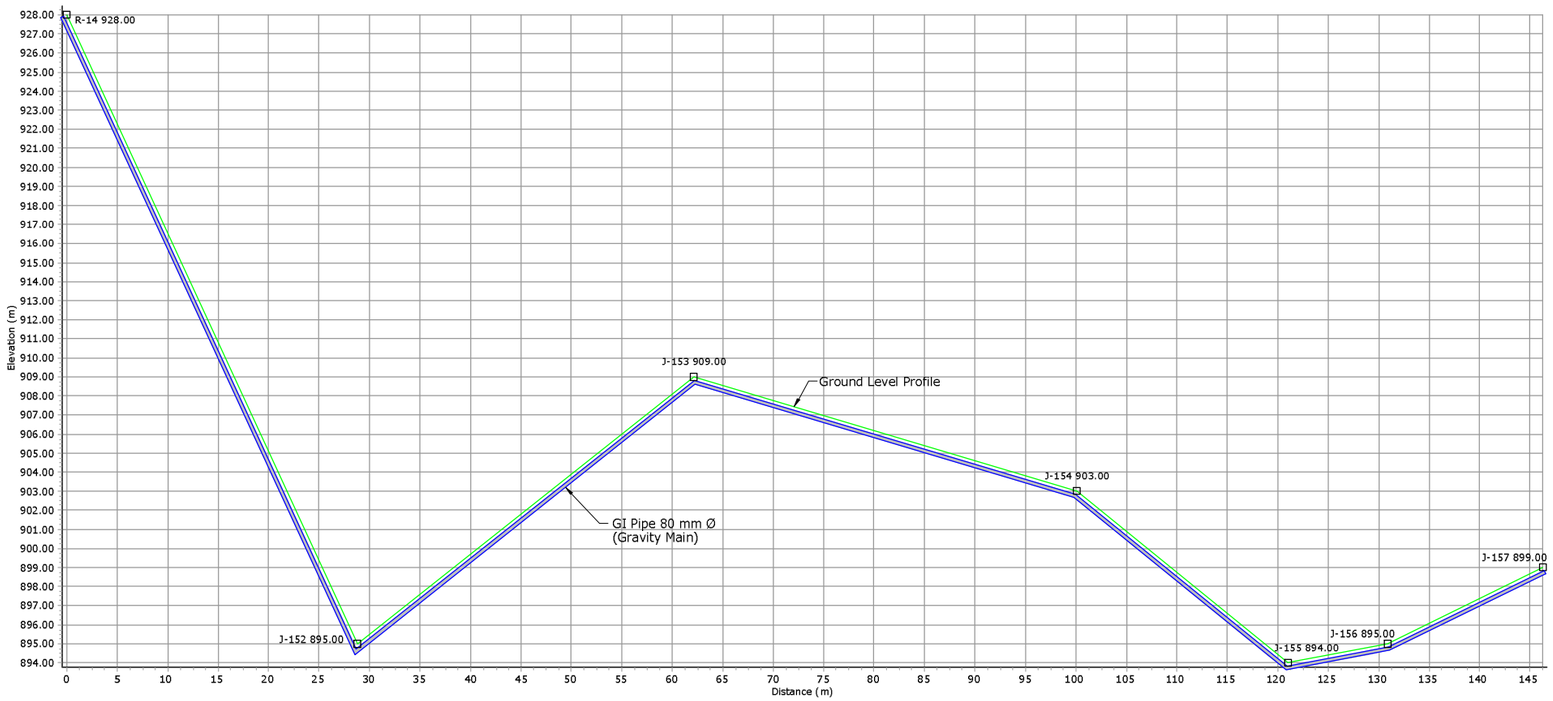
IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

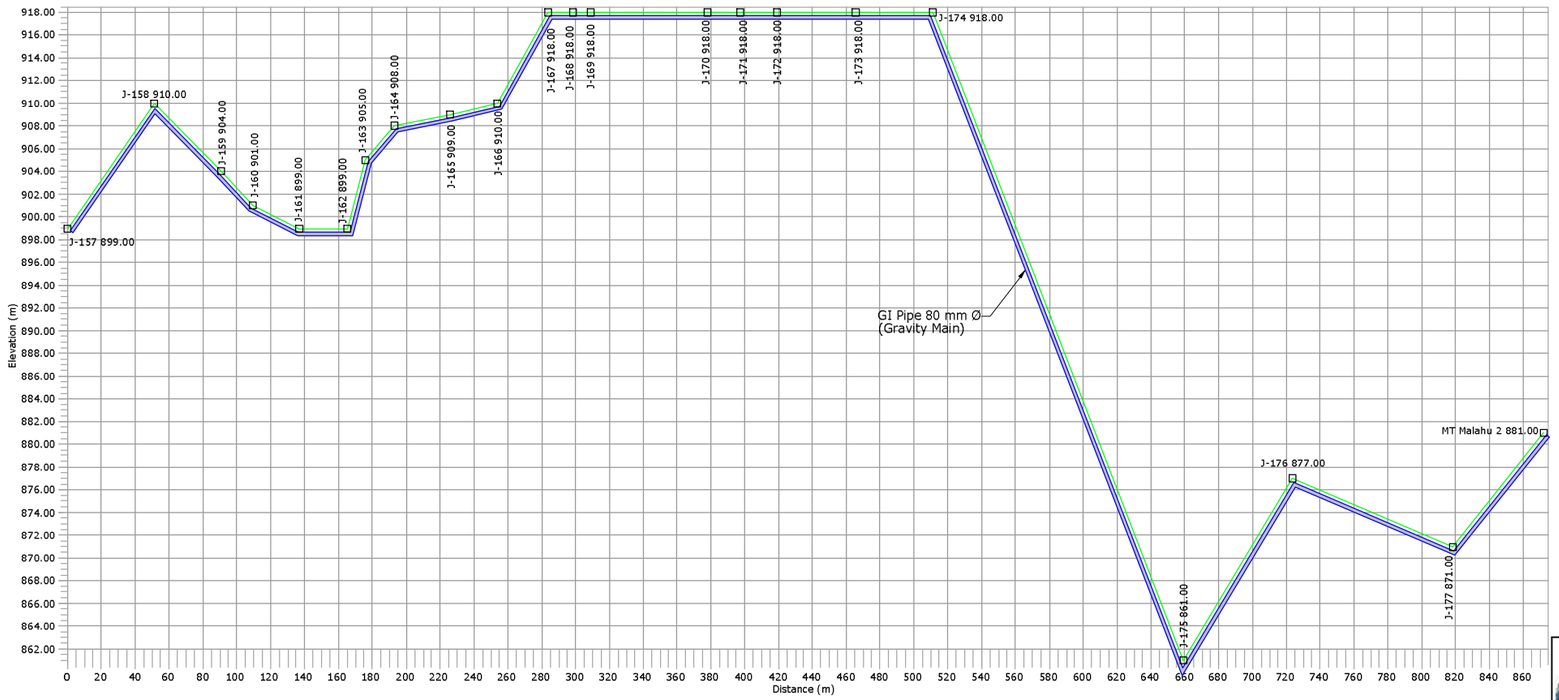
PROPOSED L-SECTION - LIS ON MOL KHAD (MALAHU 1 & 2 CLUSTER)
BHAWARNA BLOCK, KANGRA DISTRICT
(SHEET 01 OF 03)

TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A-CV-3082-WS-38361	ISSUE P0
DC & DISC: DEL-CV		

SIZE-A3





Legend :-

1. Ground Level
2. Rising Main
3. Junction
4. Air Valve
5. Scour Valve

Note:-

1. Air Valves are Considered to be provided at 500 m c/c and at High Points.
2. Scour Valves are Provided at 2000 m c/c Distance.
3. The Arrangement shown is Tentative. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

	SIGN.												
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	REVISIONS												
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FILE NAME: 12503A-CV-38362-Rev-P0

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE-CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L-SECTION - LIS ON MOL KHAD (MALAHU 1 & 2 CLUSTER)
BHAWARNA BLOCK, KANGRA DISTRICT
(SHEET 02 OF 03)

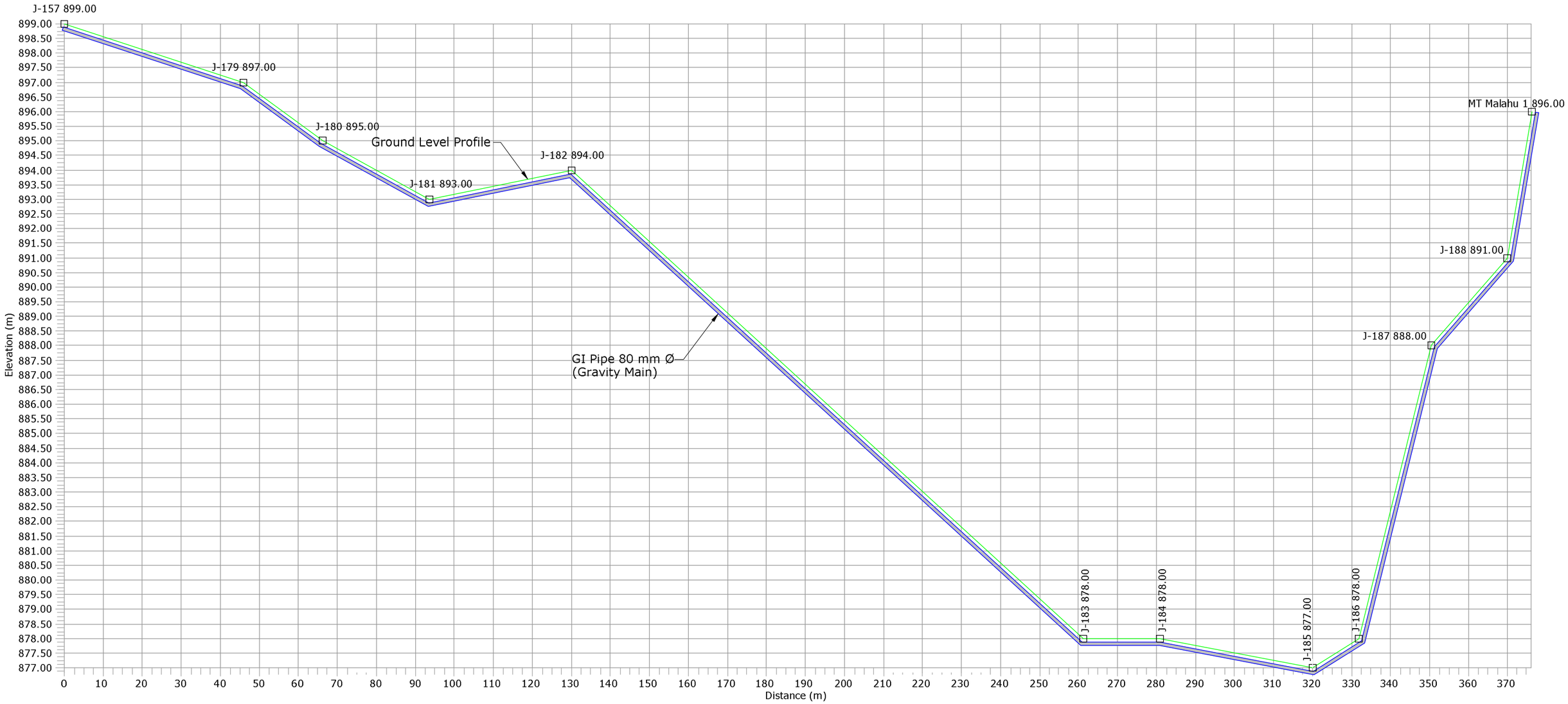
TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A-CV-3082-WS-38362		ISSUE P0
DC & DISC: DEL-CV			

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1



Legend :-

1. Ground Level
2. Rising Main
3. Junction
4. Air Valve
5. Scour Valve

Note:-

1. Air Valves are Considered to be provided at 500 m c/c and at High Points.
2. Scour Valves are Provided at 2000 m c/c Distance.
3. The Arrangement shown is Tentative. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

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	REVISIONS												
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FILE NAME: 12503A-CV-38363-Rev-P0

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE-CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L-SECTION - LIS ON MOL KHAD (MALAHU 1 & 2 CLUSTER)
BHAWARNA BLOCK, KANGRA DISTRICT
(SHEET 03 OF 03)

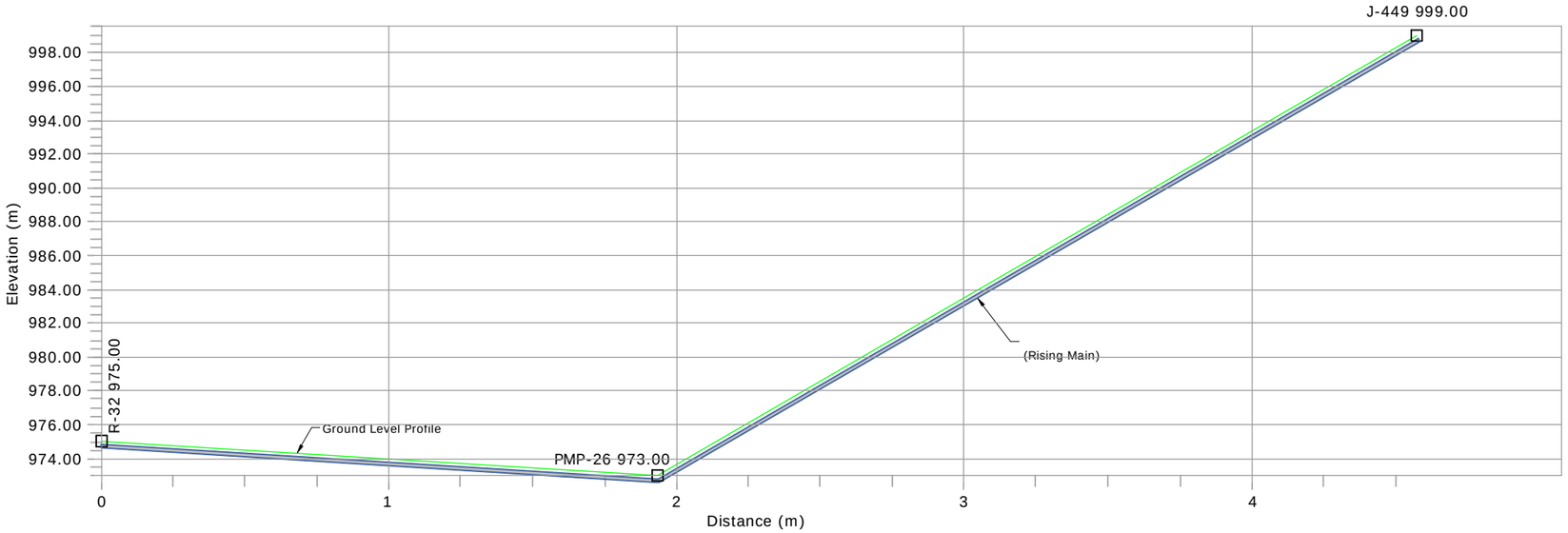
TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A-CV-3082-WS-38363	ISSUE P0
DC & DISC: DEL-CV		

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1

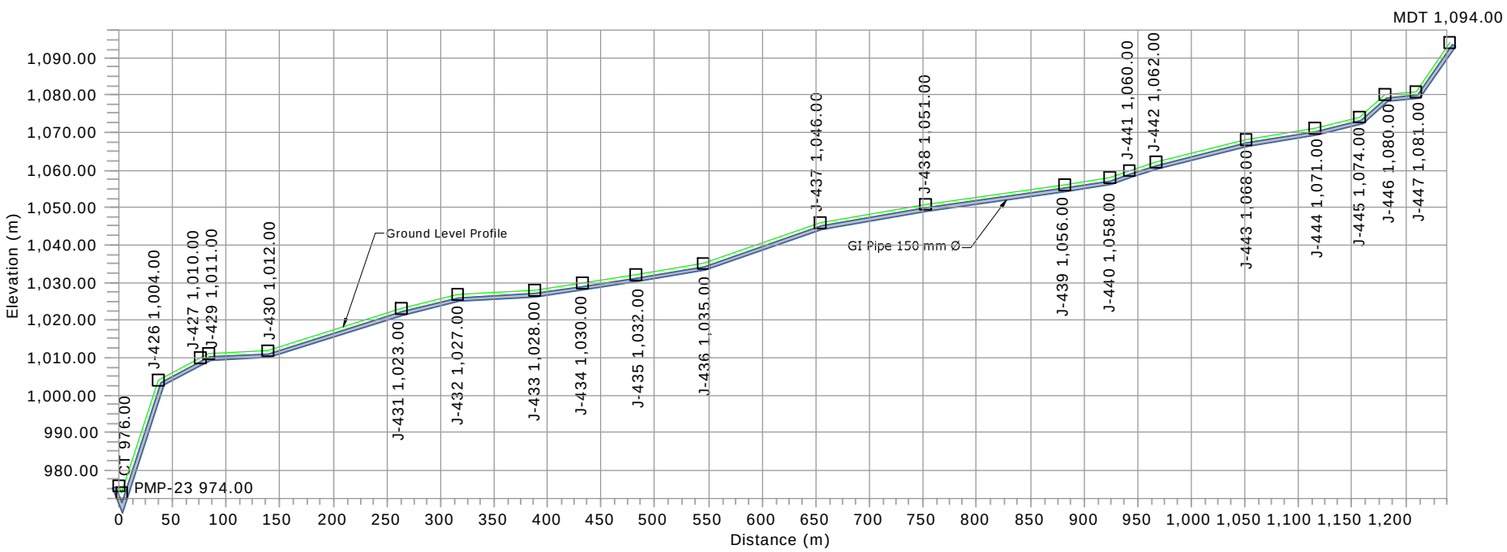


Legend :-

1. Ground Level
2. Rising Main
3. Junction
4. Air Valve
5. Scour Valve

Note:-

1. Air Valves are Considered to be provided at 500 m c/c and at High Points.
2. Scour Valves are Provided at 2000 m c/c Distance.
3. The Arrangement shown is Tentative. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.



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P0	SIGN.													02-07-2022
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	REVISIONS													
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd-mm-yyyy)	
					CLEARED									

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SIGN. OF CLIENT:–

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FILE NAME: 12503A–CV–38364–Rev–P1

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE–CS09)

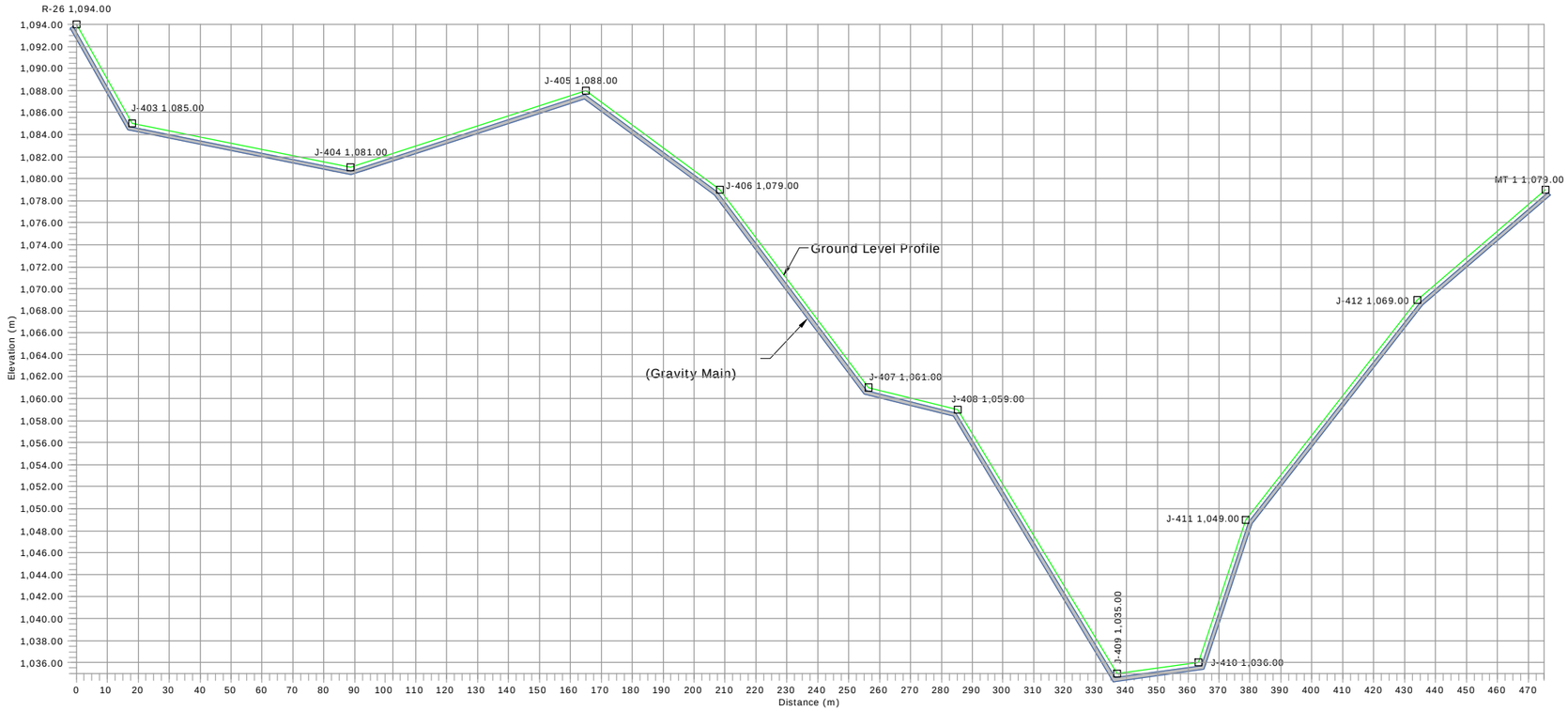
IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

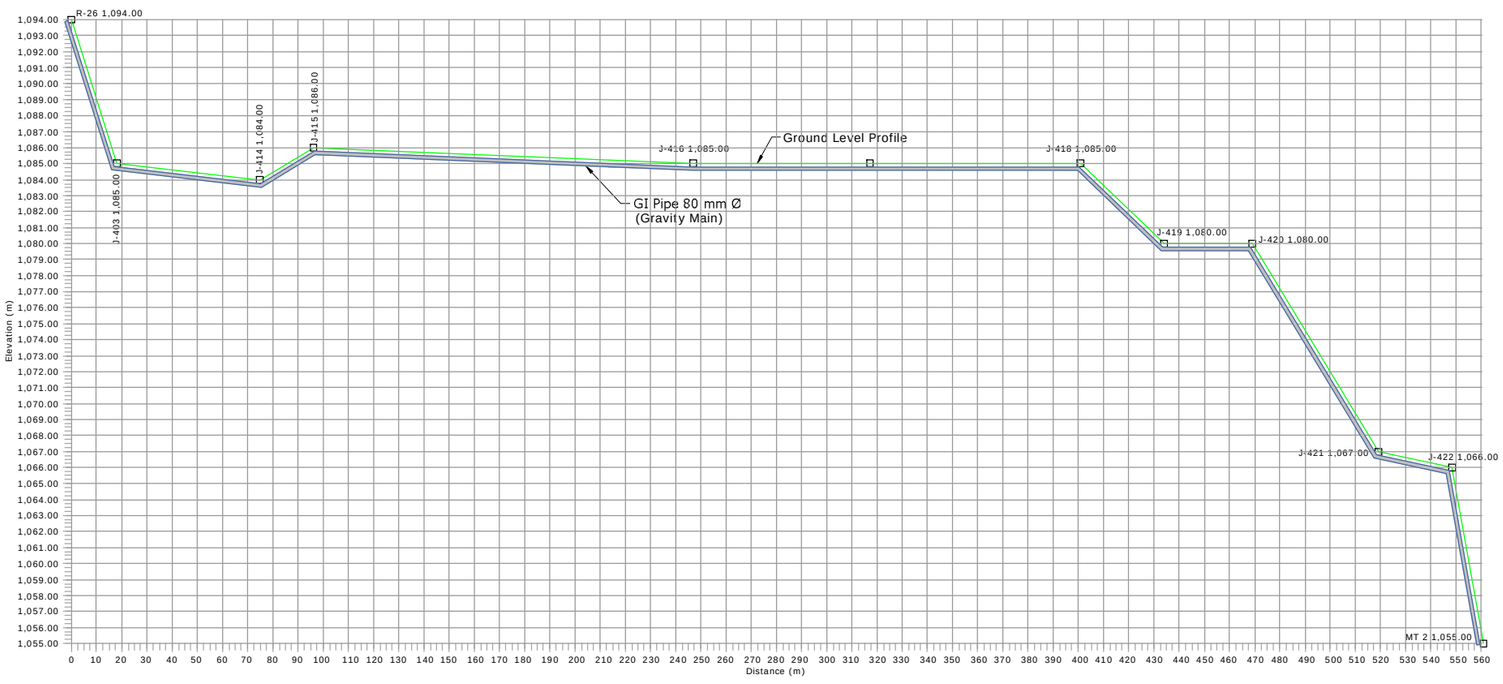
PROPOSED L–SECTION– LIS SIDHPUR
BHAWARNA BLOCK, KANGRA DISTRICT
(SHEET 01 OF 03)

TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A–CV–3082–WS–38364	ISSUE P1
DC & DISC: DEL–CV		

SIZE-A3





Legend :-

1. Ground Level
2. Rising Main
3. Junction
4. Air Valve
5. Scour Valve

Note:-

1. Air Valves are Considered to be provided at 500 m c/c and at High Points.
2. Scour Valves are Provided at 2000 m c/c Distance.
3. The Arrangement shown is Tentative. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

P1	SIGN.													10-08-2022
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	REVISIONS													
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FILE NAME: 12503A-CV-38365-Rev-P1

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE-CS09)

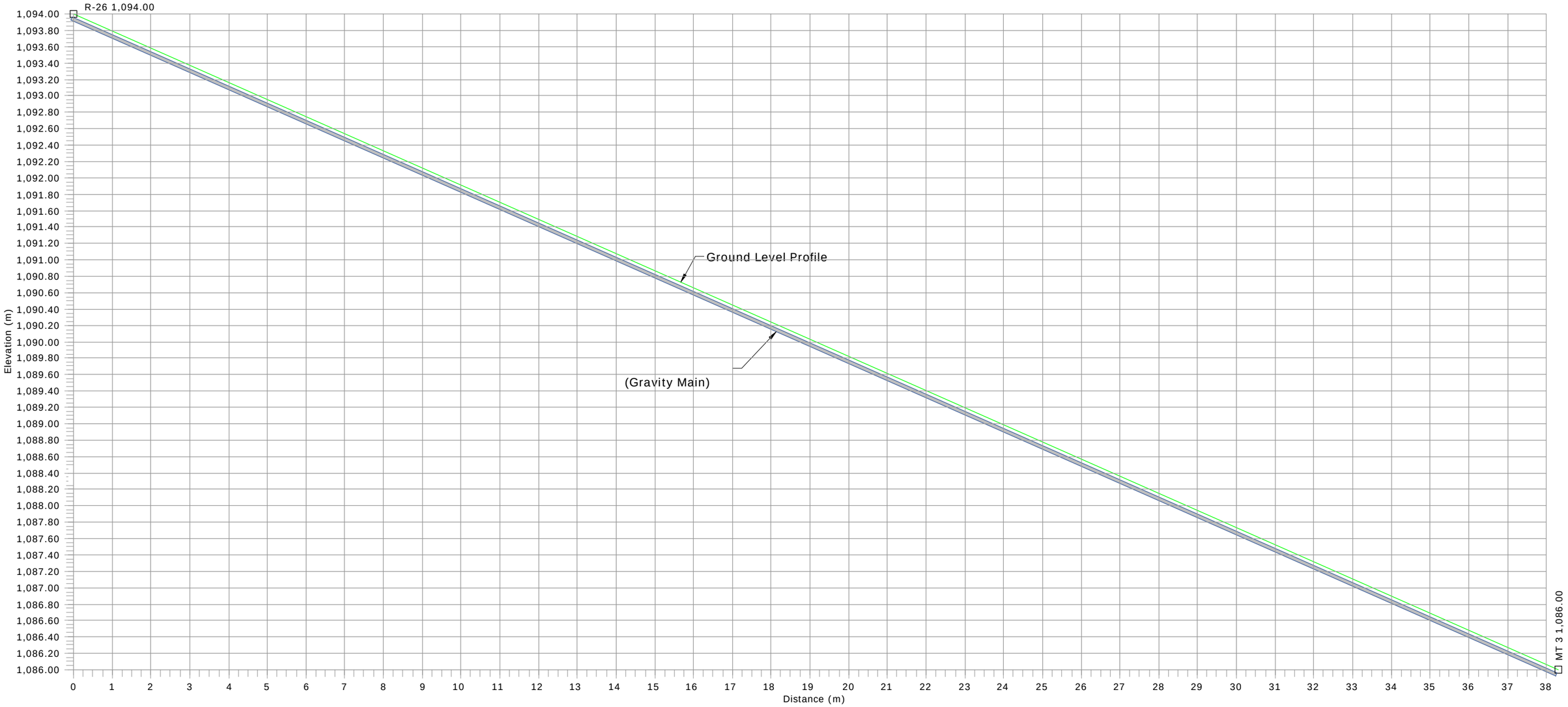
IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L-SECTION- LIS SIDHPUR
BHAWARNA BLOCK, KANGRA DISTRICT
(SHEET 02 OF 03)

TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A-CV-3082-WS-38365	ISSUE P1
DC & DISC: DEL-CV		

SIZE-A3



Legend :-

1. Ground Level
2. Rising Main
3. Junction
4. Air Valve
5. Scour Valve

Note:-

1. Air Valves are Considered to be provided at 500 m c/c and at High Points.
2. Scour Valves are Provided at 2000 m c/c Distance.
3. The Arrangement shown is Tentative. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

P1	SIGN.													10-08-2022
	INITIALS	SM	SKAC	DVB							MK	DK		
	REVISIONS													
P0	SIGN.													02-07-2022
	INITIALS	BSN	SKAC	DVB							MK	DK		
	REVISIONS													
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd-mm-yyyy)	
					CLEARED									

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FILE NAME: 12503A-CV-38366-Rev-P1

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE-CS09)

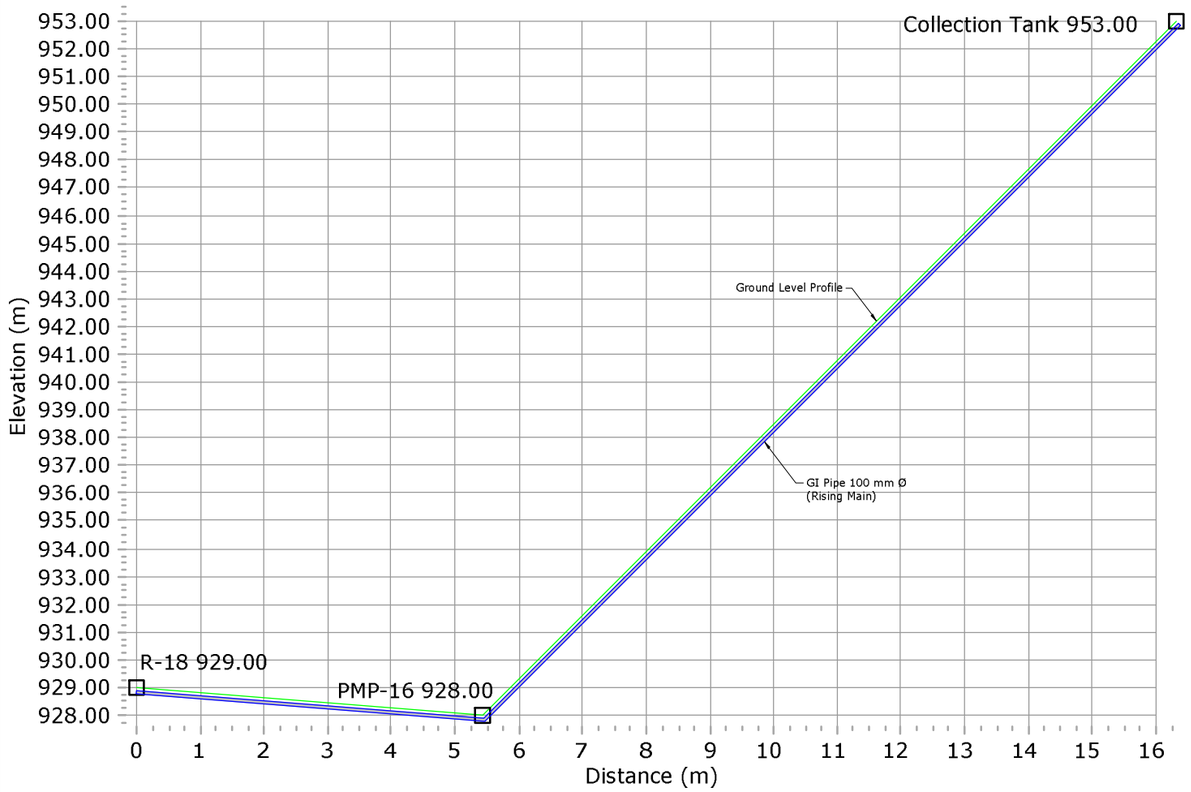
IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

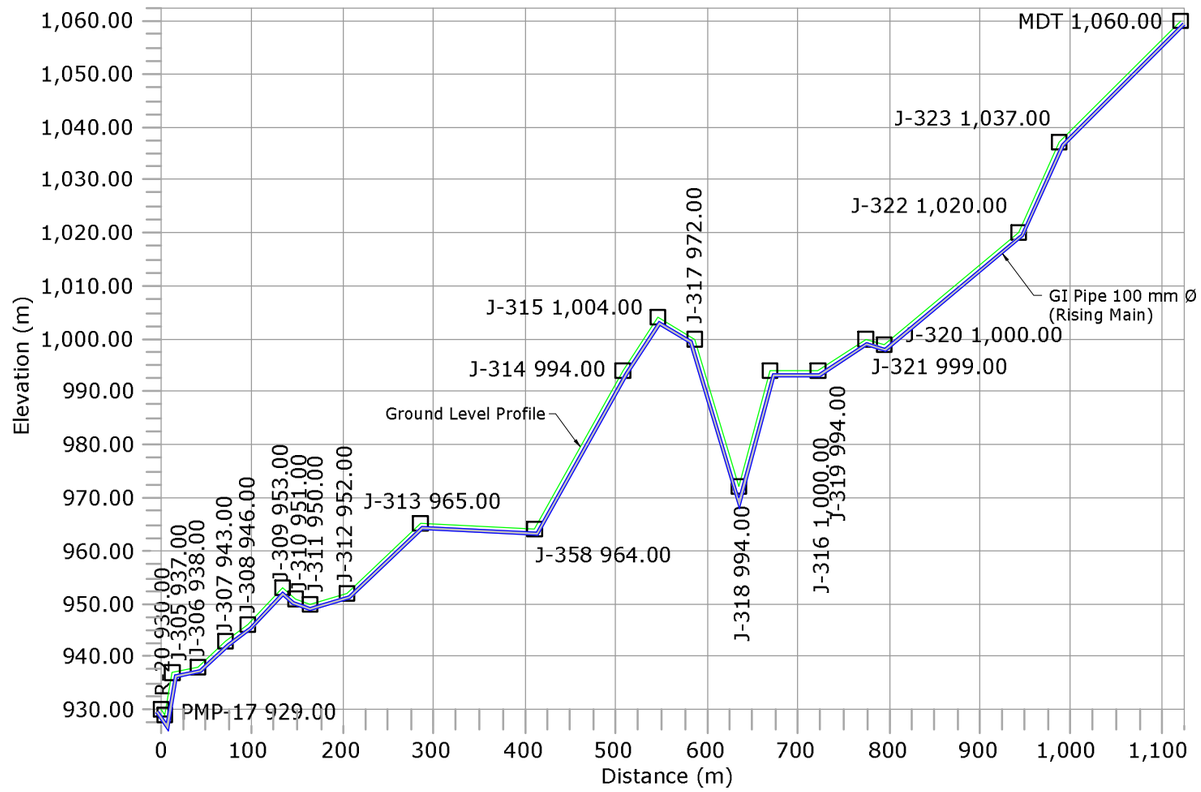
PROPOSED L-SECTION- LIS SIDHPUR
BHAWARNA BLOCK, KANGRA DISTRICT
(SHEET 03 OF 03)

TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A-CV-3082-WS-38366	ISSUE P1
DC & DISC: DEL-CV		

SIZE-A3





Legend :-

1. Ground Level
2. Rising Main
3. Junction
4. Air Valve
5. Scour Valve

Note:-

1. Air Valves are Considered to be provided at 500 m c/c and at High Points.
2. Scour Valves are Provided at 2000 m c/c Distance.
3. The Arrangement shown is Tentative. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

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	REVISIONS												
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	INITIALS	BSN	SKAC	DVB							MK	DK	02-07-2022
	REVISIONS												
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd-mm-yyyy)
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FILE NAME: 12503A–CV–38367–Rev–P0

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE–CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L–SECTION LIS ON TAHL KHAD (LUDHRAN 1 & 2 AND CHARTKHOLA)
BHAWARNA BLOCK, KANGRA DISTRICT
(SHEET 01 OF 03)

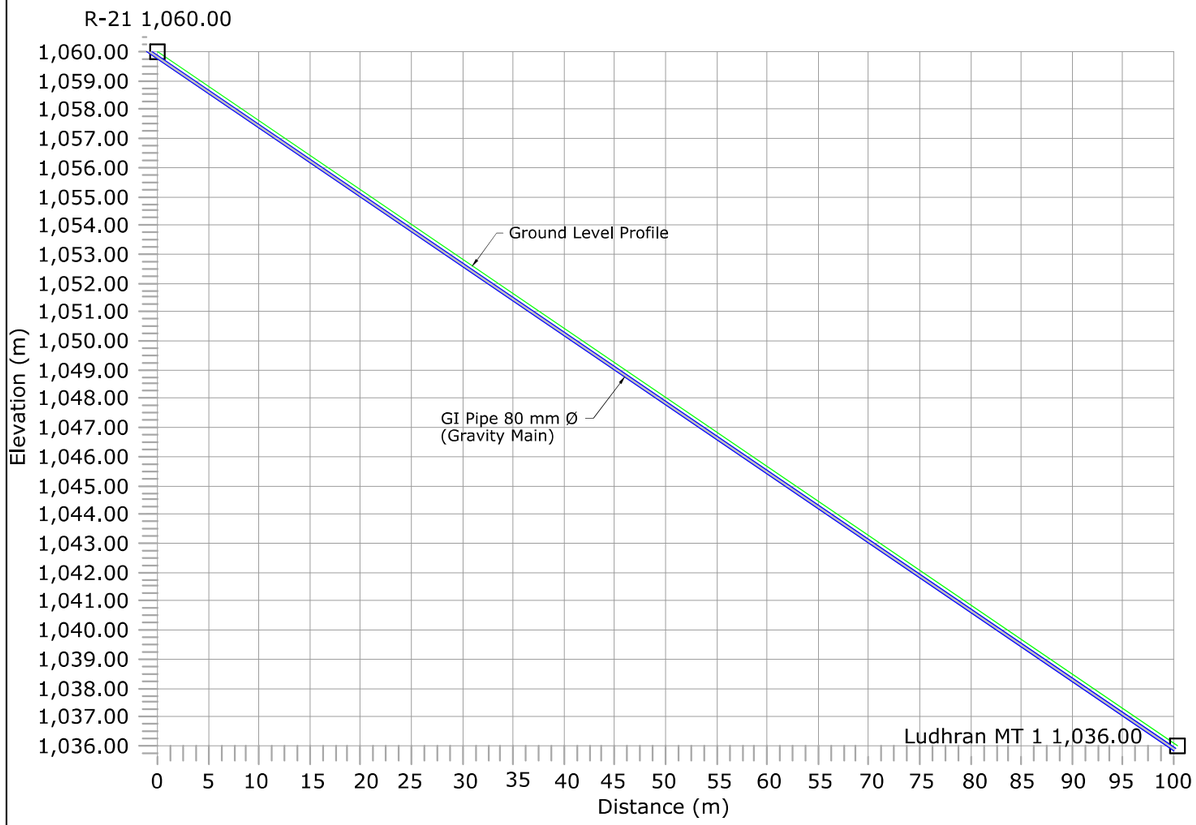
TATA CONSULTING ENGINEERS LIMITED
MUMBAI

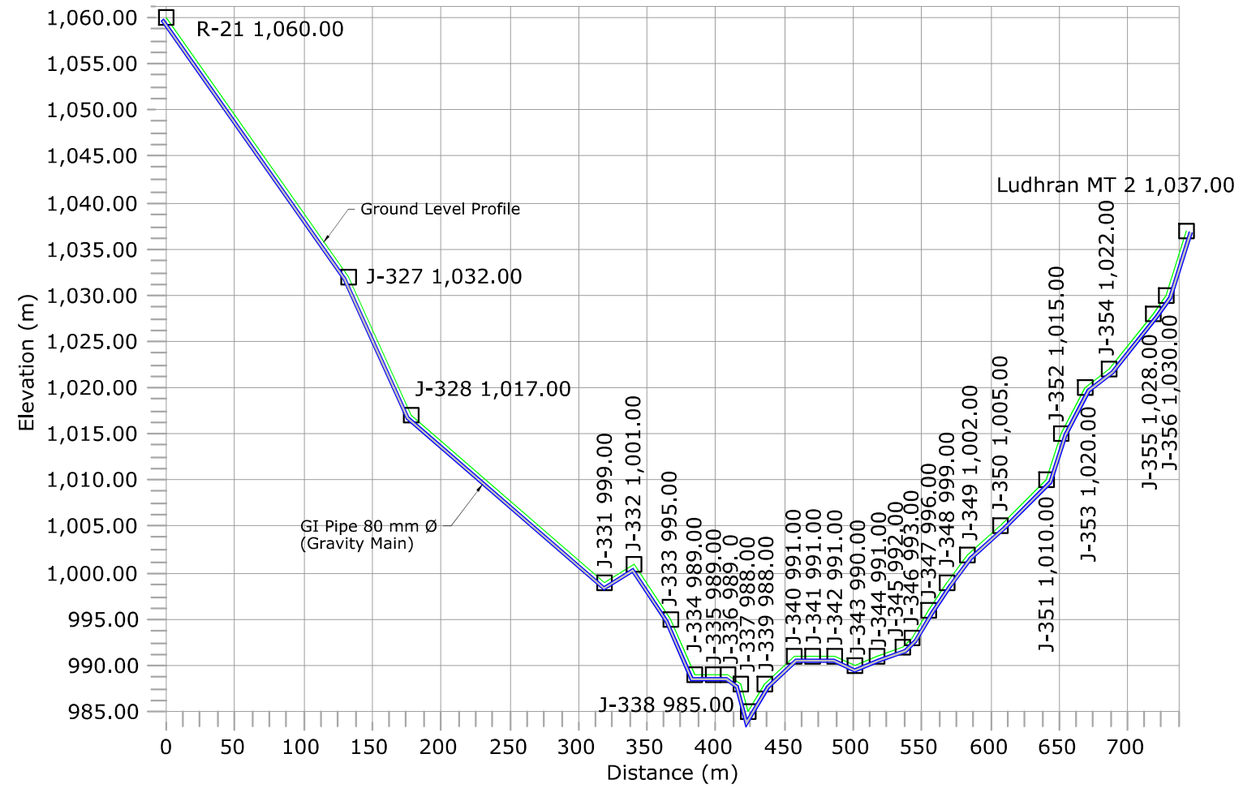
SCALE : NTS	DWG NO. TCE.12503A–CV–3082–WS–38367	ISSUE P0
DC & DISC: DEL–CV		

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1





Legend :-

1. Ground Level
2. Rising Main
3. Junction
4. Air Valve
5. Scour Valve

Note:-

1. Air Valves are Considered to be provided at 500 m c/c and at High Points.
2. Scour Valves are Provided at 2000 m c/c Distance.
3. The Arrangement shown is Tentative. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

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	INITIALS	BSN	SKAC	DVB							MK	DK	
	REVISIONS												
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd-mm-yyyy)
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FILE NAME: 12503A-CV-38368-Rev-P0

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE-CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L-SECTION LIS ON TAHL KHAD (LUDHRAN 1 & 2 AND CHARTKHOLA)
BHAWARNA BLOCK, KANGRA DISTRICT
(SHEET 02 OF 03)

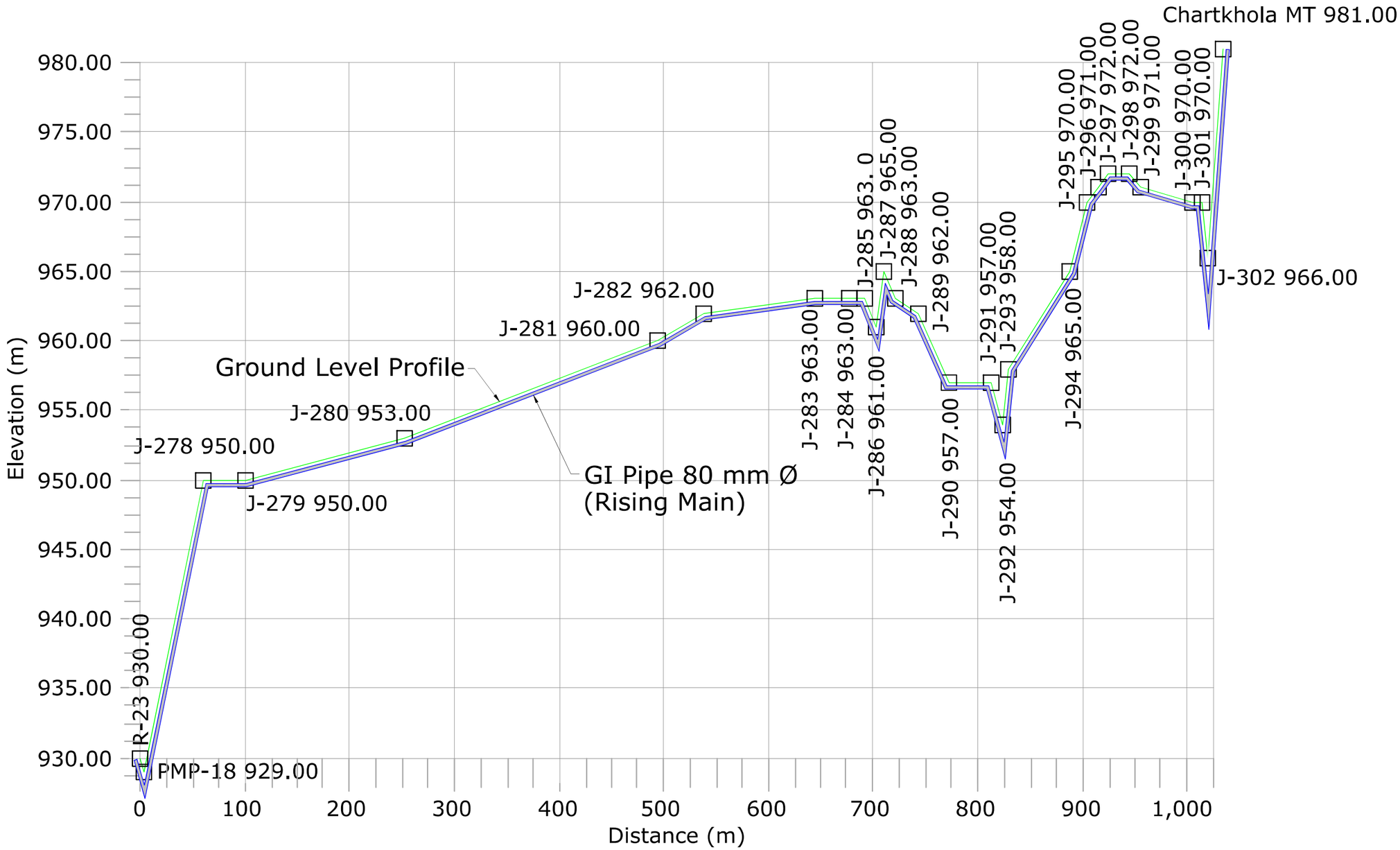
TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A-CV-3082-WS-38368	ISSUE P0
DC & DISC: DEL-CV		

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1



Legend :-

1. Ground Level
2. Rising Main
3. Junction
4. Air Valve
5. Scour Valve

Note:-

1. Air Valves are Considered to be provided at 500 m c/c and at High Points.
2. Scour Valves are Provided at 2000 m c/c Distance.
3. The Arrangement shown is Tentative. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

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FILE NAME: 12503A–CV–38369–Rev–P0

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE–CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L–SECTION LIS ON TAHL KHAD (LUDHRAN 1 & 2 AND CHARTKHOLA)
BHAWARNA BLOCK, KANGRA DISTRICT
(SHEET 03 OF 03)

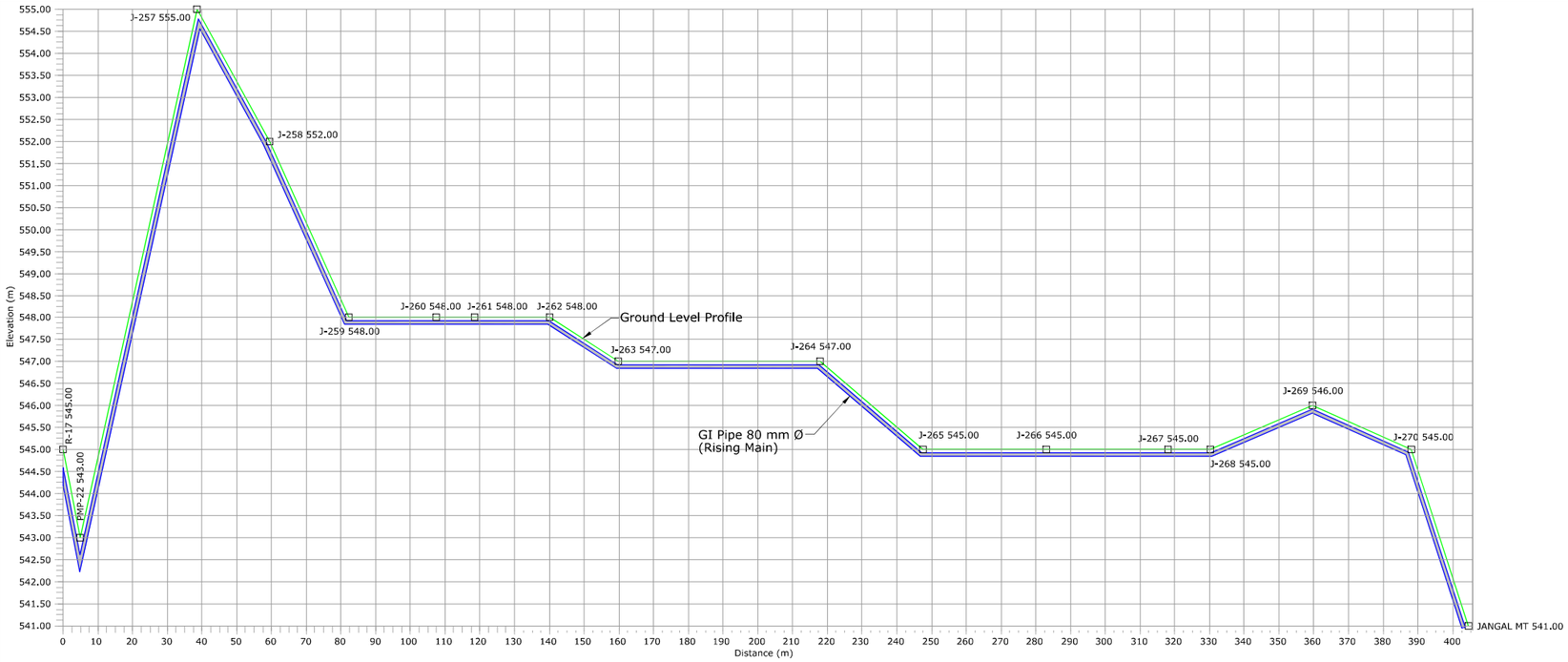
TATA CONSULTING ENGINEERS LIMITED
MUMBAI

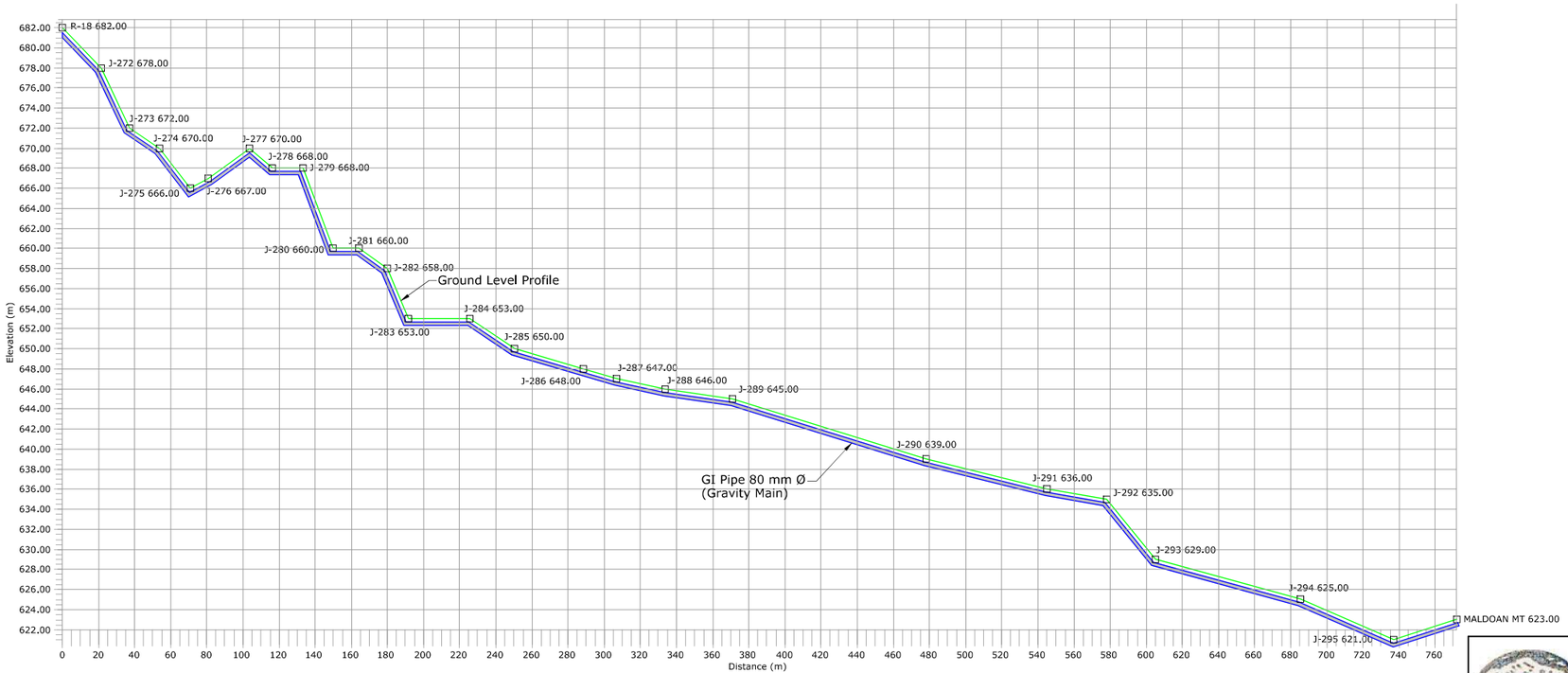
SCALE : NTS	DWG NO. TCE.12503A–CV–3082–WS–38369	ISSUE P0
DC & DISC: DEL–CV		

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1





Legend :-

1. Ground Level
2. Rising Main
3. Junction
4. Air Valve
5. Scour Valve

Note:-

1. Air Valves are Considered to be provided at 500 m c/c and at High Points.
2. Scour Valves are Provided at 2000 m c/c Distance.
3. The Arrangement Shown is Tentative. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

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FILE NAME: 12503A-CV-38370-Rev-P0

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE-CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L-SECTION LIS ALAMPUR
MALDOAN & JANGAL CLUSTER
LAMBAGOAN BLOCK, KANGRA DISTRICT

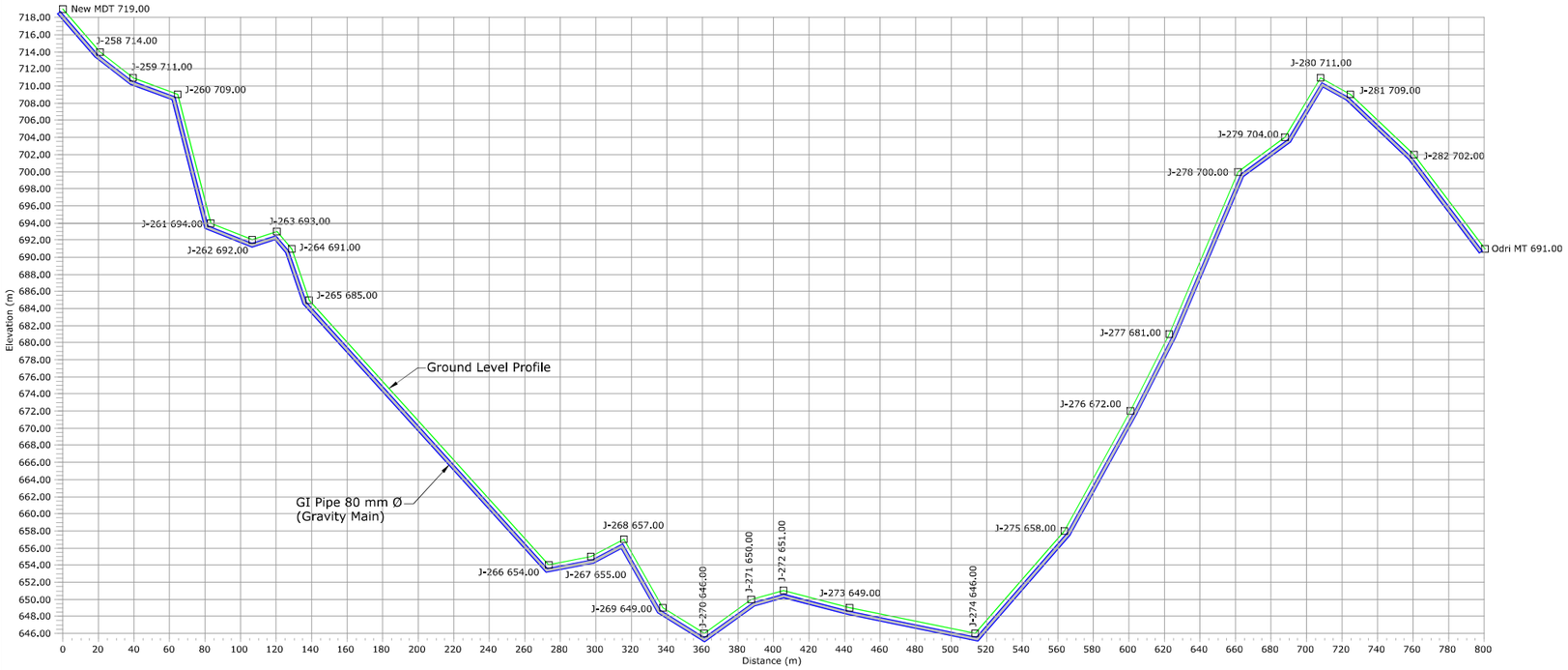
TATA CONSULTING ENGINEERS LIMITED
MUMBAI

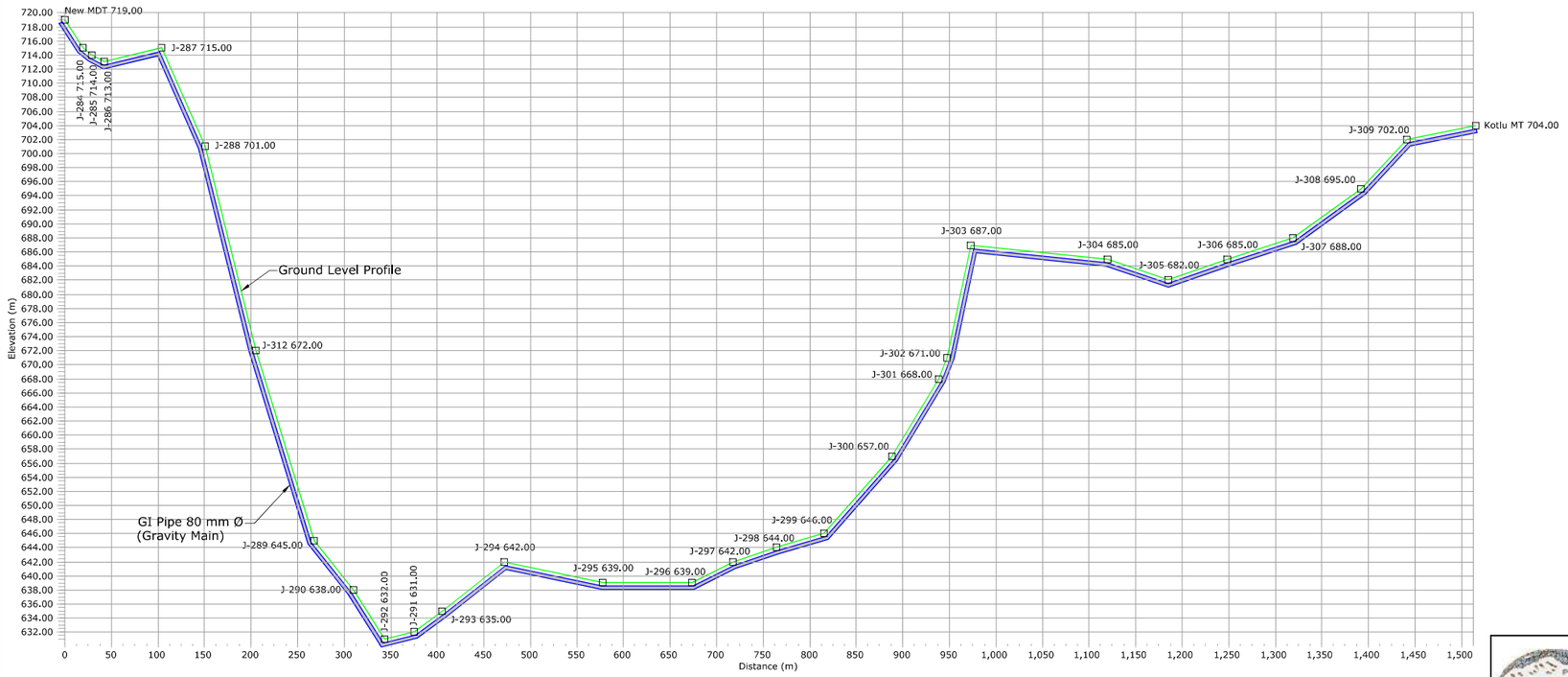
SCALE : NTS	DWG NO. TCE.12503A-CV-3082-WS-38370	ISSUE P0
DC & DISC: DEL-CV		

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1





Legend :-

1. Ground Level
2. Rising Main
3. Junction
4. Air Valve
5. Scour Valve

Note:-

1. Air Valves are Considered to be provided at 500 m c/c and at High Points.
2. Scour Valves are Provided at 2000 m c/c Distance.
3. The Arrangement Shown is Tentative. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

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FILE NAME: 12503A–CV–38371–Rev–P0

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE–CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L–SECTION LIS BANDHUI EXTENSION
ODRI AND KOTLU CLUSTER
LAMBAGOAN BLOCK, KANGRA DISTRICT

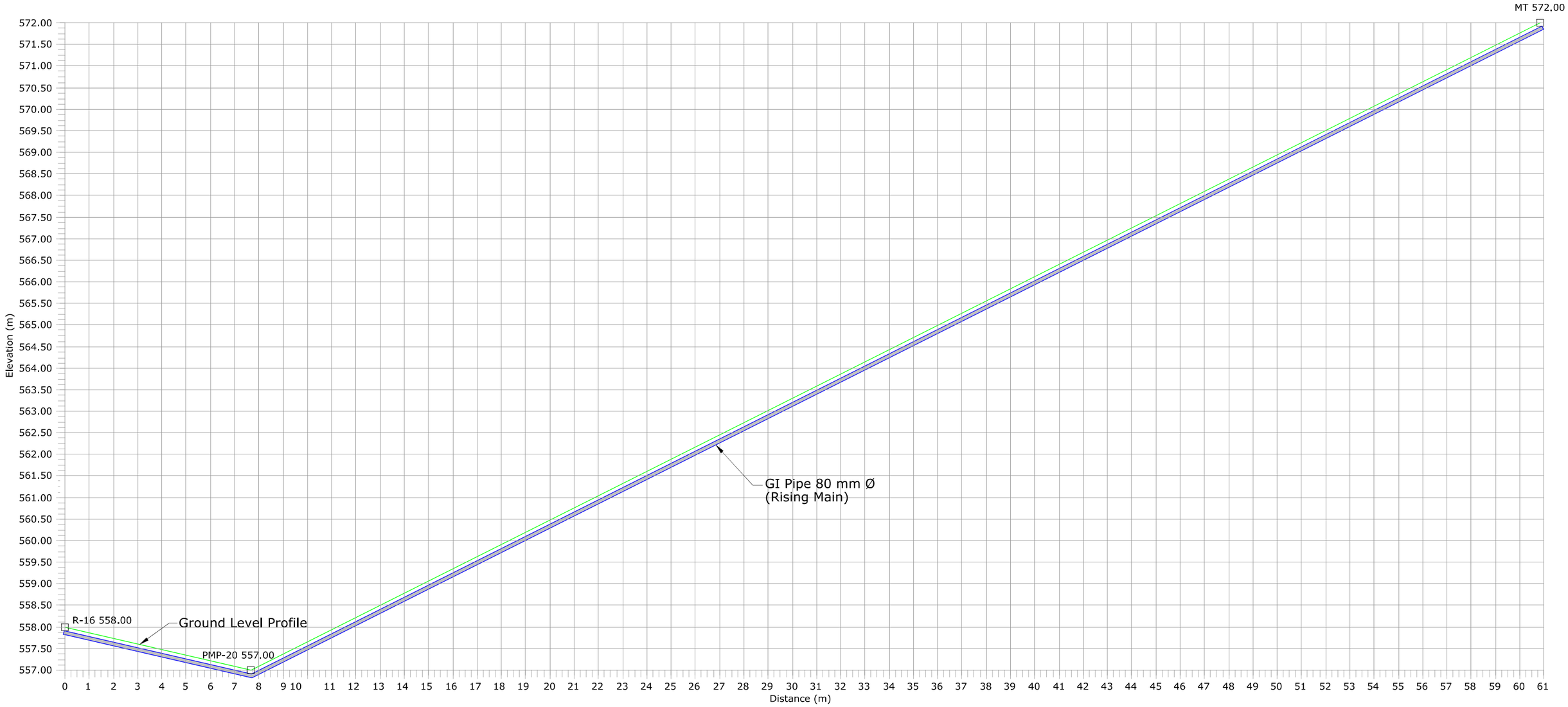
TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A–CV–3082–WS–38371	ISSUE P0
DC & DISC: DEL–CV		

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1



Legend :-

1. Ground Level
2. Rising Main
3. Junction
4. Air Valve
5. Scour Valve

Note:-

1. Air Valves are Considered to be provided at 500 m c/c and at High Points.
2. Scour Valves are Provided at 2000 m c/c Distance.
3. The Arrangement Shown is Tentative. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

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FILE NAME: 12503A-CV-38372-Rev-P0

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE-CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L-SECTION- LIS KATHLA

LAMBAGOAN BLOCK, KANGRA DISTRICT

TATA CONSULTING ENGINEERS LIMITED

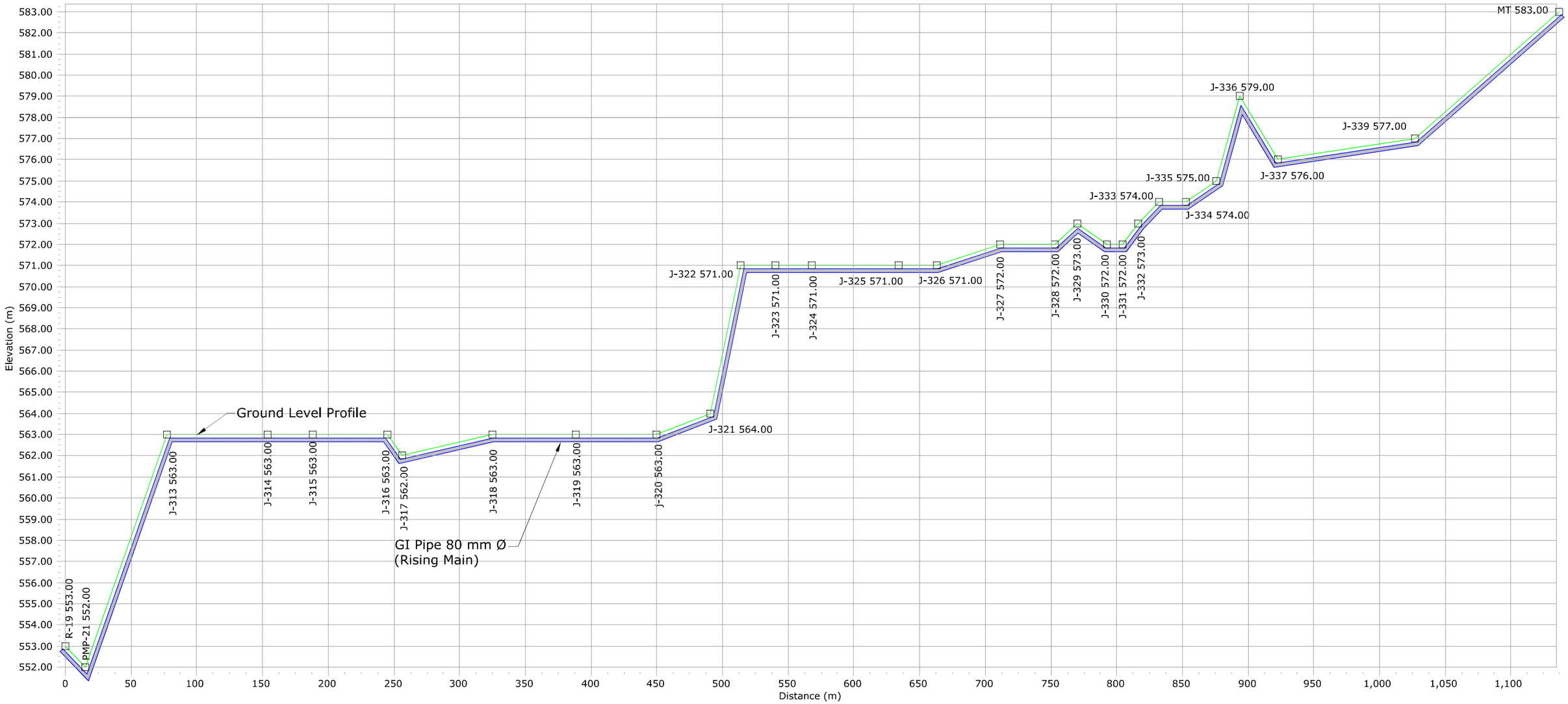
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A-CV-3082-WS-38372	ISSUE P0
DC & DISC : DEL-CV		

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1



Legend :-

1. Ground Level
2. Rising Main
3. Junction
4. Air Valve
5. Scour Valve

Note:-

1. Air Valves are Considered to be provided at 500 m c/c and at High Points.
2. Scour Valves are Provided at 2000 m c/c Distance.
3. The Arrangement Shown is Tentative. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

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FILE NAME: 12503A-CV-38373-Rev-P0

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE-CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L-SECTION- LIS THANPAL/CHAMBI

LAMBAGOAN BLOCK, KANGRA DISTRICT

TATA CONSULTING ENGINEERS LIMITED

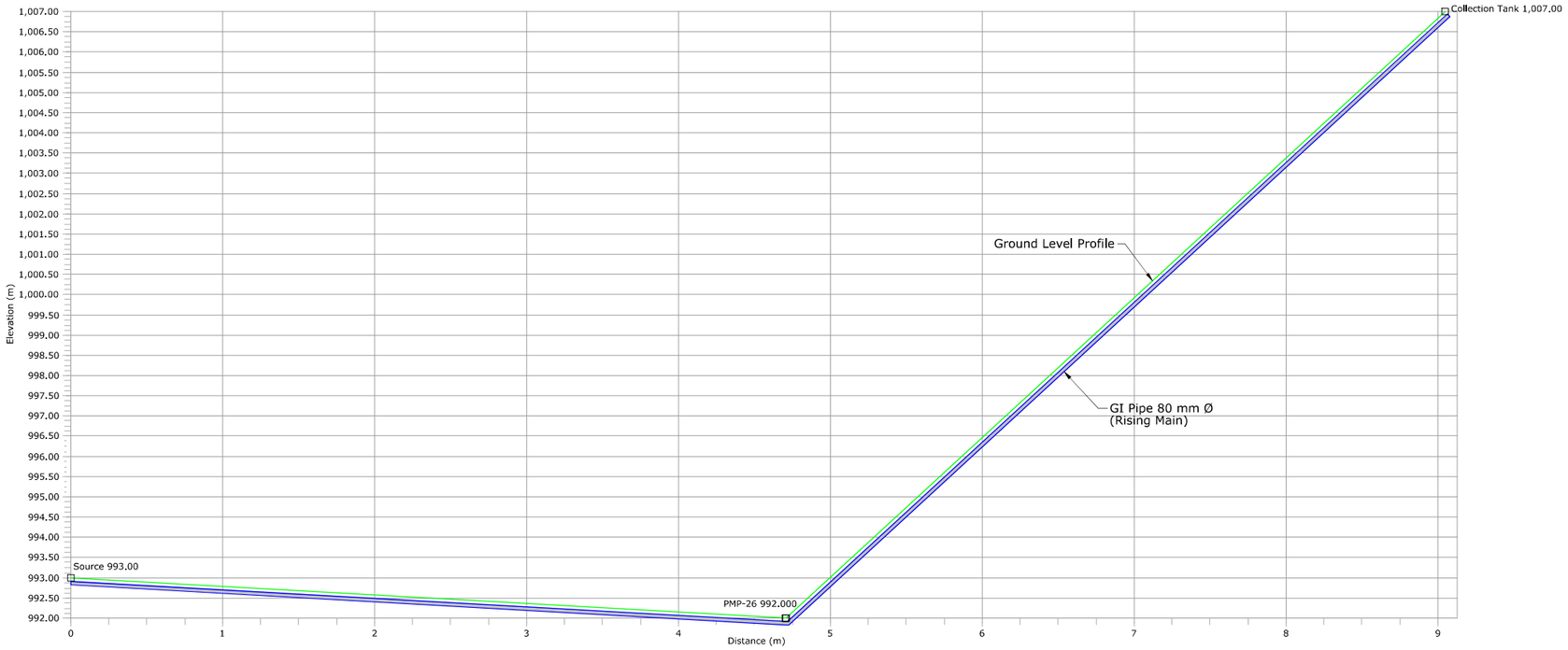
MUMBAI

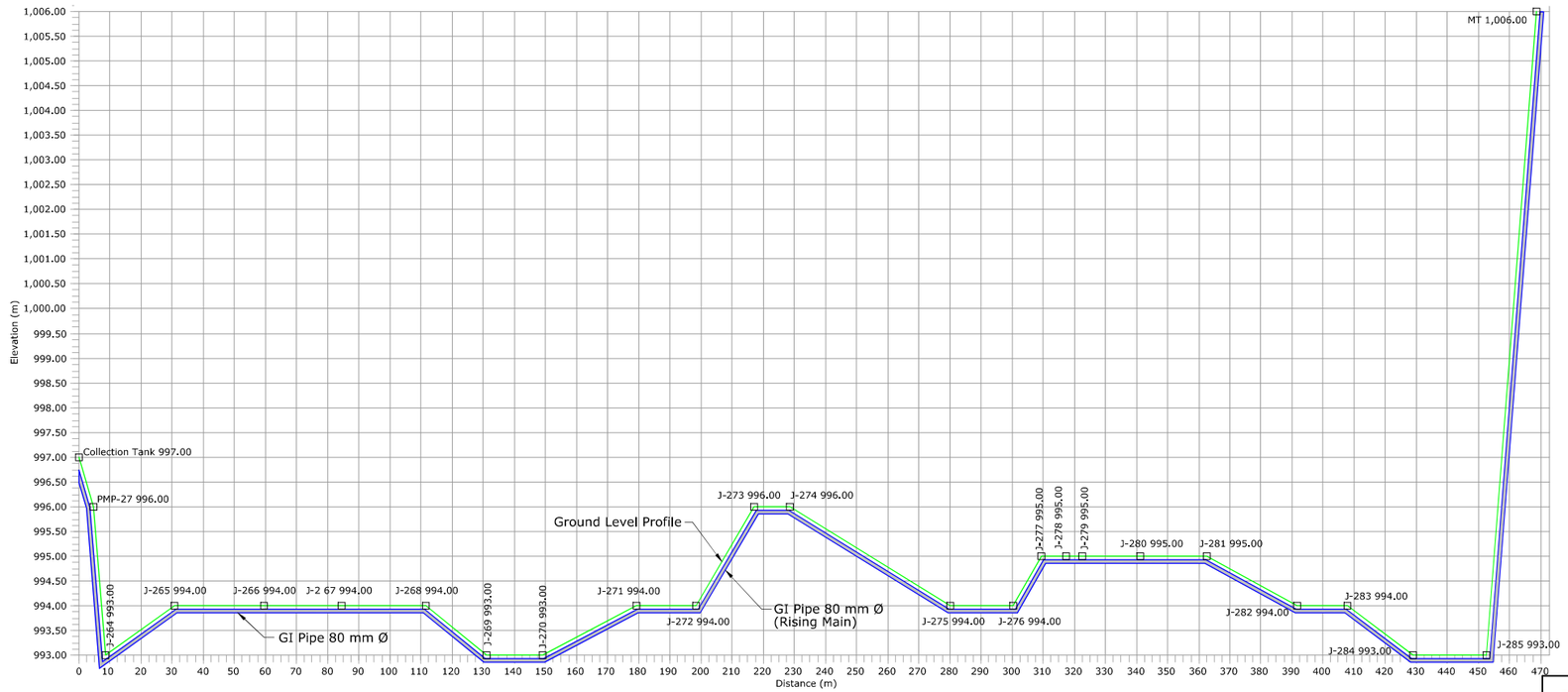
SCALE : NTS	DWG NO. TCE.12503A-CV-3082-WS-38373	ISSUE P0
DC & DISC: DEL-CV		

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1





Legend :-

1. Ground Level
2. Rising Main
3. Junction
4. Air Valve
5. Scour Valve

Note:-

1. Air Valves are Considered to be provided at 500 m c/c and at High Points.
2. Scour Valves are Provided at 2000 m c/c Distance.
3. The Arrangement Shown is Tentative. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

SIGN. OF CLIENT:–

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DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE–CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L–SECTION– LIS TREHAL

PANCHRUKHI BLOCK, KANGRA DISTRICT

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	INITIALS	BSN	SKAC	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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FILE NAME 12503A–CV–38374–Rev–P0

TATA CONSULTING ENGINEERS LIMITED

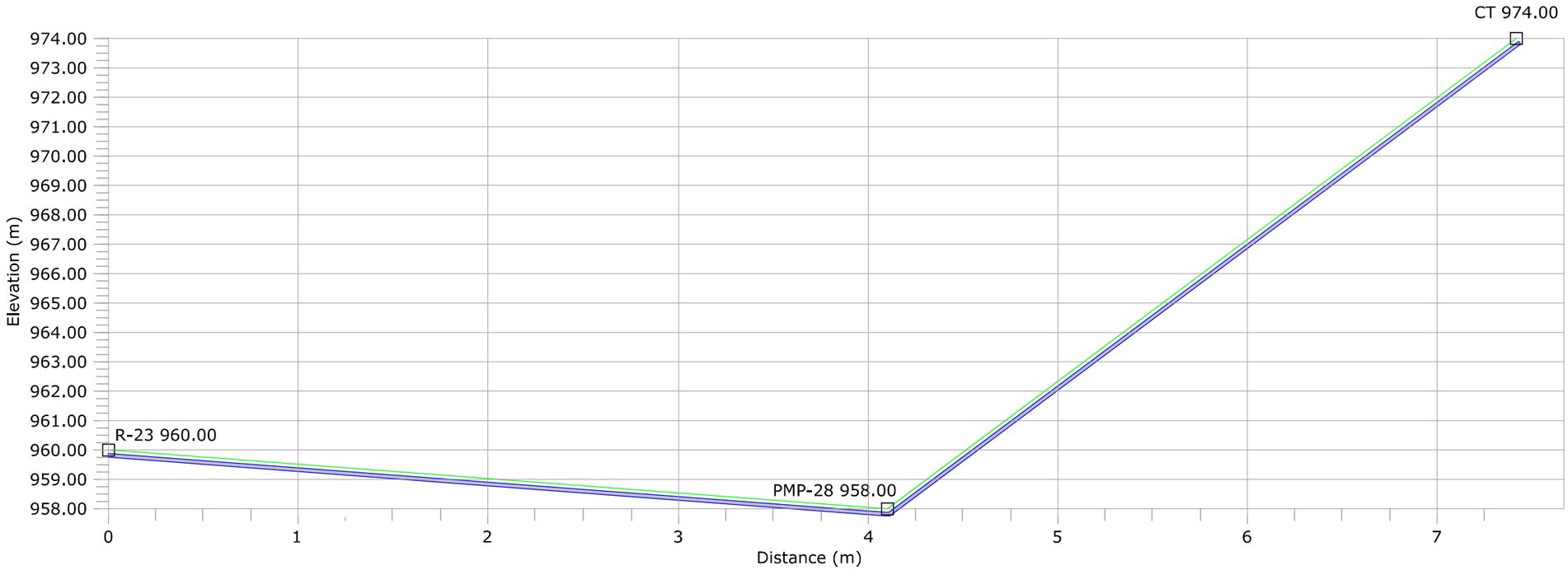
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A–CV–3082–WS–38374	ISSUE P0
DC & DISC: DEL–CV		

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1

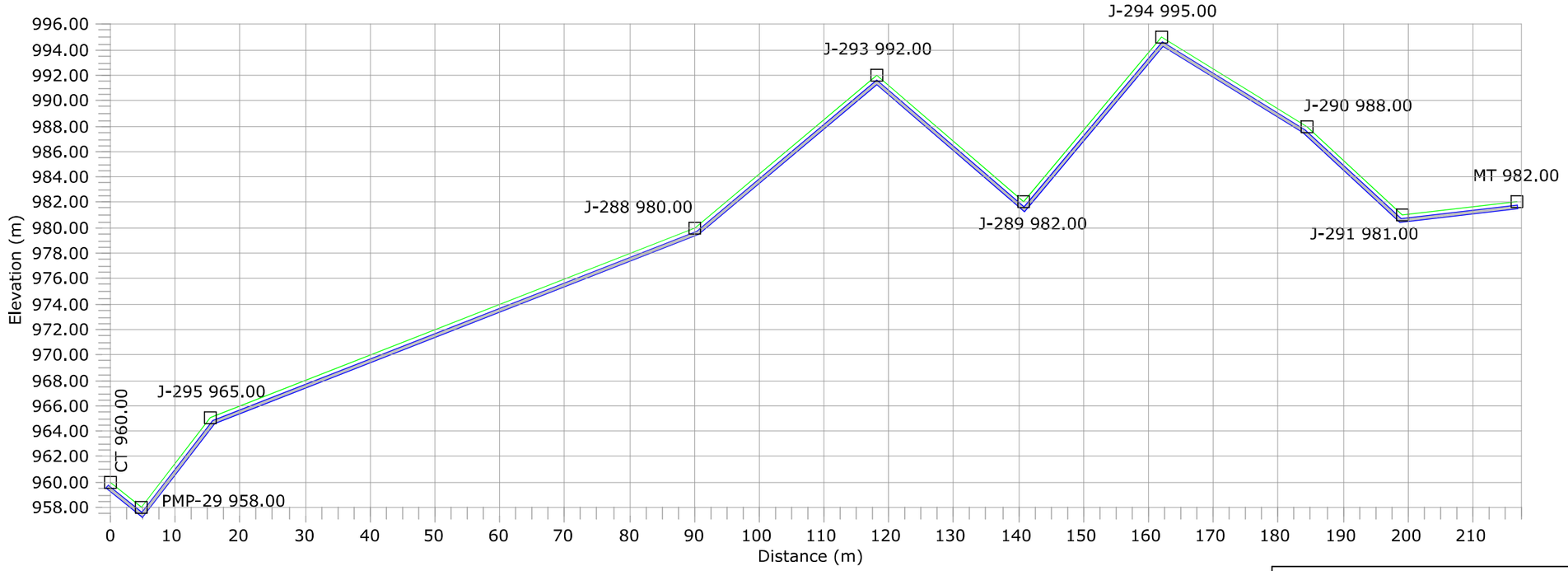


Legend :-

1. Ground Level
2. Rising Main
3. Junction
4. Air Valve
5. Scour Valve

Note:-

1. Air Valves are Considered to be provided at 500 m c/c and at High Points.
2. Scour Valves are Provided at 2000 m c/c Distance.
3. The Arrangement Shown is Tentative. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.



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DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE–CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L–SECTION– LIS AGOZAR

PANCHRUKHI BLOCK, KANGRA DISTRICT

TATA CONSULTING ENGINEERS LIMITED

MUMBAI

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FILE NAME: 12503A–CV–38375–Rev–P1

SCALE : NTS

DC & DISC: DEL–CV

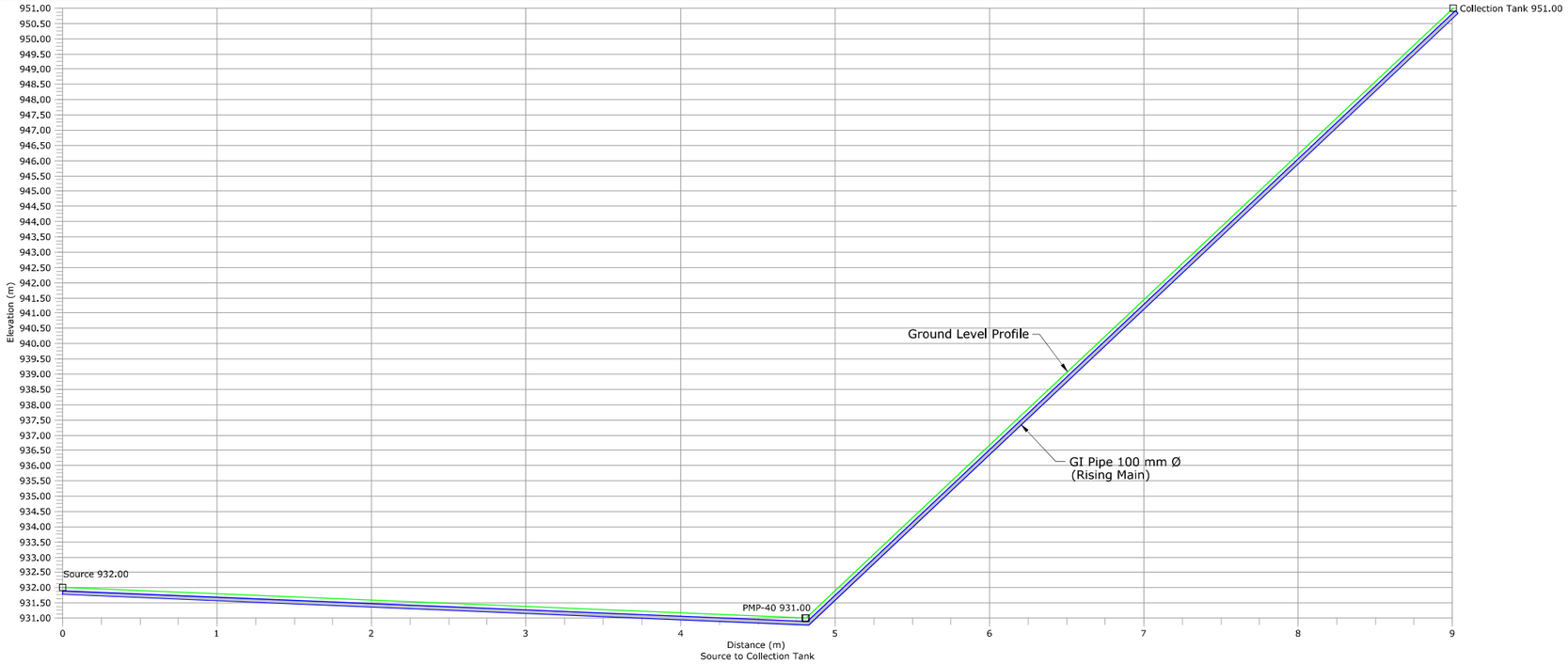
DWG NO. TCE.12503A–CV–3082–WS–38375

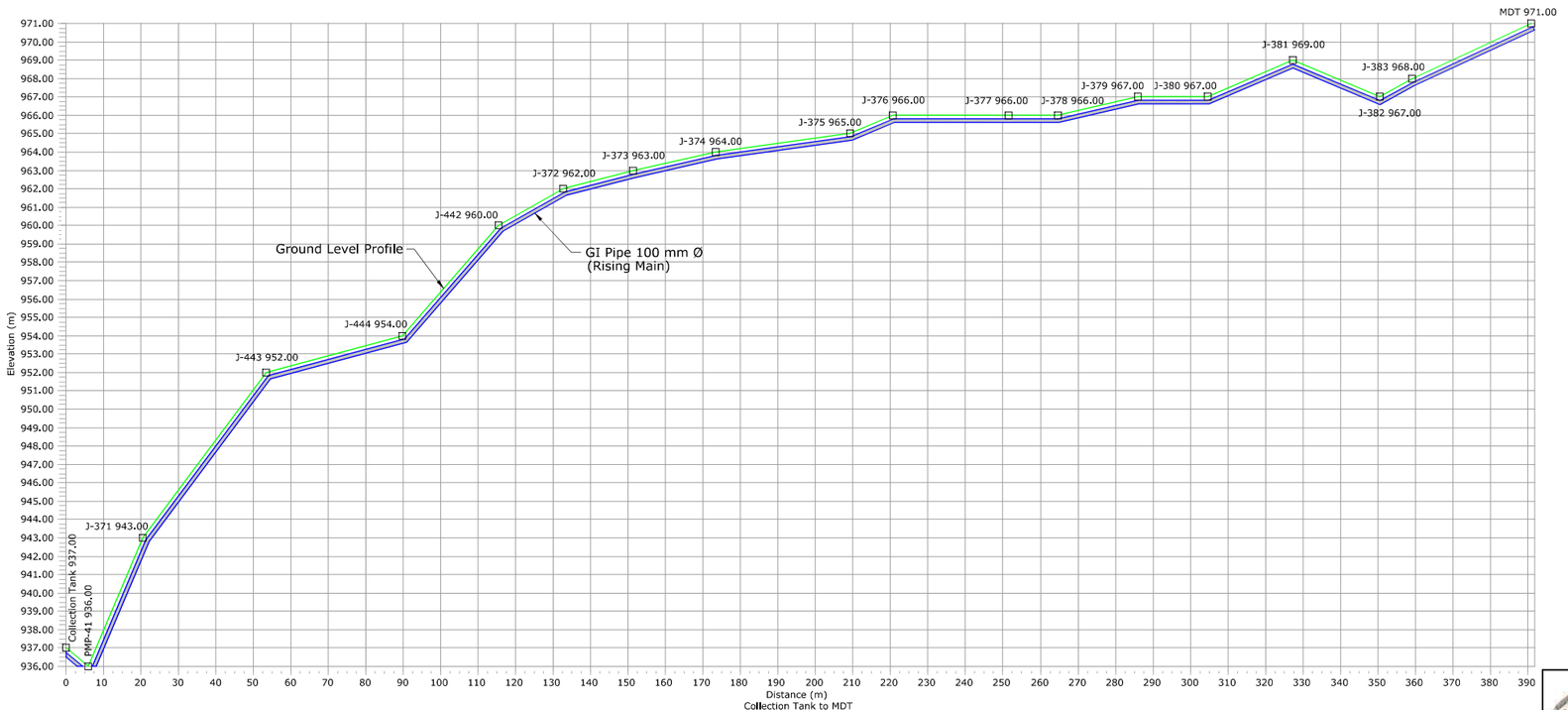
ISSUE P1

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1





Legend :-

1. Ground Level
2. Rising Main
3. Junction
4. Air Valve
5. Scour Valve

Note:-

1. Air Valves are Considered to be provided at 500 m c/c and at High Points.
2. Scour Valves are Provided at 2000 m c/c Distance.
3. The Arrangement Shown is Tentative. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

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FILE NAME 12503A–CV–38376–Rev–P0

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE–CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L–SECTION– LIS RAJHOT 1
PANCHRUKHI BLOCK, KANGRA DISTRICT
(SHEET 01 OF 03)

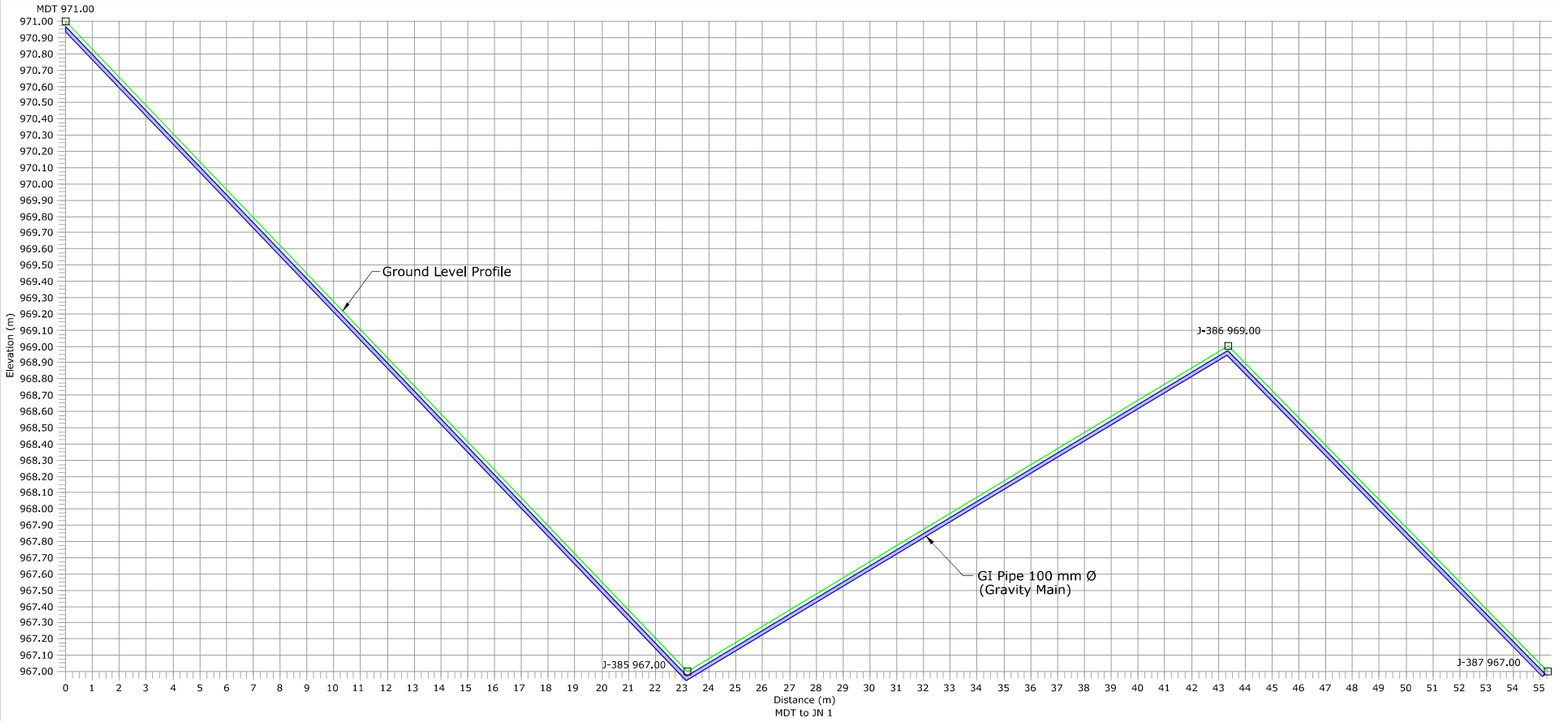
TATA CONSULTING ENGINEERS LIMITED
MUMBAI

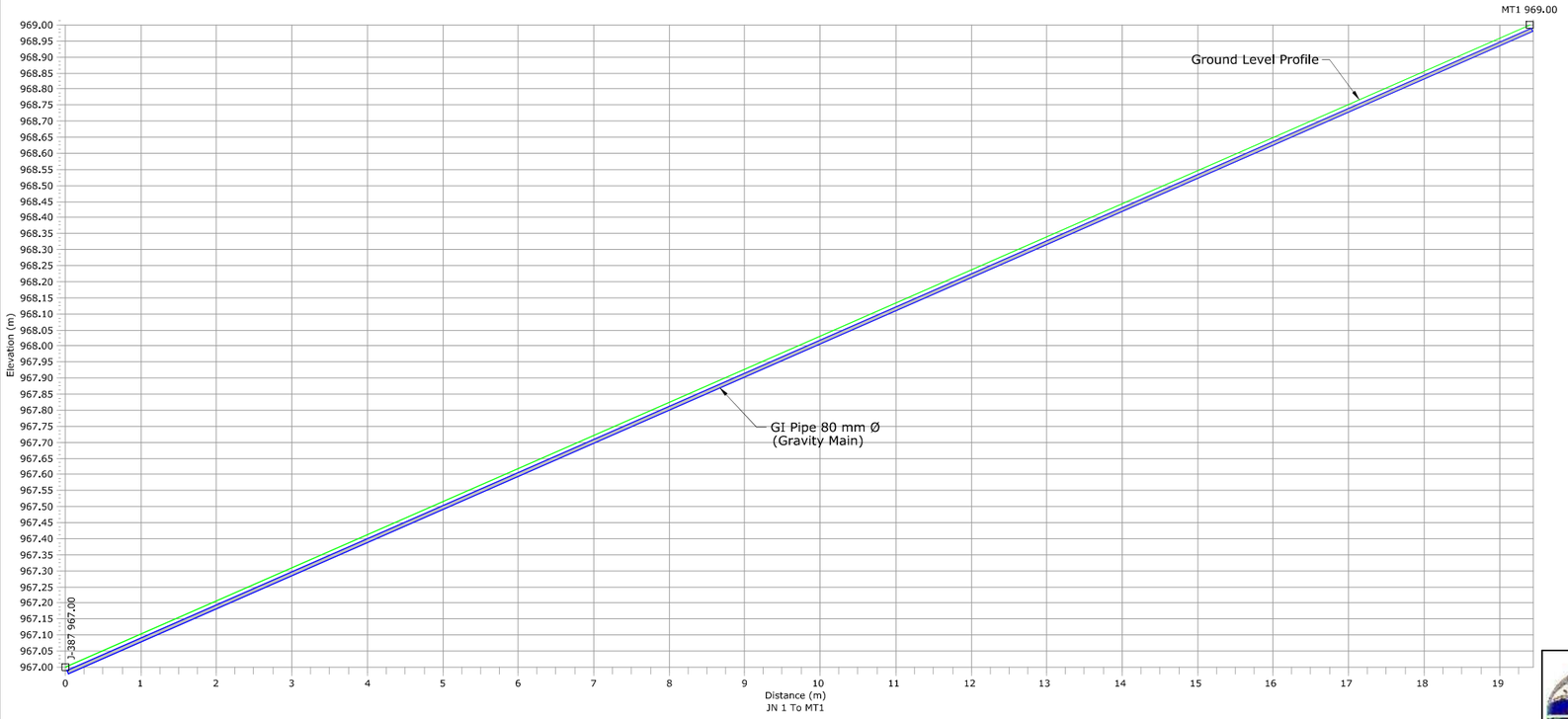
SCALE : NTS	DWG NO. TCE.12503A–CV–3082–WS–38376	ISSUE P0
DC & DISC: DEL–CV		

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1





Legend :-

1. Ground Level
2. Rising Main
3. Junction
4. Air Valve
5. Scour Valve

Note:-

1. Air Valves are Considered to be provided at 500 m c/c and at High Points.
2. Scour Valves are Provided at 2000 m c/c Distance.
3. The Arrangement Shown is Tentative. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

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FILE NAME 12503A–CV–38377–Rev–P0

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE–CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L–SECTION– LIS RAJHOT 1
PANCHRUKHI BLOCK, KANGRA DISTRICT
(SHEET 02 OF 03)

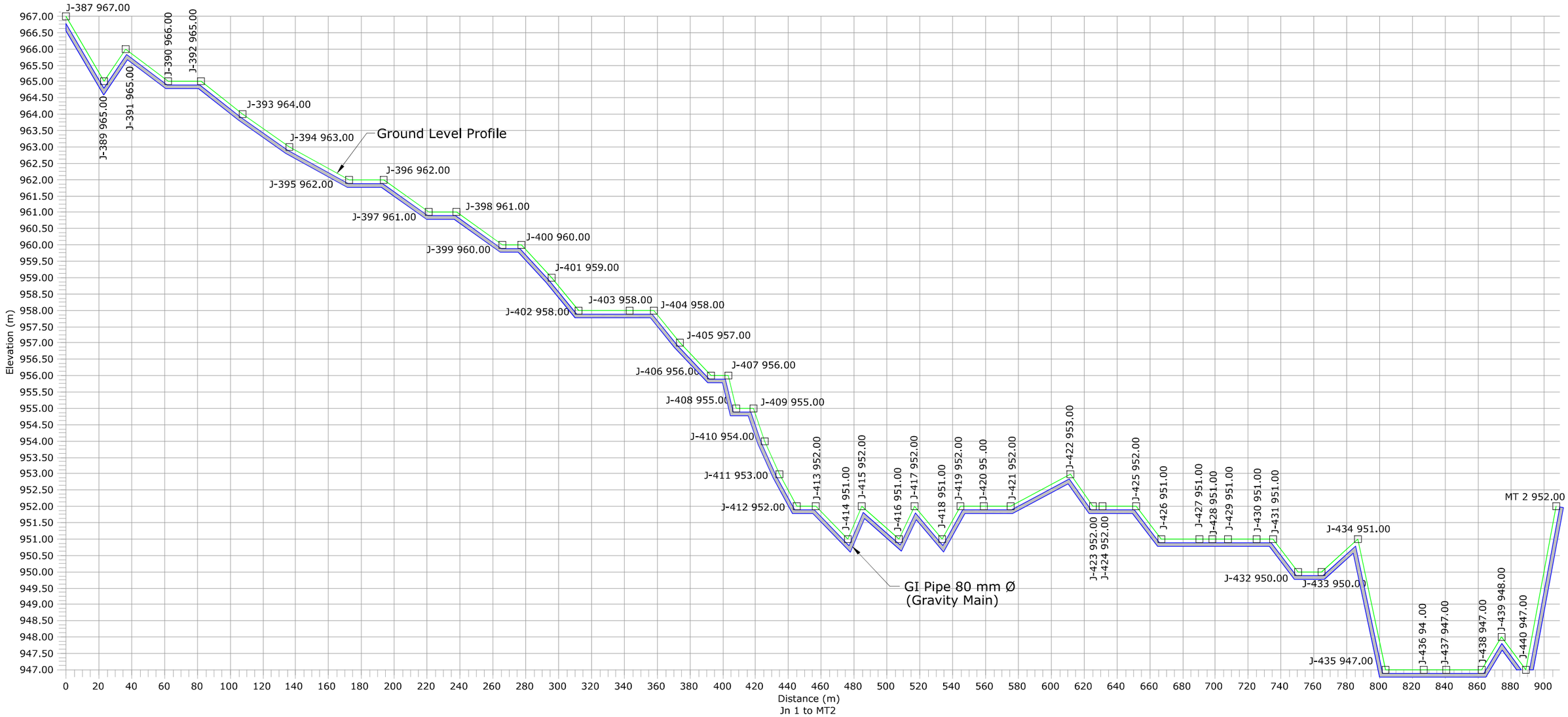
TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A–CV–3082–WS–38377	ISSUE P0
DC & DISC: DEL–CV		

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1



Legend :-

1. Ground Level
2. Rising Main
3. Junction
4. Air Valve
5. Scour Valve

Note:-

1. Air Valves are Considered to be provided at 500 m c/c and at High Points.
2. Scour Valves are Provided at 2000 m c/c Distance.
3. The Arrangement Shown is Tentative. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

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FILE NAME 12503A–CV–38378–Rev–P0

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE–CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L–SECTION– LIS RAJHOT 1
PANCHRUKHI BLOCK, KANGRA DISTRICT
(SHEET 03 OF 03)

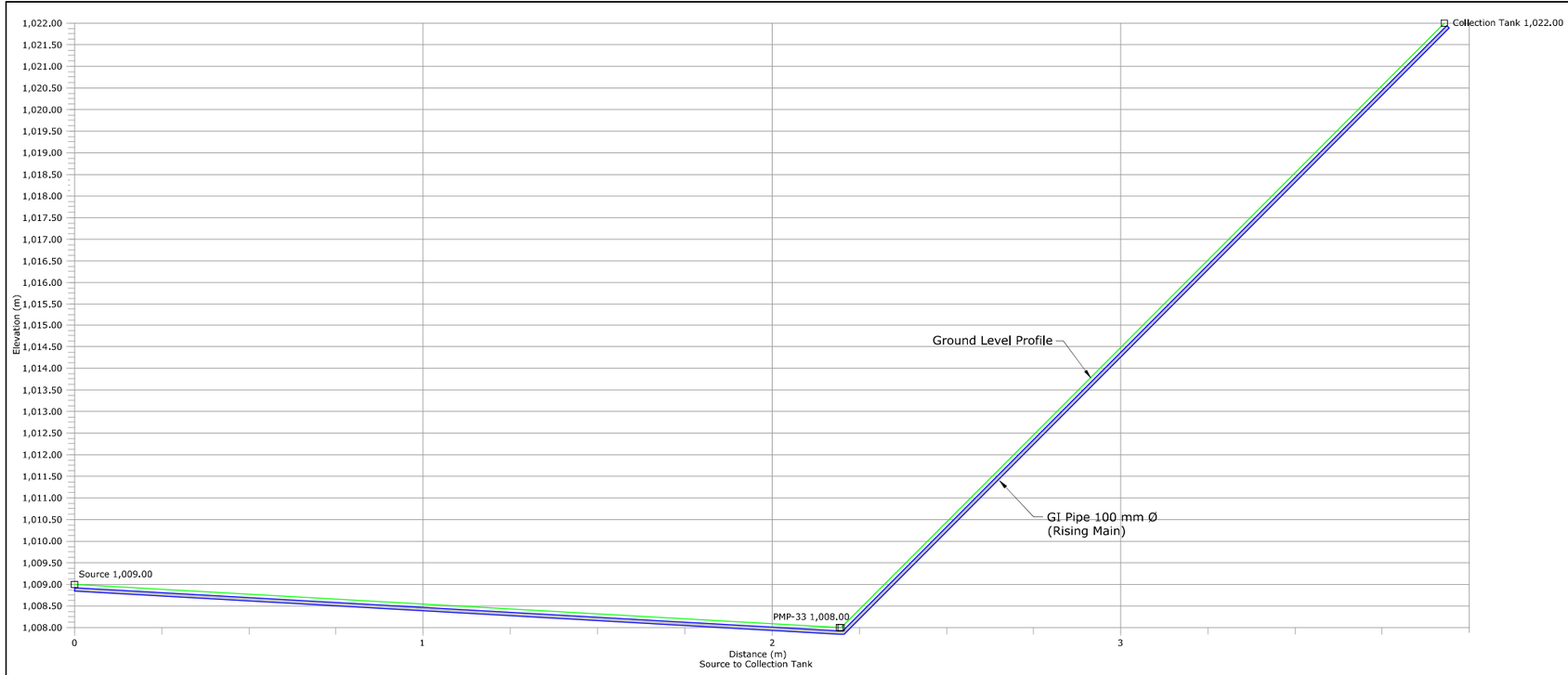
TATA CONSULTING ENGINEERS LIMITED
MUMBAI

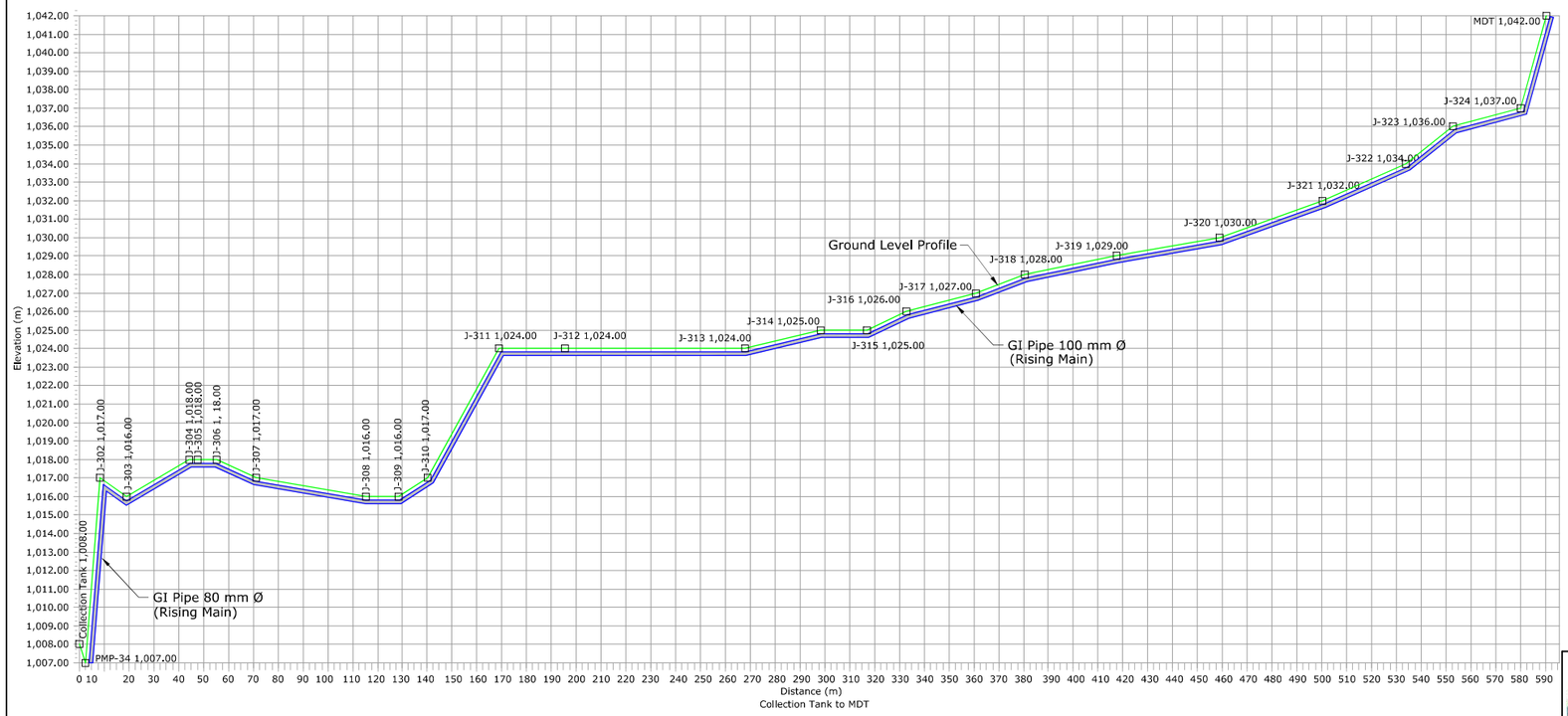
SCALE : NTS	DWG NO. TCE.12503A–CV–3082–WS–38378		ISSUE P0
DC & DISC: DEL–CV			

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1





Legend :-

1. Ground Level
2. Rising Main
3. Junction
4. Air Valve
5. Scour Valve

Note:-

1. Air Valves are Considered to be provided at 500 m c/c and at High Points.
2. Scour Valves are Provided at 2000 m c/c Distance.
3. The Arrangement Shown is Tentative. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

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DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE-CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L-SECTION- LIS LADOH 1

PANCHRUKHI BLOCK, KANGRA DISTRICT

(SHEET 01 OF 02)

TATA CONSULTING ENGINEERS LIMITED

MUMBAI

SCALE : NTS	DWG NO. TCE.12503A-CV-3082-WS-38379		ISSUE P0
DC & DISC: DEL-CV			

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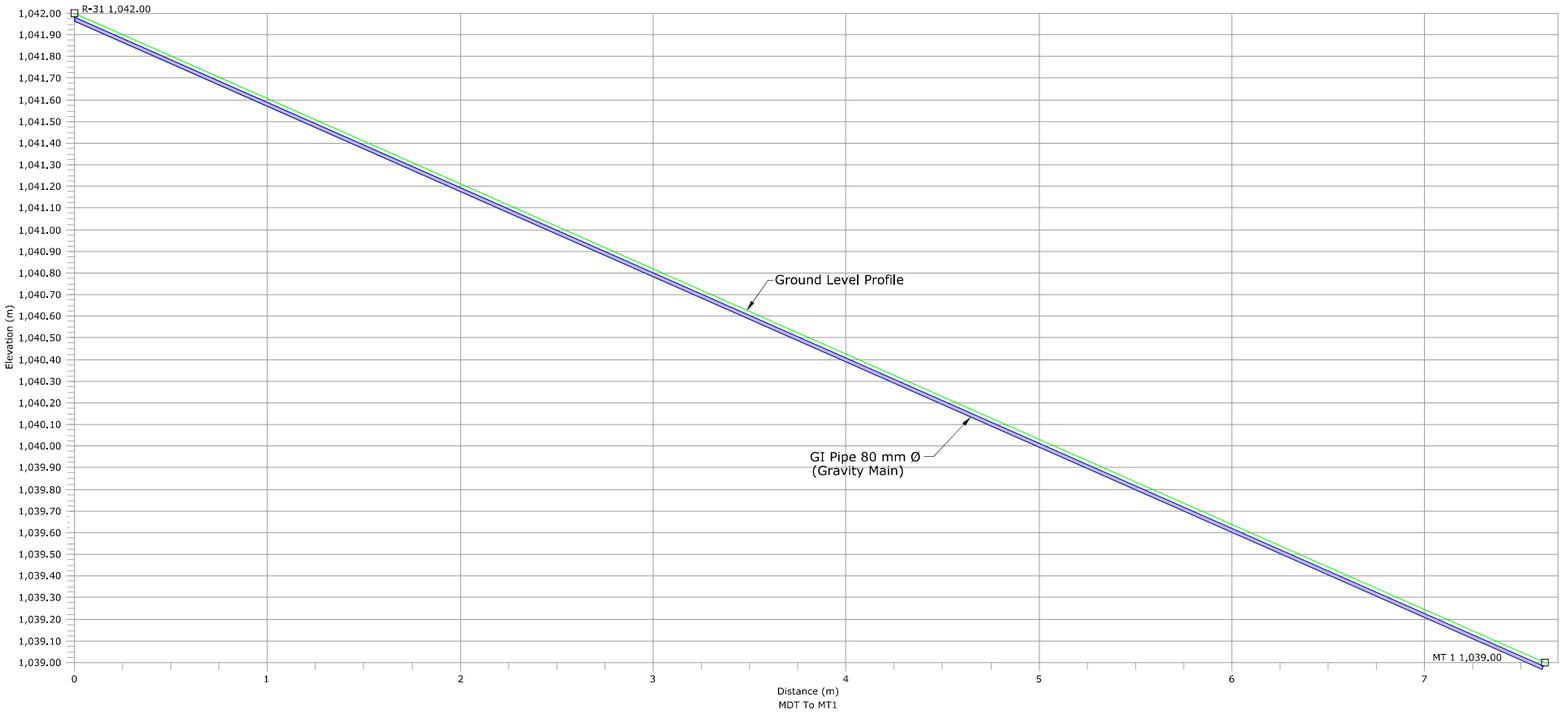

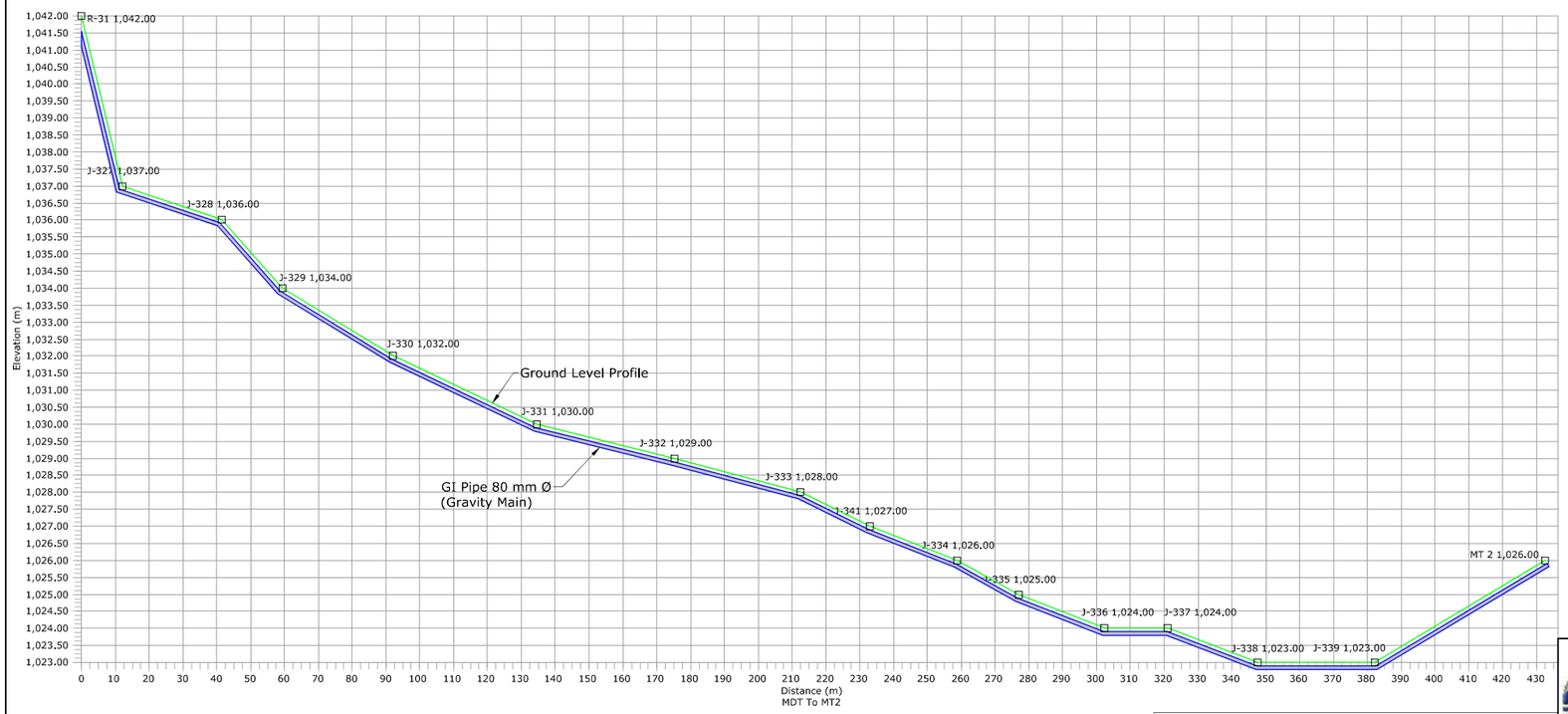

Legend :-

1. Ground Level
2. Rising Main
3. Junction
4. Air Valve
5. Scour Valve

Note:-

1. Air Valves are Considered to be provided at 500 m c/c and at High Points.
2. Scour Valves are Provided at 2000 m c/c Distance.
3. The Arrangement Shown is Tentative. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

SIGN. OF CLIENT:–

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FILE NAME 12503A–CV–38380–Rev–P0

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE–CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L–SECTION– LIS LADOH 1

PANCHRUKHI BLOCK, KANGRA DISTRICT

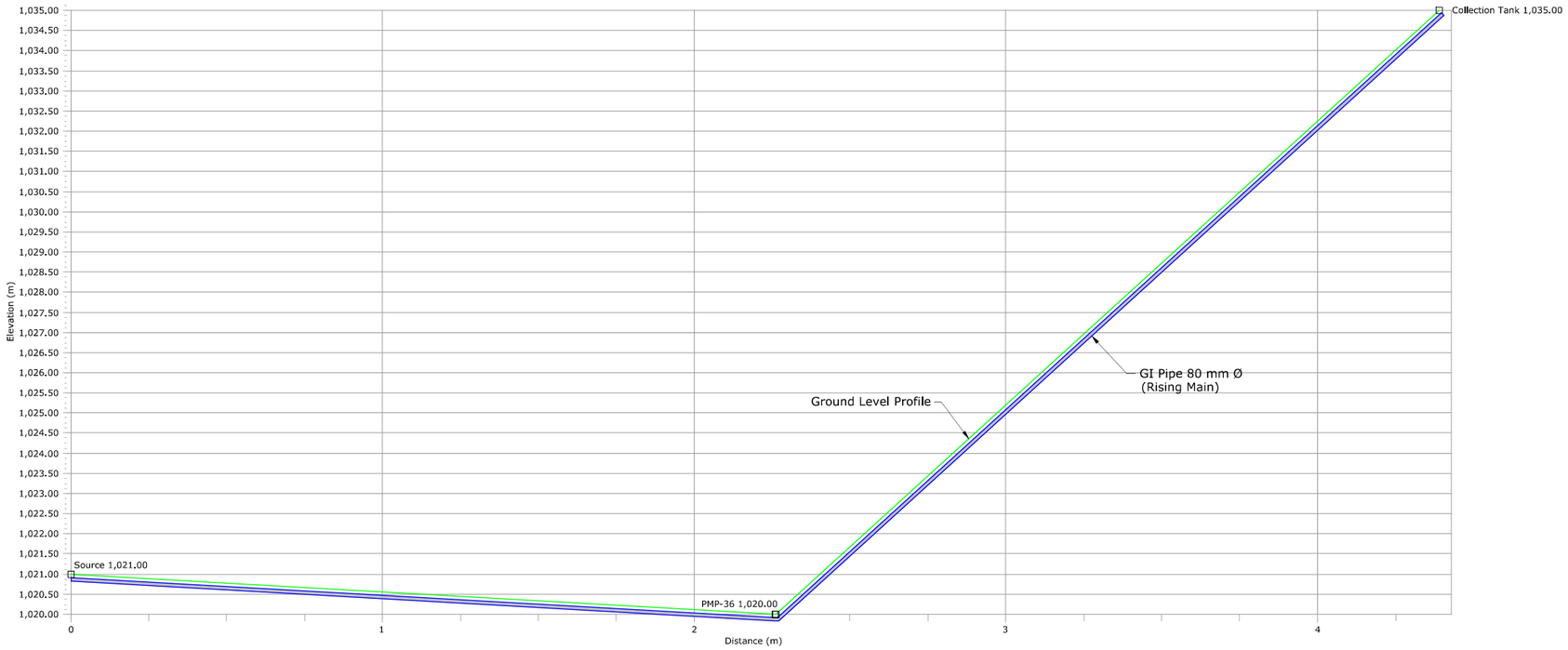
(SHEET 02 OF 02)

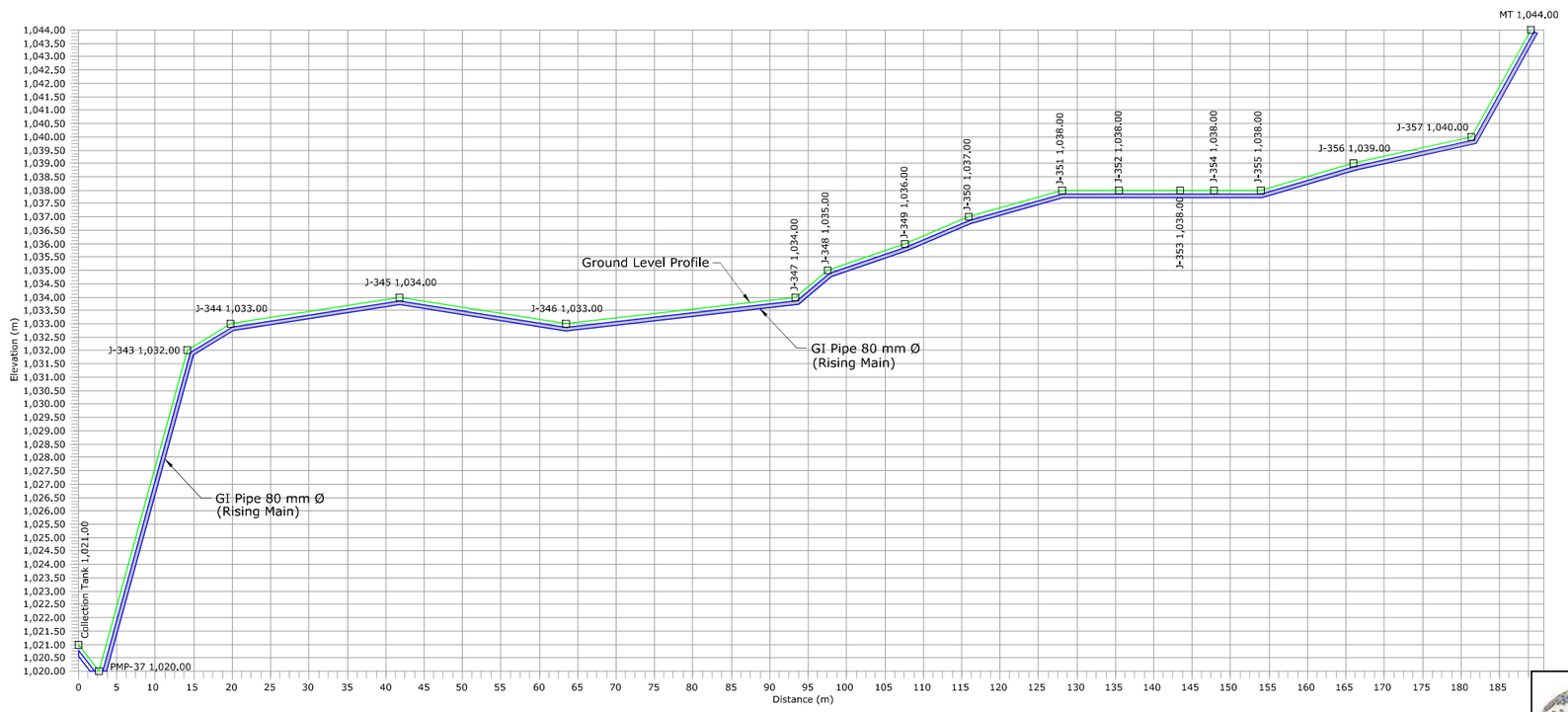
TATA CONSULTING ENGINEERS LIMITED

MUMBAI

SCALE : NTS	DWG NO. TCE.12503A–CV–3082–WS–38380	ISSUE P0
DC & DISC: DEL–CV		

SIZE-A3





Legend :-

1. Ground Level
2. Rising Main
3. Junction
4. Air Valve
5. Scour Valve

Note:-

1. Air Valves are Considered to be provided at 500 m c/c and at High Points.
2. Scour Valves are Provided at 2000 m c/c Distance.
3. The Arrangement Shown is Tentative. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

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FILE NAME: 12503A–CV–38381–Rev–P0

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE–CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L–SECTION– LIS LADOH–2

PANCHRUKHI BLOCK, KANGRA DISTRICT

TATA CONSULTING ENGINEERS LIMITED

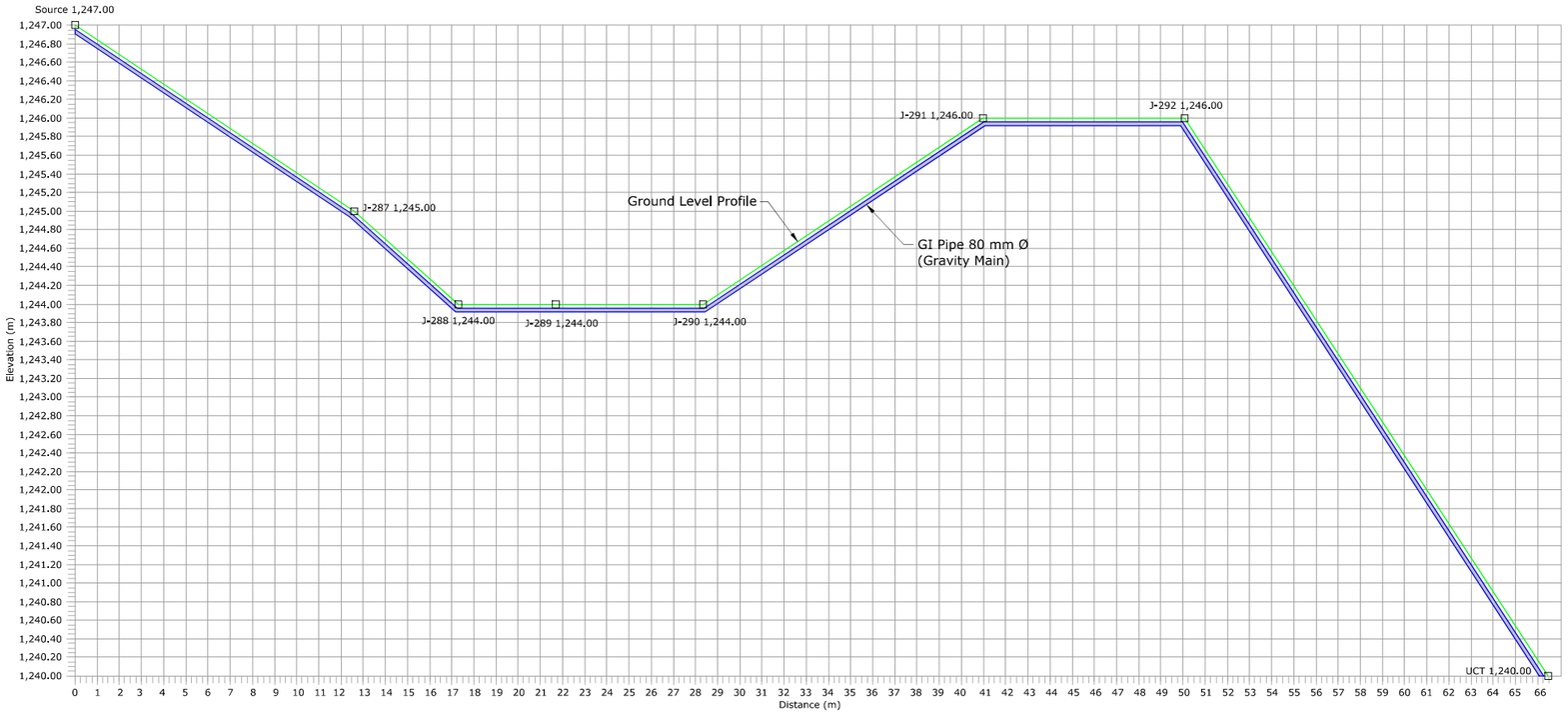
MUMBAI

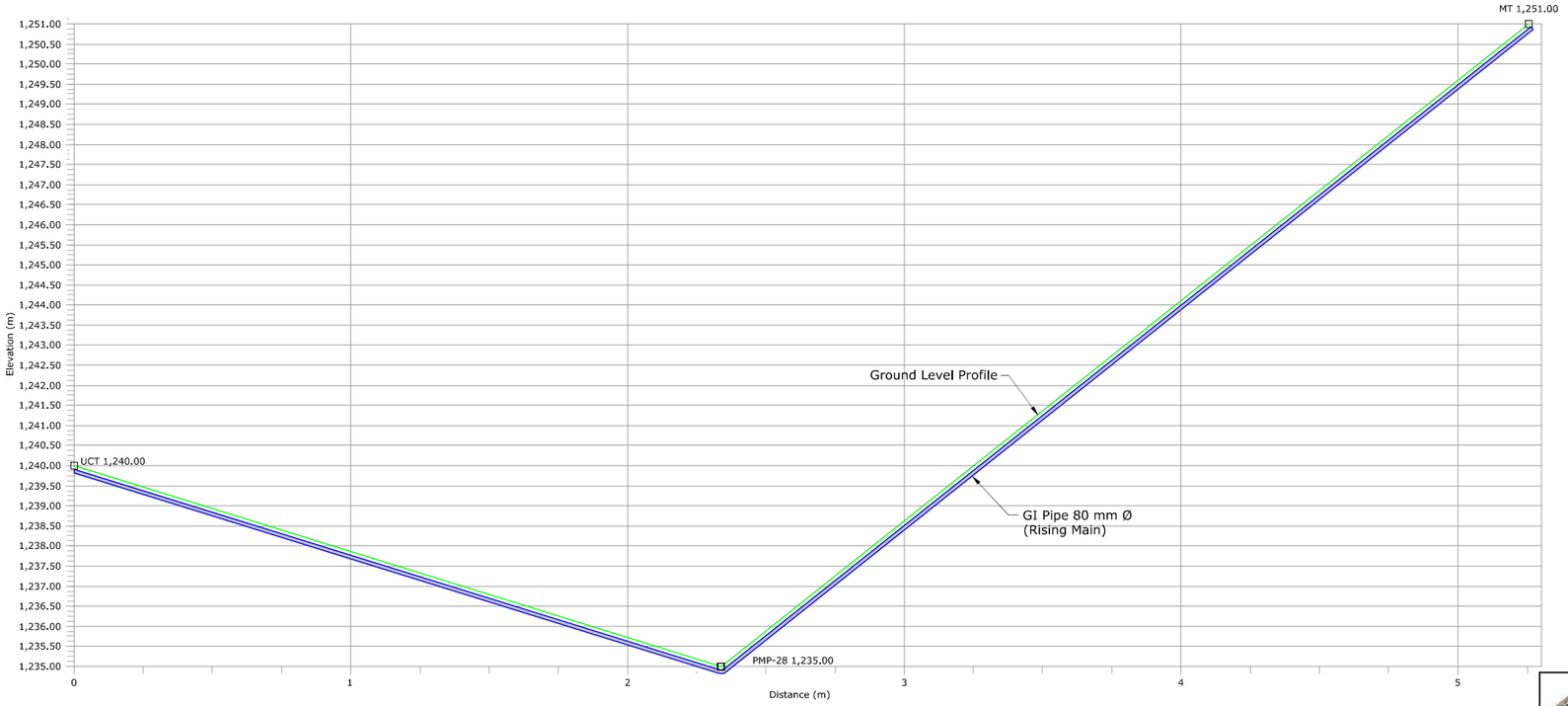
SCALE : NTS	DWG NO. TCE.12503A–CV–3082–WS–38381	ISSUE P0
DC & DISC: DEL–CV		

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1





Legend :-

1. Ground Level
2. Rising Main
3. Junction
4. Air Valve
5. Scour Valve

Note:-

1. Air Valves are Considered to be provided at 500 m c/c and at High Points.
2. Scour Valves are Provided at 2000 m c/c Distance.
3. The Arrangement Shown is Tentative. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

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FILE NAME: 12503A-CV-38382-Rev-P0

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE-CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L-SECTION- LIS BANURI

PANCHRUKHI BLOCK, KANGRA DISTRICT

TATA CONSULTING ENGINEERS LIMITED

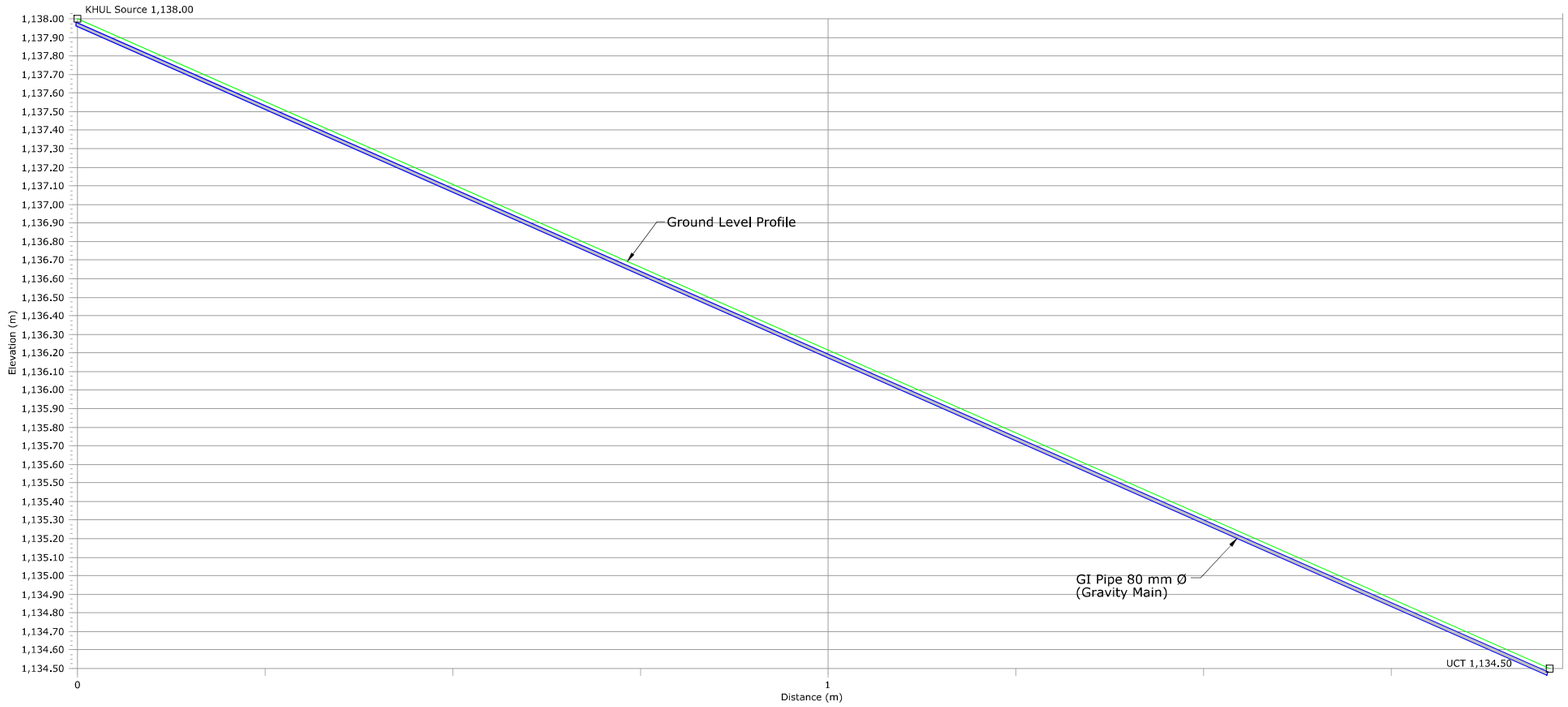
MUMBAI

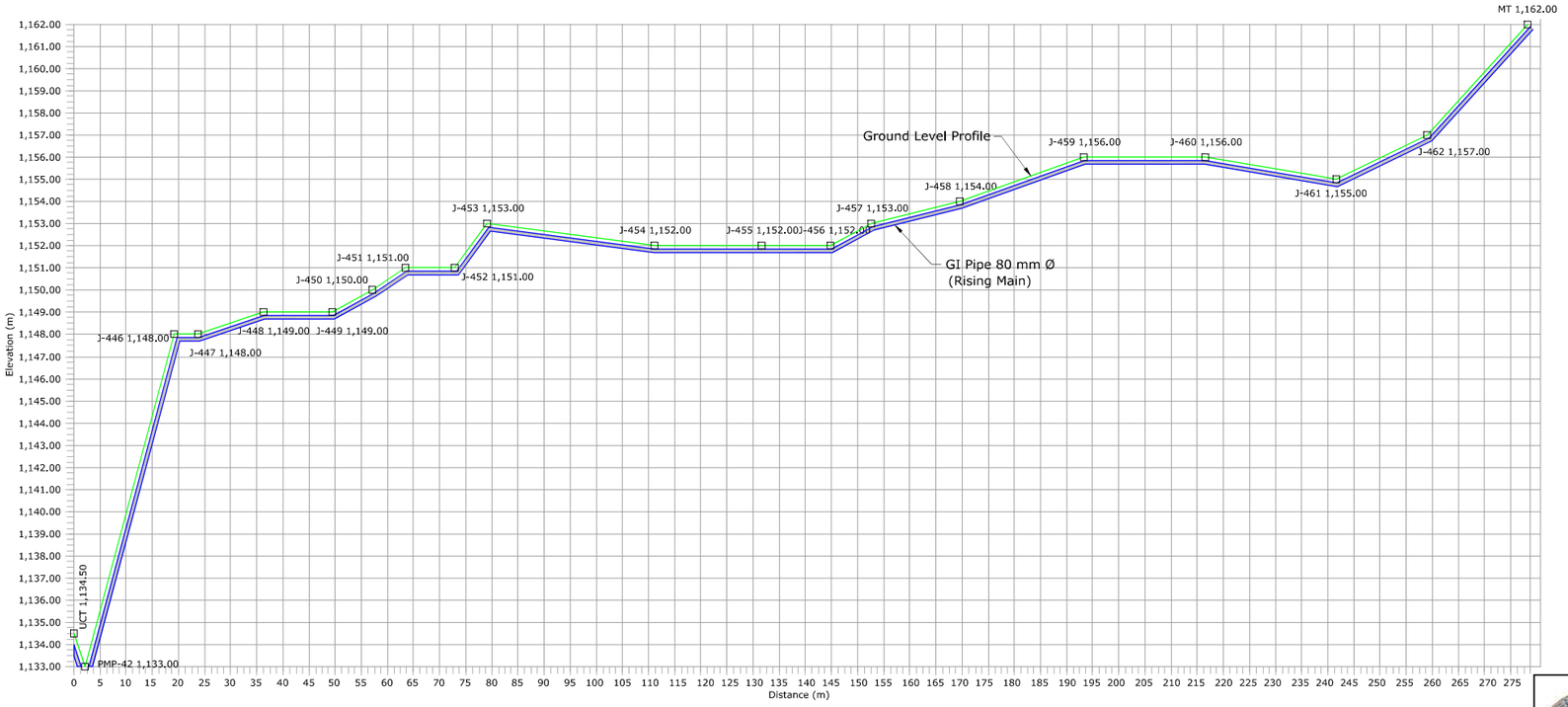
SCALE : NTS	DWG NO. TCE.12503A-CV-3082-WS-38382	ISSUE P0
DC & DISC: DEL-CV		

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1





Legend :-

1. Ground Level
2. Rising Main
3. Junction
4. Air Valve
5. Scour Valve

Note:-

1. Air Valves are Considered to be provided at 500 m c/c and at High Points.
2. Scour Valves are Provided at 2000 m c/c Distance.
3. The Arrangement Shown is Tentative. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

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FILE NAME: 12503A-CV-38384-Rev-P0

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE-CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L-SECTION- LIS SALIANA

PANCHRUKHI BLOCK, KANGRA DISTRICT

TATA CONSULTING ENGINEERS LIMITED

MUMBAI

SCALE : NTS	DWG NO. TCE.12503A-CV-3082-WS-38384		ISSUE P0
DC & DISC: DEL-CV			

SIZE-A3

Legend :-

1. Ground Level
2. Rising Main
3. Junction
4. Air Valve
5. Scour Valve

Note:-

1. Air Valves are Considered to be provided at 500 m c/c and at High Points.
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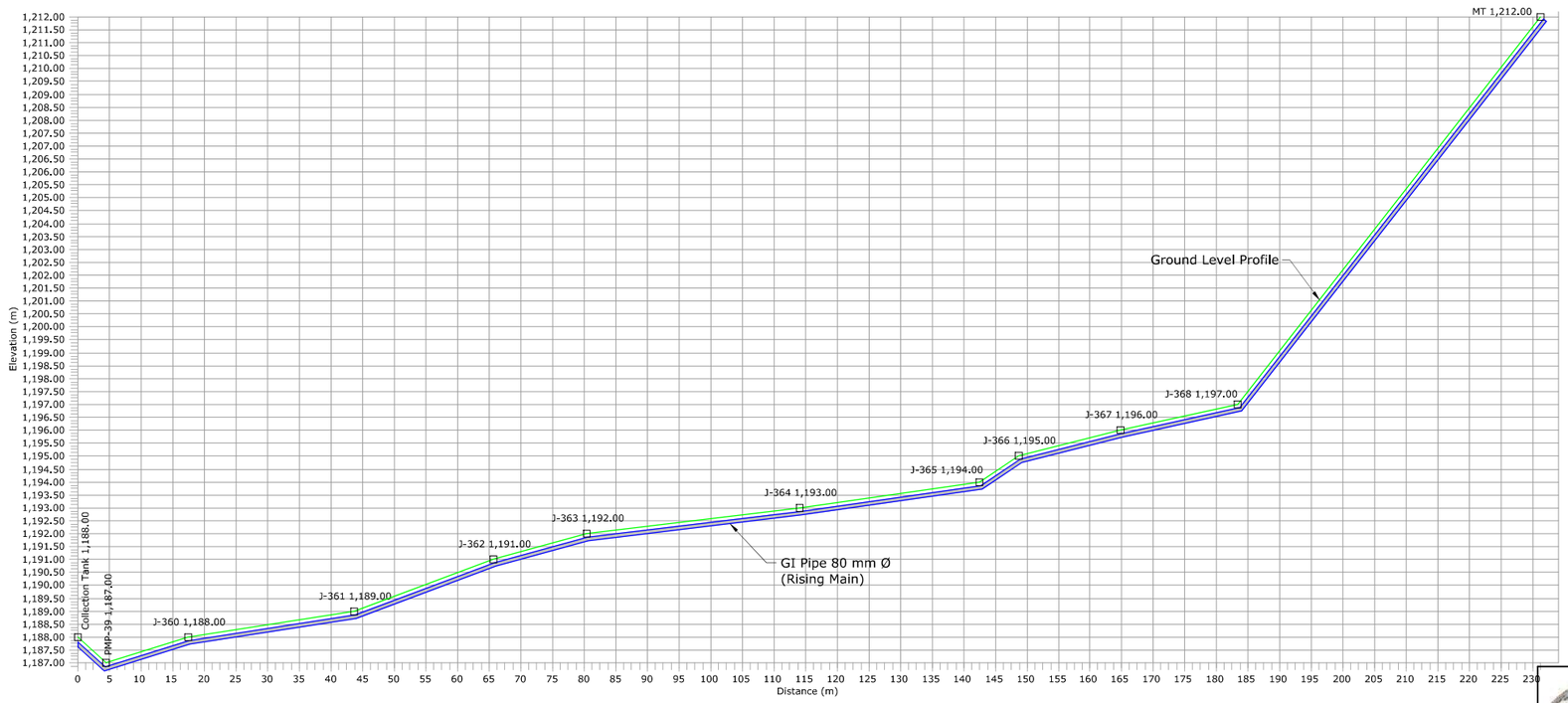

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FILE NAME: 12503A–CV–38385–Rev–P0

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE–CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L–SECTION– LIS MOLICHAK

PANCHRUKHI BLOCK, KANGRA DISTRICT

TATA CONSULTING ENGINEERS LIMITED

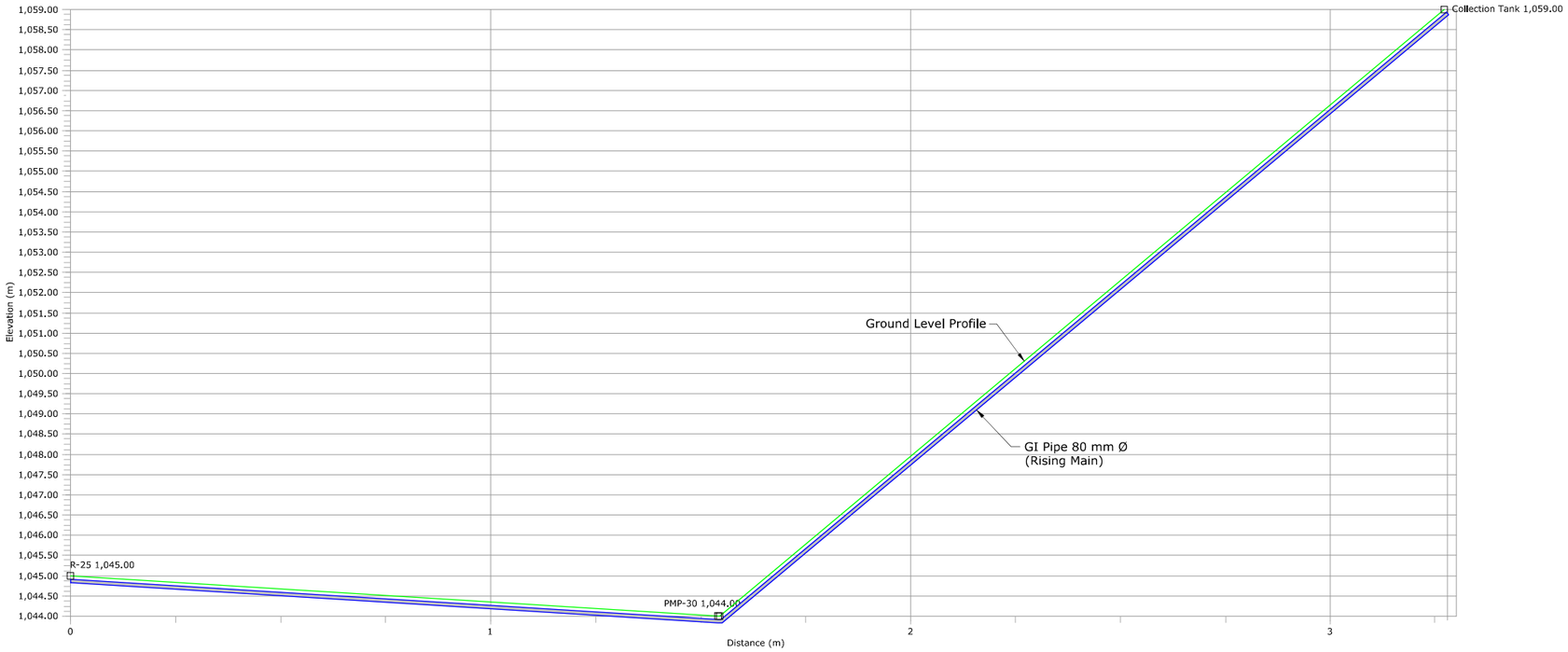
MUMBAI

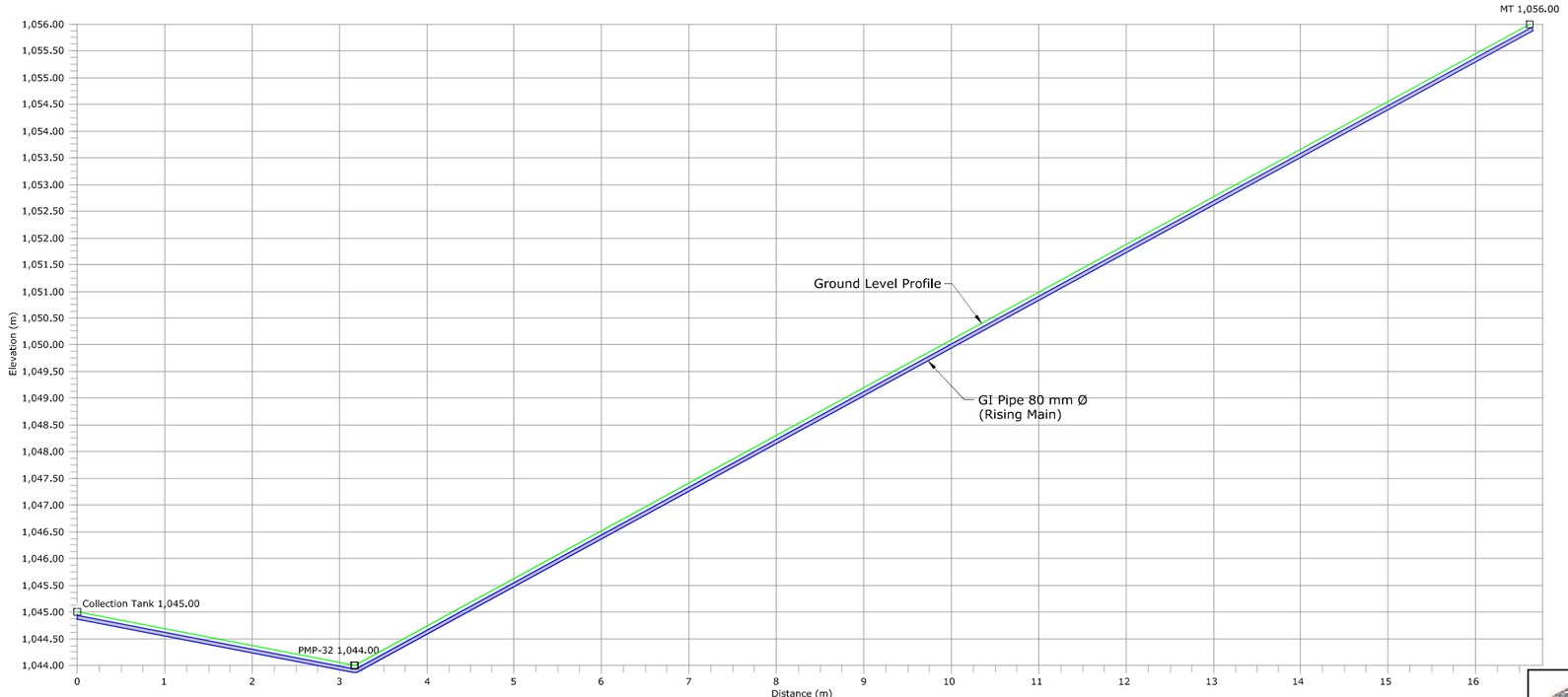
SCALE : NTS	DWG NO. TCE.12503A–CV–3082–WS–38385	ISSUE P0
DC & DISC: DEL–CV		

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1





Legend :-

1. Ground Level
2. Rising Main
3. Junction
4. Air Valve
5. Scour Valve

Note:-

1. Air Valves are Considered to be provided at 500 m c/c and at High Points.
2. Scour Valves are Provided at 2000 m c/c Distance.
3. The Arrangement Shown is Tentative. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

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FILE NAME: 12503A–CV–38386–Rev–P0

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE–CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L–SECTION– LIS JANDPUR
PANCHRUKHI BLOCK, KANGRA DISTRICT

TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A–CV–3082–WS–38386	ISSUE P0
DC & DISC: DEL–CV		

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FILE NAME: F-093-Rev-R1.DWG

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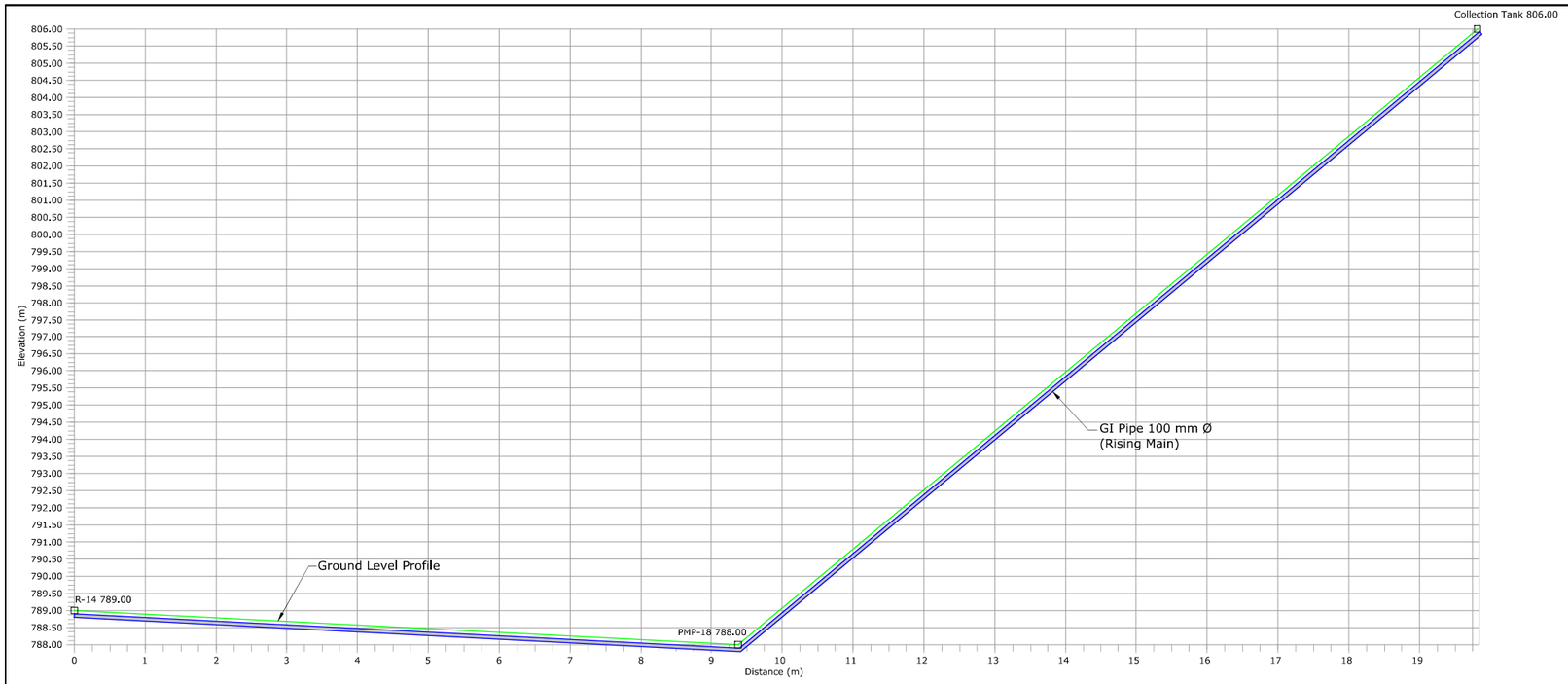

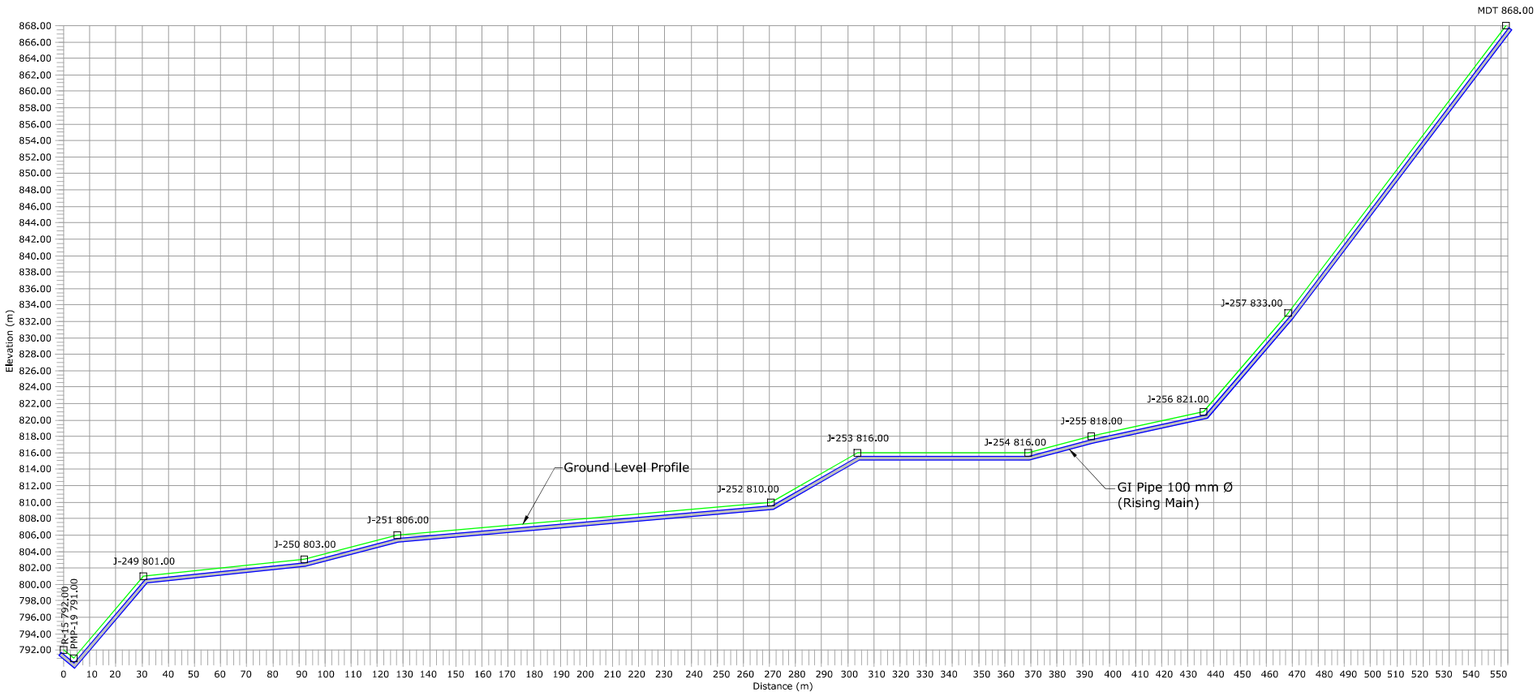

Legend :-

1. Ground Level
2. Rising Main
3. Junction
4. Air Valve
5. Scour Valve

Note:-

1. Air Valves are Considered to be provided at 500 m c/c and at High Points.
2. Scour Valves are Provided at 2000 m c/c Distance.
3. The Arrangement Shown is Tentative. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

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FILE NAME: 12503A-CV-38387-Rev-P0

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE-CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L-SECTION- LIS DHEERA-1 & 2
SULLAH BLOCK, KANGRA DISTRICT
(SHEET 01 OF 02)

TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A-CV-3082-WS-38387	ISSUE P0
DC & DISC: DEL-CV		

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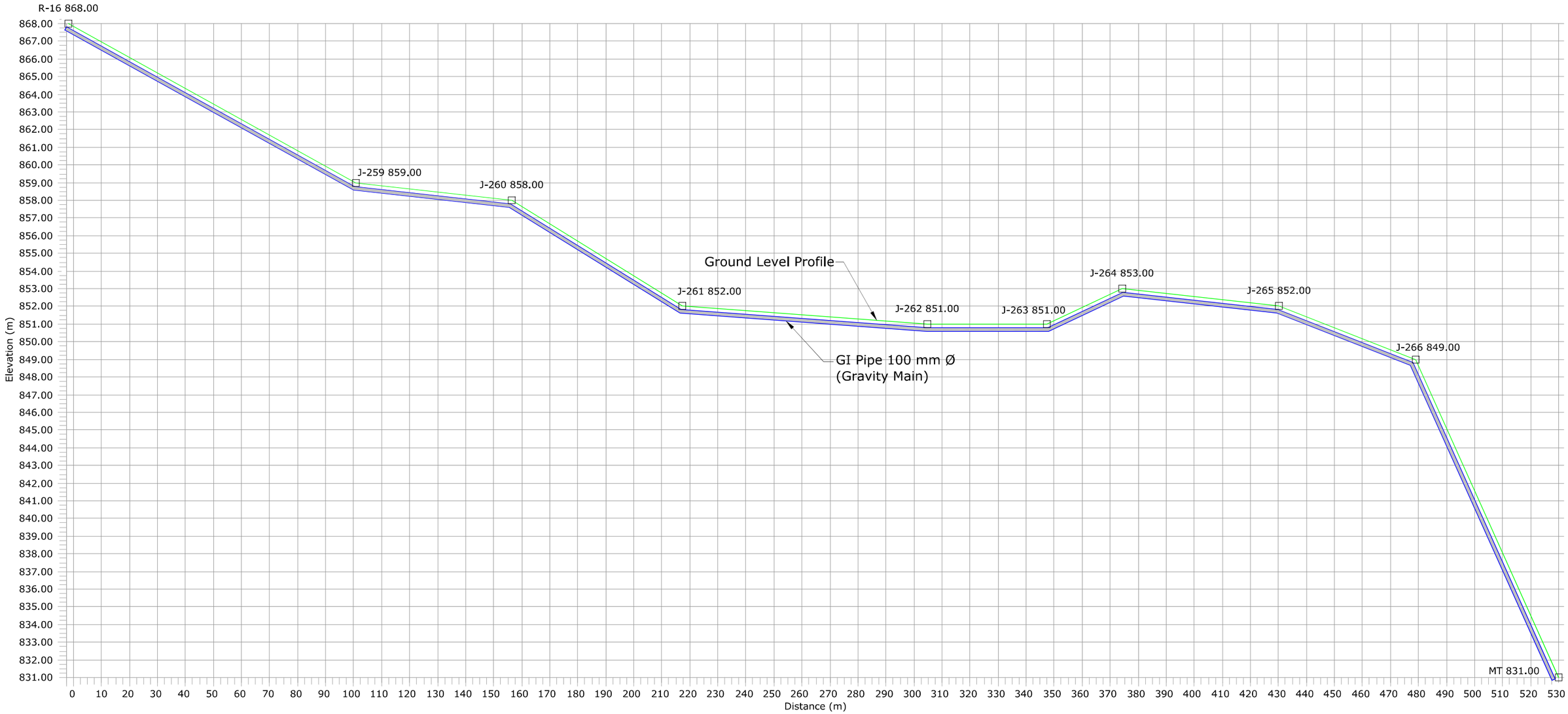
FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1



Legend :-

1. Ground Level
2. Rising Main
3. Junction
4. Air Valve
5. Scour Valve

Note:-

1. Air Valves are Considered to be provided at 500 m c/c and at High Points.
2. Scour Valves are Provided at 2000 m c/c Distance.
3. The Arrangement Shown is Tentative. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

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FILE NAME: 12503A–CV–38388–Rev–P0

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE–CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L–SECTION– LIS DHEERA–1 & 2
SULLAH BLOCK, KANGRA DISTRICT
(SHEET 02 OF 02)

TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A–CV–3082–WS–38388	ISSUE P0
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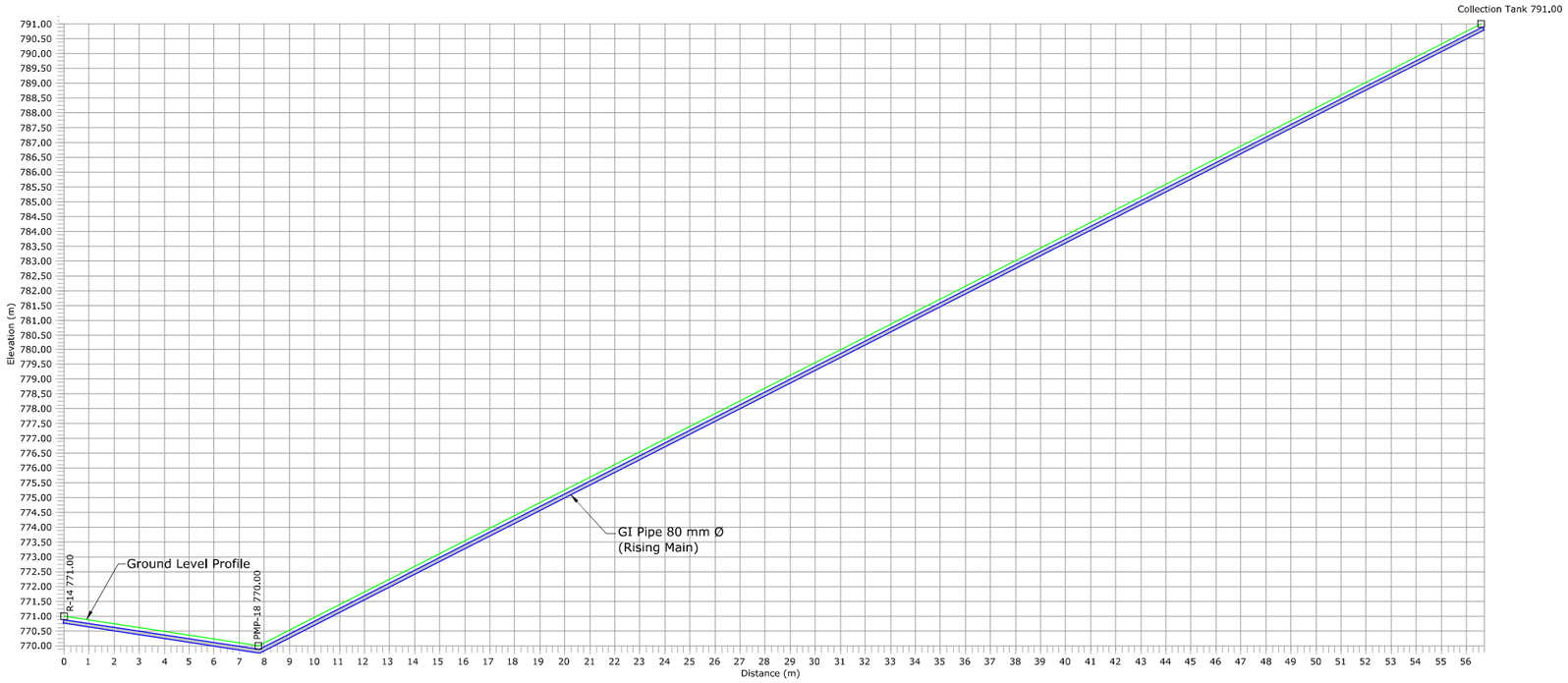

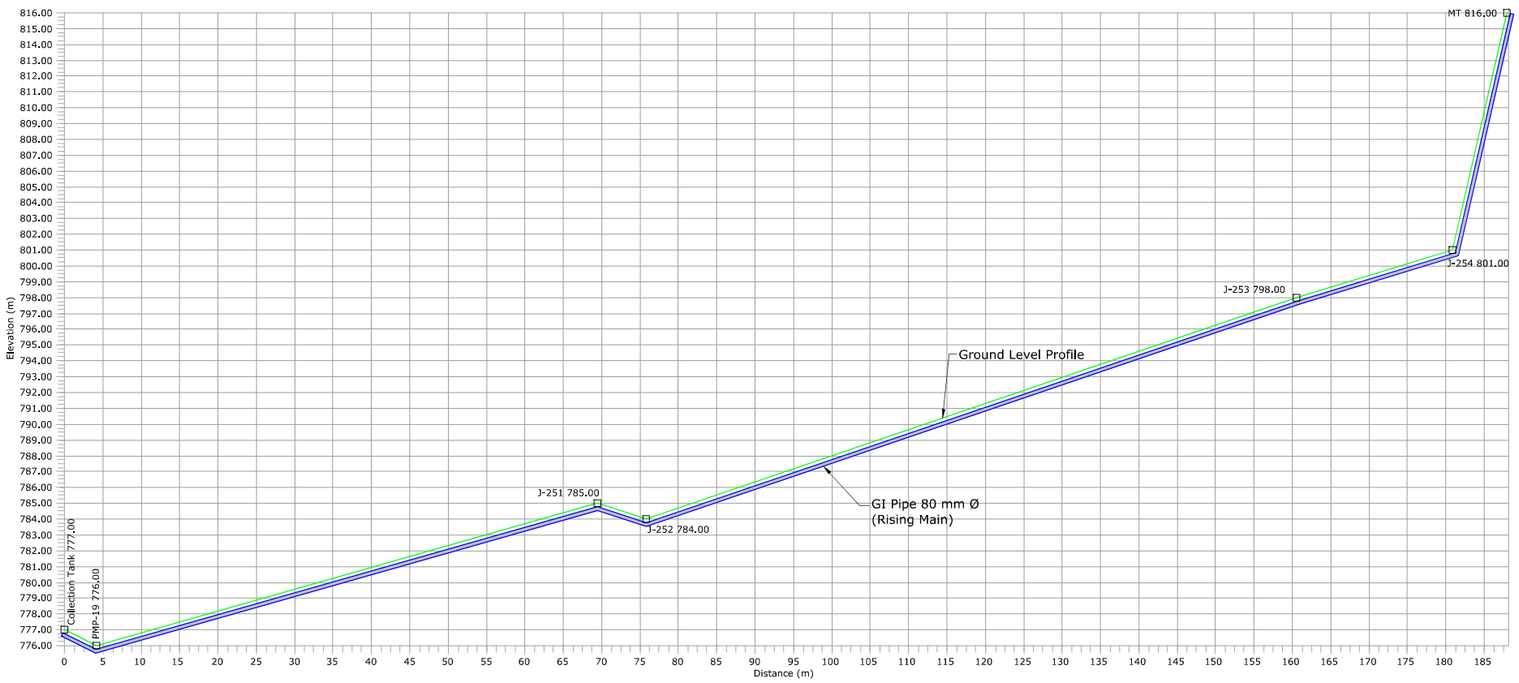

Legend :-

1. Ground Level
2. Rising Main
3. Junction
4. Air Valve
5. Scour Valve

Note:-

1. Air Valves are Considered to be provided at 500 m c/c and at High Points.
2. Scour Valves are Provided at 2000 m c/c Distance.
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FILE NAME: 12503A–CV–38389–Rev–P0

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE–CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L–SECTION– LIS DHEERA–3

SULLAH BLOCK, KANGRA DISTRICT

TATA CONSULTING ENGINEERS LIMITED

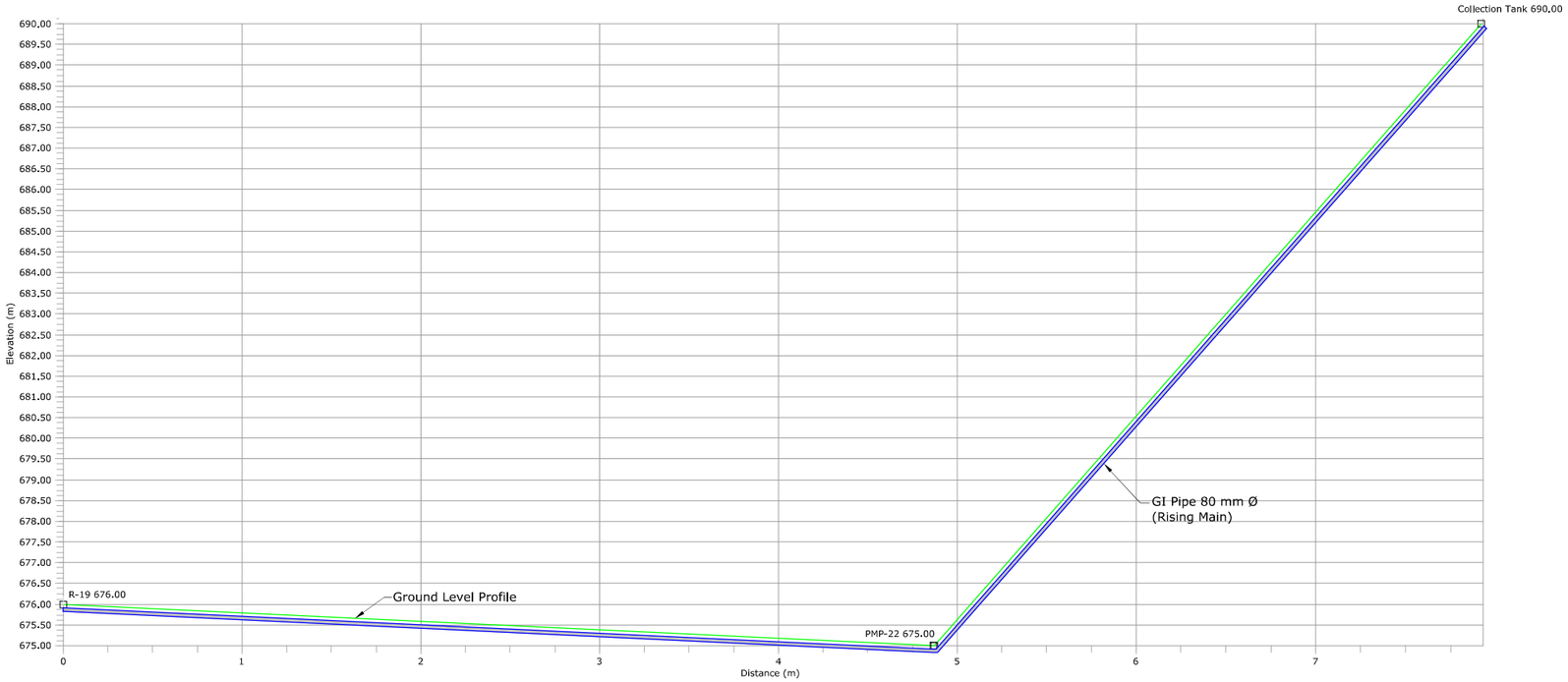
MUMBAI

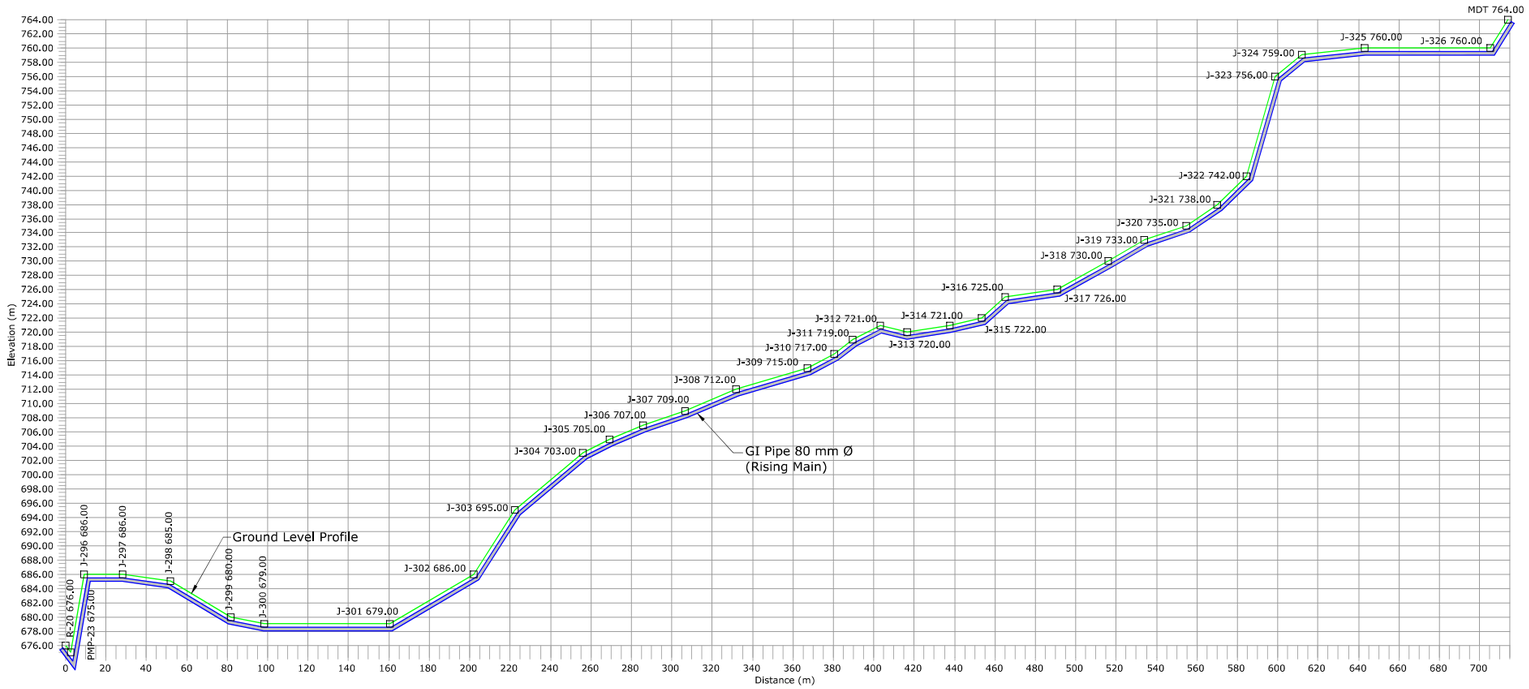
SCALE : NTS	DWG NO. TCE.12503A–CV–3082–WS–38389	ISSUE P0
DC & DISC: DEL–CV		

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1





Legend :-

1. Ground Level
2. Rising Main
3. Junction
4. Air Valve
5. Scour Valve

Note:-

1. Air Valves are Considered to be provided at 500 m c/c and at High Points.
2. Scour Valves are Provided at 2000 m c/c Distance.
3. The Arrangement Shown is Tentative. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

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FILE NAME: 12503A–CV–38390–Rev–P0

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE–CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L–SECTION– LIS CHAINCHADI– KUTHERA
SULLAH BLOCK, KANGRA DISTRICT
(SHEET 01 OF 02)

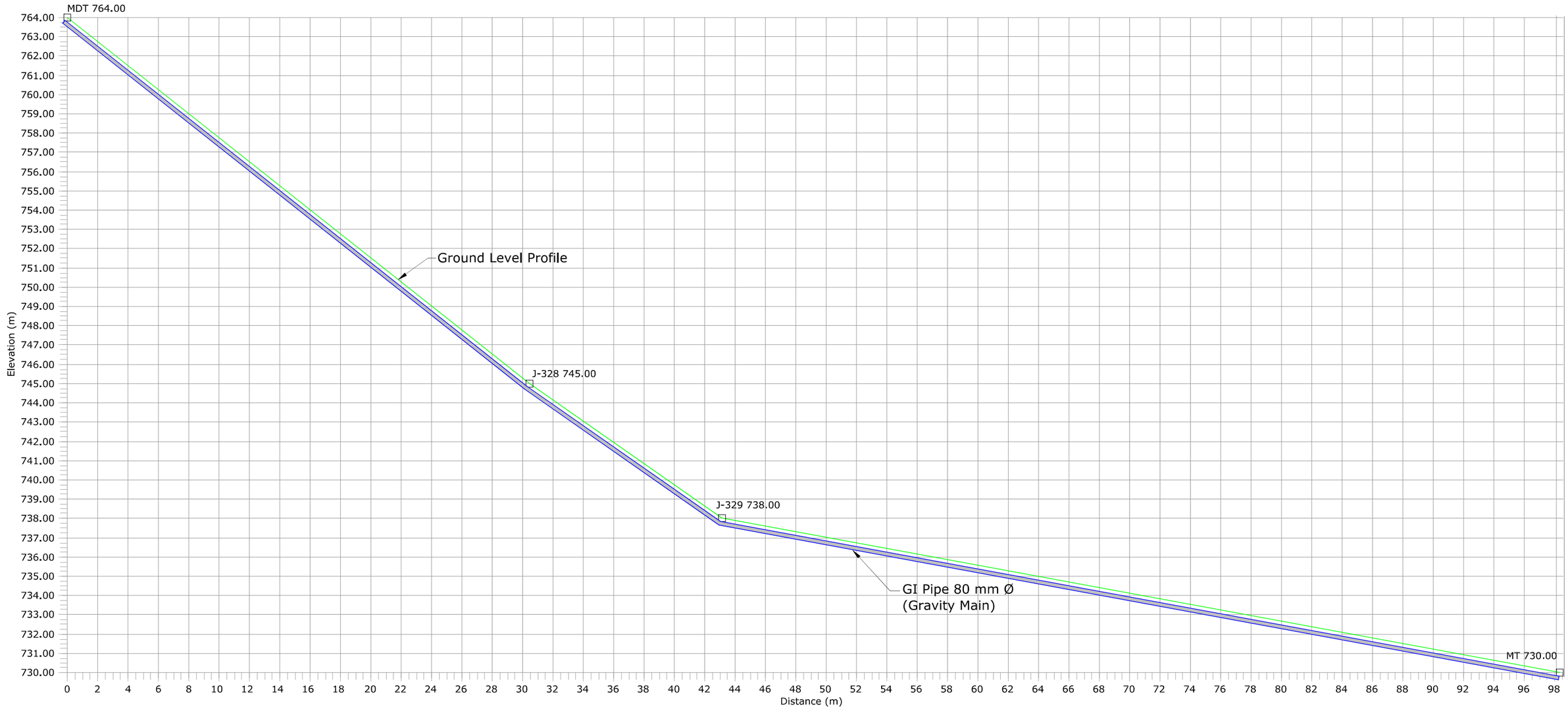
TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A–CV–3082–WS–38390	ISSUE P0
DC & DISC: DEL–CV		

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1



Legend :-

1. Ground Level
2. Rising Main
3. Junction
4. Air Valve
5. Scour Valve

Note:-

1. Air Valves are Considered to be provided at 500 m c/c and at High Points.
2. Scour Valves are Provided at 2000 m c/c Distance.
3. The Arrangement Shown is Tentative. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

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FILE NAME: 12503A-CV-38391-Rev-P0

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE-CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L-SECTION- LIS CHAINCHADI- KUTHERA
SULLAH BLOCK, KANGRA DISTRICT
(SHEET 02 OF 02)

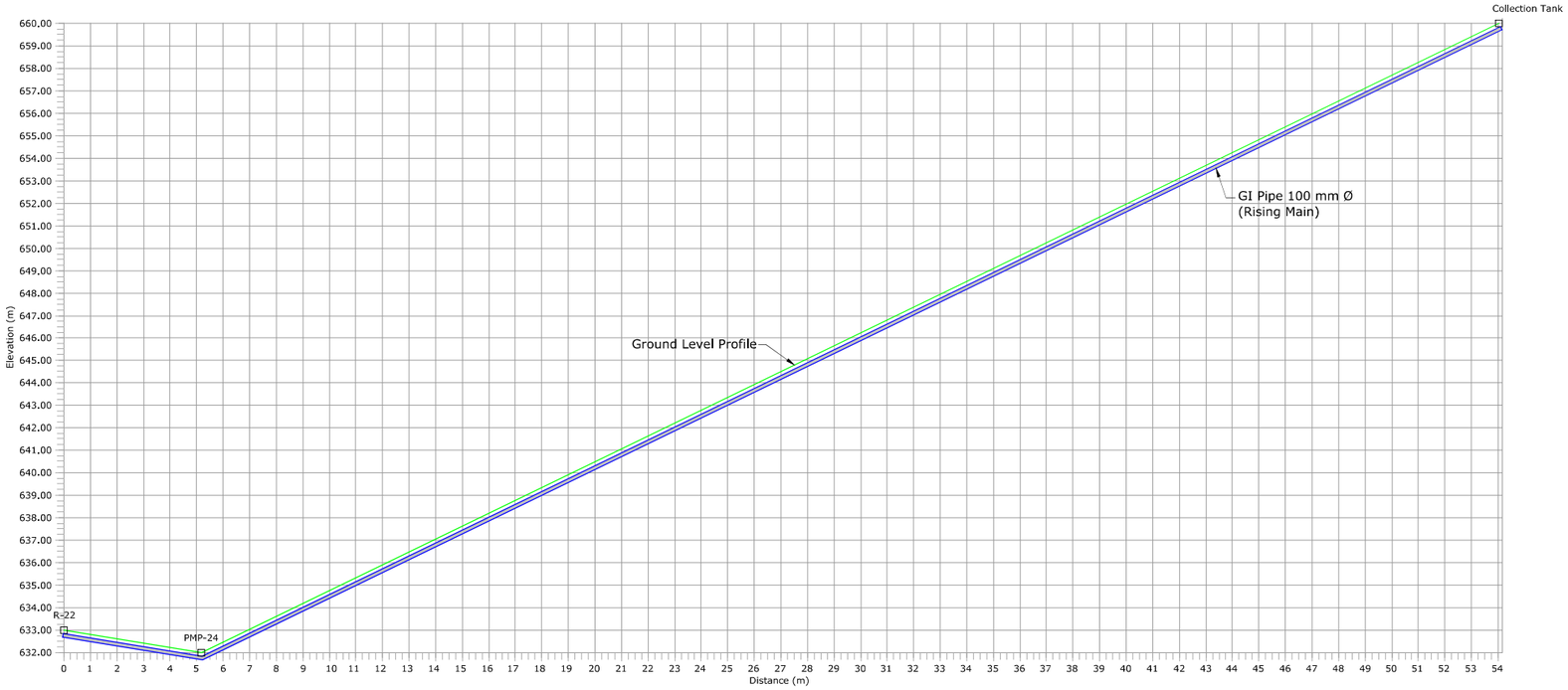
TATA CONSULTING ENGINEERS LIMITED
MUMBAI

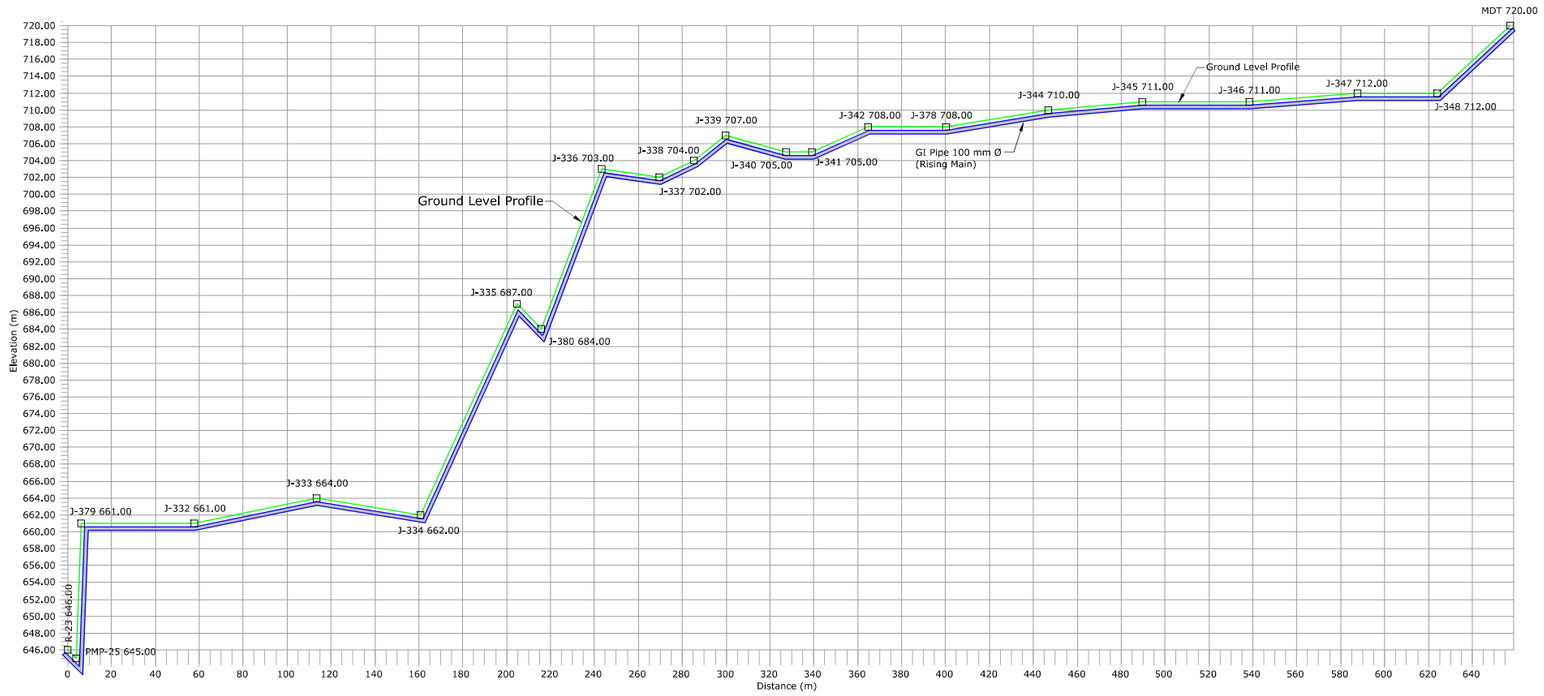
SCALE : NTS	DWG NO. TCE.12503A-CV-3082-WS-38391	ISSUE P0
DC & DISC: DEL-CV		

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1





Legend :-

1. Ground Level
2. Rising Main
3. Junction
4. Air Valve
5. Scour Valve

Note:-

1. Air Valves are Considered to be provided at 500 m c/c and at High Points.
2. Scour Valves are Provided at 2000 m c/c Distance.
3. The Arrangement Shown is Tentative. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

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DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE–CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L–SECTION – LIS PURBA
SULLAH BLOCK, KANGRA DISTRICT
(SHEET 01 OF 02)

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SCALE : NTS	DWG NO. TCE.12503A–CV–3082–WS–38392	ISSUE P0
DC & DISC: DEL–CV		

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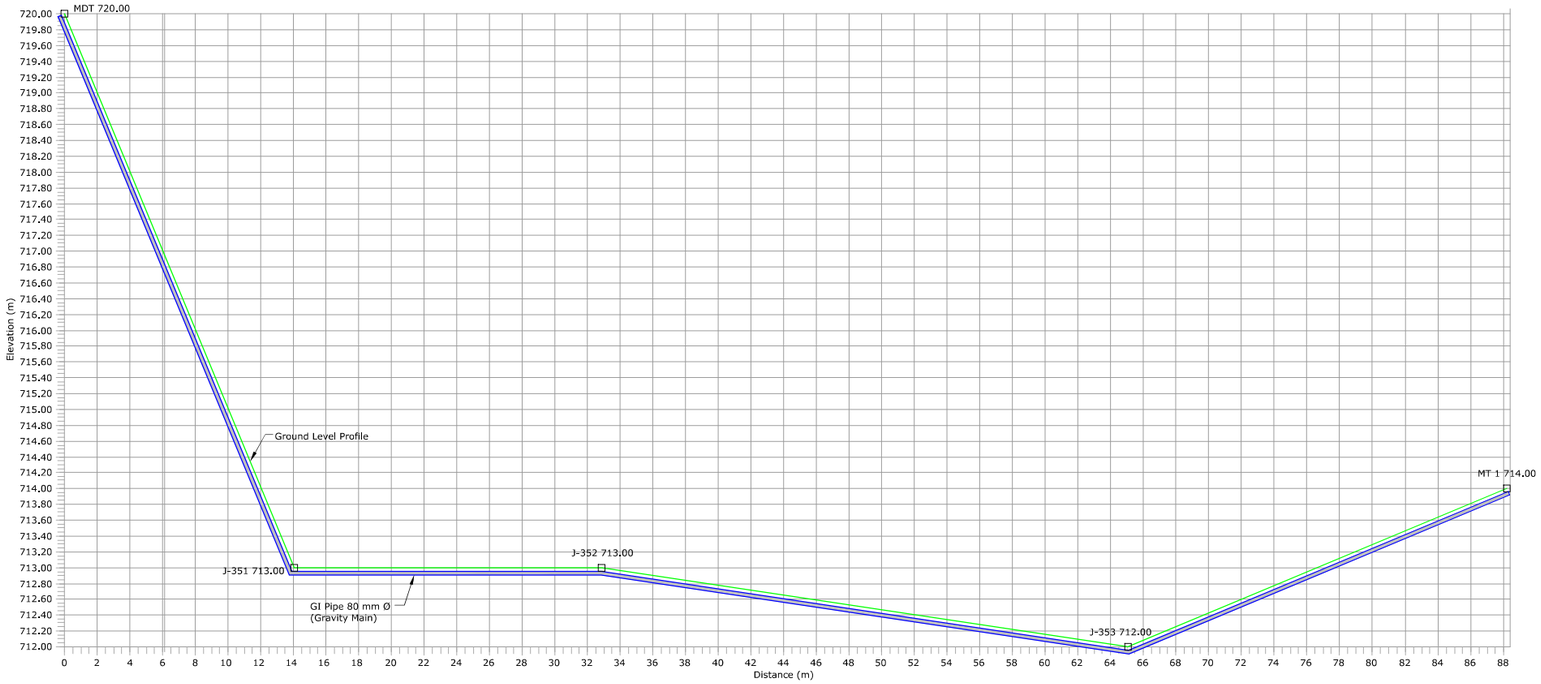
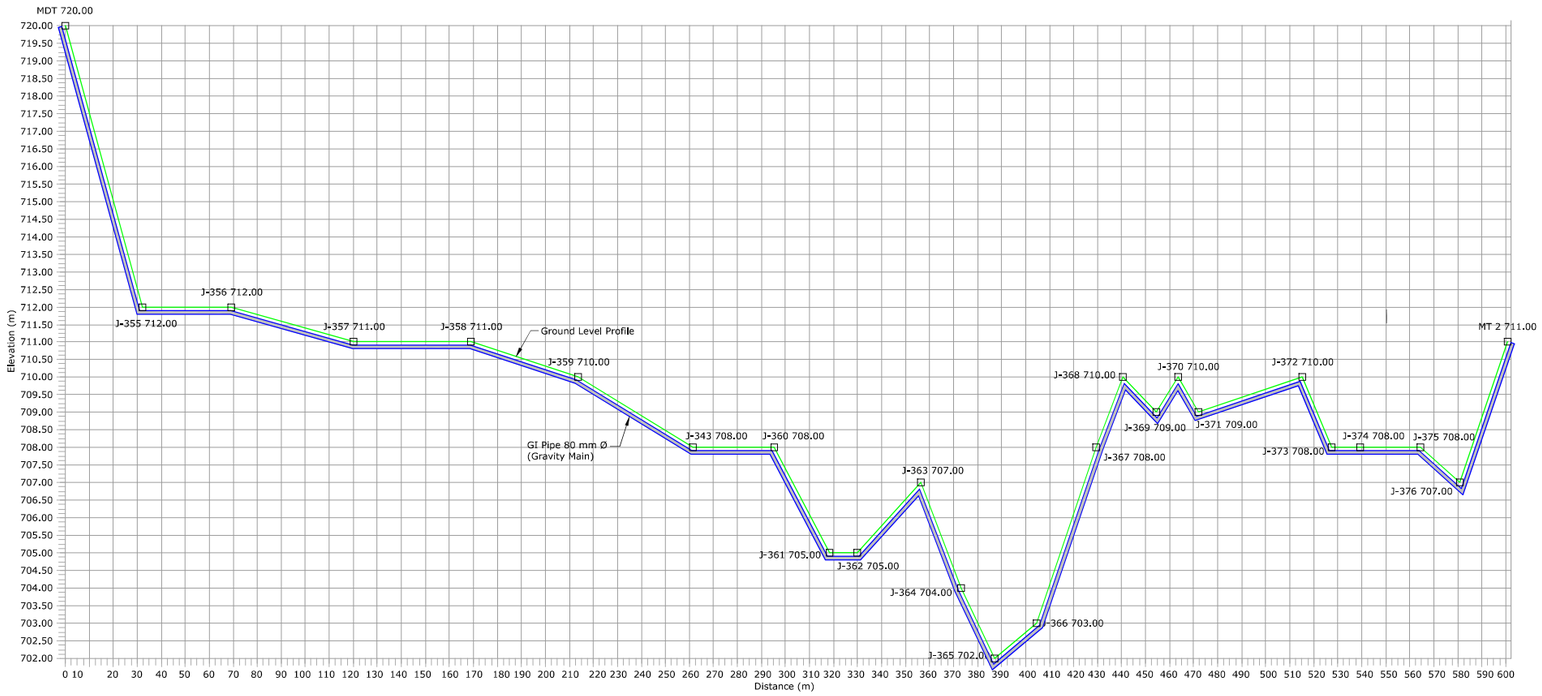
FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1





Legend :-

1. Ground Level
2. Rising Main
3. Junction
4. Air Valve
5. Scour Valve

Note:-

1. Air Valves are Considered to be provided at 500 m c/c and at High Points.
2. Scour Valves are Provided at 2000 m c/c Distance.
3. The Arrangement Shown is Tentative. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

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DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE–CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L–SECTION – LIS PURBA
SULLAH BLOCK, KANGRA DISTRICT
(SHEET 02 OF 02)

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SCALE : NTS	DWG NO. TCE.12503A–CV–3082–WS–38393	ISSUE P0
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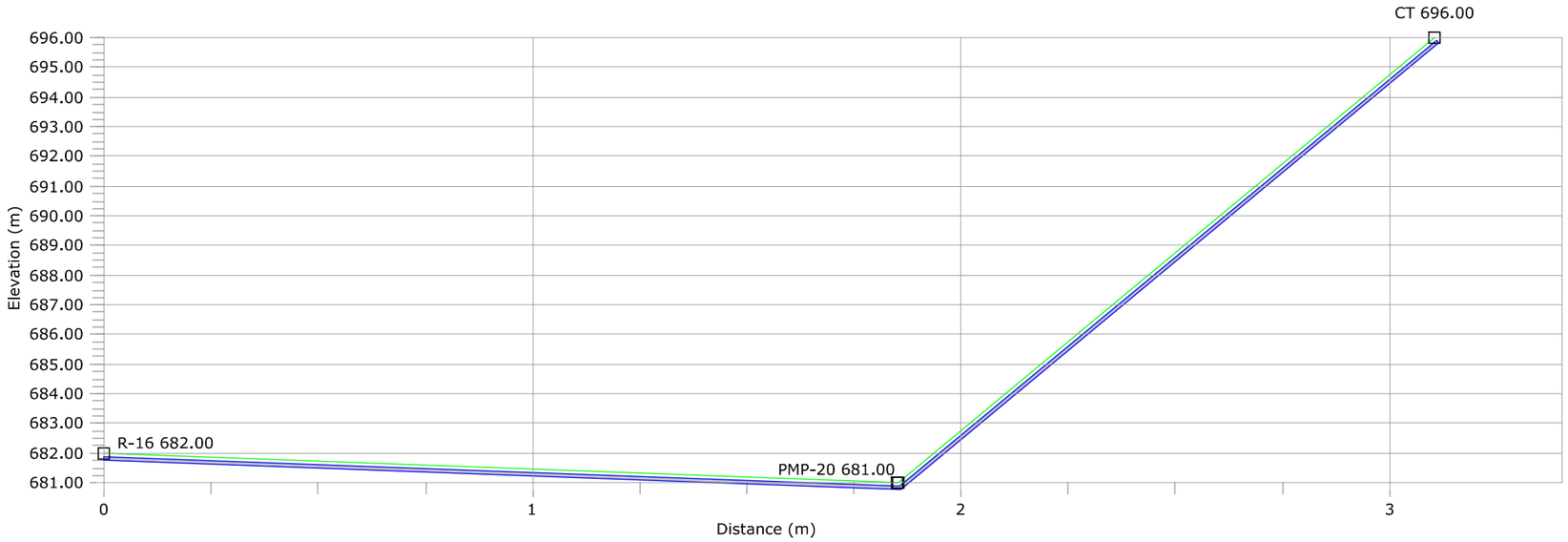
FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1

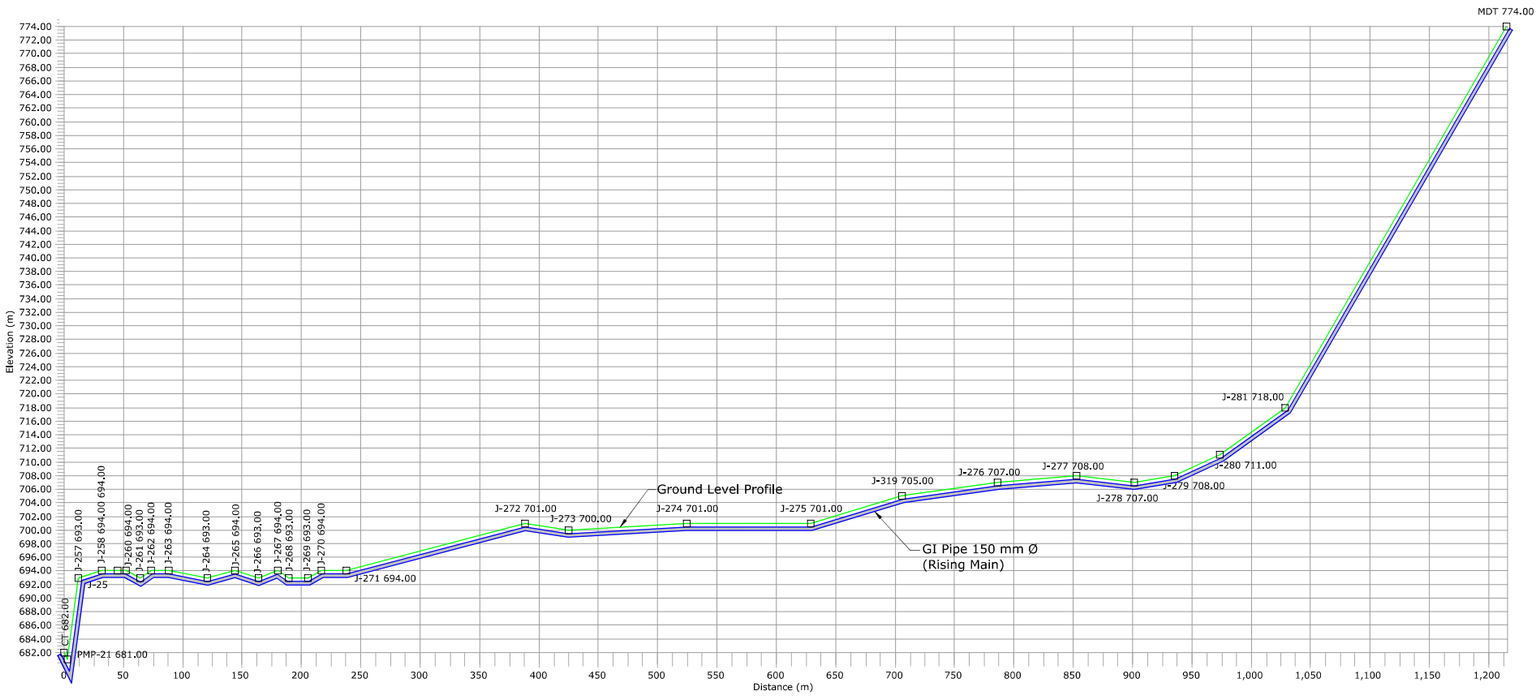


Legend :-

1. Ground Level
2. Rising Main
3. Junction
4. Air Valve
5. Scour Valve

Note:-

1. Air Valves are Considered to be provided at 500 m c/c and at High Points.
2. Scour Valves are Provided at 2000 m c/c Distance.
3. The Arrangement Shown is Tentative. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.



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IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L–SECTION – LIS CHANDAR
SULLAH BLOCK, KANGRA DISTRICT
(SHEET 01 OF 04)

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FILE NAME: 12503A–CV–38394–Rev–P0

TATA CONSULTING ENGINEERS LIMITED
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SCALE : NTS	DWG NO. TCE.12503A–CV–3082–WS–38394	ISSUE P0
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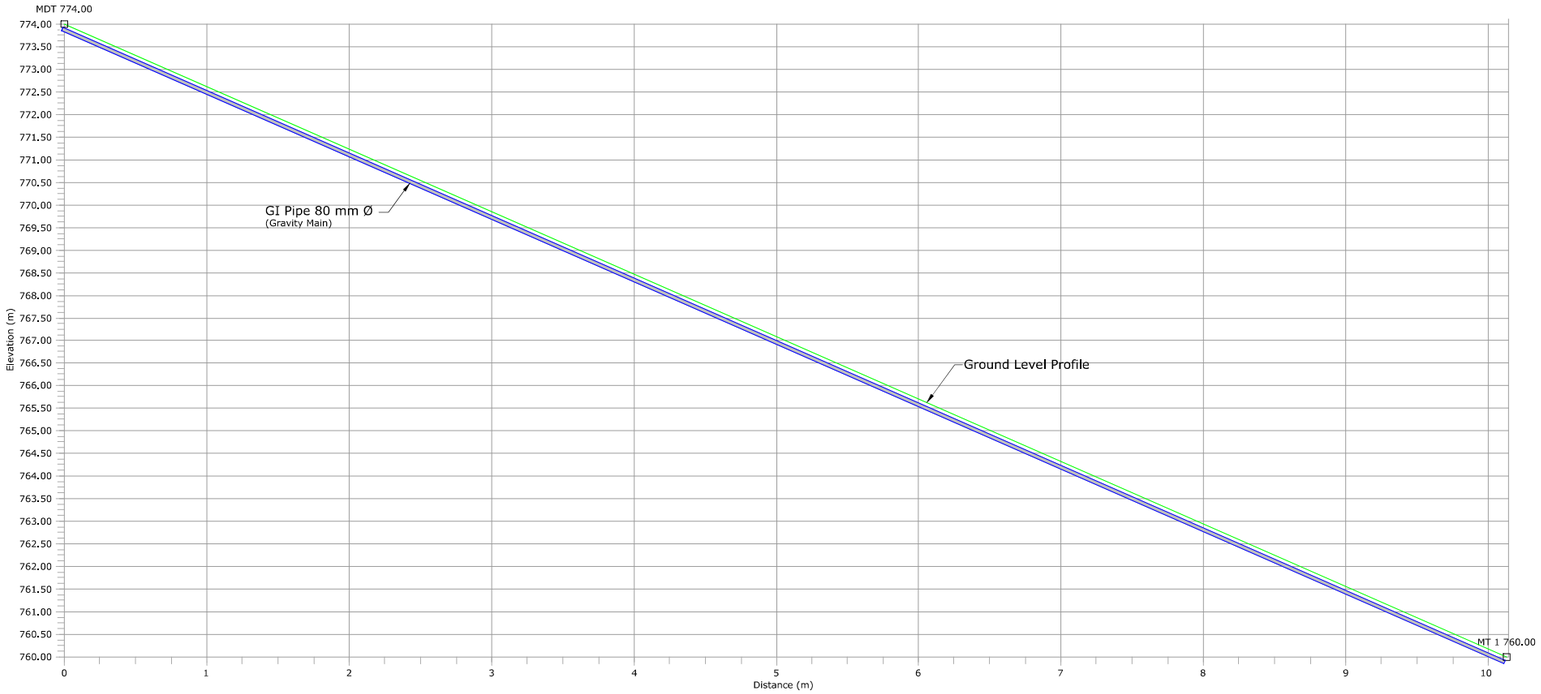
SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1



Legend :-

1. Ground Level
2. Rising Main
3. Junction
4. Air Valve
5. Scour Valve

Note:-

1. Air Valves are Considered to be provided at 500 m c/c and at High Points.
2. Scour Valves are Provided at 2000 m c/c Distance.
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DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE–CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L–SECTION – LIS CHANDAR
SULLAH BLOCK, KANGRA DISTRICT
(SHEET 02 OF 04)

TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS

DC & DISC: DEL–CV

DWG NO. TCE.12503A–CV–3082–WS–38395

ISSUE P0

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

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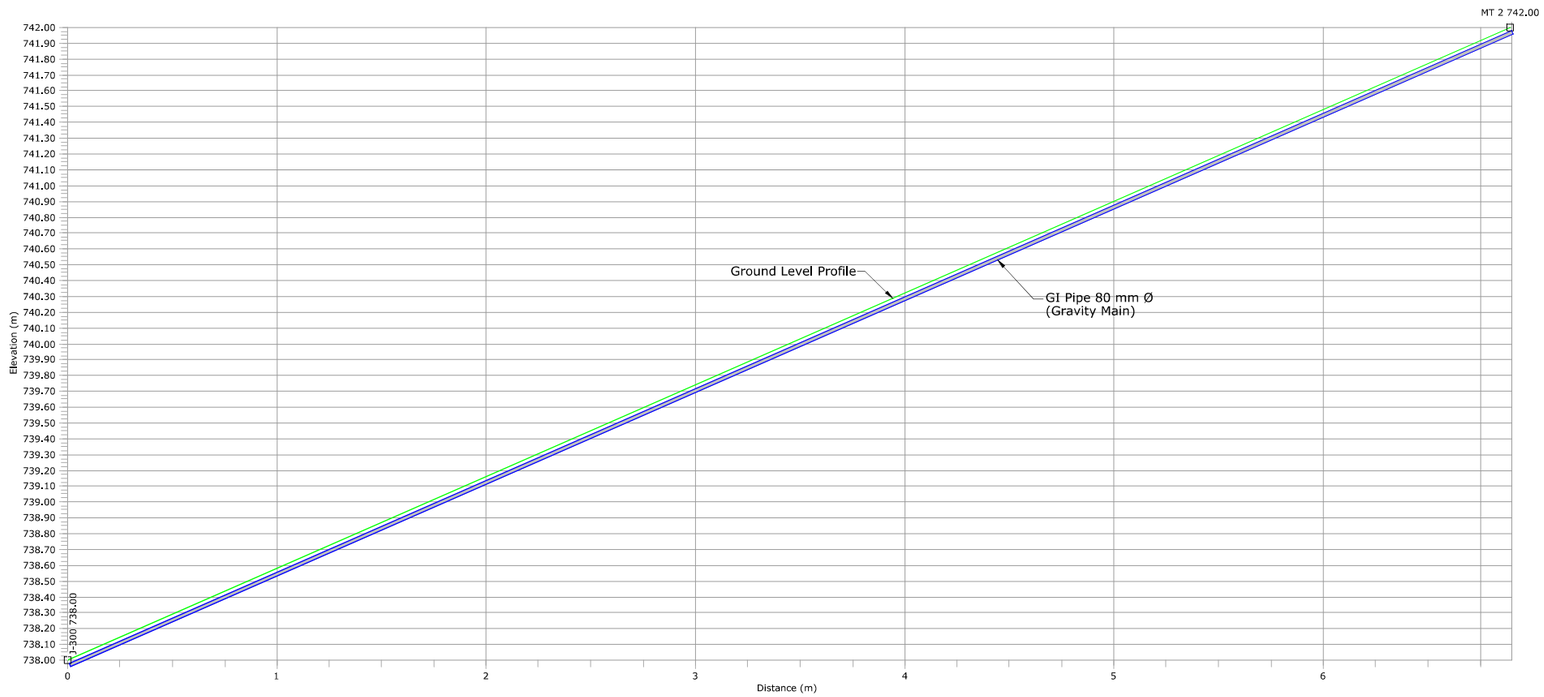

Legend :-

1. Ground Level
2. Rising Main
3. Junction
4. Air Valve
5. Scour Valve

Note:-

1. Air Valves are Considered to be provided at 500 m c/c and at High Points.
2. Scour Valves are Provided at 2000 m c/c Distance.
3. The Arrangement Shown is Tentative. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE–CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L–SECTION – LIS CHANDAR
SULLAH BLOCK, KANGRA DISTRICT
(SHEET 03 OF 04)

TATA CONSULTING ENGINEERS LIMITED
MUMBAI

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FILE NAME: 12503A–CV–38396–Rev–P0

SCALE	DWG NO.	ISSUE
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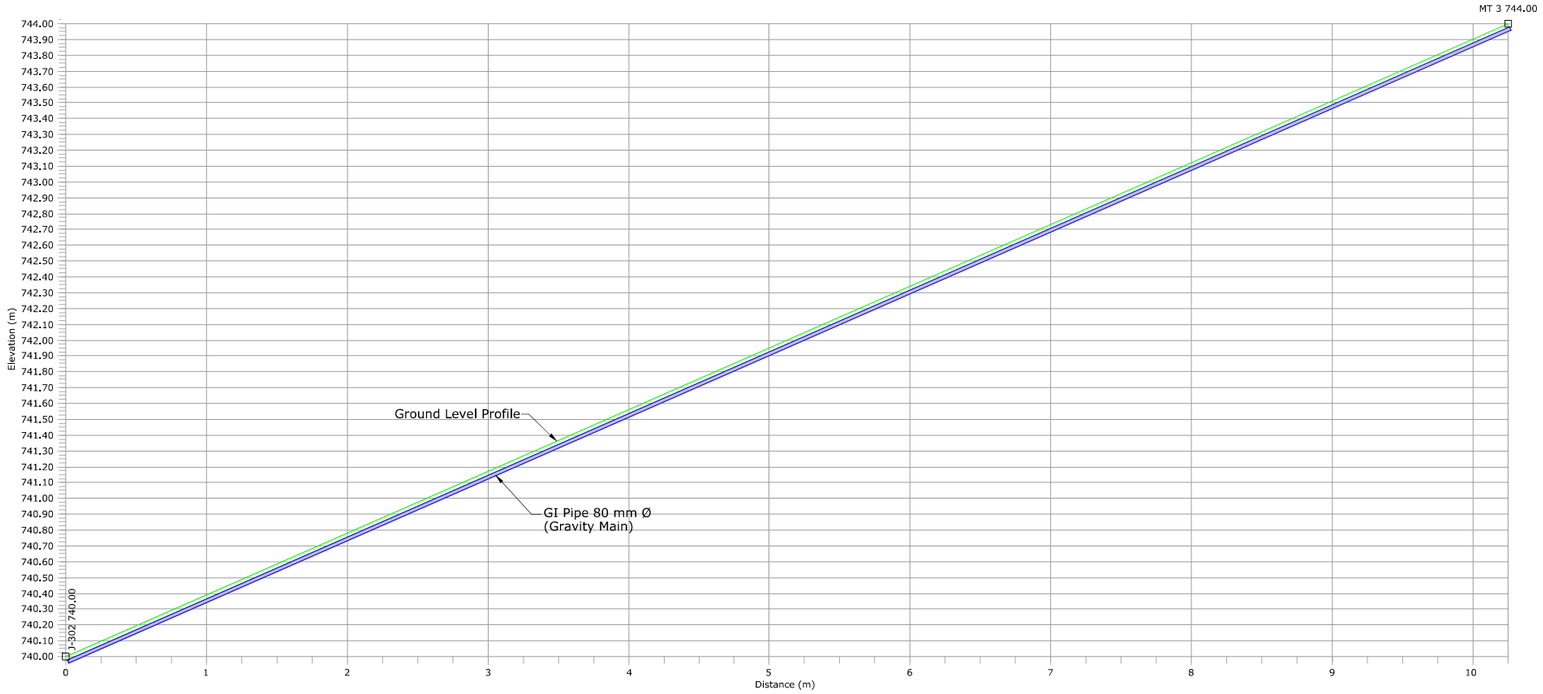
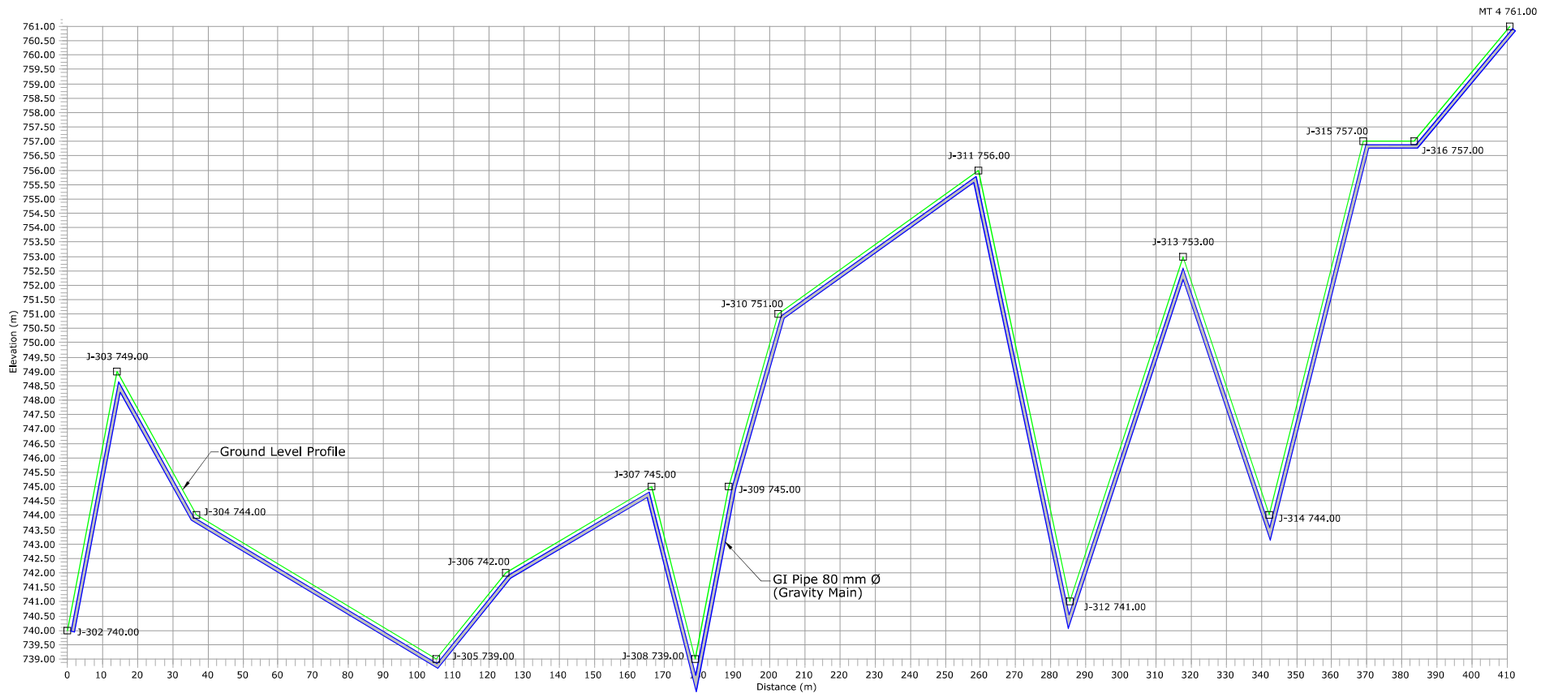
DC & DISC: DEL–CV		

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1





Legend :-

1. Ground Level
2. Rising Main
3. Junction
4. Air Valve
5. Scour Valve

Note:-

1. Air Valves are Considered to be provided at 500 m c/c and at High Points.
2. Scour Valves are Provided at 2000 m c/c Distance.
3. The Arrangement Shown is Tentative. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE–CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L–SECTION – LIS CHANDAR
SULLAH BLOCK, KANGRA DISTRICT
(SHEET 04 OF 04)

SIGN. OF CLIENT:–

JE	AE	EE	SE

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	INITIALS												
	REVISIONS												
P0	SIGN.												02–07–2022
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	REVISIONS												
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd–mm–yyyy)
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FILE NAME: 12503A–CV–38397–Rev–P0

TATA CONSULTING ENGINEERS LIMITED

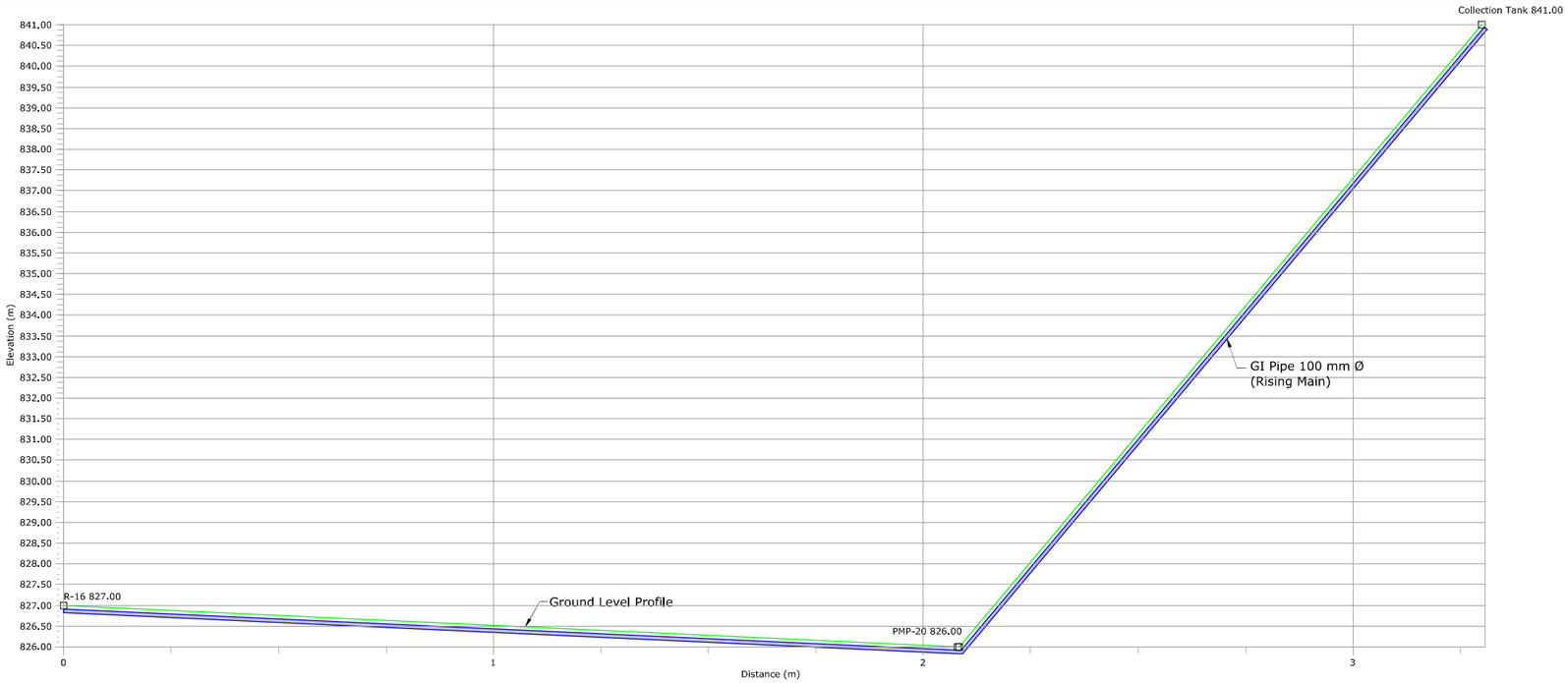
MUMBAI

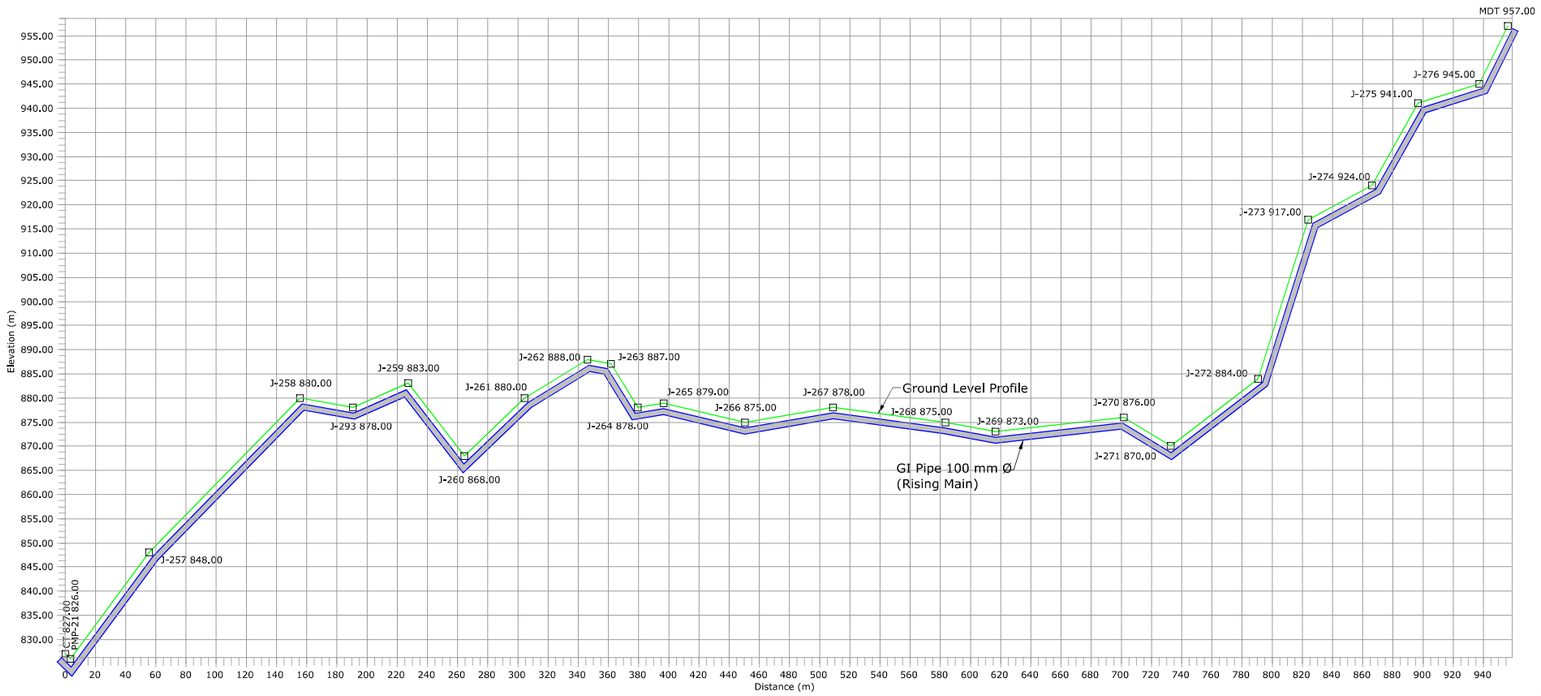
SCALE : NTS	DWG NO. TCE.12503A–CV–3082–WS–38397	ISSUE P0
DC & DISC: DEL–CV		

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1





Legend :-

1. Ground Level
2. Rising Main
3. Junction
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5. Scour Valve

Note:-

1. Air Valves are Considered to be provided at 500 m c/c and at High Points.
2. Scour Valves are Provided at 2000 m c/c Distance.
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DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE–CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L–SECTION – LIS GAGAL KHAS
SULLAH BLOCK, KANGRA DISTRICT
(SHEET 01 OF 02)

SIGN. OF CLIENT:–

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	SIGN.												
	INITIALS												
	REVISIONS												
P0	SIGN.												02–07–2022
	INITIALS	BSN	SKAC	DVB							MK	DK	
	REVISIONS												
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd–mm–yyyy)
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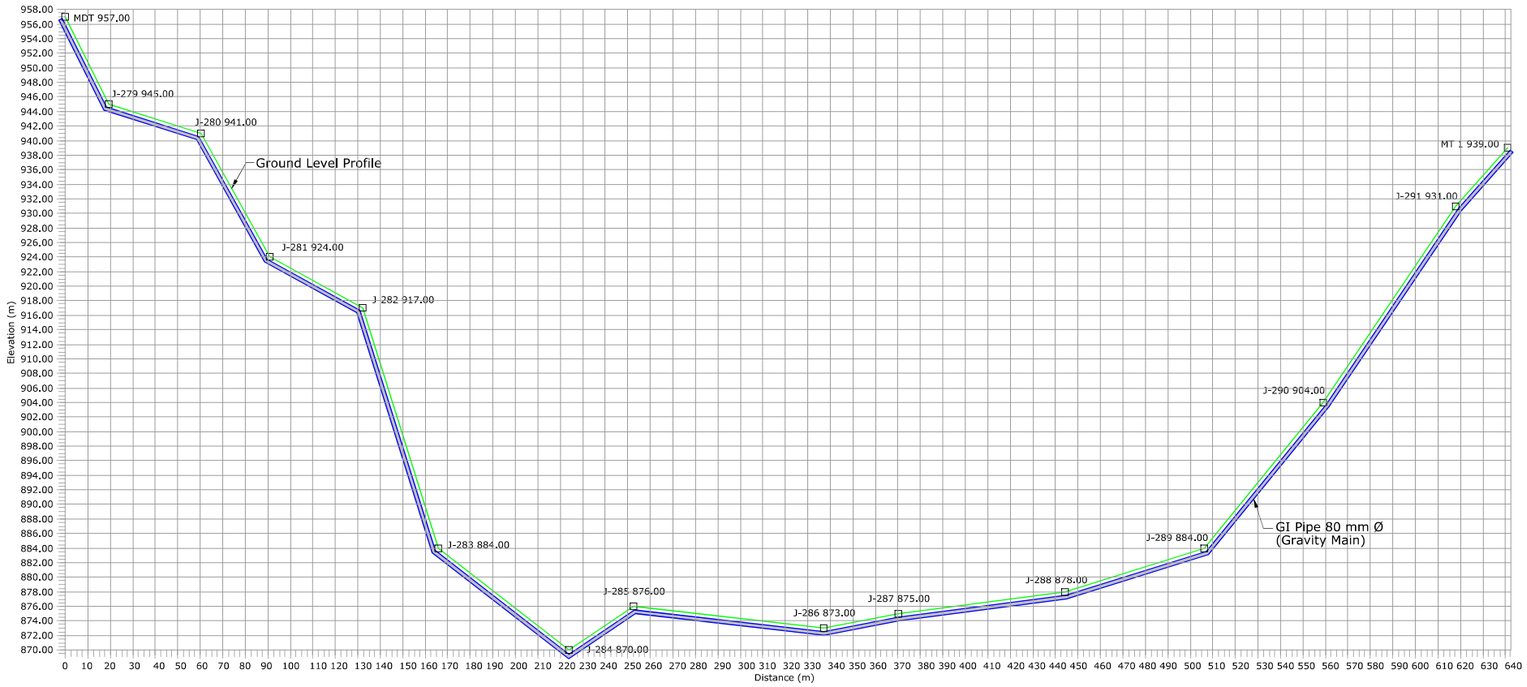
TATA CONSULTING ENGINEERS LIMITED
MUMBAI

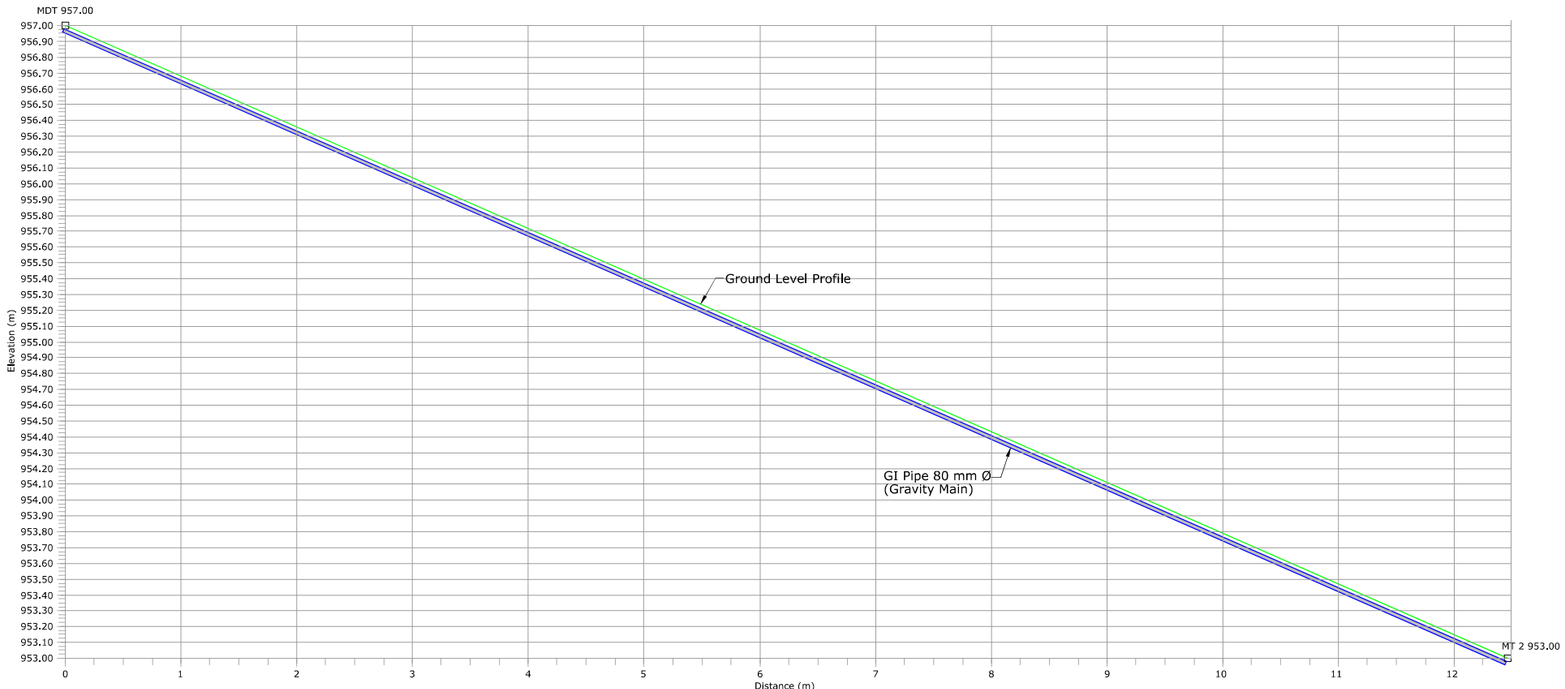
SCALE : NTS	DWG NO. TCE.12503A–CV–3082–WS–38398	ISSUE P0
DC & DISC: DEL–CV		

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1





Legend :-

1. Ground Level
2. Rising Main
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4. Air Valve
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Note:-

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FILE NAME: 12503A-CV-38399-Rev-P0

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE-CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L-SECTION - LIS GAGAL KHAS
SULLAH BLOCK, KANGRA DISTRICT
(SHEET 02 OF 02)

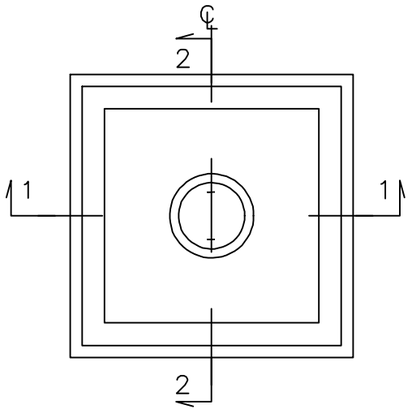
TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A-CV-3082-WS-38399	ISSUE P0
DC & DISC: DEL-CV		

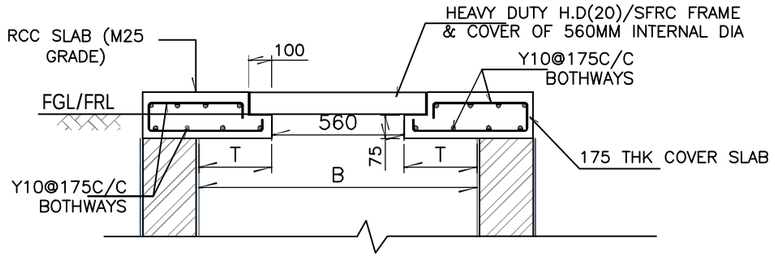
SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

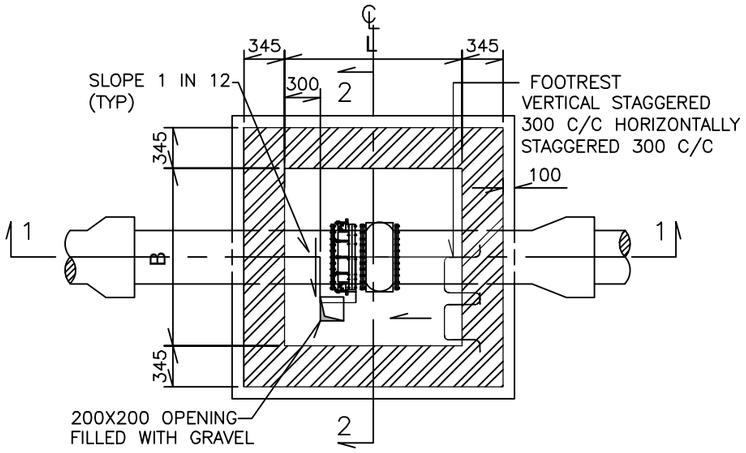
TCE FORM NO. 093 R1



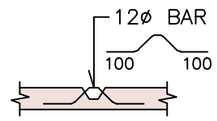
TOP PLAN



DETAIL A



SECTIONAL PLAN



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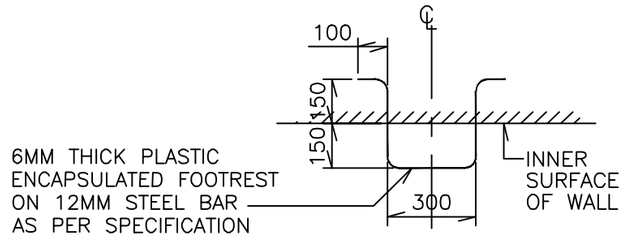

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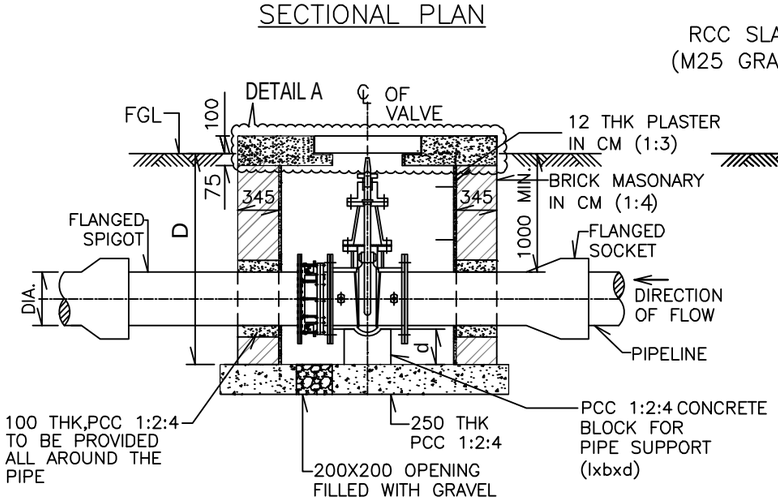
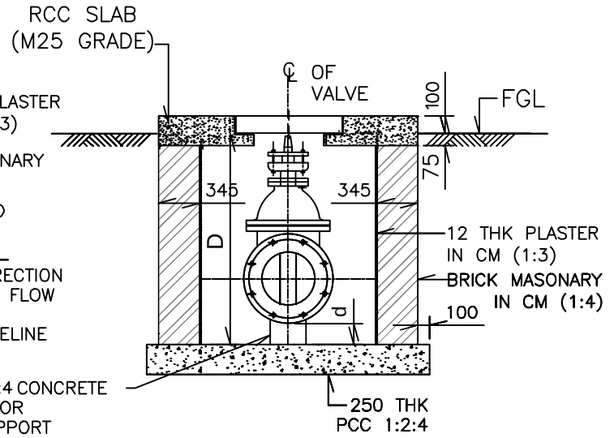


SECTION 1–1



SECTION 2–2

LEGEND

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

NOTES:

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/cm^2 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.

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

ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd-mm-yyyy)
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	REVISIONS												
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FILE NAME 12503A–CV–30581–Rev–P0

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

DC & DISC: DEL–CV

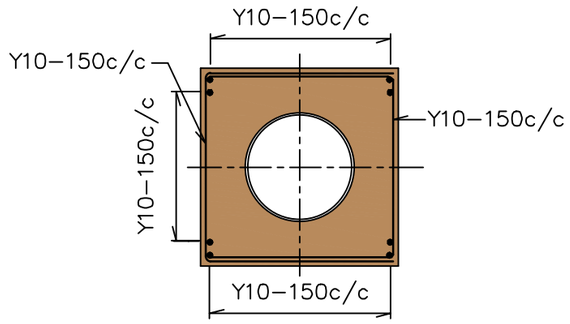
DWG NO. TCE.12503A–CV–3082–WS–30581

ISSUE P0

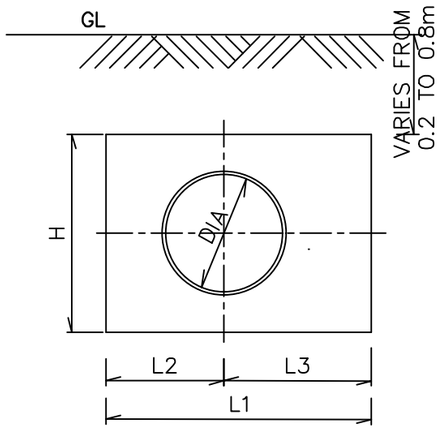
SIZE–A3

FILE NAME: F–093–Rev–R1.DWG

TCE FORM NO. 093 R1



DETAILS OF CONCRETE BED & ENCASEMENT OF PIPE



SECTION 1–1

TABLE

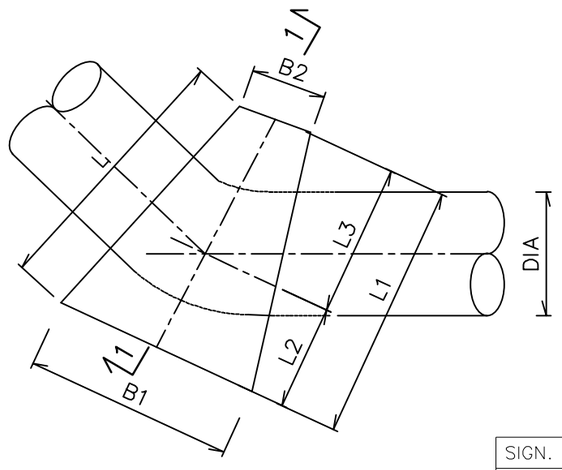
INTERNAL DIAMETER OF PIPE (mm)	ANGLE OF BEND	DESIGN PRESSURE (kg/m^2)	SOIL COVER OVER PIPE Ds (mm)	H (m)	L1 (m)	L2 (m)	L3 (m)	L (m)	B1 (m)	B2 (m)
100	90°	4.35	1000	0.70	0.75	0.40	0.35	0.77	0.70	0.35
100	45°	4.35	1000	0.60	0.55	0.30	0.25	0.57	0.60	0.30
100	22.5°	4.35	1000	0.45	0.45	0.25	0.20	0.46	0.50	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 AGGRAGATES 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



TYPICAL THRUST BLOCK

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	INITIALS													
	REVISIONS													
P0	SIGN.													
	INITIALS	SM	MJ	DVP							NMS	NMS	15-04-2022
	REVISIONS													
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd-mm-yyyy)
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SIGN. OF CLIENT:–

JE	AE	EE	SE

PURPOSE : FOR TENDER ONLY

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FILE NAME 12503A–CV–30582–Rev–P0

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

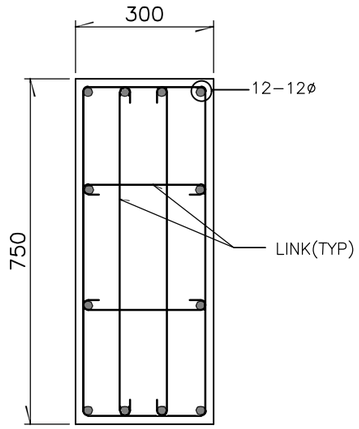
TYPICAL DETAILS OF THRUST BLOCK

TATA CONSULTING ENGINEERS LIMITED

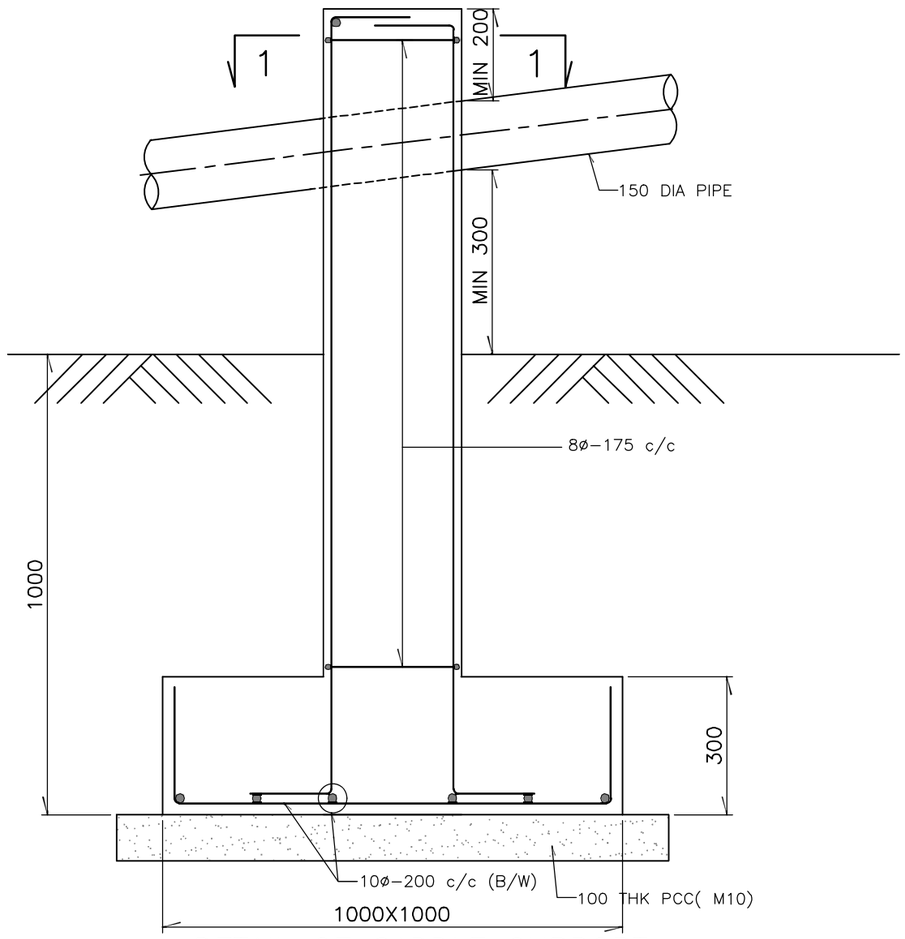
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A–CV–3082–WS–30582	ISSUE P0
DC & DISC: DEL–CV		

SIZE:A3



SEC 1-1



DETAIL OF SADDLE SUPPORT

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.												
	INITIALS												
	REVISIONS												
P0	SIGN.												
	INITIALS	SM	LD/AD	DVP						NMS	NMS	15-04-2022
	REVISIONS												
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME		PE/PM	APPD	DATE (dd-mm-yyyy)
					CLEARED							

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SIGN. OF CLIENT:-

JE	AE	EE	SE

PURPOSE : FOR TENDER ONLY

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FILE NAME 12503A-CV-30583-Rev-P0

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

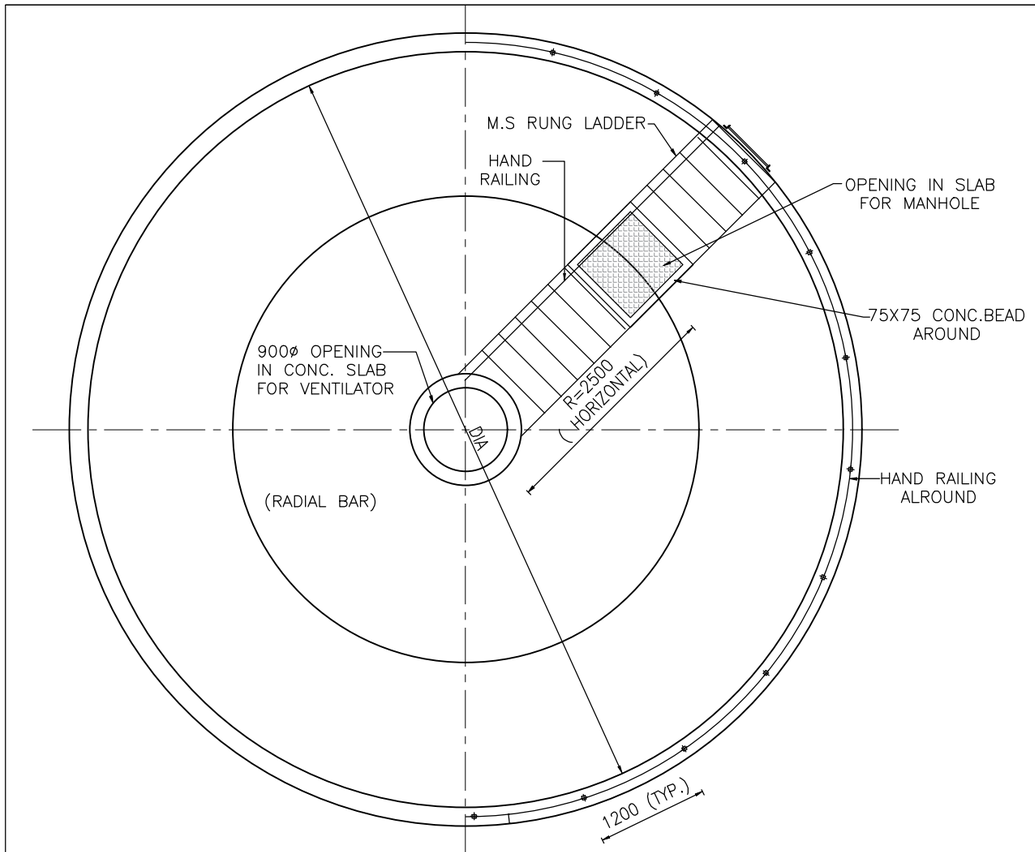
TYPICAL DETAIL OF SADDLE SUPPORT

TATA CONSULTING ENGINEERS LIMITED

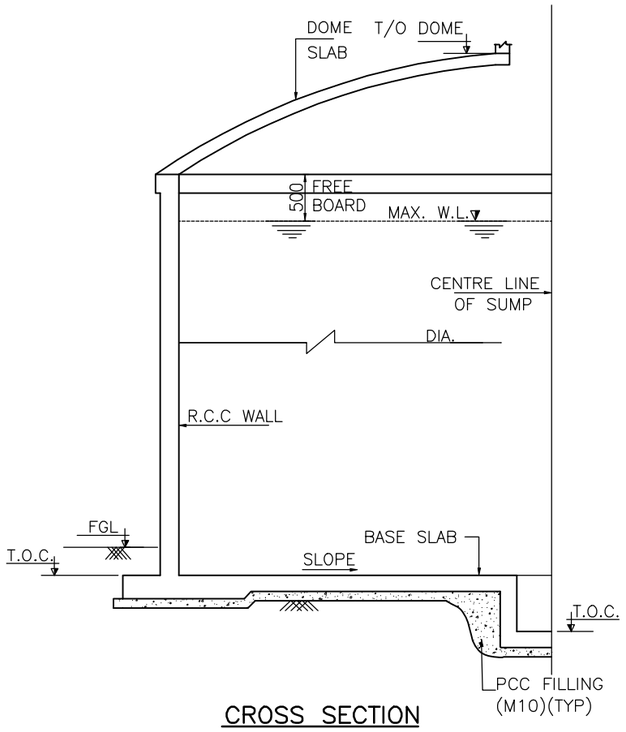
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A-CV-3082-RC-30583	ISSUE P0
DC & DISC : DEL-CV		

SIZE-A3



PLAN



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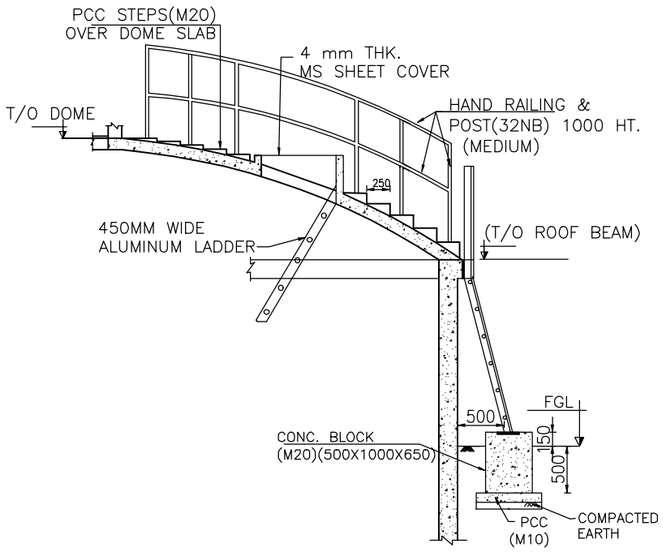

DET.OF STEPS AND M.S.RUNG LADDER

LEGEND

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

NOTES

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.
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9. THE SPACING OF CONSTRUCTION JOINT SHALL NOT BE MORE THAN 1.20M.

	SIGN.													
	INITIALS													
	REVISIONS													
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	INITIALS	AN	AD	DVP							NMS	NMS	15-04-2022	
	REVISIONS													
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd-mm-yyyy)	
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FILE NAME 12503A–CV–30584–Rev–P0

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

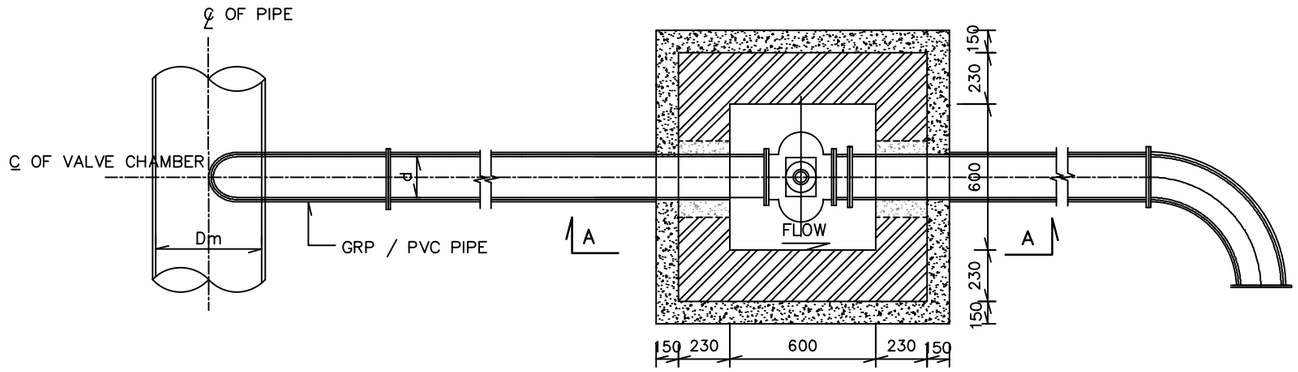
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A–CV–3082–GA–30584	ISSUE P0
DC & DISC: DEL–CV		

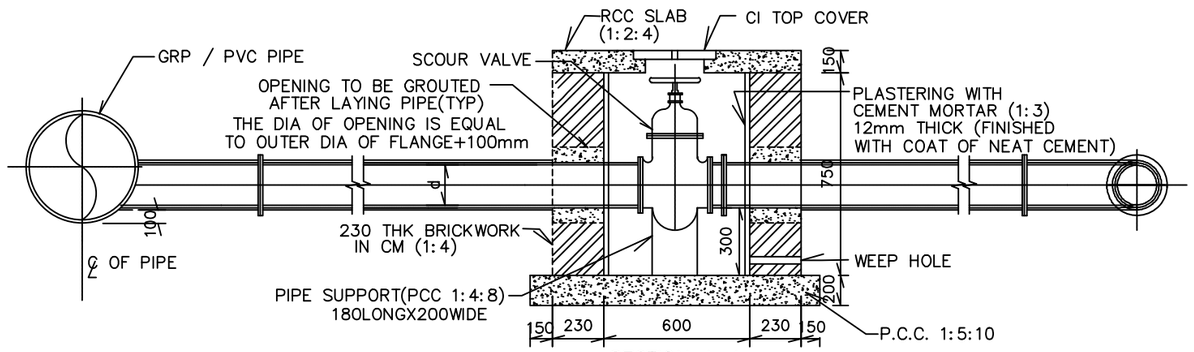
SIZE–A3

FILE NAME: F–093–Rev–R1.DWG

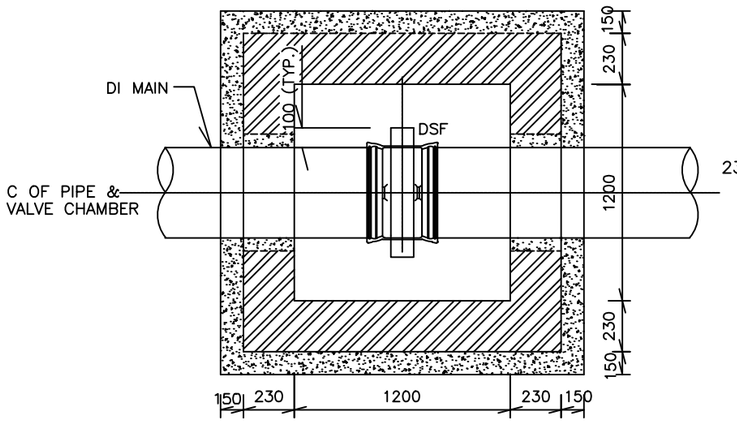
TCE FORM NO. 093 R1



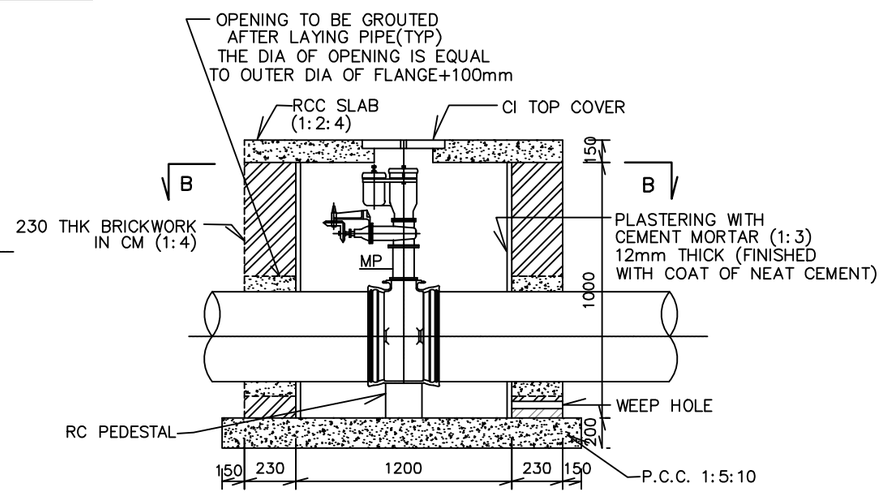
PLAN OF AIR VALVE CHAMBER



SECTION A–A



PLAN OF SCOUR VALVE CHAMBER



SECTION B–B

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
℄	———	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.

	SIGN.													
	INITIALS													
	REVISIONS													
P0	SIGN.													
	INITIALS	SM	MJ	DVP							NMS	NMS		15-04-2022
	REVISIONS													
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd-mm-yyyy)	
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FILE NAME 12503A–CV–30585–Rev–P0

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

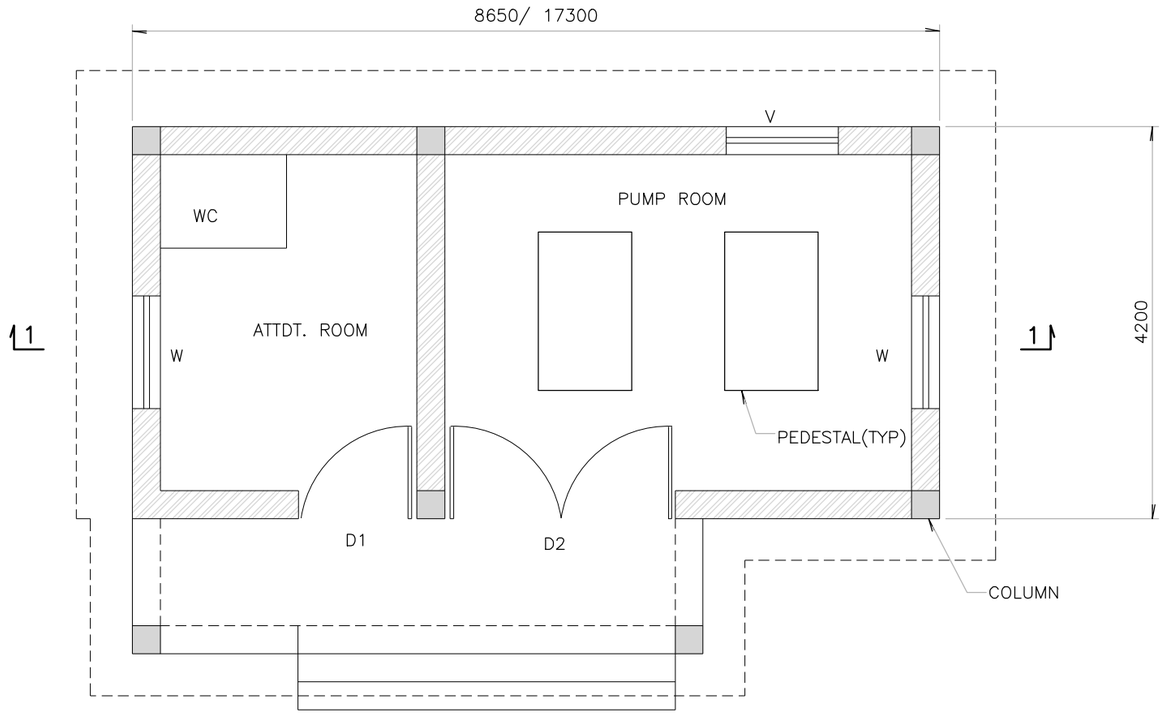
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A–CV–3082–WS–30585	ISSUE P0
DC & DISC: DEL–CV		

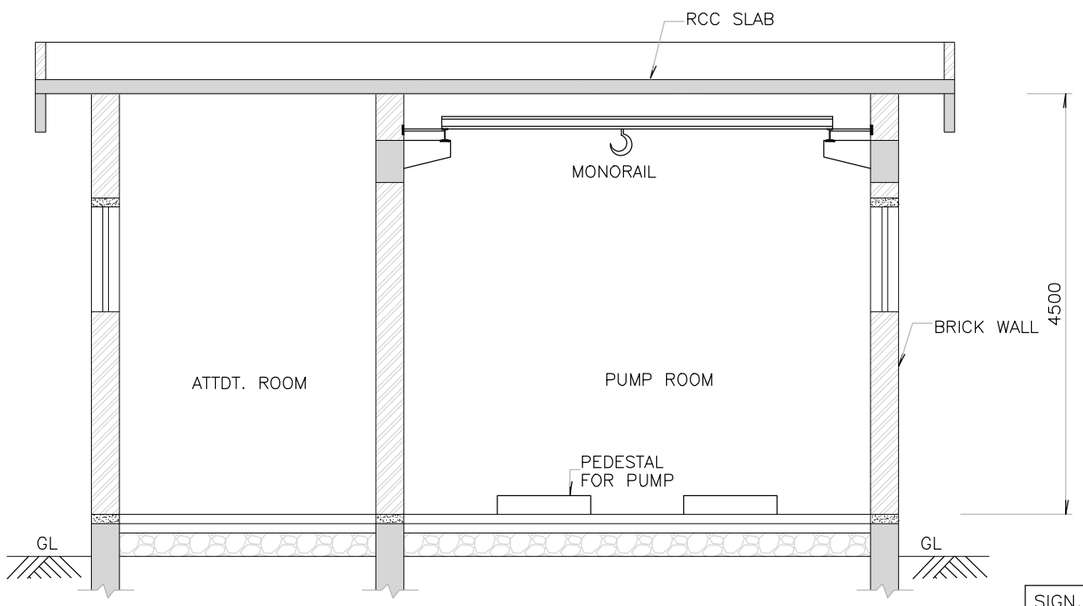
SIZE–A3

FILE NAME: F–093–Rev–R1.DWG

TCE FORM NO. 093 R1



PLAN



SECTION 1–1

LEGEND

ATTDT. — — — ATTENDANT
RCC — — — REINFORCED CEMENT CONCRETE
TYP — — — TYPICAL
GL — — — GROUND LEVEL

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 M20 WITH MAXIMUM 20mm DOWNGRADED AGGREGATES CONFORMING TO IS 456.
4. SAFE BEARING CAPACITY OF SOIL IS TAKEN AS 10T/Sq.m. AT FOUNDING LEVEL AND SAME IS TO BE CONFIRMED AT SITE BEFORE EXECUTION.
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8. THE SPACING OF CONSTRUCTION JOINT SHALL NOT BE MORE THAN 1.20M.

P1	SIGN.												08-06-2022
	INITIALS	SM	AD	DVB							MK	DK	
	REVISIONS												
P0	SIGN.												15-04-2022
	INITIALS	SM	LD/AD	DVB							MK	DK	
	REVISIONS												
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd-mm-yyyy)
					CLEARED								

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FILE NAME 12503A–CV–30586–Rev–P1

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TYPICAL DETAILS OF PUMP HOUSE

TATA CONSULTING ENGINEERS LIMITED

MUMBAI

SCALE : NTS

DC & DISC : DEL–CV

DWG NO. TCE.12503A–CV–3082–GA–30586

ISSUE P1

SIZE–A3

FILE NAME: F-093-Rev-R1.DWG

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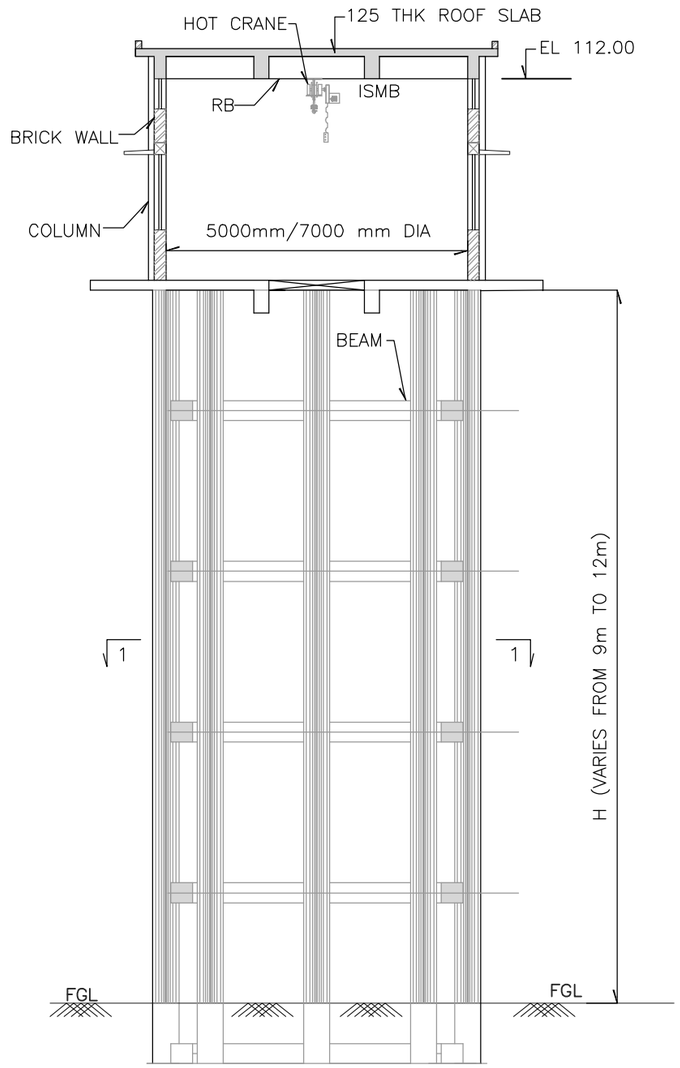

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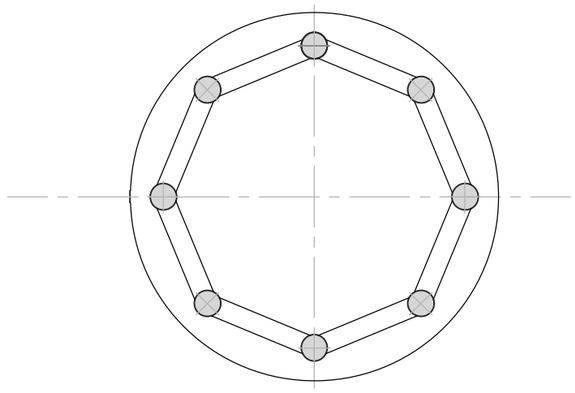

SECTIONAL PLAN
SEC 1–1

LEGEND:

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

NOTES:

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P1	SIGN.												27-05-2022
	INITIALS	SM	LD/AD	DVP							NMS	NMS	
	REVISIONS	AS PER CLIENT OBSERVATION											
P0	SIGN.												15-04-2022
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	REVISIONS												
ISSUE		DRN	DSN	CHD	CV	EL	IC	ME			PE/PM	APPD	DATE (dd-mm-yyyy)
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FILE NAME 12503A–CV–30587–Rev–P1

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

GENERAL ARRANGEMENT OF INTAKE WELL

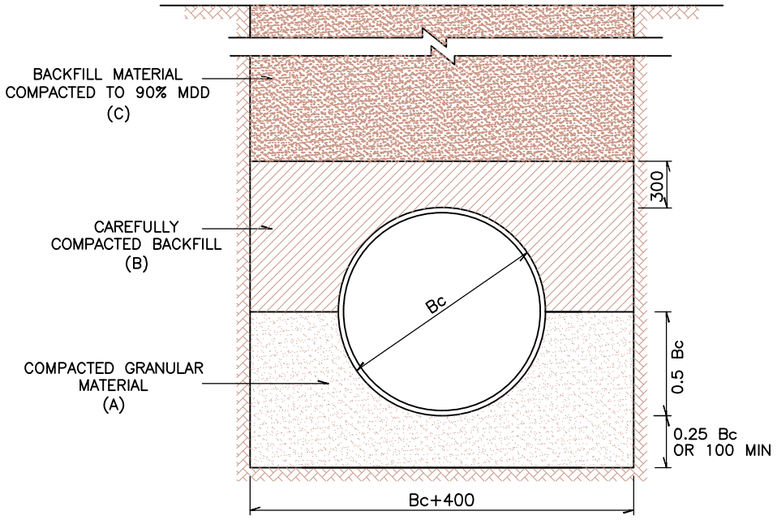
TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A–CV–3082–GA–30587	ISSUE P1
DC & DISC: DEL–CV		

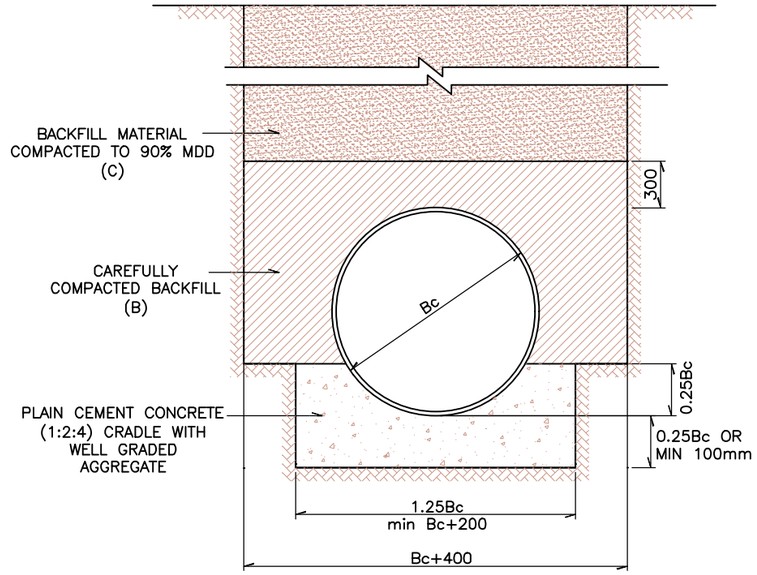
SIZE–A3

FILE NAME: F–093–Rev–R1.DWG

TCE FORM NO. 093 R1



GRANULAR BEDDING (GRB)
CLASS–B



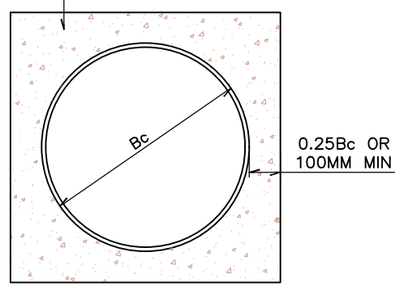
PLAIN CEMENT CONCRETE BEDDING (PCCB)
CLASS–Ab

LEGEND:

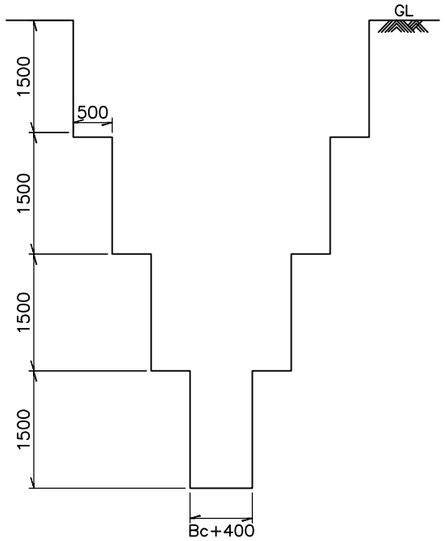
GL	GROUND LEVEL
C.M.	CEMENT MORTAR
TYP	TYPICAL
MAX	MAXIMUM
DIA	DIAMETER
THK	THICK
MS	MILD STEEL
Bc	OUTER DIAMETER OF PIPE
d	INTERNAL DIAMETER OF PIPE

NOTES:

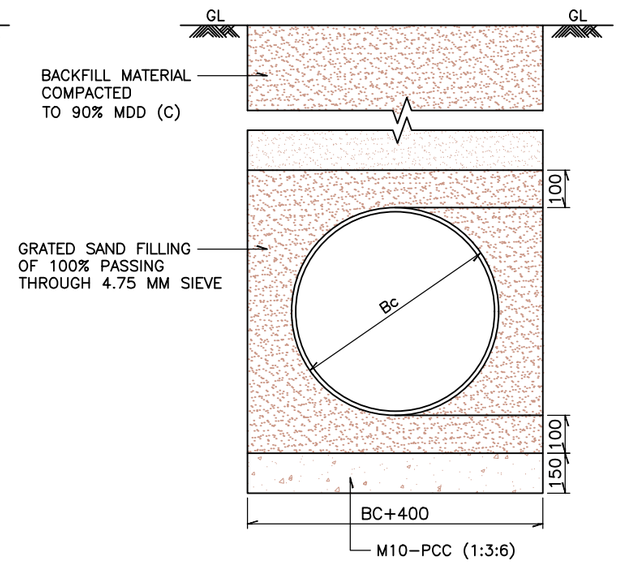
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED.
2. INTERNAL DIAMETER OF PIPE = D
3. OUTER DIAMETER OF PIPE = Bc.
4. BACKFILLING WITH APPROVED SELECTED EXCAVATED MATERIAL AND COMPACTION SHALL BE DONE BY HAND OR APPROVED MECHANICAL METHODS IN LAYERS OF 150mm WITH SPECIAL CARE TO AVOID 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



CONCRETE ENCASEMENT



TYPICAL SECTION OF TRENCH



SAND BEDDING (SB) CLASS–S

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TYPICAL DETAILS OF BEDDING AND TRENCH

SIGN. OF CLIENT:–

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P0	SIGN.												
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FILE NAME 12503A–CV–30588–Rev–P0

TATA CONSULTING ENGINEERS LIMITED

MUMBAI

SCALE : NTS	DWG NO. TCE.12503A–CV–3082–WS–30588	ISSUE P0
DC & DISC: DEL–CV		

SIZE–A3

FILE NAME: F–093–Rev–R1.DWG

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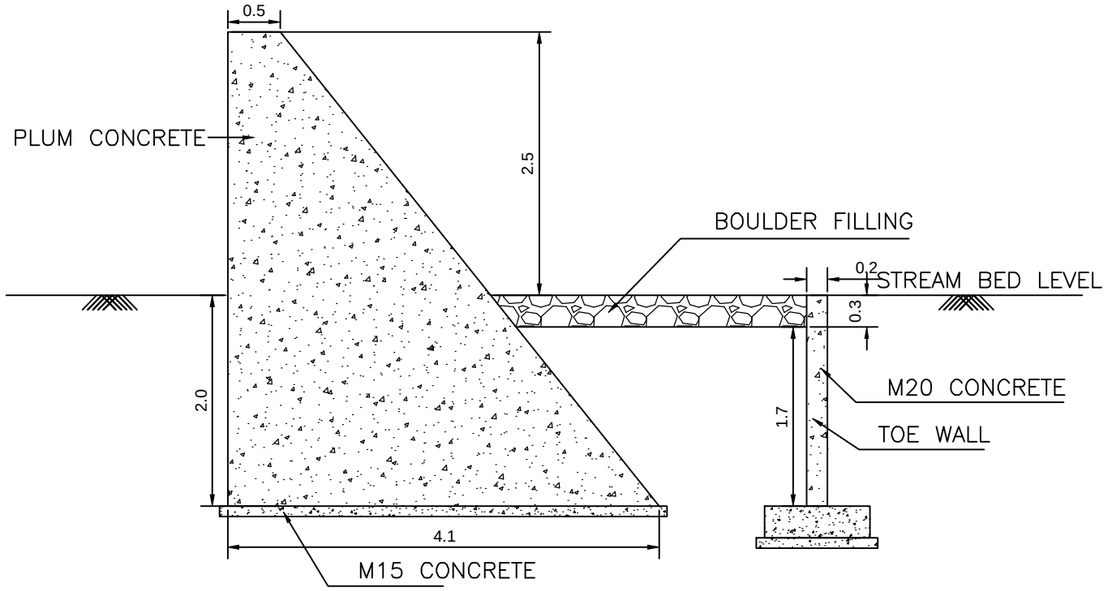
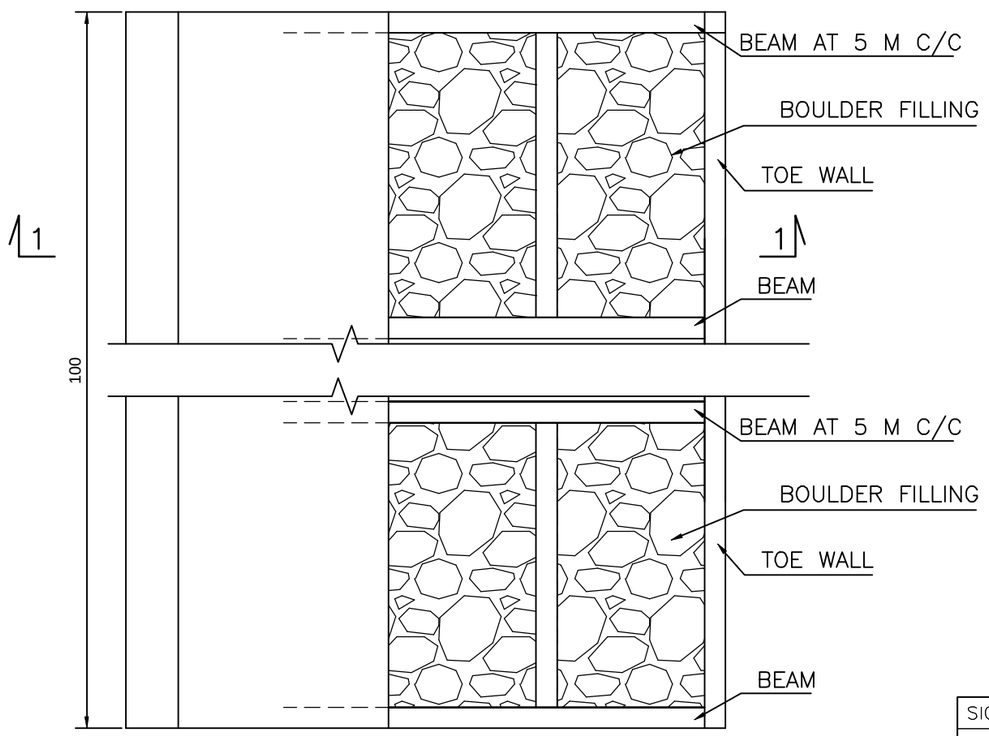


SECTION 1–1



PLAN

NOTES

1. ALL DIMENSIONS ARE IN METER.
2. THIS DRAWING HAS BEEN PREPARED IN ABSENCE OF DETAILED SURVEY AND GEOTECHNICAL INVESTIGATION WORKS. FOUNDATION IS ASSUMED AT 2M BELOW BED LEVEL

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

GENERAL ARRANGEMENT OF CHECK DAM

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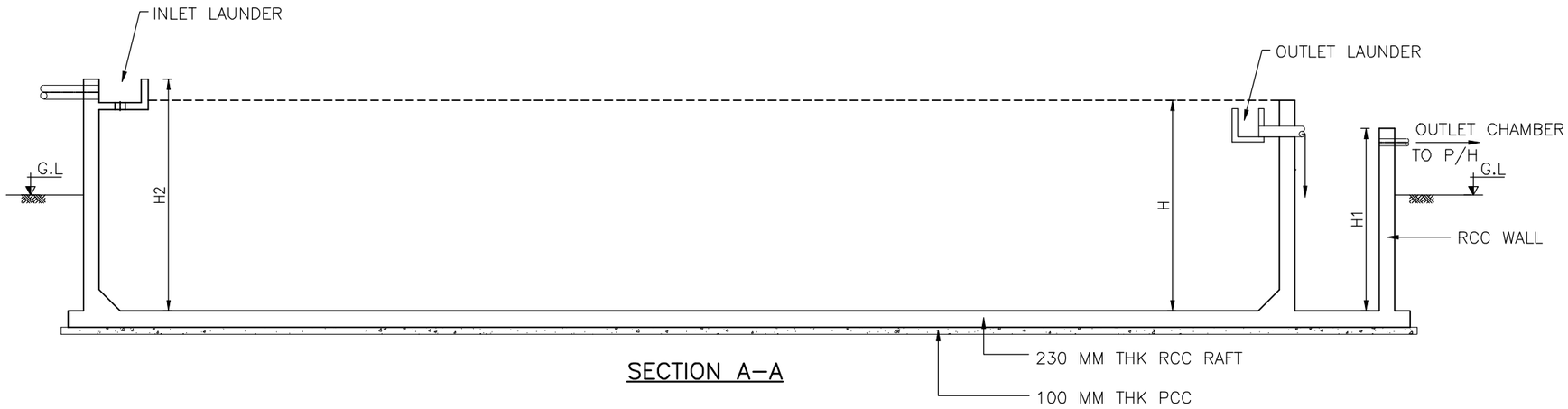
TATA CONSULTING ENGINEERS LIMITED

MUMBAI

SCALE : NTS	DWG NO. TCE.12503A–CV–3082–GA–30589	ISSUE P0	SIZE-A3
DC & DISC : DEL–CV			

FILE NAME: F-093-Rev-R1.DWG

TCE FORM NO. 093 R1



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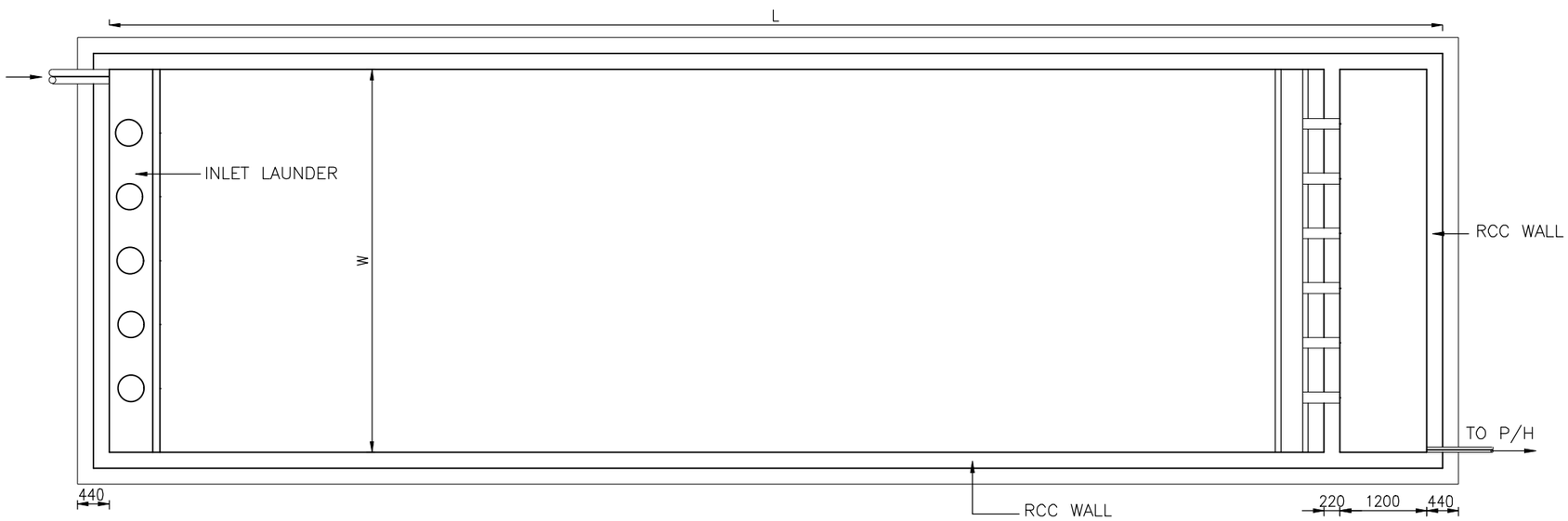

PLAN

LEGEND

P/H	– – –	PUMP HOUSE
THK	– – –	THICK
PCC	– – –	PLAIN CEMENT CONCRETE
RCC	– – –	REINFORCED CEMENT CONCRETE
G.L.	– – –	GROUND LEVEL
L	– – –	LENGTH OF TANK
W	– – –	WIDTH OF TANK
H	– – –	HEIGHT OF TANK

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.

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FILE NAME 12503A–CV–30590–Rev–P0

DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TYPICAL DETAILS OF DESILTING TANK

TATA CONSULTING ENGINEERS LIMITED

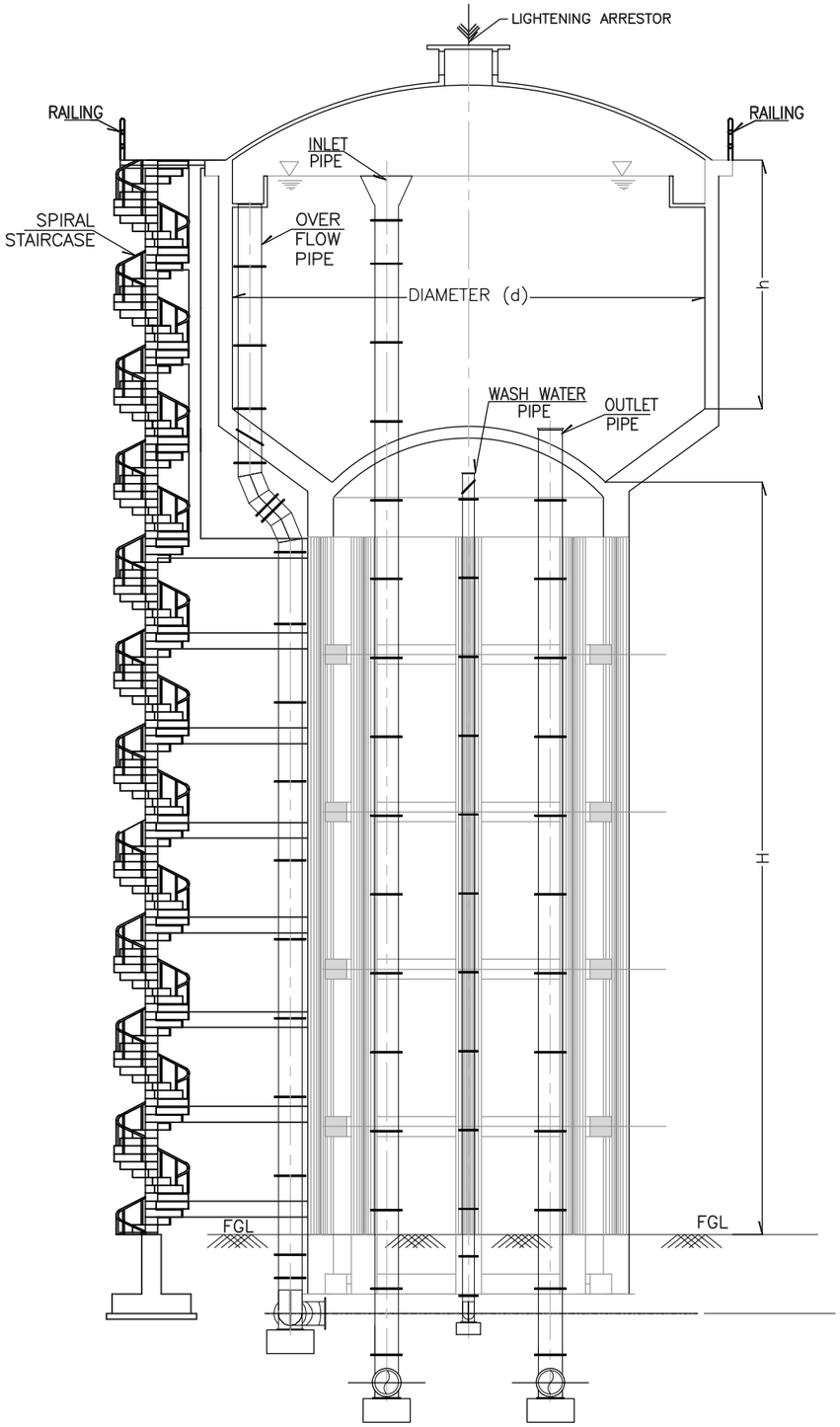
MUMBAI

SCALE : NTS	DWG NO. TCE.12503A–CV–3082–GA–30590	ISSUE P0
DC & DISC : DEL–CV		

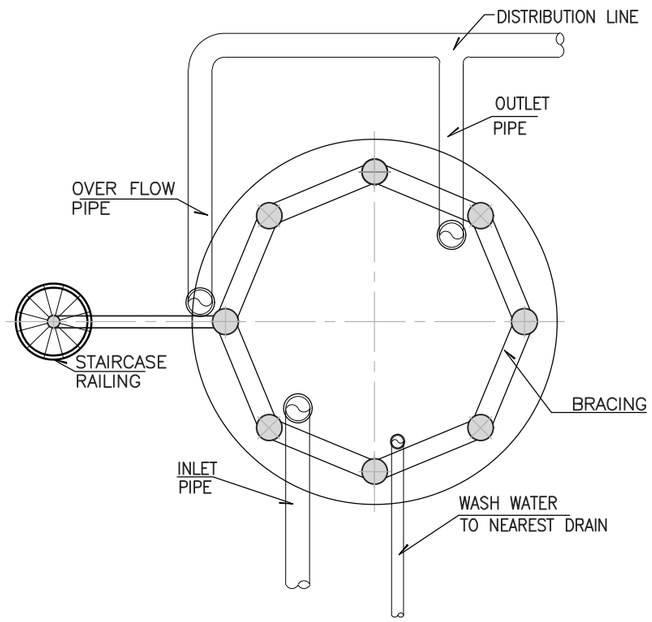
SIZE–A3

FILE NAME: F–093–Rev–R1.DWG

TCE FORM NO. 093 R1



SECTION ELEVATION



SECTIONAL PLAN

LEGEND:

D-----DIAMETER
H-----STAGE HEIGHT
h-----HEIGHT OF CYLINDRICAL WALL
FGL----FINISHED GROUND LEVEL

NOTES:

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

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FILE NAME 12503A-CV-30591-Rev-P0

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	DWG NO. TCE.12503A-CV-3082-GA-30591		ISSUE P0
DC & DISC : DEL-CV			

SIZE-A3

FILE NAME: F-093-Rev-R1.DWG

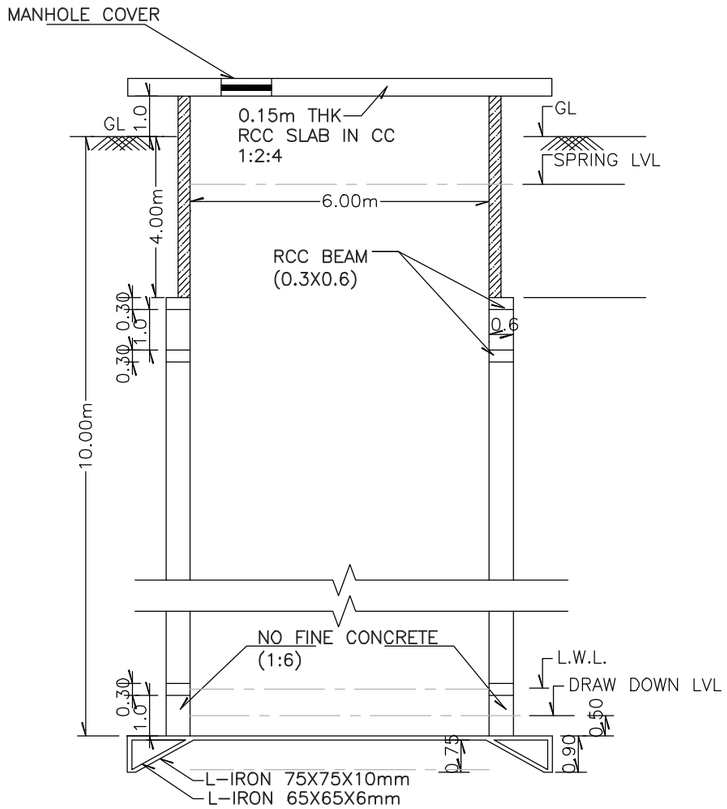
TCE FORM NO. 093 R1

LEGEND:

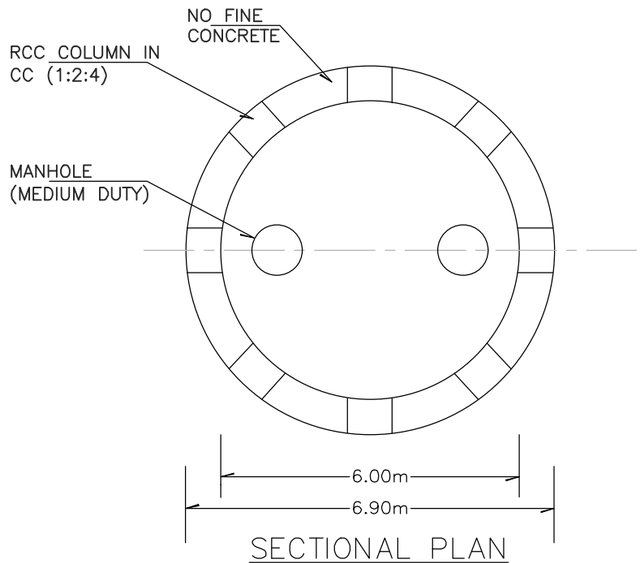
CC-----CEMENT CONCRETE
RCC----REINFORCED CEMENT CONCRETE
LVL-----LEVEL
GL-----GROUND LEVEL

NOTES:

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



SECTION ELEVATION



SECTIONAL PLAN

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IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TYPICAL DETAILS OF PERCOLATION WELL

TATA CONSULTING ENGINEERS LIMITED

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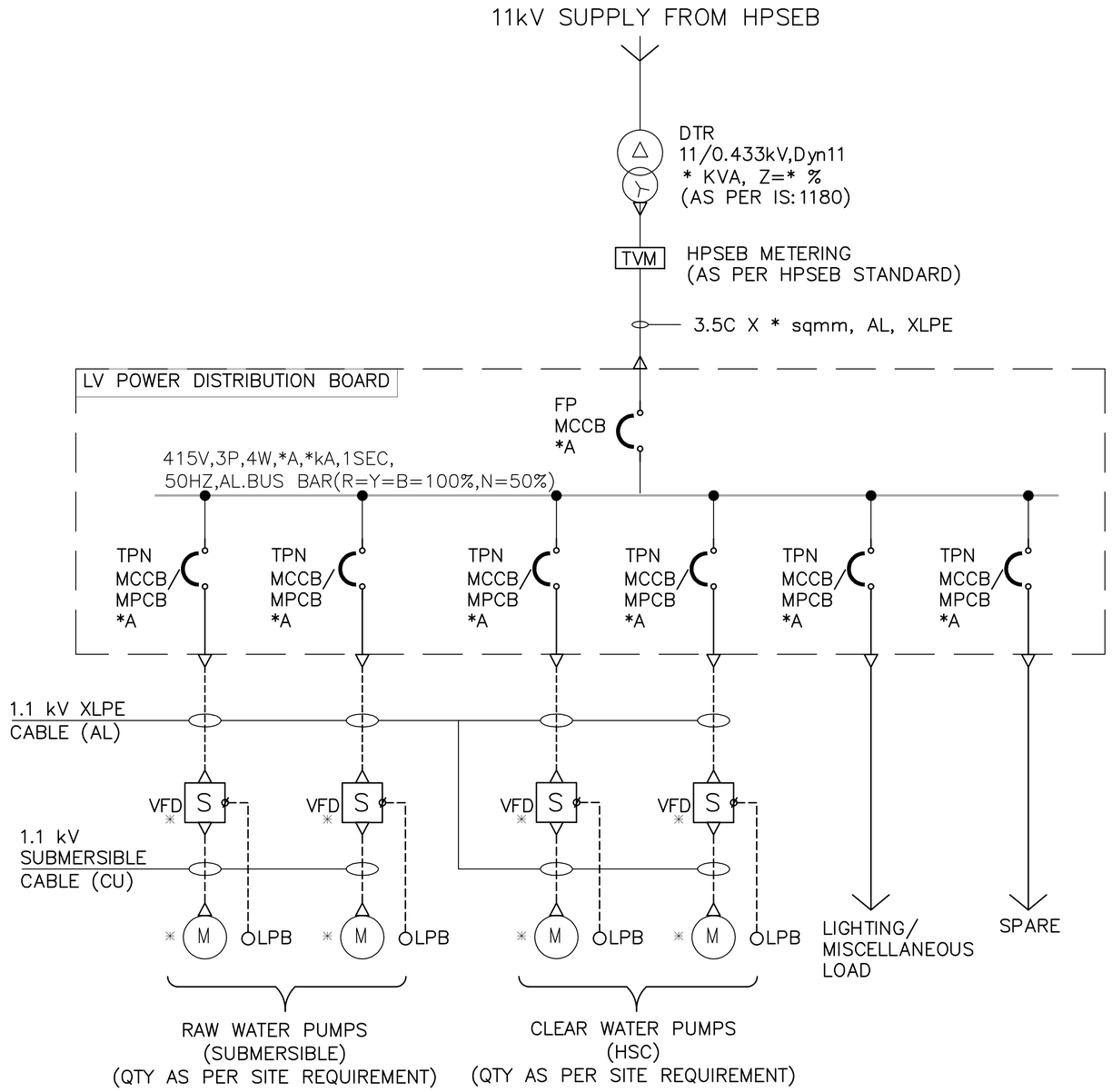

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TYPICAL SLD FOR LIS PUMPING STATION WITH 1W+1S UNITS & LT METERING

SIGN. OF CLIENT:-

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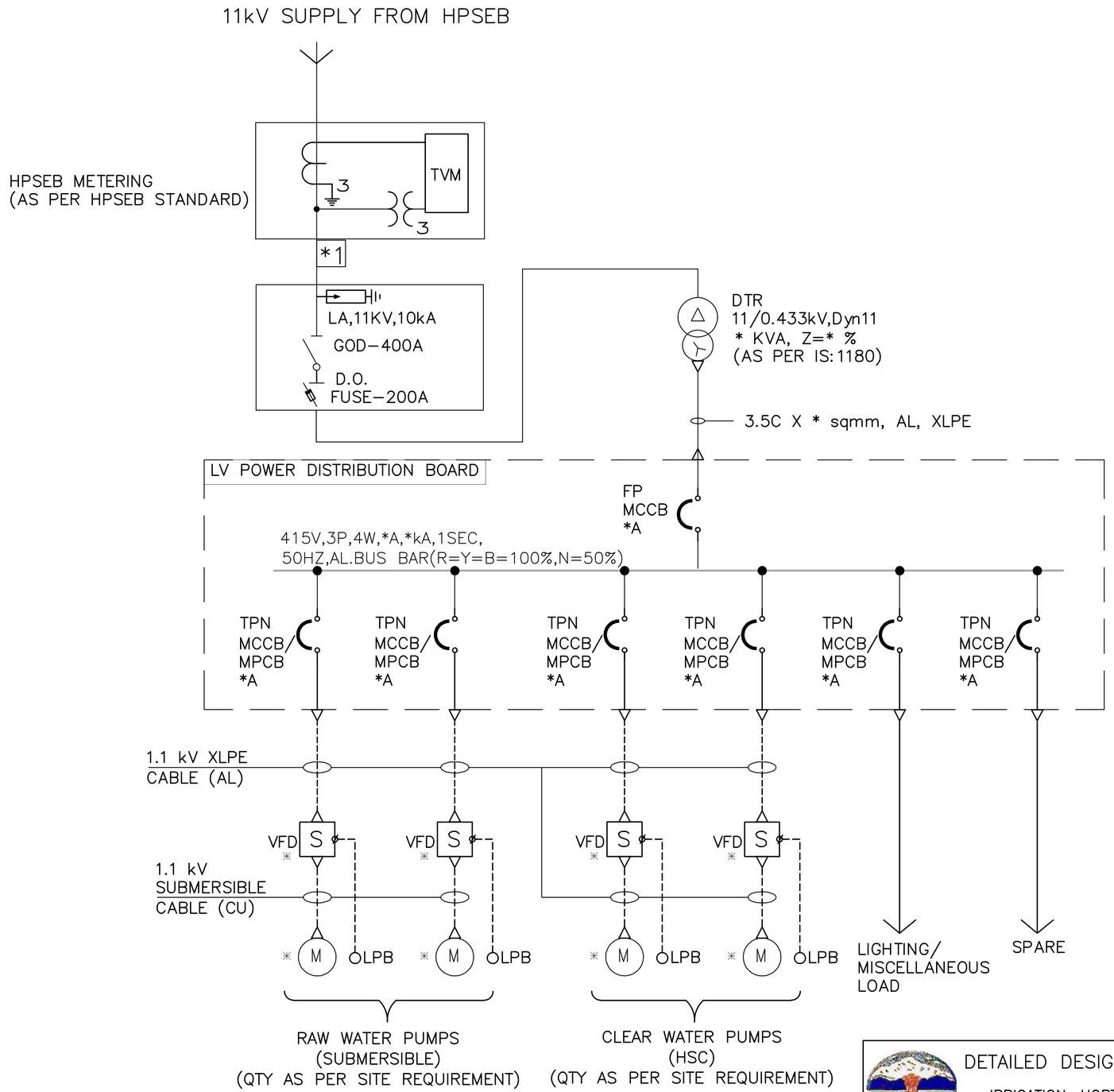

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TYPICAL SLD FOR LIS PUMPING STATION WITH 1W+1S UNITS & HT METERING

SIGN. OF CLIENT:-

JE	AE	EE	SE

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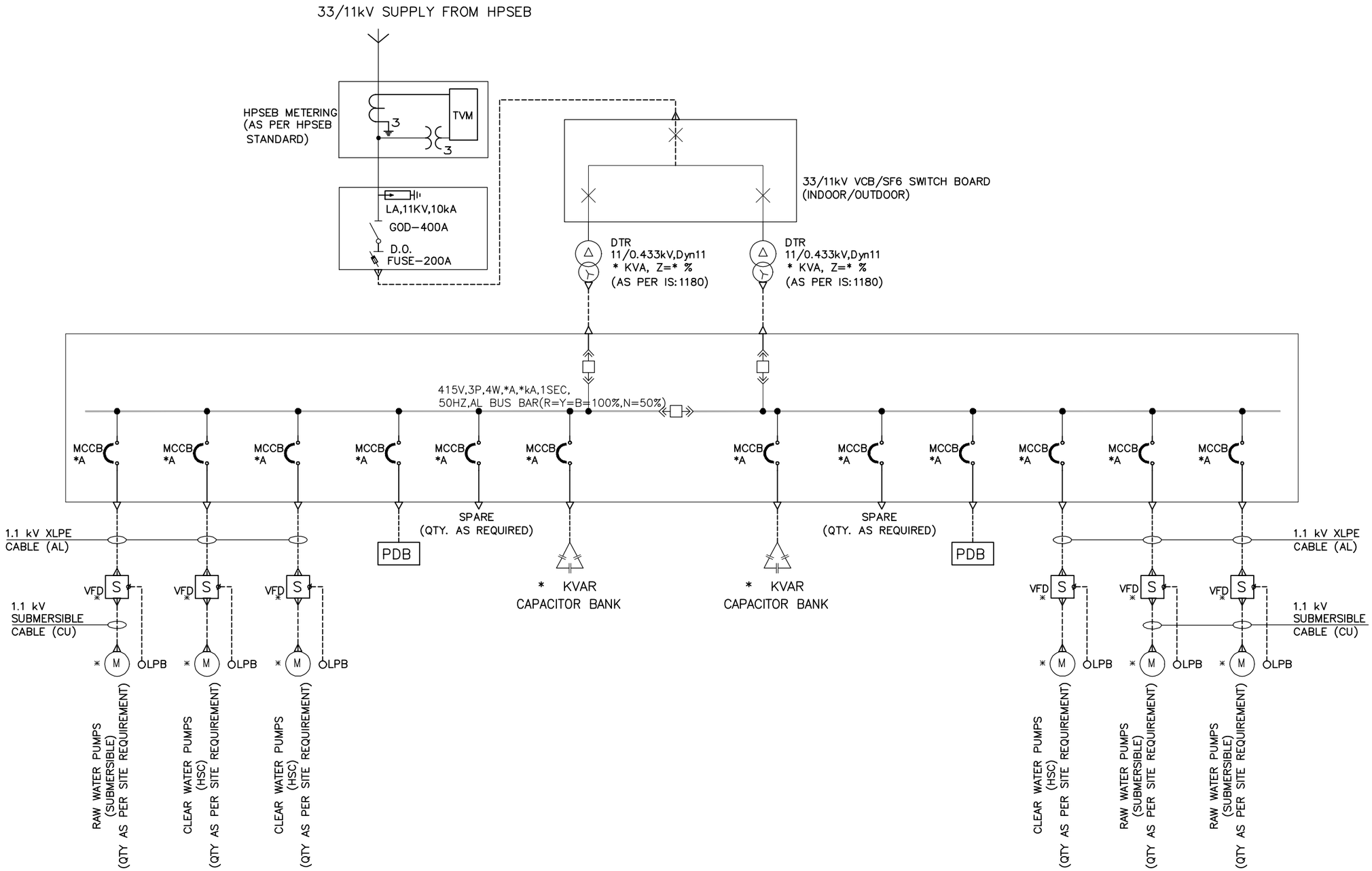

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TYPICAL SLD FOR LIS PUMPING STATION WITH 2W+1S UNITS & HT METERING

SIGN. OF CLIENT:-

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TCE FORM NO. 093 R1

GENERAL NOTES:

1. THIS SLD SHOWS THE SCHEME FOR DISTRIBUTION OF THE POWER WITHIN THE PROJECT BATTERY LIMIT & SHALL be READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRGS. RATINGS, SIZES & QUANTITIES OF EQUIPMENTS MARKED AS '*' NEED TO BE CALCULATED / PROVIDED BASED ON SYSTEM REQUIREMENT AS TENDER SPECIFICATIONS. CONTRACTOR SHALL SUBMIT THE EQUIPMENT SIZING CALCULATIONS & CORRESPONDING SWITCH GEAR RATING ALONG WITH THE BID.

2. THE CONTRACTOR HAS TO DO DETAIL ENGINEERING OF HV & LV SYSTEM AND WORK OUT THE RATING OF EACH COMPONENT AS PER DESIGN CRITERIA GIVEN IN TENDER & EQUIPMENT SIZING CALCULATIONS AS APPROVED BY ENGINEER–IN –CHARGE.

3. HV SYSTEM:
a) INTER TRIPPING & CLOSING INTERLOCK SHALL BE PROVIDED BETWEEN TRANSFORMER FEEDER (11KV) AND LT PANEL INCOMER (0.415KV) SIDE.
b) CT /PT UNIT FOR HT METERING AND TVM SHALL BE AS PER DISCOM.

4. LV SYSTEM:
a) ACB
– 415V SWITCHBOARD INCOMER/ BUS COUPLER ACB SHALL BE FP, EDO TYPE WITH MICROPROCESSOR–BASED O/C, S/C & INBUILT E/F AND UV RELEASES.
– ALL OUTGOING ACBS SHALL BE TP, EDO TYPE WITH MICROPROCESSOR–BASED O/C, S/C & INBUILT E/F RELEASES EXCEPT FOR APFC WHICH SHALL BE MDO TYPE WITH THERMAL MAGNETIC RELEASES.
– IN ALL LT SWITCHBOARDS, CURRENT RATING ABOVE 630A SHALL HAVE ACBs.
– –ALL ACBS SHALL BE WITH ICS=ICU=ICW=100%.
b) MCCB
– 415V SWITCHBOARD INCOMER/ BUSCOUPLER MCCB (>=250A) SHALL BE FP FIXED TYPE WITH MICROPROCESSOR BASED O/C, S/C & E/F RELEASES AND OUTGOING MCCB (>=250A) SHALL BE TP FIXED TYPE WITH MICROPROCESSOR BASED O/C, S/C & E/F RELEASES EXCEPT FOR APFC AND WHICH SHALL HAVE TM BASED O/C, S/C & E/F RELEASES WITH EXTERNAL E/F MODULE. ALL INCOMER/ OUTGOING MCCB (<250A) SHALL HAVE TM BASED O/C, S/C & E/F RELEASES WITH EXTERNAL E/F MODULE.
– ALL MCCB SHALL BE WITH Ics=Icu=100%.

5. ALL INDICATIONS, SHUNT TRIP/CLOSING COILS OF HT/ LT BREAKERS (VCBS/ ACBS) WILL BE ON 30/110V DC CONTROL SUPPLY. SPRING CHARGING MOTORS OF ALL BREAKERS WILL BE ON 230V AC SUPPLY. IF, DC SUPPLY IS NOT AVAILABLE FROM EXTERNAL SOURCE, IT SHALL BE DERIVED FROM INBUILT DC POWER PACK SUITABLE FOR ACCEPTING 230V AC SUPPLY FROM EXTERNAL SOURCE.
6. IN MCC, ALL MOTOR STARTER COMPONENTS RATING SHALL BE SELECTED AS PER MANUFACTURER'S TYPE–2 CO–ORDINATION CHART. MOTOR STARTERS SHALL BE COMPLETE WITH SINGLE PHASING PREVENTER. AMMETERS IN MOTOR FEEDERS SHALL BE PROVIDED WITH SUPPRESSED SCALE UP TO 6 TIMES FULL LOAD CURRENT FOR INDICATING STARTING CURRENT. ALL MOTOR FEEDERS UP TO OR EQUAL TO 5.5 KW SHALL HAVE DIRECT CONNECTED AMMETERS IN Y PHASE & MOTORS GREATER THAN 5.5KW WILL BE PROVIDED WITH ONE CT & AMMETER.

7. THE ON, OFF AND TRIP POSITION OF MCCB/ MPCB SHALL BE CLEARLY INDICATED. ROTARY OPERATING HANDLE FOR MCCBs/ MPCBs WITH THE DOOR CLOSED INTERLOCK SHALL BE PROVIDED. ALL MCCB/ MPCB FEEDERS ON ALL PANELS SHALL BE PROVIDED WITH ON/OFF/TRIP INDICATING LAMPS THROUGH AUXILIARY CONTACTS. WHEREVER STARTER FEEDER PROVIDED WITH MPCB BUT WITHOUT OVERLOAD RELAY, MPCB SHALL HAVE INBUILT OVERLOAD PROTECTION FEATURE.

8. 110 OR 220V AC CONTROL SUPPLY FOR LT PCC/ MCC SHALL BE DERIVED FROM CONTROL TRANSFORMER(S) OF ADEQUATE RATING. INTERLOCKING BETWEEN TWO CONTROL SUPPLIES SHALL BE PROVIDED SUCH THAT ENERGIZED SECTION CATERS FOR THE NEED OF THE PCC/ MCC PANEL.

9. MCCB & MPCB TERMINALS SHALL BE SHROUDED AND SHALL BE DESIGNED TO RECEIVE CABLE LUGS FOR RELEVANT CABLE SIZES.

10. ALL INDICATING LAMPS SHALL BE MULTICHIP LED TYPE.

11. MULTIFUNCTION METER FOR MEASURING ALL POWER & ENERGY PARAMETERS SHALL HAVE AN ACCURACY CLASS OF 1.0 OR BETTER, WITH RS 485 COMM PORT.

12. ALL CONTACTORS / TIMERS SHALL BE DIN RAIL MOUNTED.

13. UNDER STEADY STATE CONDITIONS, VOLTAGE DROP IN VARIOUS SECTIONS OF ELECTRICAL SYSTEM SHALL BE LIMITED TO A) CABLES BETWEEN TRANSFORMER SECONDARY TO PMCC – 2 % AND B) CABLES BETWEEN PMCC TO MOTOR– 3%. UNDER MOTOR STARTING CONDITIONS, THE CORRESPONDING VOLTAGE DROP SHALL NOT AFFECT THE OPERATION OF THE MOTOR CONTROLS OR THE ABILITY OF THE MOTOR TO START AND RUN EFFECTIVELY AND IN ANY EVENT SHALL NOT EXCEED 15%. FAULT CLEARING TIME TO BE CONSIDERED WHILE SIZING OF CABLES SHALL BE AS A) PCC INCOMER – 1 SEC AND B) TRANSFORMER PRIMARY: 0.16 SEC.

14. UNLESS SPECIFIED, ALL SWITCHBOARDS SHALL BE FREE STANDING, COMPARTMENTALIZED, EXTENSIBLE ON BOTH SIDES WITH HEIGHT NOT EXCEEDING 2300MM. ENCLOSURE PROTECTION OF SWITCHBOARDS SHALL BE AS PER TENDER.

15. WHEREVER APPLICABLE, SEPARATE PANEL FOR HVAC, FIRE AND PLUMPING PUMP WILL BE PART OF RESPECTIVE BOQ.

16. WHEREVER APPLICABLE, PROVISION OF ONE–WAY NET METERING SHALL BE PROPOSED IN THE SLD FOR INTEGRATION OF THE SOLAR WITH THE DISTRIBUTION SYSTEM. THIS METHODOLOGY NEEDS TO BE VERIFIED WITH THE STATE ELECTRICITY BOARD AND THE SOLAR VENDORS. SOLAR POWER SUPPLY WILL NOT BE ON WHEN DG IS ON.

17. WHEN TWO DG'S ARE OPERATING IN PARALLEL THEN PROVISION OF NEUTRAL CONTRACTOR INTERLOCKING SHOULD BE SUCH THAT ONLY ONE DG WILL BE EARTHED.

18. MCB USED FOR STANDARD NETWORK SHALL HAVE 'C' CHARACTERISTIC CURVE.

19. EACH TYPE & RATING OF OUTGOING FEEDER SHALL HAVE 10% SPARE OR MINIMUM ONE NUMBER.

LEGEND:

	LIGHTNING ARRESTER	R	RELAYING
	ISOLATER WITH EARTH SWITCH	I	INSTRUMENTATION
	ISOLATER WITH D.O. FUSE	25	SYNCHRONIZING RELAY
		27/59	UNDER/OVER VOLTAGE RELAY
	CIRCUIT BREAKER(ACB/VCB) DRAW–OUT TYPE	81	UNDERFREQUENCY RELAY
		50	INST. O/C PROTECTION
	CIRCUIT BREAKER(ACB/VCB) NON DRAW–OUT TYPE	50N	INST. E/F PROTECTION
		51	IDMT. O/C PROTECTION
	MCCB	95	TRIP SUPERVISION RELAY
	MPCB	49W	WINDING TEMP. HIGH INDICATOR WITH ALARM & TRIP CONTACTS
	MCB	49O	OIL TEMP. HIGH INDICATOR WITH ALARM & TRIP CONTACTS
	CABLE GLAND	63 X	PRESSURE RELIEF DEVICE
	INDICATING LAMP	63 T	BUCHHOLZ RELAY
	PUSH BUTTON	OSR	OIL SURGE RELAY
	CURRENT TRANSFORMER (CT) (FIGURE INDICATES NO. OF CT's)	MOG	MAGNETIC OIL GAUGE
		86	LOCK OUT RELAY
	POTENTIAL TRANSFORMER	SC	SPRING CHARGED
		TCH	TRIP CIRCUIT HEALTHY
	TRANSFORMER	SP	SERVICE POSITION
		TP	TEST POSITION
TVM	TRI VECTOR METER		ELECTRICAL CABINET
	CHOKE	MFM	MULTIFUNCTION METER
AS	AMMETER SELECTOR SWITCH		
A	ANALOG AMMETER	NET METER	NET ENERGY METER
VS	VOLTMETER SELECTOR SWITCH		
V	ANALOG VOLTMETER	TNC	TRIP–NEUTRAL–CLOSE SWITCH (KEY OPERATED)
	PUSH BUTTON STATION		
E.M.I.	ELECTRICAL– MECHANICAL INTERLOCK	ETPB	EMERGENCY TRIP PUSH BUTTON
R G A	TWO MOMENTARY CONTACT PB WITH THREE INDICATING LAMPS (R = RED, G = GREEN, A = AMBER)		CONTACTOR
		NC	NORMALLY CLOSED
L–R	LOCAL REMOTE SELECTOR SWITCH	NO	NORMALLY OPEN

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