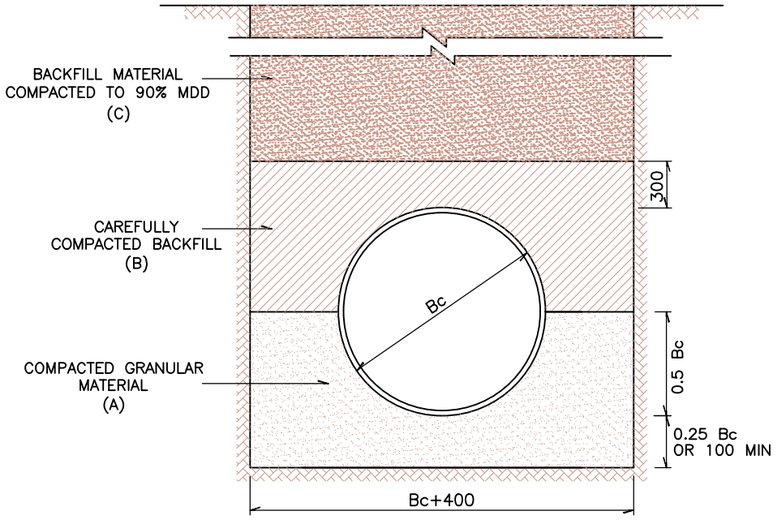
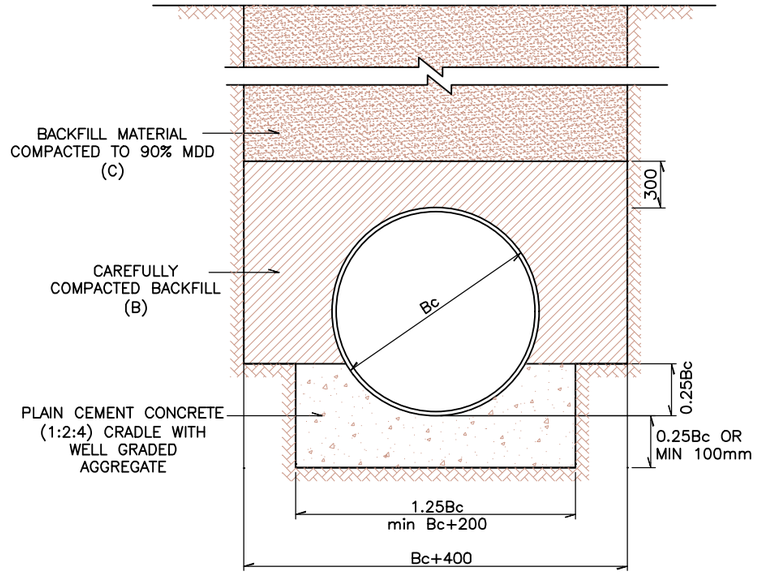



GRANULAR BEDDING (GRB)
CLASS–B



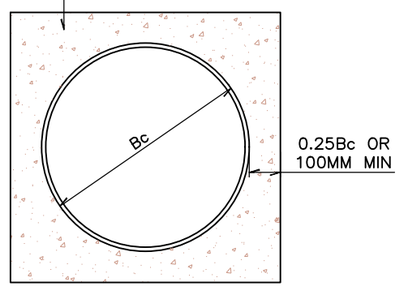

PLAIN CEMENT CONCRETE BEDDING (PCCB)
CLASS–Ab

## LEGEND:

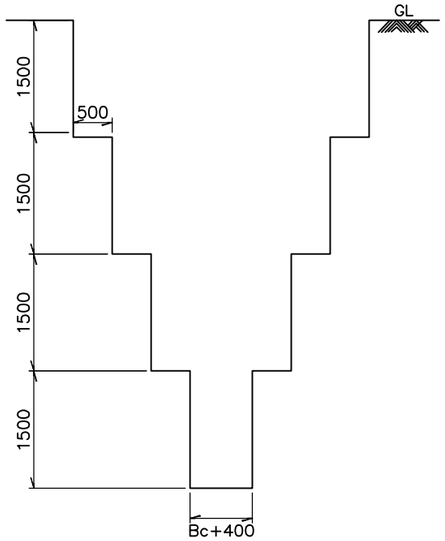
| | |
|---|---|
| GL | GROUND LEVEL |
| C.M. | CEMENT MORTAR |
| TYP | TYPICAL |
| MAX | MAXIMUM |
| DIA | DIAMETER |
| THK | THICK |
| MS | MILD STEEL |
| Bc | OUTER DIAMETER OF PIPE |
| d | INTERNAL DIAMETER OF PIPE |

## NOTES:

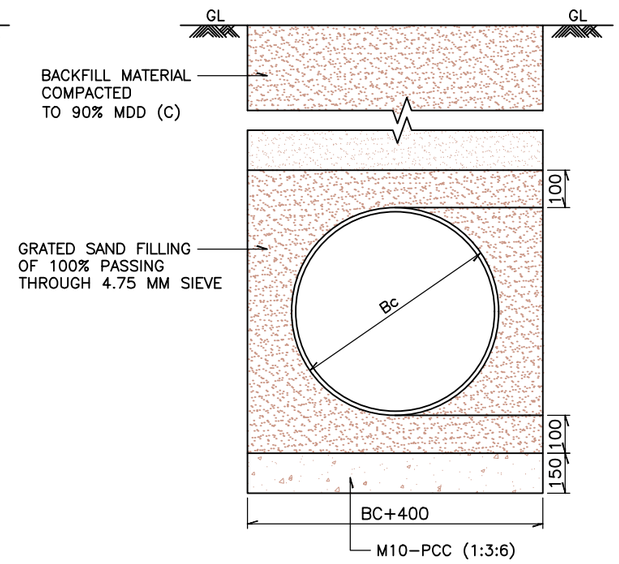
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED.
2. INTERNAL DIAMETER OF PIPE = D
3. OUTER DIAMETER OF PIPE = Bc.
4. BACKFILLING WITH APPROVED SELECTED EXCAVATED MATERIAL AND COMPACTION SHALL BE DONE BY HAND OR APPROVED MECHANICAL METHODS IN LAYERS OF 150mm WITH SPECIAL CARE TO AVOID 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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| | INITIALS | SM | MJ | DVP | | | | | | | NMS | NMS | 15-04-2022 |
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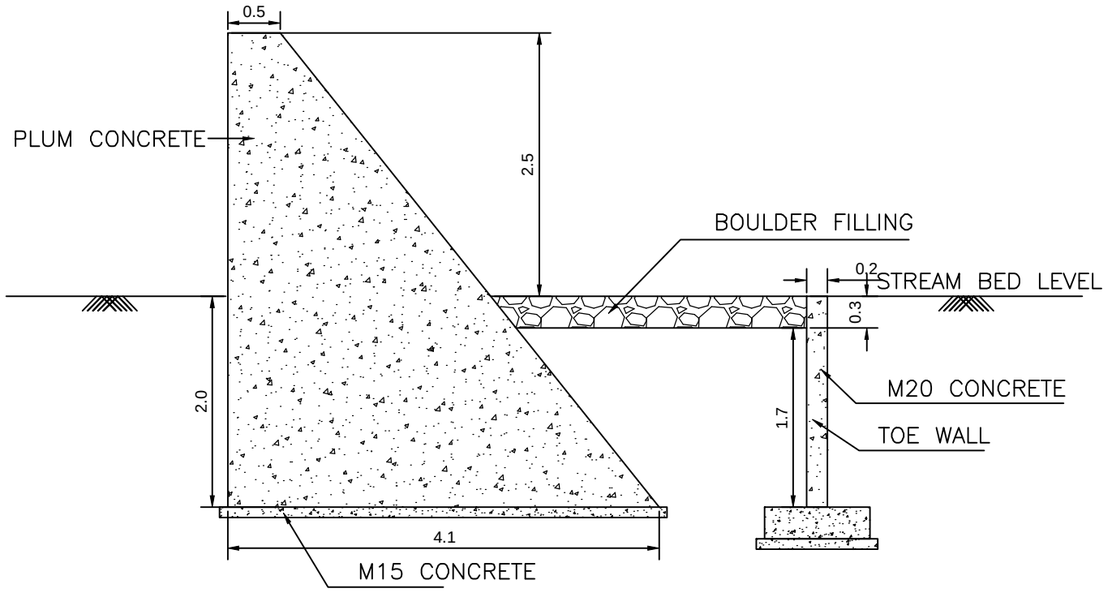
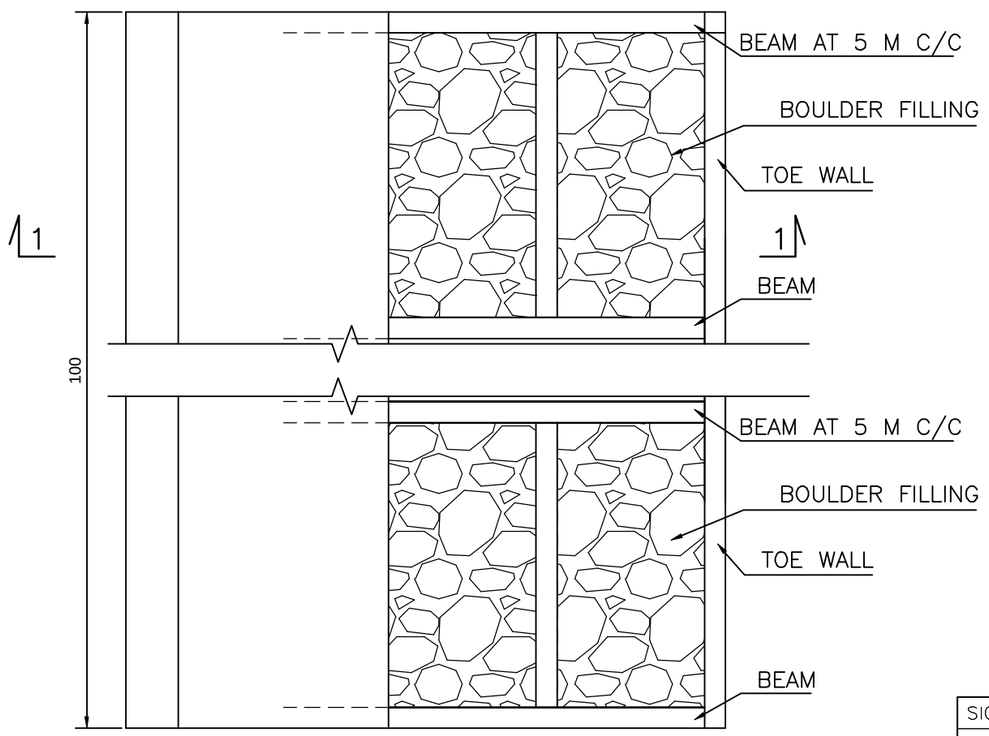
SIZE–A3

FILE NAME: F–093–Rev–R1.DWG

TCE FORM NO. 093 R1




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

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DETAILED DESIGN CONSULTANCY, HP–SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

GENERAL ARRANGEMENT OF CHECK DAM

TATA CONSULTING ENGINEERS LIMITED

MUMBAI

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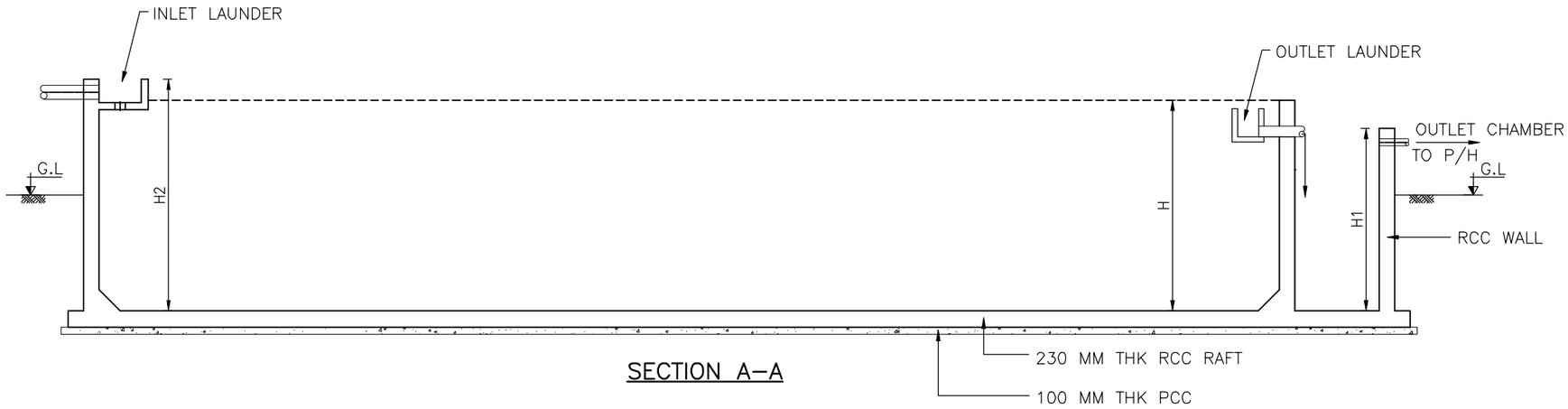


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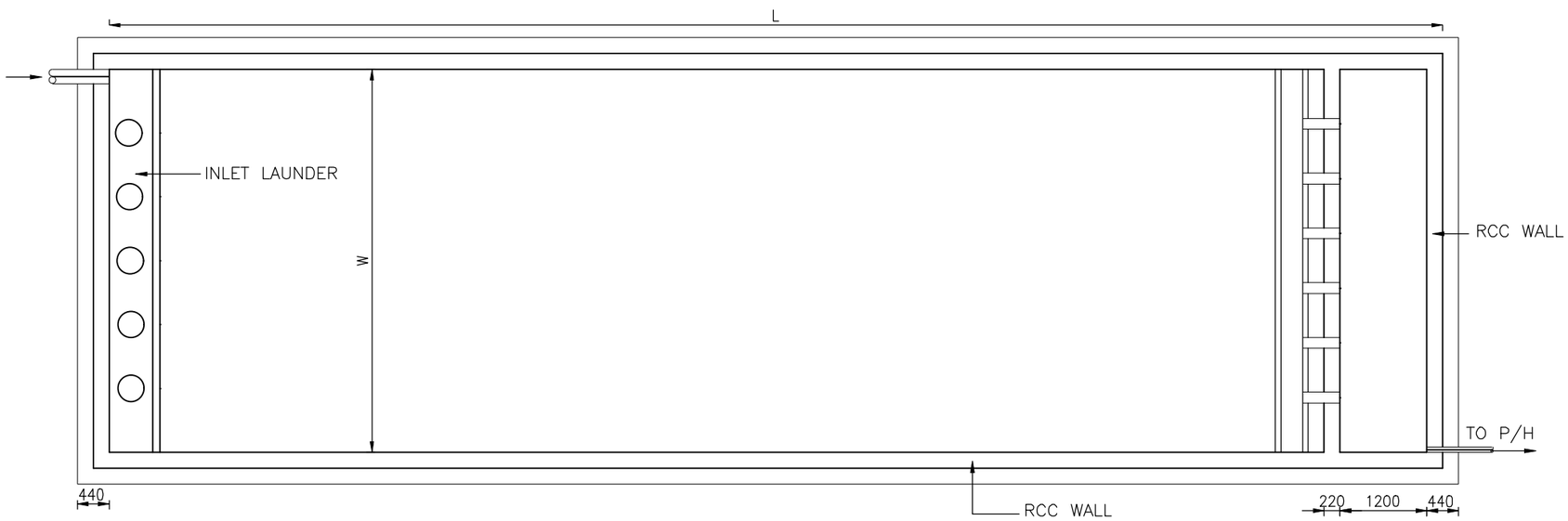


PLAN

## 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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IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TYPICAL DETAILS OF DESILTING TANK

TATA CONSULTING ENGINEERS LIMITED

MUMBAI

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FILE NAME: F–093–Rev–R1.DWG

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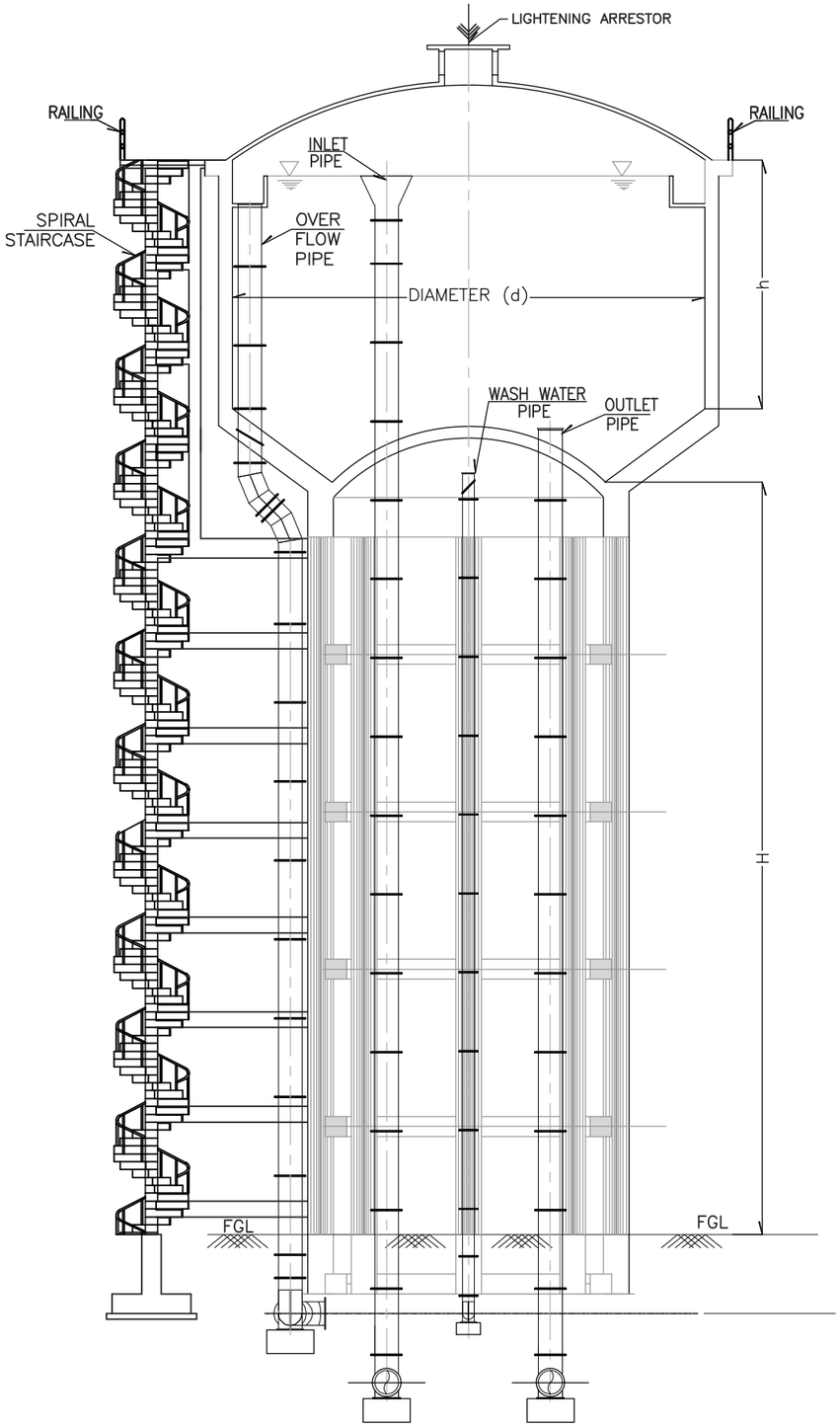
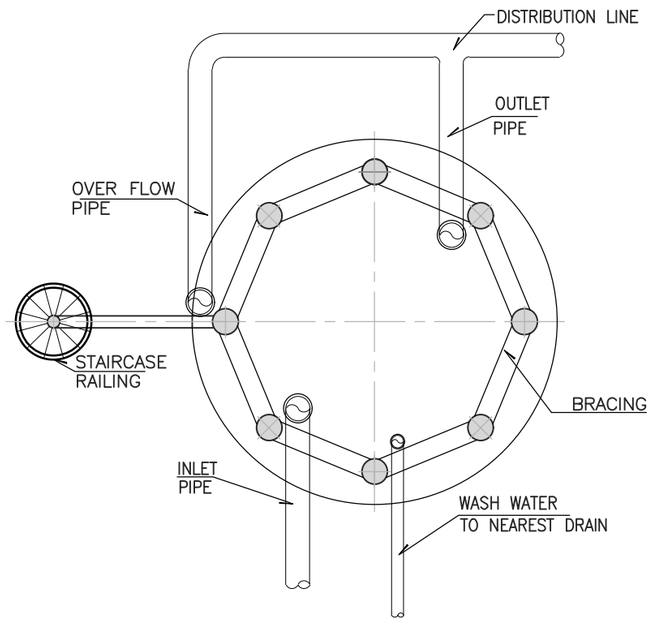



SECTION ELEVATION




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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IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TYPICAL DETAILS OF ELSR

TATA CONSULTING ENGINEERS LIMITED

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SIZE-A3

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

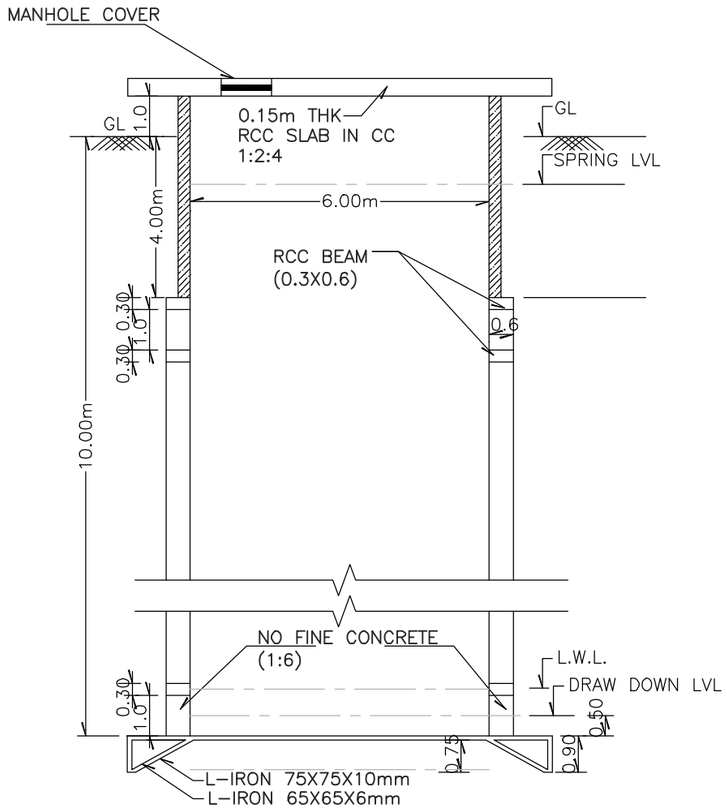
TCE FORM NO. 093 R1

LEGEND:

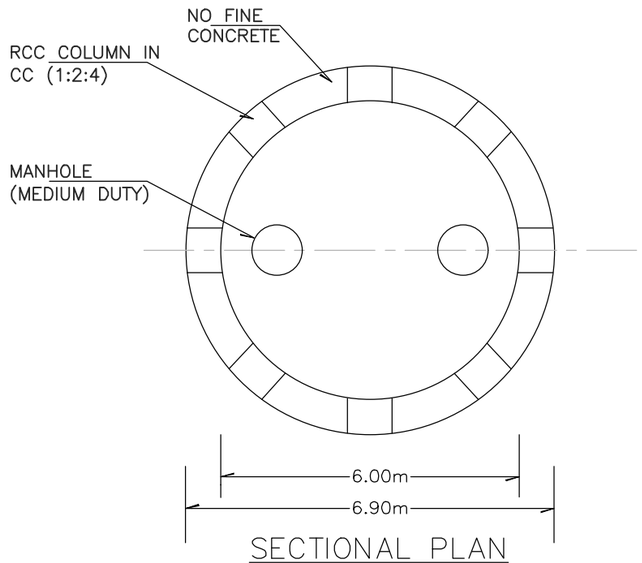
CC-----CEMENT CONCRETE
RCC----REINFORCED CEMENT CONCRETE
LVL-----LEVEL
GL-----GROUND LEVEL

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

MUMBAI

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

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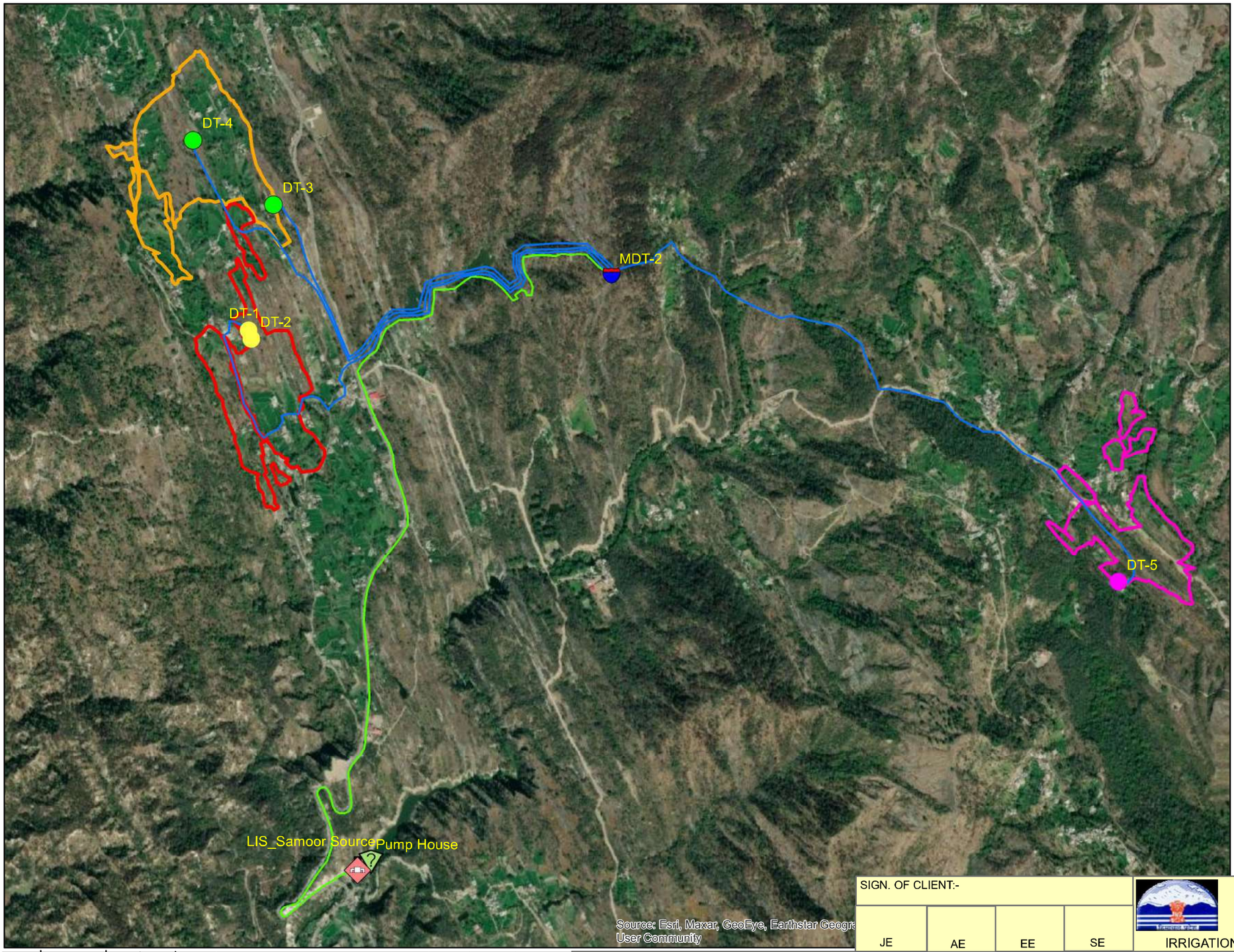


N
W E
S

## Legend

- LIS_Samoor Source
- Pump House
- MDT-2
- Delivery Tank-5
- Location-Boul_1
- Location-Boul_2
- Rising_Main_Sanhal
- Rising_Main_Boul
- SANHAL
- BOUL_1
- BOUL_2

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File Name:12503A-CV-30595-Rev-P0

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

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TITLE:- KEY PLAN OF GROUPING CLUSTER (SANHAL, BOUL-1 & BOUL-2) BANGANA BLOCK, UNA DISTRICT.

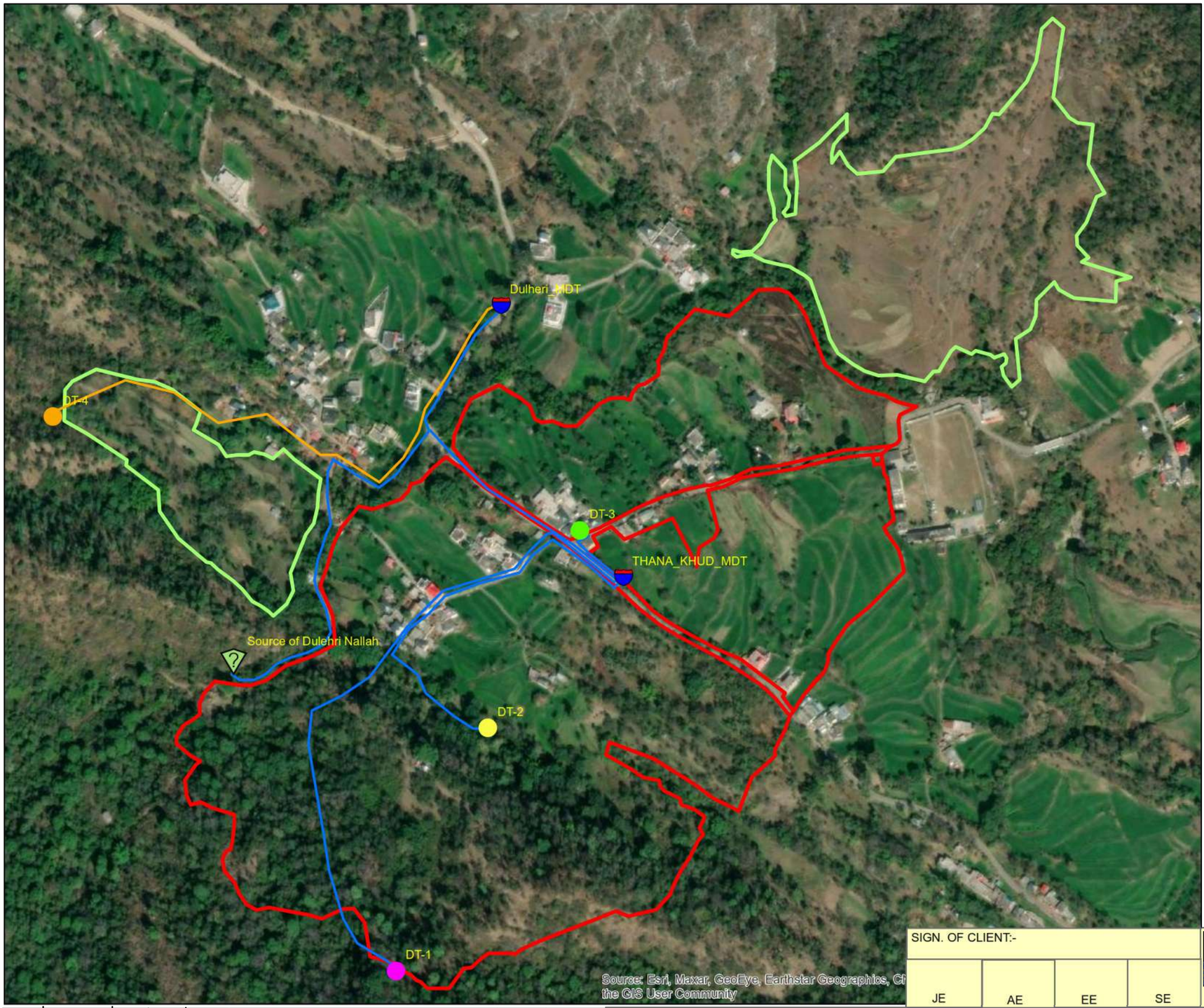
**TATA**CONSULTING ENGINEERS LIMITED. MUMBAI

SCALE:- 1:18,000

DL.CEN.:- DEL-CV

DWG. No:- TCE.12503A-CV-3005-LM-30595

ISSUE:- P0




N
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## Legend

- Source of Dulheri Nallah
- THANA_KHURD_MDT
- DT-1
- DT-2
- DT-3
- Dulheri_MDT
- DT-4
- Rising_Main-Thana_Khurd
- Rising_Main-Dulheri
- DULEHRI
- THANA_KHURD

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| | INITIALS | | | | | | | | | | |
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| | INITIALS | GKJ | DG | MK | | | | MK | DK | 17-04-2022 | |
| | REVISIONS | | | | | | | | | | |
| ISSUE | | DRN | DSN | CHD | CV | EL | IC | ME | | PE/PM | APPD. | DATE |
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File Name:12503A-CV-30596-Rev-P0

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

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TITLE:- KEY PLAN OF GROUPING CLUSTER (THANA KHURD, DULHERI RAJPUTA) BANGANA BLOCK, UNA DISTRICT.

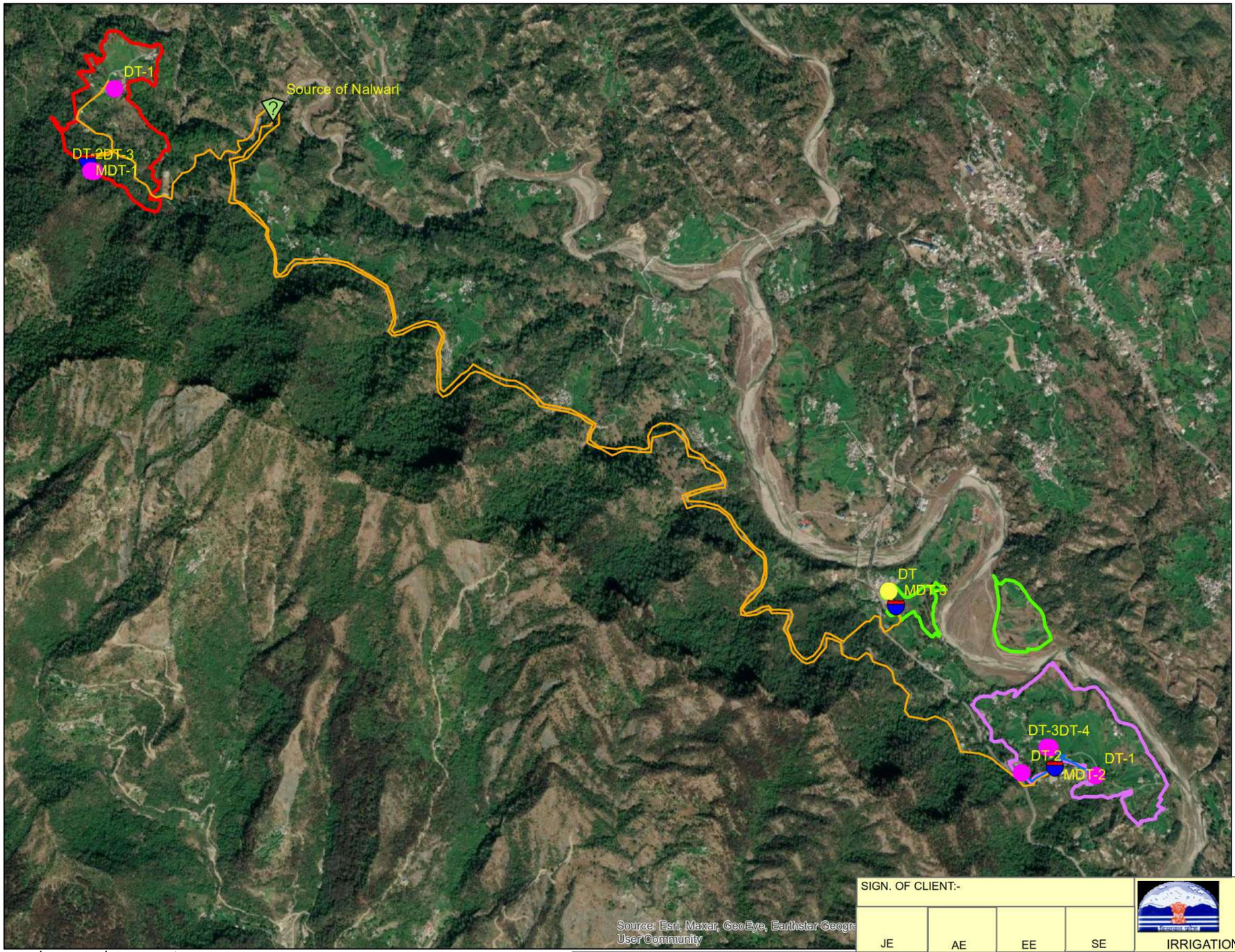
**TATA**CONSULTING ENGINEERS LIMITED. MUMBAI

SCALE:- 1:5,000

DL.CEN.:- DEL-CV

DWG. No:- TCE.12503A-CV-3005-LM-30596

ISSUE:- P0




N
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## Legend

- Source of Nalwari
- Main Delivery Tank
- Delivery Tank
- Location-Dumkhar
- Rising_Main-Nalwari
- Rising_Main-Dumkhar
- Rising_Main-Chadoli
- DUMKHAR
- CHADOLI
- NALWARI

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

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| | INITIALS | GKJ | DG | MK | | | MK | DK | 17-04-2022 | |
| | REVISIONS | | | | | | | | | |
| ISSUE | | DRN | DSN | CHD | CV | EL | IC | ME | PE/PM | APPD. | DATE |
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File Name: 12503A-CV-30597-Rev-P0

TITLE:- KEY PLAN OF GROUPING CLUSTER (NALWARI, DUMKHAR, CHAROLI) BANGANA BLOCK, UNA DISTRICT.

**TATA**CONSULTING ENGINEERS LIMITED.
MUMBAI

| SCALE:- 1:24,000 | DWG. No:- | ISSUE:- |
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| DL.CEN.:- DEL-CV | TCE.12503A-CV-3005-LM-30597 | P0 |

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## Legend

- Source of Satluj River
- Pump House
- Main Delivery Tank
- Delivery Tank
- Rising_Main
- Handola_Cluster

| | | | | | | | | | | |
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| | INITIALS | GKJ | DG | MK | | | MK | DK | | 17-04-2022 |
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File Name:12503A-CV-30598-Rev-P0

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

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TITLE:-

KEY PLAN OF HANDOLA CLUSTER
BANGANA BLOCK UNA DISTRICT.

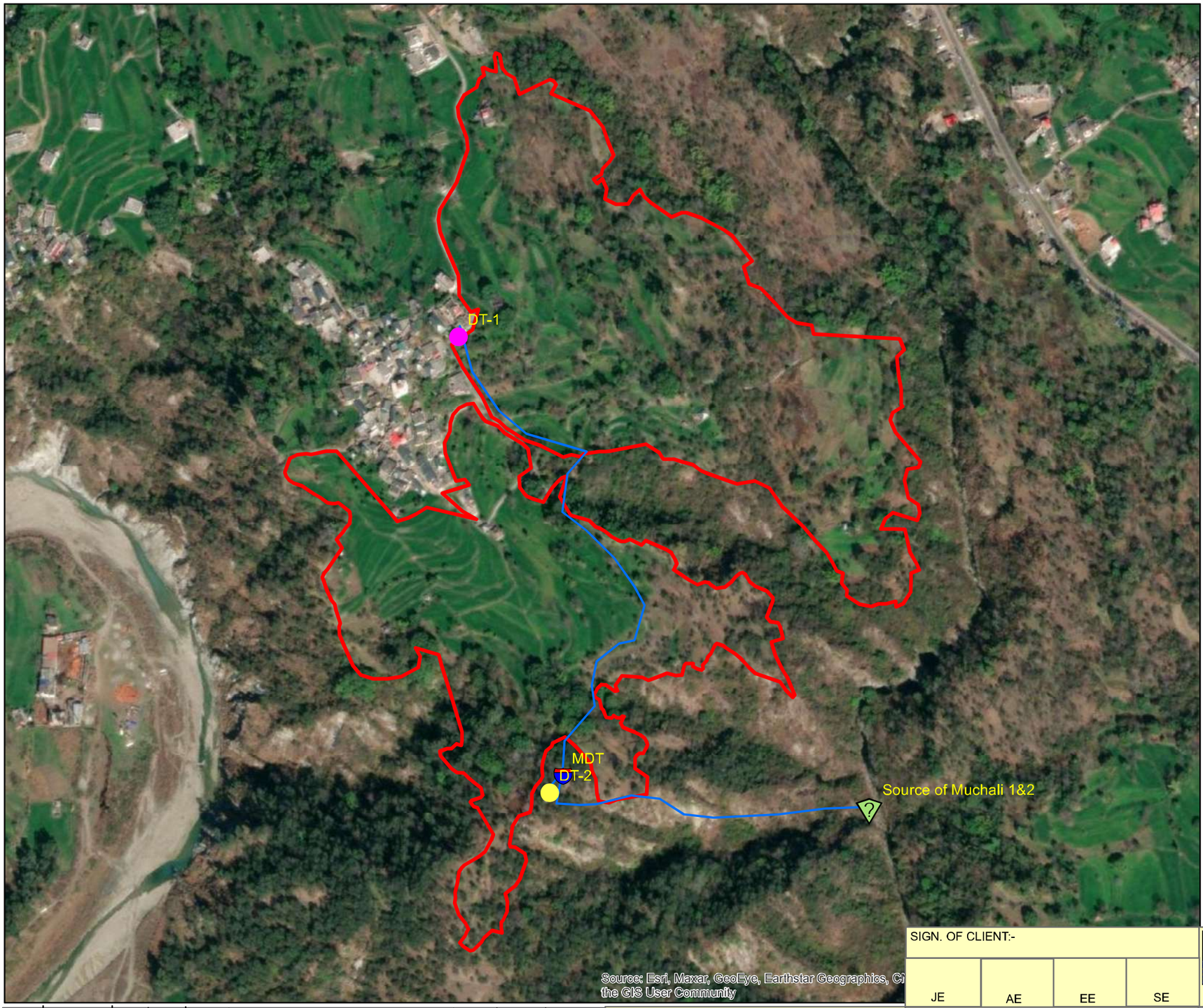
**TATA**CONSULTING ENGINEERS LIMITED.
MUMBAI

SCALE:- 1:5,000

DL.CEN.:- DEL-CV

DWG. No:- TCE.12503A-CV-3005-LM-30598

ISSUE:- P0

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## Legend

- Source of Muchali 1&2
- Main Delivery Tank
- Delivery Tank -1
- Delivery Tank-2
- Rising_Main
- MUCHALI_1&2 Cluster

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| | INITIALS | GKJ | DG | MK | | | MK | DK | | 17-04-2022 |
| | REVISIONS | | | | | | | | | |
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File Name:12503A-CV-30599-Rev-P0

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

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TITLE:-

KEY PLAN OF MUCHALI 1 & 2 CLUSTER
BANGANA BLOCK, UNA DISTRICT.

**TATA**CONSULTING ENGINEERS LIMITED.
MUMBAI

SCALE:- 1:5,000

DL.CEN.:- DEL-CV

DWG. No:- TCE.12503A-CV-3005-LM-30599

ISSUE:- P0

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## Legend

- R-4_Reservoir
- R-3_Desilting Tank
- MDT
- Pump table
- CT
- Junction
- Rising_Main
- Gravity_Main
- BARAL

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

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| | INITIALS | GKJ | DG | MK | | | | | MK | DK | 19-04-2022 |
| | REVISIONS | | | | | | | | | | |
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File Name:- 12503A-CV-30620-Rev-P0

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

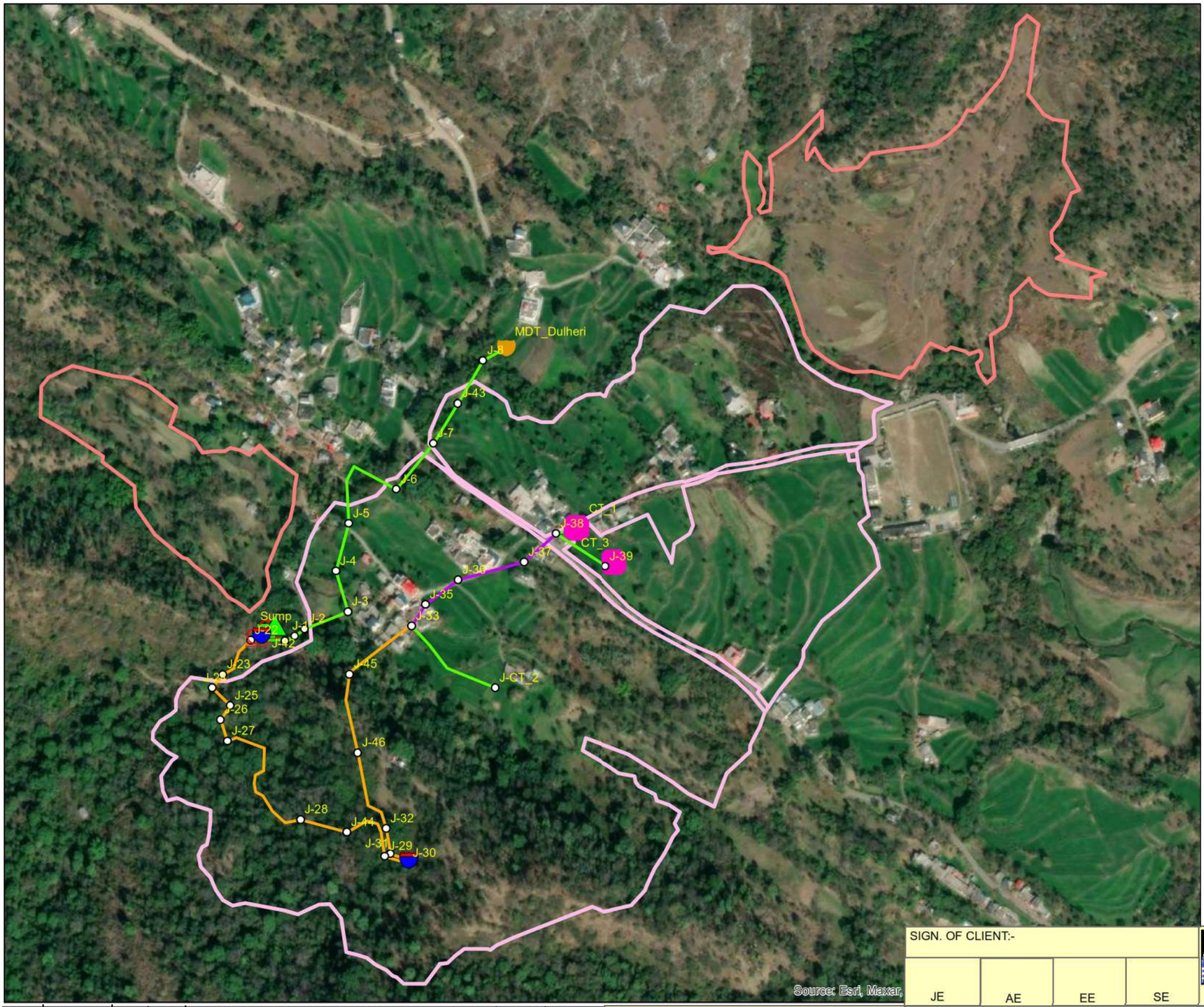
**TATA**CONSULTING ENGINEERS LIMITED.
MUMBAI

SCALE:- 1:6,000

DL.CEN.:- DEL-CV

DWG. No:- TCE.12503A-CV-3082-WS-30620

ISSUE:- P0



## Legend

- Source
- MDT
- Pump
- Sump
- MDT
- MT
- Junction
- Gravity Main 100mm Dia GI Pipe
- Gravity Main 125mm Dia GI Pipe
- Gravity Main 150mm Dia GI Pipe
- Rising Main 200mm Dia MS Pipe
- THANA_KHURD
- DULHERI RAJPUTS

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| P1 | SIGN. | | | | | | | | | 27-05-2022 |
| | INITIALS | GKJ | DG | DVB | | | MK | DK | | |
| | REVISIONS | As per Client Observation | | | | | | | | |
| P0 | SIGN. | | | | | | | | | 19-04-2022 |
| | INITIALS | GKJ | DG | DVB | | | MK | DK | | |
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| ISSUE | | DRN | DSN | CHD | CV | EL | IC | ME | PE/PM | APPD. | DATE |
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File Name: 2503A-CV-30621-Rev-P1

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

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TITLE:- NETWORK DRAWING OF LIFT IRRIGATION SCHEME FOR GROUPING CLUSTER ( THANA KHURD, DULHERI RAJPUTAN), BANGANA BLOCK, UNA DISTRICT.

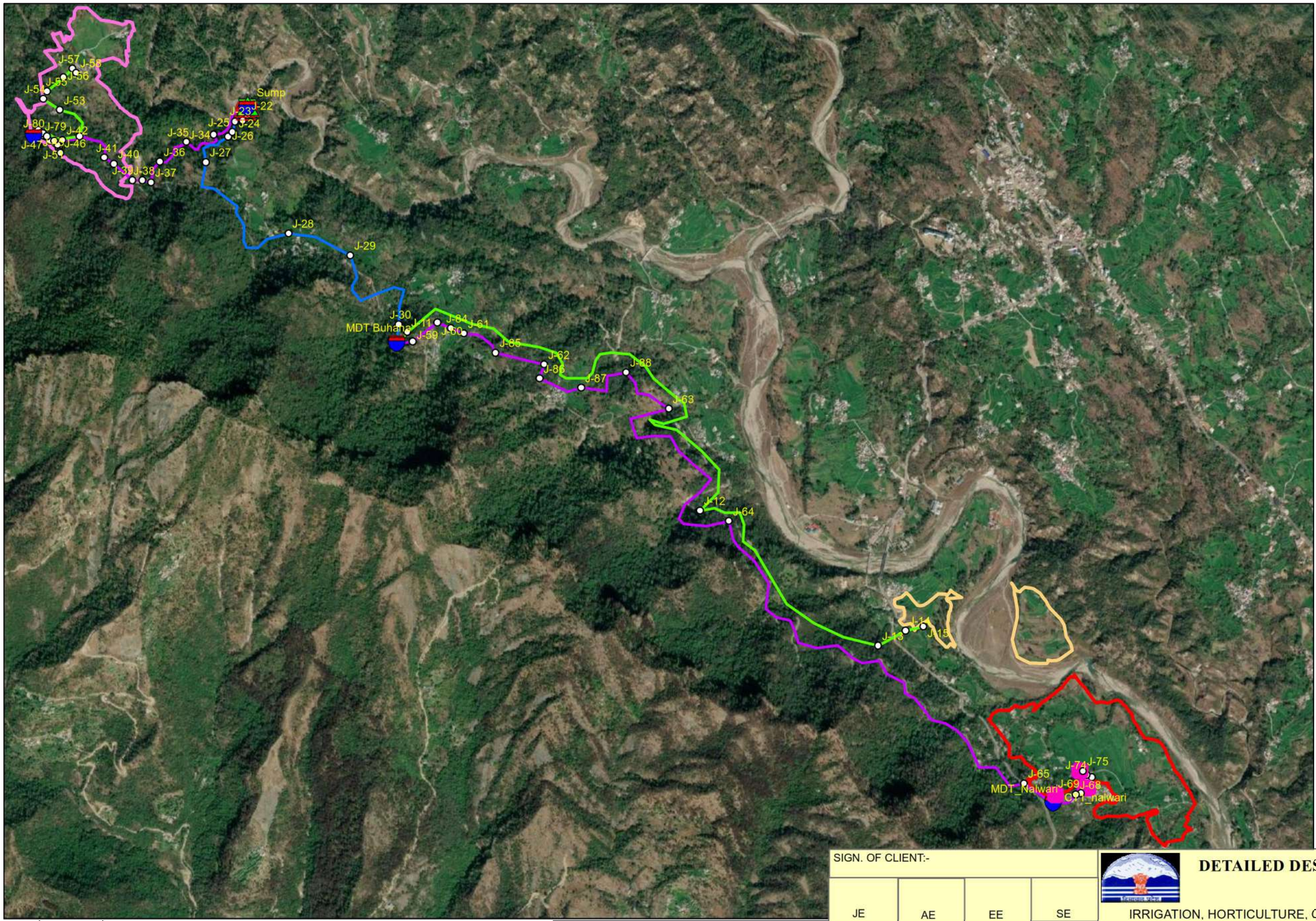
**TATA**CONSULTING ENGINEERS LIMITED. MUMBAI

SCALE:- 1:5,000

DL.CEN.:- DEL-CV

DWG. No:- TCE.12503A-CV-3082-WS-30621

ISSUE:- P1

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## Legend

- Source
- MDT
- Pump
- MDT
- SUMP
- MT
- Junction
- Gravity Main 100mm Dia GI Pipe
- Gravity Main 125mm Dia GI Pipe
- Gravity Main 150mm Dia GI Pipe
- Rising Main 200mm Dia MS Pipe
- DUMKHAR
- NALWARI
- CHAROLI

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| P1 | SIGN. | | | | | | | | 27-05-2022 |
| | INITIALS | GKJ | DG | DVB | | MK | DK | | |
| | REVISIONS | As per Client Observation | | | | | | | |
| P0 | SIGN. | | | | | | | | 19-04-2022 |
| | INITIALS | GKJ | DG | DVB | | MK | DK | | |
| | REVISIONS | | | | | | | | |
| ISSUE | | DRN | DSN | CHD | CV EL IC ME CLEARED | PE/PM | APPD. | DATE | |

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File Name:12503A-CV-30622-Rev-P1

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

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

TITLE:- NETWORK DRAWING OF LIFT IRRIGATION SCHEME FOR GROUPING CLUSTER (NALWARI, CHAROLI, DUMKHAR), BANGANA BLOCK, UNA DISTRICT.

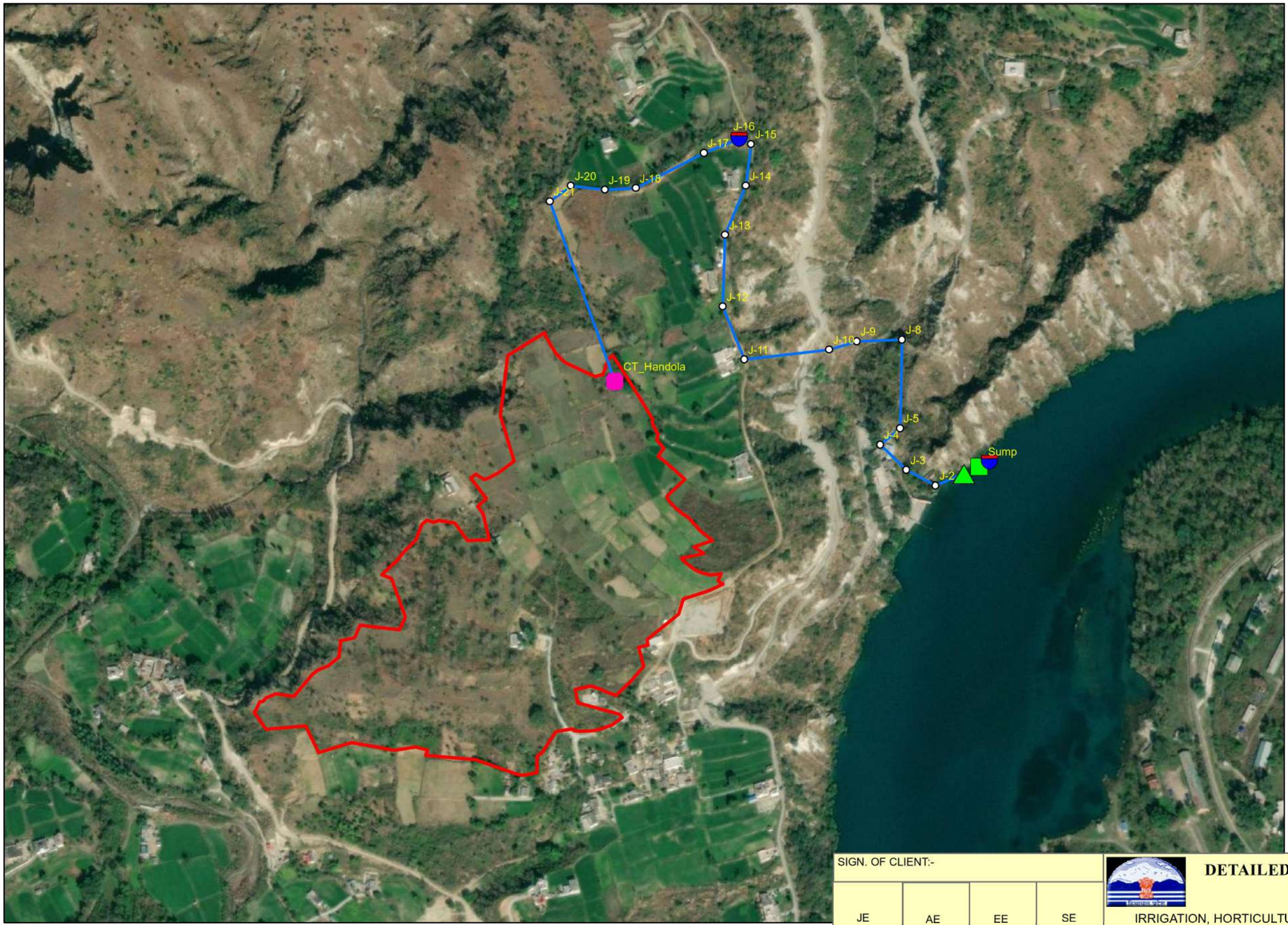
**TATA**CONSULTING ENGINEERS LIMITED.
MUMBAI

SCALE:- 1:22,000

DL.CEN.:- DEL-CV

DWG. No:- TCE.12503A-CV-3082-WS-30622

ISSUE:- P1




N
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## Legend

- Source
- MDT
- Pump Table
- MT
- Sump
- Junction
- Rising Main 100mm Dia GI Pipe
- HANDOLA

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|---|---|---|---|---|---|---|---|---|---|
| P1 | SIGN. | | | | | | | | 27-05-2022 |
| | INITIALS | GKJ | DG | DVB | | MK | DK | | |
| | REVISIONS | As per Client Observation | | | | | | | |
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File Name:12503A-CV-30623-Rev-P1

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

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

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

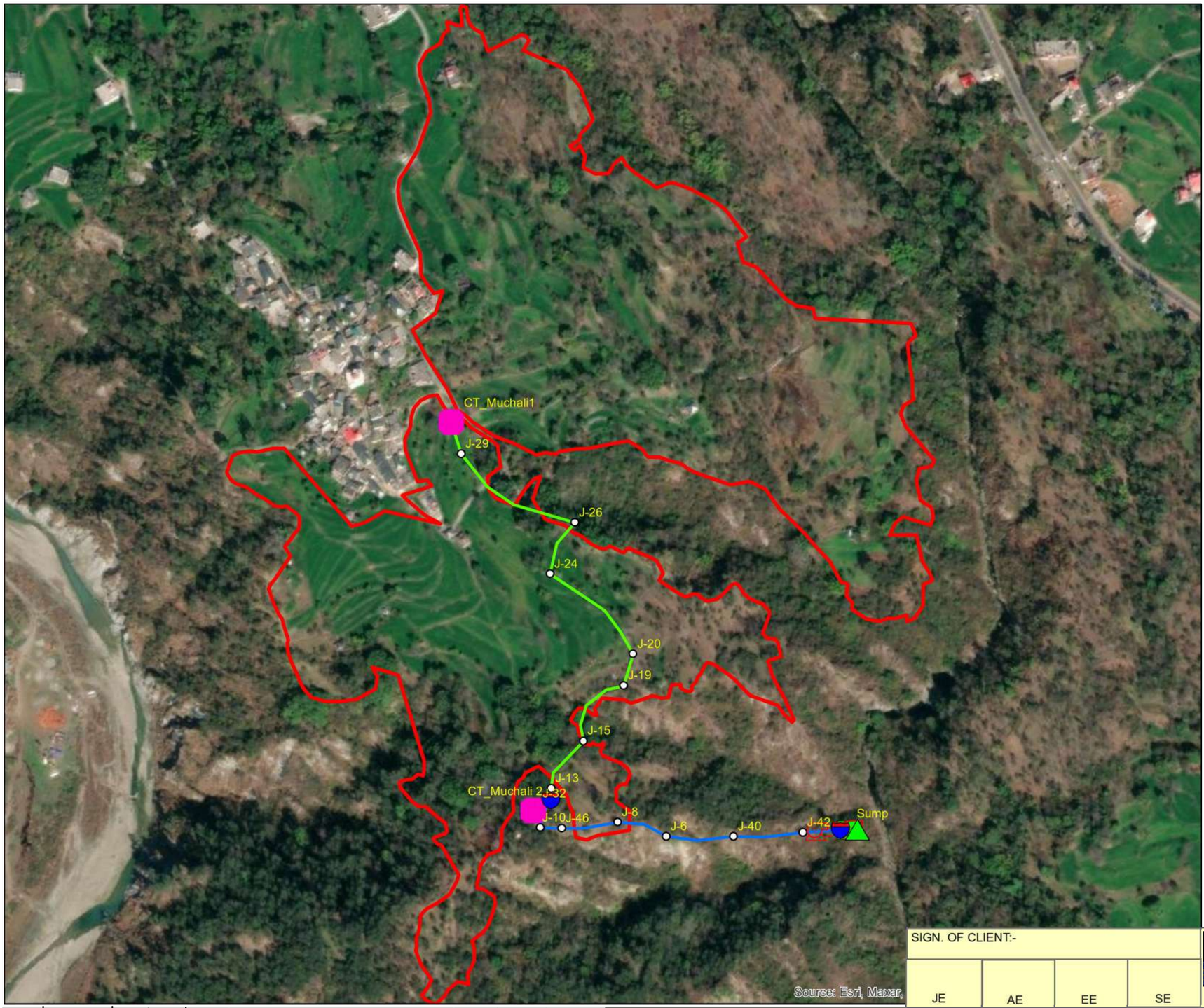
**TATA**CONSULTING ENGINEERS LIMITED. MUMBAI

SCALE:- 1:5,178

DL.CEN.:- DEL-CV

DWG. No:- TCE.12503A-CV-3082-WS-30623

ISSUE:- P1




N
W E
S

## Legend

- Source
- MDT
- Pump
- MT
- Sump
- Junction
- Rising Main 125mm Dia GI Pipe
- Gravity Main 100mm Dia GI Pipe
- MUCHALI_1&2

SIGN. OF CLIENT:-

| JE | AE | EE | SE |
|---|---|---|---|
| | | | |

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

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| P1 | SIGN. | | | | | | | | 27-05-2022 |
| | INITIALS | GKJ | DG | DVB | | MK | DK | | |
| | REVISIONS | As per Client Observation | | | | | | | |
| P0 | SIGN. | | | | | | | | 19-04-2022 |
| | INITIALS | GKJ | DG | DVB | | MK | DK | | |
| | REVISIONS | | | | | | | | |

| ISSUE | | DRN | DSN | CHD | CV | EL | IC | ME | | | PE/PM | APPD. | DATE |
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| | | | | | CLEARED | | | | | | | | |

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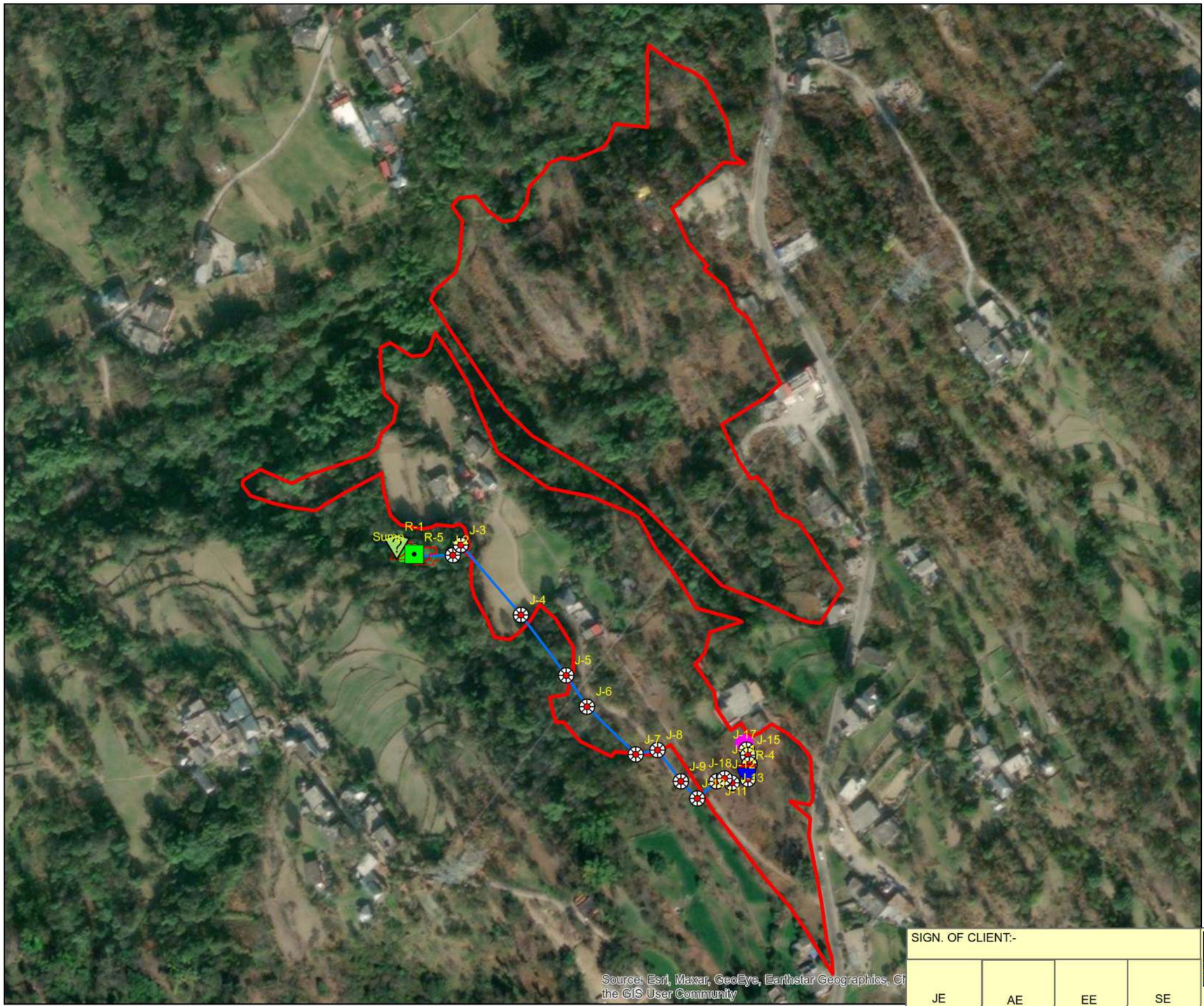
File Name: 12503A-CV-30624-Rev-P1

TITLE:- NETWORK DRAWING OF LIFT IRRIGATION SCHEME FOR MUCHALI_1 & 2 CLUSTER, BANGANA BLOCK, UNA DISTRICT.

**TATA**CONSULTING ENGINEERS LIMITED. MUMBAI

| SCALE:- 1:4,500 | DWG. No:- | ISSUE:- |
|---|---|---|
| DL.CEN.:- DEL-CV | TCE.12503A-CV-3082-WS-30624 | P1 |




N
W E
S

## Legend

- Source
- MDT
- Tank
- Pump
- CT
- Junction
- Sump
- Rising_Main
- Gravity_Main
- HATLI

| | | | | | | | | | | |
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| | SIGN. | | | | | | | | | |
| | INITIALS | | | | | | | | | |
| | REVISIONS | | | | | | | | | |
| P0 | SIGN. | | | | | | | | | |
| | INITIALS | GKJ | DG | MK | | | MK | DK | | 19-04-2022 |
| | REVISIONS | | | | | | | | | |
| ISSUE | | DRN | DSN | CHD | CV | EL | IC | ME | PE/PM | APPD. | DATE |
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SIGN. OF CLIENT:-

| JE | AE | EE | SE |
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File Name:12503A-CV-30625-Rev-P0

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

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

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

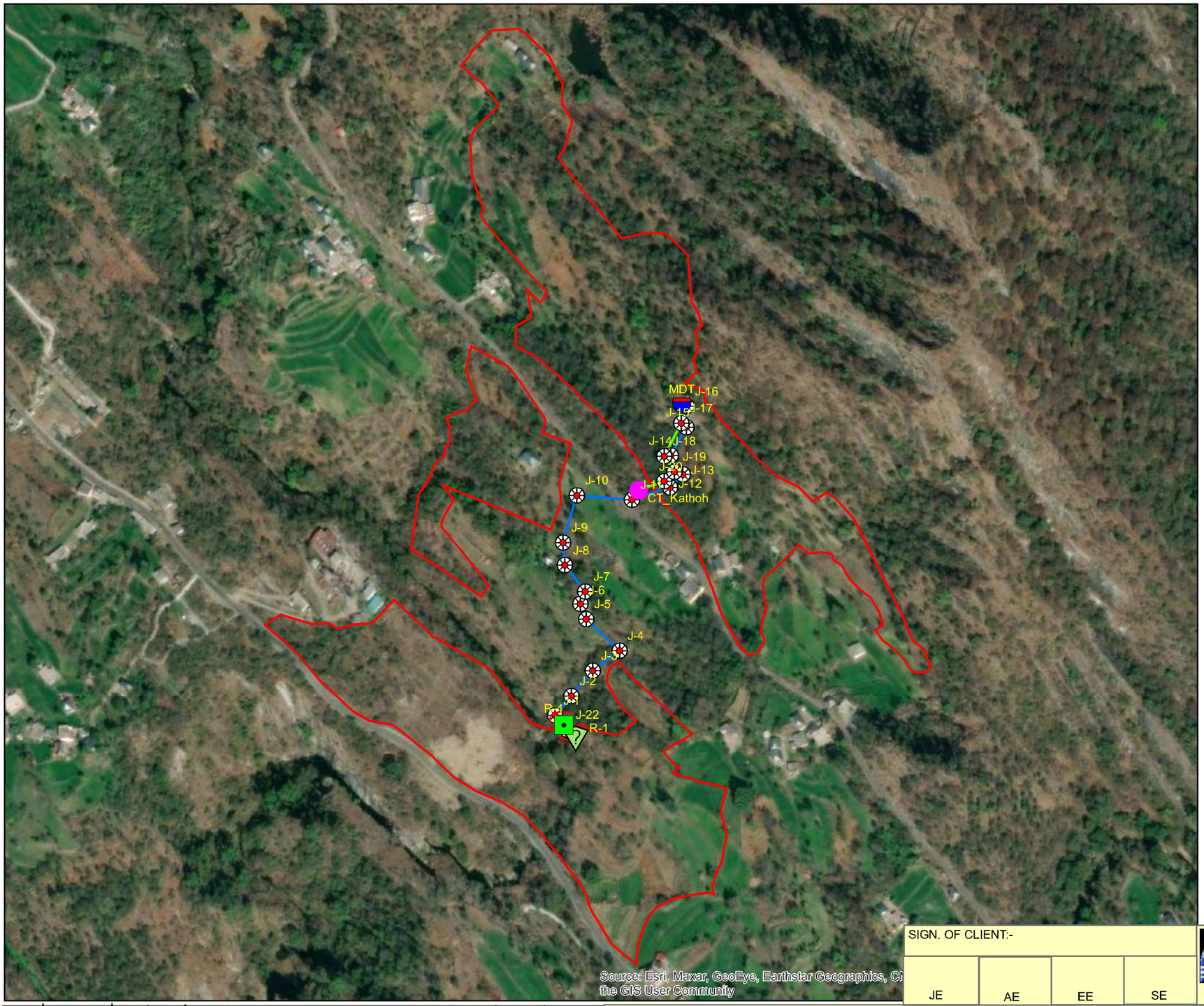
**TATA**CONSULTING ENGINEERS LIMITED.
MUMBAI

SCALE:- 1:3,000

DL.CEN.:- DEL-CV

DWG. No:- TCE.12503A-CV-3082-WS-30625

ISSUE:- P0



## Legend

- Source
- Tank
- MDT
- Pump
- CT
- Junction
- Rising_Main
- Gravity_Main
- Kathoh 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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| | INITIALS | GKJ | DG | MK | | | | | MK | DK | 19-04-2022 |
| | REVISIONS | | | | | | | | | | |
| ISSUE | | DRN | DSN | CHD | CV | EL | IC | ME | PE/PM | APPD. | DATE |
| | | | | | CLEARED | | | | | | |

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File Name:12503A-CV-30626-Rev-P0

TITLE:-

NETWORK DRAWING OF LIFT IRRIGATION SCHEME FOR KATHOH CLUSTER, BANGANA BLOCK, UNA DISTRICT.

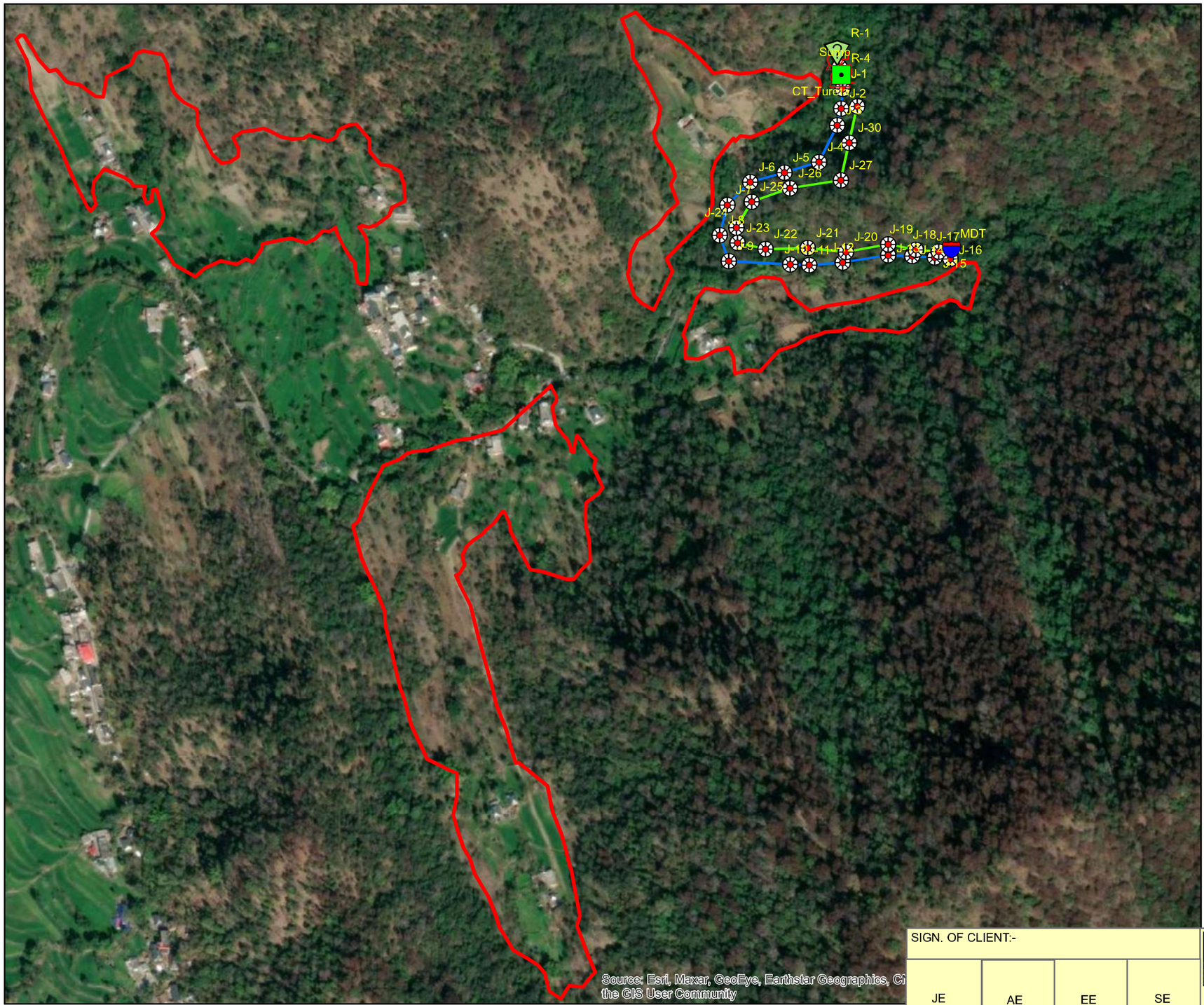
**TATA**CONSULTING ENGINEERS LIMITED.
MUMBAI

SCALE:- 1:4,500

DL.CEN.:- DEL-CV

DWG. No:- TCE.12503A-CV-3082-WS-30626

ISSUE:- P0



## Legend

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

| | | | | | | | | | | |
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| | SIGN. | | | | | | | | | |
| | INITIALS | | | | | | | | | |
| | REVISIONS | | | | | | | | | |
| P0 | SIGN. | | | | | | | | | |
| | INITIALS | GKJ | DG | MK | | | MK | DK | | 19-04-2022 |
| | REVISIONS | | | | | | | | | |
| ISSUE | | DRN | DSN | CHD | CV | EL | IC | ME | PE/PM | APPD. | DATE |
| | | | | | CLEARED | | | | | | |

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| JE | AE | EE | SE |
|---|---|---|---|
| | | | |

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File Name: 12503A-CV-30627-Rev-P0

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

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

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

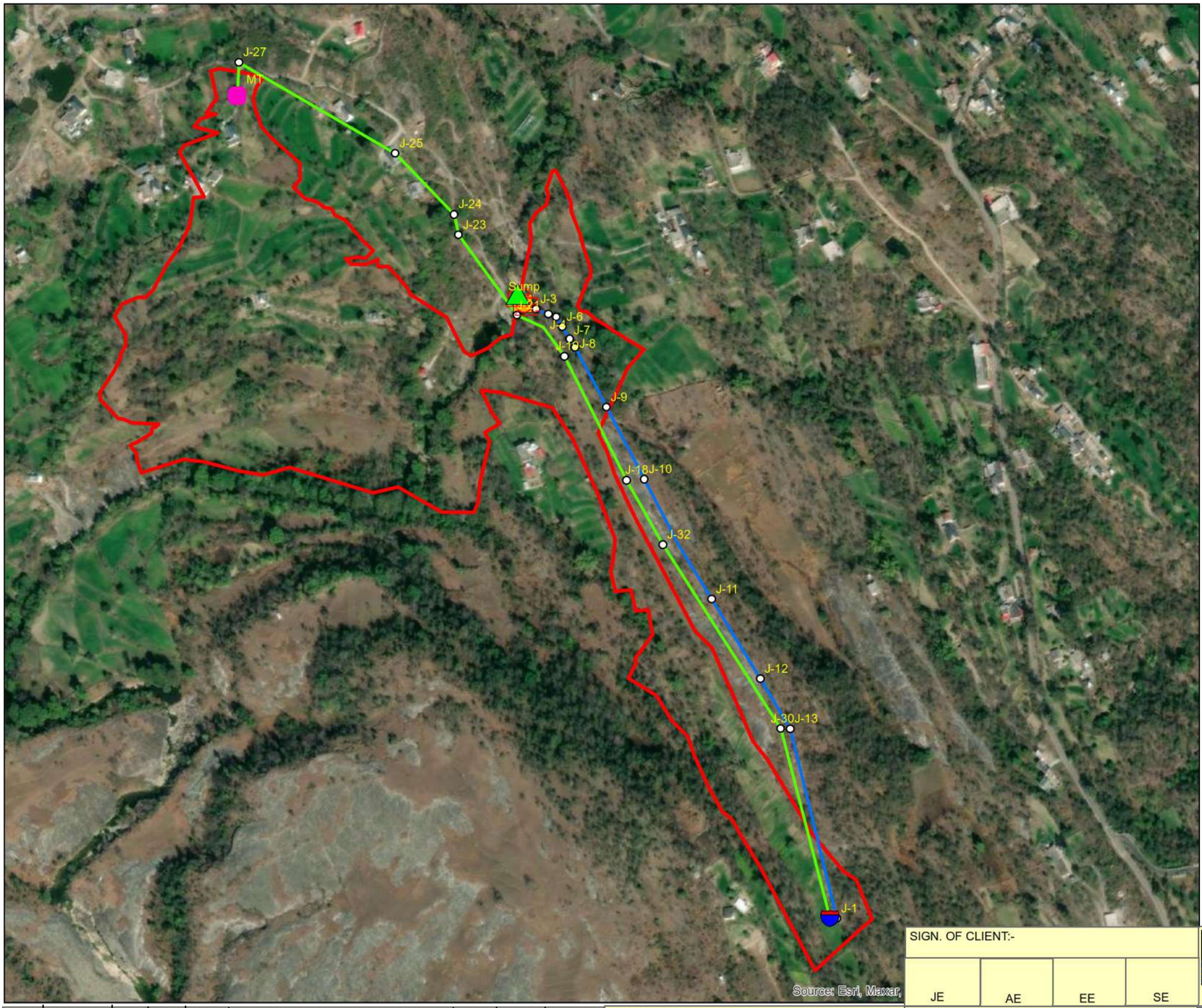
**TATA**CONSULTING ENGINEERS LIMITED. MUMBAI

SCALE:- 1:5,000

DL.CEN.:- DEL-CV

DWG. No:- TCE.12503A-CV-3082-WS-30627

ISSUE:- P0



## Legend

- Source
- MDT
- Pump
- MT
- SUMP
- Junction
- Rising Main 125mm Dia GI Pipe
- Gravity Main 100mm Dia GI Pipe
- BALH Cluster

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| P1 | SIGN. | | | | | | | | 27-05-2022 |
| | INITIALS | GKJ | DG | DVB | | MK | DK | | |
| | REVISIONS | As per Client Observation | | | | | | | |
| P0 | SIGN. | | | | | | | | 19-04-2022 |
| | INITIALS | GKJ | DG | DVB | | MK | DK | | |
| | REVISIONS | | | | | | | | |

| ISSUE | | DRN | DSN | CHD | CV | EL | IC | ME | | | PE/PM | APPD. | DATE |
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SIGN. OF CLIENT:-

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File Name: 12503A-CV-30628-Rev-P1

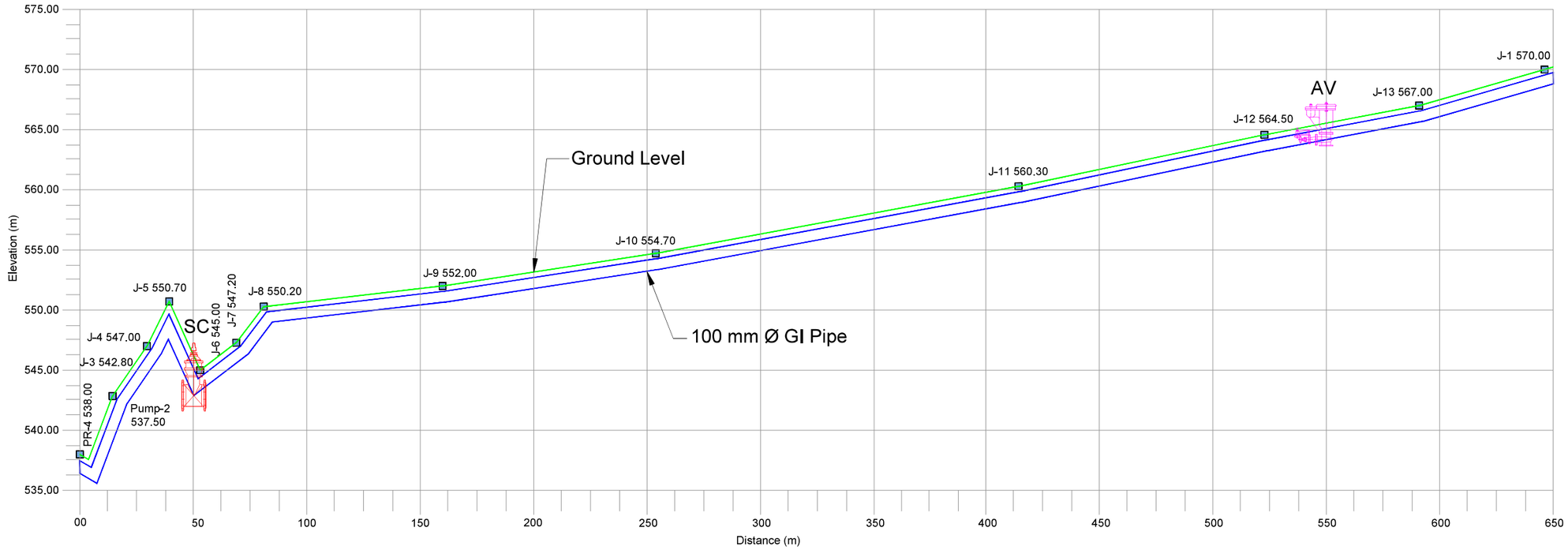
**DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)**

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

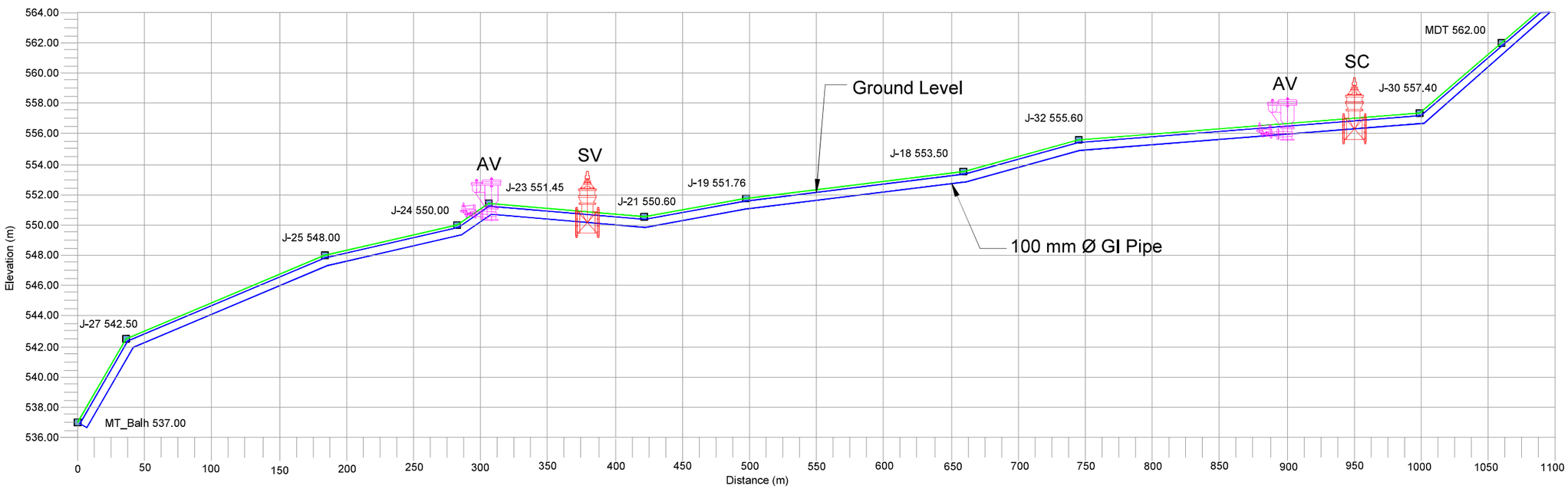
TITLE:- NETWORK DRAWING OF LIFT IRRIGATION SCHEME FOR BALH CLUSTER, BANGANA BLOCK, UNA DISTRICT.

**TATA**CONSULTING ENGINEERS LIMITED.
MUMBAI

| SCALE:- 1:5,000 | DWG. No:- | ISSUE:- |
|---|---|---|
| DL.CEN.:- DEL-CV | TCE.12503A-CV-3082-WS-30628 | P1 |




Proposed L-Section for LIS Balh (Rising Main)




Proposed L-Section for LIS Balh (Gravity Main)

Lengend :-

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

Note:-
These are Tentative Arrangements. Based on Actual Site Condition size, Quantity and Location of Proposed Valves May Vary.

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| P1 | SIGN. | | | | | | | | | | | | | 27-05-2022 |
| | INITIALS | BSN | DG | DVB | | | | | | | MK | DK | | |
| | REVISIONS | | | | | | | | | | | | | |
| P0 | SIGN. | | | | | | | | | | | | | 16-04-2022 |
| | INITIALS | BSN | DG | DVB | | | | | | | MK | DK | | |
| | REVISIONS | | | | | | | | | | | | | |
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FILE NAME 12503A-CV-30645-Rev-P1

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L-SECTION FOR LIS BALH

BANGANA BLOCK, UNA DISTRICT

TATA CONSULTING ENGINEERS LIMITED

MUMBAI

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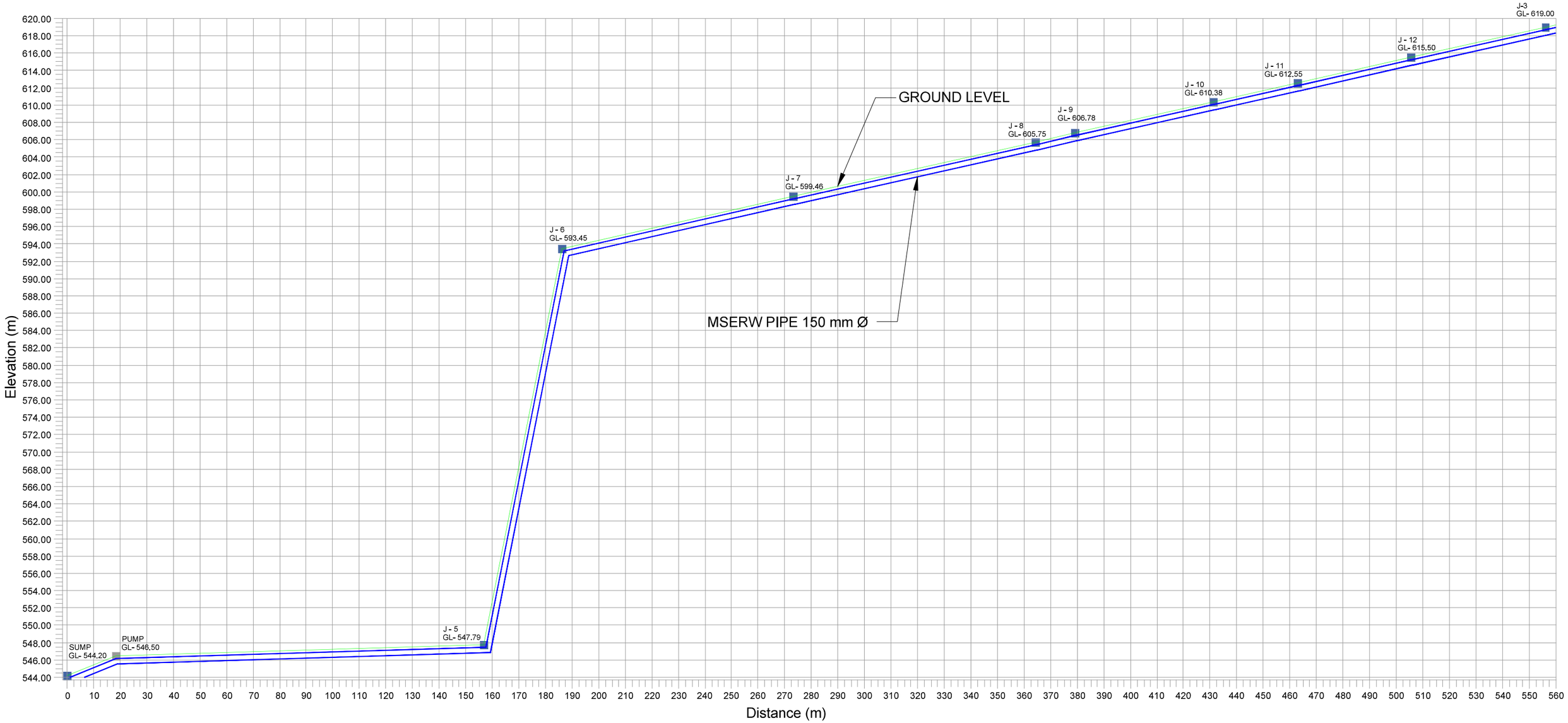
| SCALE : NTS | DWG NO. TCE-12503A-CV-3082-WS-30645 | | ISSUE P1 |
| DC & DISC: DEL-CV | | | |

LEGEND:-

1. GROUND LEVEL
2. RISING MAIN
3. JUNCTION

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| P0 | SIGN. | | | | | | | | | | | | | |
| | INITIALS | BSN | DVB | DG | | | | | | | MK | DK | 16-04-2022 | |
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SIGN. OF CLIENT:-

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FILE NAME 12503A-CV-30646-Rev-P0

DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

PROPOSED L-SECTION FOR LIS BARAL

BANGANA BLOCK, UNA DISTRICT

TATA CONSULTING ENGINEERS LIMITED

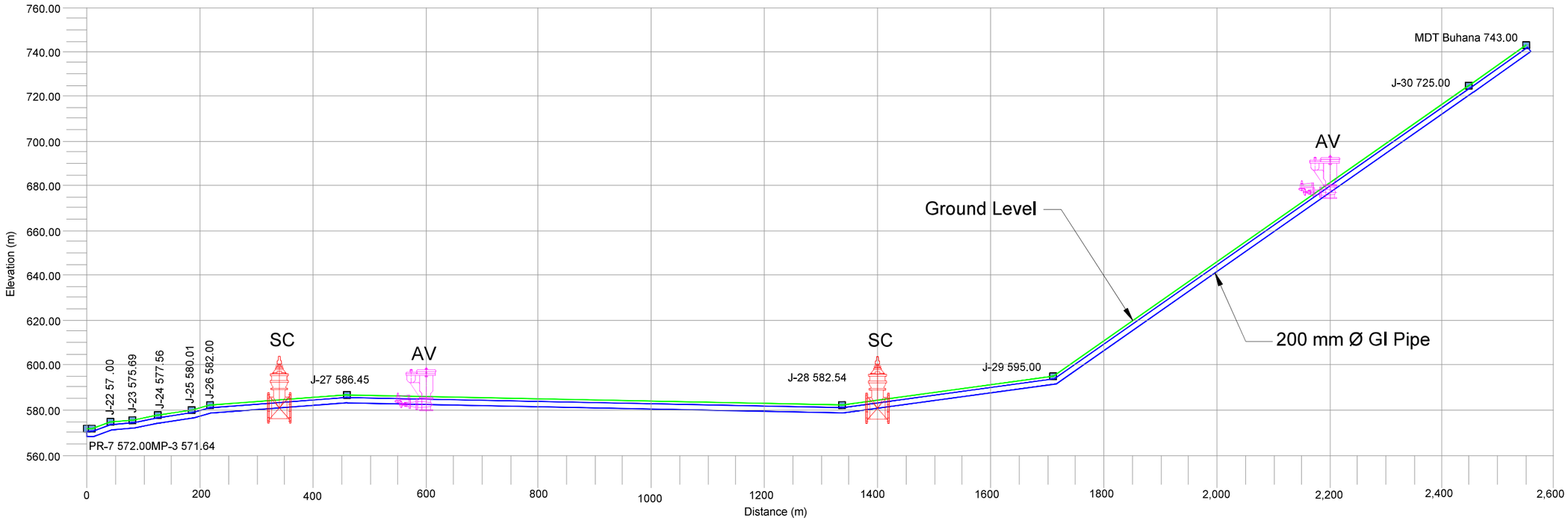
MUMBAI

SCALE : NTS

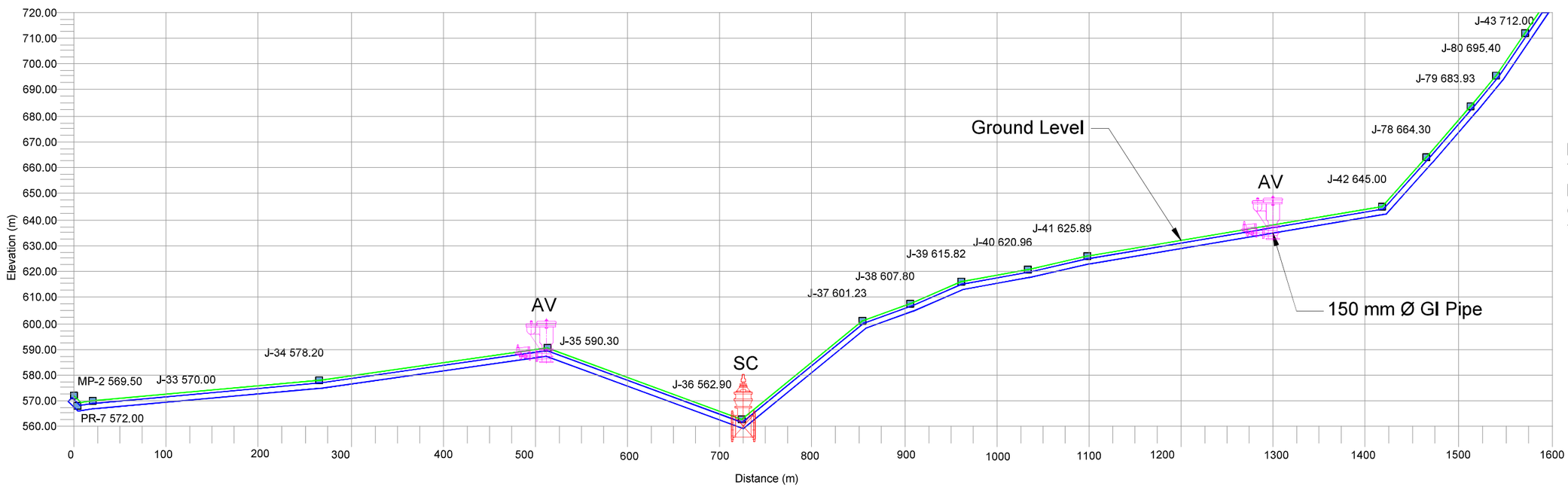
DC & DISC: DEL-CV

DWG NO. TCE-12503A-CV-3082-WS-30646

ISSUE P0




Proposed L-Section for LIS Buhana




Proposed L-Section for LIS Charoli

Lengend :-

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

Note:-
These are Tentative Arrangements. 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 FOR LIS BUHANA & CHAROLI
BANGANA BLOCK, UNA DISTRICT

TATA CONSULTING ENGINEERS LIMITED
MUMBAI

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P1 | SIGN. | | | | | | | | | | | | | 27-05-2022 |
| | INITIALS | BSN | DG | DVB | | | | | | | MK | DK | | |
| | REVISIONS | | | | | | | | | | | | | |
| P0 | SIGN. | | | | | | | | | | | | | 16-04-2022 |
| | INITIALS | BSN | DG | DVB | | | | | | | MK | DK | | |
| | REVISIONS | | | | | | | | | | | | | |
| ISSUE | | DRN | DSN | CHD | CV | EL | IC | ME | | | PE/PM | APPD | DATE (dd-mm-yyyy) | |
| | | | | | CLEARED | | | | | | | | | |

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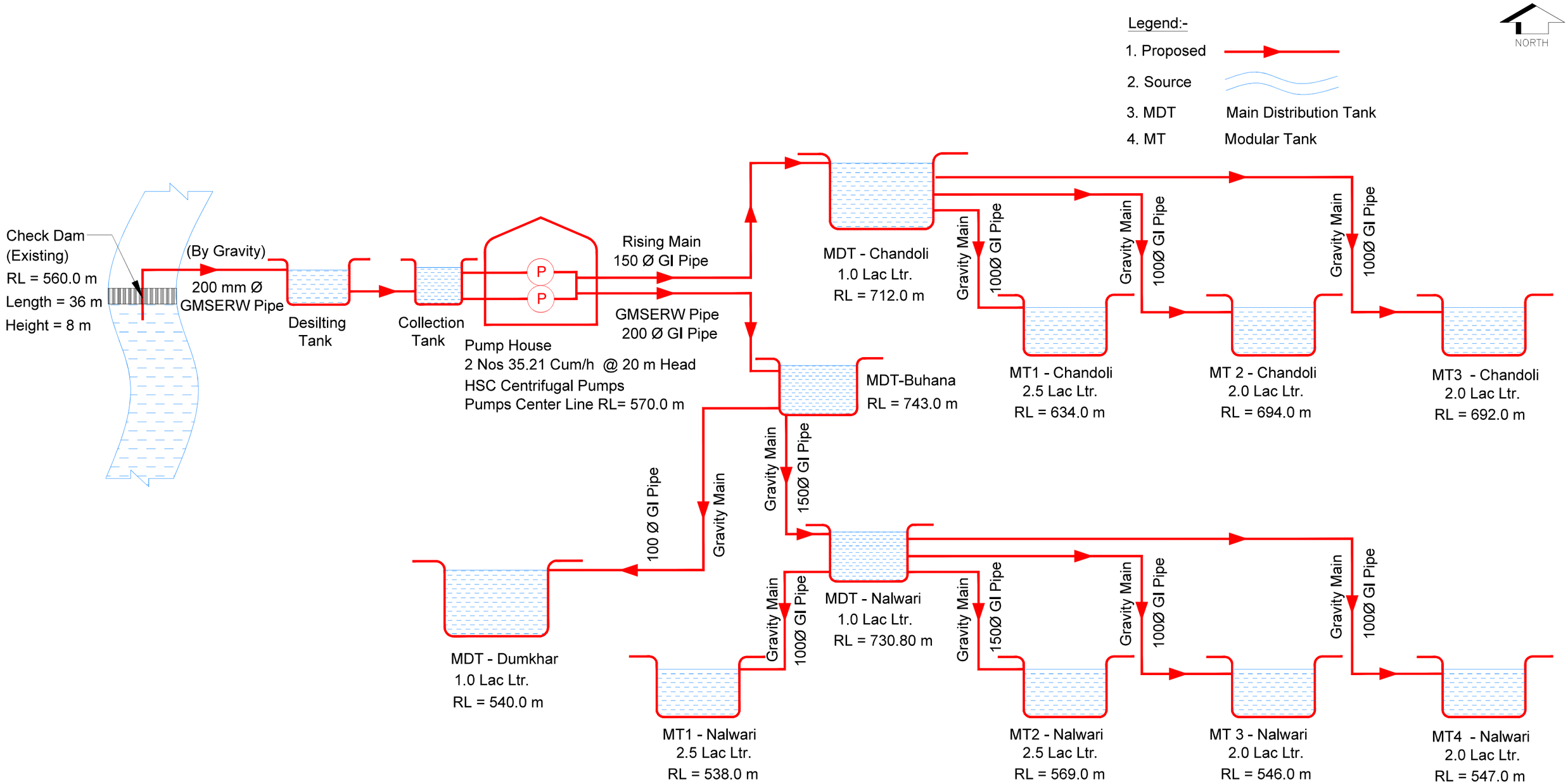
ISSUE P1




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

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P1 | SIGN. | | | | | | | | | | | | | 27-05-2022 |
| | INITIALS | BSN | DG | DVB | | | | | | | MK | DK | | |
| | REVISIONS | AS PER CLIENT REQUIREMENT | | | | | | | | | | | | |
| P0 | SIGN. | | | | | | | | | | | | | 16-04-2022 |
| | INITIALS | BSN | DG | DVB | | | | | | | MK | DK | | |
| | REVISIONS | | | | | | | | | | | | | |
| ISSUE | | DRN | DSN | CHD | CV | EL | IC | ME | | | PE/PM | APPD | DATE (dd-mm-yyyy) | |
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DETAILED DESIGN CONSULTANCY, HP-SHIVA (PACKAGE CS09)

IRRIGATION, HORTICULTURE, ORCHARDS AND VALUE CHAIN DEVELOPMENT

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

TATA CONSULTING ENGINEERS LIMITED
MUMBAI

| | | |
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