

ROOM DETAILS				
S.N	UNIT	MOC	DIMENSIONS	QTY.
A	RAW SEWAGE PUMP HOUSE	RCC+BRICK	(3m X 3m X 3m)	01
B	SBR AIR BLOWER ROOM	RCC+BRICK	(5m X 6m X 4m)	01
C	CENTRIFUGE FEED PUMP HOUSE	RCC+BRICK	(4m X 6m X 4m)	01
D	CENTRIFUGE HOUSE	RCC+BRICK	(6.5m X 6m X 4m)	01
E	DG & CONTROL ROOM	RCC+BRICK	(7.3m X 6m X 4.5m)	01
F	FILTER FEED PUMP ROOM	RCC+BRICK	(2.5m X 2.5m X 3m)	01

UNIT DETAILS:					
S.N	UNIT	MOC	CAPACITY	DIMENSIONS	QTY.
01	INLET CHAMBER	RCC	5.625 M3	(2.50m X 1.5m X 1.5m)	02
02	SCREEN CHAMBER	RCC	18 M3	(4.80m X 2.5m X 1.5m)	02
03	GRIT CHAMBER	RCC	18.375M3	(3.50m X 3.50m X 1.50m)	02
4A	SUMP WELL 1	RCC	300 M3	(10.0m X 10.0m X 3.0m)	01
4B	SUMP WELL 2	RCC	75 M3	(5.0m X 5.0m X 3.0m)	01
05	SELECTOR ZONE	RCC	----	(12.0m X 4.0m X 5.50m)	02
06	SBR TANK 1	RCC	1650 M3	(25.0m X 12.0m X 5.50m)	01
07	SBR TANK 2	RCC	1650 M3	(25.0m X 12.0m X 5.50m)	01
08	DOSING CUM FILTER FEED TANK	RCC	350.07 M3	(12.73m X 5.0m X 5.50m)	01
09	PRESSURIZED SAND FILTER (PSF)	MS	22.06M3	Ø 2.82 M,HT 2.00M	02
10	ACTIVATED CARBON FILTER (ACF)	MS	22.06 M3	Ø 2.82 M,HT 2.00M	02
11	TREATED WATER TANK	RCC	300 M3	(12.5m X 6.0m X 4.0m)	01
12	SLUDGE HOLDING TANK	RCC	36.75 M3	(3.5m X 3.5m X 3.0m)	01
13	DWPE DOSING TANK	RCC	2.0M3	(1.0m X 1.0m X 1.0m)	02
14	SLUDGE DRYING BED	RCC	88.43 M3	(17.0m X 2.89m X 0.9m)	02

NOTES:-

- 1) ALL DIMENSIONS ARE IN METRE
- 2) DIMENSIONS ARE NOT TO BE SCALED FROM DRAWING.
- 3) THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION UNLESS APPROVED BY COMPETENT AUTHORITY
- 4) LEVELS CONSIDERING GROUND AS 0.0
- 5) ASSUMPTIONS FOR BILL OF QUANTITIES
RAFT OFFSET: 0.3M, 0.4M & RAFT DEPTH : 0.4 M, 0.3M
PCC OFFSET : 0.15 M PCC DEPTH : 0.15 M
SOLING OFFSET : 0.3 M SOLING DEPTH : 0.30 M
DIMENSIONS MENTIONED BELOW UNITS ARE CAPACITIES ONLY
- 6) RCC M30 REINFORCED WITH Fe 500

PROJECT FOR- RAMNAGAR, BIHAR, BUIDCO

PROJECT BY-
CSIR - NATIONAL ENVIRONMENTAL ENGINEERING RESEARCH INSTITUTE

SCALE - 1:1
BEST PRINT VIEW IN A3 TO A1 SIZE PAPER

Dwg No.- D1

Revision No.- R0 DATE-02/08/2022

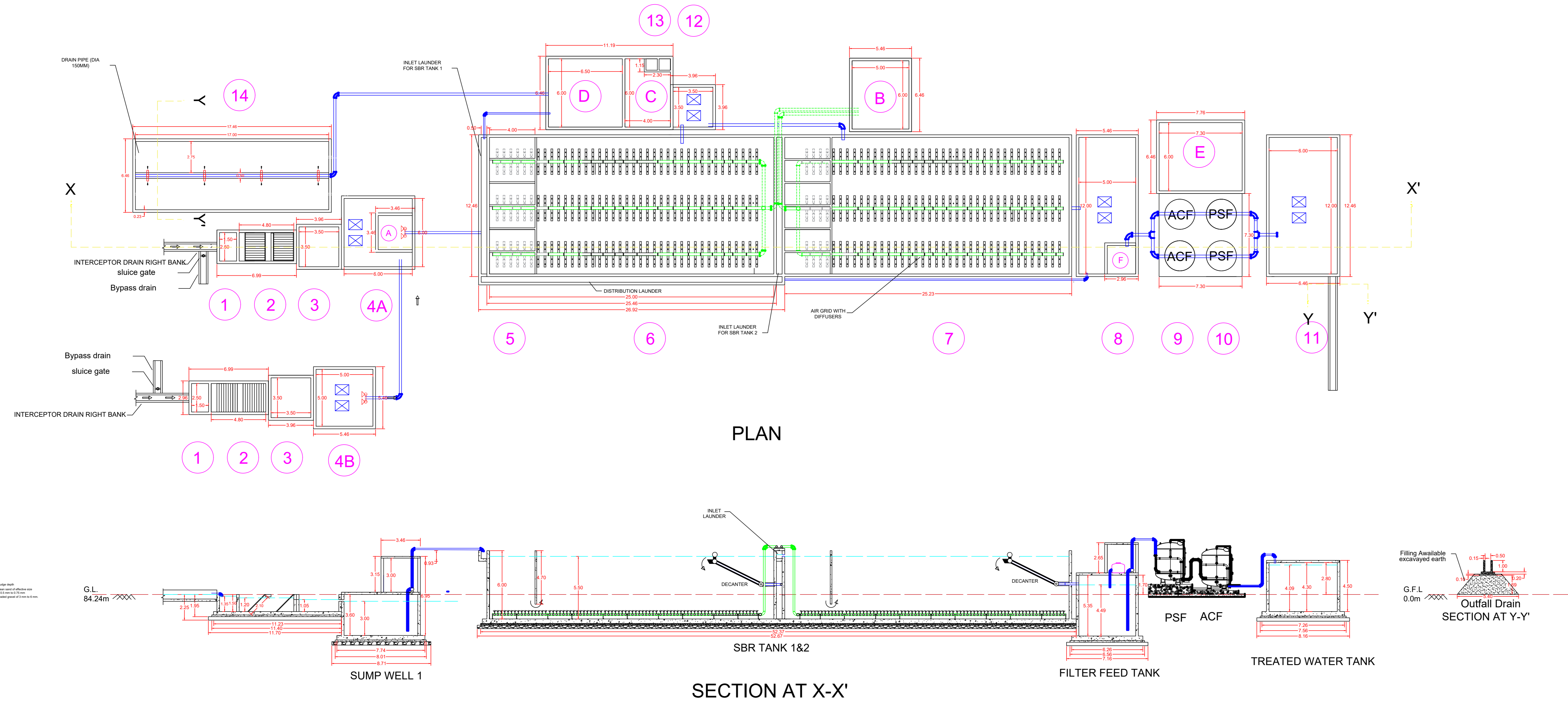
DWG.TITLE-
PLAN AND LAYOUT 4.5 MLD STP

PLACEMENT OF STP IS BEFORE AQUEDUCT

SBR TECHNOLOGY

Prepared By - CSIR- NEERI

Reviewed By-
Approved By-



PLAN

SECTION AT X-X'

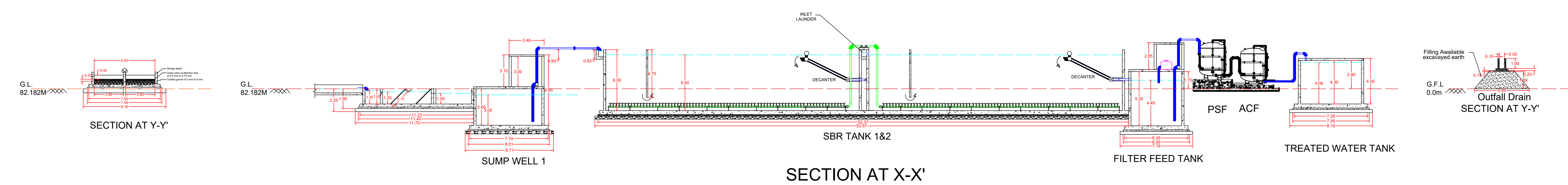
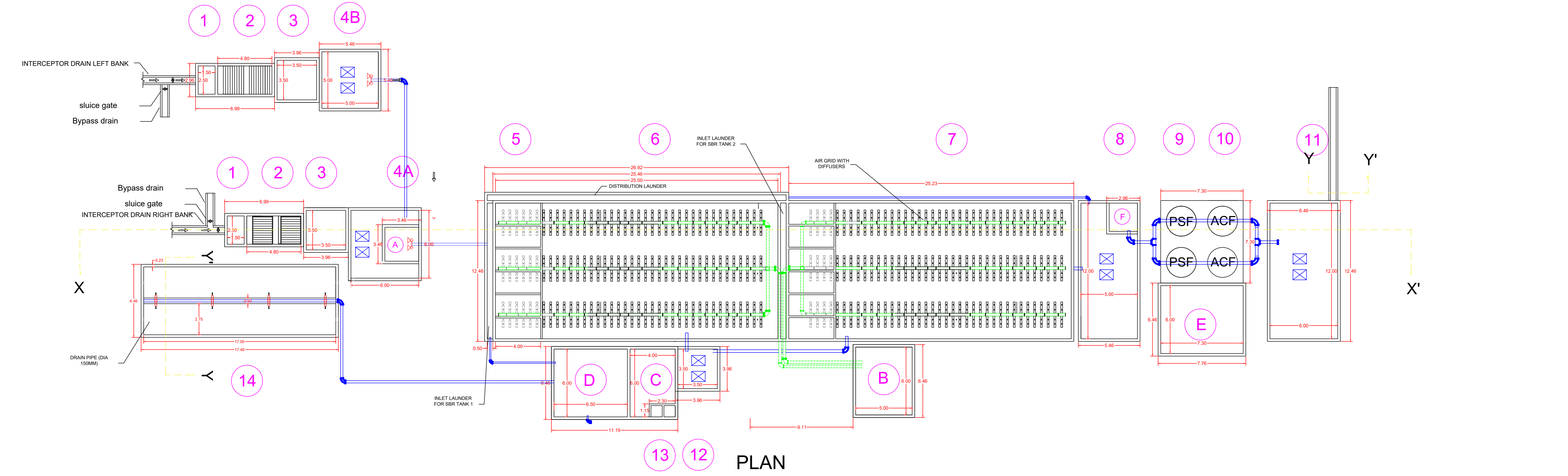
ROOM DETAILS				
S.N	UNIT	MOC	DIMENSIONS	QTY.
A	RAW SEWAGE PUMP HOUSE	RCC+BRICK	(3m X 3m X 3m)	01
B	SBR AIR BLOWER ROOM	RCC+BRICK	(5m X 6m X 4m)	01
C	CENTRIFUGE FEED PUMP HOUSE	RCC+BRICK	(4m X 6m X 4m)	01
D	CENTRIFUGE HOUSE	RCC+BRICK	(6.5m X 6m X 4m)	01
E	DG & CONTROL ROOM	RCC+BRICK	(7.3m X 6m X 4.5m)	01
F	FILTER FEED PUMP ROOM	RCC+BRICK	(2.5m X 2.5m X 3m)	01

UNIT DETAILS:					
S.N	UNIT	MOC	CAPACITY	DIMENSIONS	QTY.
01	INLET CHAMBER	RCC	5.625 M3	(2.50m X 1.5m X 1.5m)	02
02	SCREEN CHAMBER	RCC	18 M3	(4.80m X 2.5m X 1.5m)	02
03	GRIT CHAMBER	RCC	18.375M3	(3.50m X 3.50m X 1.50m)	02
4A	SUMP WELL 1	RCC	300 M3	(10.0m X 10.0m X 3.0m)	01
4B	SUMP WELL 2	RCC	75 M3	(5.0m X 5.0m X 3.0m)	01
05	SELECTOR ZONE	RCC	----	(12.0m X 4.0m X 5.50m)	02
06	SBR TANK 1	RCC	1650 M3	(25.0m X 12.0m X 5.50m)	01
07	SBR TANK 2	RCC	1650 M3	(25.0m X 12.0m X 5.50m)	01
08	DOSING CUM FILTER FEED TANK	RCC	350.07 M3	(12.73m X 5.0m X 5.50m)	01
09	PSF	MS	----	Ø 2.65 M, HT 2.00M	02
10	ACF	MS	----	Ø 2.65 M, HT 2.00M	02
11	TREATED WATER TANK	RCC	300 M3	(12.5m X 6.0m X 4.0m)	01
12	SLUDGE HOLDING TANK	RCC	36.75 M3	(3.5m X 3.5m X 3.0m)	01
13	DWPE DOSING TANK	RCC	2.0M3	(1.0m X 1.0m X 1.0m)	02
14	SLUDGE DRYING BED	RCC	88.43 M3	(17.0m X 2.89m X 0.9m)	02

NOTES:-

- 1) ALL DIMENSIONS ARE IN METRE
- 2) DIMENSIONS ARE NOT TO BE SCALED FROM DRAWING.
- 3) THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION UNLESS APPROVED BY COMPETENT AUTHORITY
- 4) LEVELS CONSIDERING GROUND AS 0.0
- 5) ASSUMPTIONS FOR BILL OF QUANTITIES
RAFT OFFSET: 0.3M, 0.4M & RAFT DEPTH : 0.4 M, 0.3M
PCC OFFSET : 0.15 M PCC DEPTH : 0.15 M
SOLING OFFSET : 0.3 M SOLING DEPTH : 0.30 M
DIMENSIONS MENTIONED BELOW UNITS ARE CAPACITIES ONLY
- 6) RCC M30 REINFORCED WITH Fe 500

PROJECT FOR- RAMNAGAR, BIHAR, BUIDCO



PROJECT BY-
CSIR - NATIONAL ENVIRONMENTAL ENGINEERING RESEARCH INSTITUTE

SCALE - 1:1

BEST PRINT VIEW IN A3 TO A1 SIZE PAPER

Dwg No.- D2

Revision No.- R0 DATE-02/08/2022

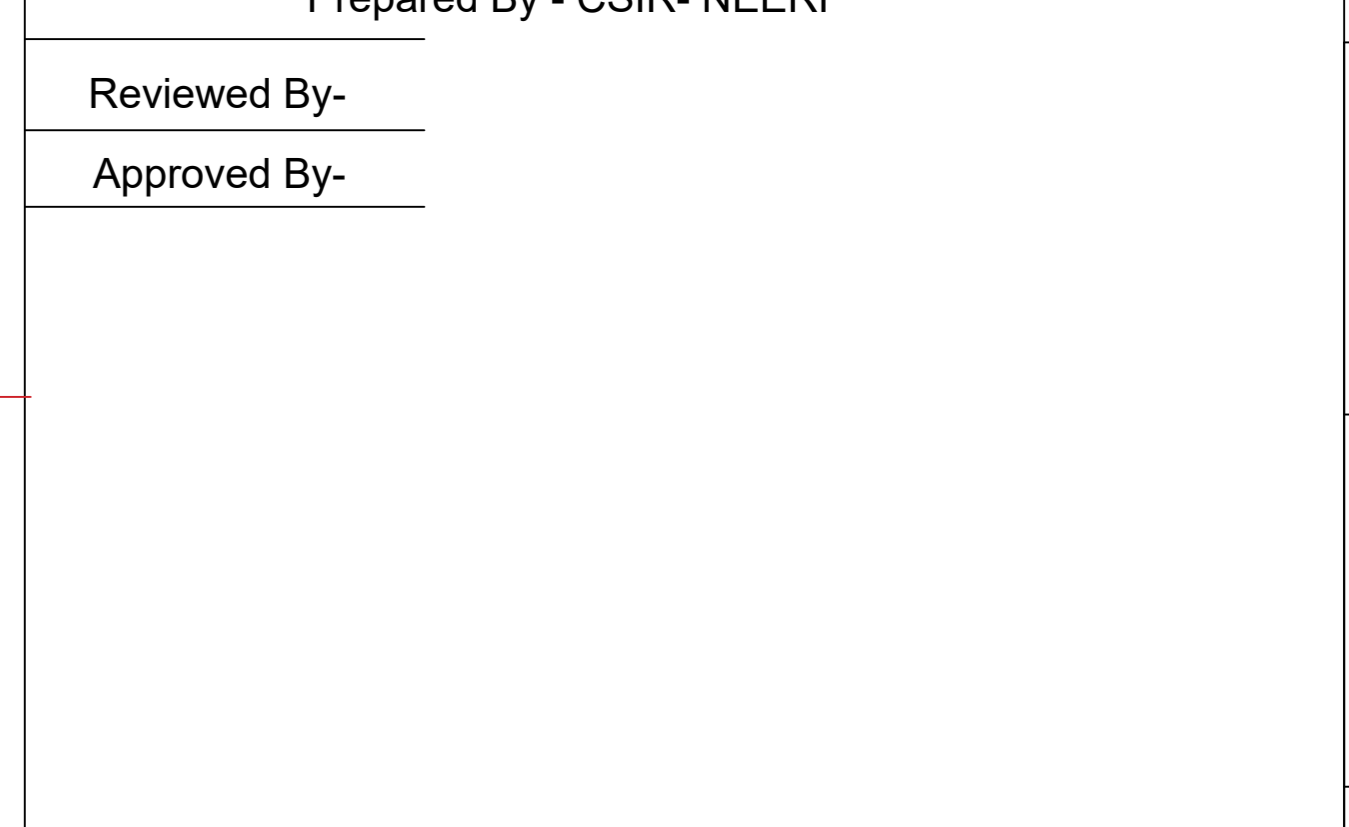
DWG.TITLE-
PLAN AND LAYOUT 4.5 MLD STP

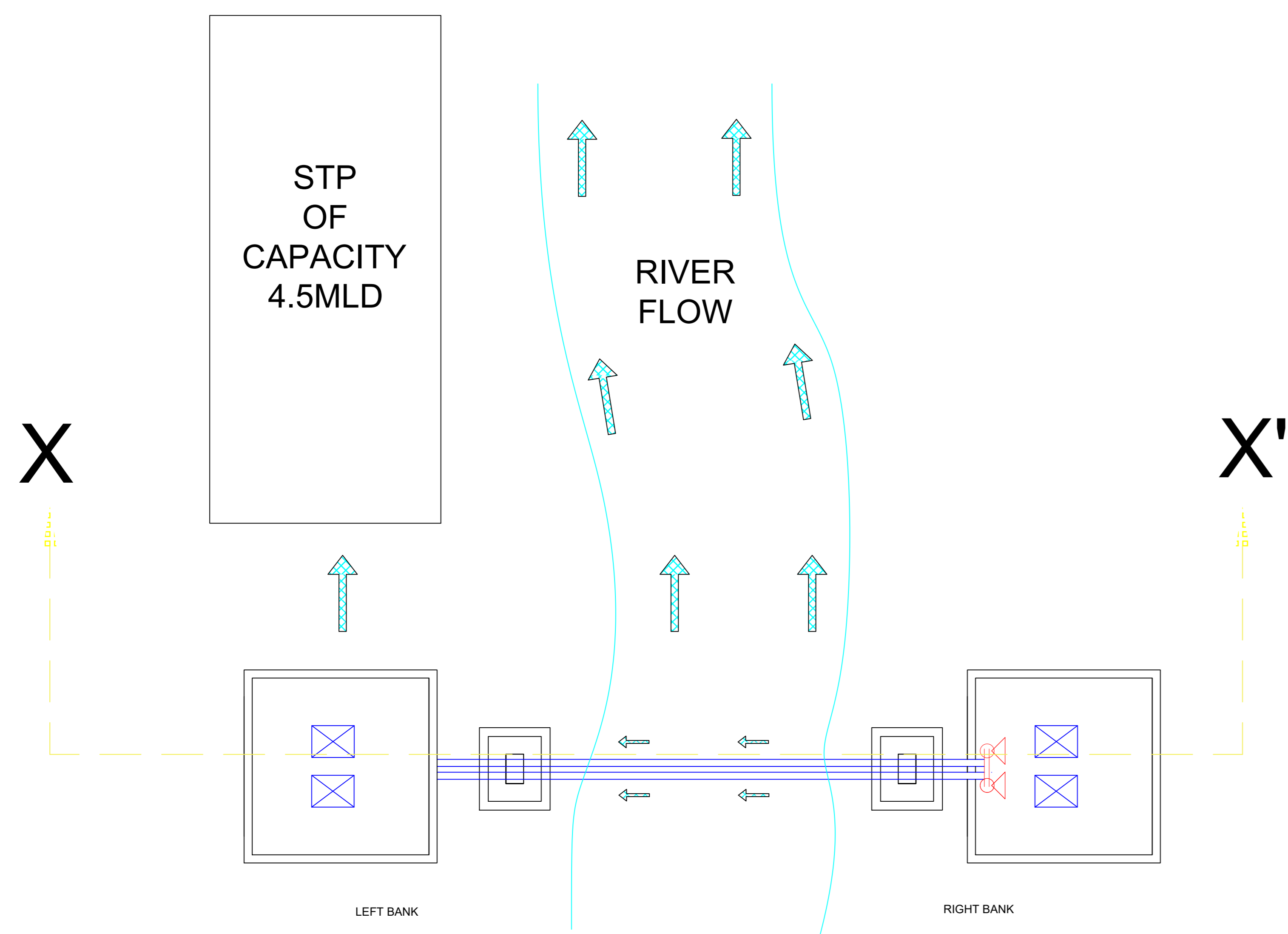
PLACEMENT OF STP IS AFTER AQUEDUCT

SBR TECHNOLOGY

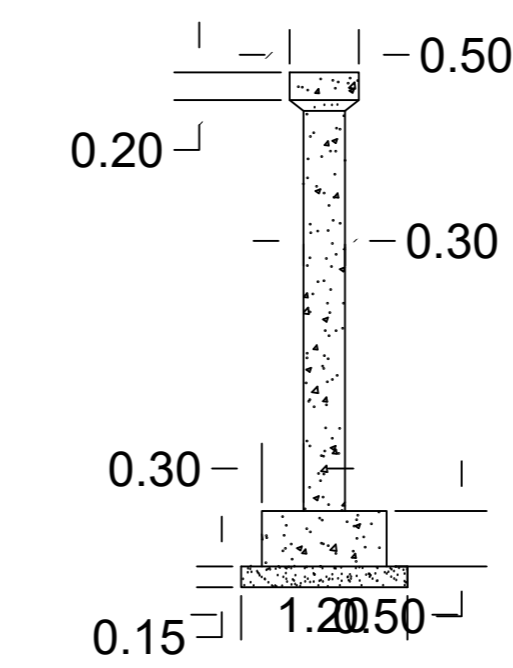
Prepared By - CSIR- NEERI

Reviewed By-
Approved By-

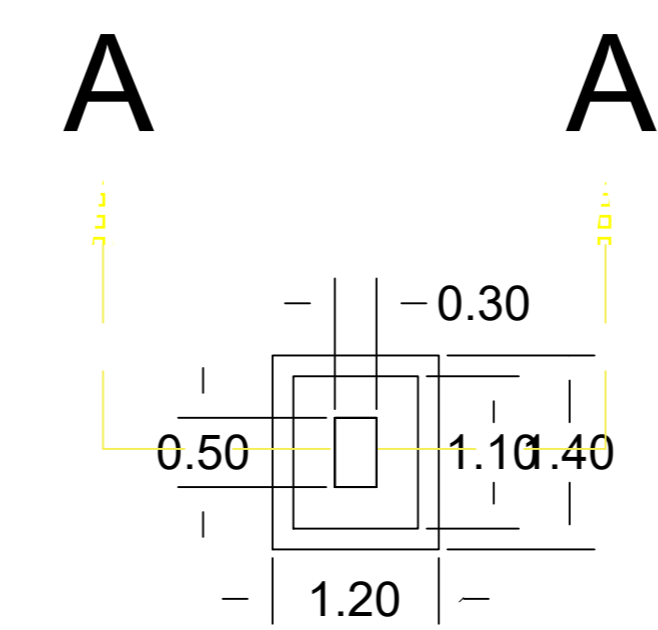




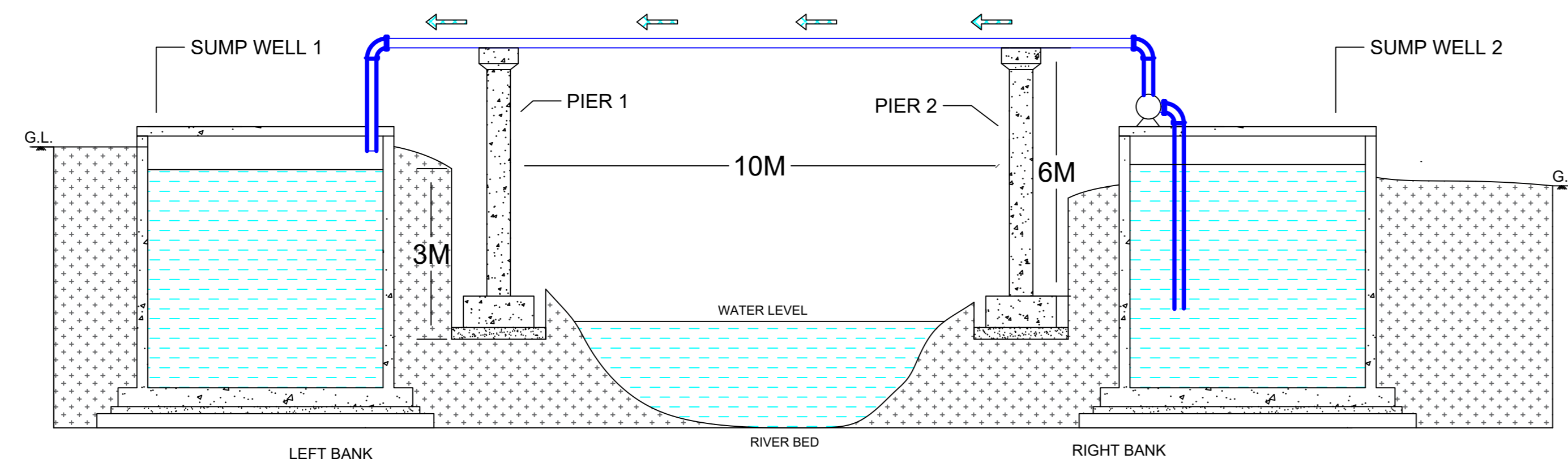
LOCATION PLAN



SECTION AT A-A'



TYPICAL PLAN OF PIER



SECTION AT X-X'

NOTES:-

- 1) ALL DIMENSIONS ARE IN METRE
- 2) DIMENSIONS ARE NOT TO BE SCALED FROM DRAWING.
- 3) THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION UNLESS APPROVED BY COMPETENT AUTHORITY

PROJECT FOR- BUIDCO

PROJECT BY-

CSIR - NATIONAL ENVIRONMENTAL ENGINEERING RESEARCH INSTITUTE

SCALE - 1:1

BEST PRINT VIEW IN A3 TO A1 SIZE PAPER

Dwg No.- D3

Revision No.- R0

DATE-02/08/2022

DWG.TITLE-

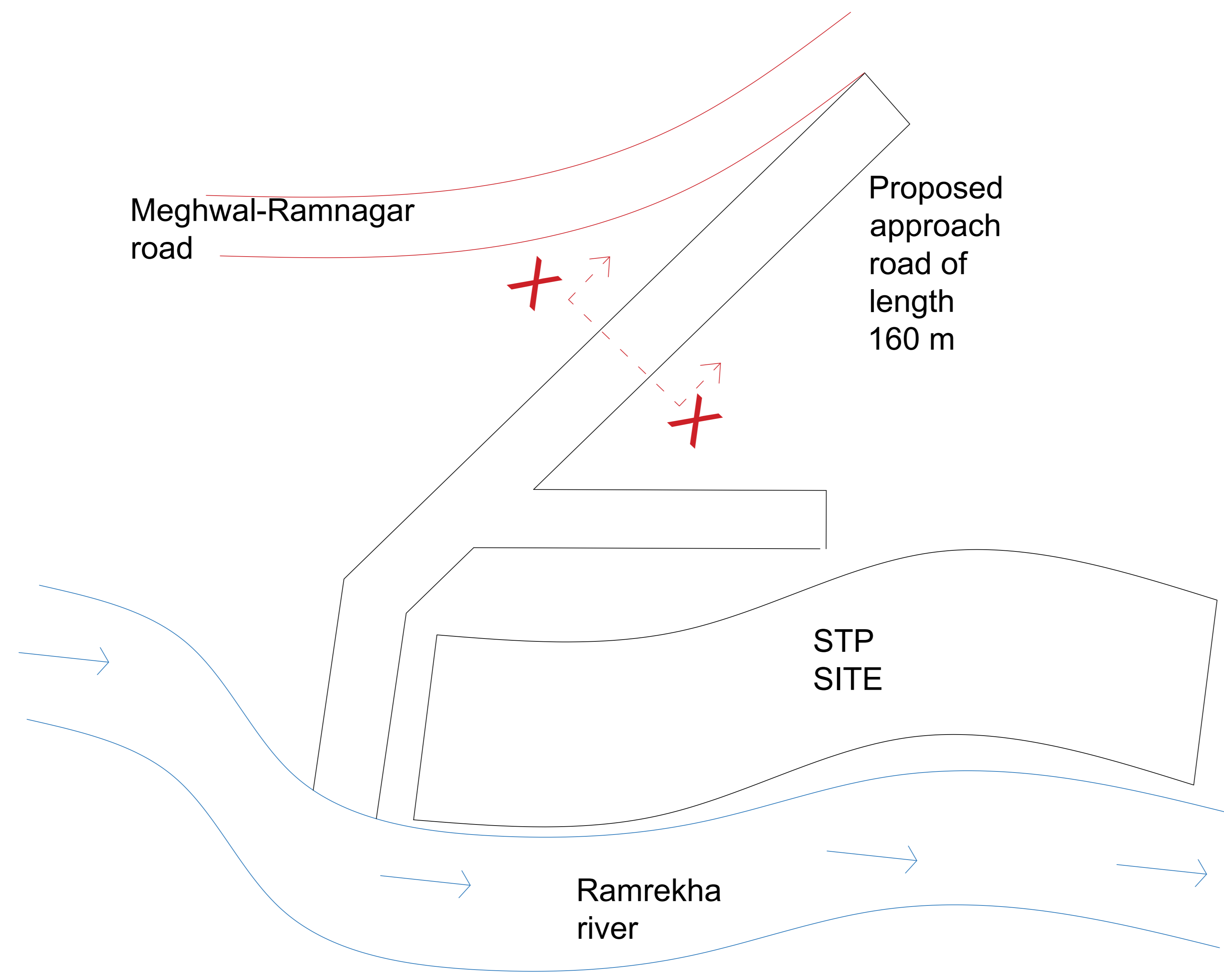
Diversion of sewage from right bank I & D sump to Left bank STP sump

Ramnagar

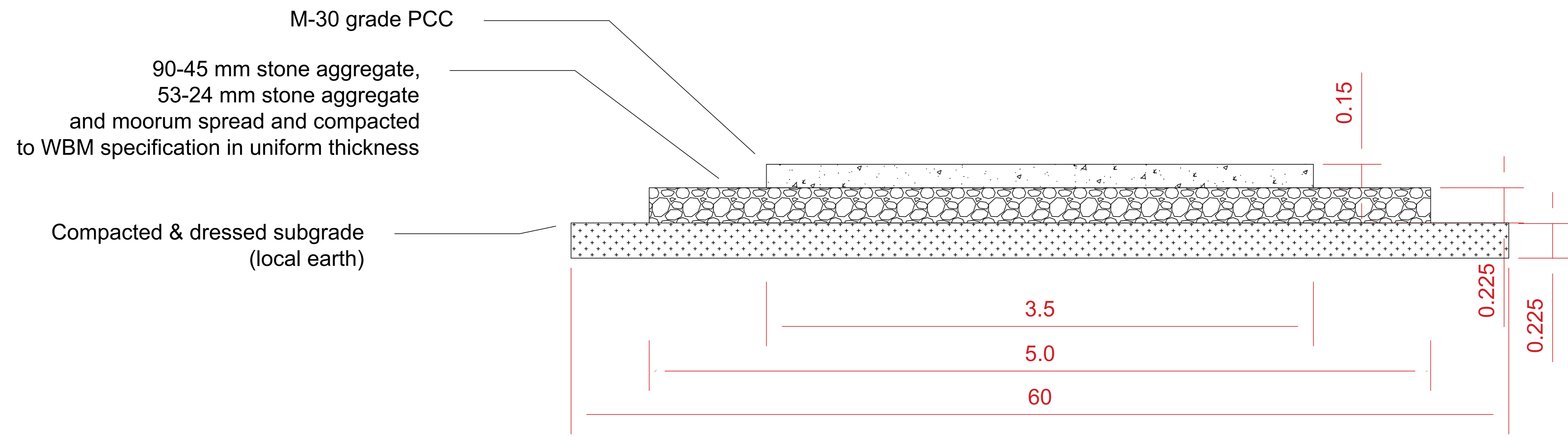
Prepared By - NEERI Nagpur

Reviewed By-

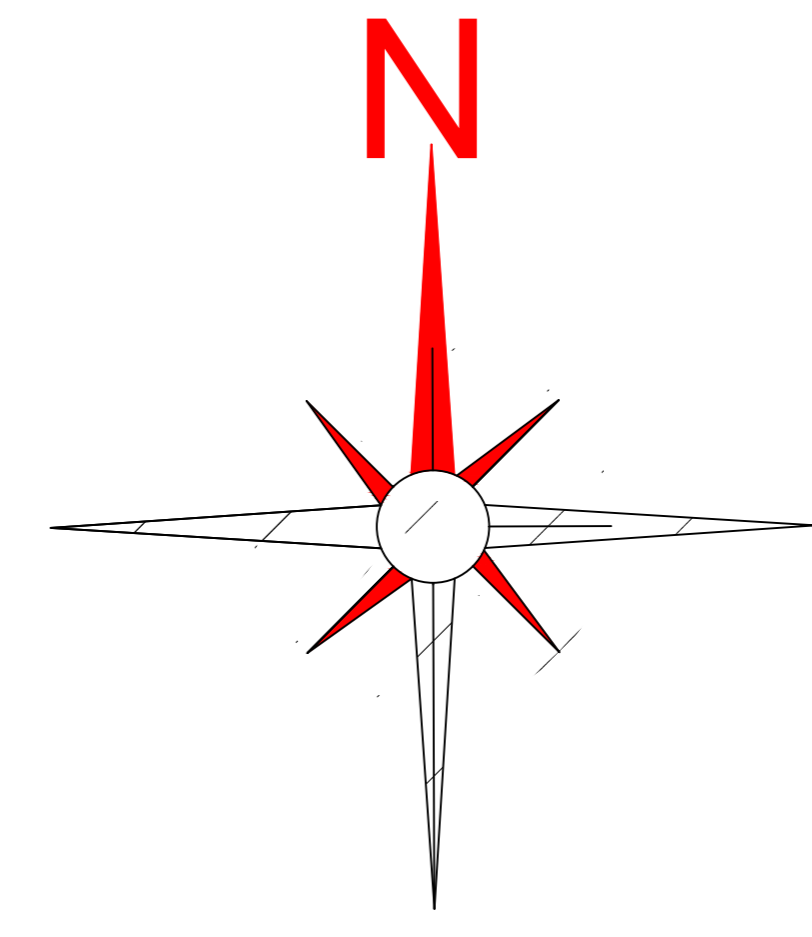
Approved By-



PLAN



SECTION XX'



NOTES:-

- 1) ALL DIMENSIONS ARE IN METRE
- 2) DIMENSIONS ARE NOT TO BE SCALED FROM DRAWING.
- 3) THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION UNLESS APPROVED BY COMPETENT AUTHORITY
- 4) LEVELS CONSIDERING GROUND AS 0.0
- 5) PCC M30

PROJECT FOR- RAMNAGAR, BIHAR, BUIDCO

PROJECT BY-

CSIR - NATIONAL ENVIRONMENTAL ENGINEERING RESEARCH INSTITUTE

SCALE - 1:1

BEST PRINT VIEW IN A3 TO A1 SIZE PAPER

Dwg No.- D4

Revision No.- R0

DATE-01.08.2022

DWG.TITLE-

PLAN AND SECTION VIEW OF APPROACH ROAD FOR STP BEFORE AQUEDUCT (RAMNAGAR)

BEFORE AQUEDUCT

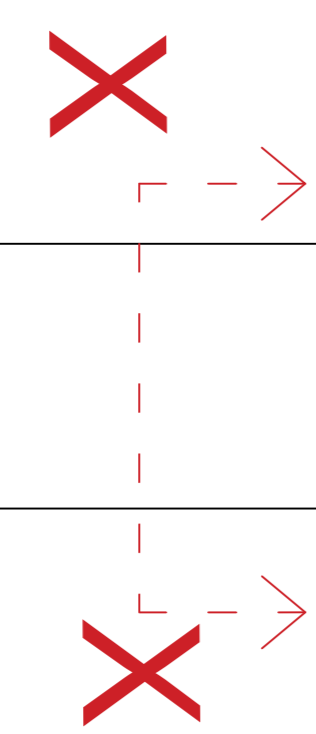
PCC ROAD

Prepared By - CSIR- NEERI

Reviewed By-

Approved By-

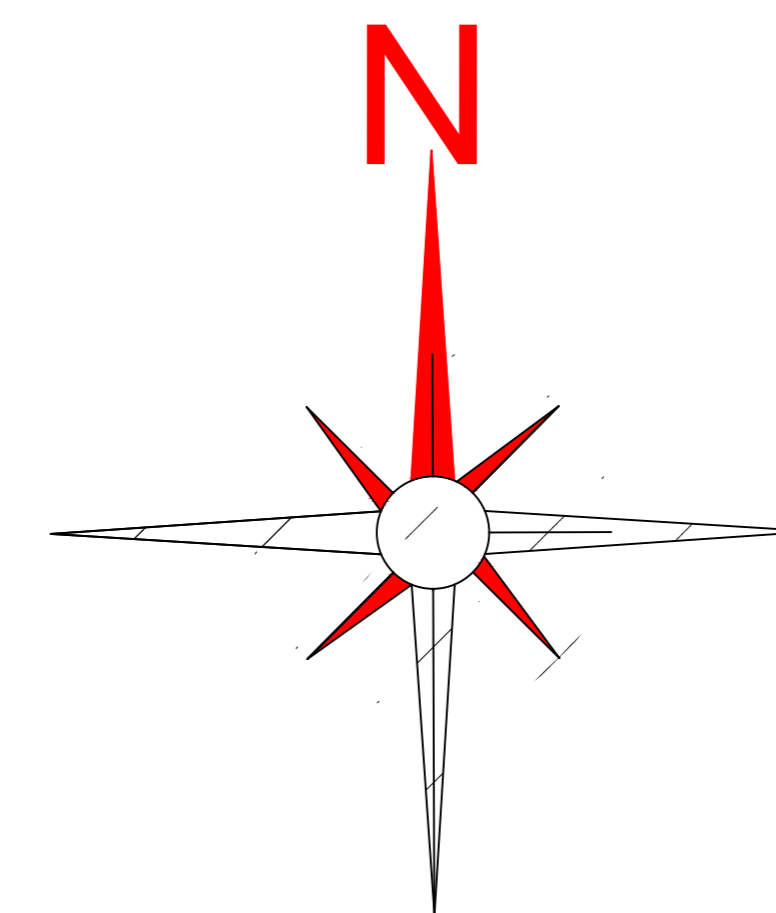
LAURIYA-RAMNAGAR ROAD



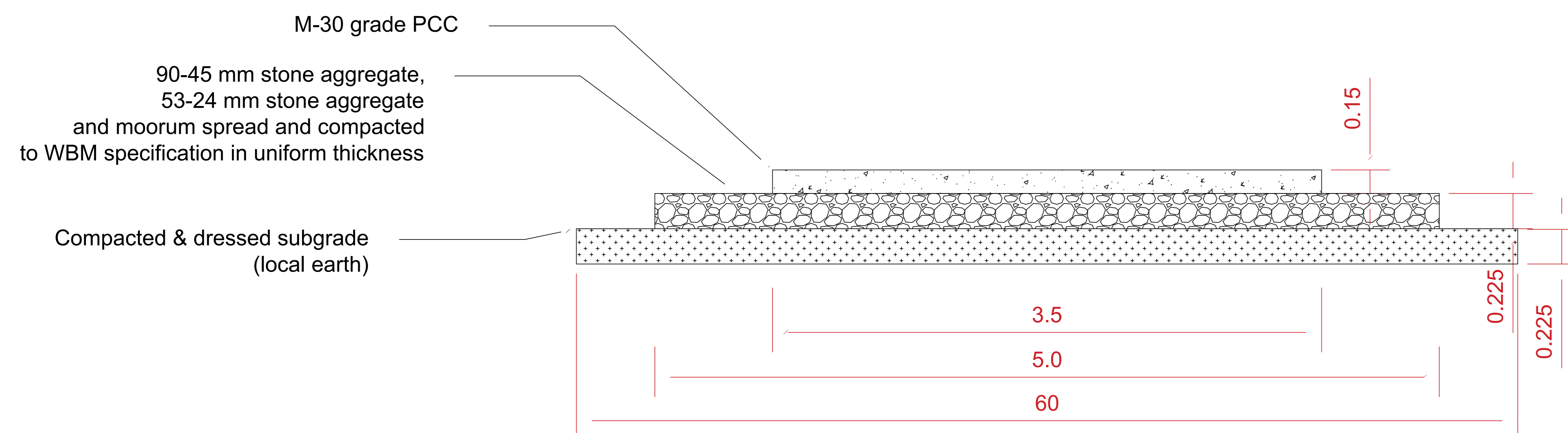
Proposed approach road
of length 300 m

STP
SITE

Ramrekha
river



PLAN



SECTION XX'

NOTES:-

- 1) ALL DIMENSIONS ARE IN METRE
- 2) DIMENSIONS ARE NOT TO BE SCALED FROM DRAWING.
- 3) THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION UNLESS APPROVED BY COMPETENT AUTHORITY
- 4) LEVELS CONSIDERING GROUND AS 0.0
- 5) PCC M30

PROJECT FOR- RAMNAGAR, BIHAR, BUIDCO

PROJECT BY-

CSIR - NATIONAL ENVIRONMENTAL ENGINEERING
RESEARCH INSTITUTE

SCALE - 1:1

BEST PRINT VIEW IN A3 TO A1 SIZE PAPER

Dwg No.- D5

Revision No.- R0

DATE-01.08.2022

DWG.TITLE-

PLAN AND SECTION VIEW OF
APPROACH ROAD FOR STP
AFTER AQUEDUCT (RAMNAGAR)

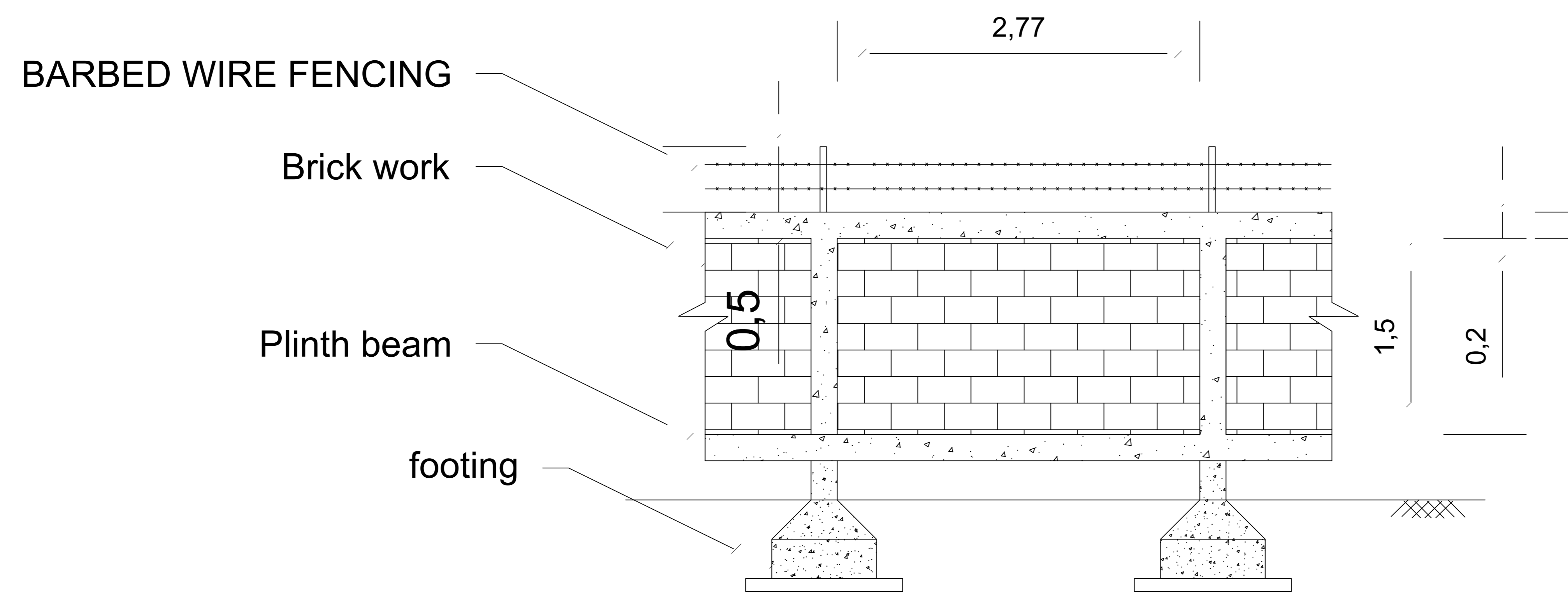
AFTER AQUEDUCT

PCC ROAD

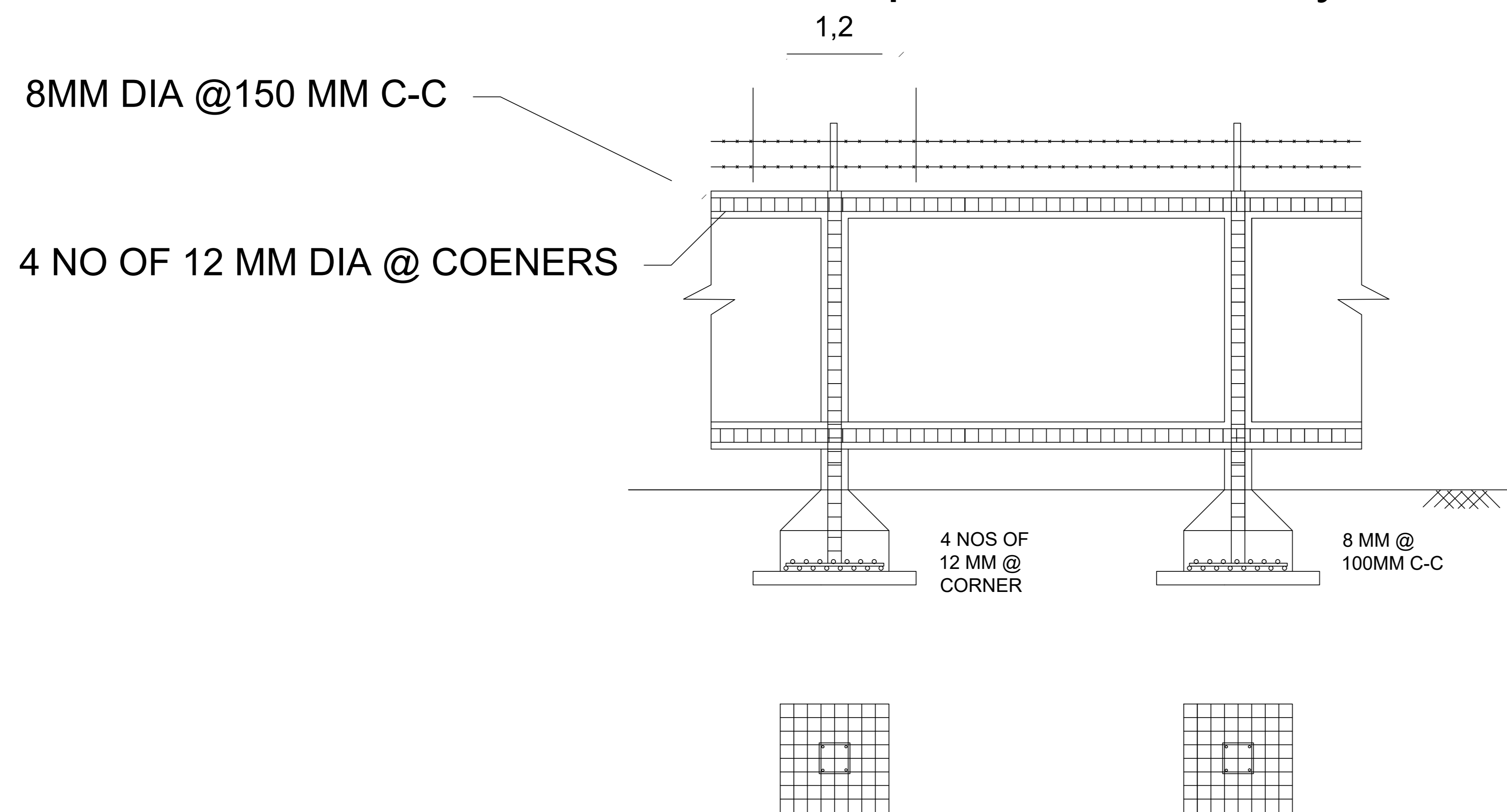
Prepared By - CSIR- NEERI

Reviewed By-

Approved By-



Elevation profile of boundry wall



Section profile with reinforcement of boundary wall

NOTES:-

- 1) ALL DIMENSIONS ARE IN METRE
- 2) DIMENSIONS ARE NOT TO BE SCALED FROM DRAWING.
- 3) THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION UNLESS APPROVED BY COMPETENT AUTHORITY
- 4) LEVELS CONSIDERING GROUND AS 0.0
- 5) ASSUMPTIONS FOR BILL OF QUANTITIES WEIGHT OF STEEL IS USED AS 100 KG
- 6) RCC M30 REINFORCED WITH Fe 500

PROJECT FOR- BUIDCO

PROJECT BY-

CSIR - NATIONAL ENVIRONMENTAL ENGINEERING RESEARCH INSTITUTE

SCALE - 1:1

BEST PRINT VIEW IN A3 TO A1 SIZE PAPER

Dwg No.- D 6

Revision No.- R0

DATE- 02/08/2022

DWG.TITLE-

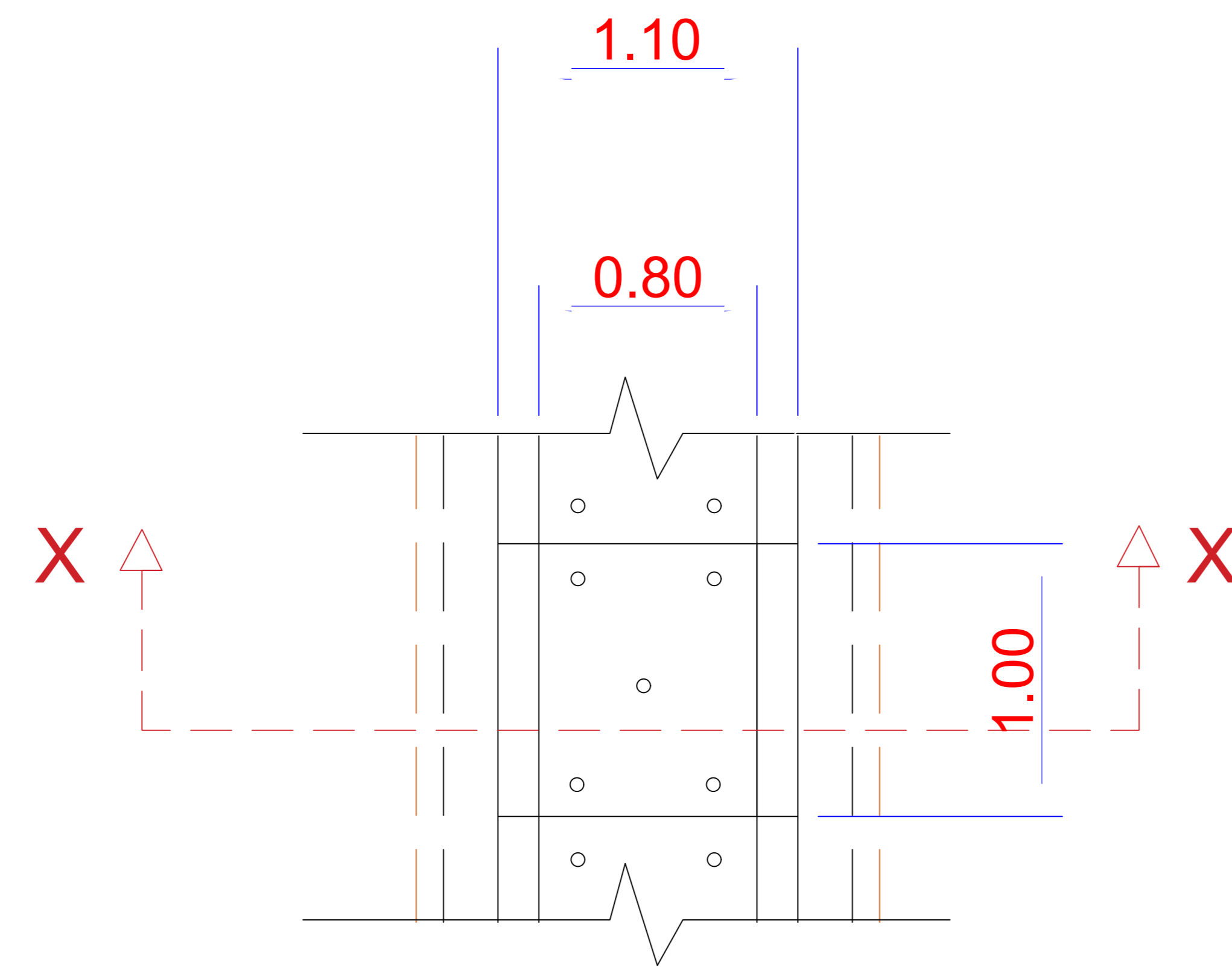
Boundary wall for stp site

RAMNAGAR

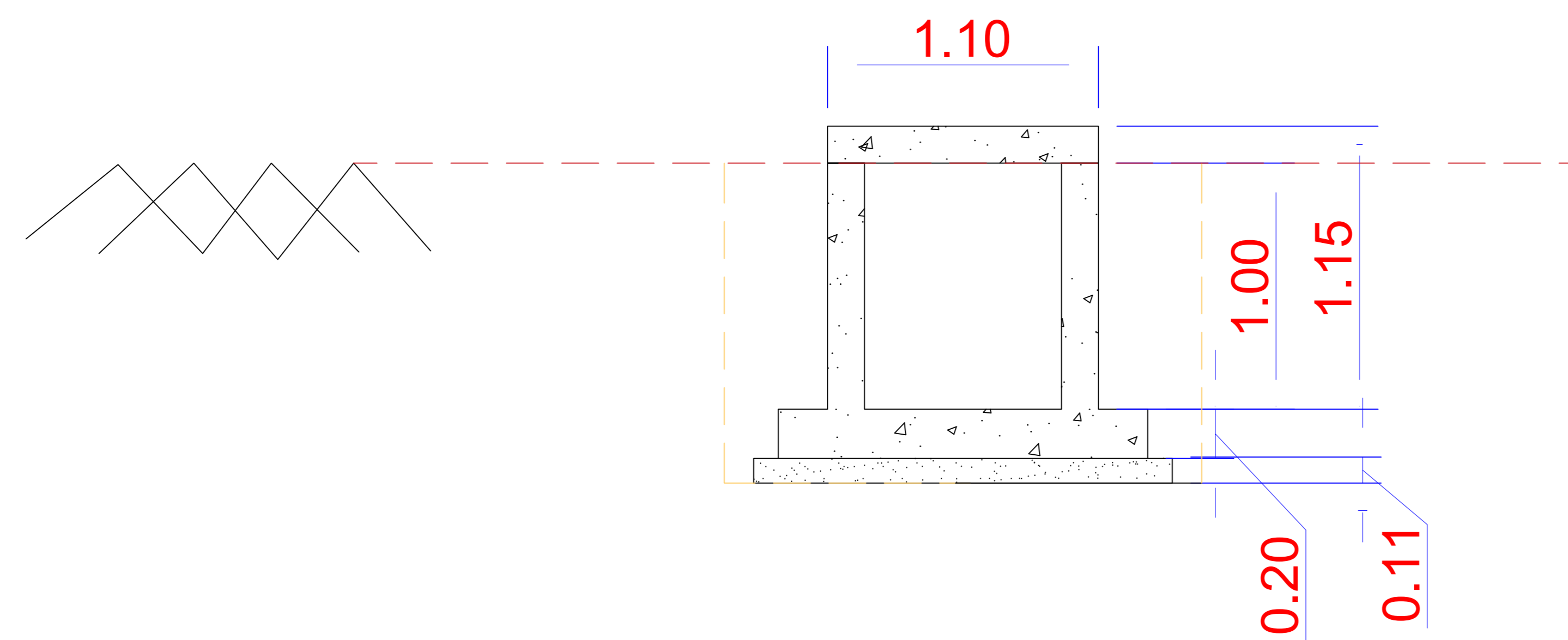
Prepared By - NEERI, Nagpur

Reviewed By-

Approved By-



TOP VIEW OF DRAIN



SECTION XX

NOTES:-

- 1) ALL DIMENSIONS ARE IN METRE
- 2) DIMENSIONS ARE NOT TO BE SCALED FROM DRAWING.
- 3) THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION UNLESS APPROVED BY COMPETENT AUTHORITY
- 4) LEVELS CONSIDERING GROUND AS 0.0
- 5) ASSUMPTIONS FOR BILL OF QUANTITIES WEIGHT OF STEEL IS USED AS 100 KG
- 6) RCC M30 REINFORCED WITH Fe 500

PROJECT FOR- BUIDCO

PROJECT BY-

CSIR - NATIONAL ENVIRONMENTAL ENGINEERING RESEARCH INSTITUTE

SCALE - 1:1

BEST PRINT VIEW IN A3 TO A1 SIZE PAPER

Dwg No.- D 7

Revision No.- R0

DATE- 02/08/22

DWG.TITLE-

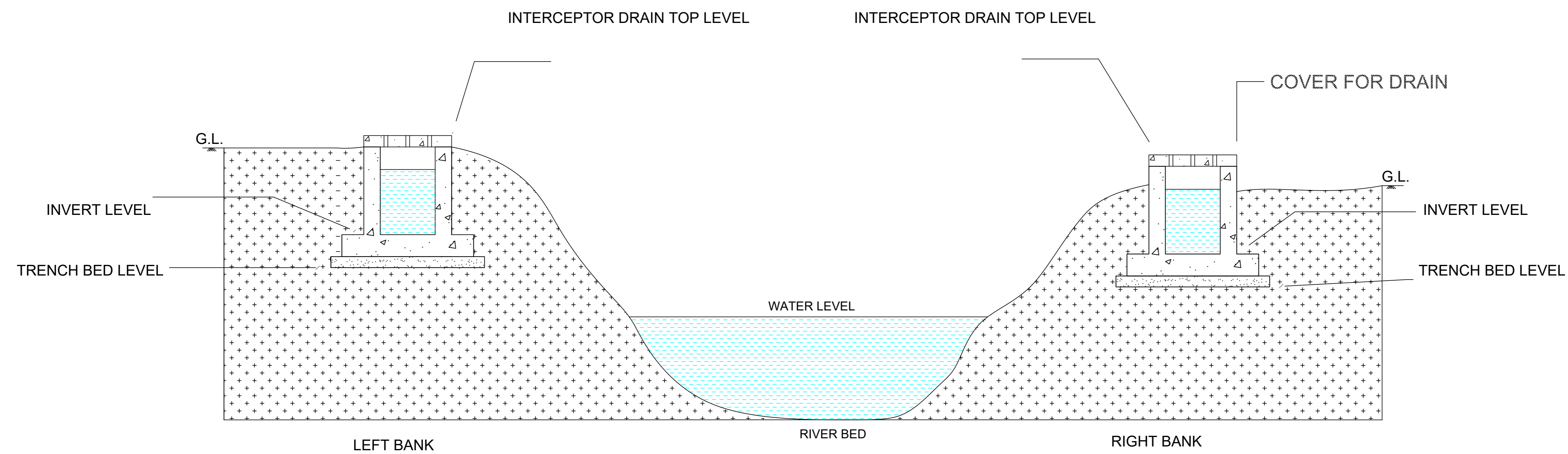
INTERCEPTOR DRAIN AND COVER

RAMNAGAR

Prepared By - NEERI NAGPUR

Reviewed By-

Approved By-



TYPICAL C/S OF INTERCEPTOR DRAIN

NOTES:-

- 1) ALL DIMENSIONS ARE IN METRE
- 2) DIMENSIONS ARE NOT TO BE SCALED FROM DRAWING.
- 3) THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION UNLESS APPROVED BY COMPETENT AUTHORITY
- 4) LEVELS CONSIDERING GROUND AS 0.0
- 5) ASSUMPTIONS FOR BILL OF QUANTITIES
WEIGHT OF STEEL IS USED AS 100 KG
- 6) RCC M30 REINFORCED WITH Fe 500

PROJECT FOR- BUIDCO

PROJECT BY-

CSIR - NATIONAL ENVIRONMENTAL ENGINEERING
RESEARCH INSTITUTE

SCALE - 1:1

BEST PRINT VIEW IN A3 TO A1 SIZE PAPER

Dwg No.- D8

Revision No.- R0

DATE- 02/08/2022

DWG.TITLE-

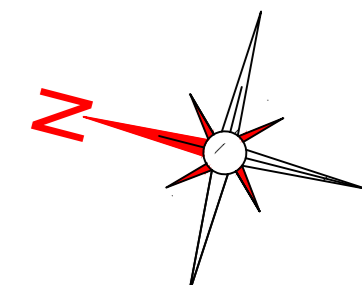
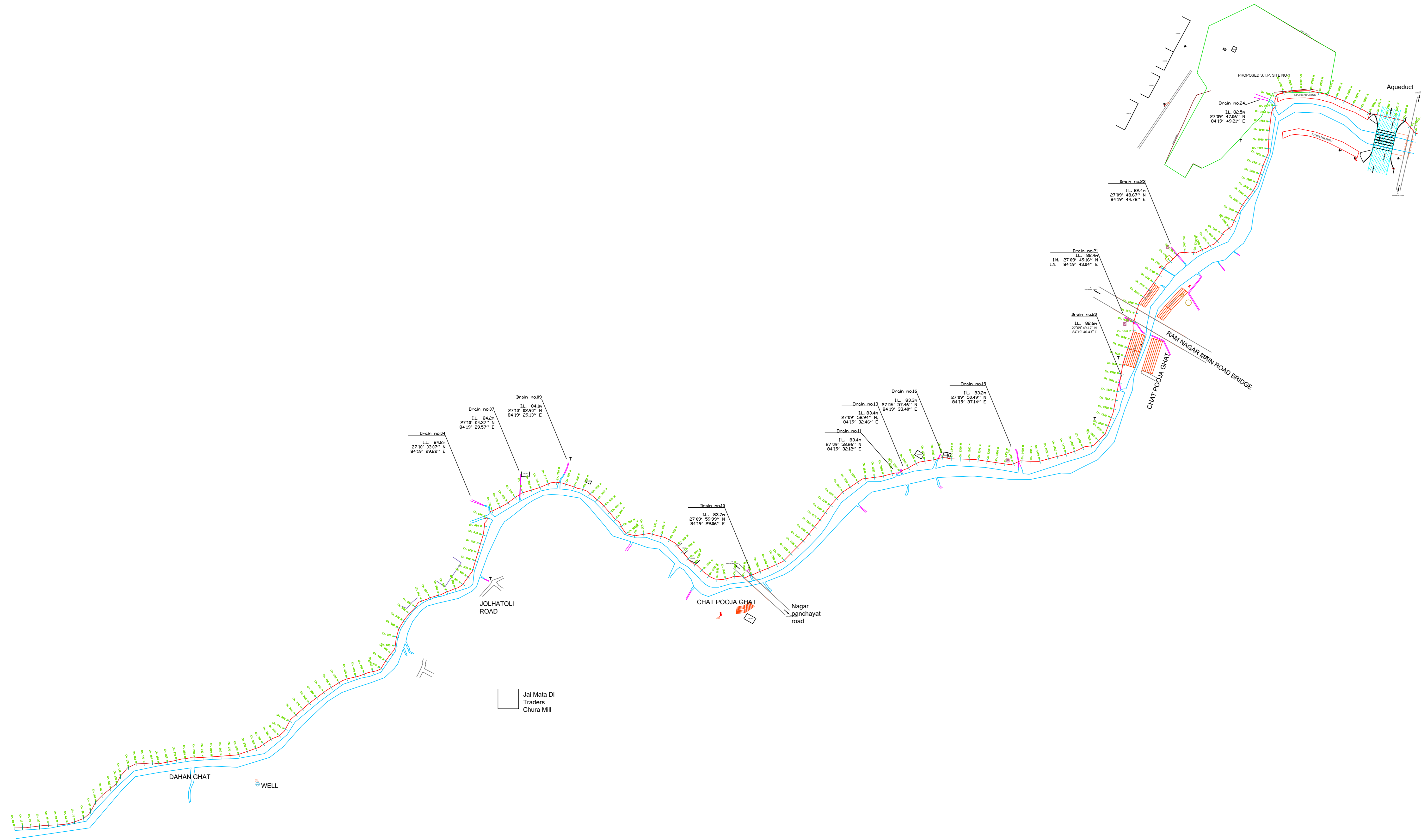
TYPICAL ARRANGEMENT OF
INTERCEPTION DRAIN
ON BANKS

RAMNAGAR

Prepared By - NEERI NAGPUR

Reviewed By-

Approved By-



SCALE
 HORIZONTAL: 1:500
 VERTICAL: 1:100

LEGENDS	
GROUND PROFILE	—
INTERCEPTION DRAIN TOP LEVEL	—
INTERCEPTION DRAIN BOTTOM LEVEL	—

Drain no.01 IL 84.00
 27.09 24.37° N
 84.19 29.22° E

Drain no.02 IL 84.00
 27.09 24.37° N
 84.19 29.22° E

Drain no.03 IL 83.00
 27.09 24.37° N
 84.19 29.22° E

Drain no.04 IL 83.00
 27.09 24.37° N
 84.19 29.22° E

Drain no.05 IL 83.00
 27.09 24.37° N
 84.19 29.22° E

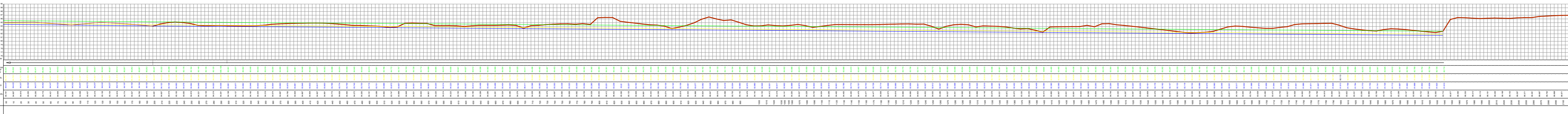
Drain no.06 IL 83.00
 27.09 24.37° N
 84.19 29.22° E

Drain no.07 IL 83.00
 27.09 24.37° N
 84.19 29.22° E

Drain no.08 IL 83.00
 27.09 24.37° N
 84.19 29.22° E

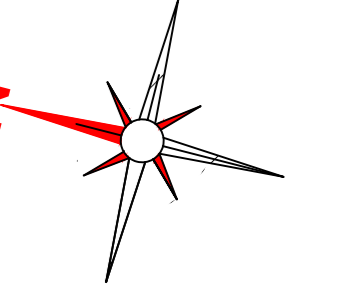
Drain no.09 IL 83.00
 27.09 24.37° N
 84.19 29.22° E

Drain no.10 IL 83.00
 27.09 24.37° N
 84.19 29.22° E



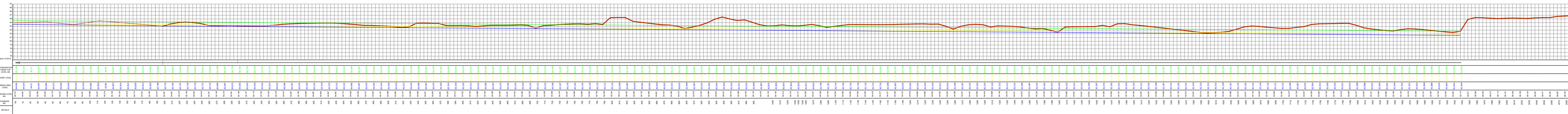
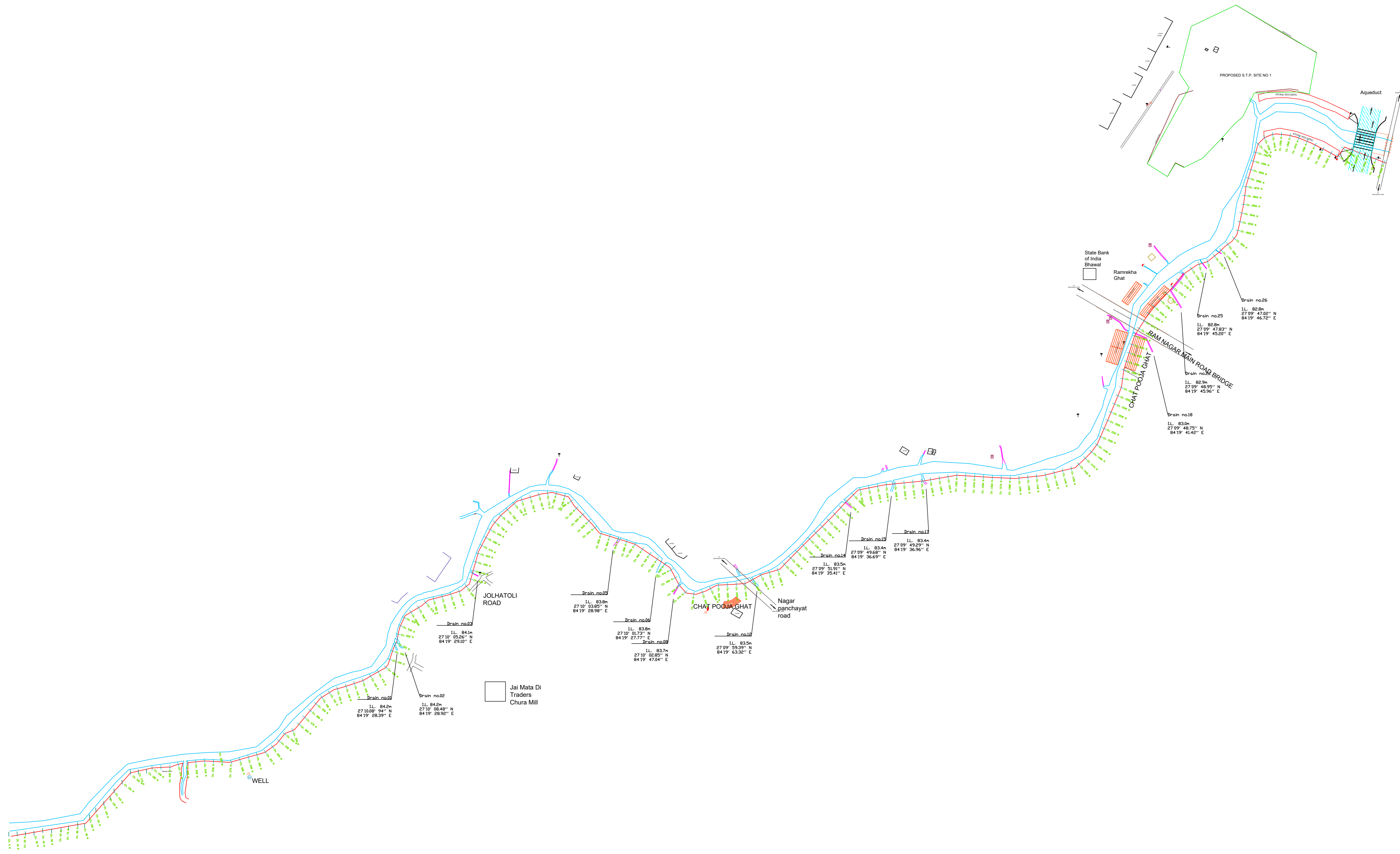
DRG NO. 9

CLIENT	M/S. NATIONAL INFRASTRUCTURE INVESTMENT SERVICES PRIVATE LIMITED NAGPUR.	
SCHEME	TOPOGRAPHICAL SURVEY OF 4 TOWNS IN BHAR STATE	
TITLE	L - SECTION OF RAMREKHA RIVER (LEFT BANK OF RIVER) BEFORE AQUEDUCT AT RAMNAGAR (HARINAGAR)	
CONSULTANT	M/S SURCON ENGINEERS OFFICE NO. 102, PANDHAR ROAD, NAGPUR-490002 MANAGER: DR. ANAND KUMAR KUMAR PH: 9822029292 WWW.SURCONENGINEERS.COM	
YEAR	FEB - 2021	
SCALE	HORIZONTAL: 1:500 VERTICAL: 1:100	
SECTION ENGINEER (P.P.S.) DR. ANAND KUMAR	ASSISTANT SCIENTIST DR. ANAND KUMAR	DIRECTOR DR. ANAND KUMAR



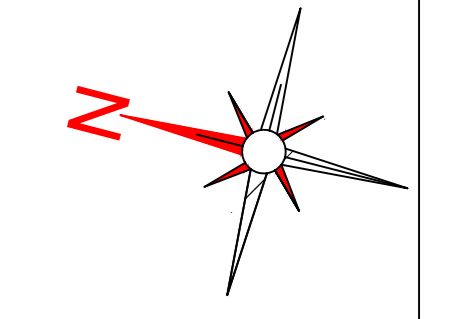
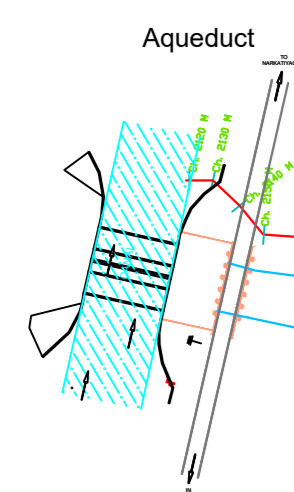
SCALE
HORIZONTAL - 1:500
VERTICAL - 1:100

LEGENDS	
GROUND PROFILE	—
INTERCEPTION DRAIN TOP LEVEL	—
INTERCEPTION DRAIN BOTTOM LEVEL	—



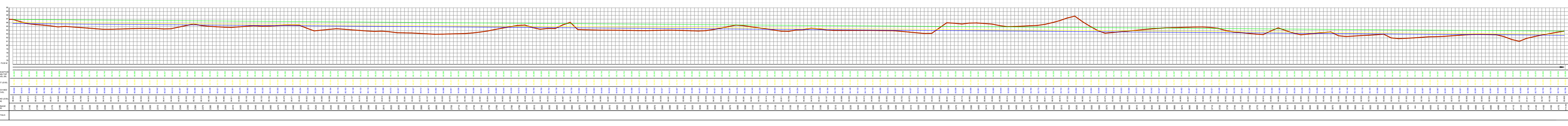
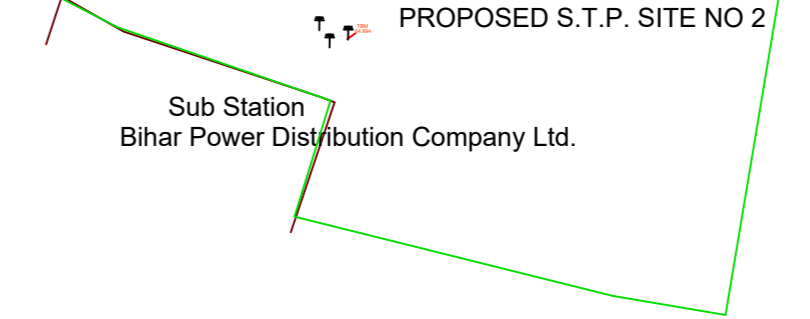
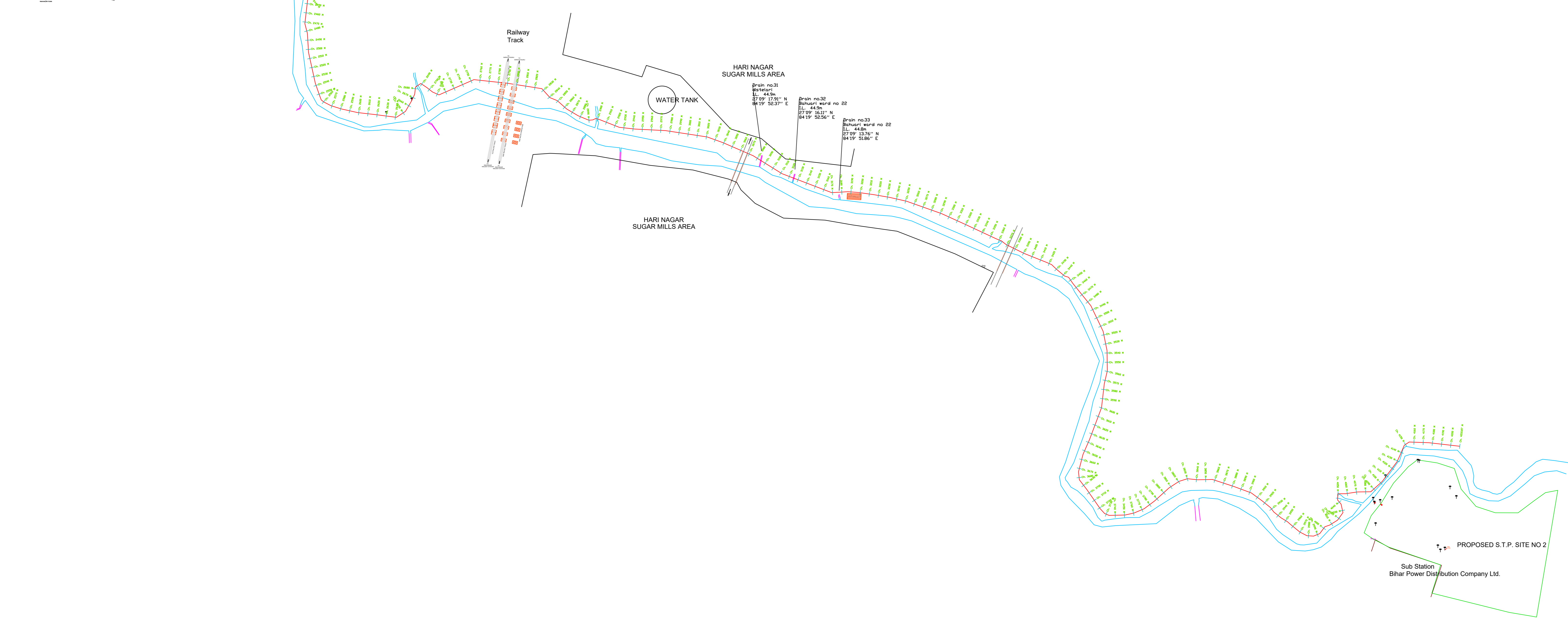
DRG NO. 10

CLIENT	DR. NATIONAL INSTITUTE OF RESEARCH ENGINEERS NAGPUR.				
SCHEME	TOPOGRAPHICAL SURVEY OF 4 TOWNS IN BHAR STATE				
TITLE	L - SECTION OF RAMREKHA RIVER (RIGHT BANK OF RIVER) BEFORE AQUEDUCT AT RAMNAGAR (HARINAGAR)				
CONSULTANT	M/s SURCON ENGINEERS OFFICE NO. 10, KUMAR ROAD, NAGPUR 440002 INDIA				
YEAR	2021	DRG NO.	10		
SECTION ENGINEER	PPD.J.	ASSISTANT SCIENTIST	SSP. VIKAS WADKAR	DIRECTOR	DR. VEDH. KADAM



SCALE
HORIZONTAL :- 1:500
VERTICAL :- 1:100

LEGENDS	
GROUND PROFILE	—
INTERCEPTION DRAIN TOP LEVEL	—
INTERCEPTION DRAIN BOTTOM LEVEL	—



DRG NO. 11	
CLIENT	INDIA ENVIRONMENTAL ENGINEERING SERVICES PVT.LTD. NAGPUR.
SCHEME	TOPOGRAPHICAL SURVEY OF 4 TOWNS IN BIHAR STATE
TITLE	L - SECTION OF RAMREKHA RIVER (LEFT BANK OF RIVER) AFTER AQUEDUCT AT RAMNAGAR (HARI NAGAR)
CONSULTANT	M/s SURCON ENGINEERS OFF. OF BANK OF INDIA, JHANSI BANKING BRANCH, RAMREKHA, NAGPUR-461002 INDIA WWW.SURCONENGINEERS.COM
YEAR	FEB. 2021
SCALE	HORIZONTAL :- 1:500 VERTICAL :- 1:100
PROJECT ENGINEER	ASSISTANT SCIENTIST
DIRECTOR	DIRECTOR

RAM NAGAR TOWN

Railway Track

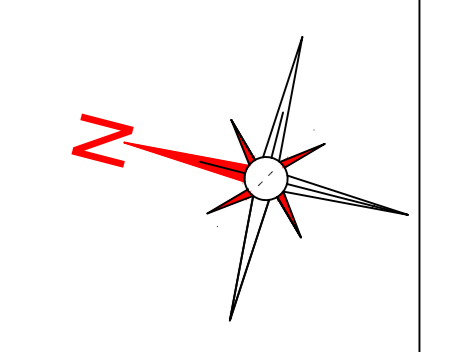
HARI NAGAR SUGAR MILLS AREA

Sugar mill crossing

Naya
tola
bahuvari

HARI NAGAR SUGAR MILLS AREA

PROPOSED S.T.P. SITE NO 2
Sub Station
Bihar Power Distribution Company Ltd.



SCALE
HORIZONTAL : 1:500
VERTICAL : 1:100

LEGENDS	
GROUND PROFILE	—
INTERCEPTION DRAIN TOP LEVEL	—
INTERCEPTION DRAIN BOTTOM LEVEL	—

— Drain no.27
I.L. 83.6m
27°09' 33.81" N
84°19' 53.50" E

— Drain no.28
I.L. 83.0m
27°09' 52.65" N
84°19' 49.81" E

— Drain no.29
I.L. 81.5m
27°09' 31.14" N
84°19' 49.33" E

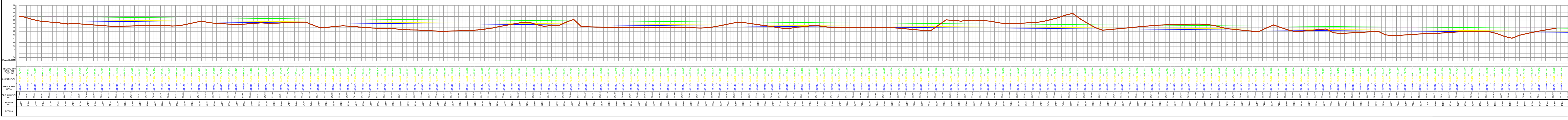
— Drain no.30
I.L. 81.0m
27°09' 16.25" N
84°19' 51.62" E

— Drain no.31
I.L. 83.0m
27°09' 08.77" N
84°19' 51.68" E

— Drain no.32
I.L. 85.4m
27°09' 52.37" N
84°19' 49.45" E

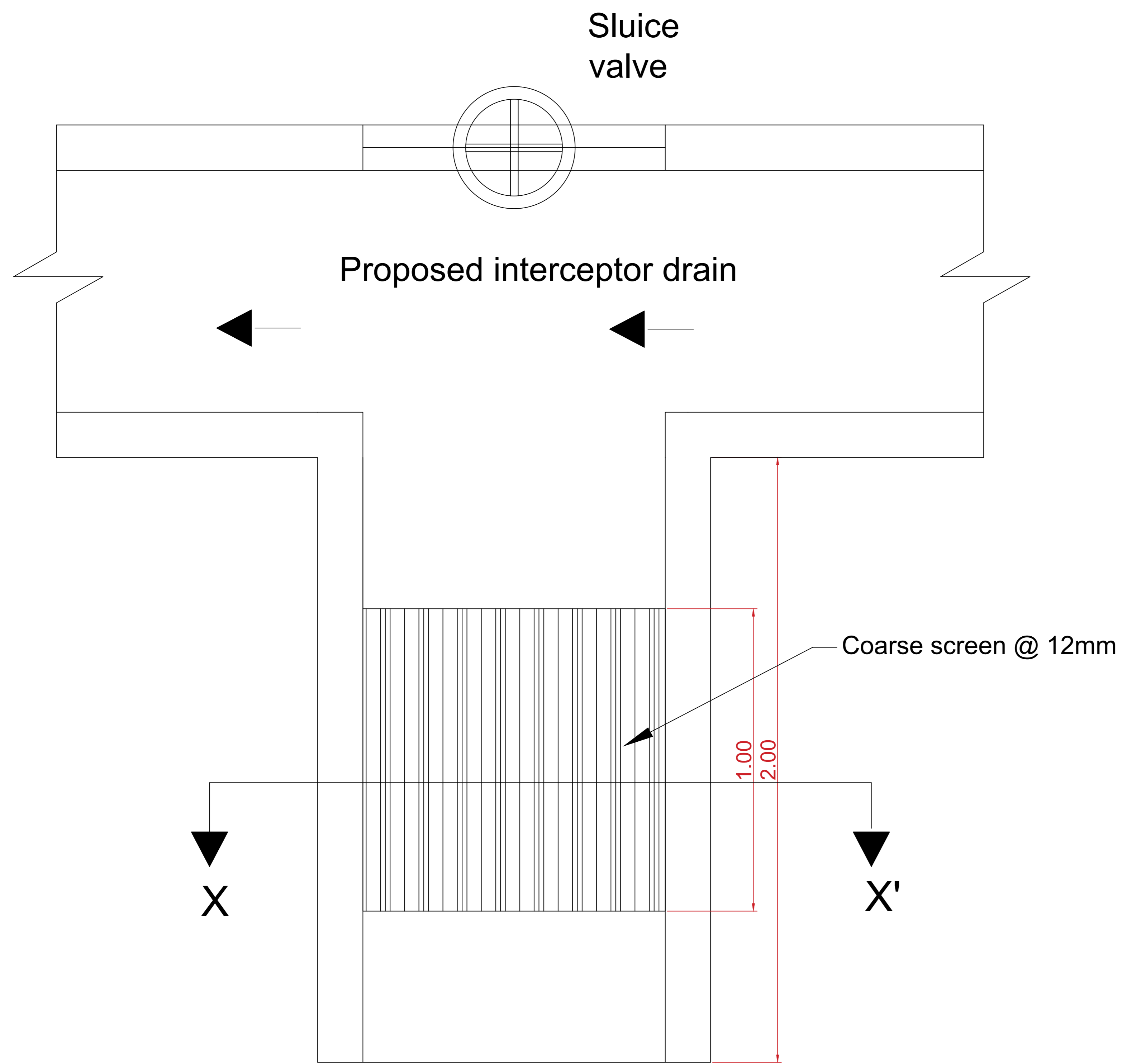
— Drain no.33
I.L. 86.0m
27°09' 58.50" N
84°19' 43.37" E

— Drain no.34
I.L. 86.0m
27°09' 57.14" N
84°19' 44.84" E

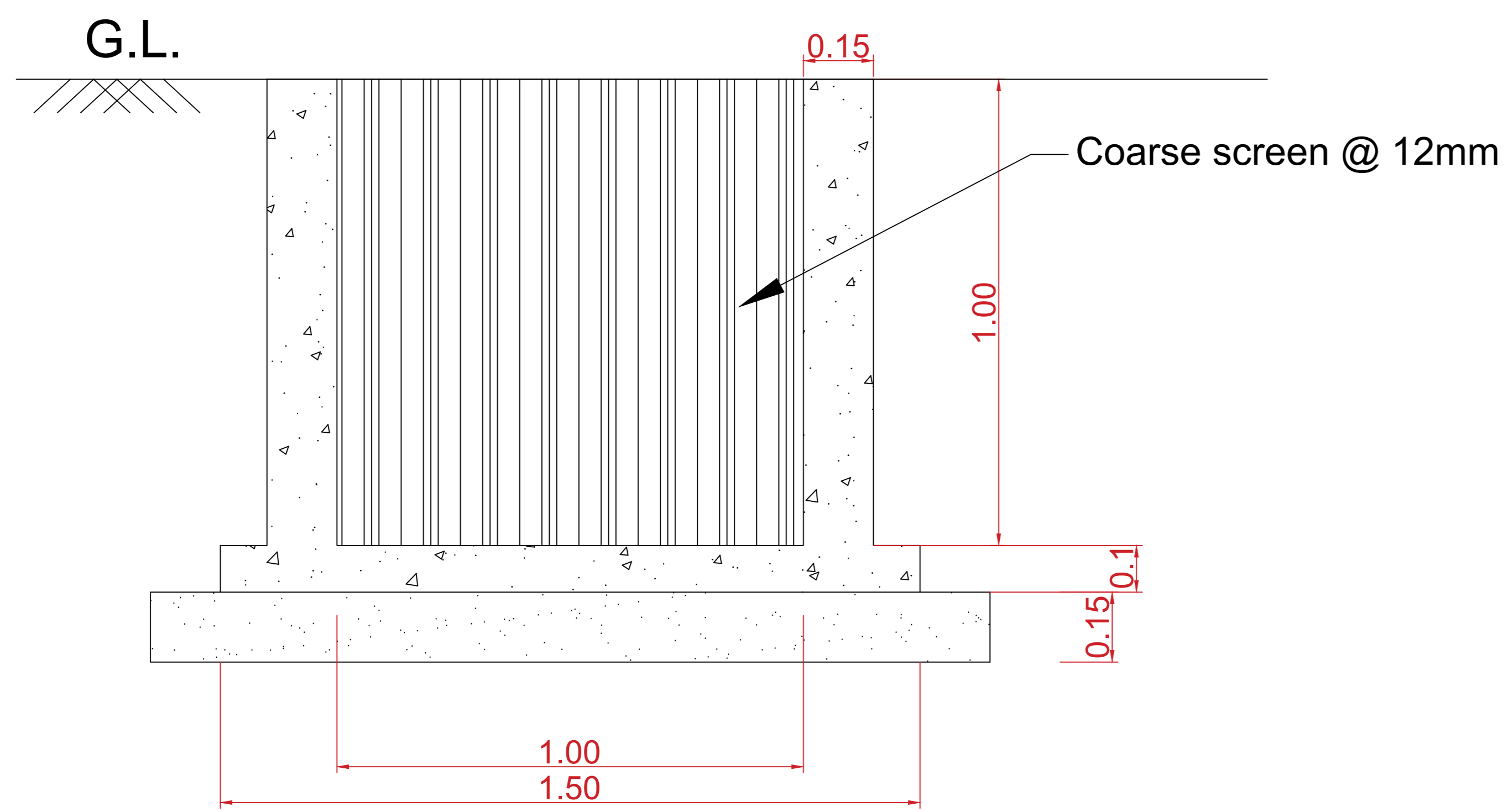


DRG NO. 12

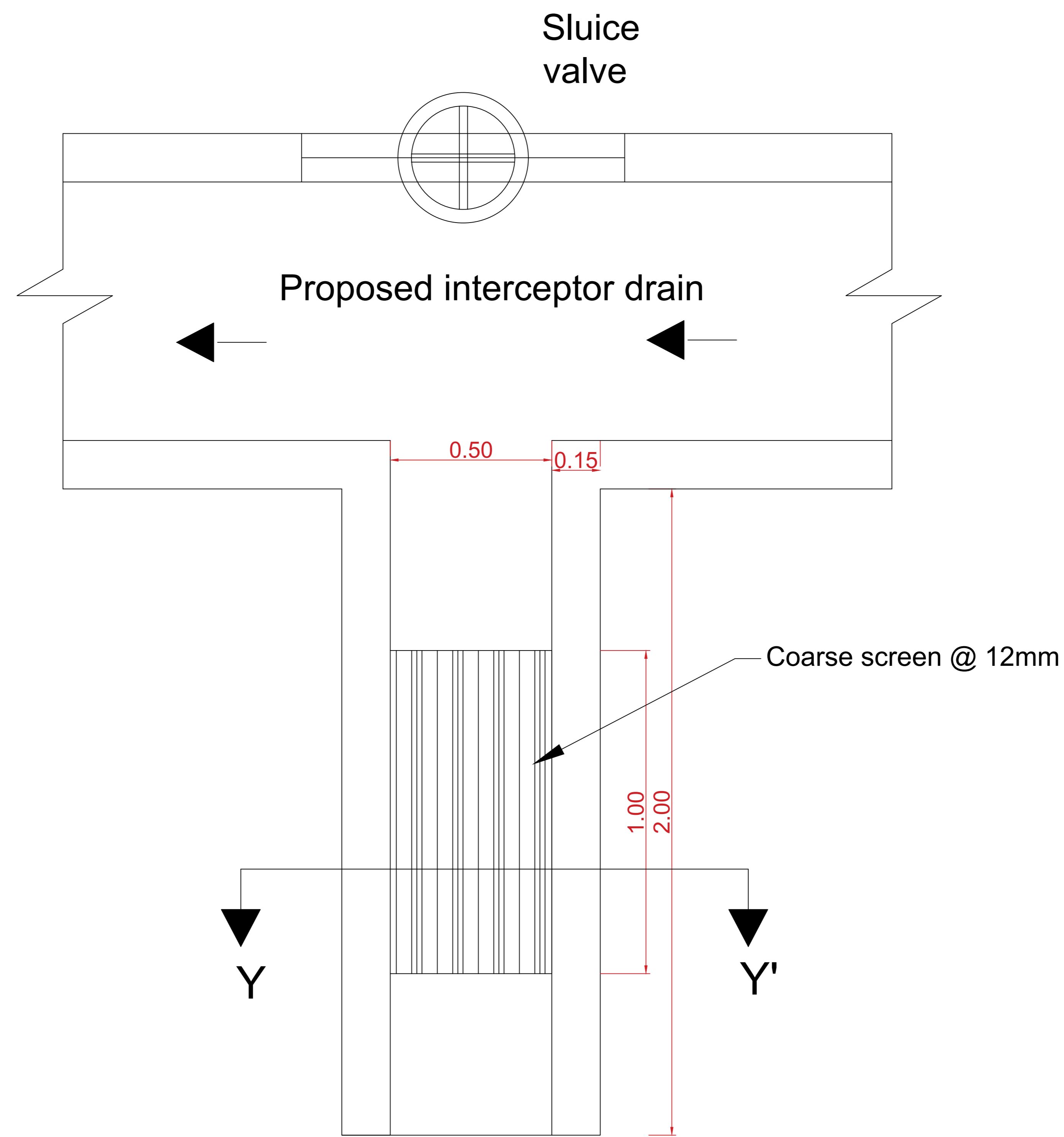
CLIENT	M/S. NATIONAL ENVIRONMENTAL ENGINEERING RESEARCH INSTITUTE NAGPUR.	
SCHEME	TOPOGRAPHICAL SURVEY OF 4 TOWNS IN BIHAR STATE	
TITLE	L - SECTION OF RAMREKHA RIVER (RIGHT BANK OF RIVER) AFTER AQUEDUCT AT RAMNAGAR (HARI NAGAR)	
CONSULTANT	M/S SURCON ENGINEERS OFFICE: 80/1, MAIN ROAD, JAGDISHNAGAR, DIST. NAGPUR, M.P. 20, BHOJIPUR, DIST. NAGPUR, M.P.	
YEAR	2021	
SCALE	HORIZONTAL : 1:500 VERTICAL : 1:100	
DRG NO.	12	
PROJECT ENGINEER	ASSISTANT PROJECT ENGINEER	DIRECTOR
(Signature)	(Signature)	(Signature)



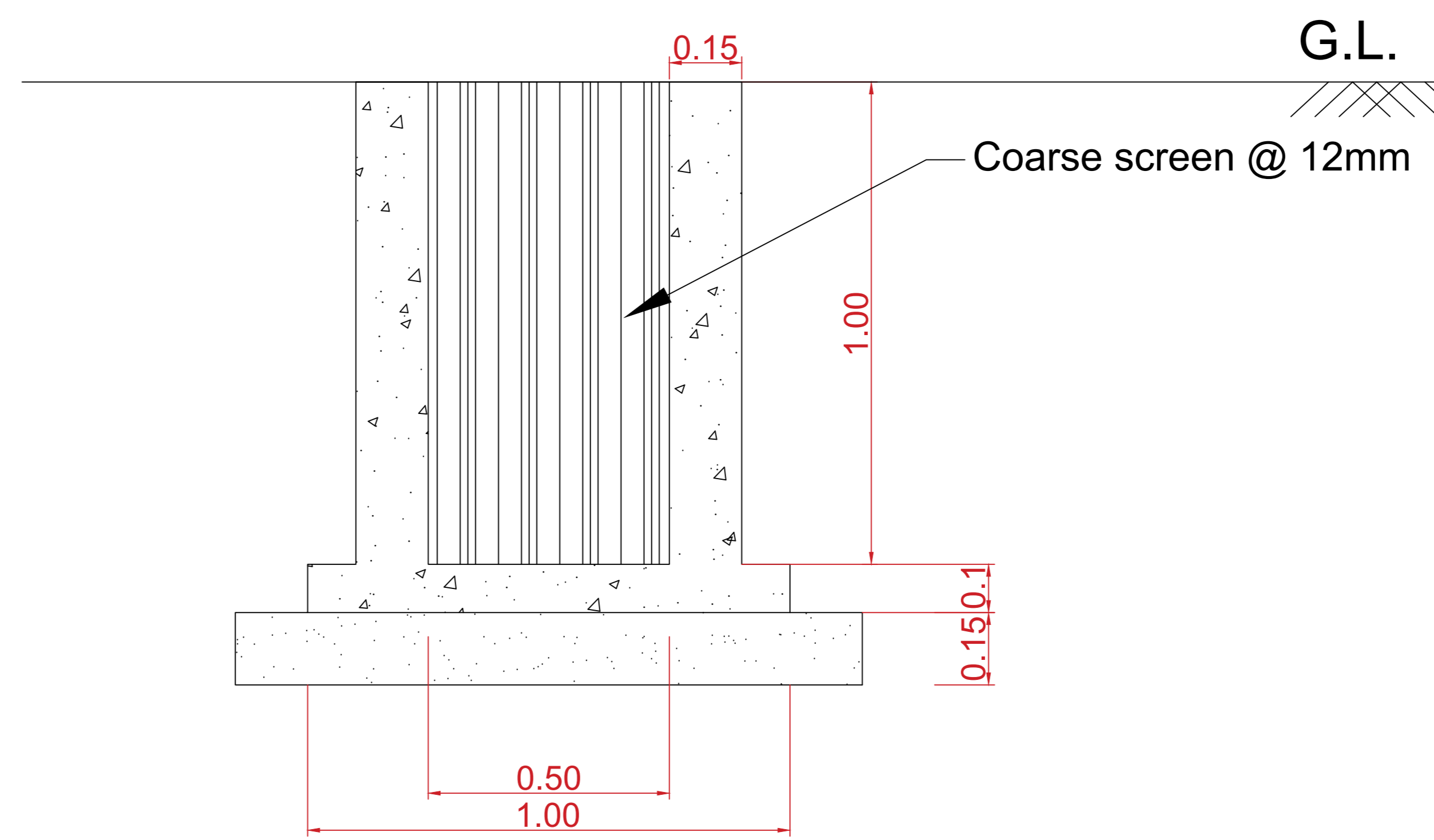
Plan view of Coarse screen in drain D1



Section XX'



Plan view of Coarse screen in drain D2



Section YY'

- NOTES:-
- 1) ALL DIMENSIONS ARE IN METRE
 - 2) DIMENSIONS ARE NOT TO BE SCALED FROM DRAWING.
 - 3) THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION UNLESS APPROVED BY COMPETENT AUTHORITY
 - 4) LEVELS CONSIDERING GROUND AS 0.0
 - 5) ASSUMPTIONS FOR BILL OF QUANTITIES
 RAFT OFFSET: 0.15 M, RAFT DEPTH : 0.23 M
 PCC OFFSET : 0.15 M PCC DEPTH : 0.15 M
 SOLING OFFSET : 0.15 M SOLING DEPTH : 0.50 M
 ALL PIPE DIA .110 M, SUMP WELL PIPE : 0.075 M
 DIMENSIONS MENTIONED BELOW UNITS ARE CAPACITIES ONLY
 - 6) RCC M30 REINFORCED WITH Fe 500
 - 6) ALL DIMENSIONS IS IN METER

PROJECT FOR- BUIDCO

PROJECT BY-
 CSIR - NATIONAL ENVIRONMENTAL ENGINEERING RESEARCH INSTITUTE

SCALE - 1:1

BEST PRINT VIEW IN A3 TO A2 SIZE PAPER

Dwg No.- 13

Revision No.- R0 DATE-02/08/2022

DWG.TITLE-
 PLAN AND SECTION OF SCEEN AT EXISTING DRAINS D1 AND D2 WITH SLUICE VALVE

Ramnagar

Prepared By - WWT DIVISION CSIR-NEERI, NAGPUR

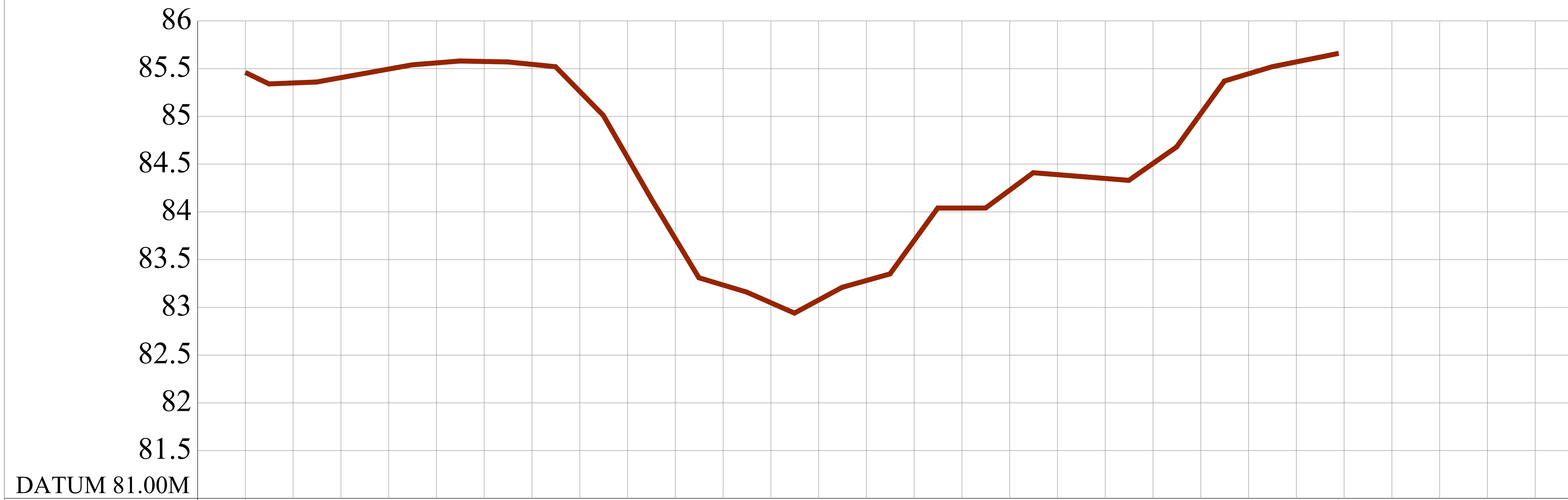
Reviewed By-

Approved By-

RAMREKHA RIVER CROSS SECTION AT CHAINAGE 70.00 Mtr.

SCALE
HORIZONTAL:- 1 : 200
VERTICAL :- 1 : 50

LEGENDS	
GROUND PROFILE	



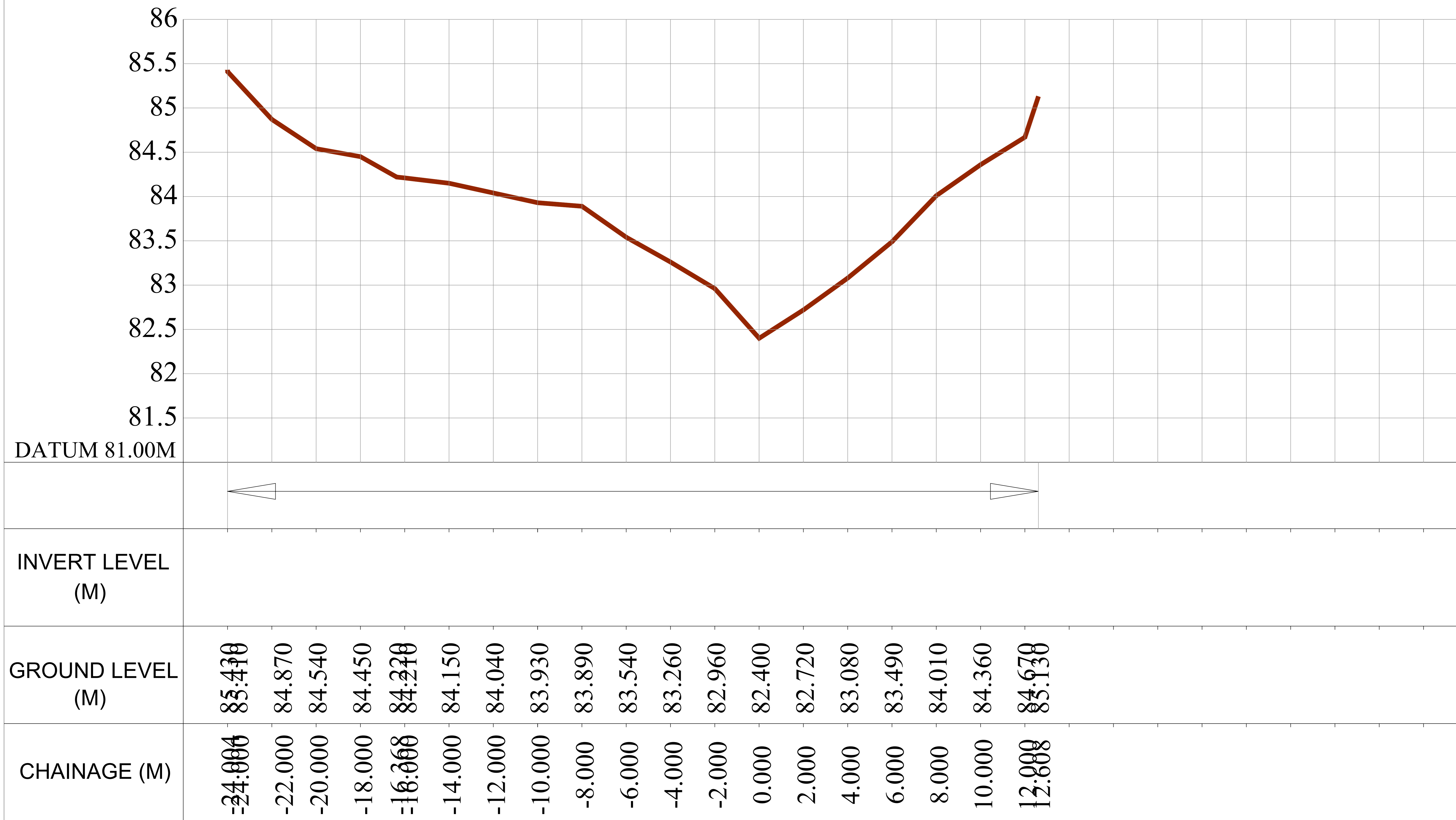
INVERT LEVEL (M)		
GROUND LEVEL (M)	85.460 85.340 85.360 85.450 85.540 85.580 85.570 85.520 85.010 84.140 83.310 83.160 82.940 83.210 83.350 84.040 84.040 84.410 84.370 84.330 84.680 85.370 85.520 85.620 85.660	
CHAINAGE (M)	-24.986 -24.000 -22.000 -20.000 -18.000 -16.000 -14.000 -12.000 -10.000 -8.000 -6.000 -4.000 -2.000 0.000 2.000 4.000 6.000 8.000 10.000 12.000 14.000 16.000 18.000 20.000 20.782	
DETAILS	Chainage 70.00 M	

CLIENT	CSIR - NATIONAL ENVIRONMENTAL ENGINEERING RESEARCH INSTITUTE NAGPUR.	
SCHEME	TOPOGRAPHICAL SURVEY OF 4 TOWNS IN BIHAR STATE	
TITLE	CROSS SECTION OF RAMREKHA RIVER (Chainage 70 M) AT RAMNAGAR (HARINAGAR)	
CONSULTANT	M/s SURCON ENGINEERS OPP. OF BANK OF INDIA, JAGADAMBA HEIGHT, UG-2, MANKAPUR SQ., KORADI ROAD, NAGPUR. 440030 PH. 9823070304 E-mail :- surconengineers@gmail.com	
YEAR FEB. - 2021	SCALE HORIZONTAL:- 1:200 VERTICLE :- 1:50	DRG NO. 14
SECTION ENGINEER (PMPD) CSIR - NEERI, NAGPUR.	ASSISTANT SCIENTIST CSIR - NEERI, NAGPUR.	DIRECTOR CSIR - NEERI, NAGPUR.

RAMREKHA RIVER CROSS SECTION AT CHAINAGE 690.00 Mtr.

SCALE
HORIZONTAL:- 1 : 200
VERTICAL :- 1 : 50

LEGENDS	
GROUND PROFILE	



DATUM 81.00M		
CLIENT	CSIR - NATIONAL ENVIRONMENTAL ENGINEERING RESEARCH INSTITUTE NAGPUR.	
SCHEME	TOPOGRAPHICAL SURVEY OF 4 TOWNS IN BIHAR STATE	
TITLE	CROSS SECTION OF RAMREKHA RIVER (Chainage 690 M) AT RAMNAGAR (HARINAGAR)	
CONSULTANT	<b style="color: red;">M/s SURCON ENGINEERS <small>OPP. OF BANK OF INDIA, JAGADAMBA HEIGHT, UG-2, MANKAPUR SQ., KORADI ROAD, NAGPUR. 440030 PH. 9823070304 E-mail :- surconengineers@gmail.com</small>	
YEAR	SCALE	DRG NO. 15
FEB. - 2021	HORIZONTAL:- 1:200 VERTICLE :- 1:50	
SECTION ENGINEER (PMPD) CSIR - NEERI, NAGPUR.	ASSISTANT SCIENTIST CSIR - NEERI, NAGPUR.	DIRECTOR CSIR - NEERI, NAGPUR.

Chainage 690.00 M

RAMREKHA RIVER CROSS SECTION AT CHAINAGE 1300.00 Mtr.

SCALE
HORIZONTAL:- 1 : 200
VERTICAL :- 1 : 50

LEGENDS	
GROUND PROFILE	

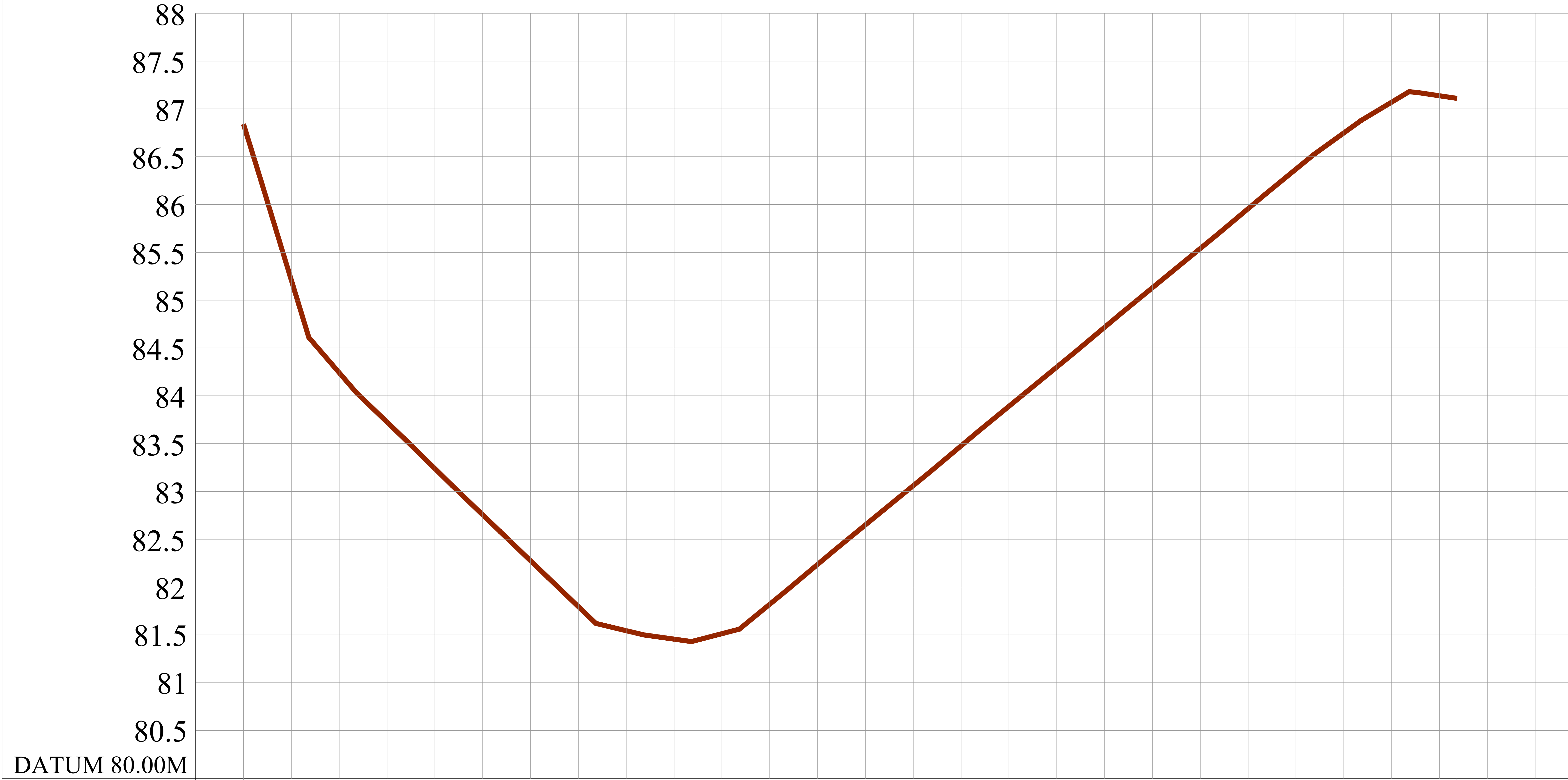


DATUM 80.00M	
CLIENT	CSIR - NATIONAL ENVIRONMENTAL ENGINEERING RESEARCH INSTITUTE NAGPUR.
SCHEME	TOPOGRAPHICAL SURVEY OF 4 TOWNS IN BIHAR STATE
TITLE	CROSS SECTION OF RAMREKHA RIVER (Chainage 1300 M) AT RAMNAGAR (HARINAGAR)
CONSULTANT	<b style="color: red;">M/s SURCON ENGINEERS OPP. OF BANK OF INDIA, JAGADAMBA HEIGHT, UG-2, MANKAPUR SQ., KORADI ROAD, NAGPUR. 440030 PH. 9823070304 E-mail :- surconengineers@gmail.com
YEAR	FEB. - 2021
SCALE	HORIZONTAL:- 1:200 VERTICLE :- 1:50
DRG NO.	DRG NO. 16
SECTION ENGINEER (PMPD) CSIR - NEERI, NAGPUR.	ASSISTANT SCIENTIST CSIR - NEERI, NAGPUR.
DIRECTOR	CSIR - NEERI, NAGPUR.
DETAILS	Chainage 1300.00 M

RAMREKHA RIVER CROSS SECTION AT CHAINAGE 1870.00 Mtr.

SCALE
HORIZONTAL:- 1 : 200
VERTICAL :- 1 : 50

LEGENDS	
GROUND PROFILE	

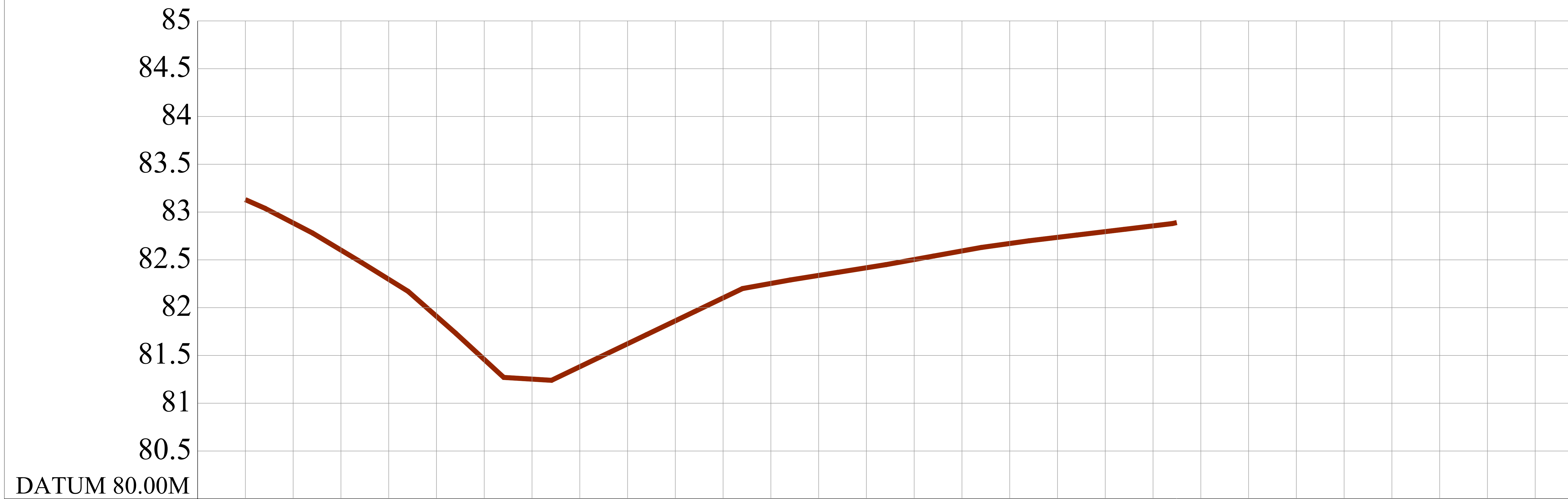


CLIENT	CSIR - NATIONAL ENVIRONMENTAL ENGINEERING RESEARCH INSTITUTE NAGPUR.	
SCHEME	TOPOGRAPHICAL SURVEY OF 4 TOWNS IN BIHAR STATE	
TITLE	CROSS SECTION OF RAMREKHA RIVER (Chainage 1870 M) AT RAMNAGAR (HARINAGAR)	
CONSULTANT	<b style="color: red;">M/s SURCON ENGINEERS <small>OPP. OF BANK OF INDIA, JAGADAMBA HEIGHT, UG-2, MANKAPUR SQ., KORADI ROAD, NAGPUR. 440030 PH. 9823070304 E-mail :- surconengineers@gmail.com</small>	
YEAR	SCALE	DRG NO. 17
FEB. - 2021	HORIZONTAL:- 1:200 VERTICLE :- 1:50	
DETAILS	Chainage 1870.00 M	
SECTION ENGINEER (PMPD) <small>CSIR - NEERI, NAGPUR.</small>	ASSISTANT SCIENTIST <small>CSIR - NEERI, NAGPUR.</small>	<small>DIRECTOR CSIR - NEERI, NAGPUR.</small>

RAMREKHA RIVER CROSS SECTION AT CHAINAGE 2450.00 Mtr.

SCALE
HORIZONTAL:- 1 : 200
VERTICAL :- 1 : 50

LEGENDS	
GROUND PROFILE	

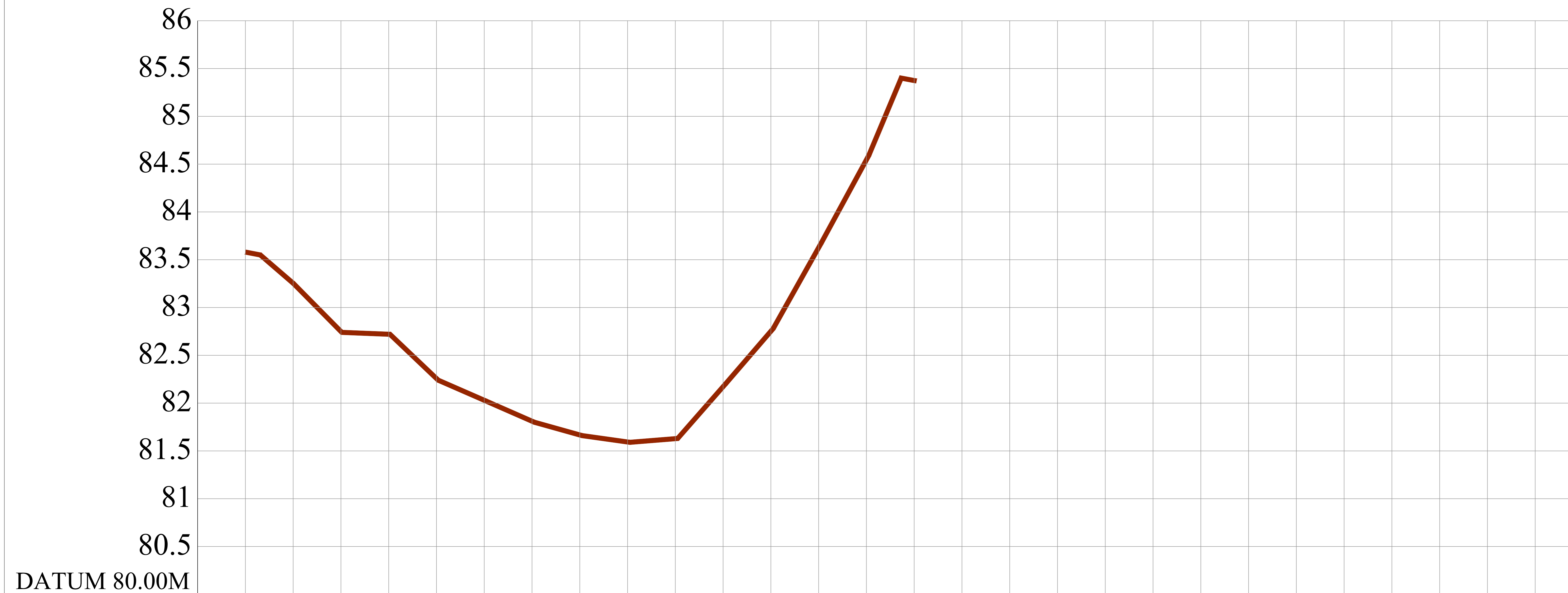


		CLIENT	CSIR - NATIONAL ENVIRONMENTAL ENGINEERING RESEARCH INSTITUTE NAGPUR.	
INVERT LEVEL (M)		SCHEME	TOPOGRAPHICAL SURVEY OF 4 TOWNS IN BIHAR STATE	
GROUND LEVEL (M)	83.130 83.040 82.780 82.480 82.170 81.730 81.270 81.240 81.480 81.720 81.960 82.200 82.290 82.370 82.450 82.540 82.630 82.700 82.760 82.820 82.880 82.890	TITLE	CROSS SECTION OF RAMREKHA RIVER (Chainage 2450 M) AT RAMNAGAR (HARINAGAR)	
CHAINAGE (M)	-14.816 -14.000 -12.000 -10.000 -8.000 -6.000 -4.000 -2.000 0.000 2.000 4.000 6.000 8.000 10.000 12.000 14.000 16.000 18.000 20.000 22.000 24.000 24.174	CONSULTANT		M/s SURCON ENGINEERS OPP. OF BANK OF INDIA, JAGADAMBA HEIGHT, UG-2, MANKAPUR SQ., KORADI ROAD, NAGPUR. 440030 PH. 9823070304 E-mail :- surconengineers@gmail.com
DETAILS	Chainage 2450.00 M	YEAR FEB. - 2021	SCALE HORIZONTAL:- 1:200 VERTICLE :- 1:50	DRG NO. 18
		SECTION ENGINEER (PMPD) CSIR - NEERI, NAGPUR.	ASSISTANT SCIENTIST CSIR - NEERI, NAGPUR.	DIRECTOR CSIR - NEERI, NAGPUR.

RAMREKHA RIVER CROSS SECTION AT CHAINAGE 2870.00 Mtr.

SCALE
HORIZONTAL:- 1 : 200
VERTICAL :- 1 : 50

LEGENDS	
GROUND PROFILE	



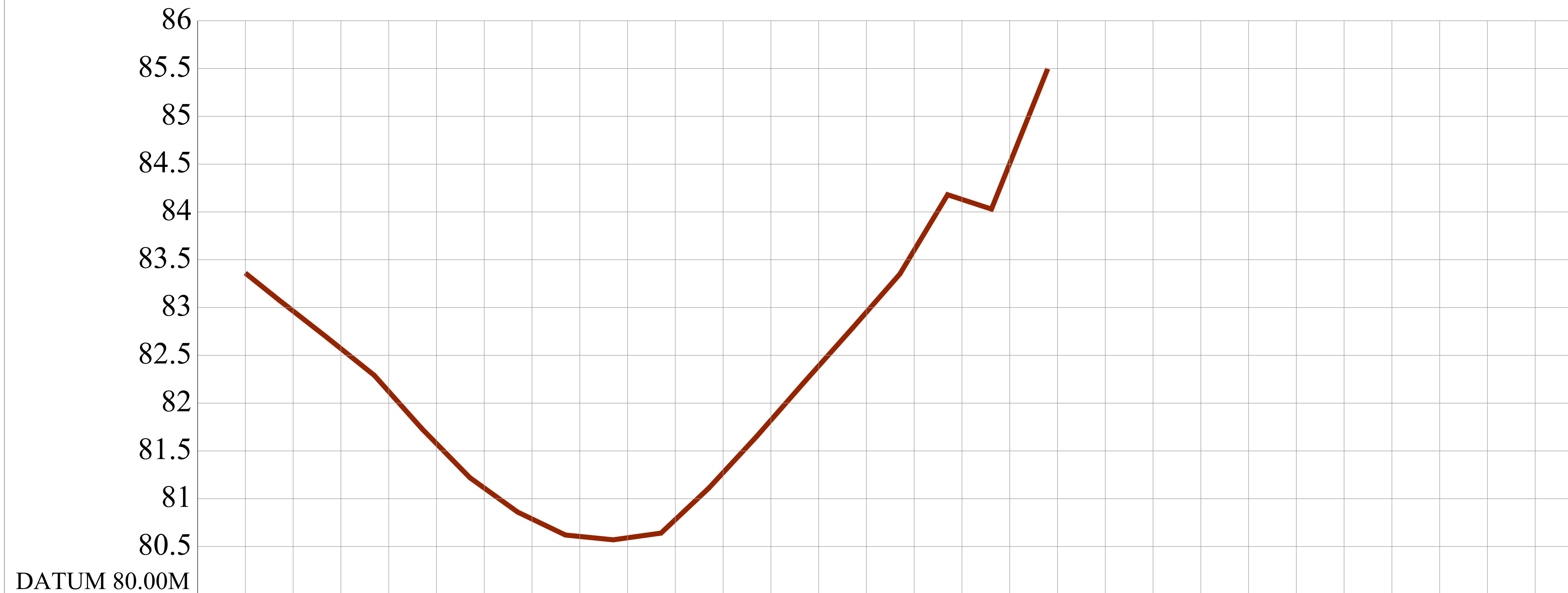
INVERT LEVEL (M)		
GROUND LEVEL (M)	83.580 83.580 83.250 82.740 82.720 82.240 82.020 81.800 81.660 81.590 81.630 82.200 82.780 83.670 84.590 85.490 85.390	
CHAINAGE (M)	-16.098 -14.080 -12.062 -10.044 -8.026 -6.008 -4.000 -2.000 0.000 2.000 4.000 6.000 8.000 10.000 12.000	
DETAILS	Chainage 2870.00 M	

CLIENT	CSIR - NATIONAL ENVIRONMENTAL ENGINEERING RESEARCH INSTITUTE NAGPUR.	
SCHEME	TOPOGRAPHICAL SURVEY OF 4 TOWNS IN BIHAR STATE	
TITLE	CROSS SECTION OF RAMREKHA RIVER (Chainage 2870 M) AT RAMNAGAR (HARINAGAR)	
CONSULTANT	<b style="color: red;">M/s SURCON ENGINEERS OPP. OF BANK OF INDIA, JAGADAMBA HEIGHT, UG-2, MANKAPUR SQ., KORADI ROAD, NAGPUR. 440030 PH. 9823070304 E-mail :- surconengineers@gmail.com	
YEAR FEB. - 2021	SCALE HORIZONTAL:- 1:200 VERTICLE :- 1:50	DRG NO. 19
SECTION ENGINEER (PMPD) CSIR - NEERI, NAGPUR.	ASSISTANT SCIENTIST CSIR - NEERI, NAGPUR.	DIRECTOR CSIR - NEERI, NAGPUR.

RAMREKHA RIVER CROSS SECTION AT CHAINAGE 3040.00 Mtr.

SCALE
HORIZONTAL:- 1 : 200
VERTICAL :- 1 : 50

LEGENDS	
GROUND PROFILE	



INVERT LEVEL (M)	
GROUND LEVEL (M)	83.360 83.080 82.690 82.290 81.730 81.220 80.860 80.620 80.570 80.640 81.110 81.650 82.220 82.780 83.350 84.180 84.030 85.497
CHAINAGE (M)	-15.399 -14.000 -12.000 -10.000 -8.000 -6.000 -4.000 -2.000 0.000 2.000 4.000 6.000 8.000 10.000 12.000 14.000 15.836 18.190

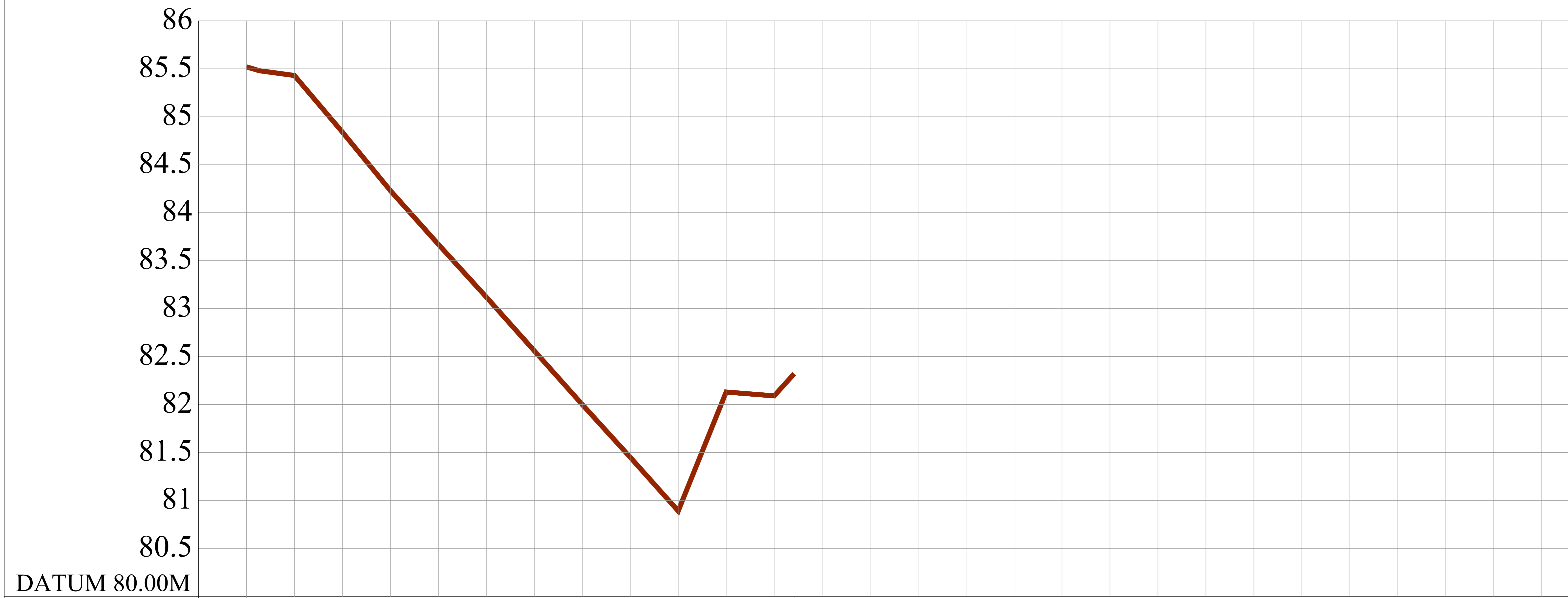
DETAILS	Chainage 3040.00 M
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CLIENT	CSIR - NATIONAL ENVIRONMENTAL ENGINEERING RESEARCH INSTITUTE NAGPUR.	
SCHEME	TOPOGRAPHICAL SURVEY OF 4 TOWNS IN BIHAR STATE	
TITLE	CROSS SECTION OF RAMREKHA RIVER (Chainage 3040 M) AT RAMNAGAR (HARINAGAR)	
CONSULTANT	M/s SURCON ENGINEERS OPP. OF BANK OF INDIA, JAGADAMBA HEIGHT, UG-2, MANKAPUR SQ., KORADI ROAD, NAGPUR. 440030 PH. 9823070304 E-mail :- surconengineers@gmail.com	
YEAR FEB. - 2021	SCALE HORIZONTAL:- 1:200 VERTICLE :- 1:50	DRG NO. 20
SECTION ENGINEER (PMPD) CSIR - NEERI, NAGPUR.	ASSISTANT SCIENTIST CSIR - NEERI, NAGPUR.	DIRECTOR CSIR - NEERI, NAGPUR.

RAMREKHA RIVER CROSS SECTION AT CHAINAGE 3140.00 Mtr.

SCALE
HORIZONTAL:- 1 : 200
VERTICAL :- 1 : 50

LEGENDS	
GROUND PROFILE	



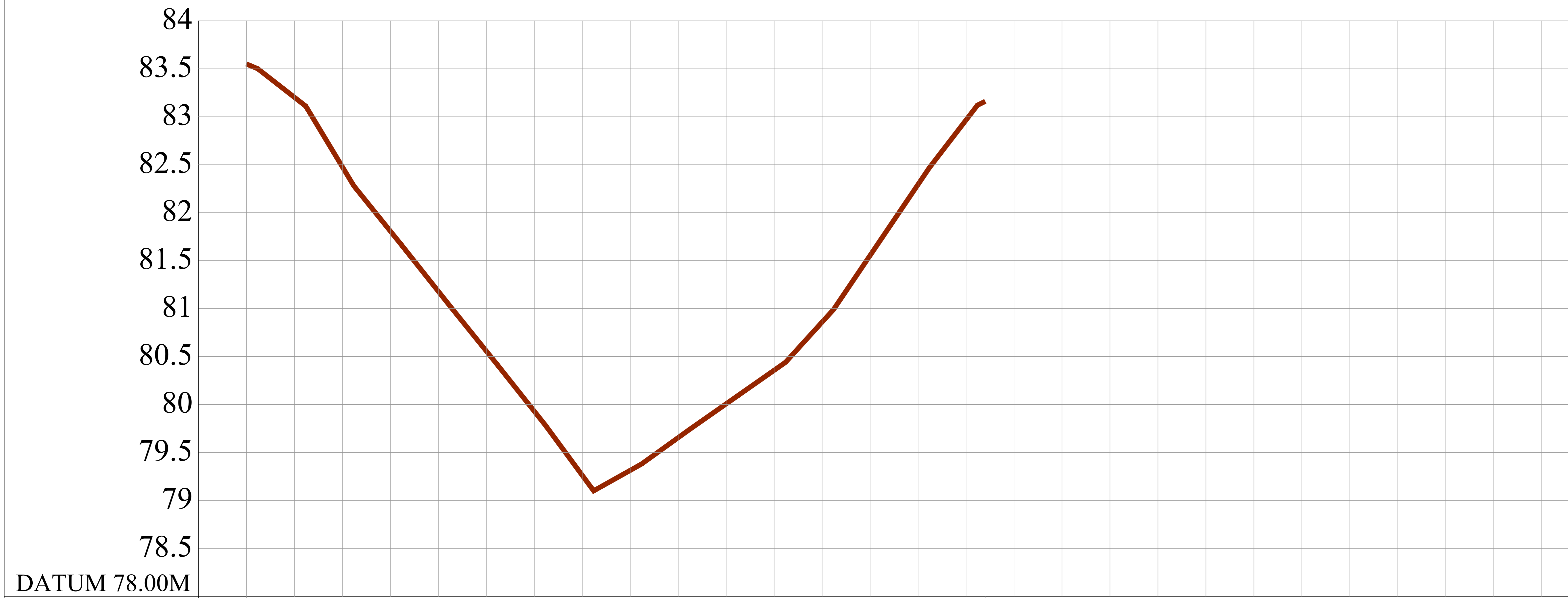
INVERT LEVEL (M)	
GROUND LEVEL (M)	85.520 85.430 84.840 84.230 83.670 83.120 82.560 82.000 81.450 80.890 82.130 82.090 82.320
CHAINAGE (M)	-14.000 -12.000 -10.000 -8.000 -6.000 -4.000 -2.000 0.000 2.000 4.000 6.000 8.000 8.833
DETAILS	Chainage 3140.00 M

CLIENT	CSIR - NATIONAL ENVIRONMENTAL ENGINEERING RESEARCH INSTITUTE NAGPUR.	
SCHEME	TOPOGRAPHICAL SURVEY OF 4 TOWNS IN BIHAR STATE	
TITLE	CROSS SECTION OF RAMREKHA RIVER (Chainage 3140 M) AT RAMNAGAR (HARINAGAR)	
CONSULTANT	M/s SURCON ENGINEERS OPP. OF BANK OF INDIA, JAGADAMBA HEIGHT, UG-2, MANKAPUR SQ., KORADI ROAD, NAGPUR. 440030 PH. 9823070304 E-mail :- surconengineers@gmail.com	
YEAR FEB. - 2021	SCALE HORIZONTAL:- 1:200 VERTICLE :- 1:50	DRG NO. 21
SECTION ENGINEER (PMPD) CSIR - NEERI, NAGPUR.	ASSISTANT SCIENTIST CSIR - NEERI, NAGPUR.	DIRECTOR CSIR - NEERI, NAGPUR.

RAMREKHA RIVER CROSS SECTION AT CHAINAGE 3570.00 Mtr.

SCALE
HORIZONTAL:- 1 : 200
VERTICAL :- 1 : 50

LEGENDS	
GROUND PROFILE	

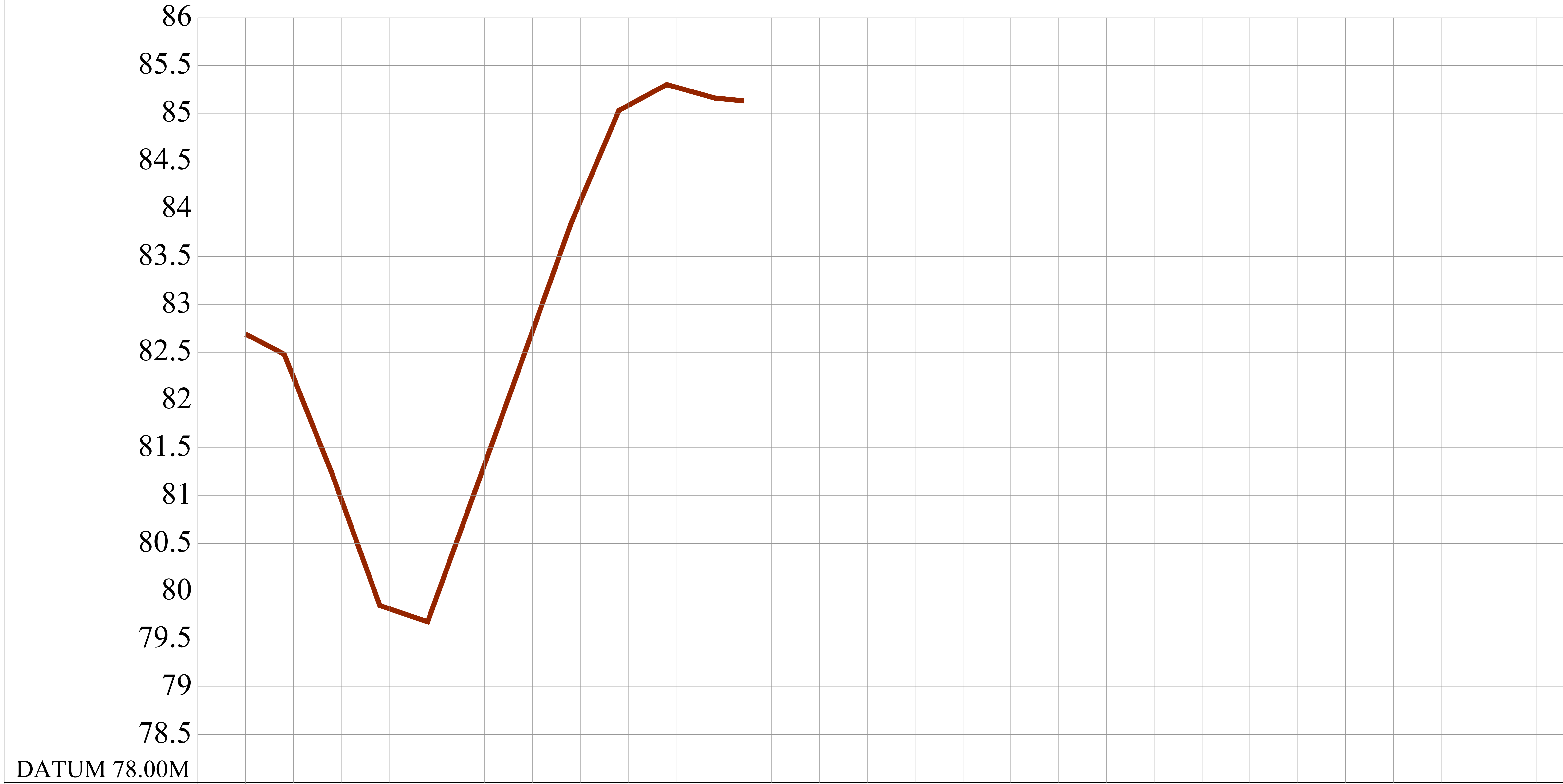


		CLIENT	CSIR - NATIONAL ENVIRONMENTAL ENGINEERING RESEARCH INSTITUTE NAGPUR.	
INVERT LEVEL (M)		SCHEME	TOPOGRAPHICAL SURVEY OF 4 TOWNS IN BIHAR STATE	
GROUND LEVEL (M)	-14.000 83.500 -12.000 83.110 -10.000 82.280 -8.000 81.660 -6.000 81.030 -4.000 80.410 -2.000 79.780 0.000 79.100 2.000 79.380 4.000 79.740 6.000 80.090 8.000 80.440 10.000 80.990 12.000 81.730 14.000 82.470 16.000 83.120	TITLE	CROSS SECTION OF RAMREKHA RIVER (Chainage 3570 M) AT RAMNAGAR (HARINAGAR)	
CHAINAGE (M)		CONSULTANT	M/s SURCON ENGINEERS OPP. OF BANK OF INDIA, JAGADAMBA HEIGHT, UG-2, MANKAPUR SQ., KORADI ROAD, NAGPUR. 440030 PH. 9823070304 E-mail :- surconengineers@gmail.com	
DETAILS	Chainage 3570.00 M	YEAR	SCALE	DRG NO. 22
		FEB. - 2021	HORIZONTAL:- 1:200 VERTICLE :- 1:50	
		SECTION ENGINEER (PMPD) CSIR - NEERI, NAGPUR.	ASSISTANT SCIENTIST CSIR - NEERI, NAGPUR.	DIRECTOR CSIR - NEERI, NAGPUR.

RAMREKHA RIVER CROSS SECTION AT CHAINAGE 3760.00 Mtr.

SCALE
HORIZONTAL:- 1 : 200
VERTICAL :- 1 : 50

LEGENDS	
GROUND PROFILE	



DATUM 78.00M
INVERT LEVEL (M)
GROUND LEVEL (M)
CHAINAGE (M)
DETAILS

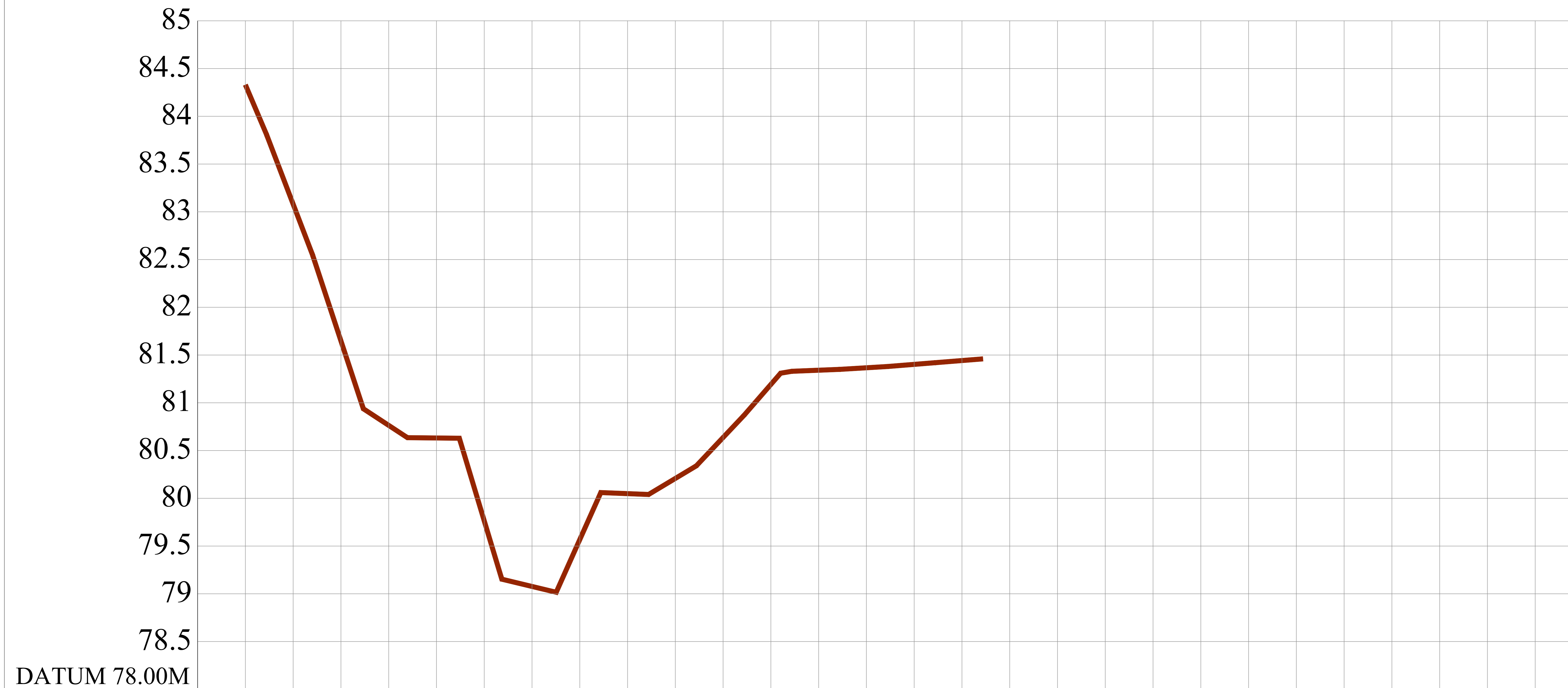
	←		→
82.690	82.480	81.230	79.850
79.680	81.060	82.450	83.850
85.030	85.300	85.160	85.130
-7.611	-6.000	-4.000	-2.000
0.000	2.000	4.000	6.000
8.000	10.000	12.000	13.227
Chainage 3760.00 M			

CLIENT	CSIR - NATIONAL ENVIRONMENTAL ENGINEERING RESEARCH INSTITUTE NAGPUR.	
SCHEME	TOPOGRAPHICAL SURVEY OF 4 TOWNS IN BIHAR STATE	
TITLE	CROSS SECTION OF RAMREKHA RIVER (Chainage 3760 M) AT RAMNAGAR (HARINAGAR)	
CONSULTANT	<div style="text-align: center; color: red; font-weight: bold;">M/s SURCON ENGINEERS</div> <small>OPP. OF BANK OF INDIA, JAGADAMBA HEIGHT, UG-2, MANKAPUR SQ., KORADI ROAD, NAGPUR. 440030 PH. 9823070304 E-mail :- surconengineers@gmail.com</small>	
YEAR FEB. - 2021	SCALE HORIZONTAL:- 1:200 VERTICLE :- 1:50	DRG NO. 23
SECTION ENGINEER (PMPD) CSIR - NEERI, NAGPUR.	ASSISTANT SCIENTIST CSIR - NEERI, NAGPUR.	DIRECTOR CSIR - NEERI, NAGPUR.

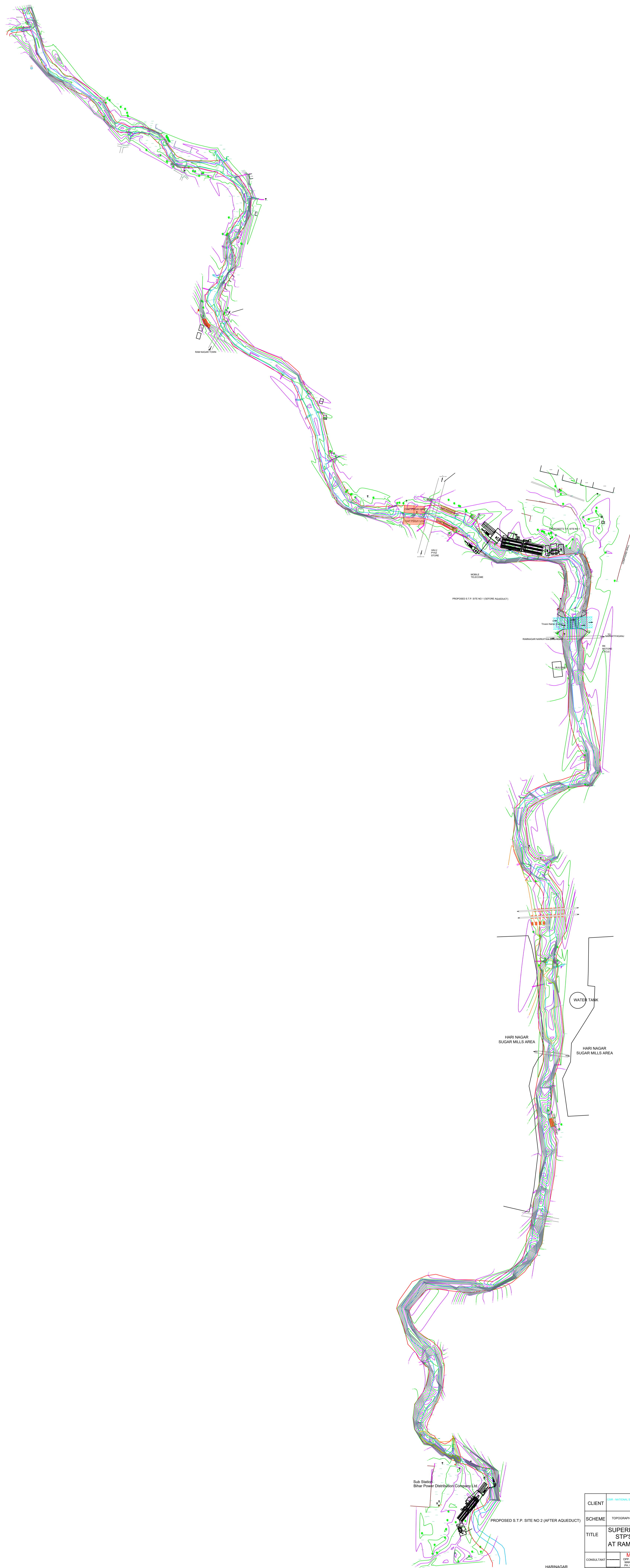
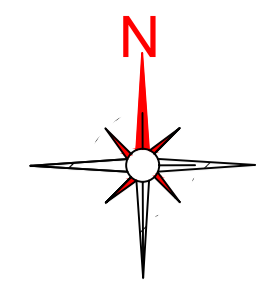
RAMREKHA RIVER CROSS SECTION AT CHAINAGE 3880.00 Mtr.

SCALE
HORIZONTAL:- 1 : 200
VERTICAL :- 1 : 50

LEGENDS	
GROUND PROFILE	



CLIENT	CSIR - NATIONAL ENVIRONMENTAL ENGINEERING RESEARCH INSTITUTE NAGPUR.	
SCHEME	TOPOGRAPHICAL SURVEY OF 4 TOWNS IN BIHAR STATE	
TITLE	CROSS SECTION OF RAMREKHA RIVER (Chainage 3880 M) AT RAMNAGAR (HARINAGAR)	
CONSULTANT	<div style="text-align: center; color: red; font-weight: bold;">M/s SURCON ENGINEERS</div> <small>OPP. OF BANK OF INDIA, JAGADAMBA HEIGHT, UG-2, MANKAPUR SQ., KORADI ROAD, NAGPUR. 440030 PH. 9823070304 E-mail :- surconengineers@gmail.com</small>	
YEAR	SCALE HORIZONTAL:- 1:200 VERTICLE :- 1:50	DRG NO. 24
DETAILS	Chainage 3880.00 M	
SECTION ENGINEER (PMPD) <small>CSIR - NEERI, NAGPUR.</small>	ASSISTANT SCIENTIST <small>CSIR - NEERI, NAGPUR.</small>	DIRECTOR <small>CSIR - NEERI, NAGPUR.</small>



HARI NAGAR
HIGH
SCHOOL

CLIENT	M/S. SURCON ENGINEERS (PVT.) ENGINEERING RESEARCH INSTITUTE NAGPUR.	
SCHEME	TOPOGRAPHICAL SURVEY OF 4 TOWNS IN BIHAR STATE	
TITLE	SUPERIMPOSED DRAWING OF STP'S ON CONTOUR MAP AT RAMNAGAR (HARI NAGAR)	
CONSULTANT	M/S. SURCON ENGINEERS ONE, 2 ND FLOOR, BANGSAR, RAJNAGAR, RAJNAGAR, RAJNAGAR, RAJNAGAR BY REGISTERED CIVIL ENGINEER (M.E.C.E.)	
YEAR FEB. -2021	SCALE 1:5000	DRG NO. D25
SECTION ENGINEER (D.P.S.) DR. SURESH K. SHARMA	ASSISTANT SCIENTIST DR. SURESH K. SHARMA	DIRECTOR DR. SURESH K. SHARMA