



**GOVERNMENT OF ODISHA
DEPARTMENT OF WATER RESOURCES**

**BIDDING DOCUMENT FOR EPC CONTRACT
Bid Identification No. - 06ML/2026-27**

**MEGA LIFT IRRIGATION PROJECTS
CLUSTER No. – XXIX**

NAME OF WORK

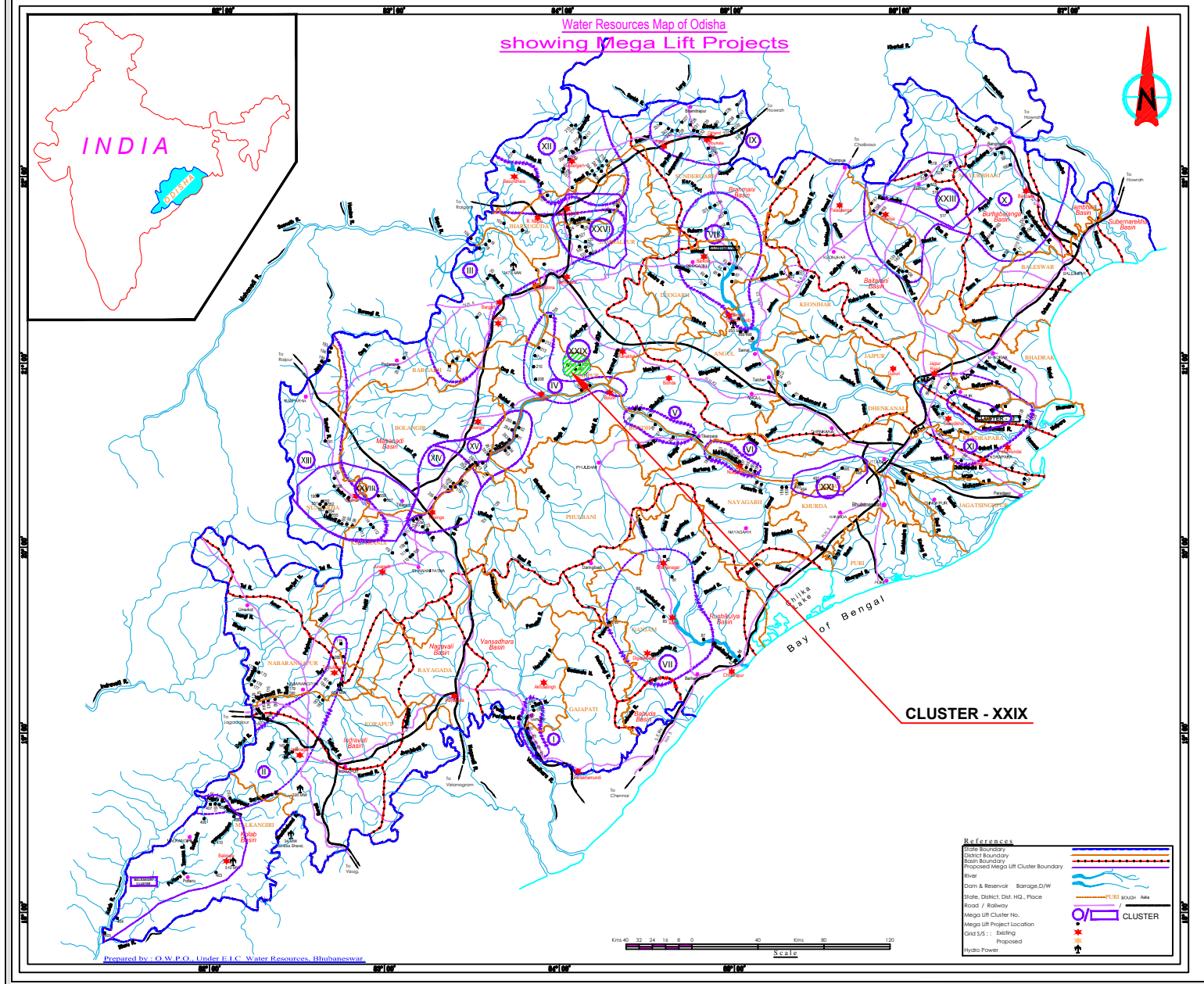
EXECUTION OF 04 NOS. OF LIFT IRRIGATION SCHEMES WITH INTAKE POINTS ON SURUBALI JORE (SURUBALI JORE ISS), HARIHAR JORE (HARIHAR JORE ISS), MAHANADI RIVER (NEAR GODHENESWAR ISS/ ISS KAPASIRA) HAVING COMMAND AREA BETWEEN 500HA. TO 2000 HA. IN CLUSTER NO. XXIX IN THE DISTRICT OF SONEPUR INCLUDING ITS DISTRIBUTION NETWORK, UP TO 1 HA CHAK HAVING TOTAL PLANNED CULTURABLE COMMAND AREA OF 6,710HA. ON “EPC –TURN KEY” BASIS INCLUDING POWER SYSTEM CONNECTIVITY AND OPERATION & MAINTENANCE OF COMPLETE COMMISSIONED SCHEMES FOR 15 YEARS.

VOLUME – III

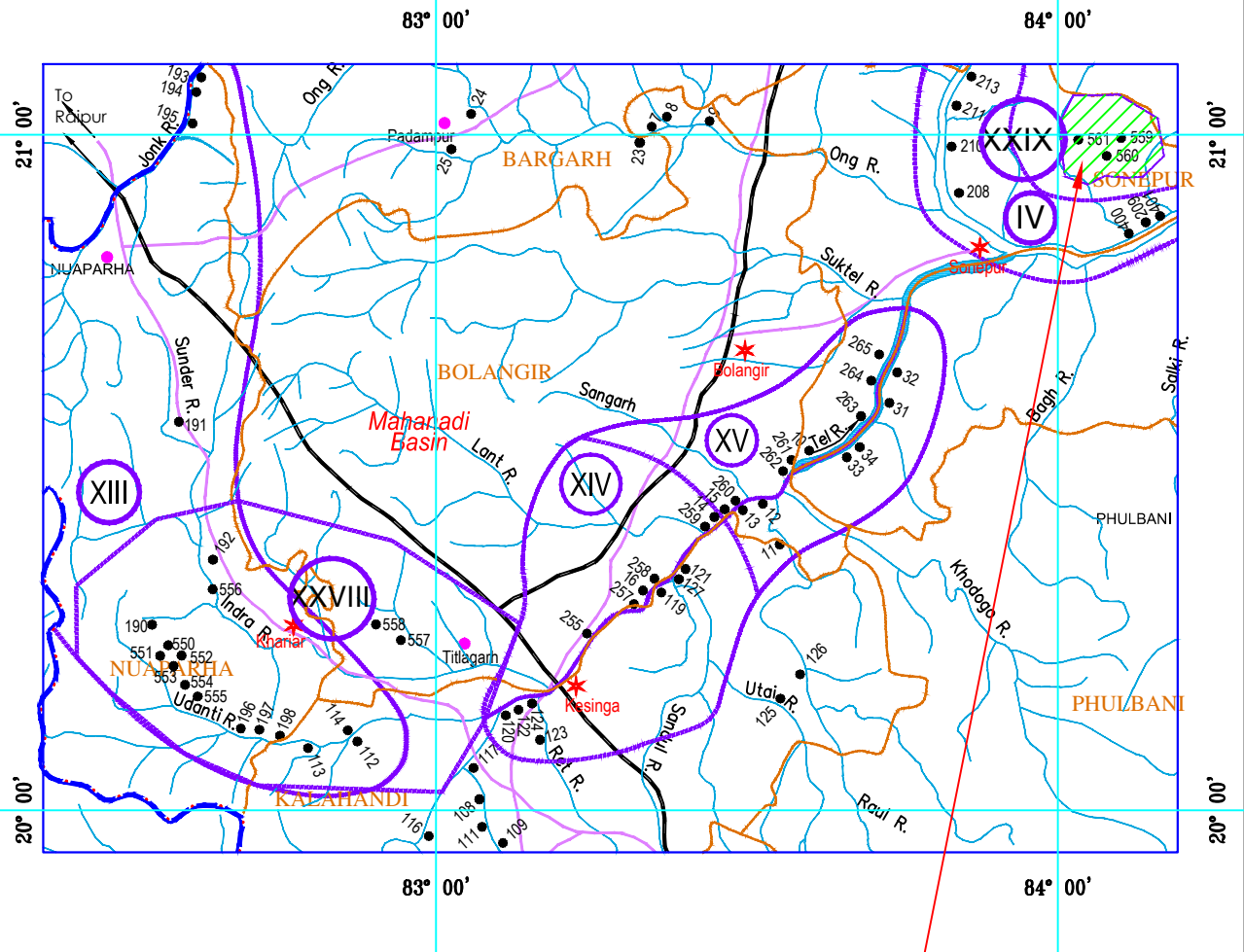
**BID DRAWING
(EPC – TURN KEY CONTRACT)**

**OFFICE OF THE CHIEF ENGINEER
MEGA LIFT, BHUBANESWAR
PLOT No. – A – 8/2, FIRST FLOOR, BHOINAGAR, BHUBANESWAR – 751022
E-mail Id: cemegalift-eicwr.od@nic.in, cemlpwr.od@gmail.com
Tel No.-(0674) 2567252**

Index Map



PROPOSED MEGA LIFT IRRIGATION SCHEME UNDER CLUSTER - XXIX



CLUSTER - XXIX

Sl. No.	Tentative Location of Pump House	ID No.	C.C.A (Ha.)
1	Kamira	559	1330
2	Pittamohul	560	1480
3	Mursundi	561	1920
4	Nandanmal	597	1980
	Total	=	6710

CLUSTER - XXIX

References

State Boundary	—
District Boundary	—
Basin Boundary	—
Proposed Mega Lift Cluster Boundary	—
River	—
Dam & Reservoir Barrage/D/W	—
State, District, Dist. H.Q., Place	—
Road / Railway	—
Mega Lift Cluster No.	—
Mega Lift Scheme with ID	—
Grid S/S :: Existing	—
Proposed	—
Hydro Power	—
Cluster - XXI (BANKI)	—

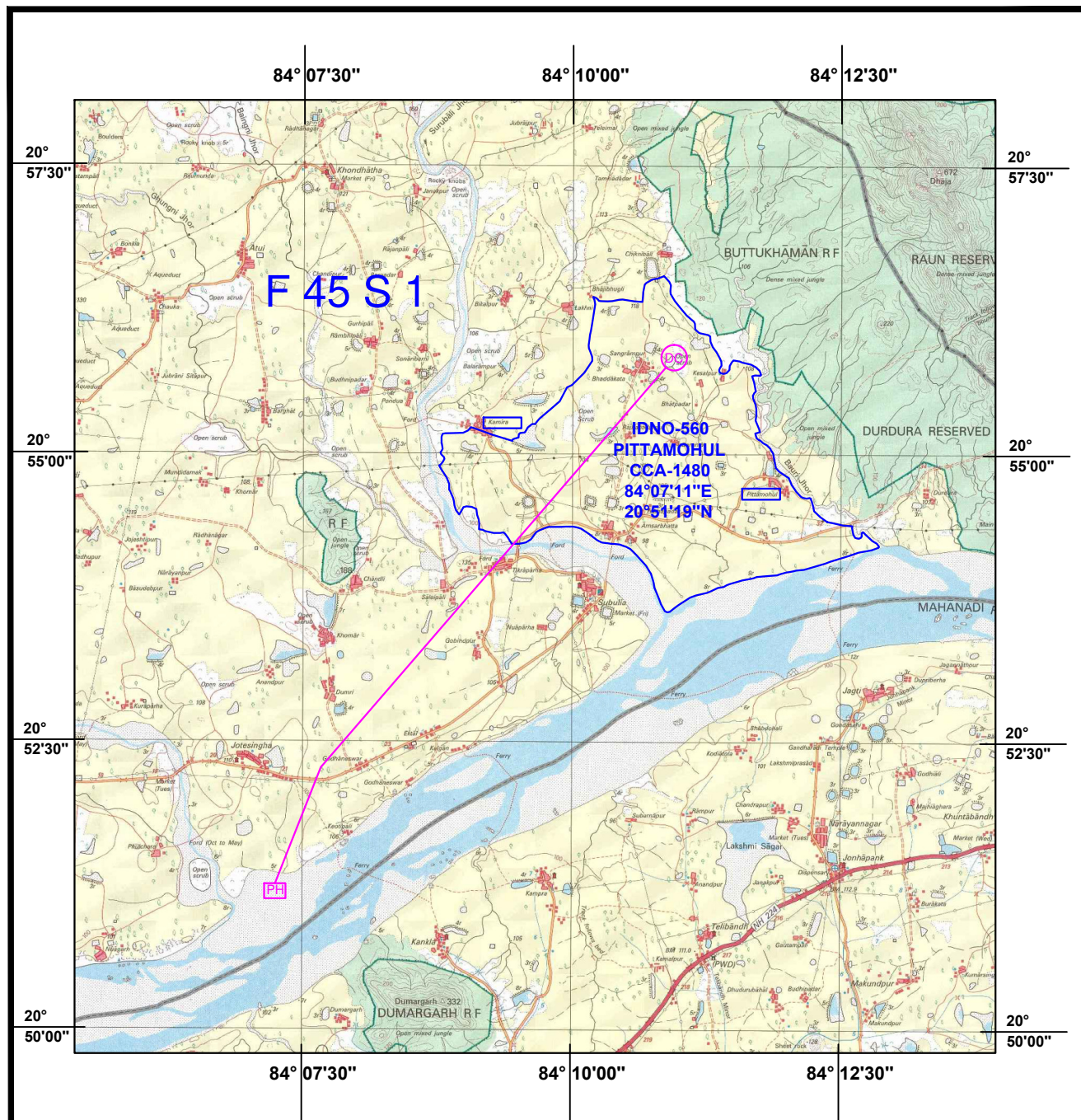
PUMPING POINT -

AYACUT BOUNDARY -

PERSSUR PIPELINE -

TOPO SHEET - F 45 S 1

INDEX MAP OF ID NO.-560 (PITTAMOHUL) UNDER BIRAMAHARAJPUR BLOCK OF SONEPUR DISTRICT CLUSTER-XXIX



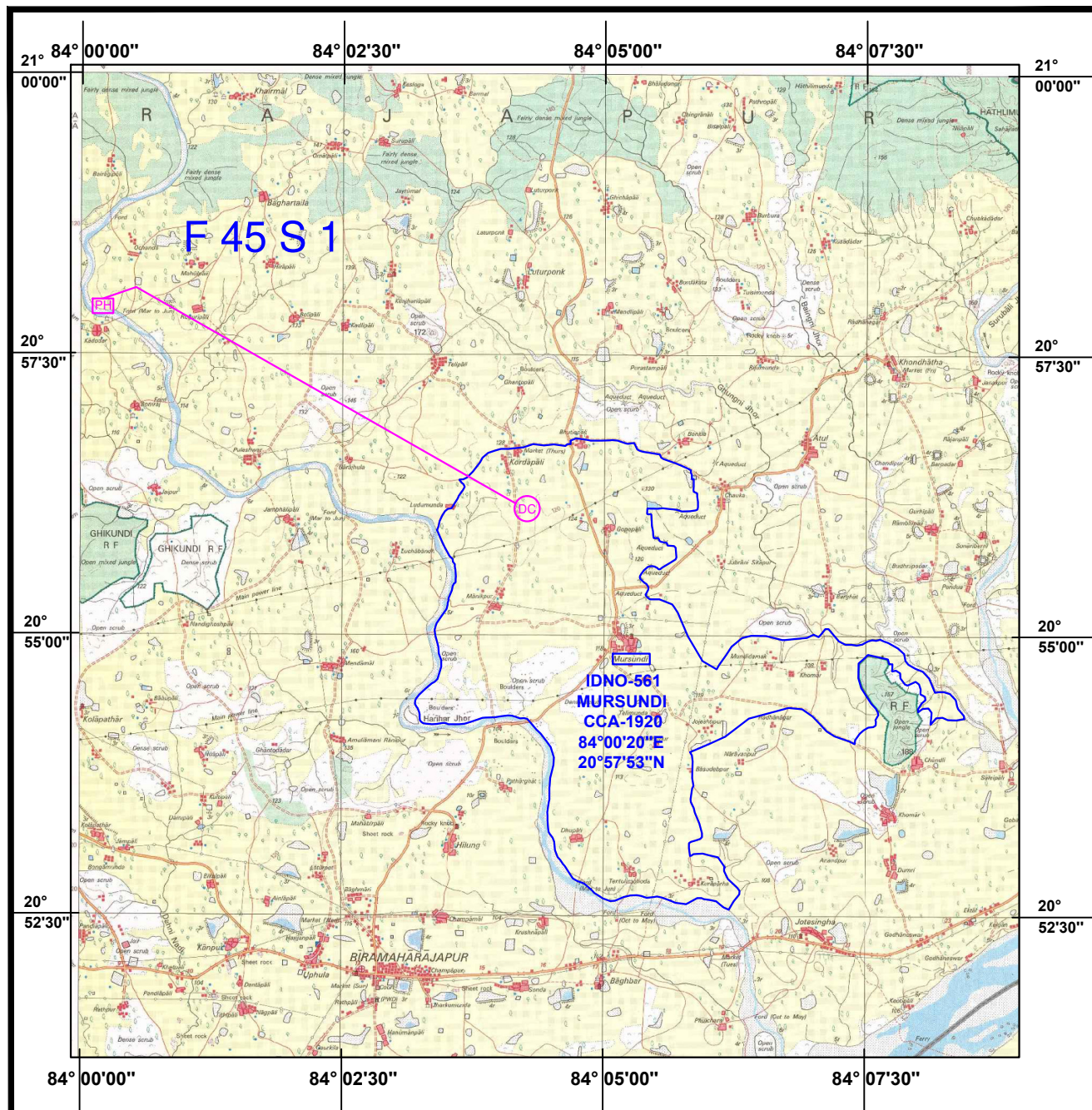
PARTICULARS

DESIGNED AYACUT - 1480 Ha

REFERENCE

PUMPING POINT - 
 AYACUT BOUNDARY - 
 PERSSUR PIPELINE - 
 TOPO SHEET - F 45 S 1

INDEX MAP OF ID NO.-561 (MURSUNDI) UNDER BIRAMAHARAJPUR BLOCK OF SONEPUR DISTRICT CLUSTER-XXIX



PARTICULARS

DESIGNED AYACUT - 1920 Ha

REFERENCE

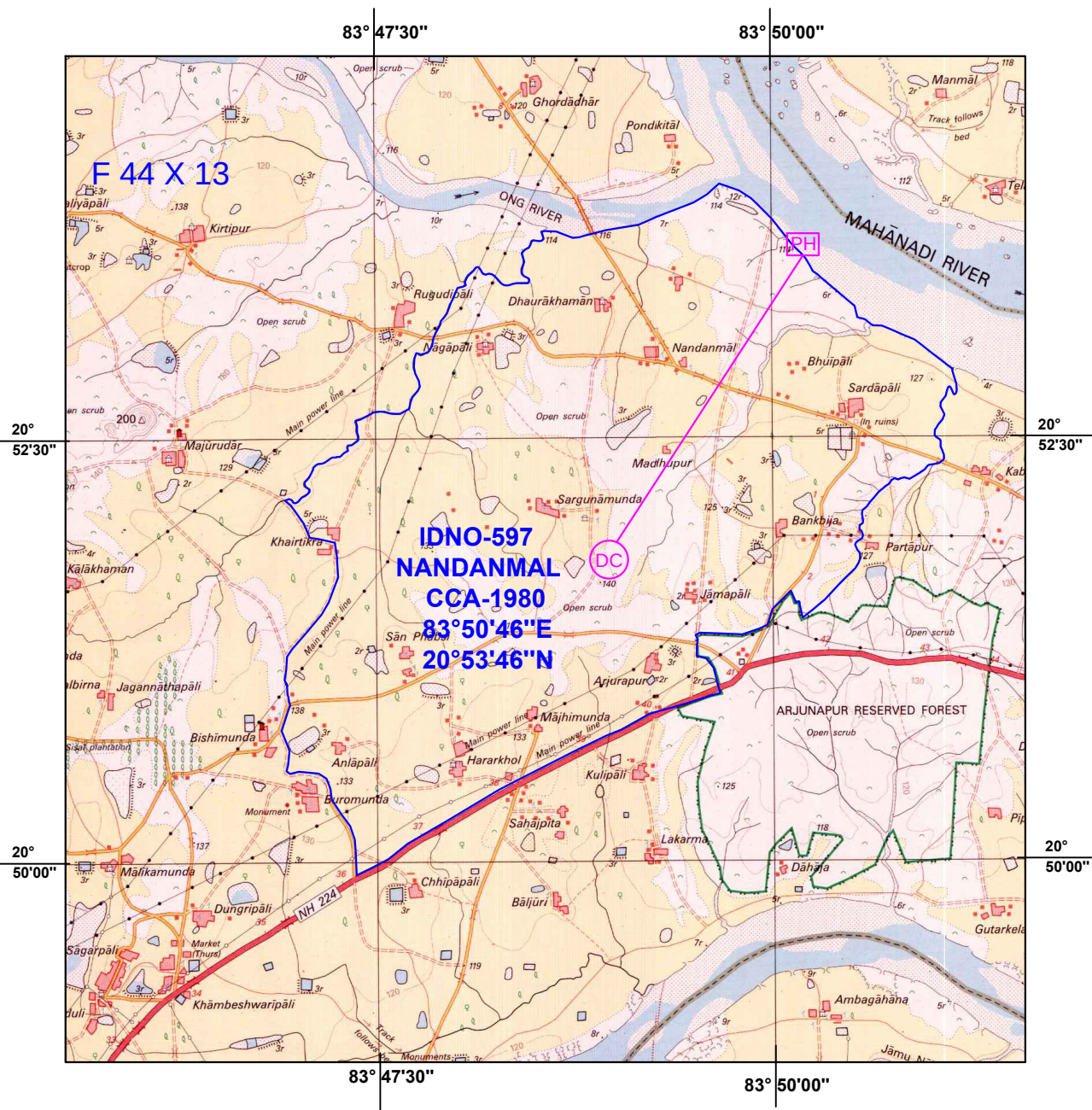
PUMPING POINT - 
AYACUT BOUNDARY - 
PERSUR PIPELINE - 
TOPO SHEET - F 45 S 1

MEGA LIFT PROJECTS

INDEX MAP OF NANDANMAL (ID NO.- 597) UNDER

SONEPUR BLOCK OF SONEPUR DISTRICT

CLUSTER - XXIX

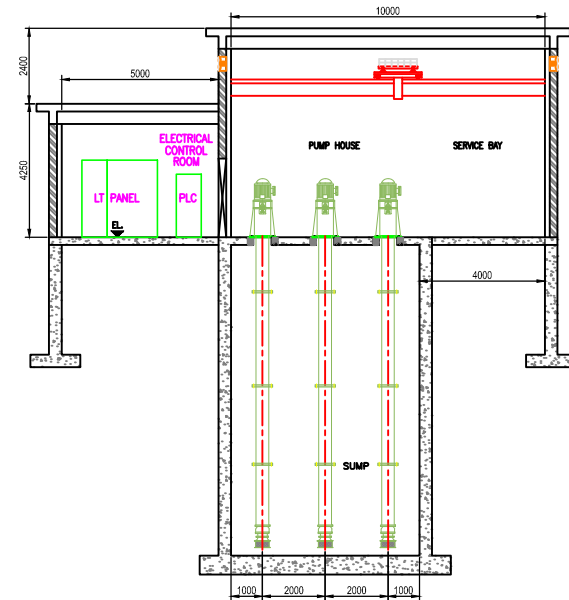
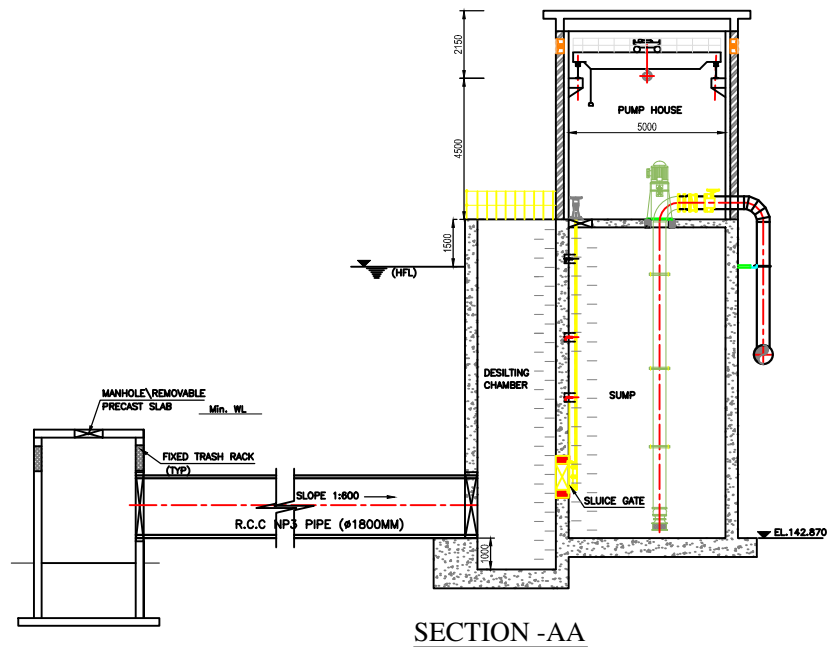
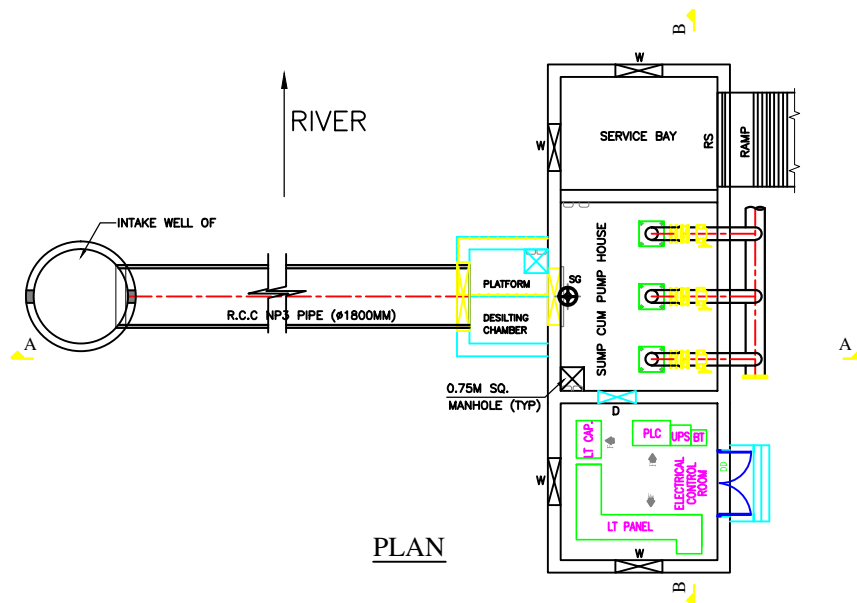


PARTICULARS

DESIGNED AYACUT - 1980 Ha

REFERENCE

PUMPING POINT - PH
 AYACUT BOUNDARY -
 PERSUR PIPELINE -
 TOPO SHEET - F 44 X 13



LEGEND :-

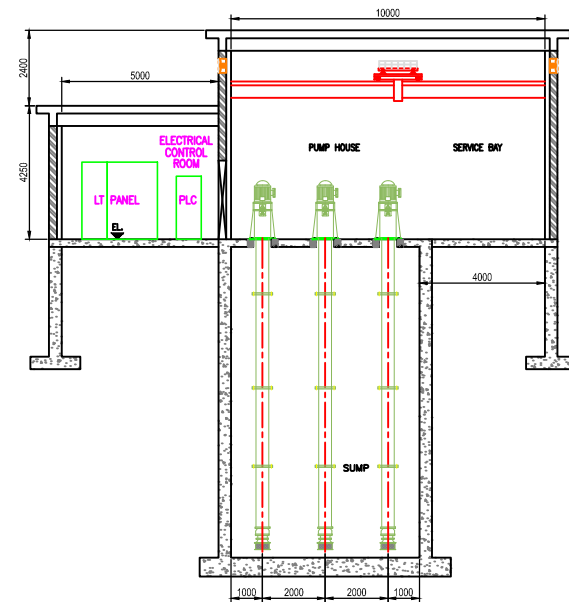
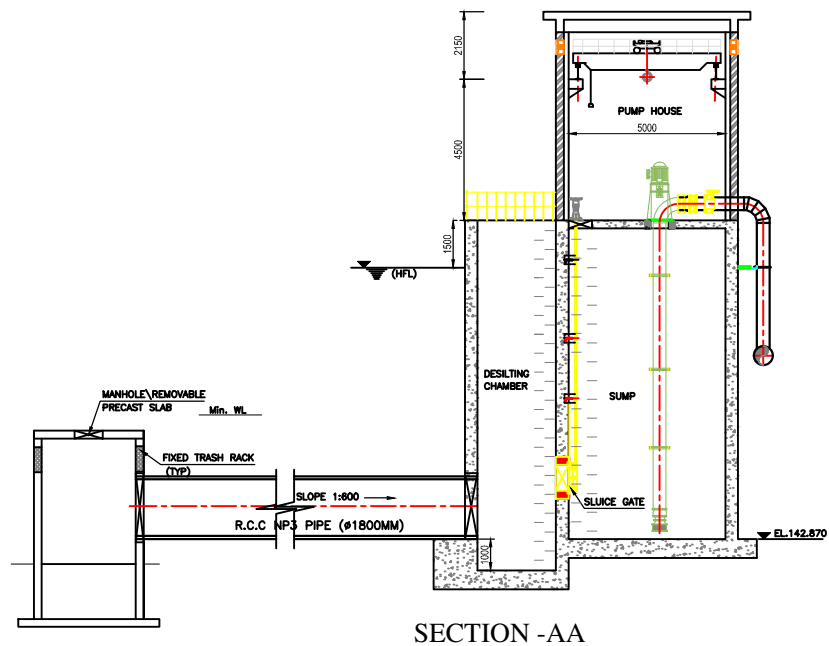
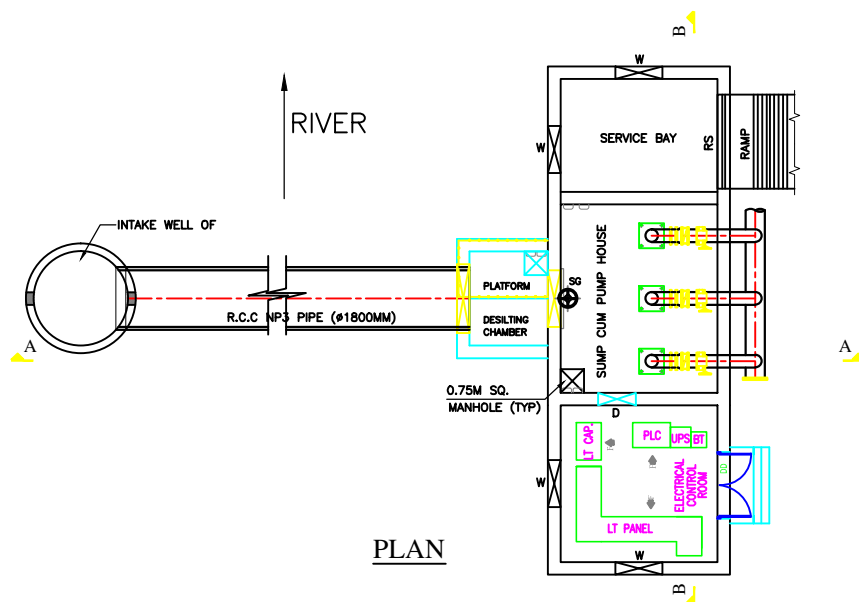
HFL - HIGH FLOOD LEVEL
 LWL - LOW WATER LEVEL
 NGL - NATURAL GROUND LEVEL
 RS - ROLLING SHUTTER
 SG - SLUICE GATE
 W - WINDOW
 D - DOOR

NOTES:

1. ALL DIMENSIONS ARE IN MM AND ELEVATIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
2. HFL SHOWN HERE ARE AS PER LOCAL ENQUIRY AT SITE.
3. THIS DRAWING IS INDICATIVE ONLY. THE EPC DEVELOPER WILL SUBMIT THE DETAILED DRAWINGS FOR APPROVAL.

GOVERNMENT OF ODISHA,
 DEPARTMENT OF WATER RESOURCES
 CHIEF ENGINEER, MEGA LIFT , BHUBANESWAR.

ID NO - 559 (KAMIRA)
 MEGA LIFT PROJECT PUMP HOUSE
 UNDER CLUSTER- XXIX



LEGEND :-

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 LWL - LOW WATER LEVEL
 NGL - NATURAL GROUND LEVEL
 RS - ROLLING SHUTTER
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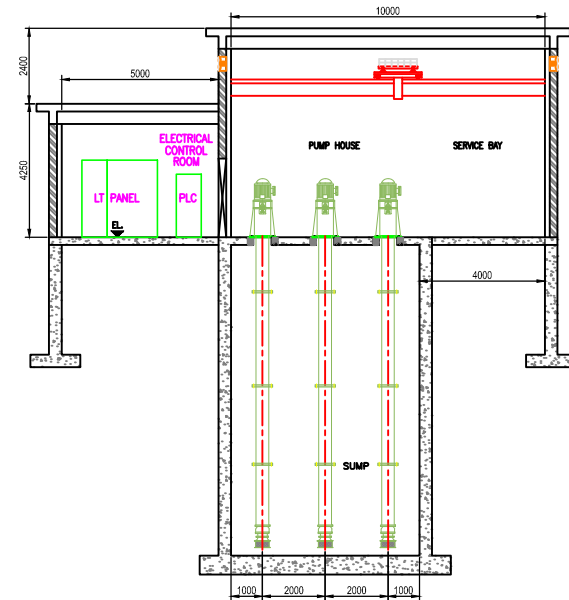
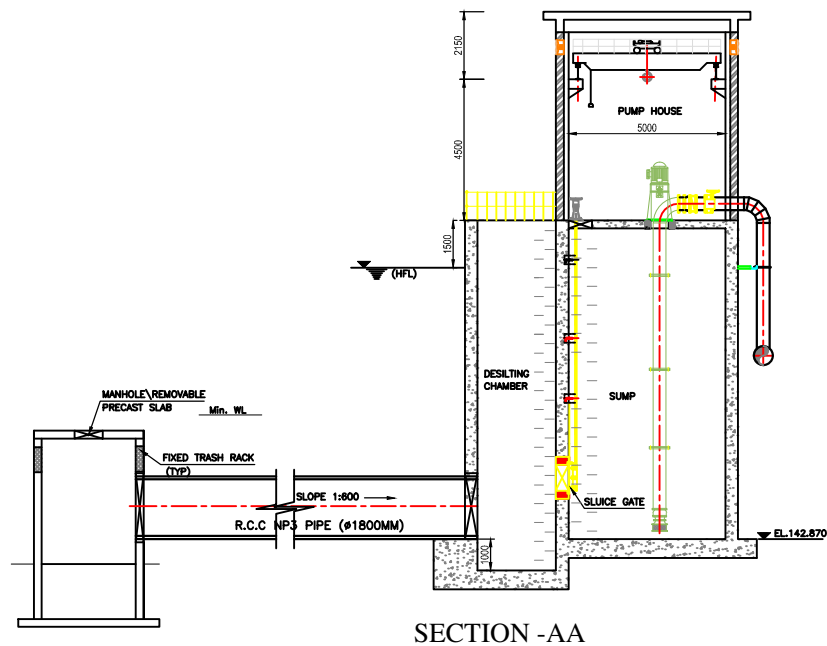
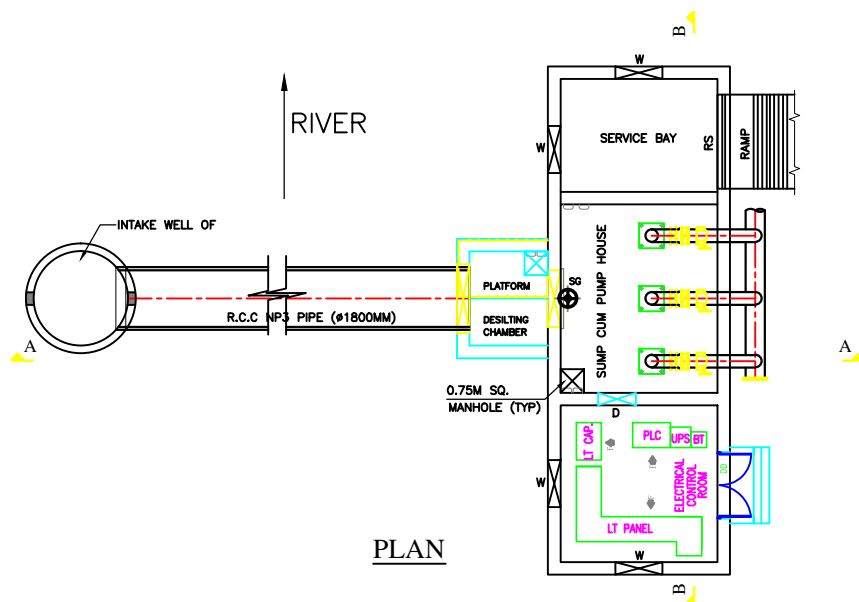
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GOVERNMENT OF ODISHA,
 DEPARTMENT OF WATER RESOURCES

CHIEF ENGINEER, MEGA LIFT , BHUBANESWAR.

ID NO - 560 (PITTA MOHUL)
 MEGA LIFT PROJECT PUMP HOUSE
 UNDER CLUSTER- XXIX



LEGEND :-

HFL - HIGH FLOOD LEVEL
 LWL - LOW WATER LEVEL
 NSL - NATURAL GROUND LEVEL
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 SG - SLUICE GATE
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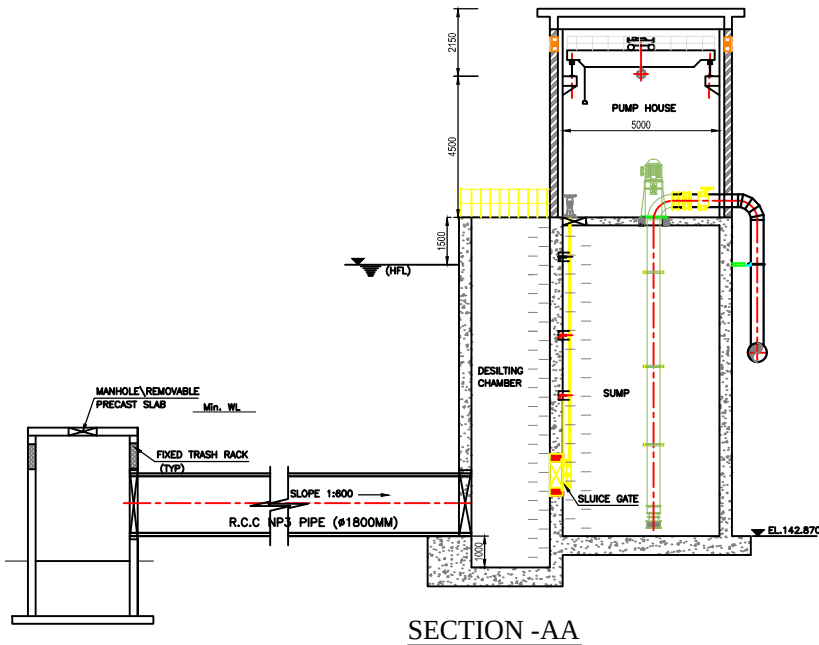
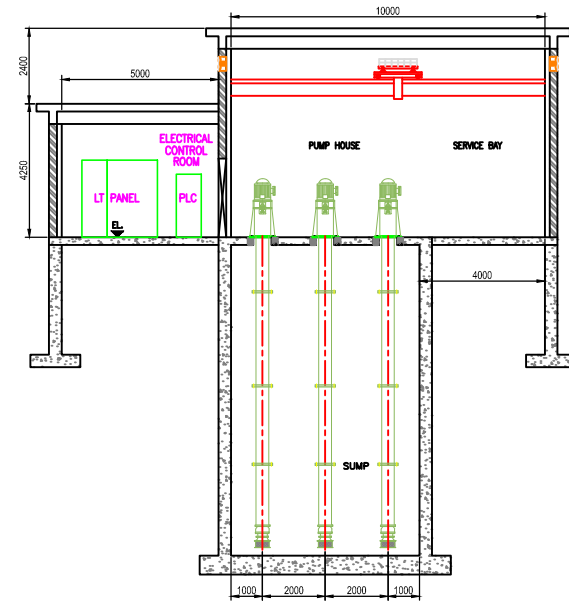
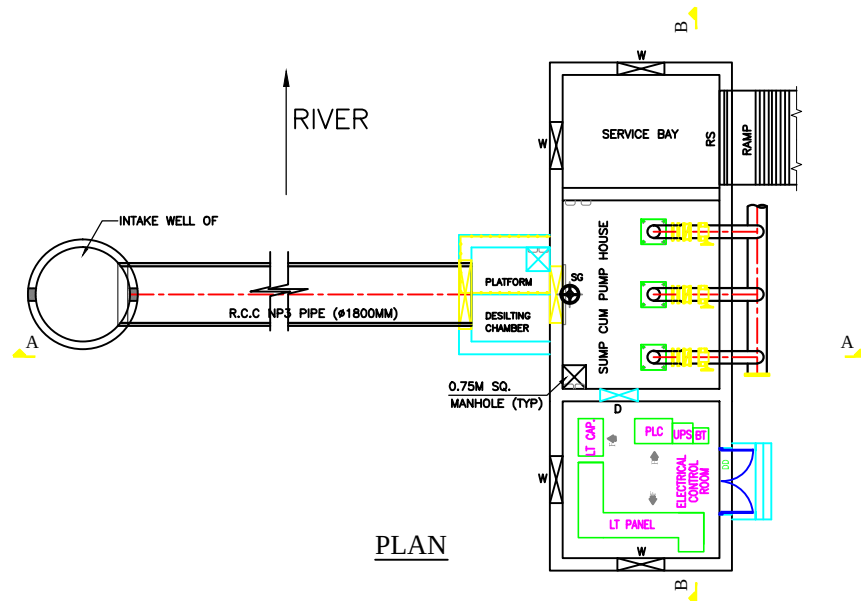
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GOVERNMENT OF ODISHA,
 DEPARTMENT OF WATER RESOURCES

CHIEF ENGINEER, MEGA LIFT , BHUBANESWAR.

ID NO - 561 (MURSUNDI)
 MEGA LIFT PROJECT PUMP HOUSE
 UNDER CLUSTER- XXIX



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 LWL - LOW WATER LEVEL
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 RS - ROLLING SHUTTER
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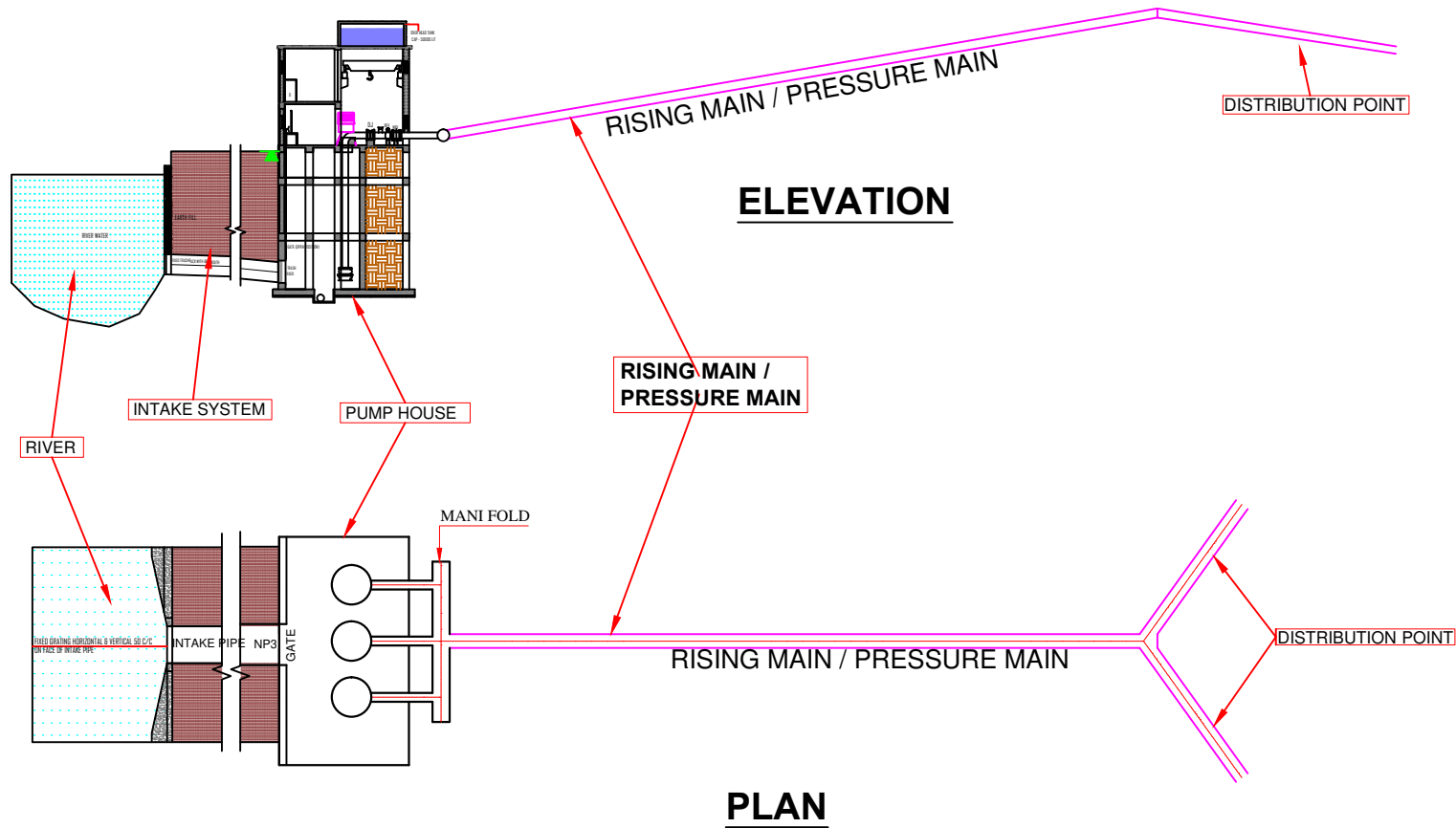
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GOVERNMENT OF ODISHA,
 DEPARTMENT OF WATER RESOURCES
 CHIEF ENGINEER, MEGA LIFT , BHUBANESWAR.

ID NO - 597 (NANDANMAL)
 MEGA LIFT PROJECT PUMP HOUSE
 UNDER CLUSTER- XXIX

**MEGA LIFT PROJECT SCHEMATIC LAYOUT
UNDER SONEPUR DISTRICT
CLUSTER-XXIX , KAMIRA (ID NO-559)**

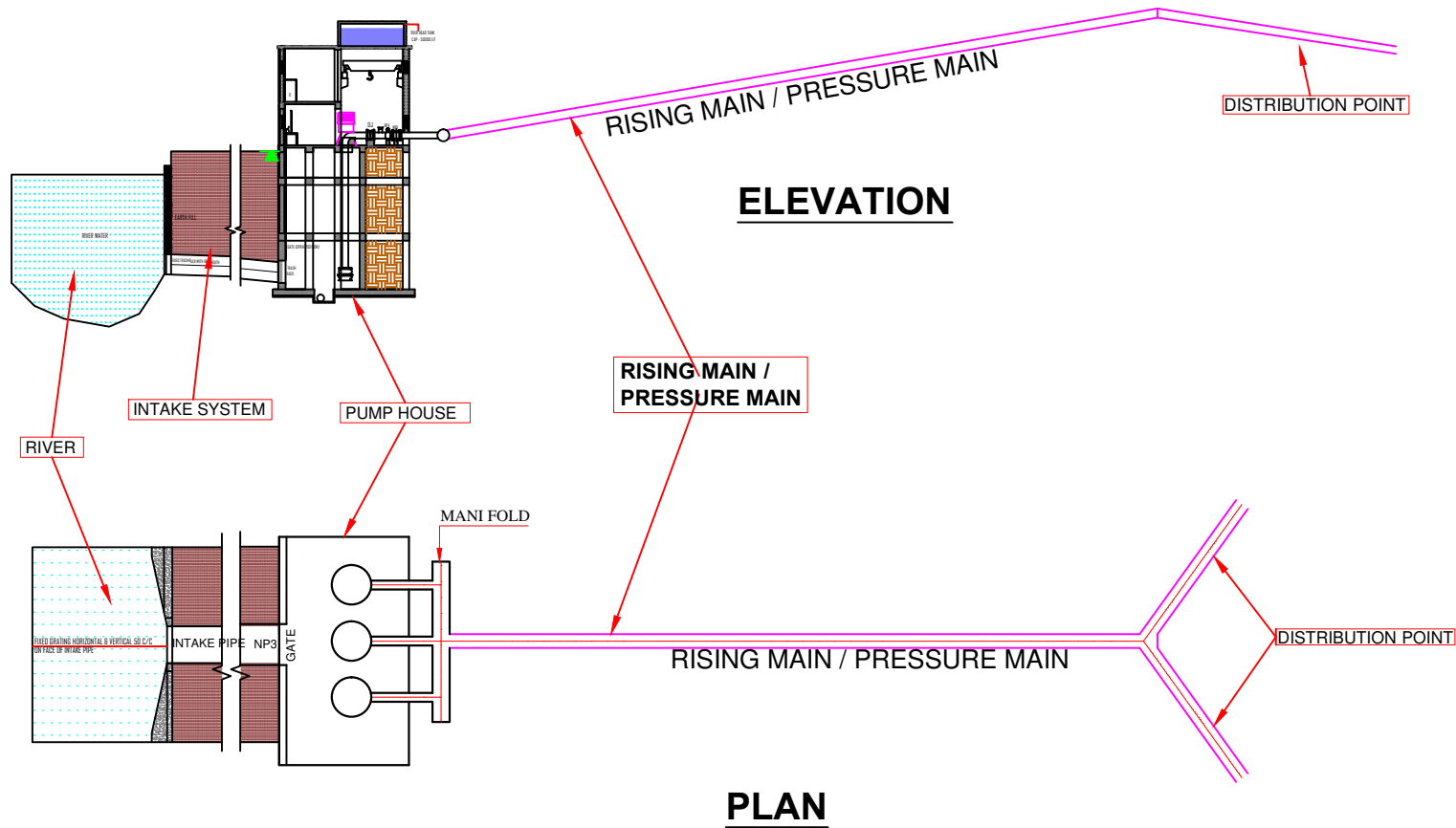


GOVERNMENT OF ODISHA,
DEPARTMENT OF WATER RESOURCES

CHIEF ENGINEER, MEGA LIFT , BHUBANESWAR.

SCHEMATIC LAYOUT

**MEGA LIFT PROJECT SCHEMATIC LAYOUT
UNDER **SONEPUR** DISTRICT
CLUSTER-XXIX , **PITTAMOHUL (ID NO-560)****

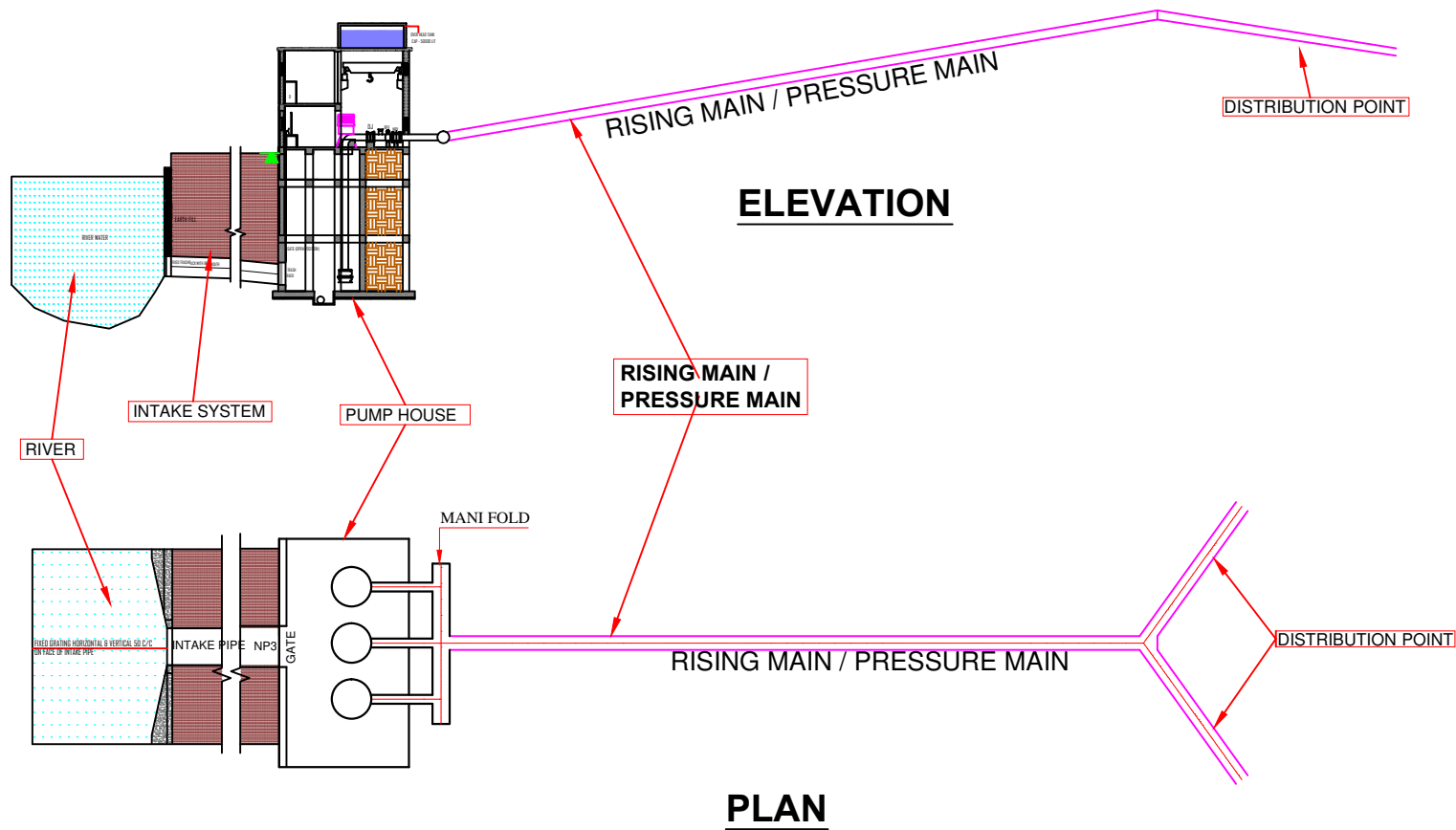


GOVERNMENT OF ODISHA,
DEPARTMENT OF WATER RESOURCES

CHIEF ENGINEER, MEGA LIFT , BHUBANESWAR.

SCHEMATIC LAYOUT

**MEGA LIFT PROJECT SCHEMATIC LAYOUT
UNDER **SONEPUR** DISTRICT
CLUSTER-XXIX, MURSUNDI (ID NO-561)**

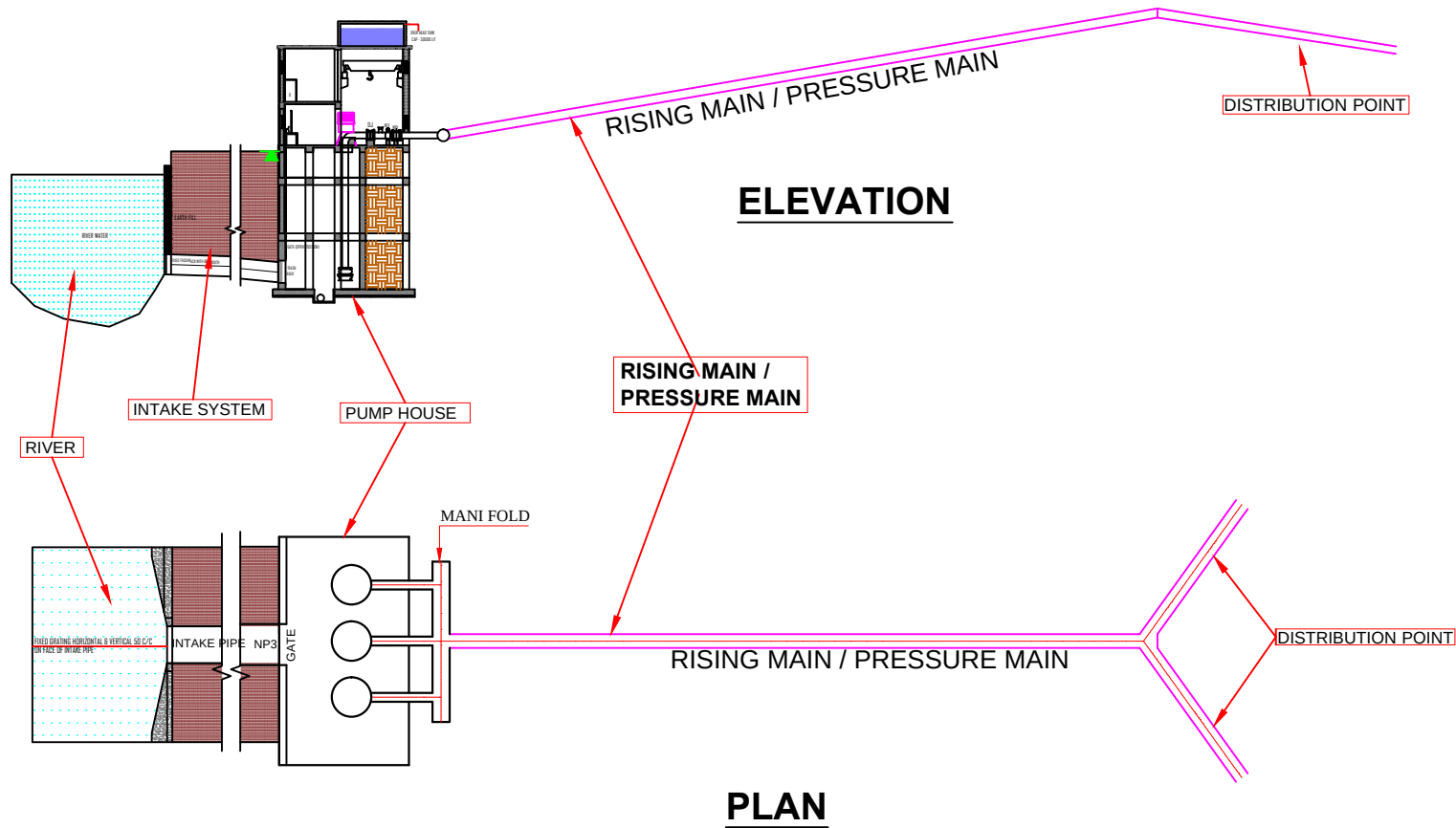


GOVERNMENT OF ODISHA,
DEPARTMENT OF WATER RESOURCES

CHIEF ENGINEER, MEGA LIFT , BHUBANESWAR.

SCHEMATIC LAYOUT

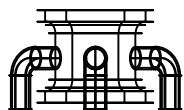
MEGA LIFT PROJECT SCHEMATIC LAYOUT
UNDER SONEPUR DISTRICT
CLUSTER - XXIX, NANDANMAL, (ID NO-597)



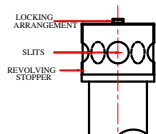
GOVERNMENT OF ODISHA,
DEPARTMENT OF WATER RESOURCES

CHIEF ENGINEER, MEGA LIFT , BHUBANESWAR.

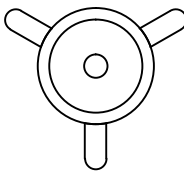
SCHEMATIC LAYOUT



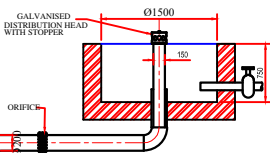
ELEVATION



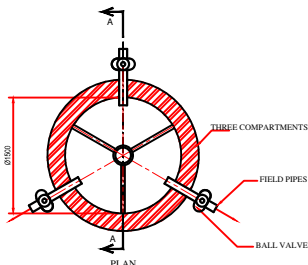
DISTRIBUTION HEAD DETAIL



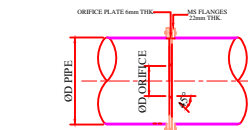
PLAN
DISCHARGE REGULATING DEVICE
FOR PSC/PVC PIPE



SECTION A-A
OUTLET (30 LPS CAPACITY)



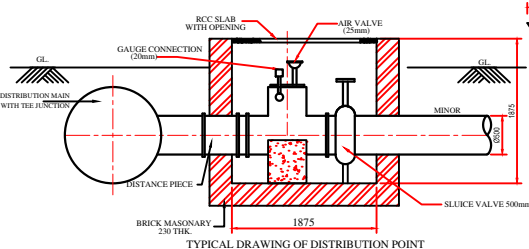
PLAN



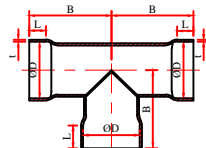
OD PIPE

OD ORIFICE

MS FLANGES
2mm THK.

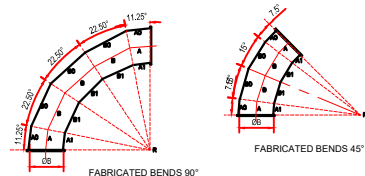


TYPICAL DRAWING OF DISTRIBUTION POINT



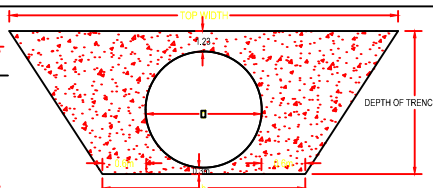
P.V.C. TEES

SIZE	B Min	MINIMUM WALL THICKNESS (t)				
		WORKING PRESSURE				
		0.4 MPa (CLASS 2)		0.6 MPa (CLASS 3)		1.0 MPa (CLASS 4)
(1)	(2)	(3)	(4)	(5)		
200	296	4.2	6.2	10.0		
250	369	5.2	7.7	12.5		
315	463	6.5	9.7	15.6		

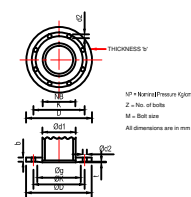


FABRICATED BENDS 90°

FABRICATED BENDS 45°

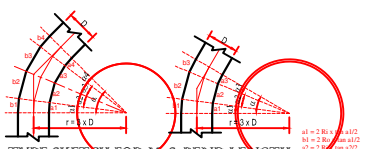


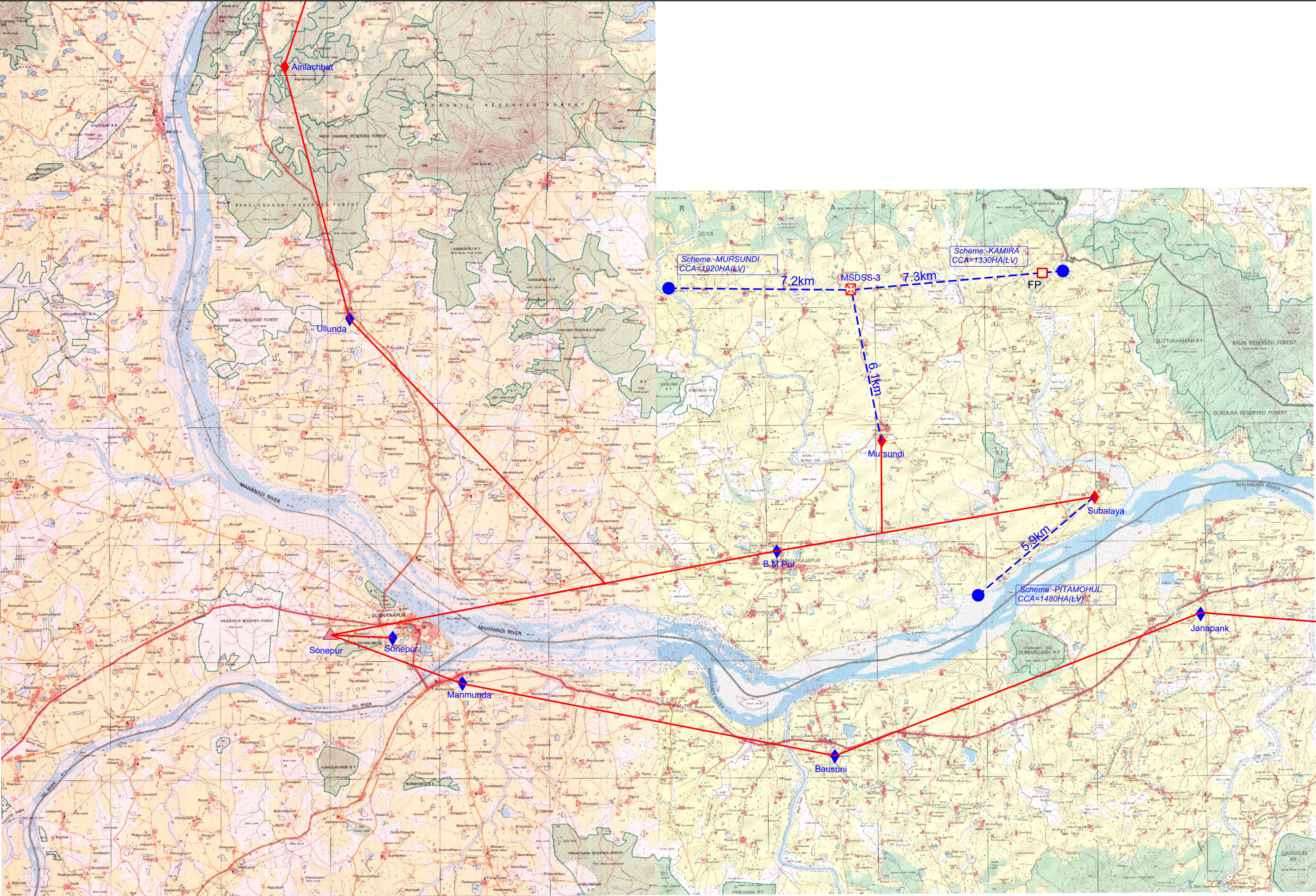
TRENCH DIMENSIONS
DIAMETER OF RISERMAN (d) HEIGHT OF FILLING ABOVE PIPE = 1.2m
BASE WIDTH (b) = d + 1.2m
DEPTH OF TRENCH = d + 1.5m
SIDE SLOPE 1:1
TOP WIDTH OF TRENCH = b + 2 x d
MINIMUM BENDING 0.3m



DIMENSIONS OF PLATE FLANGES
manufactured in accordance with IS 6992-1971

NB	d1	D	b	g	f	K	d2	Z	M
200	219.1	320	22	220	3	200	16	8	M 16
250	273	375	24	272	3	225	16	12	M 16
300	325	440	24	320	3	285	20	12	M 20
350	355	480	25	352	3	335	20	12	M 20
400	426	540	28	420	3	400	25	16	M 25
450	476	595	30	470	3	450	25	20	M 25
500	525	645	32	520	3	500	25	20	M 25
600	630	755	32	620	3	600	25	20	M 25





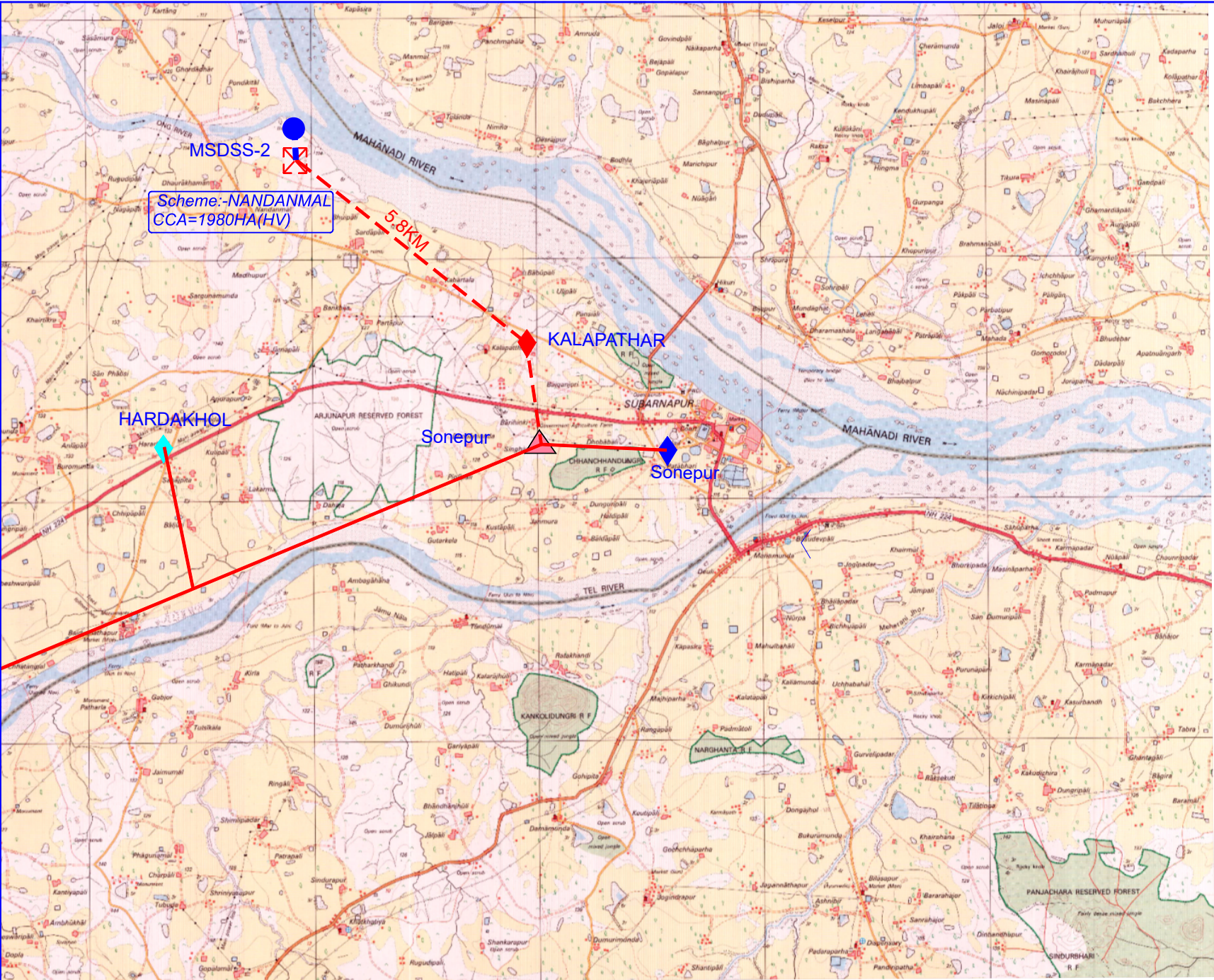
CLUSTER-XXVII MEGA LIFT SCHEME EXHIBIT NO-2

- (A) EHT Backup:
- (1) Existing 132/33kv EHT S/S :
 - (2) Proposed 132/33kv EHT S/S :
 - (3) Existing 220kv S/S :
- (B) DISCOM NETWORK:
- (4) Existing 33/11kv S/S :
 - (5) Proposed 33/11kv s/s under Road Map :
 - (6) Existing 33kv Line (DISCOM) :
 - (7) Proposed 33kv Line (DISCOM) :
- (C) Proposed Network Under Mega Lift Projects:
- (8) Main Stepdown Distribution Sub-Station (33/6.6kv) Proposed :
 - (9) Main step down (MSDSS) station :
 - (10) Mega Lift Project Point :
 - (11) 33kv.Line (Proposed Under EPC Scope) :
 - (12) 6.6kv.Line (Proposed Under EPC Scope) :
 - (13) FP :

DRG:EL-CL-23 Dt.25.01.2023

Scale: 1:100000

Prepared by:PMU,Mega Lift Project under E.I.C. Water Resources



N
SCALE-1:100000
SHEET NO-1/1

MEGA LIFT SCHEME MEGA LIFT PROJECTS DIVISION , SONEPUR

(A) EHT Backup:

- (1) Existing 132/33kv EHT S/S :
- (2) Proposed 132/33kv EHT S/S :
- (3) Existing 220kv S/S :

(B) DISCOM NETWORK:

- (4) Existing 33/11kv S/S :
- (5) Proposed 33/11kv s/s under Road Map :
- (6) Existing 33kv Line (DISCOM) :
- (7) Proposed 33kv Line (DISCOM) :

(C) Proposed Network Under Mega Lift Projects:

- (8) Main Stepdown Distribution Sub-Station (33/6.6kv) Proposed :
- (9) Main step down (MSDSS) station :
- (10) Mega Lift Project Point :
- (11) 33kv.Line (Proposed Under EPC Scope) :
- (12) 6.6kv.Line (Proposed Under EPC Scope) :
- (13) FP :

DRG:EL-1,Dt.12.02.2024

Scale: 1:100000

Prepared by:PMU,Mega Lift Project under E.I.C. Water Resources