

85°24'0.00"E

86°6'0.00"E

86°48'0.00"E

87°30'0.00"E

SUPAUL



26°36'0.00"N

25°54'0.00"N

25°12'0.00"N

26°36'0.00"N

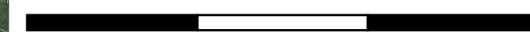
25°54'0.00"N

25°12'0.00"N

Legend

-  Supul City Boundary
-  Supaul District Boundary

0 25 50 75 km

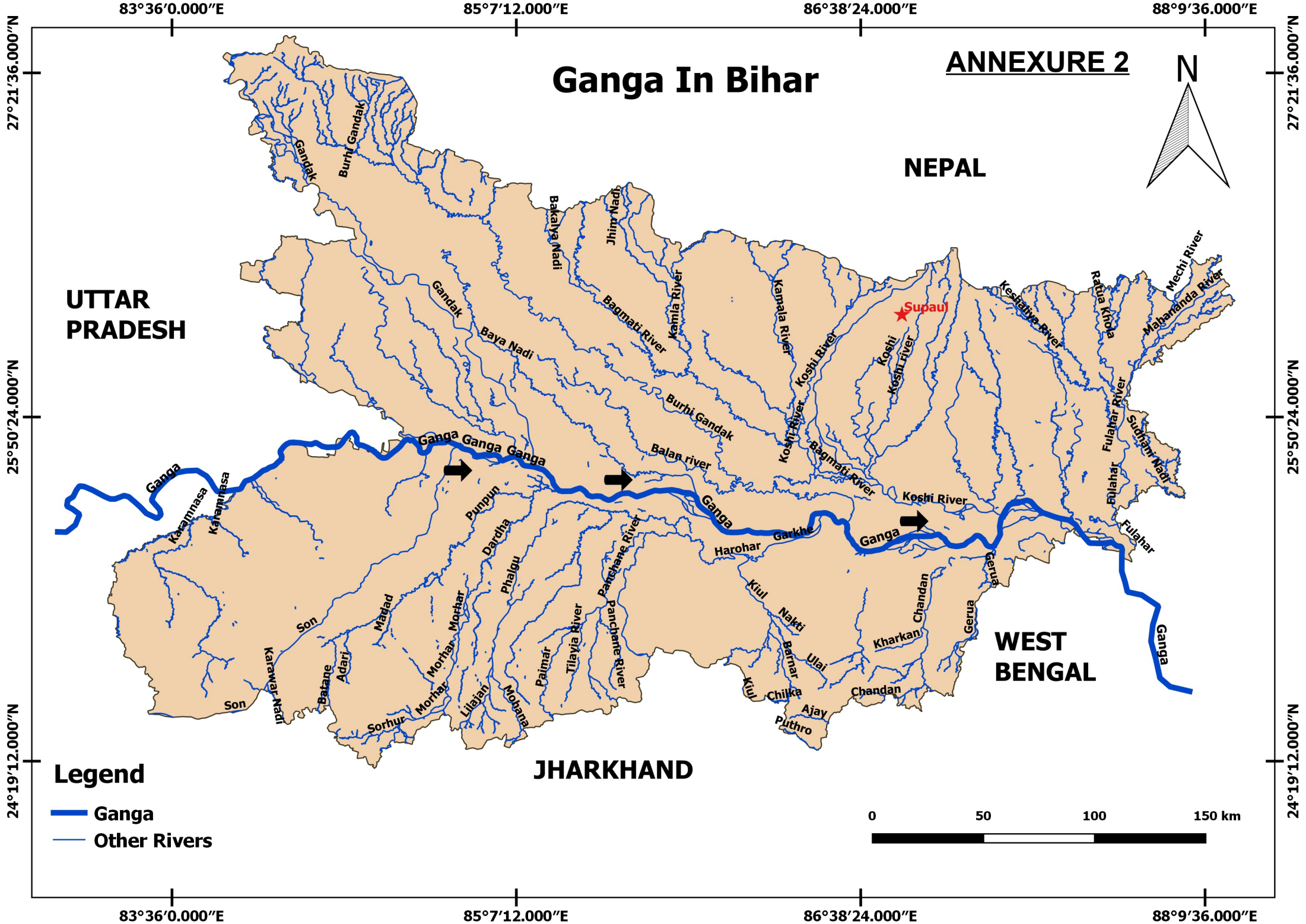


Ganga River

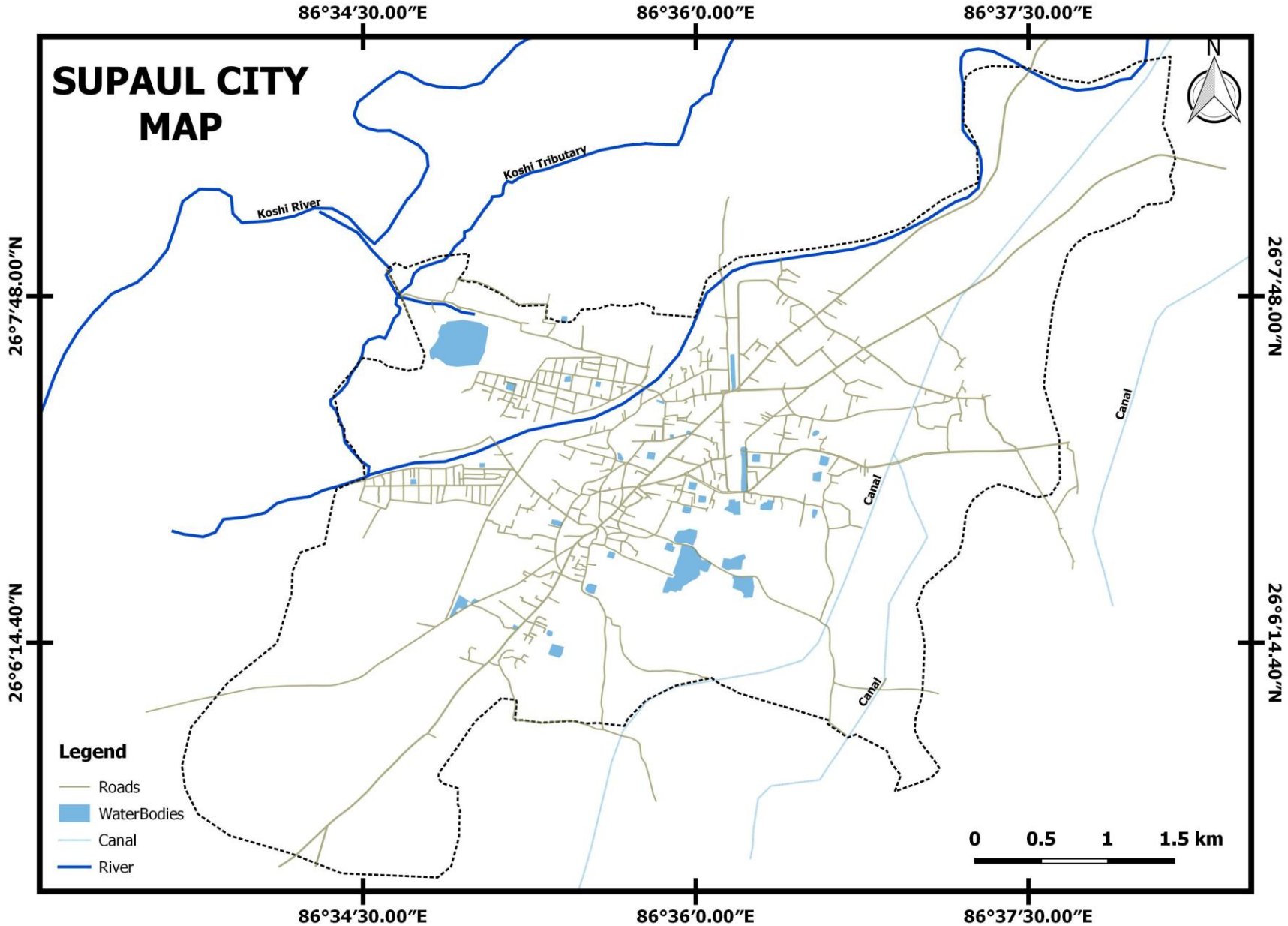
Ganga River

Koshi River

Koshi River



ANNEXURE 3



CONTOUR MAP

ANNEXURE 4

26°7'48.00"N

26°6'14.40"N

86°34'30.00"E

86°36'0.00"E

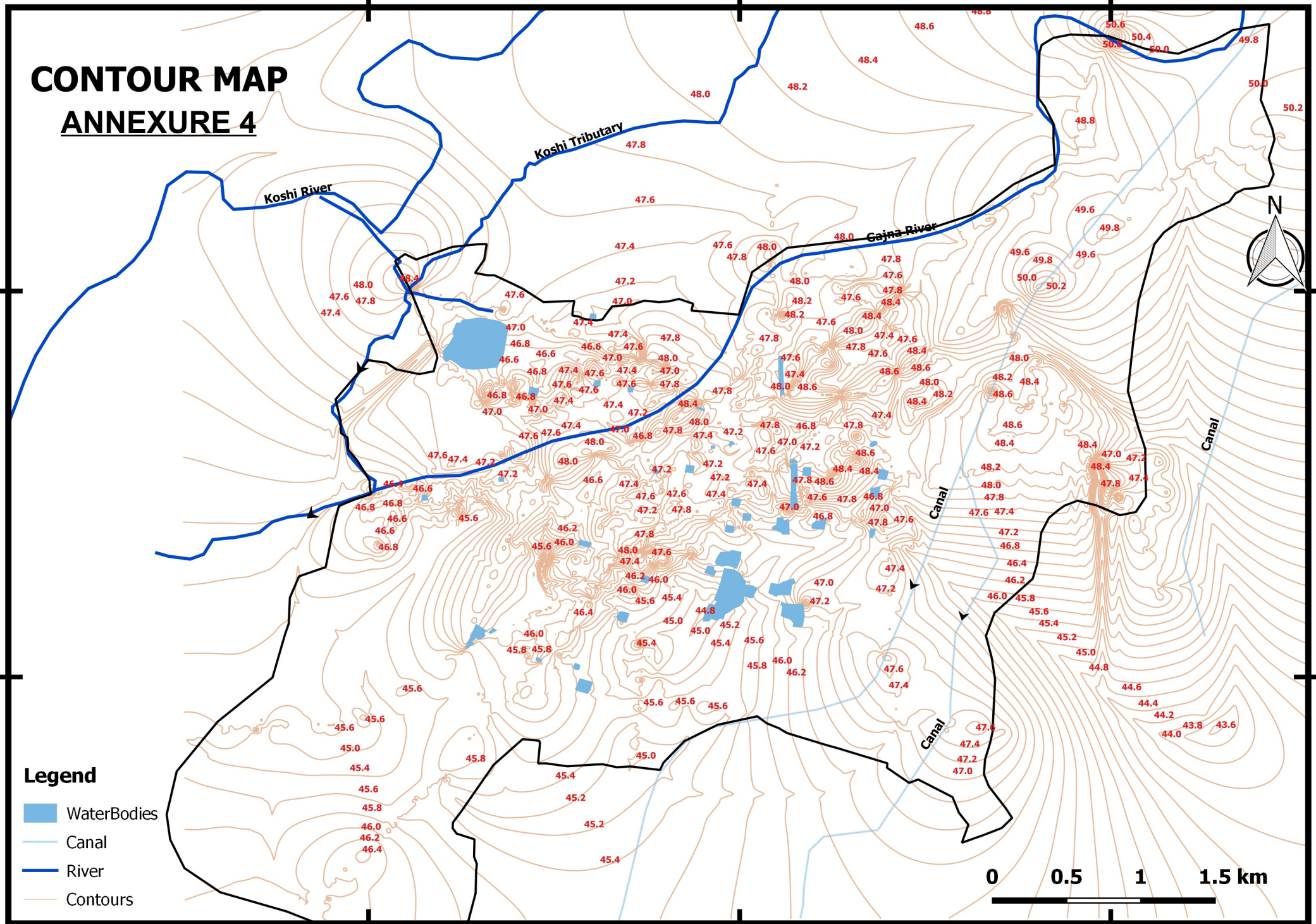
86°37'30.00"E

26°7'48.00"N

26°6'14.40"N

Legend

- WaterBodies
- Canal
- River
- Contours

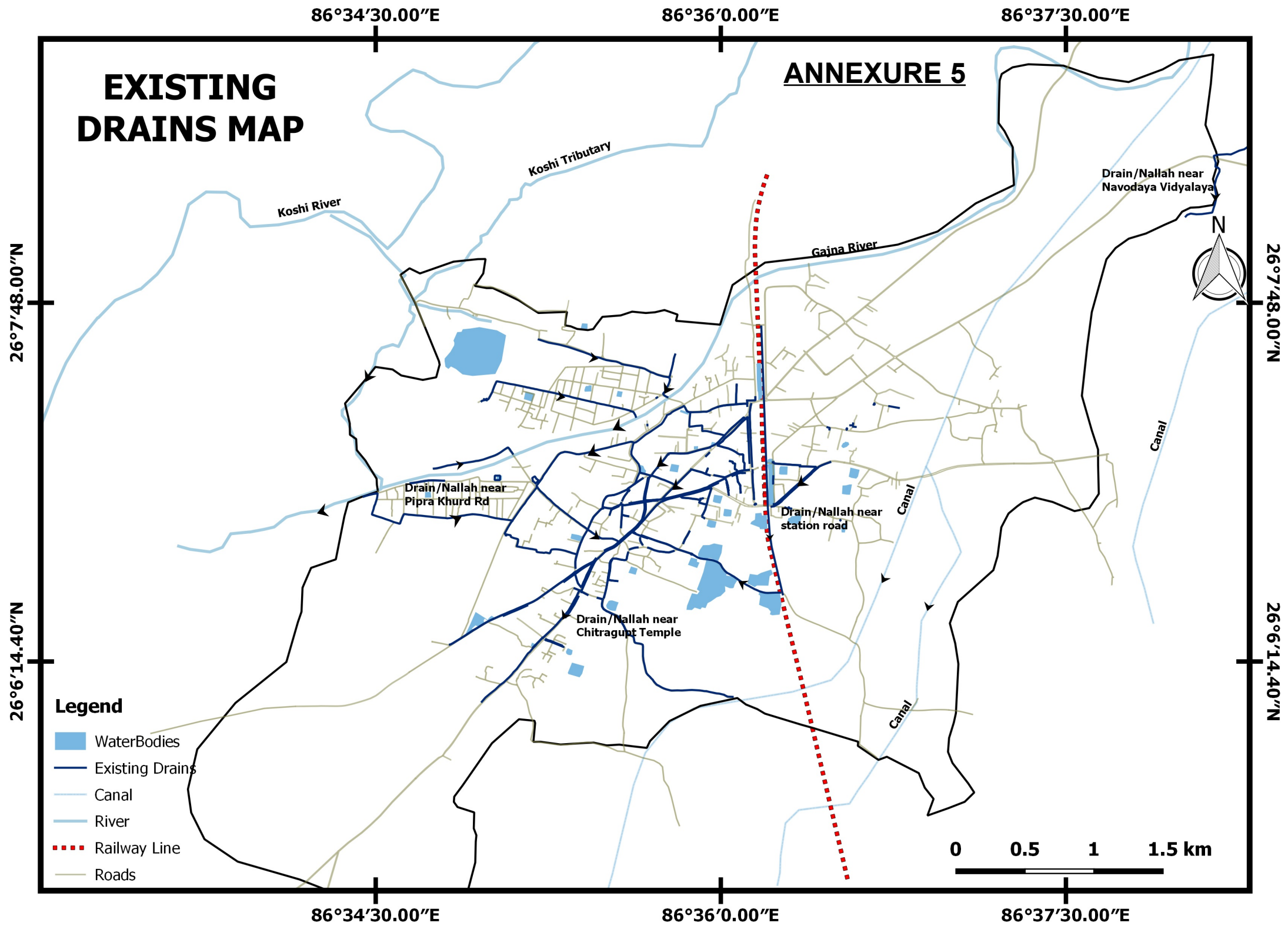


86°34'30.00"E

86°36'0.00"E

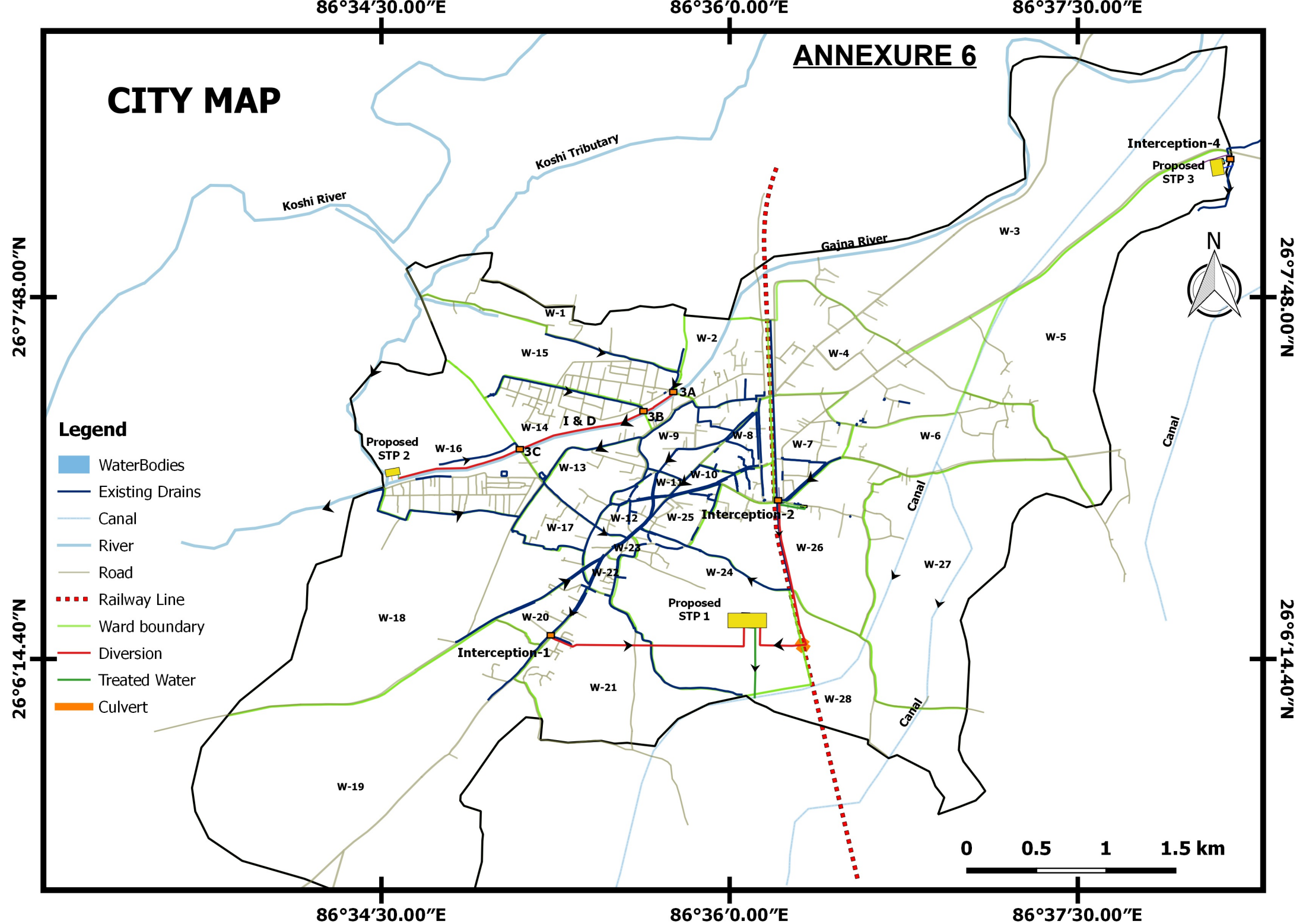
86°37'30.00"E

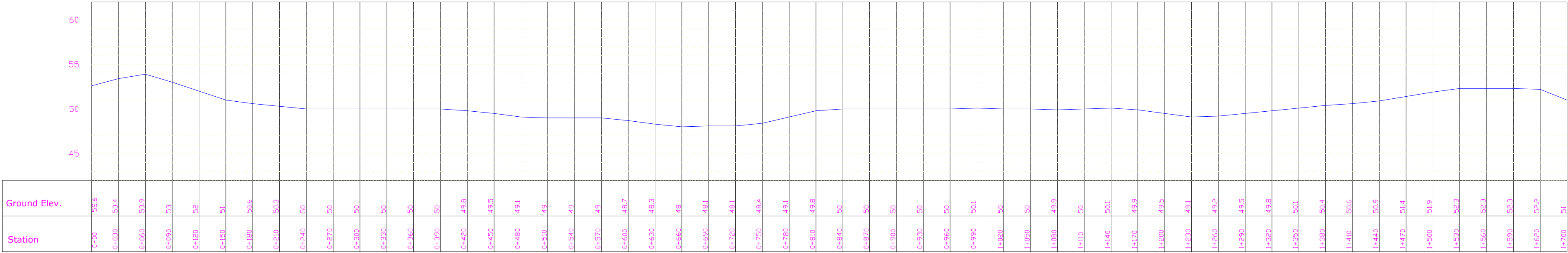
0 0.5 1 1.5 km



CITY MAP

ANNEXURE 6





L section for Drain from interception 1 to STP 1

Max elev.	53.9 m
Min elev.	48 m
Difference	5.9 m



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Interception 1 to STP 1

Drain length : 1700m

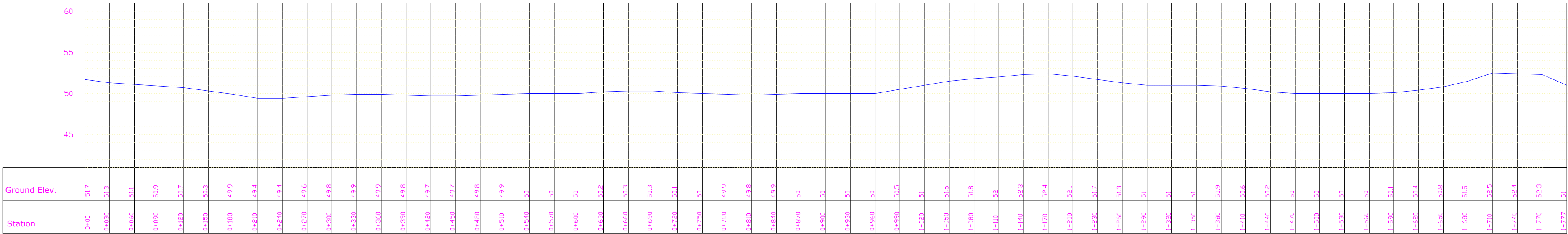
Chainage : 30m

Project : Supaul

ALL DIMENSION ARE IN METER

N

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Max elev.	52.5 m
Min elev.	49.4 m
Difference	3.1 m

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Interception 2 to STP 1

Drain length : 1777m

Chainage : 30m

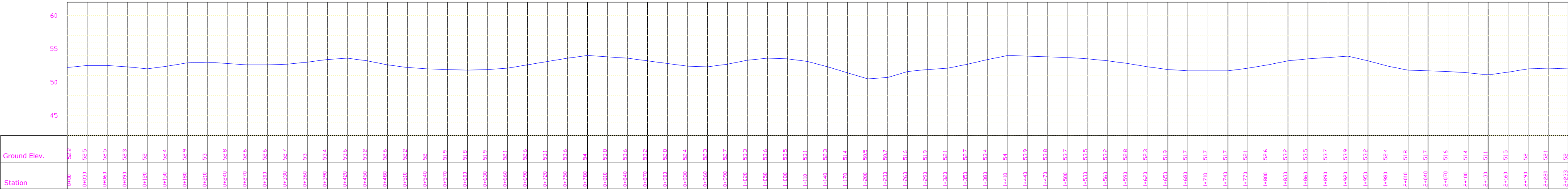
Project : Supaul

ALL DIMENSION ARE IN METER

N

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L section for Drain from interception 2 to STP 1



L section for Drain from interception 3 to STP 2

Max elev.	54 m
Min elev.	50.5 m
Difference	3.5 m

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Interception 3 to STP 2

Drain length : 2233m

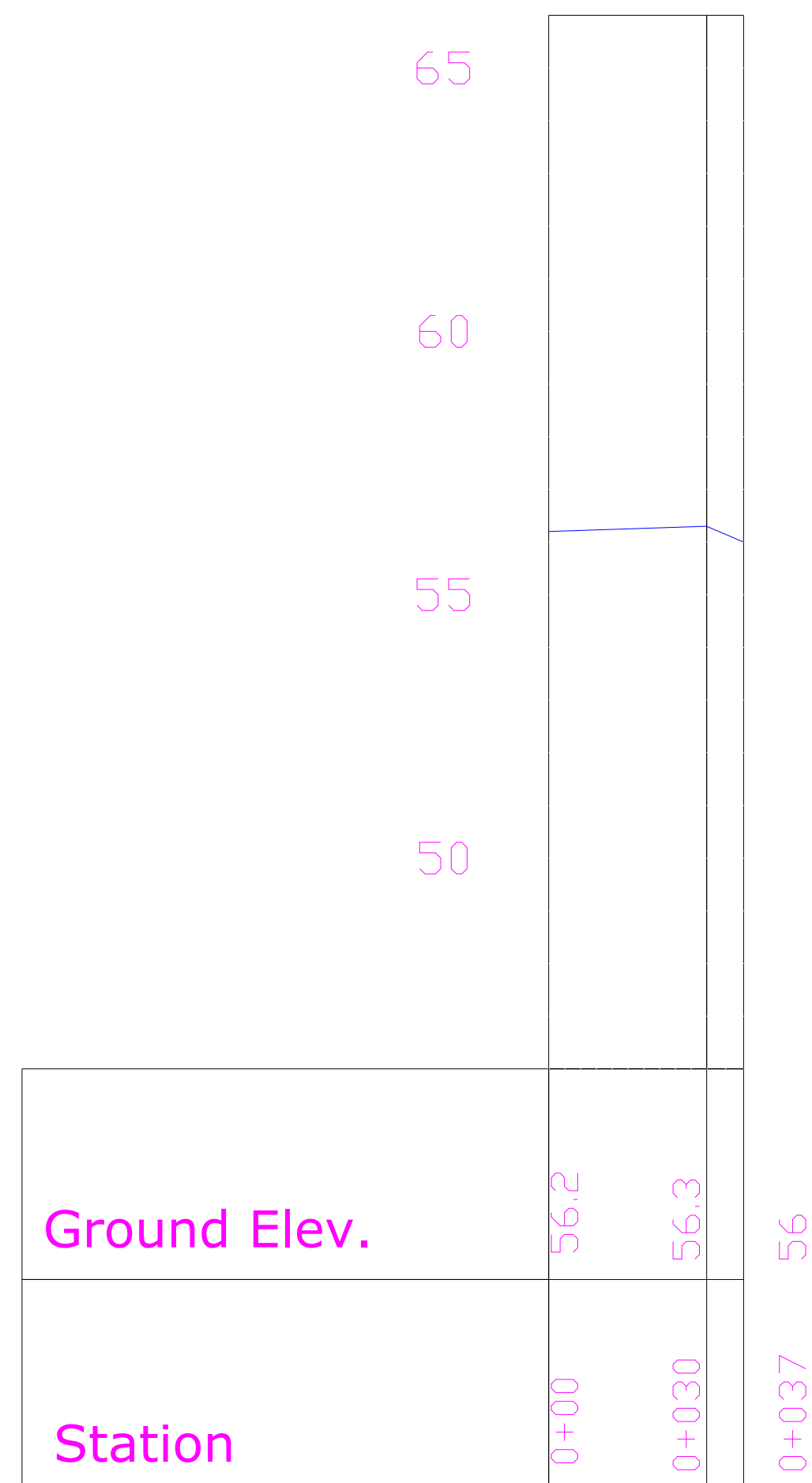
Chainage : 30m

Project : Supaul

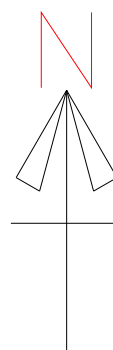
ALL DIMENSION ARE IN METER

N

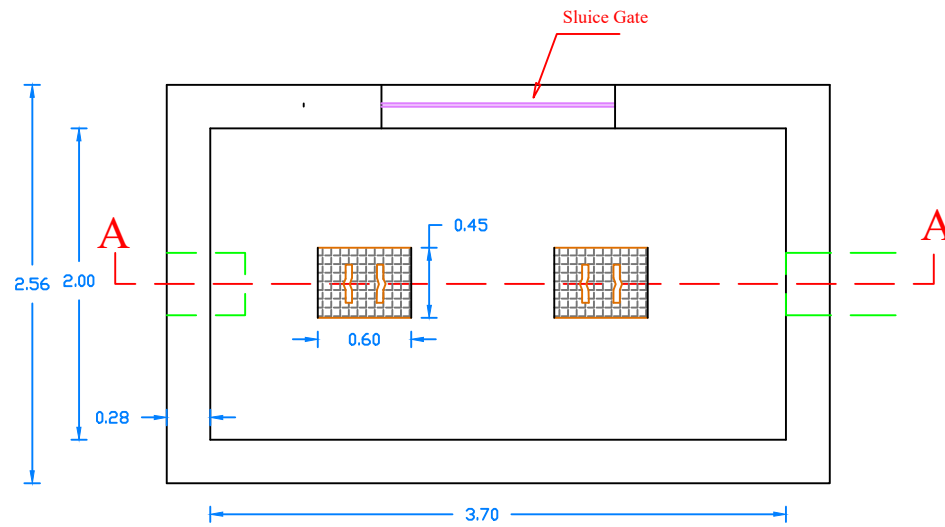
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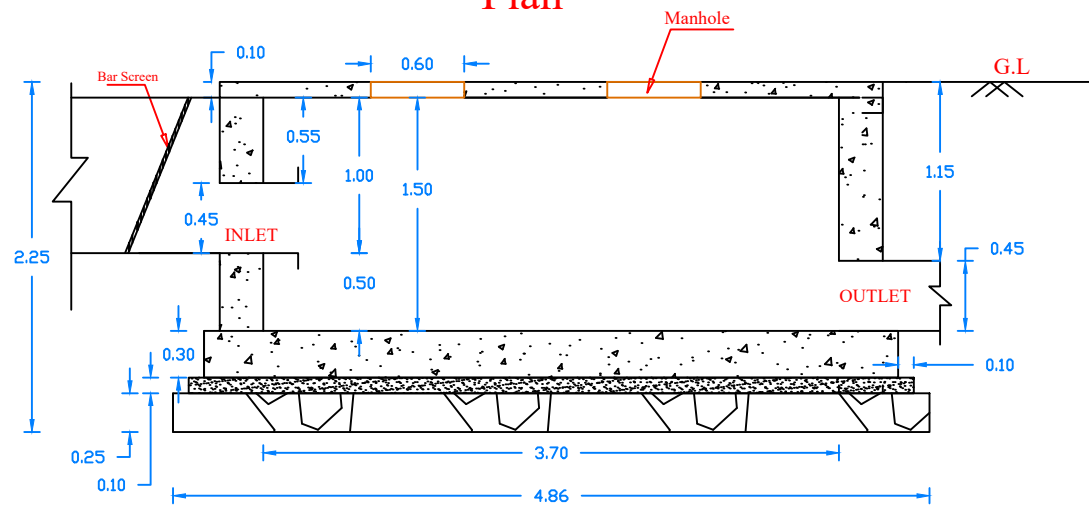
Max elev.	56.3 m
Min elev.	56 m
Difference	0.3 m

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Interception 4 to STP 3		
Drain length : 37m		
Chainage : 30m		
Project : Supaul		
ALL DIMENSION ARE IN METER		

L section for Drain from interception 4 to STP 3



Plan



Section A-A
Interception Pit



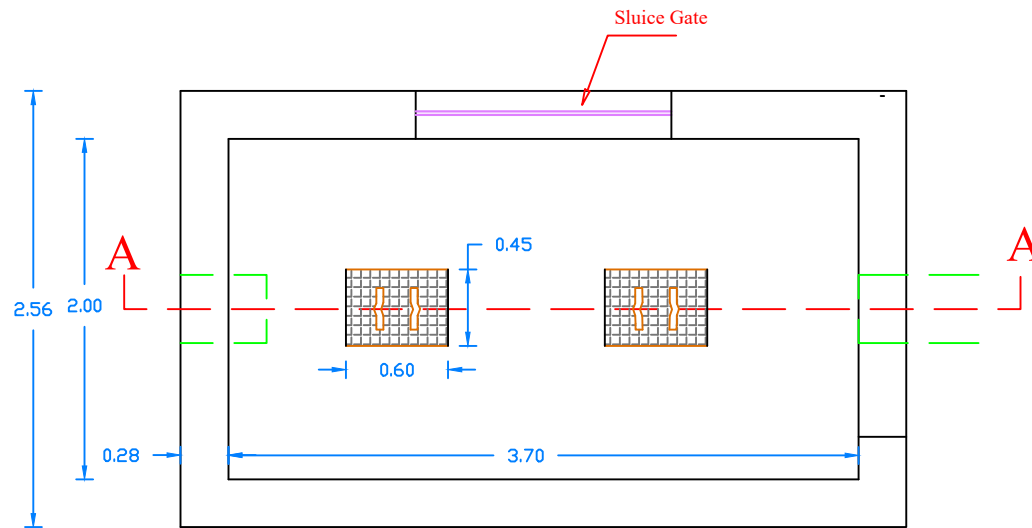
CSIR - NEERI

INTERCEPTION PIT - 1

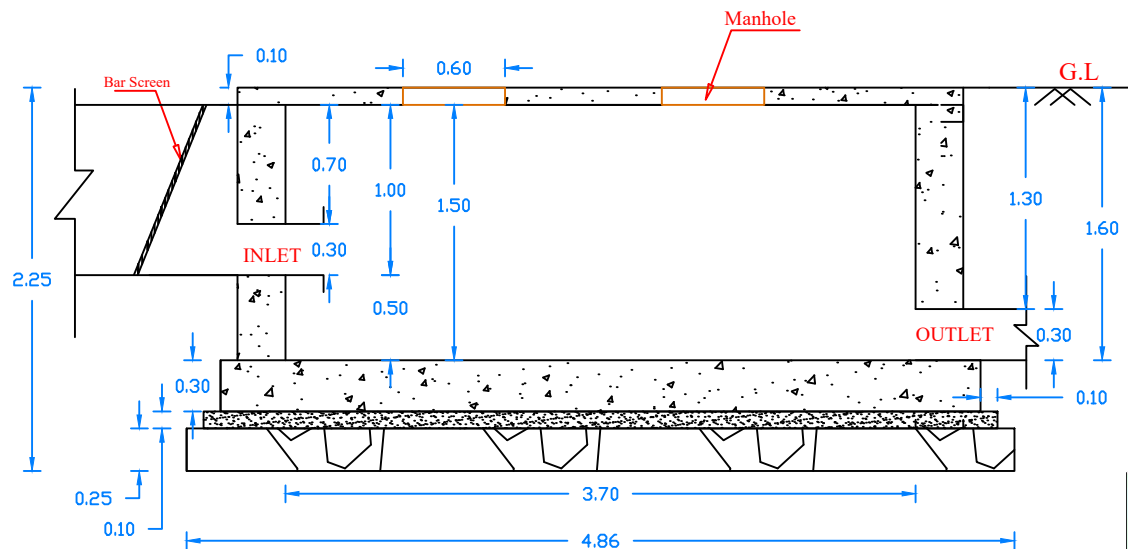
STP : 1

PROJECT : SUPAUL

ALL DIMENSIONS ARE IN METER



Plan



Section A-A

Interception Pit



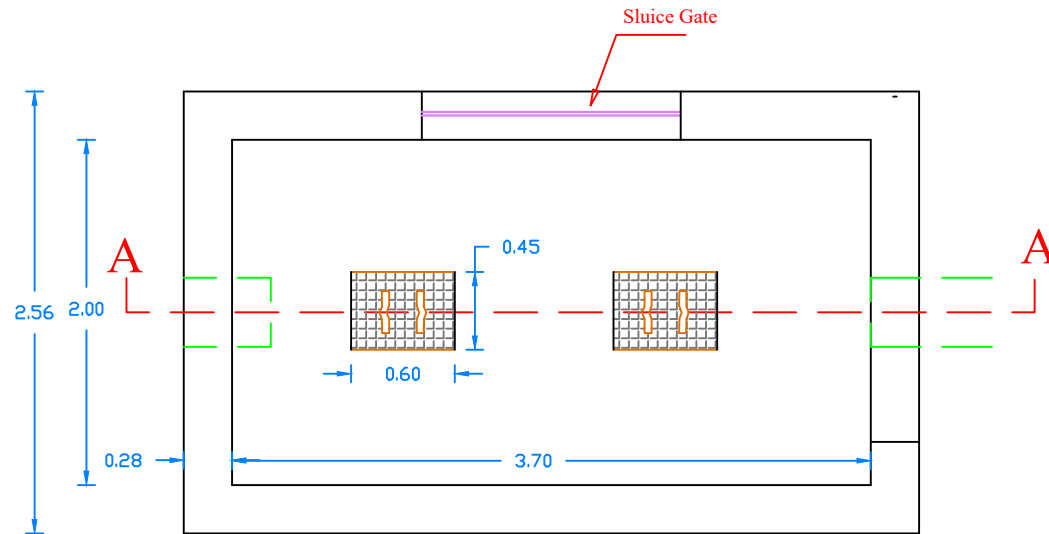
CSIR - NEERI

INTERCEPTION PIT - 2

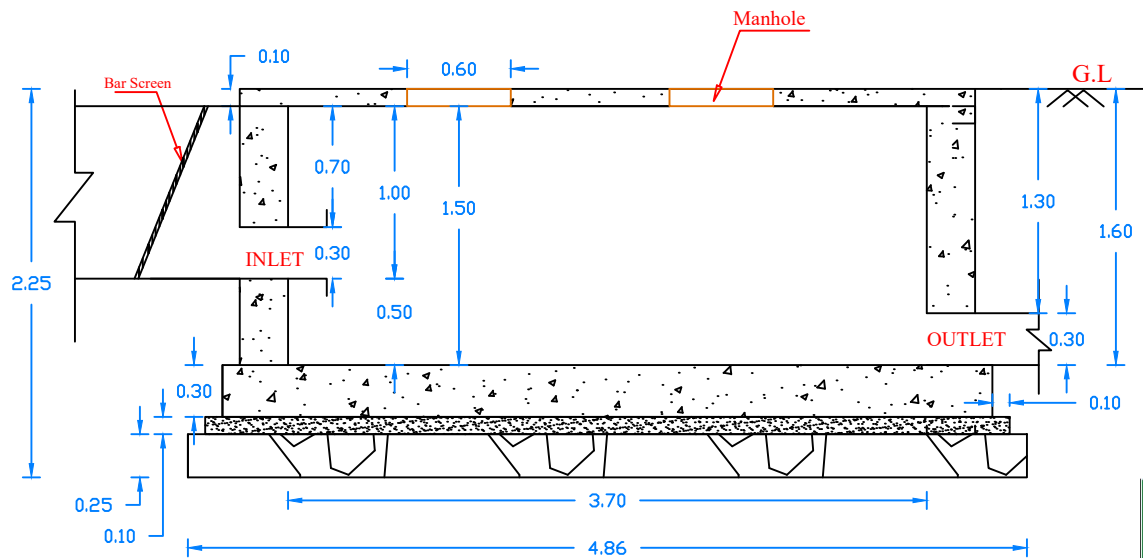
STP : 1

PROJECT : SUPAUL

ALL DIMENSIONS ARE IN METER



Plan



Section A-A
Interception Pit



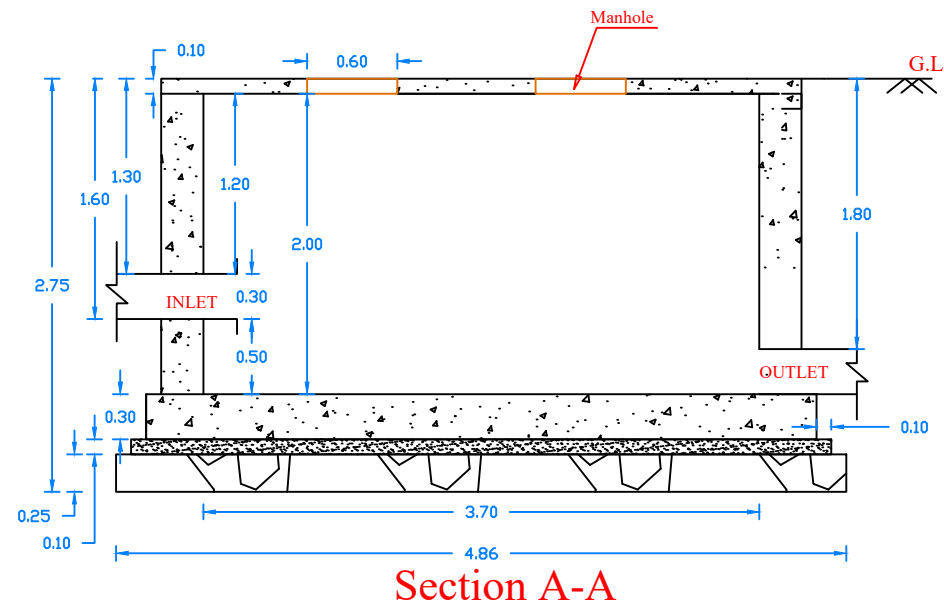
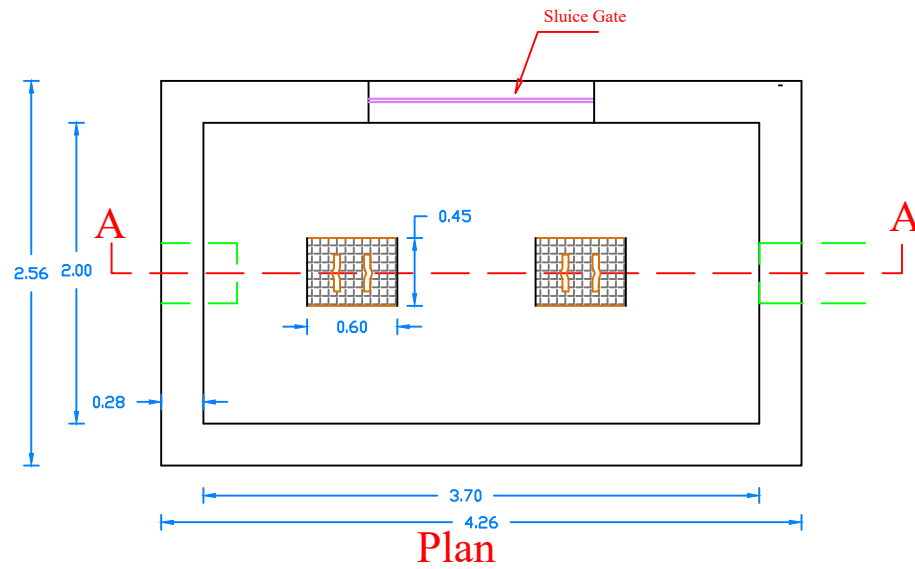
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INTERCEPTION PIT - 3A

STP : 2

PROJECT : SUPAUL

ALL DIMENSIONS ARE IN METER



Interception Pit



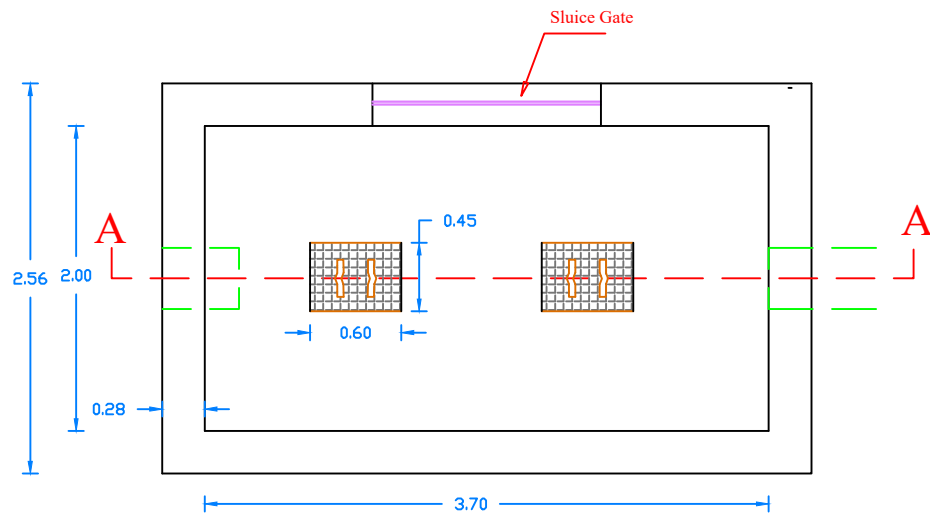
CSIR - NEERI

INTERCEPTION PIT - 3B

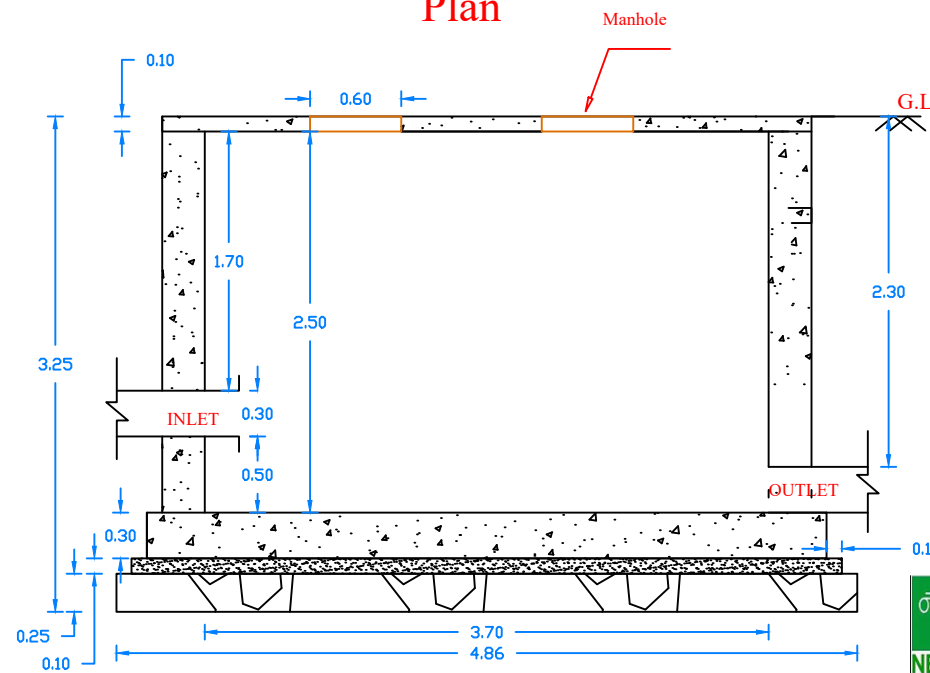
STP : 2

PROJECT : SUPAUL

ALL DIMENSIONS ARE IN METER



Plan



Section A-A
Interception Pit



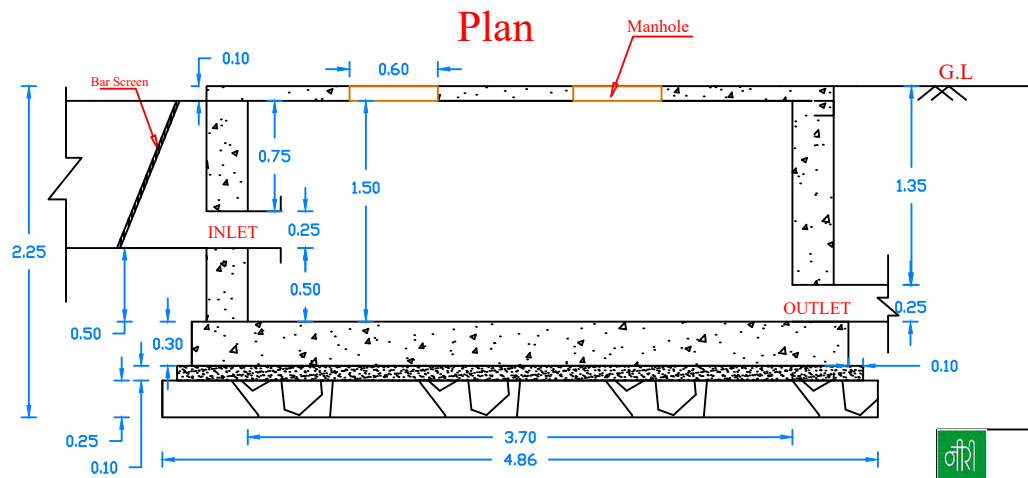
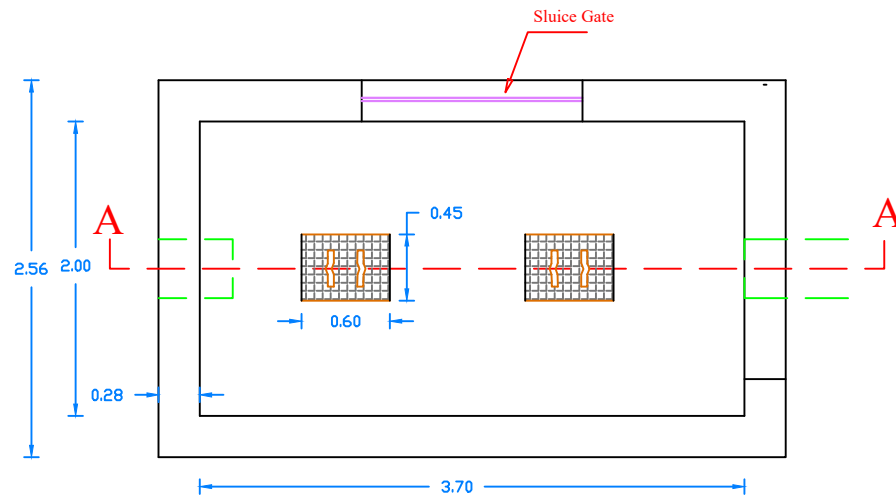
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INTERCEPTION PIT - 3C

STP : 2

PROJECT : SUPAUL

ALL DIMENSIONS ARE IN METER



Section A-A
Interception Pit



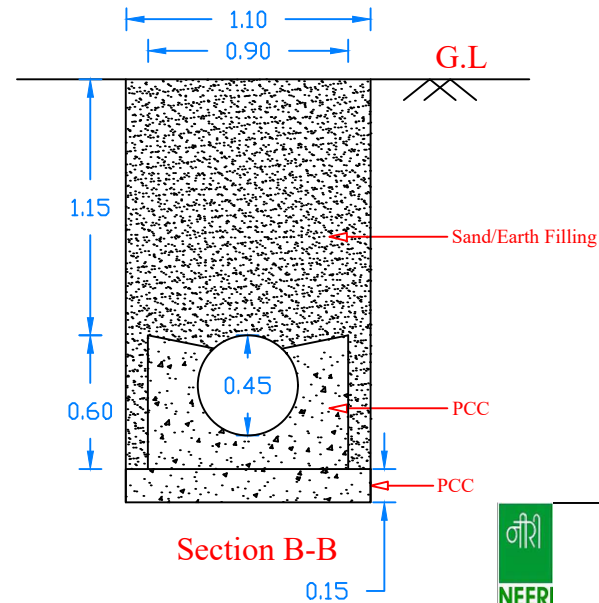
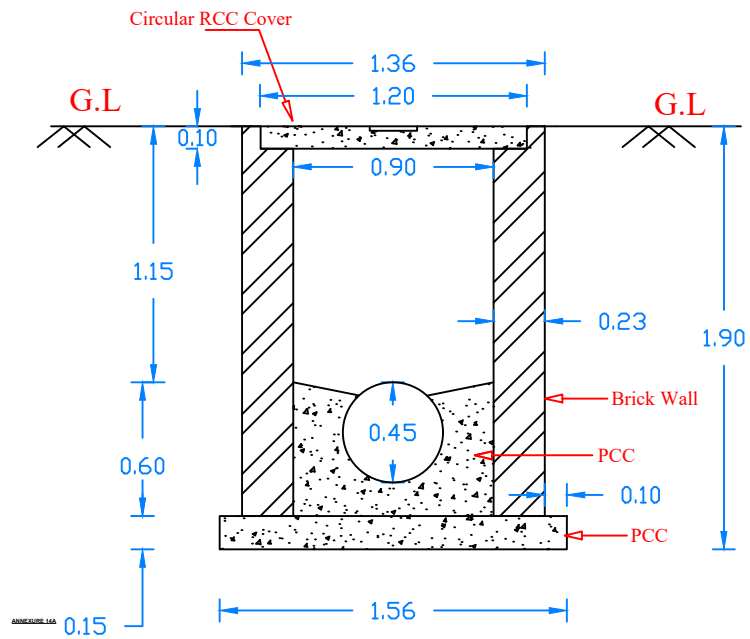
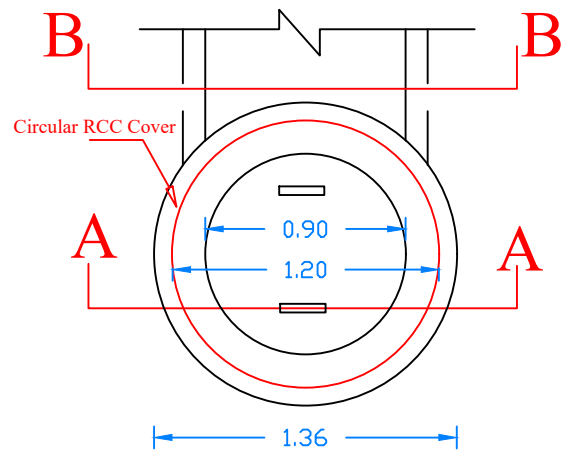
CSIR - NEERI

INTERCEPTION PIT

STP : 3

PROJECT : SUPAUL

ALL DIMENSIONS ARE IN METER



Diversion Sewer



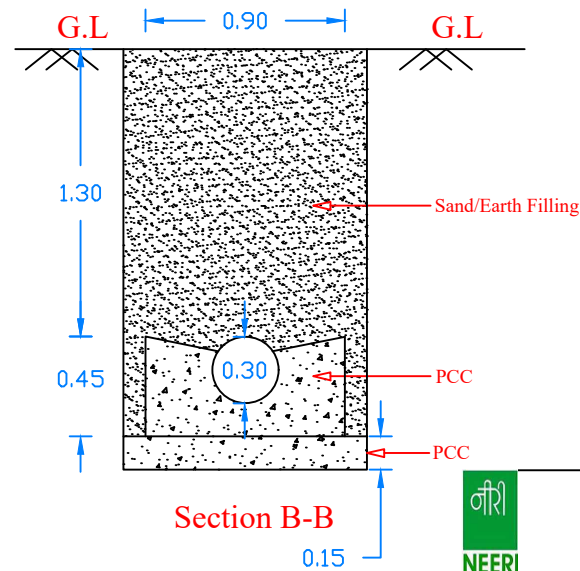
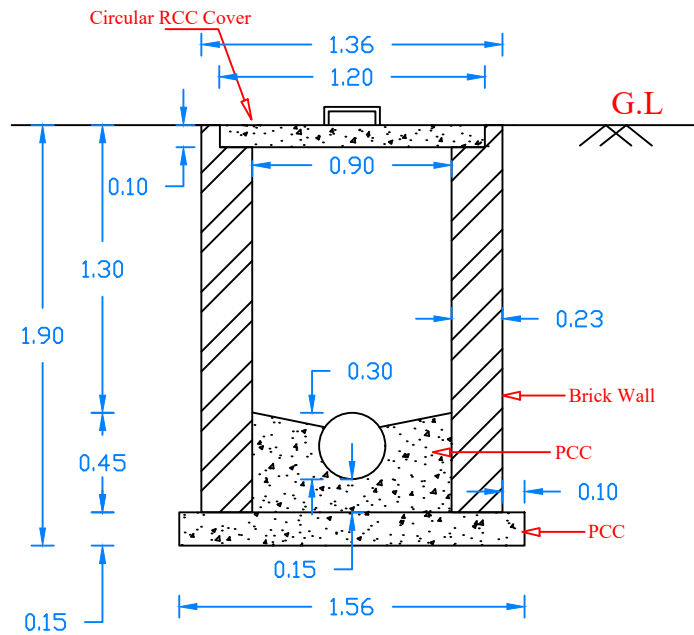
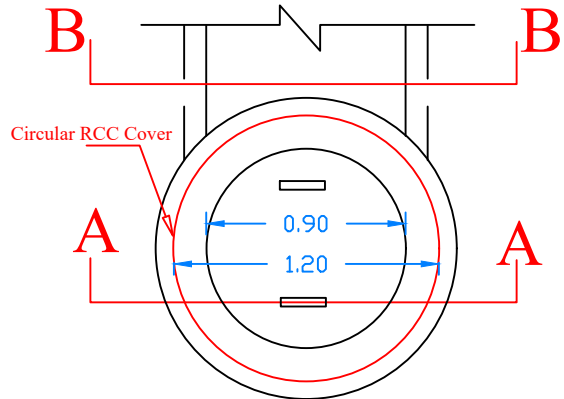
CSIR - NEERI

DIVERSION SEWER - 1700m

STP : 1

PROJECT : SUPAUL

ALL DIMENSIONS ARE IN METER



Diversion Sewer



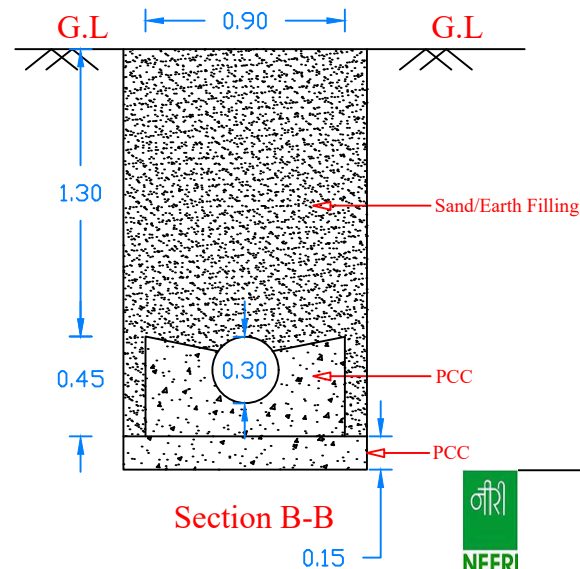
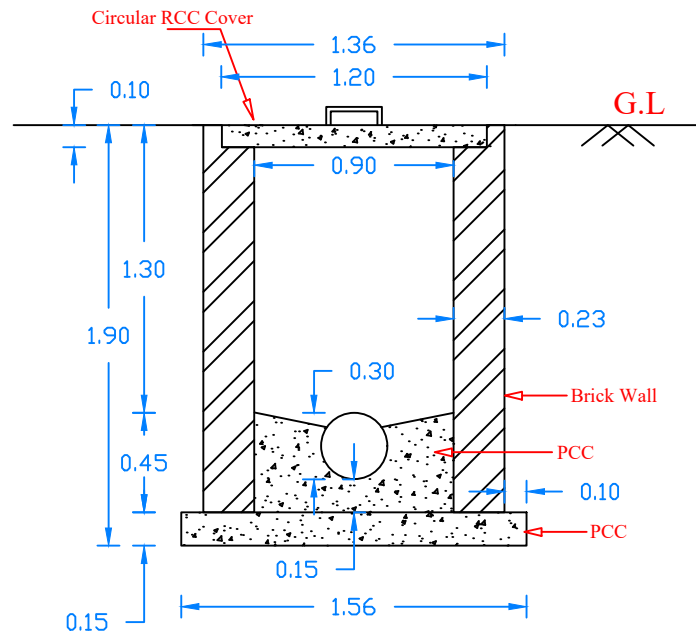
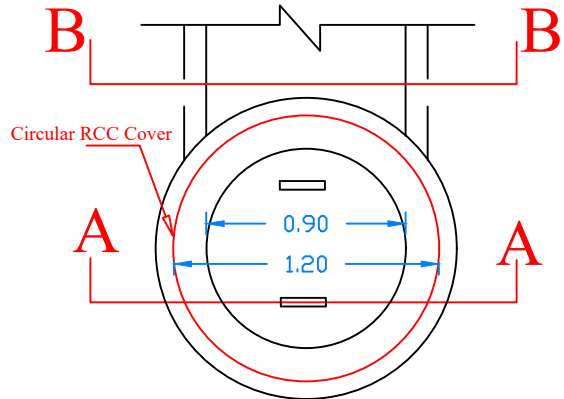
CSIR - NEERI

DIVERSION SEWER - 1777m

STP : 1

PROJECT : SUPAUL

ALL DIMENSIONS ARE IN METER



Diversion Sewer



CSIR - NEERI

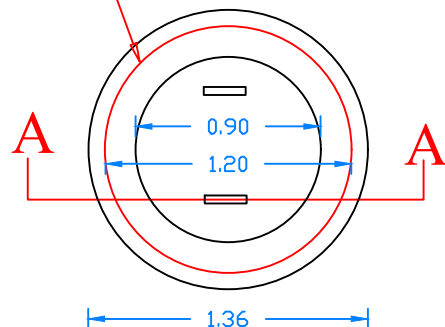
DIVERSION SEWER - 277m(3A to 3B)

STP : 2

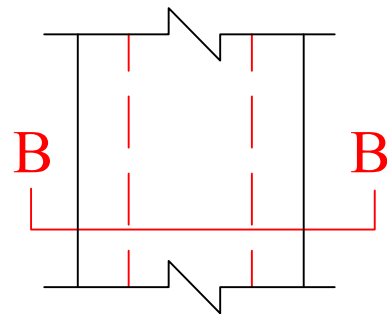
PROJECT : SUPAUL

ALL DIMENSIONS ARE IN METER

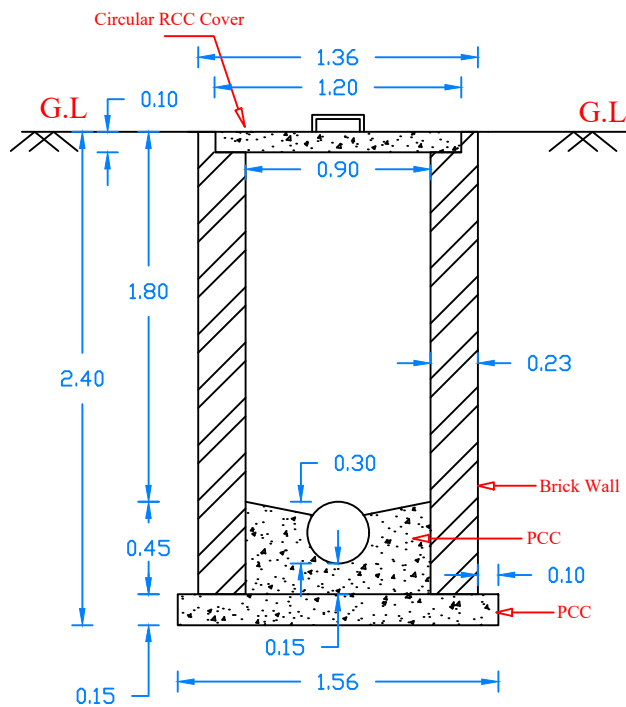
Circular RCC Cover



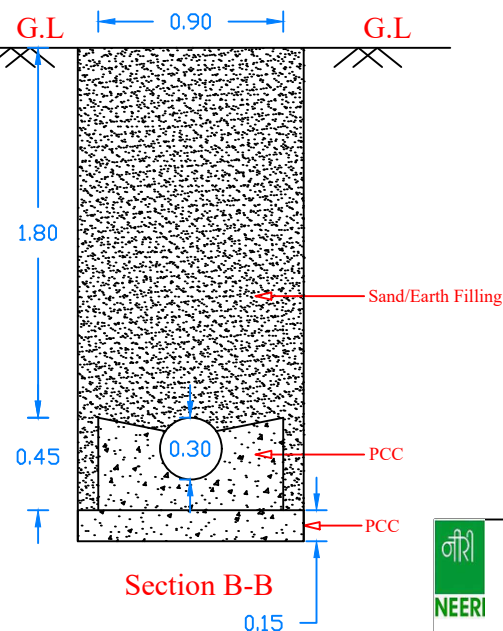
Manhole Plan



Plan



Section A-A



Section B-B

Diversion Sewer



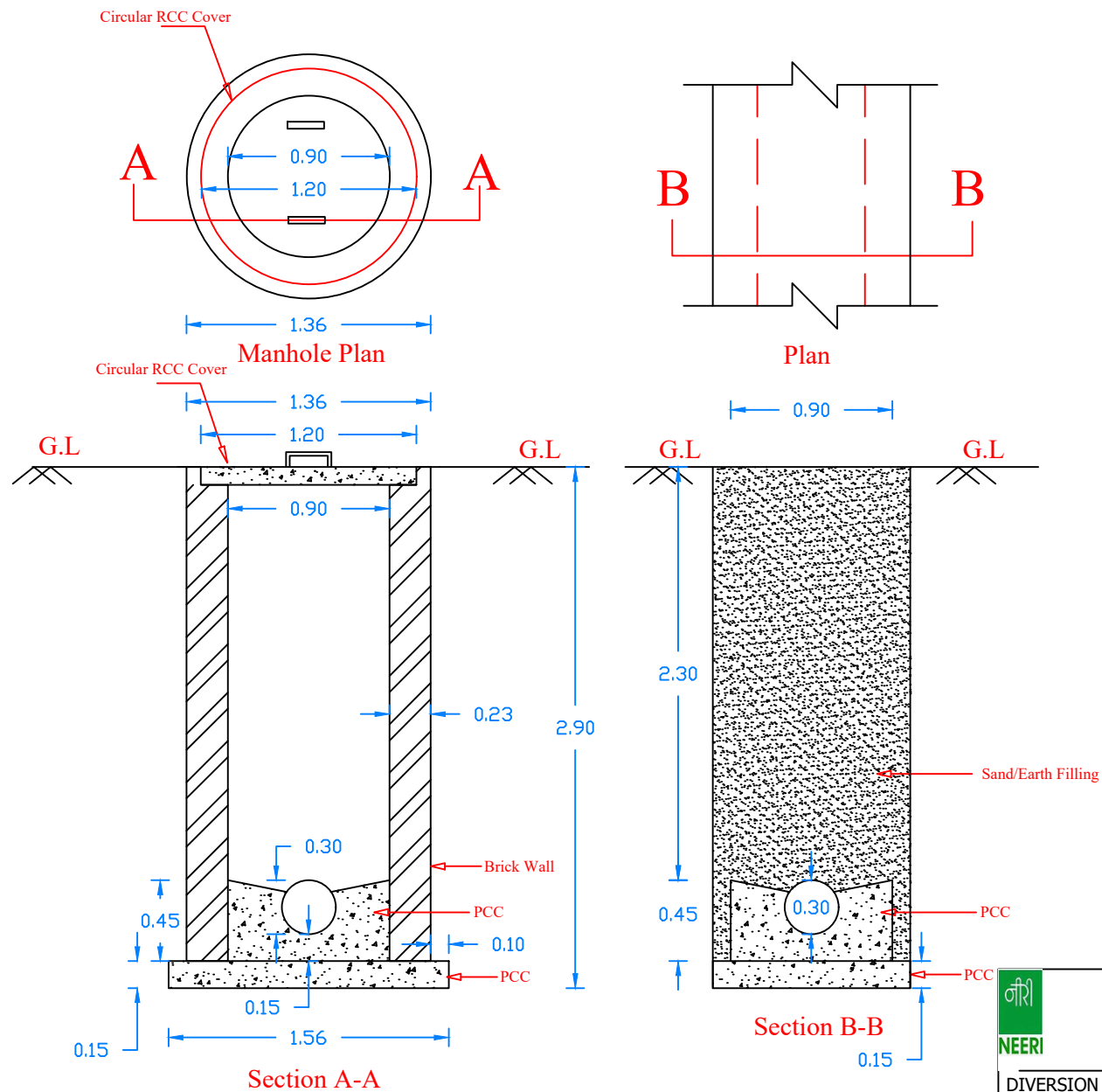
CSIR - NEERI

DIVERSION SEWER - 956M(3B-3C)

STP : 2

PROJECT : SUPAUL

ALL DIMENSIONS ARE IN METER



Diversion Sewer



CSIR - NEERI

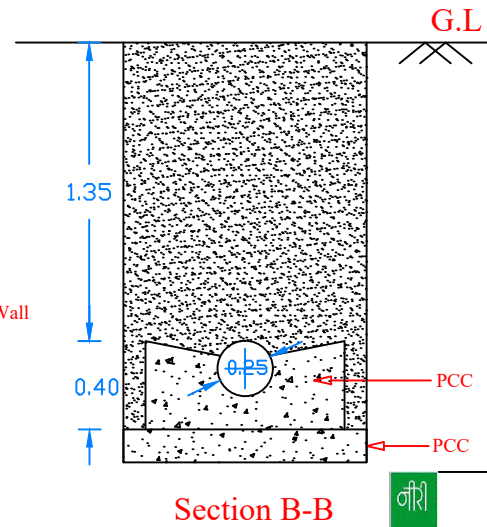
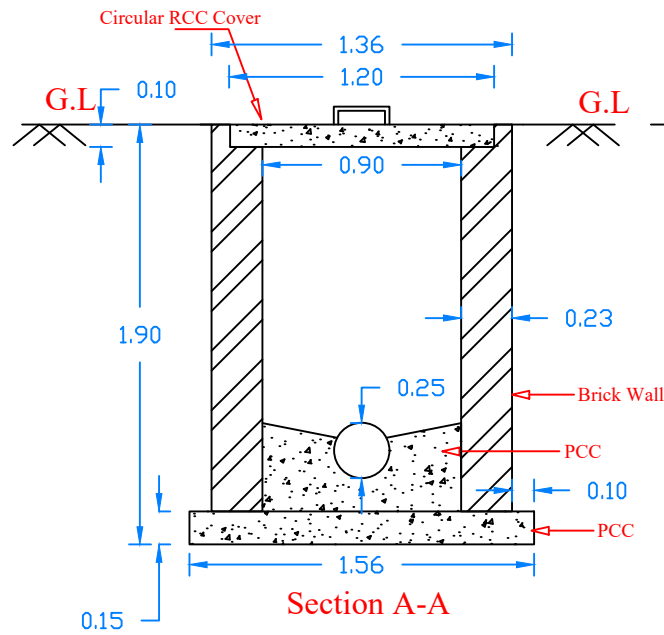
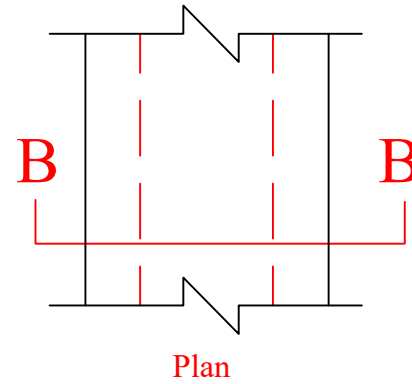
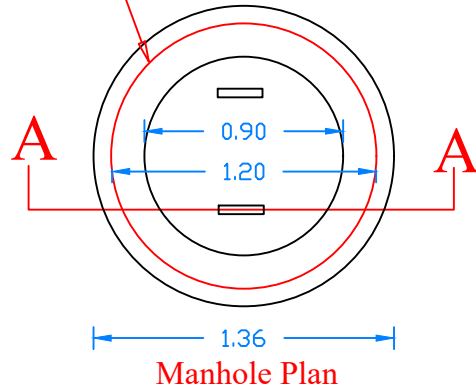
DIVERSION SEWER - 1000M(3C-STP2)

STP : 2

PROJECT : SUPAUL

ALL DIMENSIONS ARE IN METER

Circular RCC Cover



Diversion Sewer



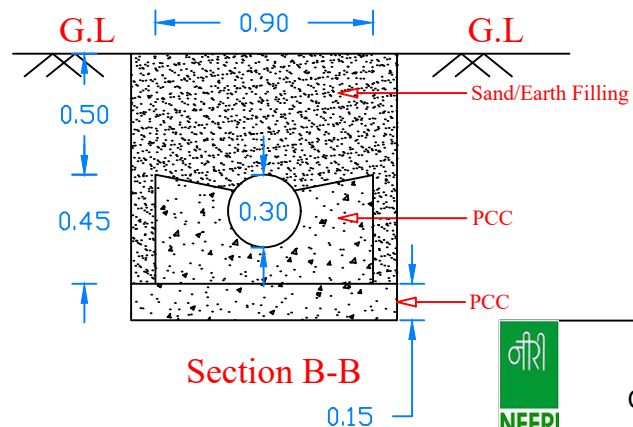
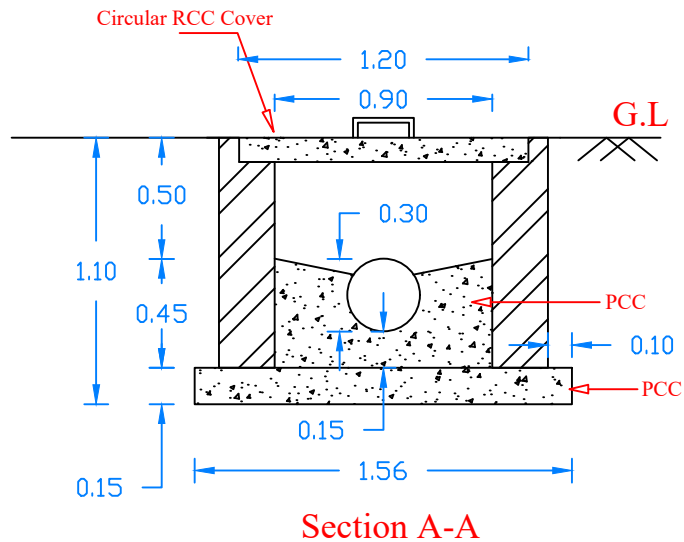
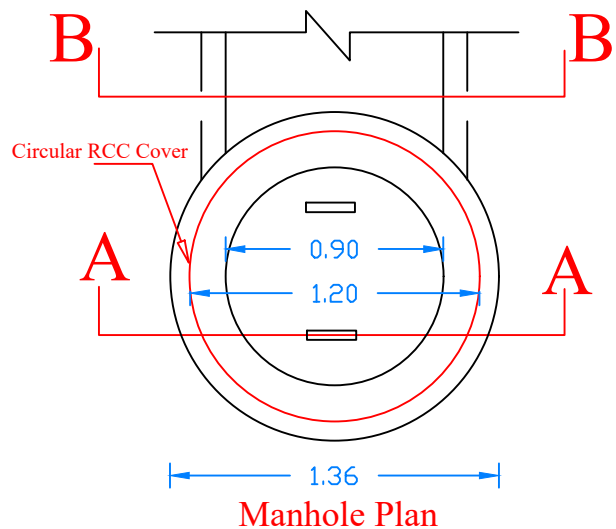
CSIR- NEERI

DIVERSION SEWER:37 m

ZONE : 4

PROJECT : SUPAUL

ALL DIMENSIONS ARE IN METER



Diversion Sewer



CSIR - NEERI

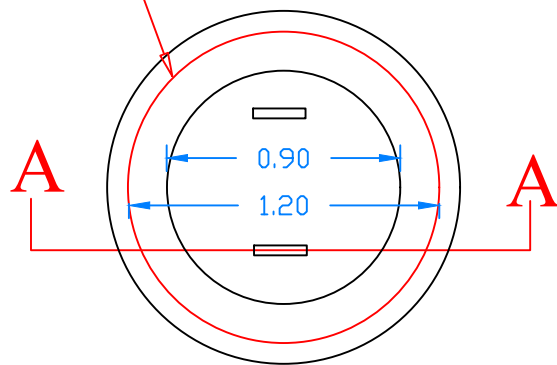
DIVERSION SEWER - 277m

STP : 2

PROJECT : SUPAUL

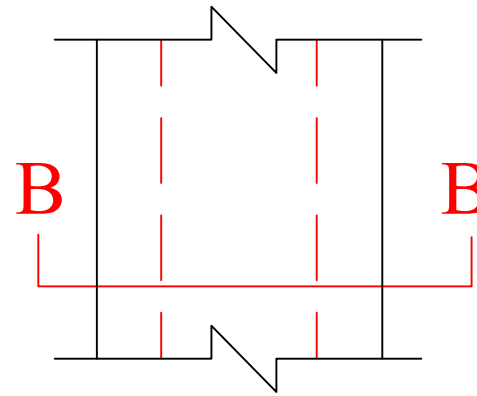
ALL DIMENSIONS ARE IN METER

Circular RCC Cover



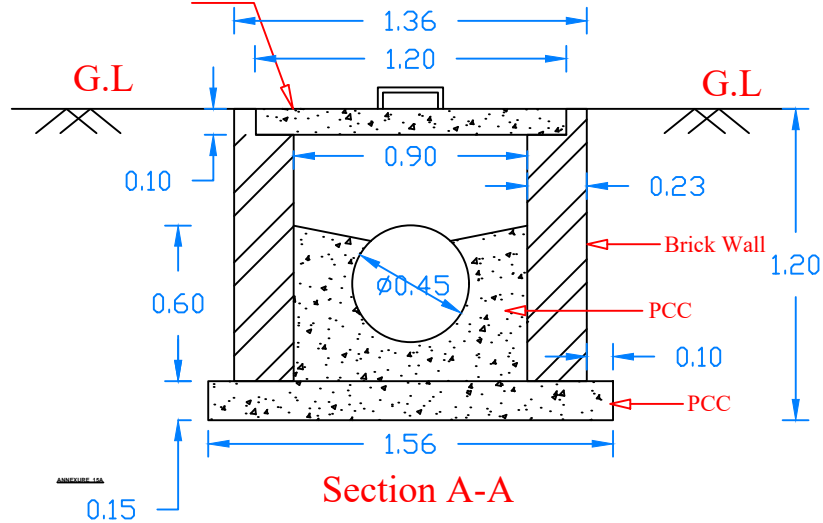
1.36

Manhole Plan

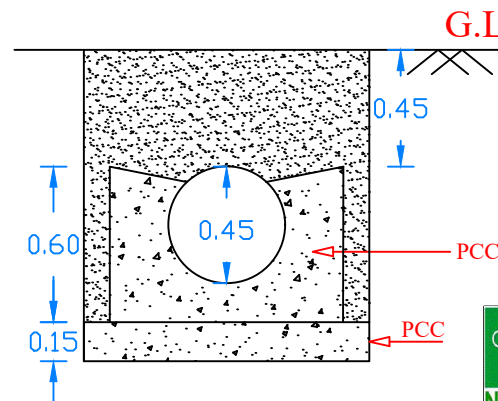


Plan

Circular RCC Cover



Section A-A



Section A-A

Treated Water Discharge Line



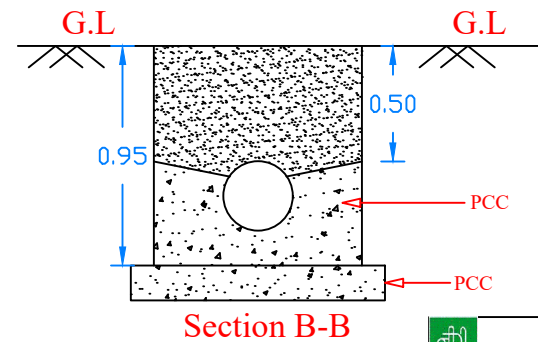
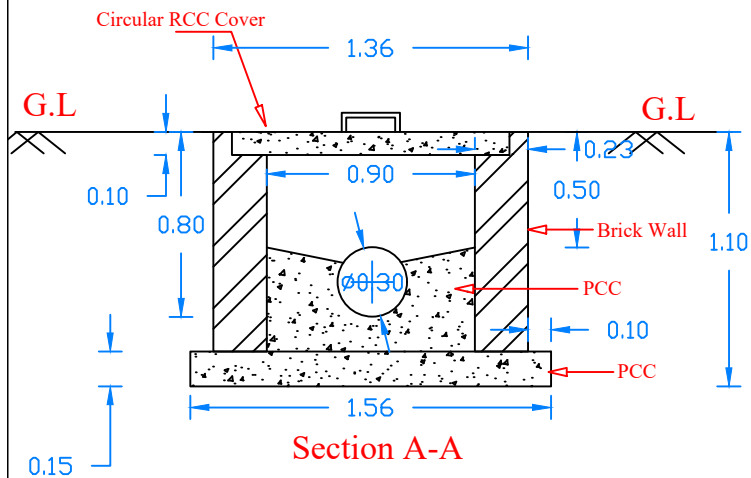
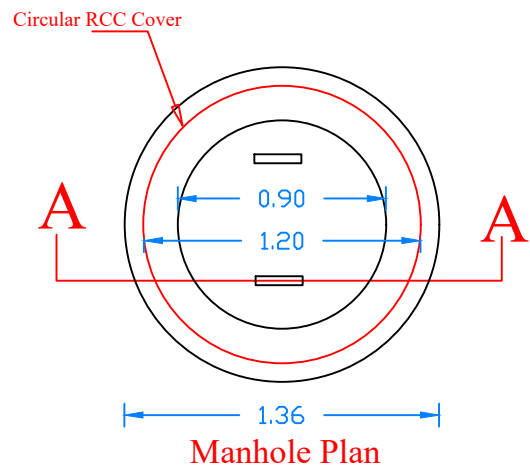
CSIR- NEERI

TREATED WATER DISCHARGE - 680M

STP : 1

PROJECT : SUPAUL

ALL DIMENSIONS ARE IN METER



Treated Water Discharge Line



CSIR- NEERI

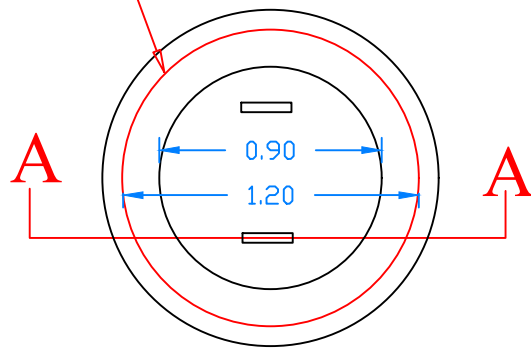
TREATED WATER DISCHARGE LINE - 100M

STP : 2

PROJECT : SUPAUL

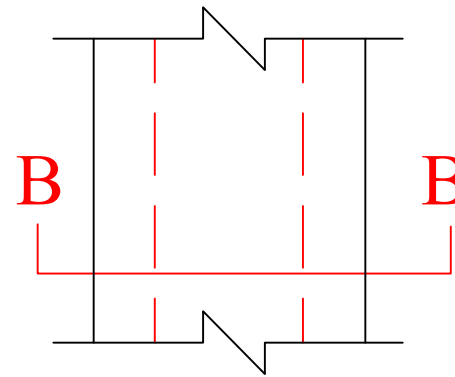
ALL DIMENSIONS ARE IN METER

Circular RCC Cover



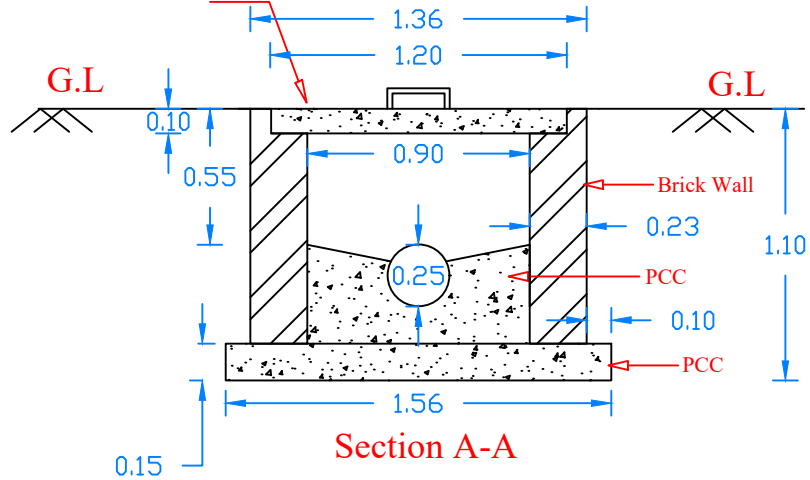
1.36

Manhole Plan

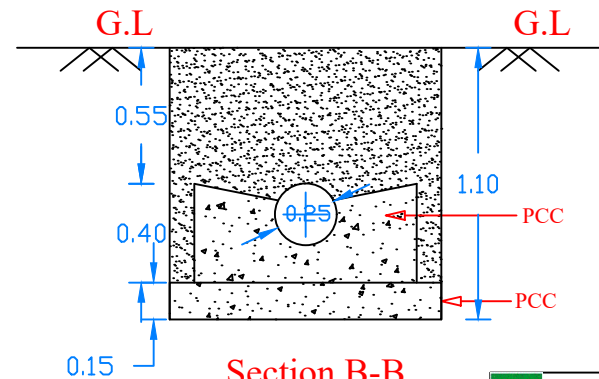


Plan

Circular RCC Cover



Section A-A



Section B-B

Treated Water Discharge Line



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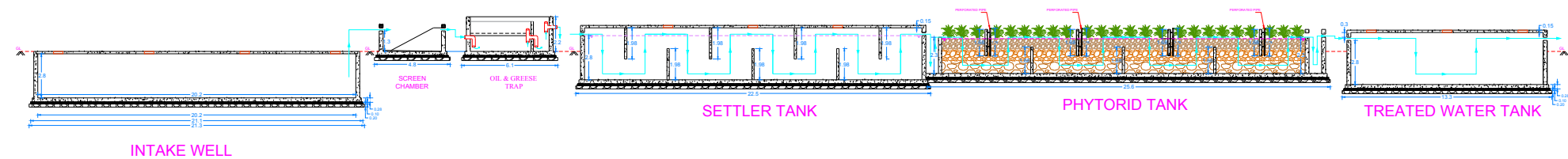
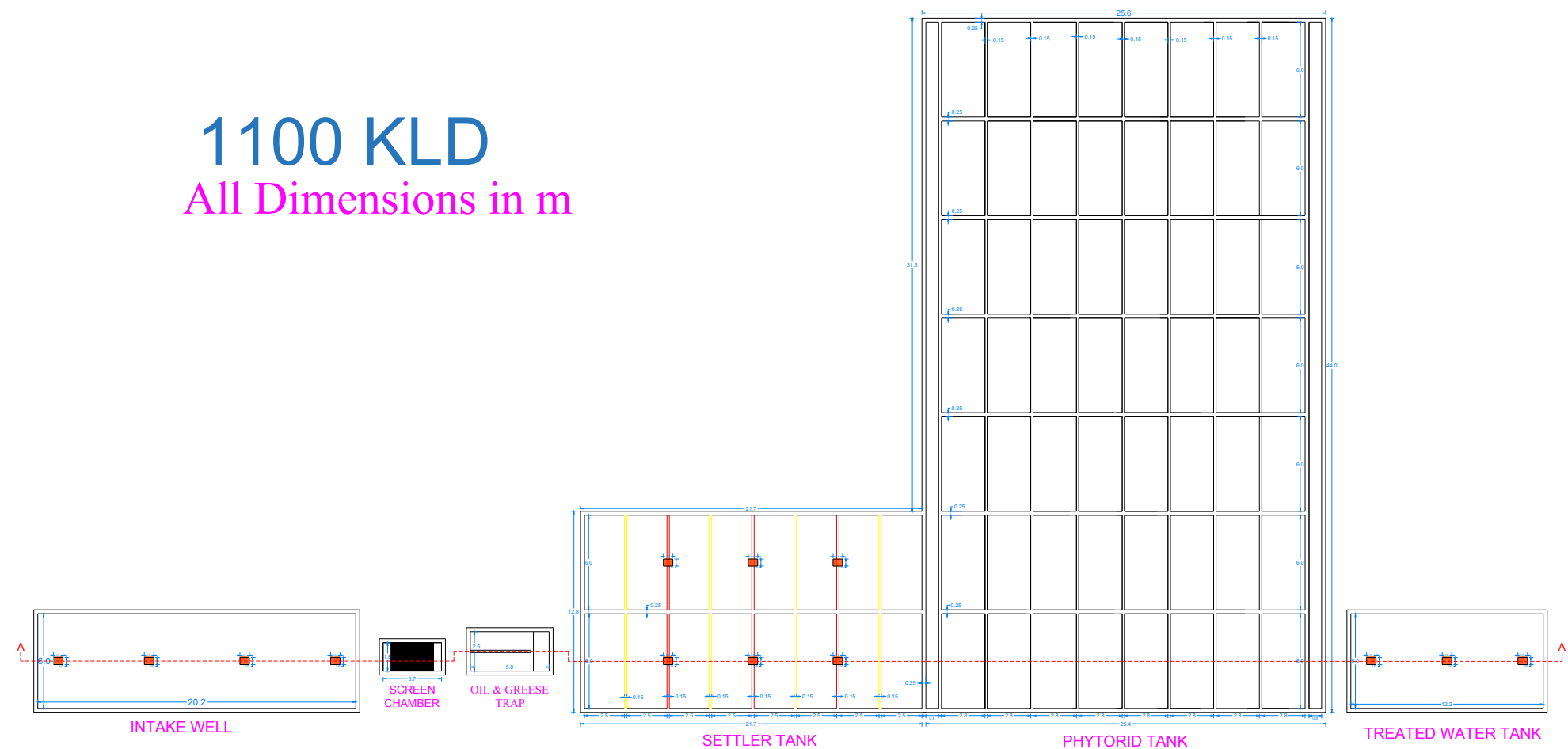
TREATED WATER DISCHARGE LINE - 120M

STP : 3

PROJECT : SUPAUL

ALL DIMENSIONS ARE IN METER

1100 KLD
All Dimensions in m



SECTION A-A



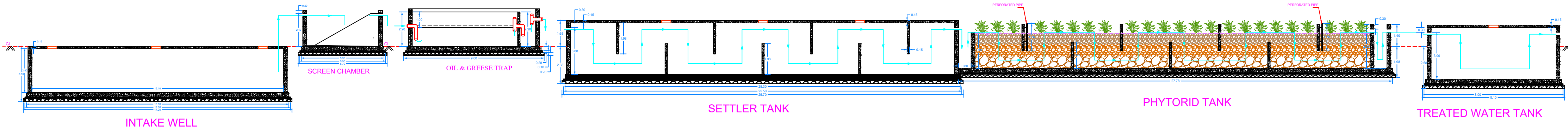
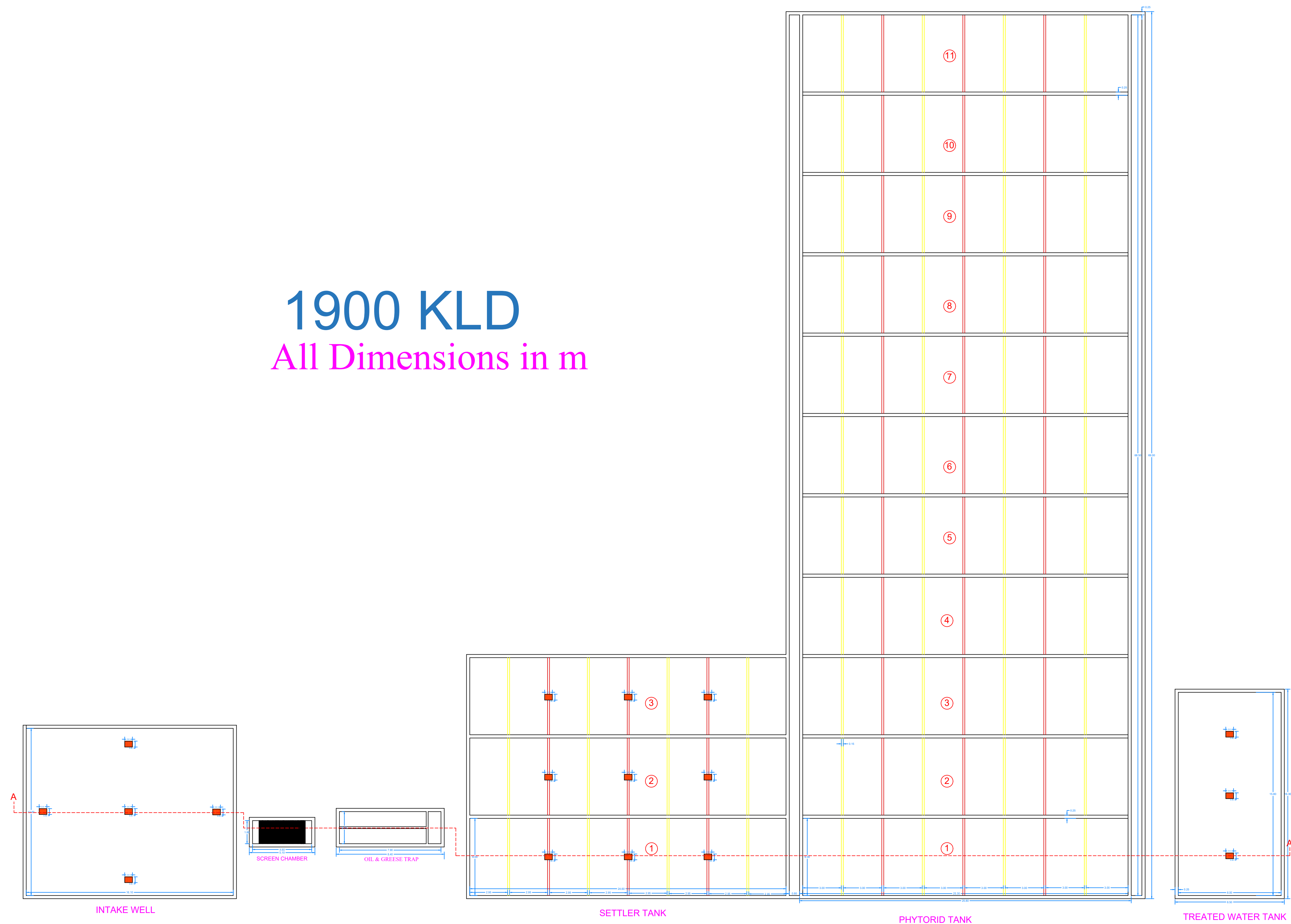
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INSTITUTE

Phytoid Based Sewage Treatment Plant

LEGEND	
CAPACITY	: 1.1 MLD
PROJECT	: Supaul
ALL DIMENSION ARE IN METER	

N
↑

1900 KLD
All Dimensions in m



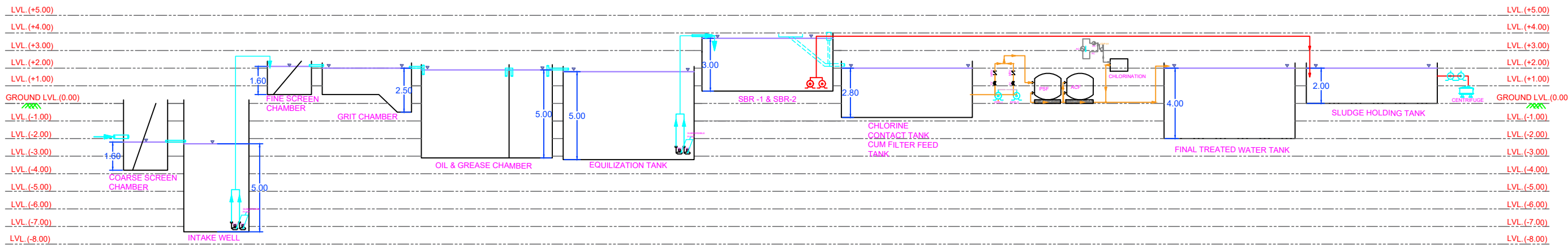
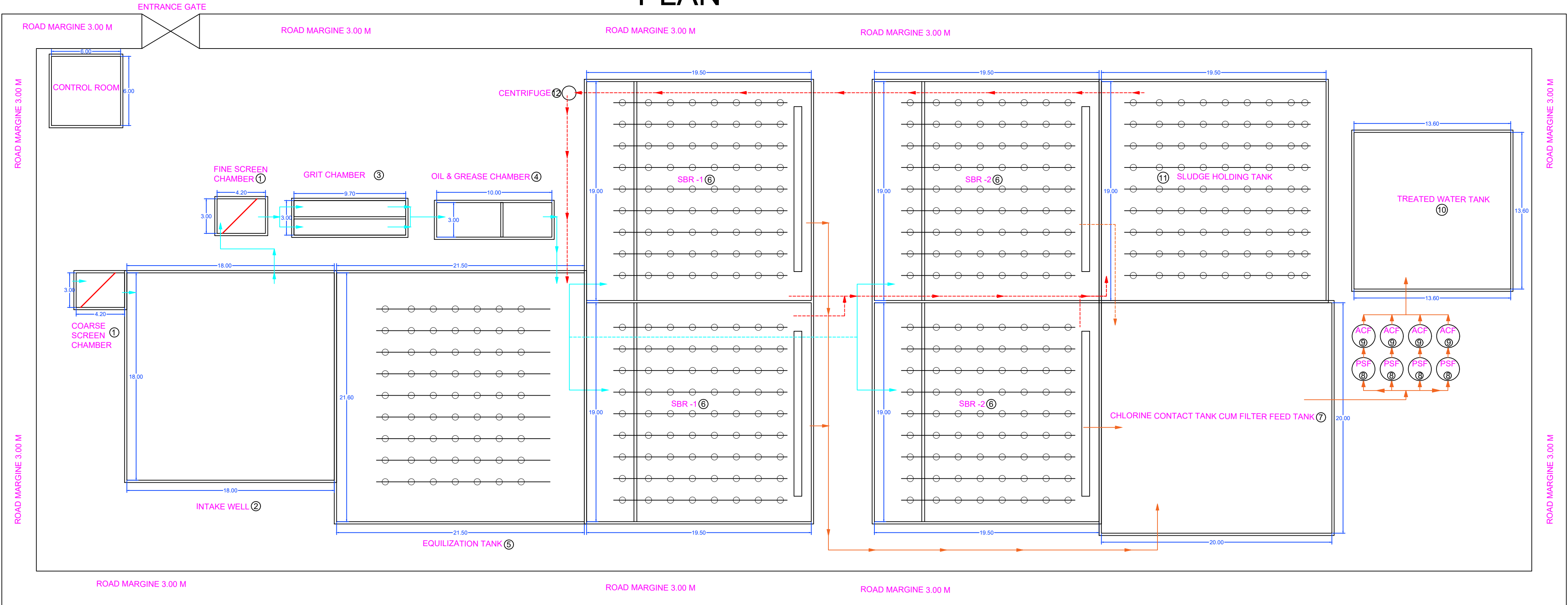
ANNEXURE 16B



CSIR - NEERI

Phytoid Technology based STP	
STP	: 2
Capacity	: 1.9MLD
PROJECT	: Supaul
ALL DIMENSIONS ARE IN METER	

PLAN



HYDRAULIC DRAWING

CAPACITY-8.9 MLD									
SR. NO.	TANK DETAILS	NO. OF TANK	LENGTH (m)	WIDTH (m)	DEPTH (m)	FREE BOARD (m)	TOTAL DEPTH (m)	AREA (Sq.m)	VOLUME (Cum)
1	Coarse Screen Chamber	1	4.200	3.000	1.600	0.300	1.900	12.900	20.640
2	Intake Well	1	18	18	5.000	0.500	5.500	330.000	1650
1	Fine Screen Chamber	1	4.200	3.000	1.600	0.300	1.900	12.900	20.640
3	Grit Chamber	2	9.700	1.400	2.500	0.300	2.800	27.500	69
4	Oil & Grease Chamber	1	10.000	3.000	5.000	0.300	5.300	27.500	137.500
5	Equilization Tank	1	21.600	21.500	5.000	0.300	5.300	468.720	2250
6	SBR-I	2	19.500	19.000	3.000	0.300	3.300	750	2250
6	SBR-II	2	19.500	19.000	3.000	0.300	3.300	750	2250
7	Chlorine Contact Tank	1	20.000	20.000	2.800	0.300	3.100	401.800	1125
8	PSF								
9	ACF								
10	Treated Water Tank	1	13.600	13.600	4.000	0.300	4.300	187.500	750
11	Sludge Holding Tank	1	19.500	19.000	2.000	0.300	2.300	375.000	750
12	Centrifuge								

SEWAGE TREATMENT PLANT		
LEGEND		
SYMBOL	DESCRIPTION	CAPACITY
	SEWAGE FLOW	8.9 MLD
	SLUDGE FLOW	
	WATER FLOW	
ALL DIMENSION ARE IN METER		



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INSTITUTE

SBR BASED SEWAGE TREATMENT PLANT

LEGEND

CAPACITY : 8.9 MLD

PROJECT : SUPAUL

ALL DIMENSION ARE IN METER

