



PROPOSED INTERVENTIONS

Sl	Interventions / Items	Qty
1	De-Weeding	1019000 Sqm
2	De-Silting	36706 Cum
3	Peripheral Bund	1867 meter
4	H P Laying – 600 φ	2 nos
5	Demarcation Pillar	20 nos
6	Rearing Tank – 0.15 ha each	4 nos
7	Stocking Tank – 0.40 ha each	3 nos
8	Pen Culture	
	Rearing Pen – 0.20 ha each	2 nos
	Stocking Pen - 0.40 ha each	3 nos
9	Katal/Jeng - 0.2 ha each	2 nos
10	Community Hall cum Wetland Information Centre	202.09 Sqm PA
11	Fish Landing Structure	66.93 Sqm PA
12	Solar Lamp	7 units
13	Information Board	2 nos

FUTURE PROVISION : (From other components)

1.	Vermicomposting unit
2.	Landscaping and plantation
3.	Eco-tourism development
4.	Furniture for community hall cum Wetland Information Centre
5.	Craft & Gear

Name of Beel:	Chola-Mikirbheta Beel
Development Block :	Roha
Revenue Village :	Chatorbari
District :	Nagaon
Lat/Long-	26.243112, 92.469875
Beel Area :	13.16 ha
Project Title:	Sustainable Wetlands and Integrated Fisheries Transformation (SWIFT)

Client Detail:	ARIAS Society 
Consultant Details :	Sumato Globaltech Private Limited

Title: MASTER PLAN LAYOUT OF CHOLA-MIKIRBHETA BEEL

Date	Checked By	Submitted to	Recommended by	Approved by

Legend

	Vermicompost Site
	Demarcation Pillar
	TBM (58.6 m)
	Proposed HP
	Paved Road
	Unpaved Road
	Proposed Embankment
	Katal Structure
	Rearing Pen
	Stocking Pen
	Stocking Tank
	Rearing Tank
	Fish Landing Structure
	Community hall cum Wetland Information Centre
	Beel Boundary

26°14'30"N

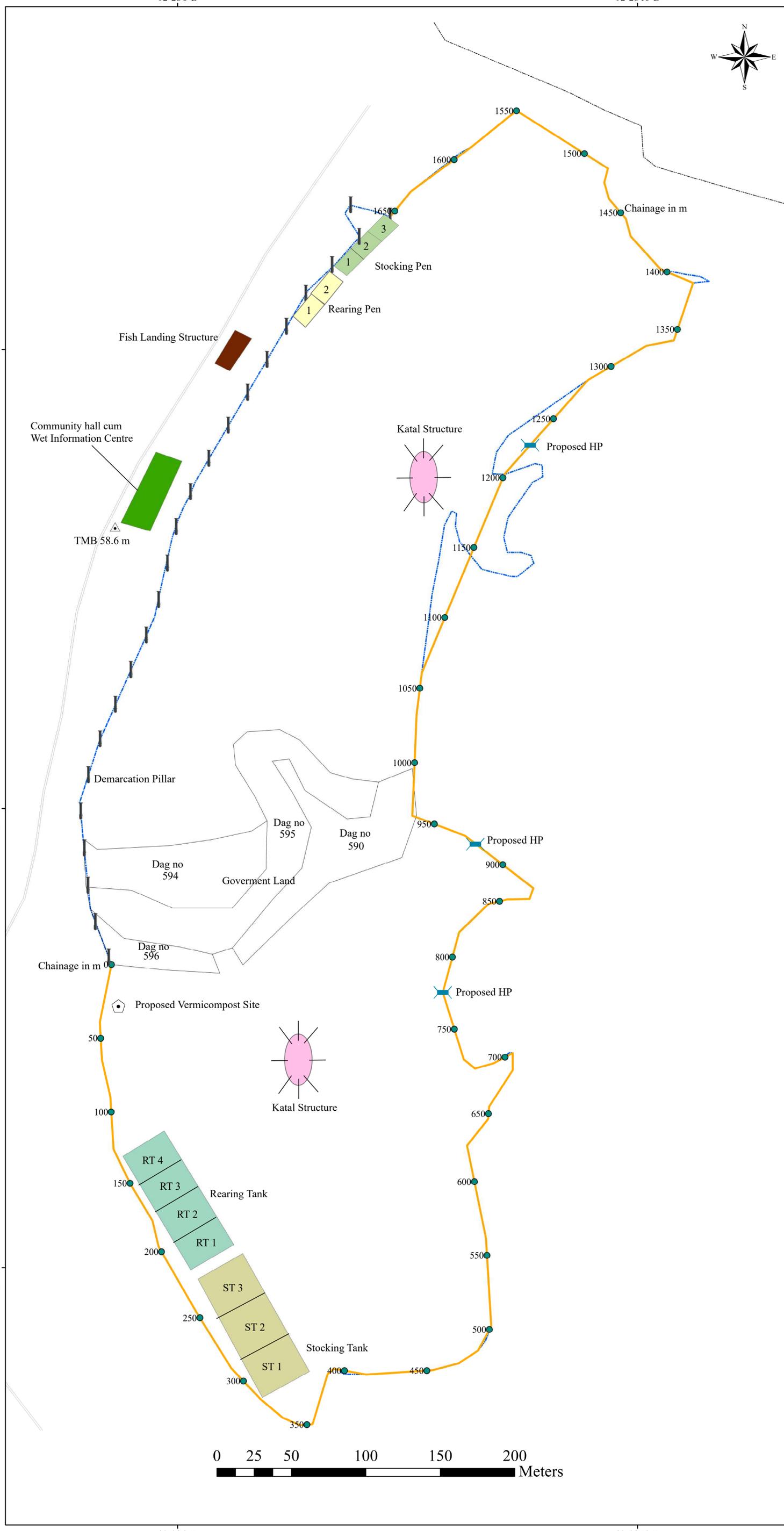
26°14'20"N

26°14'10"N

26°14'30"N

26°14'20"N

26°14'10"N



92°27'48"E

92°27'55"E

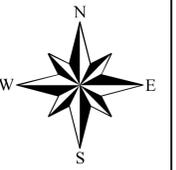
92°28'2"E

92°28'9"E

92°28'16"E

92°28'23"E

DRONE IMAGE OF CHOLA-MIKIRBHETA BEEL, NAGAON



26°14'41"N

26°14'34"N

26°14'27"N

26°14'20"N

26°14'13"N

26°14'6"N

26°13'59"N

26°14'41"N

26°14'34"N

26°14'27"N

26°14'20"N

26°14'13"N

26°14'6"N

26°13'59"N



0 45 90 180 270 360 Meters

92°27'48"E

92°27'55"E

92°28'2"E

92°28'9"E

92°28'16"E

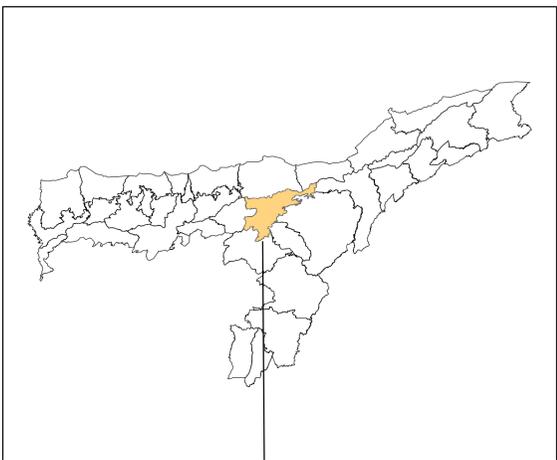
92°28'23"E

92°28'0"E 92°28'10"E
LOCATIONAL MAP OF CHOLA-MIKIRBHETA BEEL, NAGAON



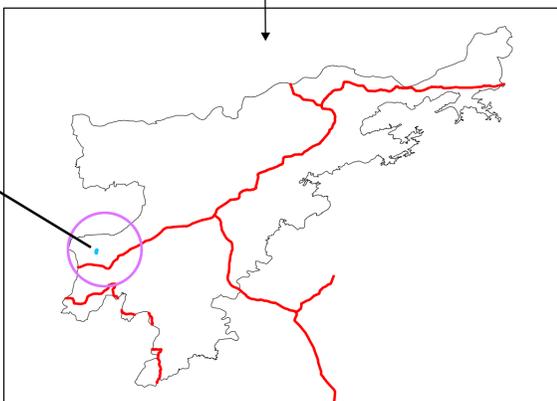
26°14'30"N

26°14'30"N



26°14'20"N

26°14'20"N



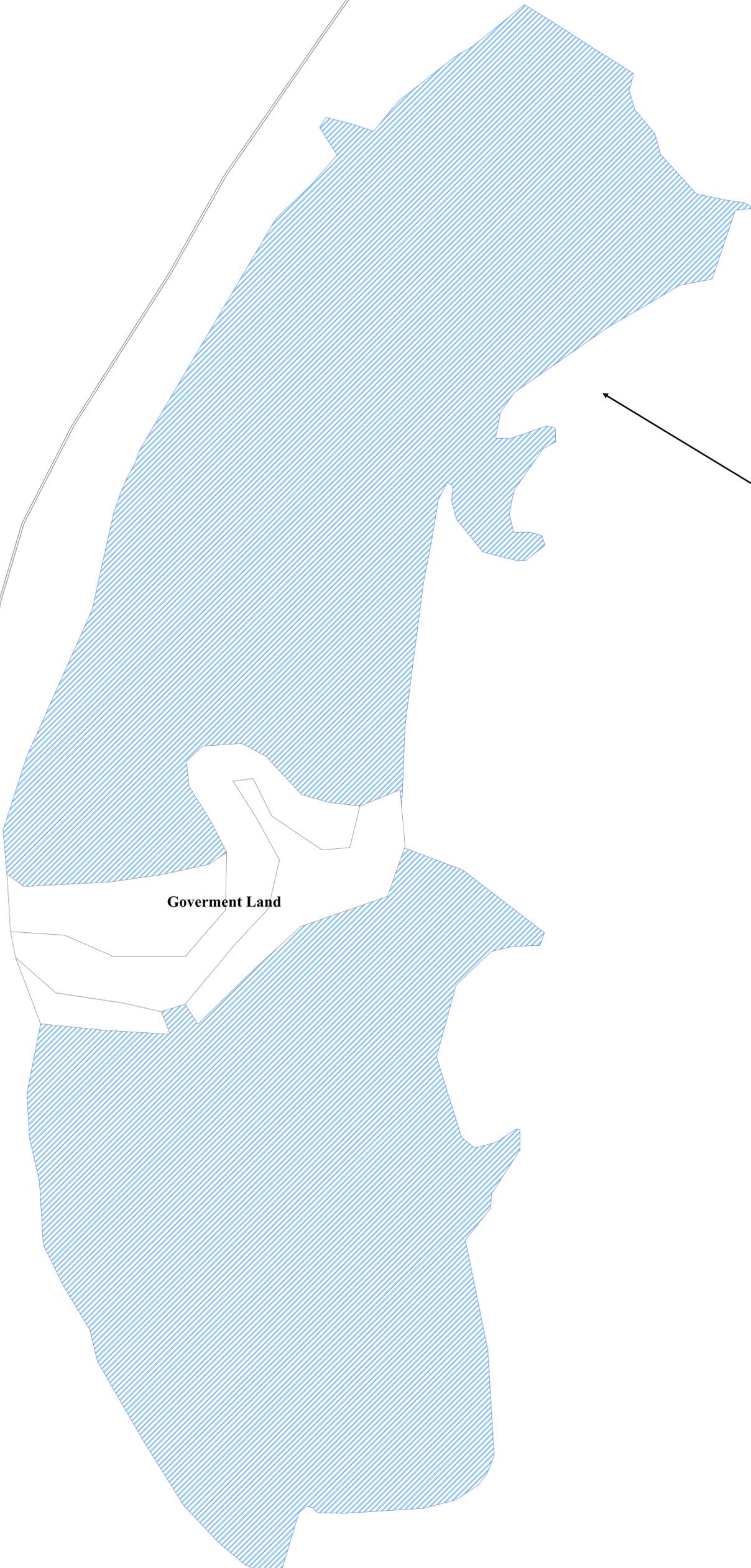
26°14'10"N

26°14'10"N

Legend

Lat- 26.243112
Long-92.466076
Lat-26.235158
Long-92.469875

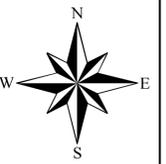
 Beel Boundarry 13.16 ha



92°28'0"E

92°28'10"E

BATHYMETRIC MAP & PROFILE GRAPH OF CHOLA-MIKIRBHETA BEEL, NAGAON



26°14'30"N

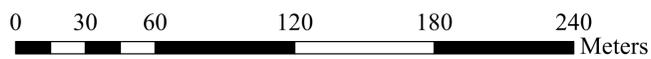
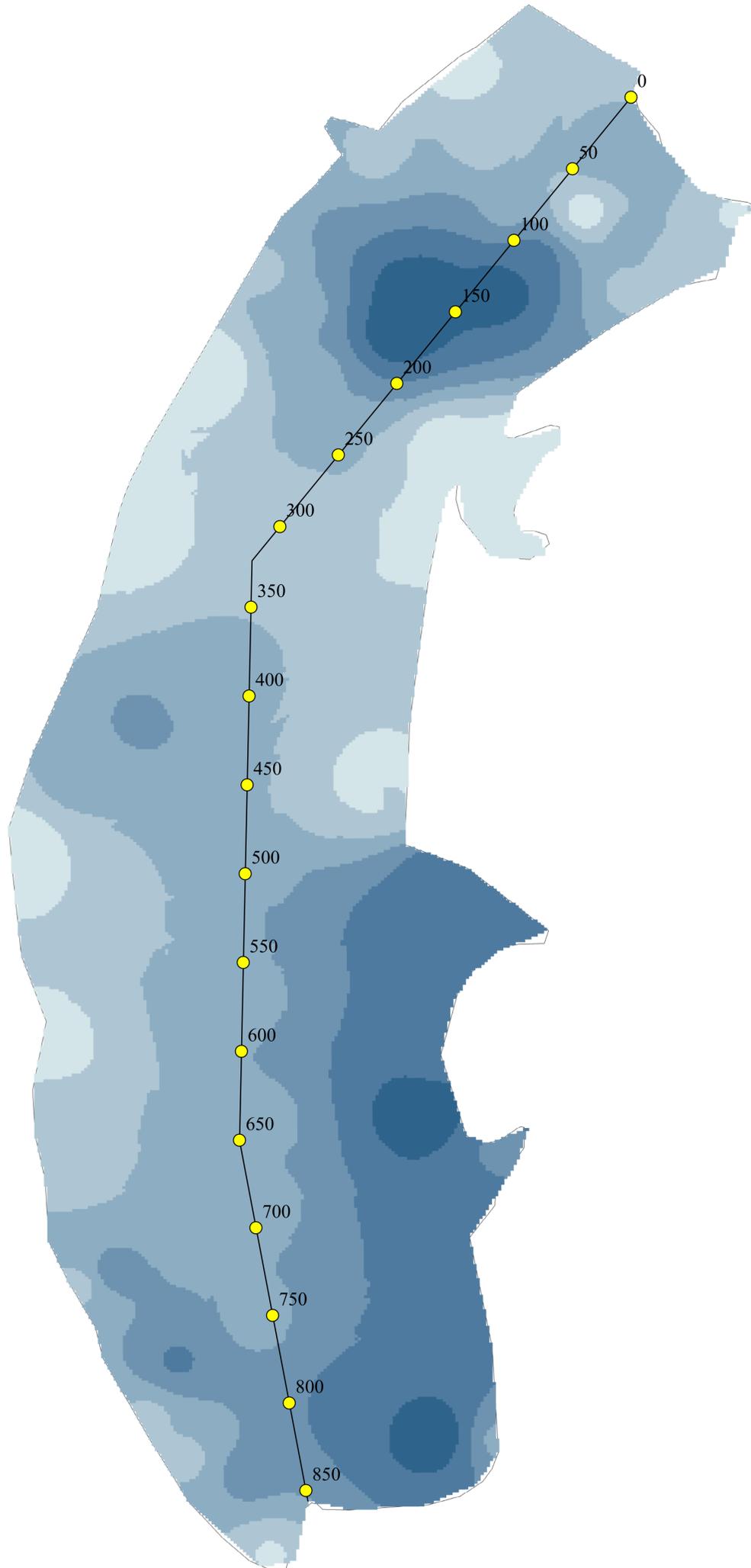
26°14'30"N

26°14'20"N

26°14'20"N

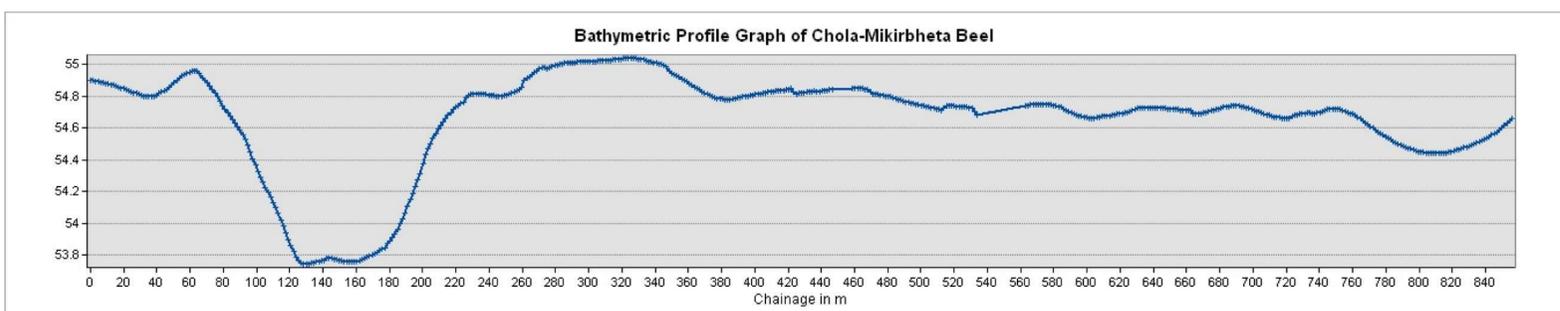
26°14'10"N

26°14'10"N



Legend

—	Cross Section
Dark Blue	53.25 - 53.94
Medium-Dark Blue	53.95 - 54.33
Medium Blue	54.34 - 54.64
Light Blue	54.65 - 54.9
Very Light Blue	54.91 - 55.2
White	55.21 - 55.75



WEED INFESTED MAP OF CHOLA-MIKIRBHETA BEEL, NAGAON SHOWING THE WEED TYPE & AREA COVERED

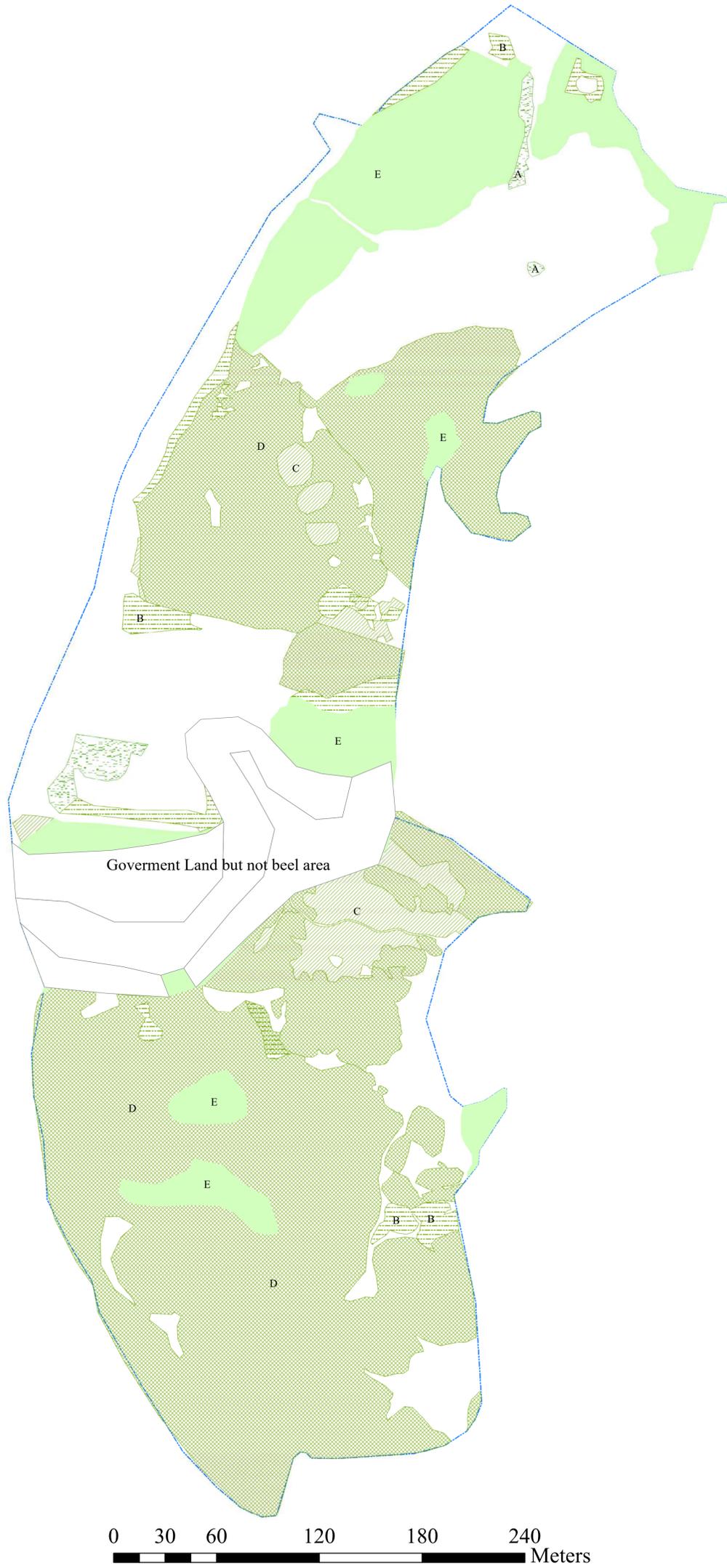
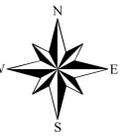


Table-This table shows the types of weed & categories they belong

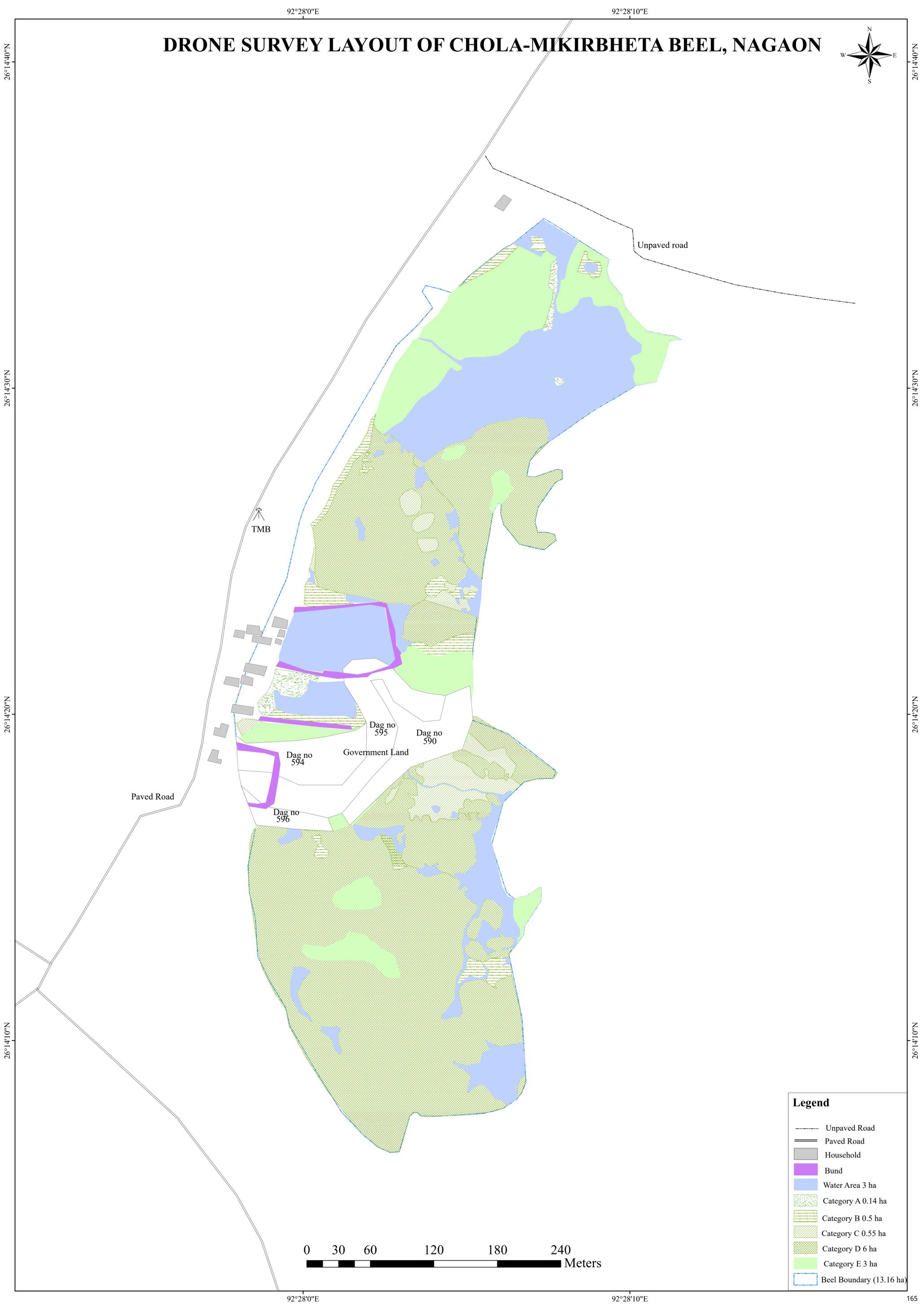
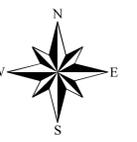
Weed Category	Type	Area in sqm	%
A	Thin and floating water hyacinths and other aquatic weeds etc.	5095	5
B	Thick and floating water hyacinths and other aquatic weeds etc.	10190	10
C	Thick and floating Taranies, Dalanies, Pitannies and other marginal aquatic weeds etc. upto a depth of 50 cm	15285	15
D	Medium and floating Taranies, Dalanies, Pitannies and other marginal aquatic weeds etc. upto a depth of 50 cm to 80 cm	40760	40
E	Heavy and floating Taranies, Dalanies, Pitannies and other marginal aquatic weeds etc. upto a depth of 80 cm to 120 cm	30570	30

Legend

Weed Category

- Category A 0.5 ha
- Category B 1.01 ha
- Category C 1.52 ha
- Category D 4.07 ha
- Category E 3.05 ha
- Beel Boundary (13.16 ha)

DRONE SURVEY LAYOUT OF CHOLA-MIKIRBHETA BEEL, NAGAON



Paved Road

Unpaved road

TMB

Government Land

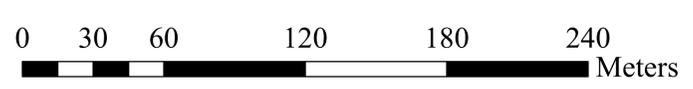
Dag no 594

Dag no 595

Dag no 590

Dag no 596

- Legend**
- Unpaved Road
 - Paved Road
 - Household
 - Bund
 - Water Area 3 ha
 - Category A 0.14 ha
 - Category B 0.5 ha
 - Category C 0.55 ha
 - Category D 6 ha
 - Category E 3 ha
 - Beel Boundary (13.16 ha)



92°28'0"E 92°28'10"E 26°14'10"N 26°14'20"N 26°14'30"N 26°14'40"N

CONTOUR MAP OF CHOLA-MIKIRBHETA BEEL, NAGAON

0.25 m CONTOUR INTERVAL



26°14'30"N

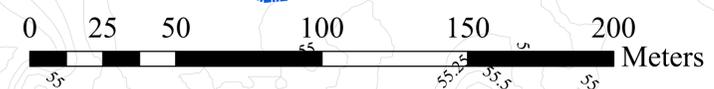
26°14'30"N

26°14'20"N

26°14'20"N

26°14'10"N

26°14'10"N



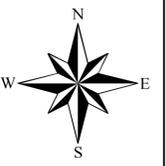
Legend

- Contour (0.25 m)
- Beel Boundary



BATHYMETRIC CONTOUR MAP OF CHOLA-MIKIRBHETA BEEL

0.25 m CONTOUR INTERVAL



26°14'30"N

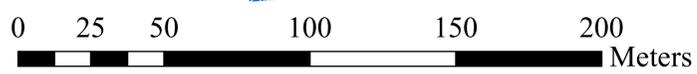
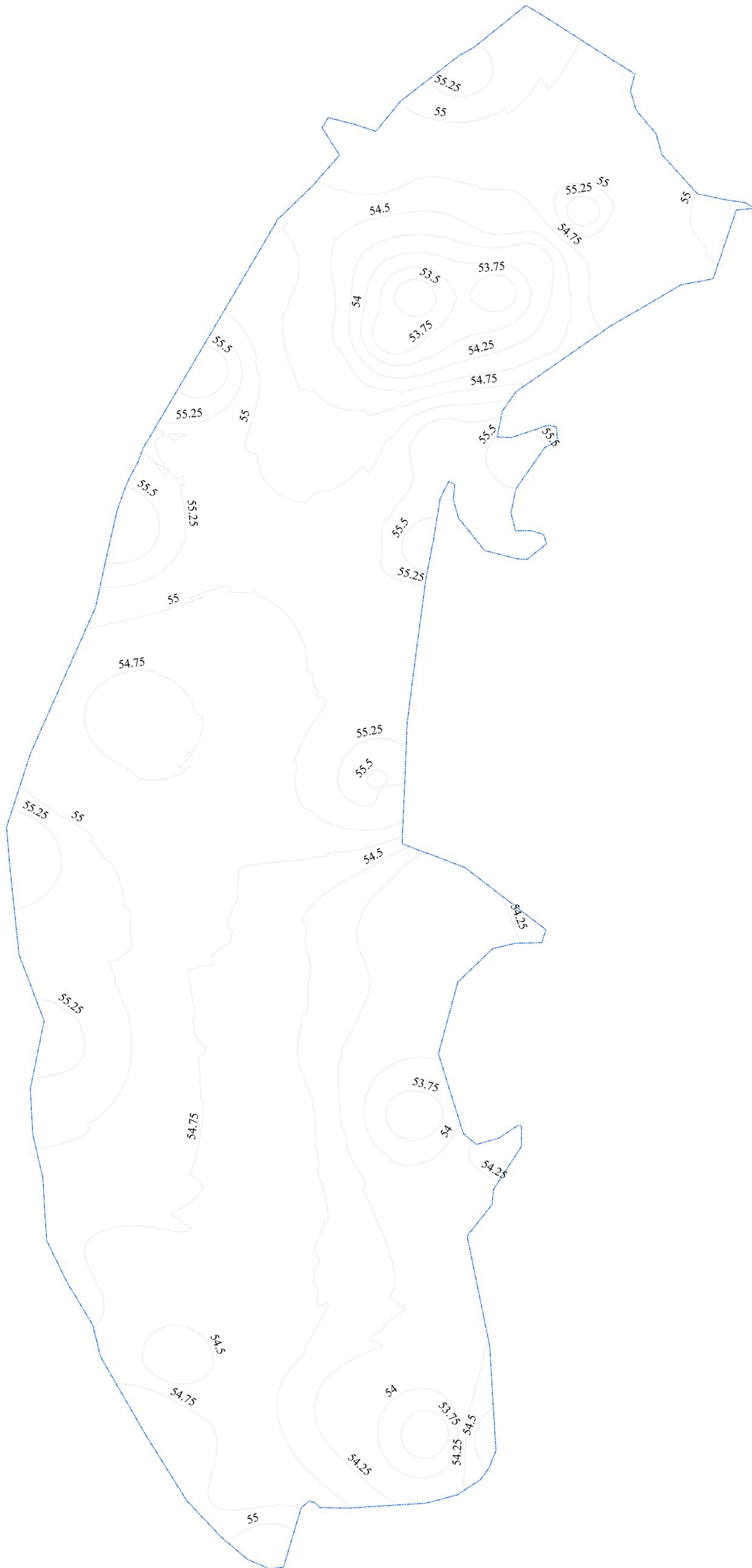
26°14'30"N

26°14'20"N

26°14'20"N

26°14'10"N

26°14'10"N



Legend

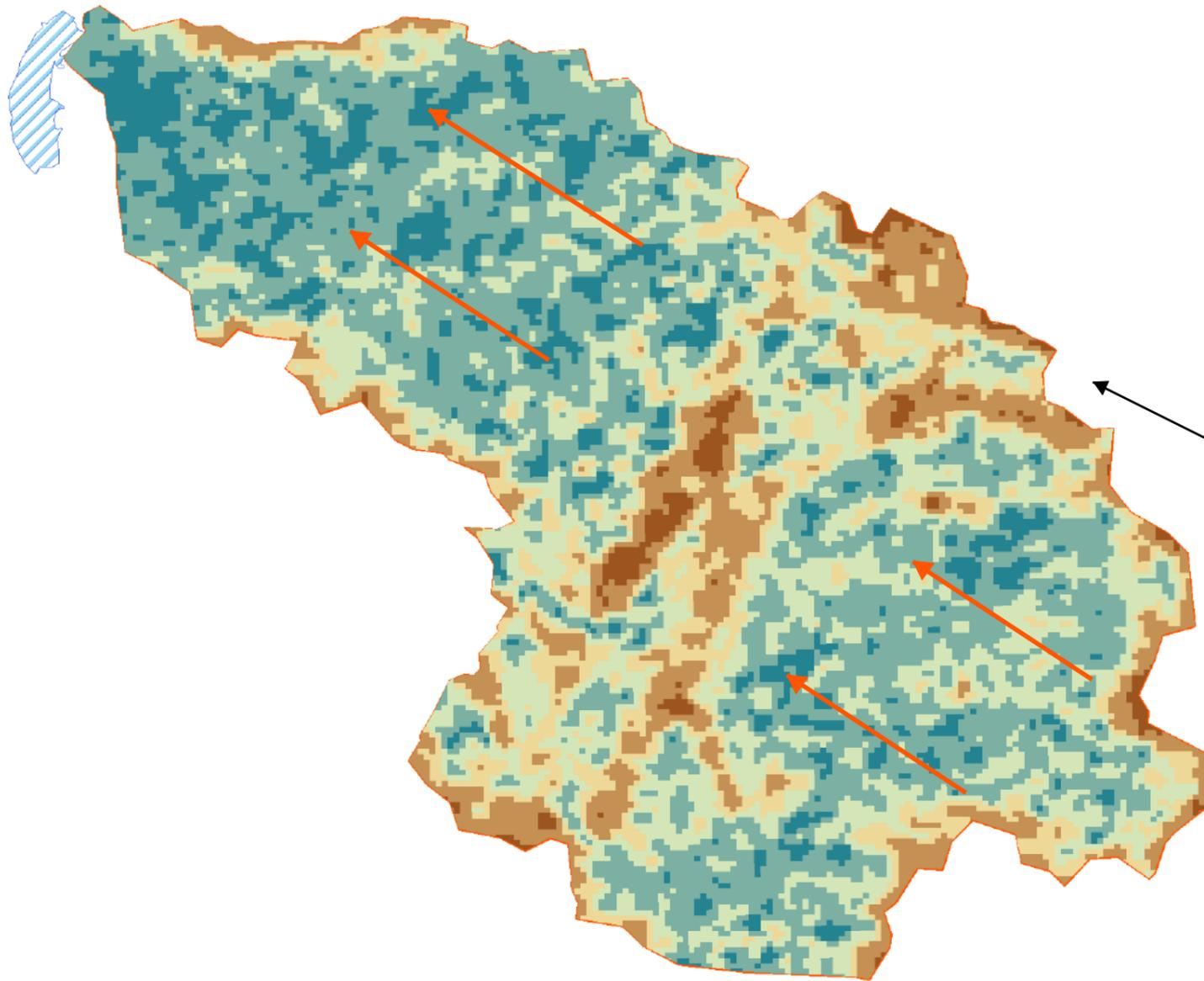
- Bathymetric Contour
- - - Beel Boundary

92°28'0"E 92°29'0"E 92°30'0"E 92°31'0"E 92°32'0"E

CATCHMENT AREA OF CHOLA-MIKIRBHETA BEEL, NAGAON



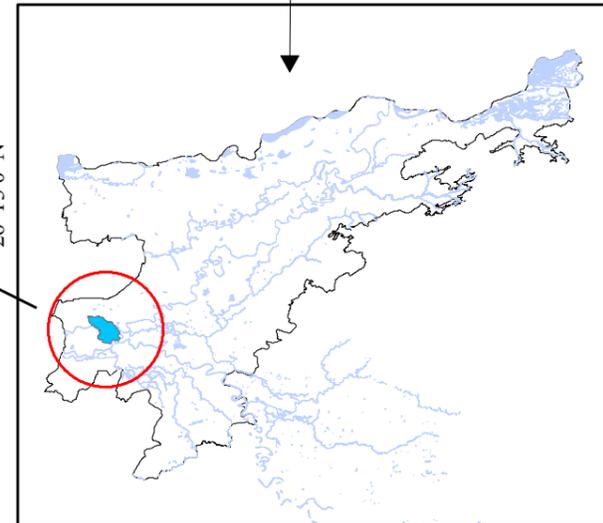
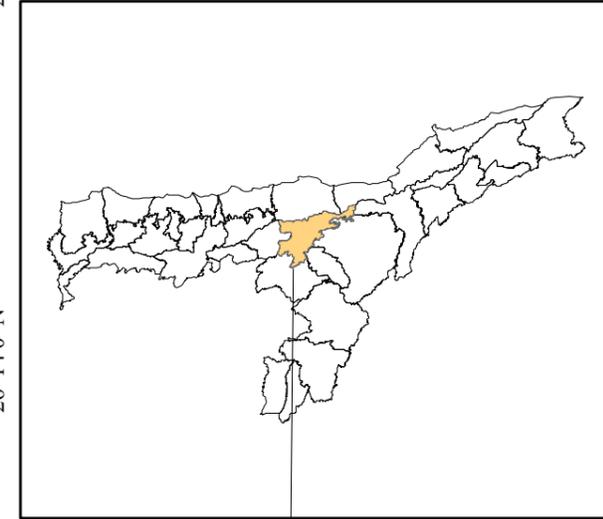
26°15'0"N
26°14'0"N
26°13'0"N
26°12'0"N
26°11'0"N



Legend

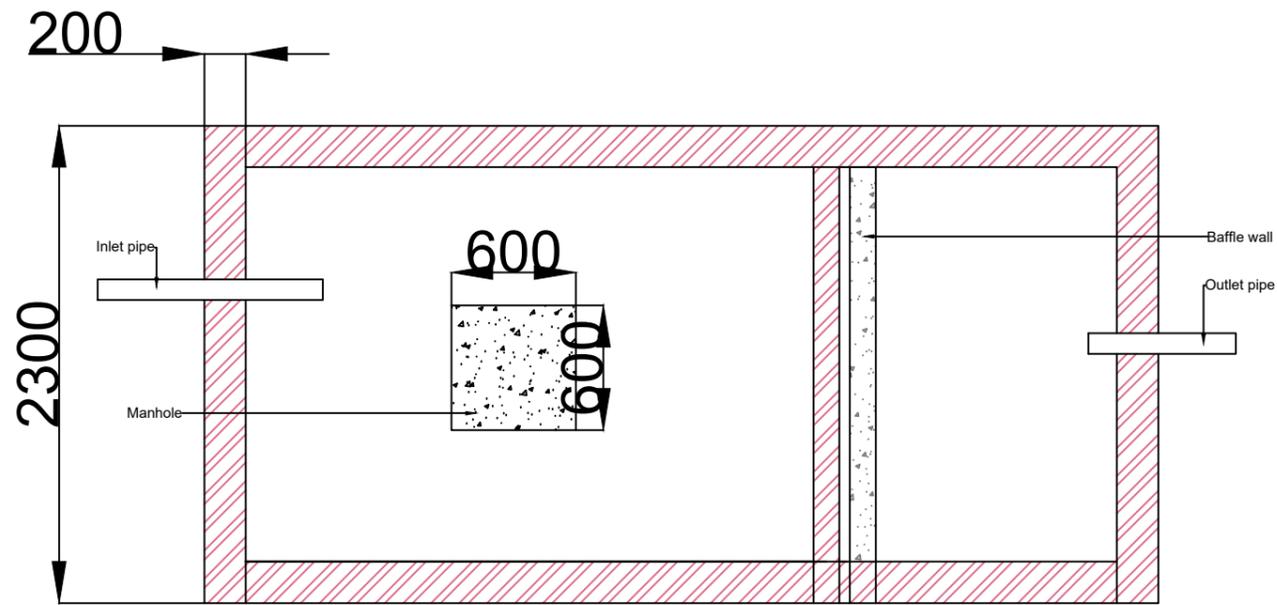
- Flow Direction
- Elevation in m From MSL
- 56 - 60
- 60.01 - 61.96
- 61.97 - 64
- 64.01 - 65.96
- 65.97 - 69.96
- 69.97 - 76
- Catchment Area 1582 ha
- Beel Boundary 13.16 ha

26°15'0"N
26°14'0"N
26°13'0"N
26°12'0"N
26°11'0"N

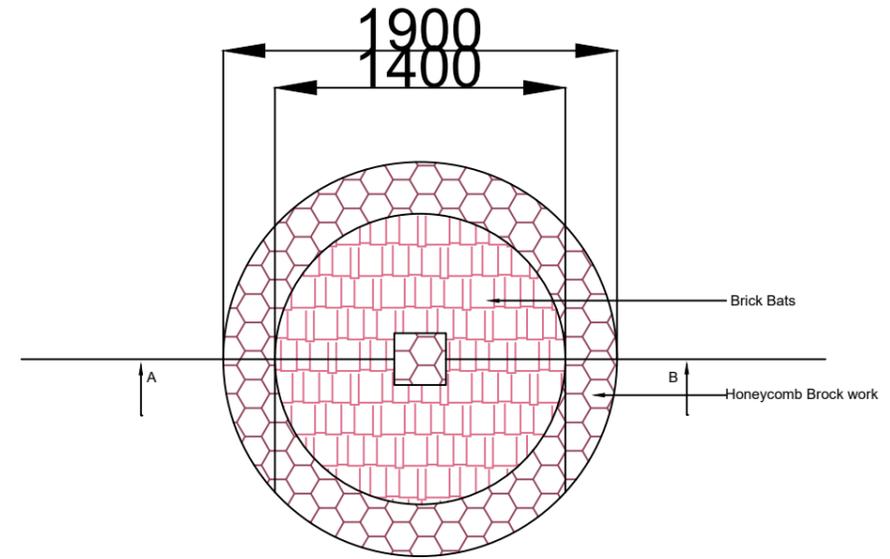


Catchment analysis of the Rowmari Beel in Morigaon District indicates that the Beel is hydrologically isolated and not connected to any river system. The Beel receives surface runoff from a contributing catchment area of approximately 589.81 hectares located to the northwest, below the Beel's elevation level. The outlet channel is situated opposite the inlet, aligned along the same flow direction. The flow accumulation pattern is represented by red arrows in the analysis map.

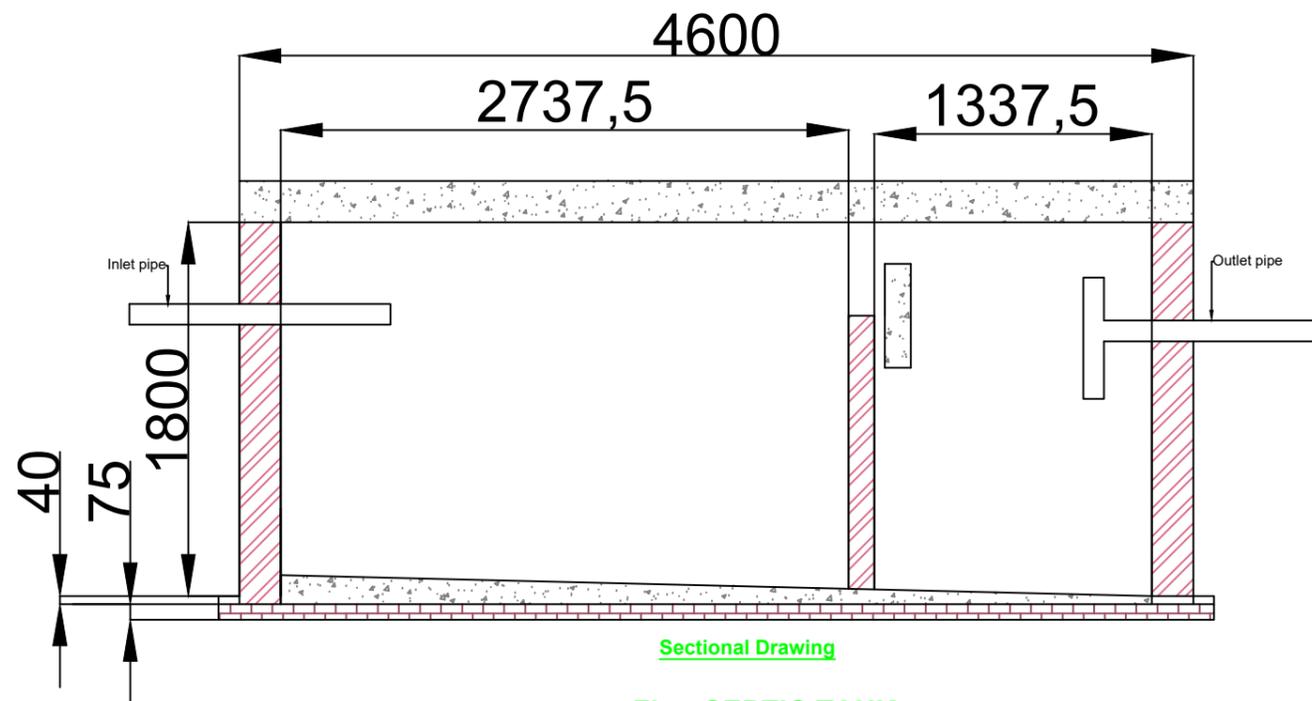
92°28'0"E 92°29'0"E 92°30'0"E 92°31'0"E 92°32'0"E



Plan Drawing

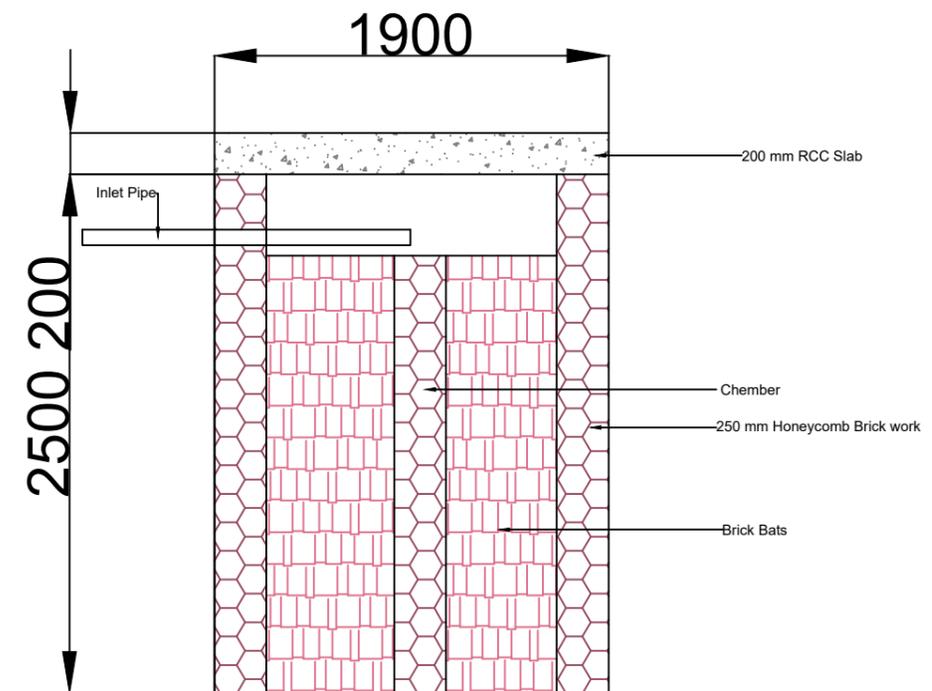


Plan Drawing



Sectional Drawing

Fig:- SEPTIC TANK



Sectional Drawing

Fig:- SOAK PIT

KEY PLAN

REFERENCE DRAWING

NO	DRAWING NO.	DESCRIPTION

GENERAL NOTES

- ALL DIMENSION ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

LEGEND

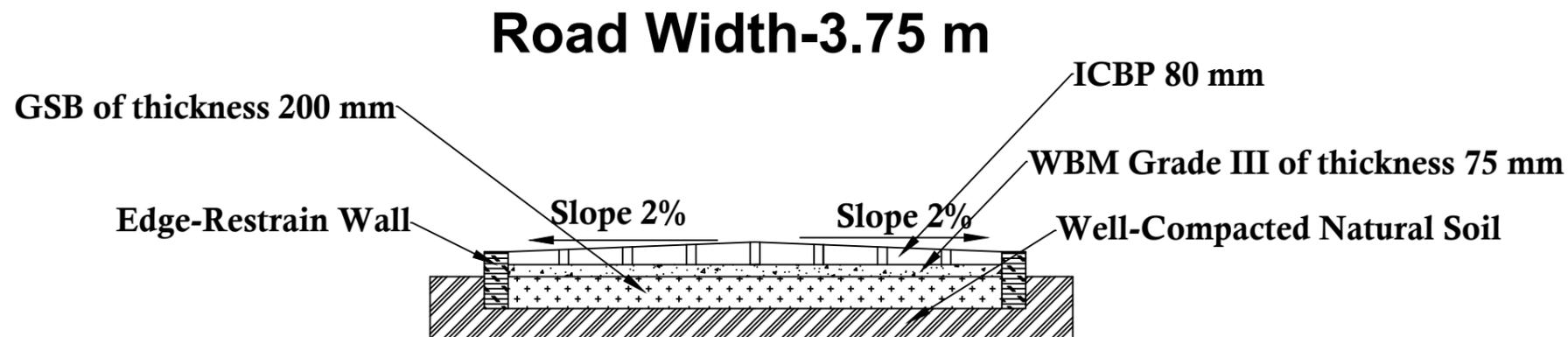
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PROJECT	CLIENT
SWIFT DPR	ARIAS

DRAWING TITLE	SCALE	DATE	NO. OF SHEETS
COMMUNITY HALL SEPTIC TANK AND SOAK PIT	A3		

SUMATO GLOBALTECH PVT LTD	AVATAR COMPLEX, NAKHARANI PATH, DISPUR GUWAHATI, ASSAM
Architects & Consultant	

TYPICAL SECTION OF APPROACH ROAD



NOTES

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2. All dimensions are in millimeters except where mentioned otherwise.
3. Drawings are not to be scaled, written dimensions are to be followed. All discrepancies to be brought to the notice of the Architect and resolved before commencement of any work.
4. This drawing is to be read in conjunction with details, large scale drawings, structural, plumbing, electrical and other relevant drawings.
5. Detail drawings shall supercede smaller scale drawings and notes.
6. All lintel lvl. Is from finish floor lvl.

DESCRIPTION



R E V I S I O N S

CLIENT:
ARIAS SOCIETY

PROJECT TITLE:

Sustainable Wetlands and Integrated Fisheries Transformation (SWIFT) Project

DRAWING CONTENTS:

REARING TANK & STOCKING TANK

DRAWING TITLE:-

PLAN & SECTION

SCALE: 1:175

DRAWN BY:

DATE : 12-01-2025

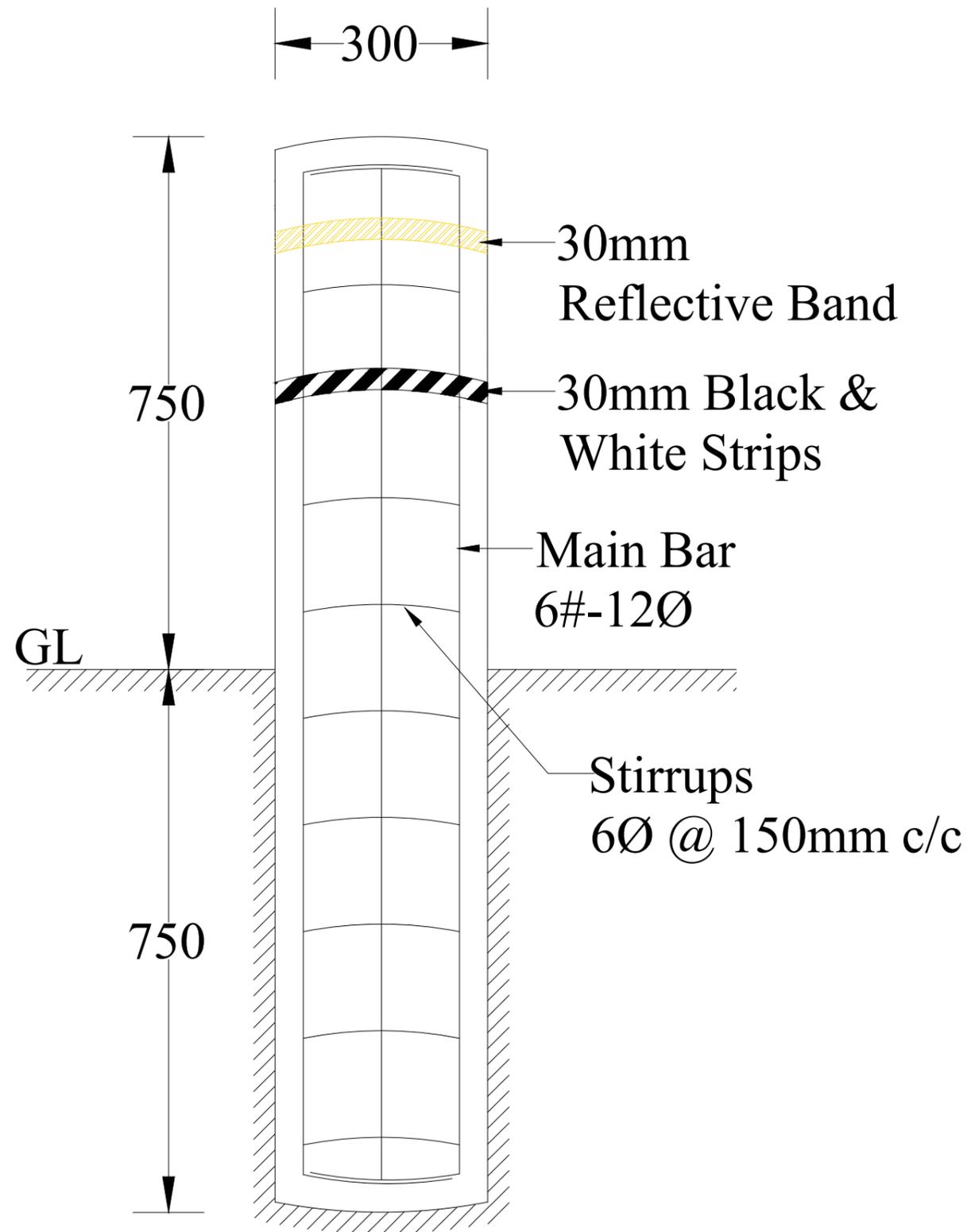
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SIGNATURE:

DESIGNED BY:

CONSULTANT ►

**SUMATO GLOBALTECH
PVT LTD**



KEY PLAN

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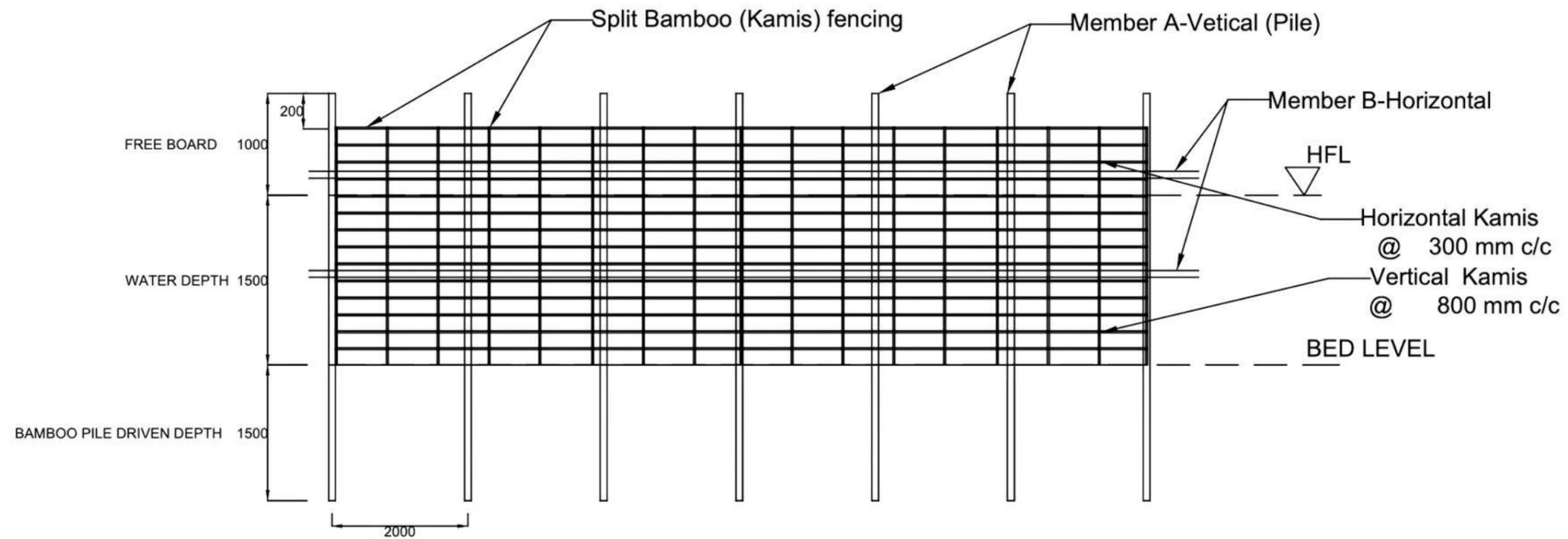
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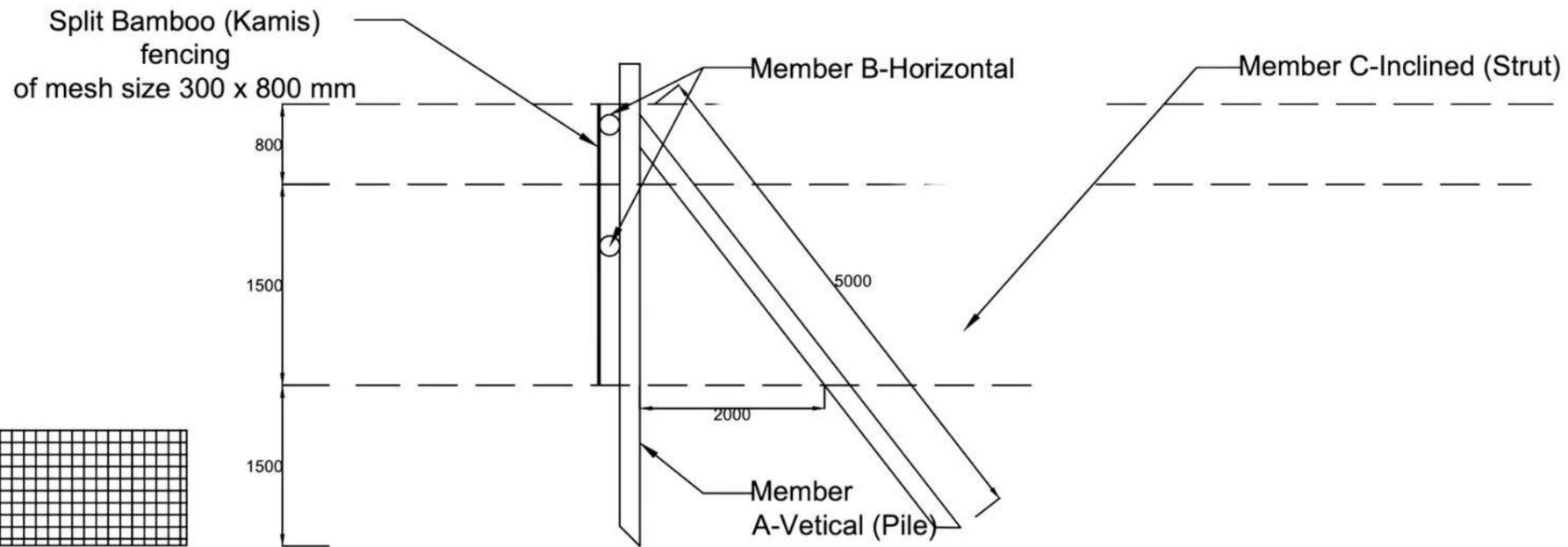
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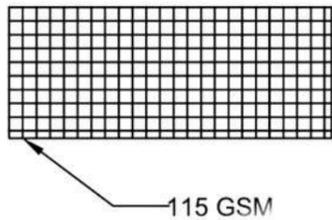
PROJECT SWIFT DPR		CLIENT ARIAS	
DRAWING TITLE COMMUNITY HALL		NO	SHEET
SUMATO GLOBALTECH PVT LTD Architects & Consultant		AVATAR COMPLEX KANDAMBA PATEL, DESHPANDE DUMBAKATI-781008	



PEN CULTURE STRUCTURE AT BEEL/WETLAND FISHERIES. (FRONT-ELEVATION)



URE STRUCTURE AT BEEL/WETLAND



KEY PLAN

REFERENCE DRAWING

NO.	DRAWING NO.	DESCRIPTION

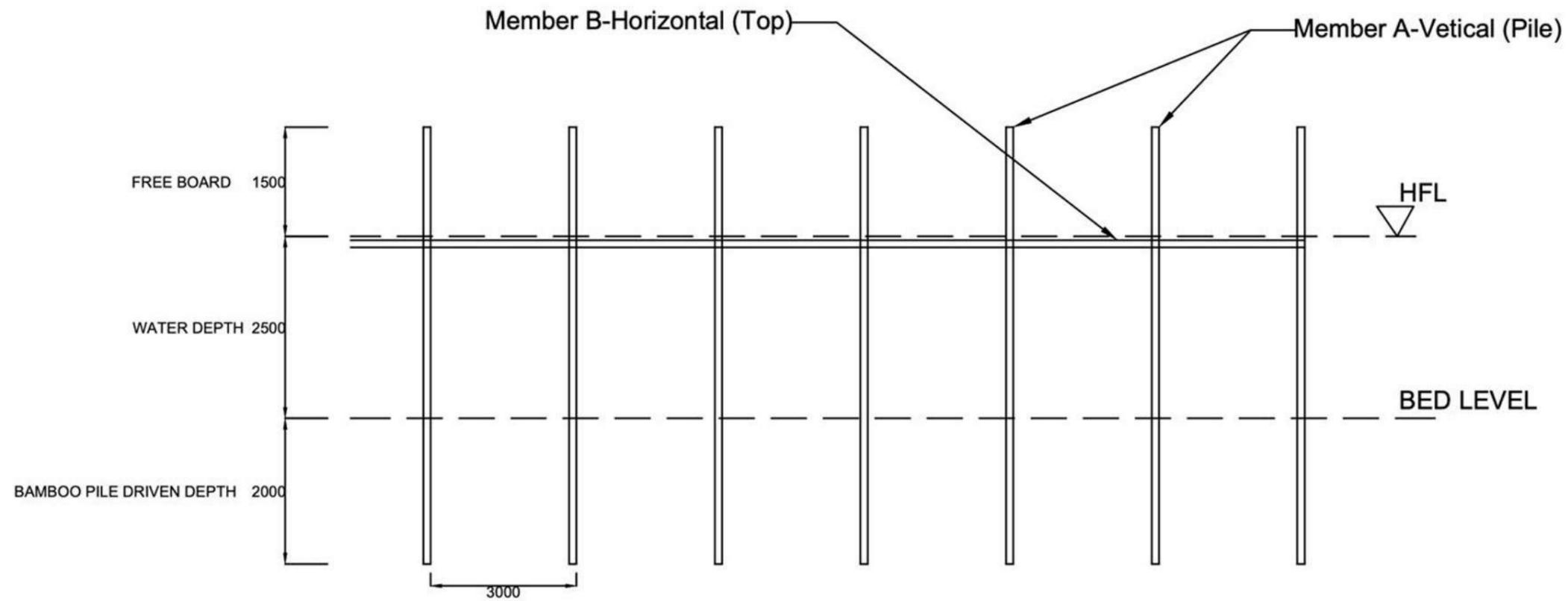
GENERAL NOTES

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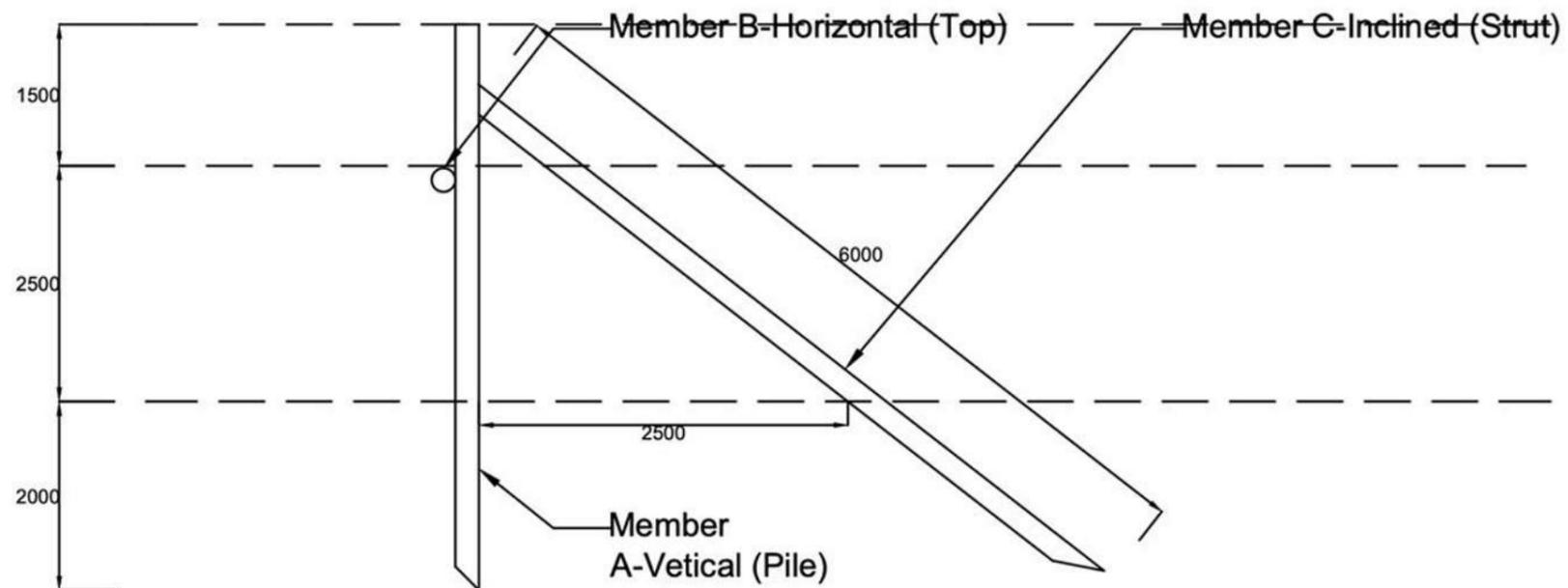
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PROJECT	CLIENT
SWIFT DPR	ARIAS
DRAWING TITLE	
PEN CULTURE	
SUMATO GLOBAL TECH PVT LTD	AVATAR COMPLEX, RAJAJANATH PALLE, DISPUR, GUWAHATI, ASSAM
Architects & Consultant	



KATAL/CATTLE FISHING STRUCTURE AT BEEL/WETLAND FISHERIES. (FRONT-ELEVATION)



KATAL/CATTLE FISHING STRUCTURE AT BEEL/WETLAND FISHERIES. (SIDE-ELEVATION)

KEY PLAN

REFERENCE DRAWING

NO	DRAWING NO.	DESCRIPTION

GENERAL NOTES

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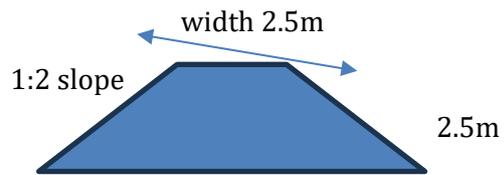
LEGEND

NO	REV	DATE	DESCRIPTION	BY	CHECKED	APPROVED

PROJECT	CLIENT
SWIFT DPR	ARIAS
DRAWING TITLE	
KATAL FISHING	
SUMATO GLOBAL TECH PVT LTD	AVATAR COMPLEX, RAJAJANATHALAS, DISPUR, GUWAHATI, ASSAM
Architects & Consultant	

Mean area method

Name	Embakment A
Ground level (RL)	55
Desired hight	2.5
slope (1:2)	2
Embankment top width	2
top RL of embakment	57.5



Total earthwork required

Chainage (m)	Elevation (m)	Depth (D)	Area	Mean Area	Length	Quantity of filling
0	55.0006	2.4994	18.7425007	0	0	0.00
30	54.9983	2.5017	18.7712558	18.7568783	30	562.71
60	55.0002	2.4998	18.7475001	18.7593779	30	562.78
90	54.9928	2.5072	18.8401037	18.7938019	30	563.81
120	55.0847	2.4153	17.7055982	18.2728509	30	548.19
150	55.0131	2.4869	18.5865932	18.1460957	30	544.38
180	54.9287	2.5713	19.6514174	19.1190053	30	573.57
210	55.2476	2.2524	15.7776115	17.7145145	30	531.44
240	55.1166	2.3834	17.3196911	16.5486513	30	496.46
270	54.9972	2.5028	18.7850157	18.0523534	30	541.57
300	54.9962	2.5038	18.7975289	18.7912723	30	563.74
330	55.0001	2.4999	18.74875	18.7731395	30	563.19
360	55	2.5	18.75	18.749375	30	562.48
390	55	2.5	18.75	18.75	30	562.50
420	55	2.5	18.75	18.75	30	562.50
450	55.0001	2.4999	18.74875	18.749375	30	562.48
480	55	2.5	18.75	18.749375	30	562.48
510	55.0001	2.4999	18.74875	18.749375	30	562.48
540	55.0001	2.4999	18.74875	18.74875	30	562.46
570	55.0008	2.4992	18.7400013	18.7443757	30	562.33
600	55	2.5	18.75	18.7450006	30	562.35
630	54.9998	2.5002	18.7525001	18.75125	30	562.54
660	54.9998	2.5002	18.7525001	18.7525001	30	562.58
690	54.9997	2.5003	18.7537502	18.7531251	30	562.59
720	54.9998	2.5002	18.7525001	18.7531251	30	562.59
750	54.9999	2.5001	18.75125	18.7518751	30	562.56
780	55	2.5	18.75	18.750625	30	562.52

810	55	2.5	18.75	18.75	30	562.50
840	55	2.5	18.75	18.75	30	562.50
870	55.0001	2.4999	18.74875	18.749375	30	562.48
900	55	2.5	18.75	18.749375	30	562.48
930	55	2.5	18.75	18.75	30	562.50
960	54.9969	2.5031	18.7887692	18.7693846	30	563.08
990	54.9944	2.5056	18.8200627	18.804416	30	564.13
1020	54.9944	2.5056	18.8200627	18.8200627	30	564.60
1050	54.9944	2.5056	18.8200627	18.8200627	30	564.60
1080	54.7944	2.7056	21.4045427	20.1123027	30	603.37
1110	54.9944	2.5056	18.8200627	20.1123027	30	603.37
1140	54.8944	2.6056	20.0923027	19.4561827	30	583.69
1170	54.9944	2.5056	18.8200627	19.4561827	30	583.69
1200	54.9944	2.5056	18.8200627	18.8200627	30	564.60
1230	55.0503	2.4497	18.1263102	18.4731865	30	554.20
1260	54.9984	2.5016	18.7700051	18.4481577	30	553.44
1290	55.0001	2.4999	18.74875	18.7593776	30	562.78
1320	55	2.5	18.75	18.749375	30	562.48
1350	55	2.5	18.75	18.75	30	562.50
1380	55.0001	2.4999	18.74875	18.749375	30	562.48
1410	55.3645	2.1355	14.4594705	16.6041103	30	498.12
1440	55.6379	1.8621	11.5900828	13.0247767	30	390.74
1470	55.726	1.774	10.729152	11.1596174	30	334.79
1500	55.0456	2.4544	18.1841587	14.4566554	30	433.70
1530	54.9658	2.5342	19.1798393	18.681999	30	560.46
1560	54.9625	2.5375	19.2215625	19.2007009	30	576.02
1590	54.9999	2.5001	18.75125	18.9864063	30	569.59
1620	55.0008	2.4992	18.7400013	18.7456257	30	562.37
1650	54.9791	2.5209	19.0121236	18.8760625	30	566.28

30346.84