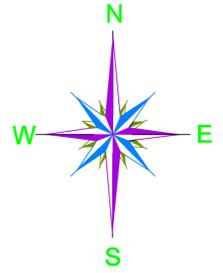


# MASTERPLAN LAYOUT OF BURHI BEEL



PROPOSED WORKS	
DESCRIPTION OF WORK	SPECIFICATION
Desilting	3600 cum
Deweeding	183993 sqm
Fish Rearing Tank	2 Nos. (50x30x1.5) cum
Community center & fish landing site, 40 sqm	40 sqm
Bamboo barrage at outlet	490 m
Demarkation Pillar	82 Nos.

## LEGENDS :

BOUNDARY	
EX. ROAD	
EX. RAILWAY	
BENCH MARK	
EX. CULVERT	
EX. BRIDGE	
EX. RIVER/ STREAM/ POND	
BEEL	
DEMARICATION OF BEEL AS PER RECORDS	
EX. VEGETATION / MARSHY AREAS	
EX. HOUSES/ BUILDING	
CATCHMENT AREA	
PROP. BUND	
PROP. SILT TRAP AT INLET	
PROP. BAMBOO BARRAGE	
PROP. APPROACH ROAD	
PROP. FISH REARING TANK	
PROP. FISH LANDING CUM COMMUNITY HALL	
PROP. PIPE CULVERT	

PROPOSED COMMUNITY CENTRE & FISH LANDING SITE (1 No. = 40 sqm.)

PROPOSED FISH REARING TANK (2 Nos. = 1500 sqm.)  
TOP LVL- 135.04 M  
BOTTOM LVL- 133.54 M

TBM - TBM No-1  
RI - 140.850 m

TBM - TBM No-2  
RI - 140.837 m

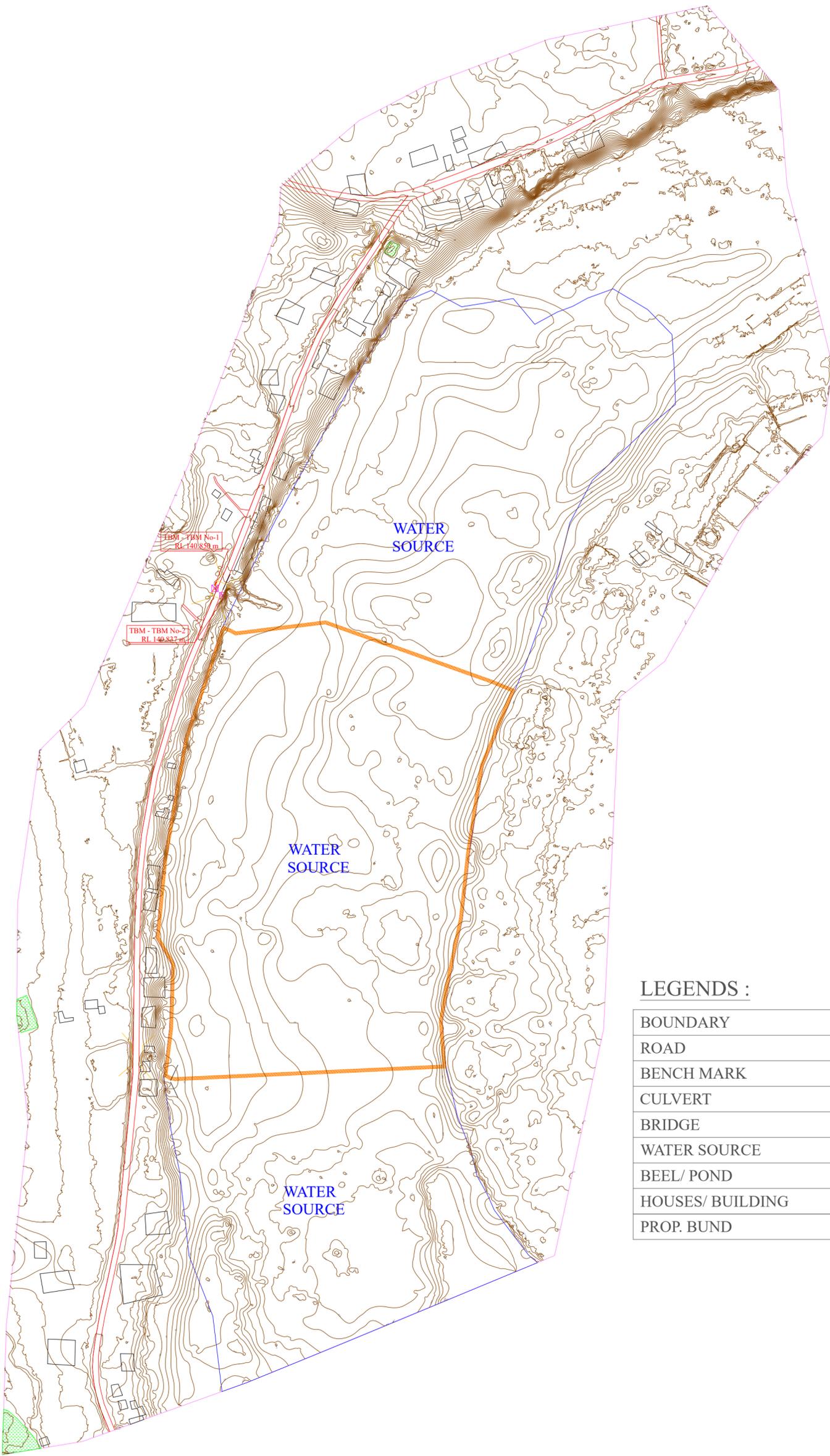
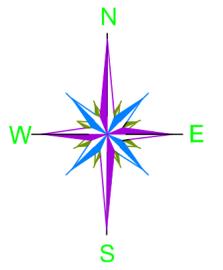
INLET  
LVL. 135.76M

OUTLET  
LVL. 133.81M

CATCHMENT AREA DRAWING

PACKAGE NO.:	02		
NAME OF THE BEEL:	BURHI BEEL		
DEVELOPMENT BLOCK:	MARGHERITA		
REVENUE VILLAGE:	3 No. ALUBARI		
DISTRICT:	TINSUKIA		
AREA (Ha):	23 Ha		
PROJECT TITLE:	Sustainable Wetlands and Integrated Fisheries Transformation (SWIFT) Project		
CLIENT :	 ARIAS Society GOVERNMENT OF ASSAM Assam Rural Infrastructure and Agricultural Services Society		
CONSULTANT :	 Shubh Consultants & Technocrats LLP		
DWG TITLE :	MASTERPLAN LAYOUT OF BURHI BEEL		
DATE :			
CHECKED BY:	SUBMITTED TO:	RECOMMENDED BY:	APPROVED BY:
DATE :	DATE :	DATE :	DATE :
TEAM LEAD	A.E.	E.E.	S.E.

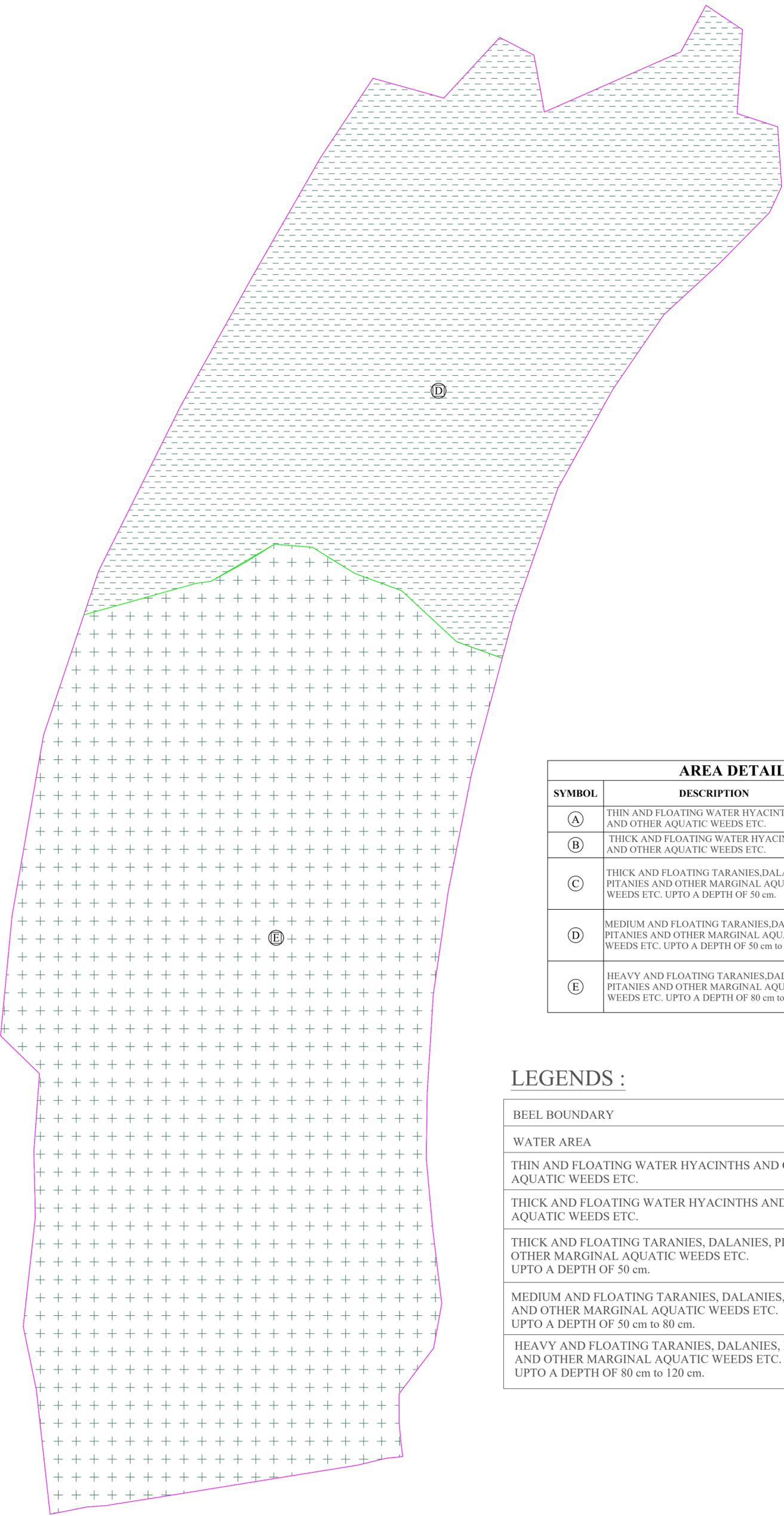
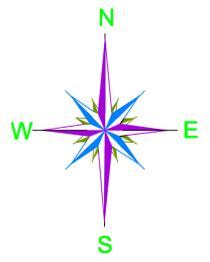
# CONTOUR MAP WITH BATHYMETRIC LEVELS OF BURHI BEEL



## LEGENDS :

BOUNDARY	
ROAD	
BENCH MARK	
CULVERT	
BRIDGE	
WATER SOURCE	
BEEL/ POND	
HOUSES/ BUILDING	
PROP. BUND	

PACKAGE NO.:	02		
NAME OF THE BEEL:	BURHI BEEL		
DEVELOPMENT BLOCK:	MARGHERITA		
REVENUE VILLAGE:	3 No.ALUBARI		
DISTRICT:	TINSUKIA		
AREA (Ha):	23 Ha		
PROJECT TITLE:	Sustainable Wetlands and Integrated Fisheries Transformation (SWIFT) Project		
CLIENT :	 <small>ARIAS Society</small> <small>GOVERNMENT OF ASSAM</small> <small>Assam Rural Infrastructure and Agricultural Services Society</small>		
CONSULTANT :	 <small>Shubh</small> <small>Consultants &amp; Technocrats LLP</small>		
DWG TITLE :	CONTOUR MAP WITH BATHYMETRIC LEVELS OF BURHI BEEL		
DATE :			
CHECKED BY:	SUBMITTED TO:	RECOMMENDED BY:	APPROVED BY:
DATE :	DATE :	DATE :	DATE :
TEAM LEAD	A.E.	E.E.	S.E.



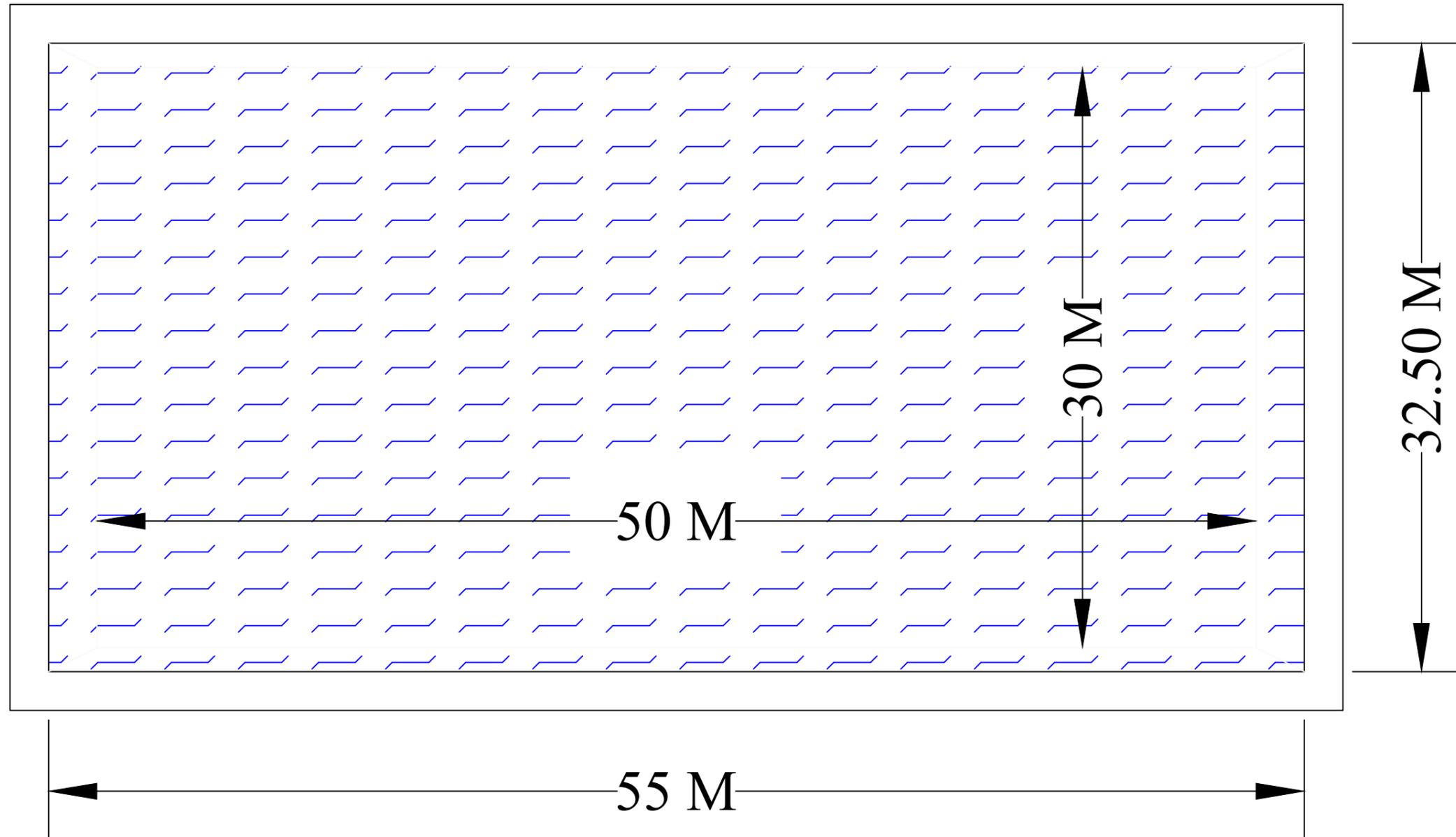
AREA DETAILS		
SYMBOL	DESCRIPTION	AREA (Sq. m)
Ⓐ	THIN AND FLOATING WATER HYACINTHS AND OTHER AQUATIC WEEDS ETC.	0
Ⓑ	THICK AND FLOATING WATER HYACINTHS AND OTHER AQUATIC WEEDS ETC.	0
Ⓒ	THICK AND FLOATING TARANIES, DALANIES, PITANIES AND OTHER MARGINAL AQUATIC WEEDS ETC. UPTO A DEPTH OF 50 cm.	0
Ⓓ	MEDIUM AND FLOATING TARANIES, DALANIES, PITANIES AND OTHER MARGINAL AQUATIC WEEDS ETC. UPTO A DEPTH OF 50 cm to 80 cm	87592
Ⓔ	HEAVY AND FLOATING TARANIES, DALANIES, PITANIES AND OTHER MARGINAL AQUATIC WEEDS ETC. UPTO A DEPTH OF 80 cm to 120 cm	142400

**LEGENDS :**

BEEL BOUNDARY	
WATER AREA	
THIN AND FLOATING WATER HYACINTHS AND OTHER AQUATIC WEEDS ETC.	
THICK AND FLOATING WATER HYACINTHS AND OTHER AQUATIC WEEDS ETC.	
THICK AND FLOATING TARANIES, DALANIES, PITANIES AND OTHER MARGINAL AQUATIC WEEDS ETC. UPTO A DEPTH OF 50 cm.	
MEDIUM AND FLOATING TARANIES, DALANIES, PITANIES AND OTHER MARGINAL AQUATIC WEEDS ETC. UPTO A DEPTH OF 50 cm to 80 cm.	
HEAVY AND FLOATING TARANIES, DALANIES, PITANIES AND OTHER MARGINAL AQUATIC WEEDS ETC. UPTO A DEPTH OF 80 cm to 120 cm.	

PACKAGE NO.:	02		
NAME OF THE BEEL:	BURHI BEEL		
DEVELOPMENT BLOCK:	MARGHERITA		
REVENUE VILLAGE:	3 No. ALUBARI		
DISTRICT:	TINSUKIA		
AREA (Ha):	23 Ha		
PROJECT TITLE:	Sustainable Wetlands and Integrated Fisheries Transformation (SWIFT) Project		
CLIENT :			
CONSULTANT :			
DWG TITLE :	MASTERPLAN LAYOUT OF BURHI BEEL		
DATE :			
CHECKED BY:	SUBMITTED TO:	RECOMMENDED BY:	APPROVED BY:
DATE :	DATE :	DATE :	DATE :
TEAM LEAD	A.E.	E.E.	S.E.

# TYPICAL PLAN & SECTION OF REARING TANK



**PLAN**



**SECTION**

SCALE: NOT TO SCALE

PROJECT TITLE:  
Sustainable Wetlands and Integrated Fisheries Transformation (SWIFT) Project

CLIENT :   
ARIAS Society  
GOVERNMENT OF ASSAM  
Assam Rural Infrastructure and Agricultural Service Society

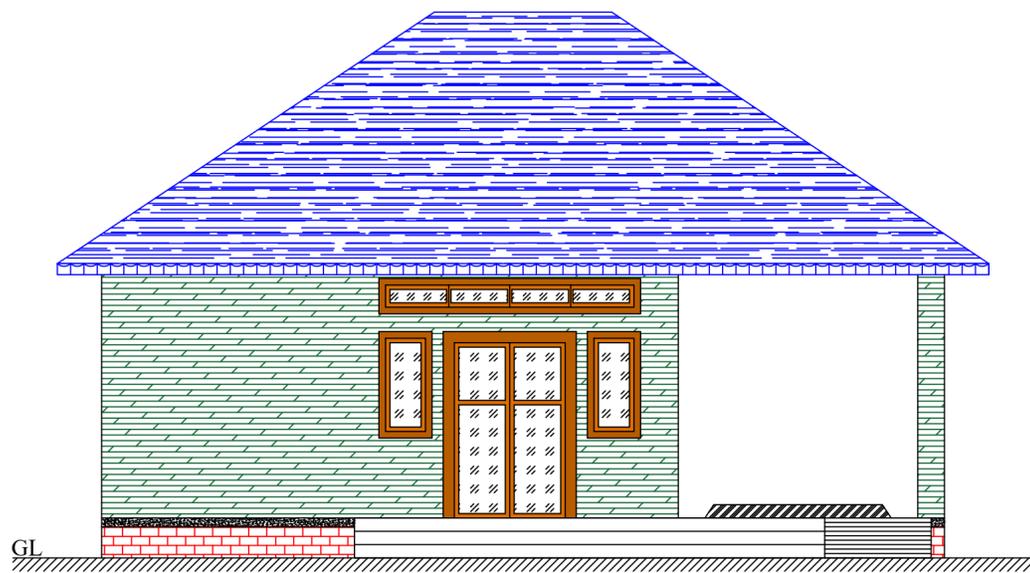
CONSULTANT :   
Shubh  
Consultants & Technocrats LLP

DWG TITLE :  
TYPICAL PLAN & SECTION OF REARING TANK OF 1500 SQM

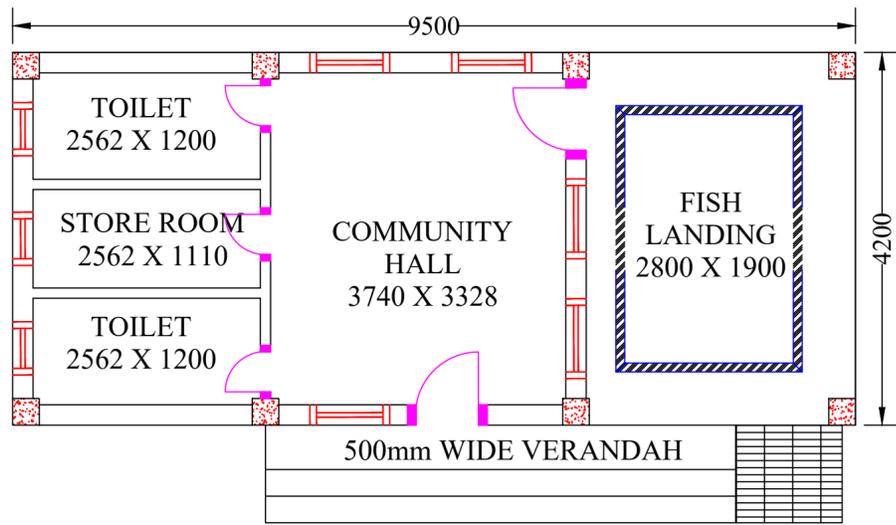
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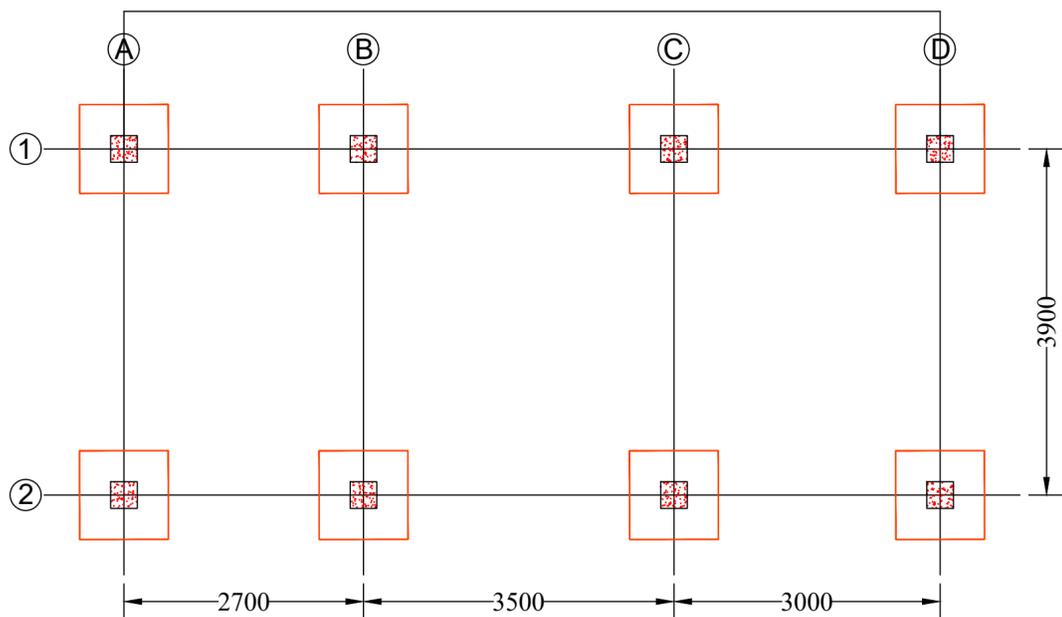
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TEAM LEAD	A.E.	E.E.	S.E.



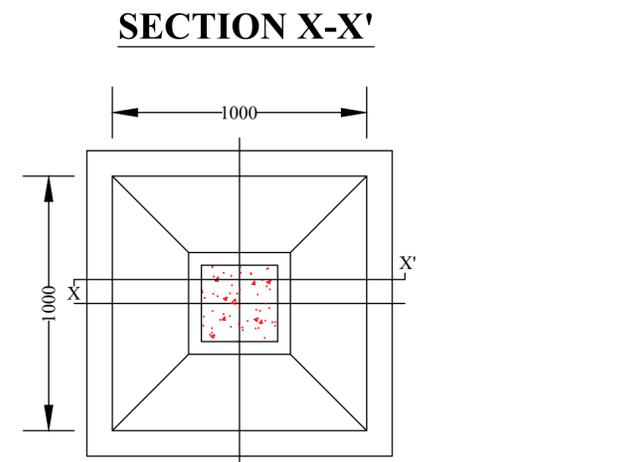
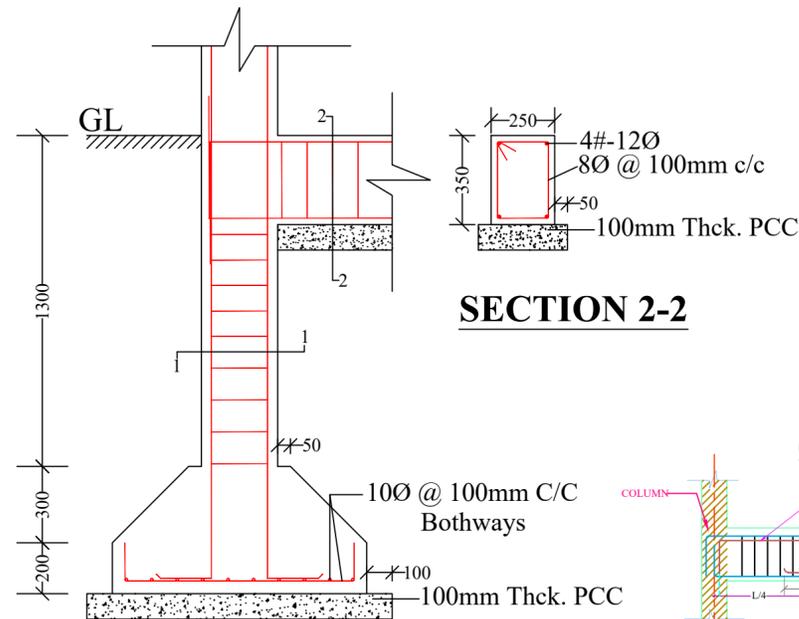
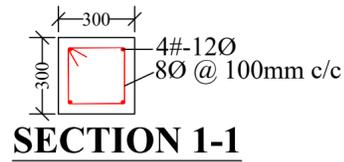
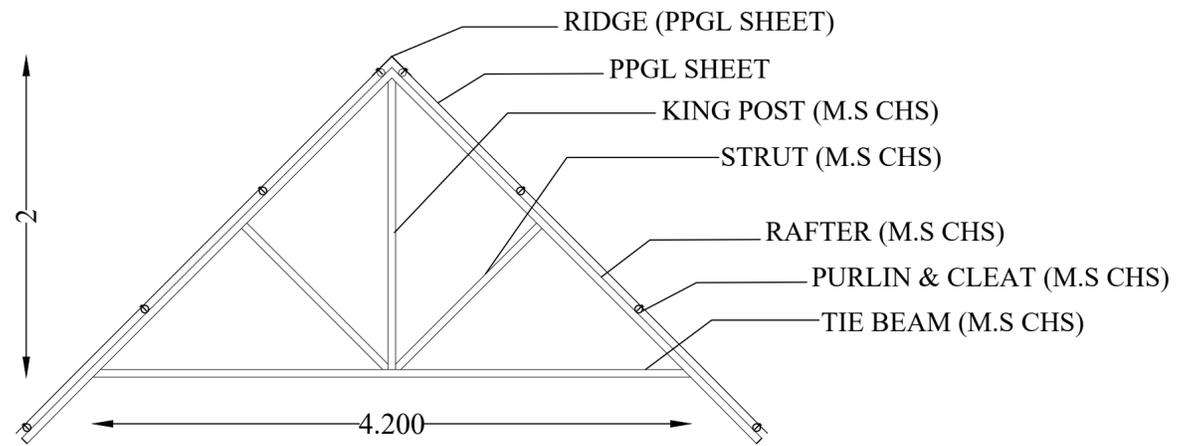
**FRONT ELEVATION**



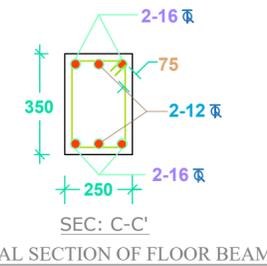
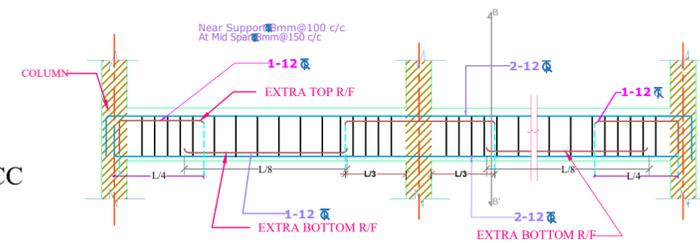
**PLAN**



**FOOTING LAYOUT**



**FOOTING PLAN**



**NOTES :**

1. All dimensions are in millimetres.
2. All dimensions are to be read and not to be scaled.
3. Grade of Concrete used : M-20.
4. Grade of Steel Reinf. used : TMT (Grade-500)
5. Clear cover for reinf. bars :
  - i) In Foundations - 50 mm.
  - ii) In Columns - 40 mm.
  - iii) In Beams - 25 mm.
  - iv) In Slabs - 20 mm.
6. Not more than one third of the total number of main bars shall be over-lapped at any section of a column.
7. Laps, anchorage of reinf. bars shall be as per I.S.456-2000.
8. Maximum size of Coarse Aggregate shall be 20 mm and down graded.
9. Aggregate shall comply with the requirements of I.S.:383-1970.
10. Lap / Development length = 50 x 'd' where, 'd' = diameter of reinforcing bar.
11. In addition to Lintels, R.C.C. band at sill level should also be provided.
12. Use R.C.C. bands also in all vertical sides of openings.
13. Protruding rods to be provided in columns for embedding all brick walls.
14. Joints between walls & beams may be embedded with epoxy based joint filling compounds.
15. All Reinforcement detailing should meet all the general requirements of IS:4326 and IS:13920.
16. Dimensions shall be in conjunction with Architectural drawings. Architectural drawings shall be followed in the event of any discrepancy with due regard to the Structural requirements. Any major deviations shall be brought to the notice of the Engineer-in-charge.

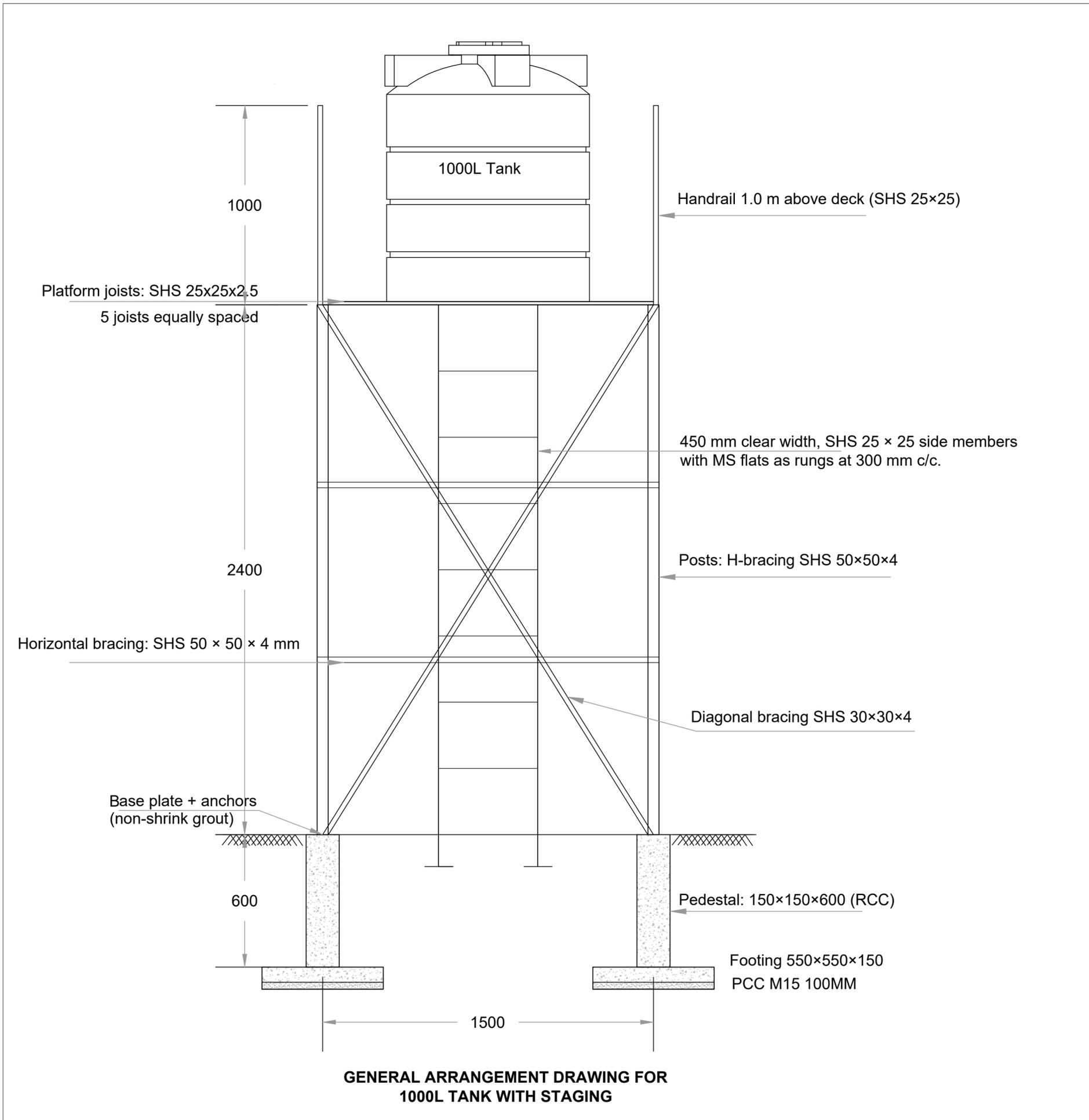
**SCALE: NOT TO SCALE**

**PROJECT TITLE:**  
Sustainable Wetlands and Integrated Fisheries Transformation (SWIFT) Project



**DWG TITLE :** **STANDARD DRAWING**  
PLAN & CROSS-SECTION  
OF FISH LANDING SHED CUM  
COMMUNITY CENTRE

<b>DATE :</b>				
<b>CHECKED BY:</b>	<b>SUBMITTED TO:</b>	<b>RECOMMENDED BY:</b>	<b>APPROVED BY:</b>	
<b>DATE :</b>	<b>DATE :</b>	<b>DATE :</b>	<b>DATE :</b>	
<b>TEAM LEAD</b>	<b>A.E.</b>	<b>E.E.</b>	<b>S.E.</b>	



**GENERAL NOTES –**

**Drawing Basis**

- All dimensions are in millimetres (mm) unless otherwise stated.
- Dimensions shall be verified on site prior to construction; discrepancies to be reported to Engineer-in-Charge.

**Concrete Works**

- Footing: 550 x 550 x 150 RCC M20 (IS 456, IS 3370).
- Pedestal: 150 x 150 x 600 RCC above footing.
- Provide PCC 1:5:10, 100 mm thick blinding below footings (recommended).
- All reinforcement Fe-500D TMT; cover to reinforcement = 40 mm (footings/pedestals).

**Steel Works**

- Main posts: SHS 50 x 50 x 4 mm.
- Horizontal bracing: SHS 50 x 50 x 4 mm (at two intermediate levels).
- Diagonal bracing: SHS 30 x 30 x 4 mm.
- Platform joists: 5 nos. SHS 25 x 25 x 2.5 mm at equal spacing.
- Handrail: SHS 25 x 25 x 2.5 mm, 1.0 m high above deck.
- Ladder: 450 mm clear width, SHS 25 x 25 side members with MS flats as rungs at 300 mm c/c.
- All steel to conform to IS 2062; fabrication as per IS 800.

**Connections & Base Plates**

- Provide MS base plates (10 mm thick) at post bottoms, anchored into pedestal with 4 nos. 16 mm dia foundation bolts, grouted with non-shrink grout.
- Provide stiffener cleats, gusset plates, and welds as per design.
- All bolts/welds to conform to IS 1367/IS 816.

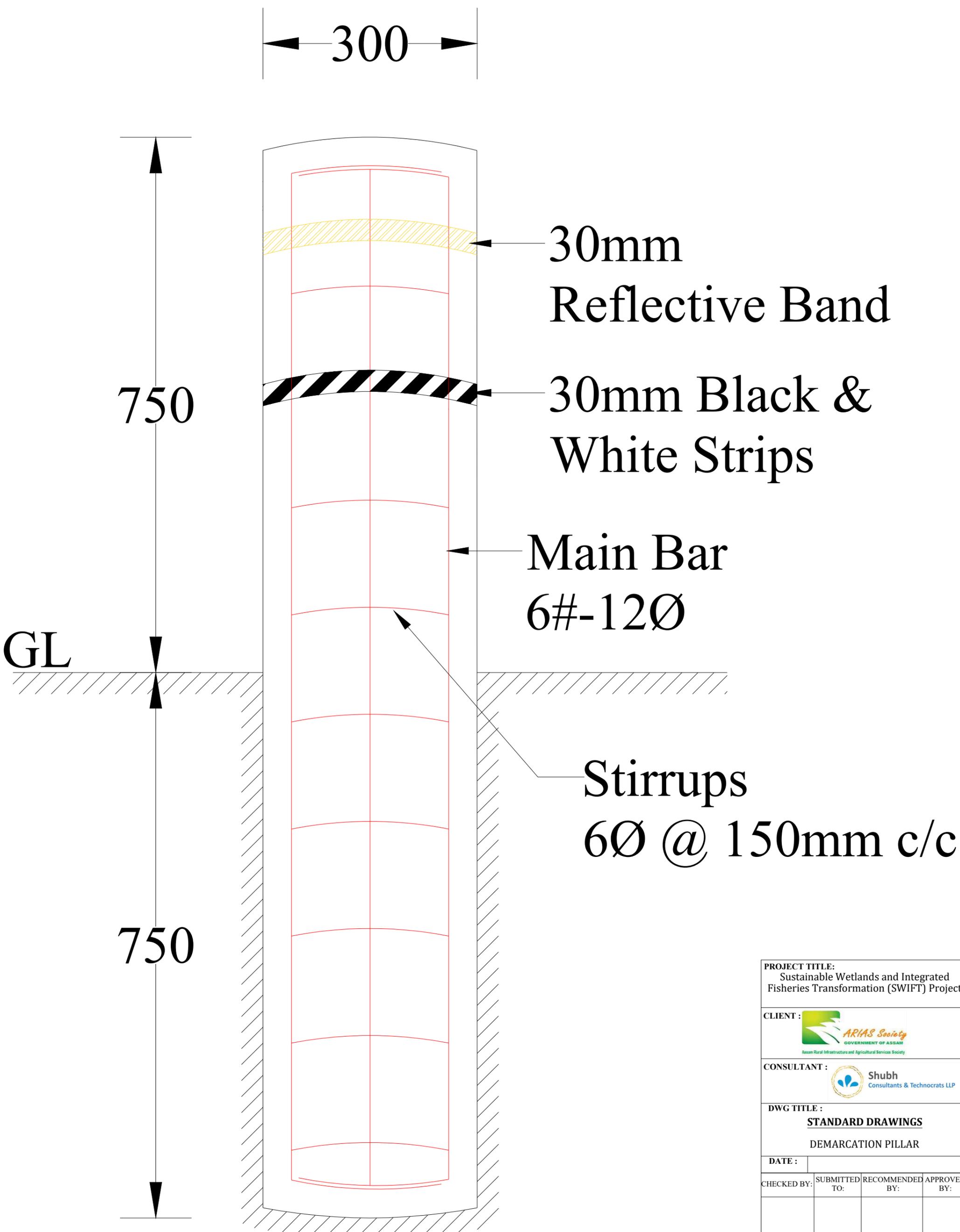
**Corrosion Protection & Painting**

- Structural steel to receive one coat zinc-rich primer + 2 coats epoxy/polyurethane paint (minimum 100 microns DFT).
- Alternatively, all steel members may be hot-dip galvanized (minimum 80 microns zinc coating).

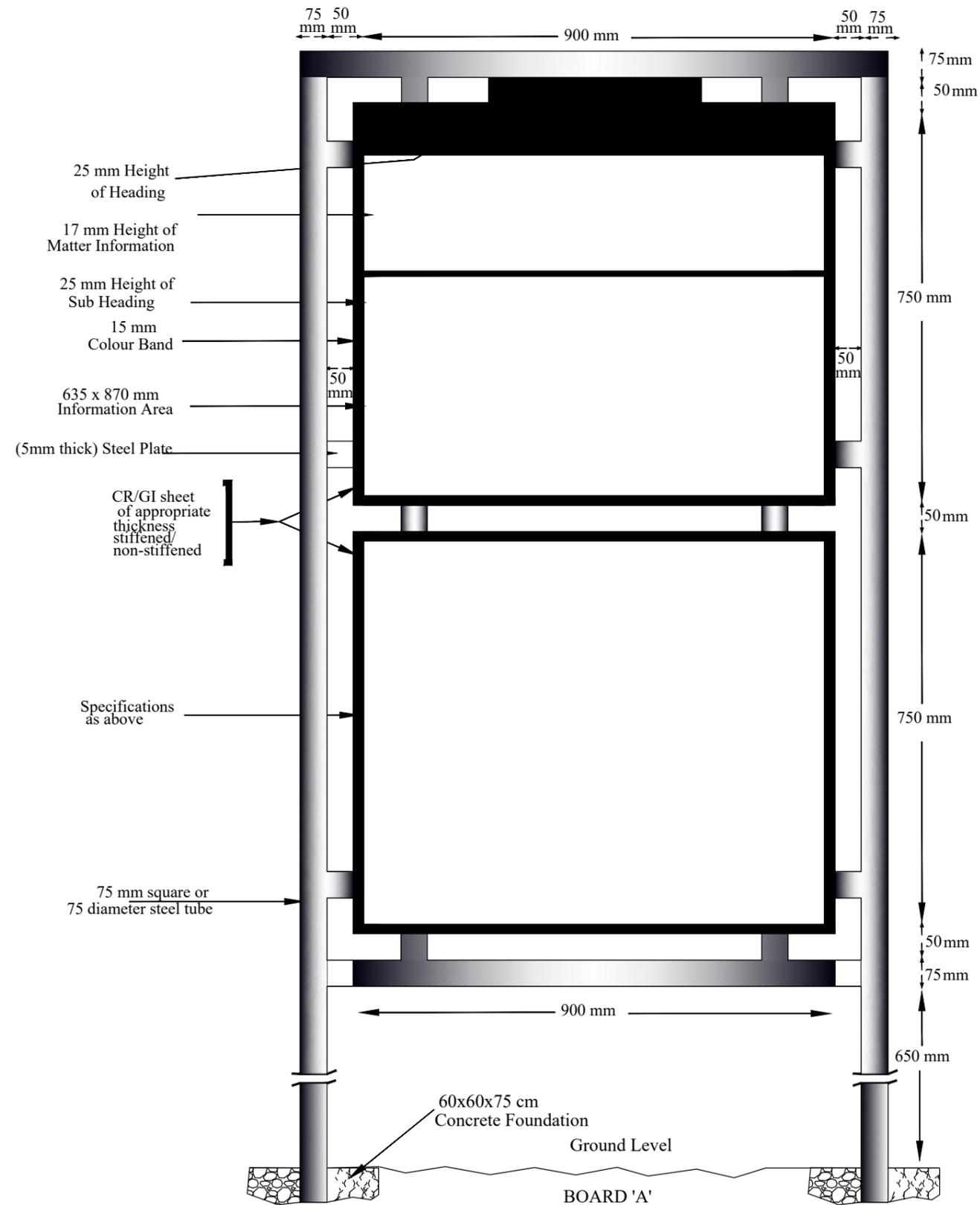
**Tank & Plumbing**

- Water tank: 1,000 litres capacity, IS 12701 marked, provided with cover and locking arrangement.

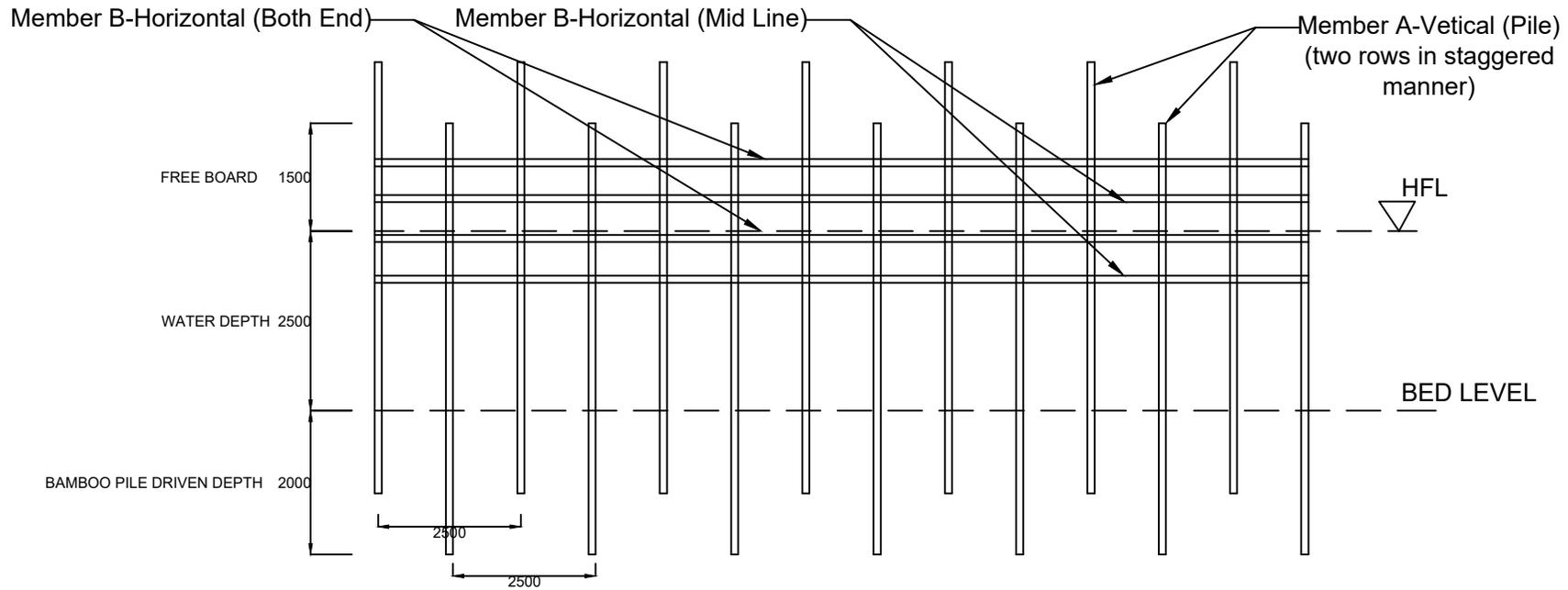
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Sustainable Wetlands and Integrated Fisheries Transformation (SWIFT) Project			
<b>CLIENT :</b> ARIAS SOCIETY			
<b>CONSULTANT :</b> SHUBH CONSULTANTS AND TECHNOCRATS LLP			
<b>DWG TITLE :</b>			
STANDARD DRAWING			
1000L TANK WITH STAGING			
<b>DATE :</b>			
<b>CHECKED BY:</b>	<b>SUBMITTED TO:</b>	<b>RECOMMENDED BY:</b>	<b>APPROVED BY:</b>
<b>TEAM LEAD</b>	A.E.	E.E.	S.E.



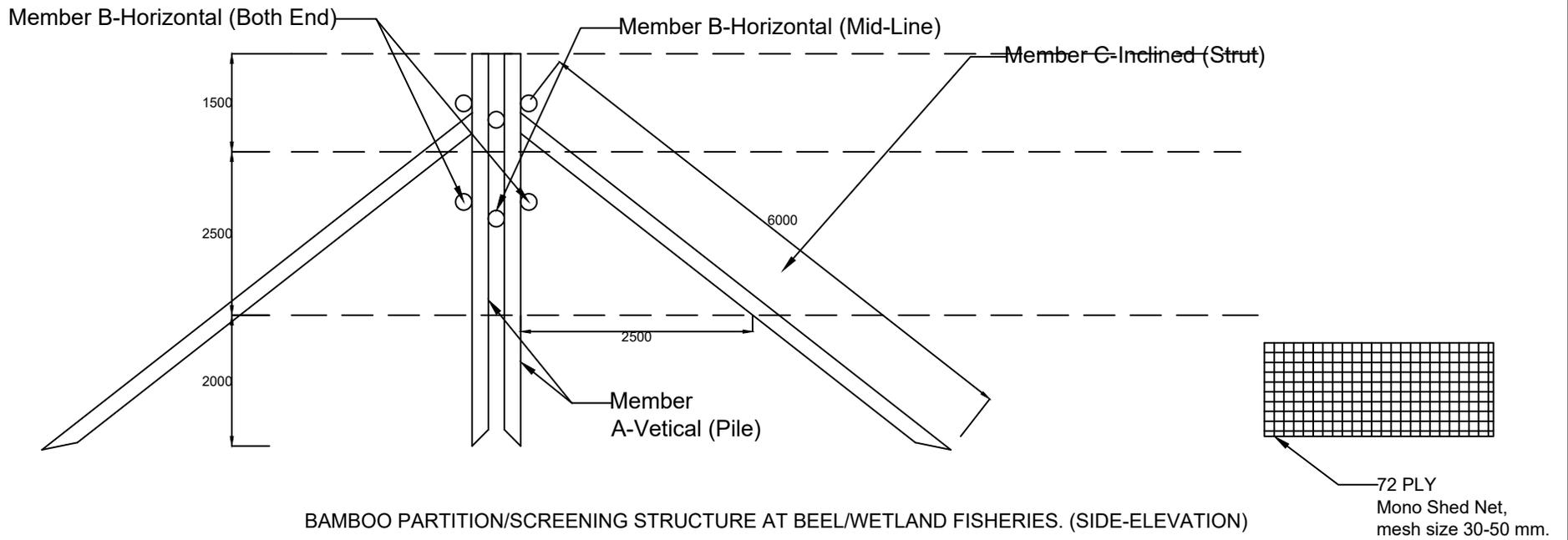
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<b>CLIENT :</b>  ARIAS Society GOVERNMENT OF ASSAM Assam Rural Infrastructure and Agricultural Services Society			
<b>CONSULTANT :</b>  Shubh Consultants & Technocrats LLP			
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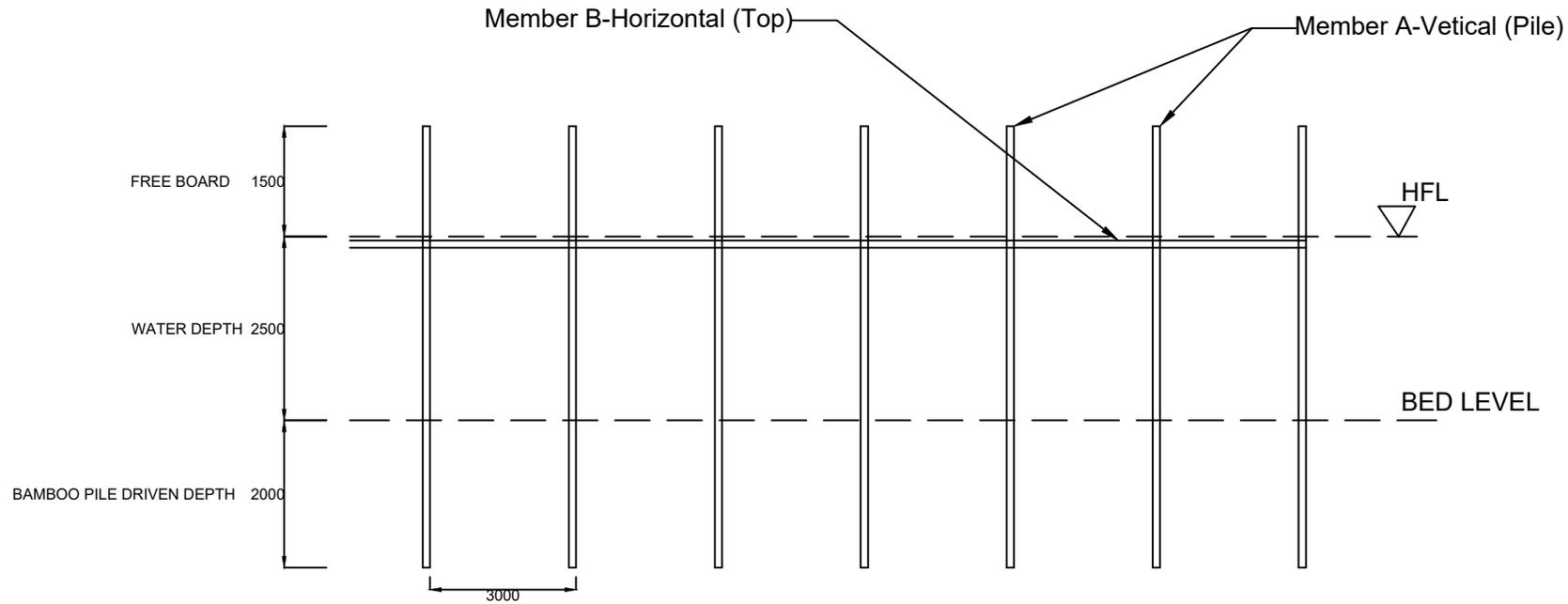
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CLIENT : ARIAS SOCIETY			
CONSULTANT : SHUBH CONSULTANTS AND TECHNOCRATS LLP			
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TEAM LEAD	A.E.	E.E.	S.E.



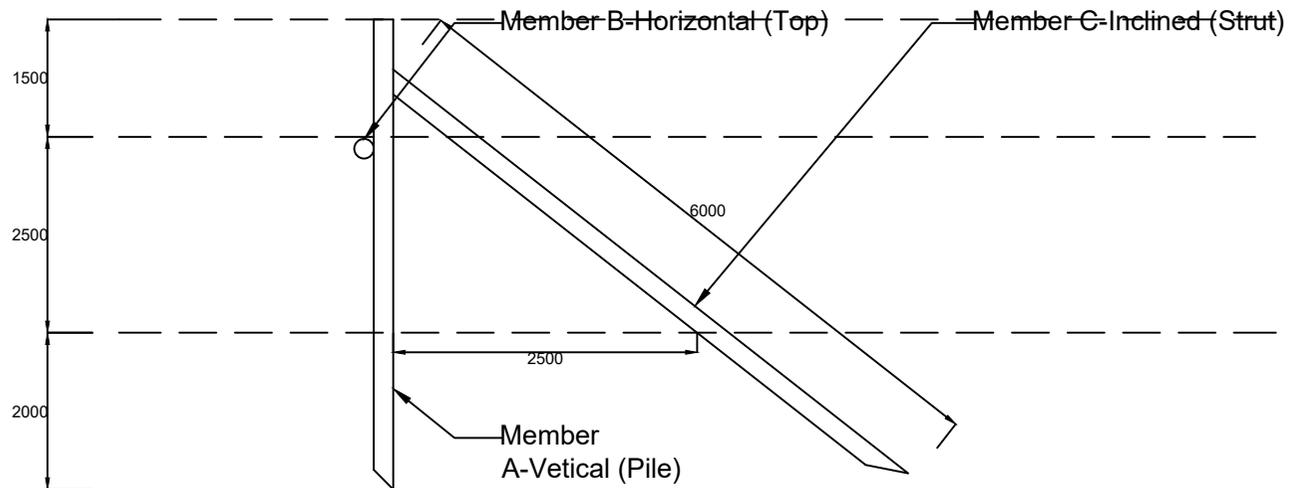
BAMBOO PARTITION/SCREENING STRUCTURE AT BEEL/WETLAND FISHERIES. (FRONT-ELEVATION)



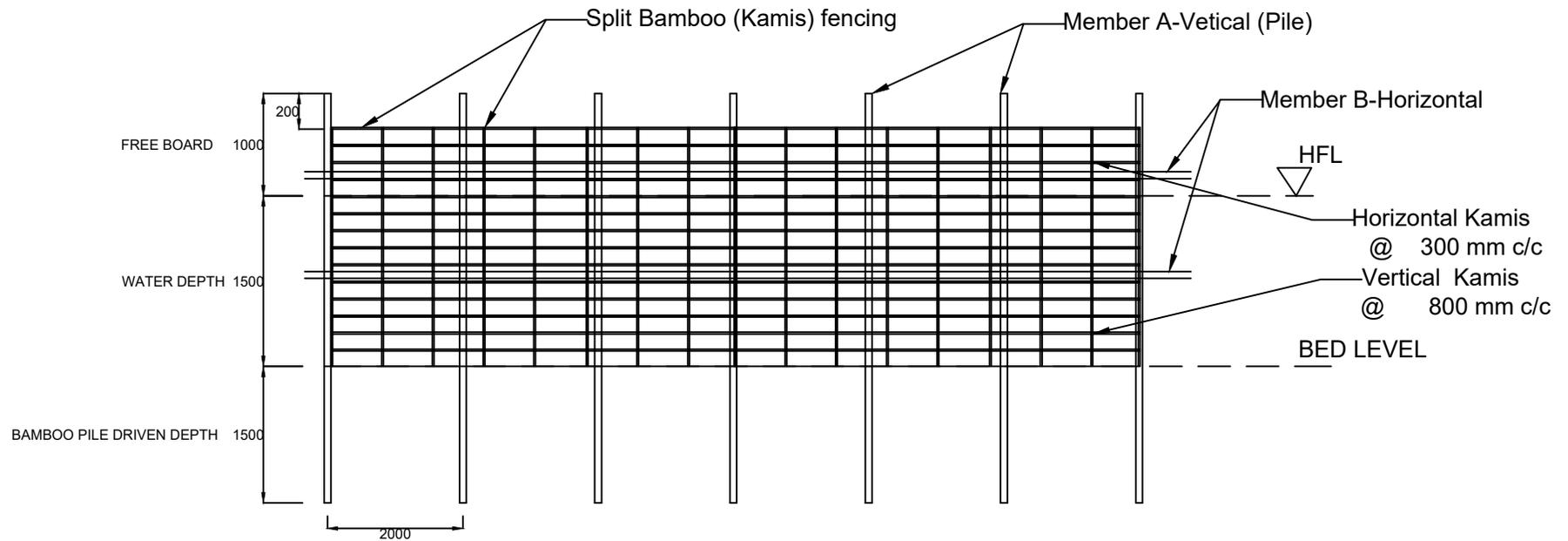
BAMBOO PARTITION/SCREENING STRUCTURE AT BEEL/WETLAND FISHERIES. (SIDE-ELEVATION)



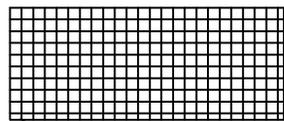
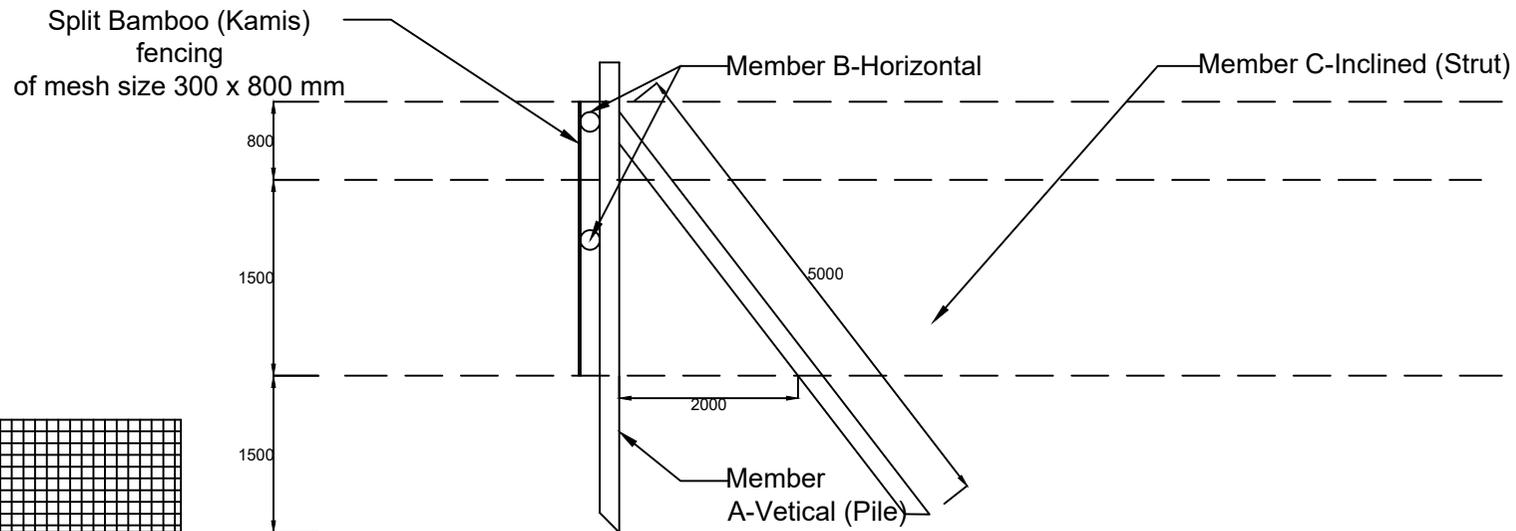
KATAL/CATTLE FISHING STRUCTURE AT BEEL/WETLAND FISHERIES. (FRONT-ELEVATION)



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



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



115 GSM Mono Shed Net, mesh size 3-5 mm.

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