

**PROPOSED INTERVENTIONS**

| SI | Interventions / Items   | Qty            |
|----|---|----------------|
| 1  | De-Weeding  | 109100 Sqm     |
| 2  | De-Silting  | 18608 Cum      |
| 3  | Peripheral Bund   | 576 meter      |
| 4  | H P Laying – 600 φ  | 2 nos          |
| 5  | Demarcation Pillar  | 51 nos         |
| 6  | Rearing Tank – 0.15 ha each   | 4 nos          |
| 7  | Stocking Tank – 0.40 ha each  | 3 nos          |
| 8  | <b>Pen Culture</b><br>Rearing Pen – 0.20 ha each<br>Stocking Pen - 0.40 ha each | 1 nos<br>2 nos |
| 9  | Katal/Jeng - 0.2 ha each  | 2 nos          |
| 10 | Bamboo Barricade  | 55 meter       |
| 10 | Community Hall cum Wetland Information Centre                                   | 202.09 Sqm PA  |
| 11 | Fish Landing Structure  | 66.93 Sqm PA   |
| 12 | Solar Lamp  | 15 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:** Sara Beel

**Development Block :** Raha

**Revenue Village :** Pachim Salmara

**District :** Nagaon

**Lat/Long-**26.262385, 92.563451

**Beel Area :** 12.13 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 SARA BEEL

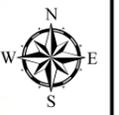
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|------|------------|--------------|----------------|-------------|
|      |            |              |                |             |
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|      |            |              |                |             |

92°33'50"E

92°34'0"E

92°34'10"E

92°34'20"E



# DRONE IMAGE OF SARA BEEL, NAGAON

26°15'40"N

26°15'40"N

26°15'30"N

26°15'30"N



0 30 60 120 180 240 Meters

160

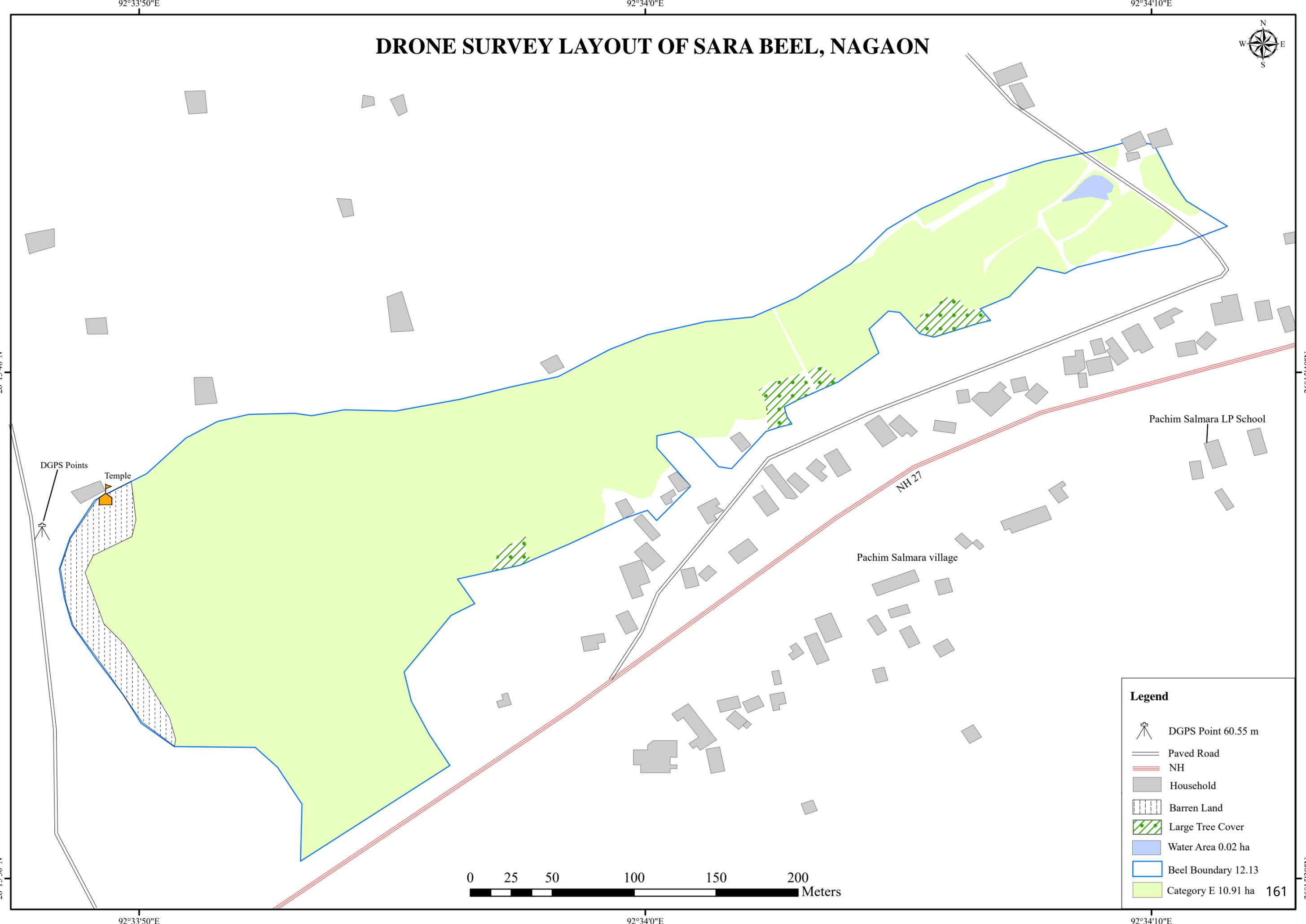
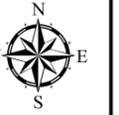
92°33'50"E

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92°34'10"E

92°34'20"E

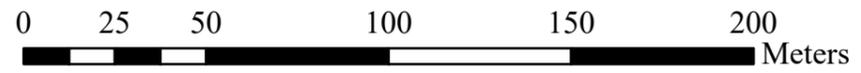
# DRONE SURVEY LAYOUT OF SARA BEEL, NAGAON



**Legend**

- DGPS Point 60.55 m
- Paved Road
- NH
- Household
- Barren Land
- Large Tree Cover
- Water Area 0.02 ha
- Beel Boundary 12.13
- Category E 10.91 ha

161

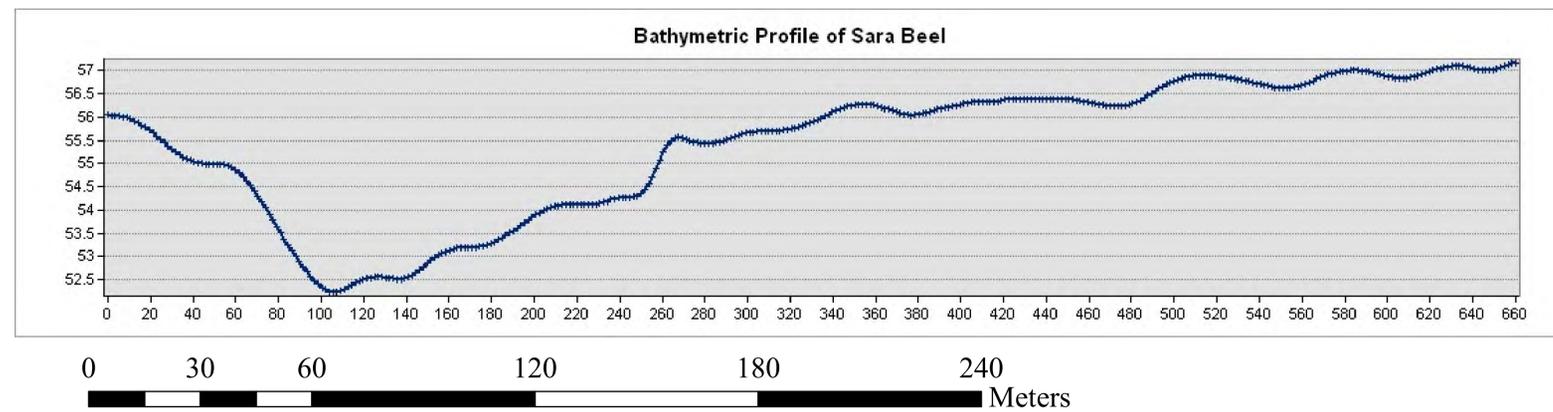
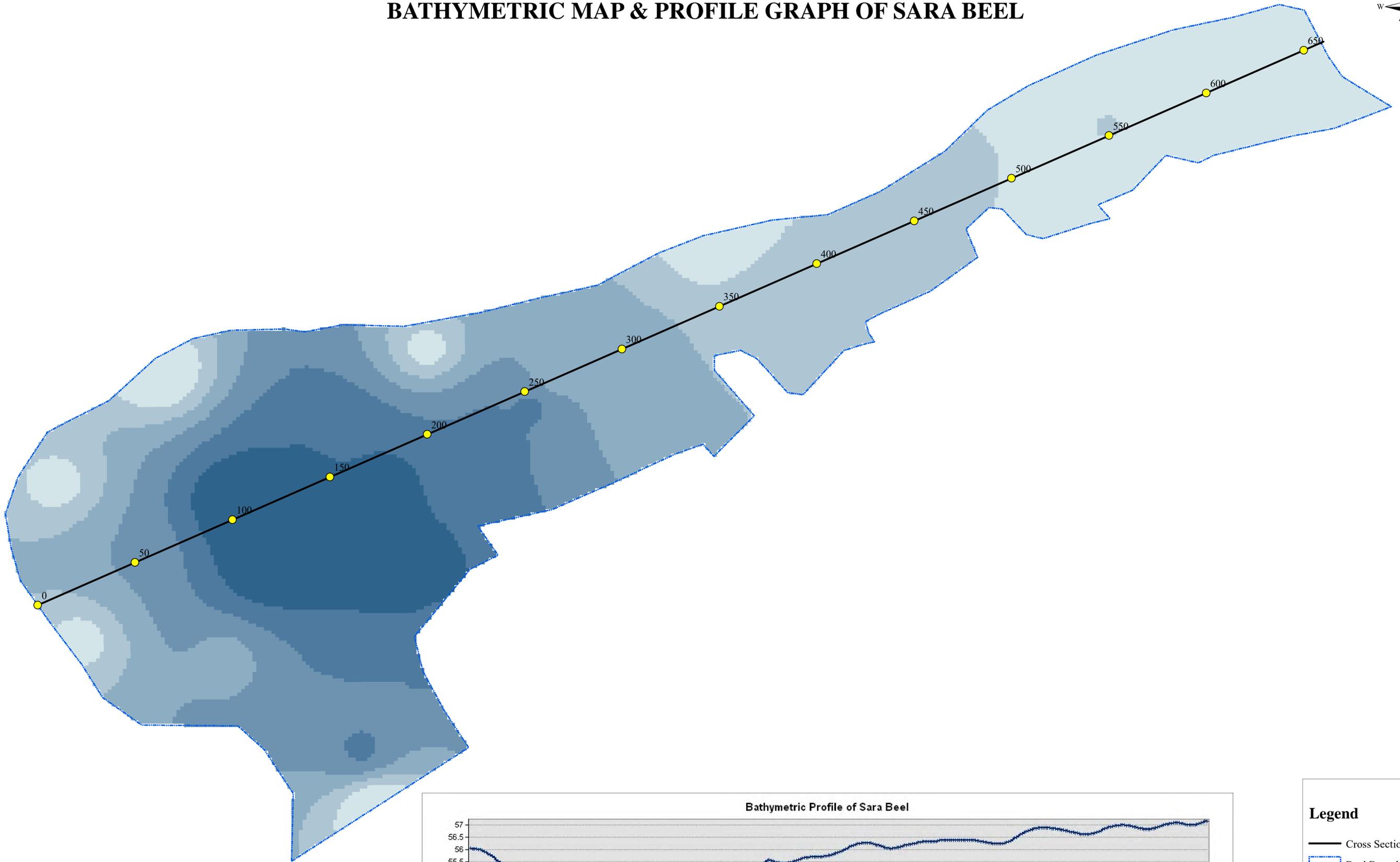


92°33'50"E

92°34'0"E

92°34'10"E

# BATHYMETRIC MAP & PROFILE GRAPH OF SARA BEEL



## Legend

- Cross Section
- Beel Boundary
- 52 - 53.27
- 53.28 - 54.16
- 54.17 - 55.04
- 55.05 - 55.86
- 55.87 - 56.63
- 56.64 - 58

26°15'40"N

26°15'40"N

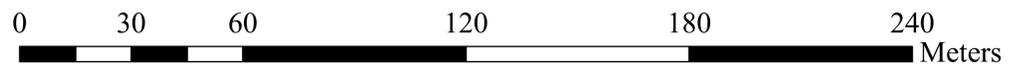
26°15'30"N

26°15'30"N

92°33'50"E

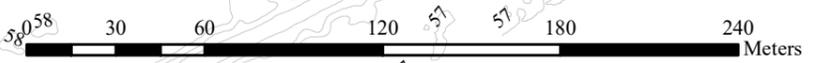
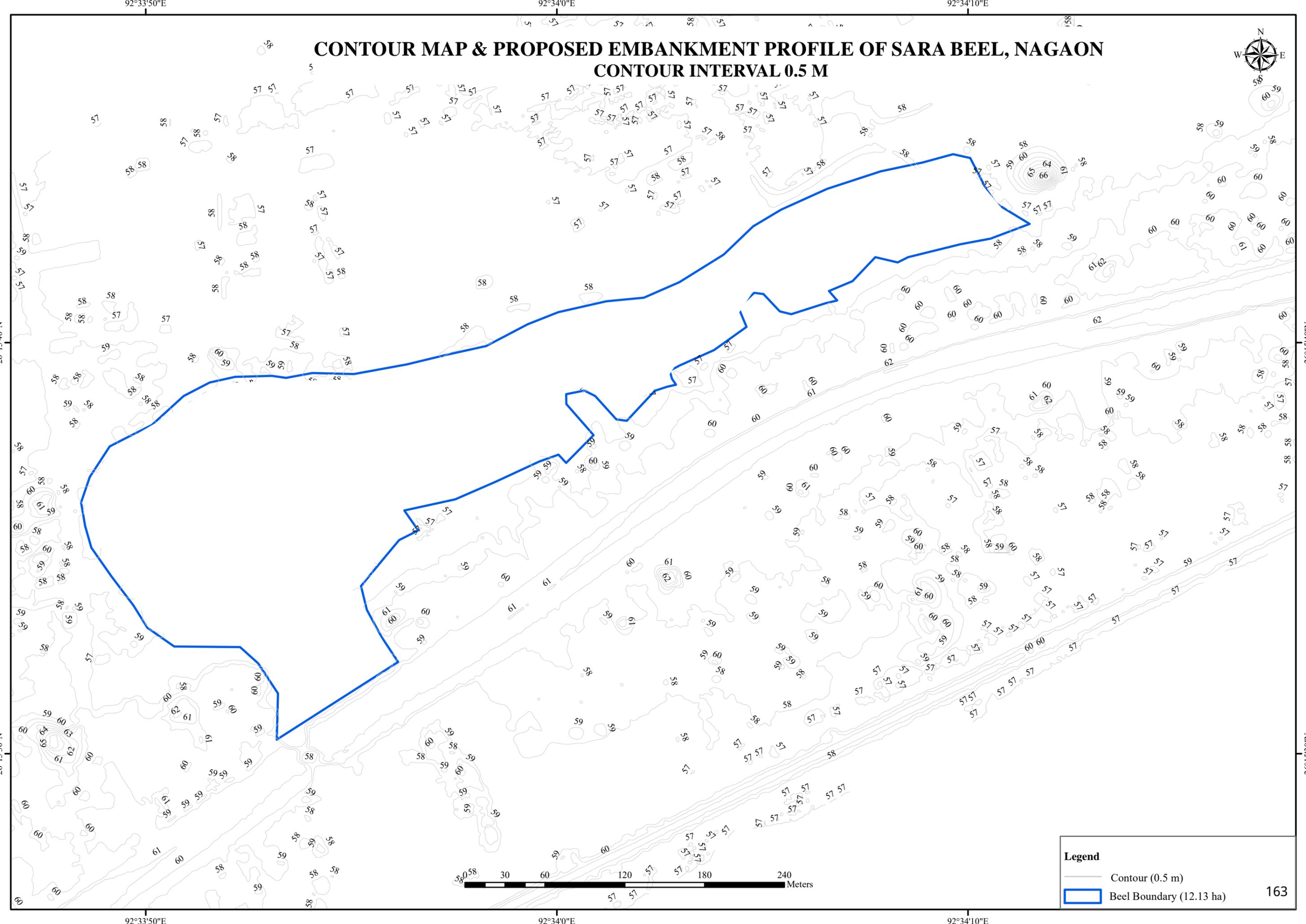
92°34'0"E

92°34'10"E



# CONTOUR MAP & PROPOSED EMBANKMENT PROFILE OF SARA BEEL, NAGAON

## CONTOUR INTERVAL 0.5 M



**Legend**

- Contour (0.5 m)
- Beel Boundary (12.13 ha)

163

92°33'50"E

92°34'0"E

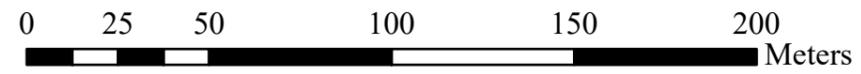
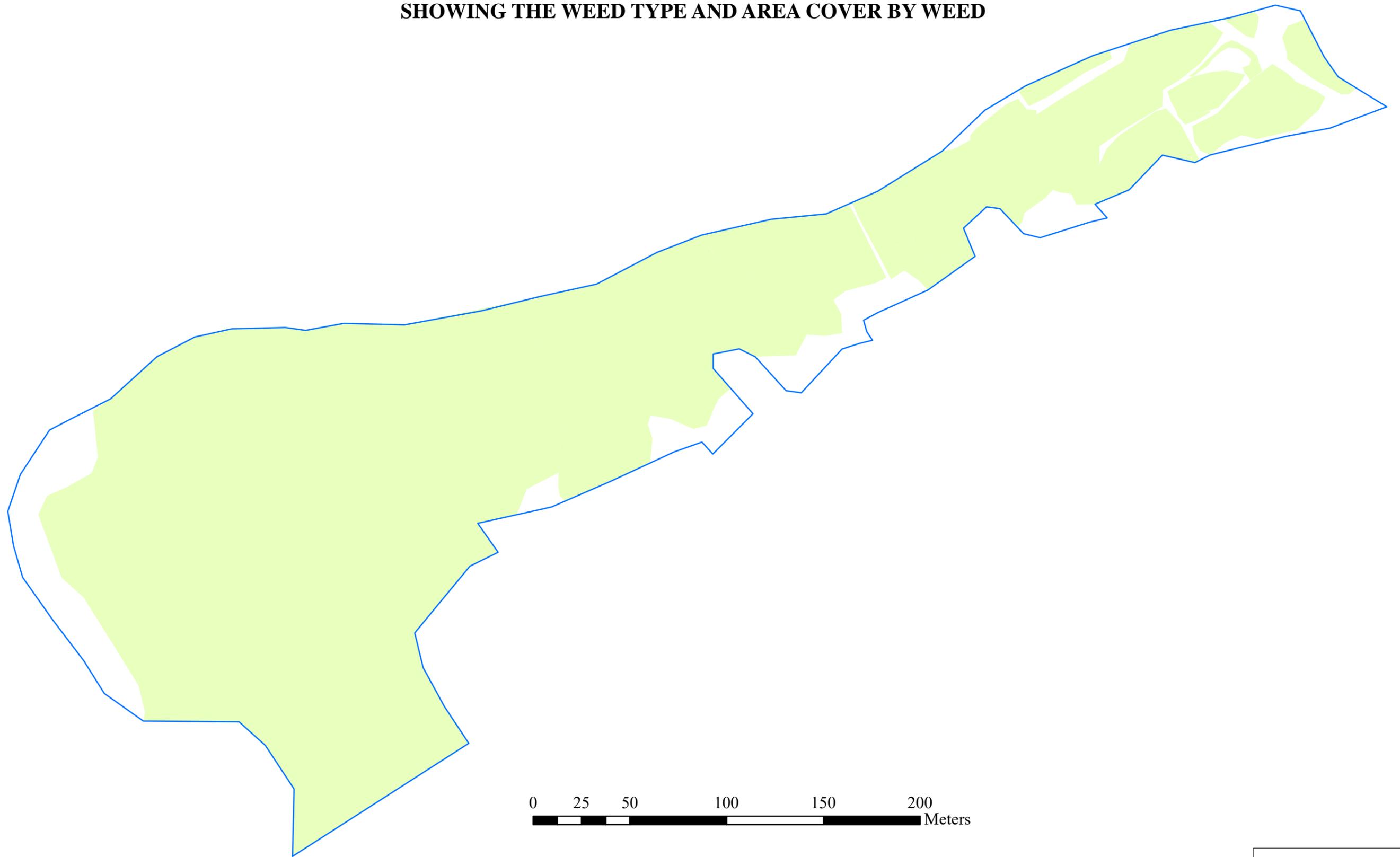
92°34'10"E

# WEED INFESTED MAP OF SARA BEEL, NAGON SHOWING THE WEED TYPE AND AREA COVER BY WEED



26°15'40"N

26°15'40"N



| Weed Category | Type   | Area in sqm | Area to be De-weeded |
|---------------|--|-------------|----------------------|
| E             | Heavy and floating Taranies, Dalanies, Pitannies and other marginal aquatic weeds etc. upto a depth of 80 cm to 120 cm | 109100      | 98190                |

**Legend**

 Beel Boundary 12.13

Weed Category

 Category E 10.91 ha **164**

26°15'30"N

26°15'30"N

92°33'50"E

92°34'0"E

92°34'10"E

# BENEFICIARY HOUSEHOLD MAP OF SARA BEEL, NAGAON



26°16'30"N

26°16'00"N

26°15'30"N

26°15'00"N

92°33'0"E

92°33'30"E

92°34'0"E

92°34'30"E

92°33'0"E

92°33'30"E

92°34'0"E

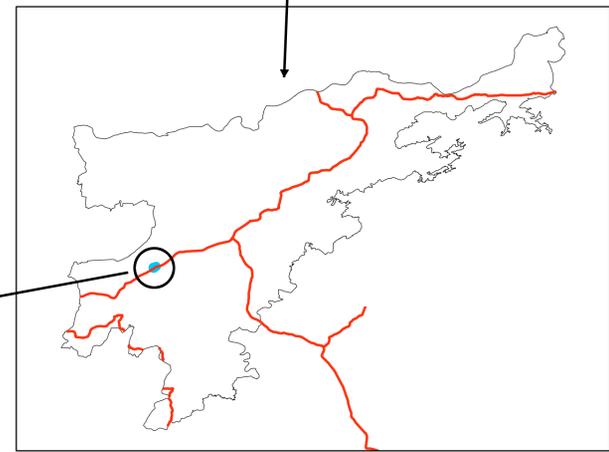
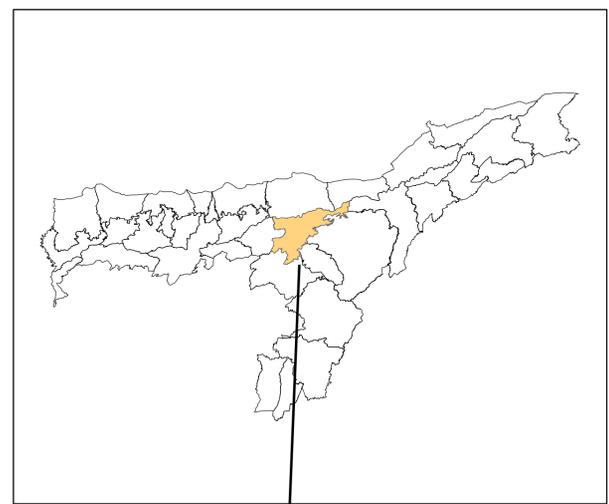
92°34'30"E

26°16'30"N

26°16'00"N

26°15'30"N

26°15'00"N



*Important Note-  
This wetland directly sustains the livelihoods of about 150 families, while providing indirect benefits to approximately 500 families in the surrounding communities.*

## Legend

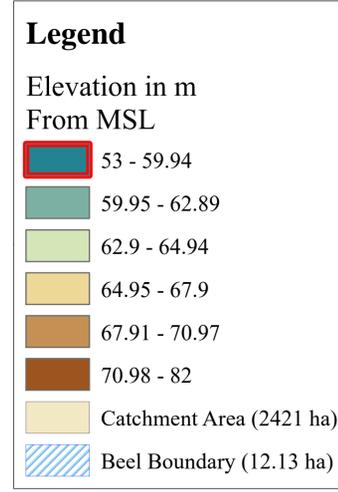
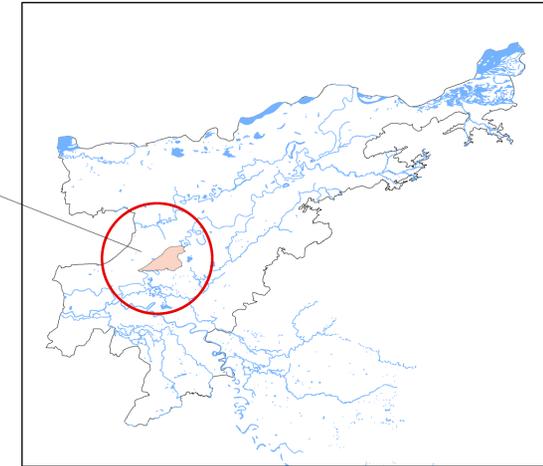
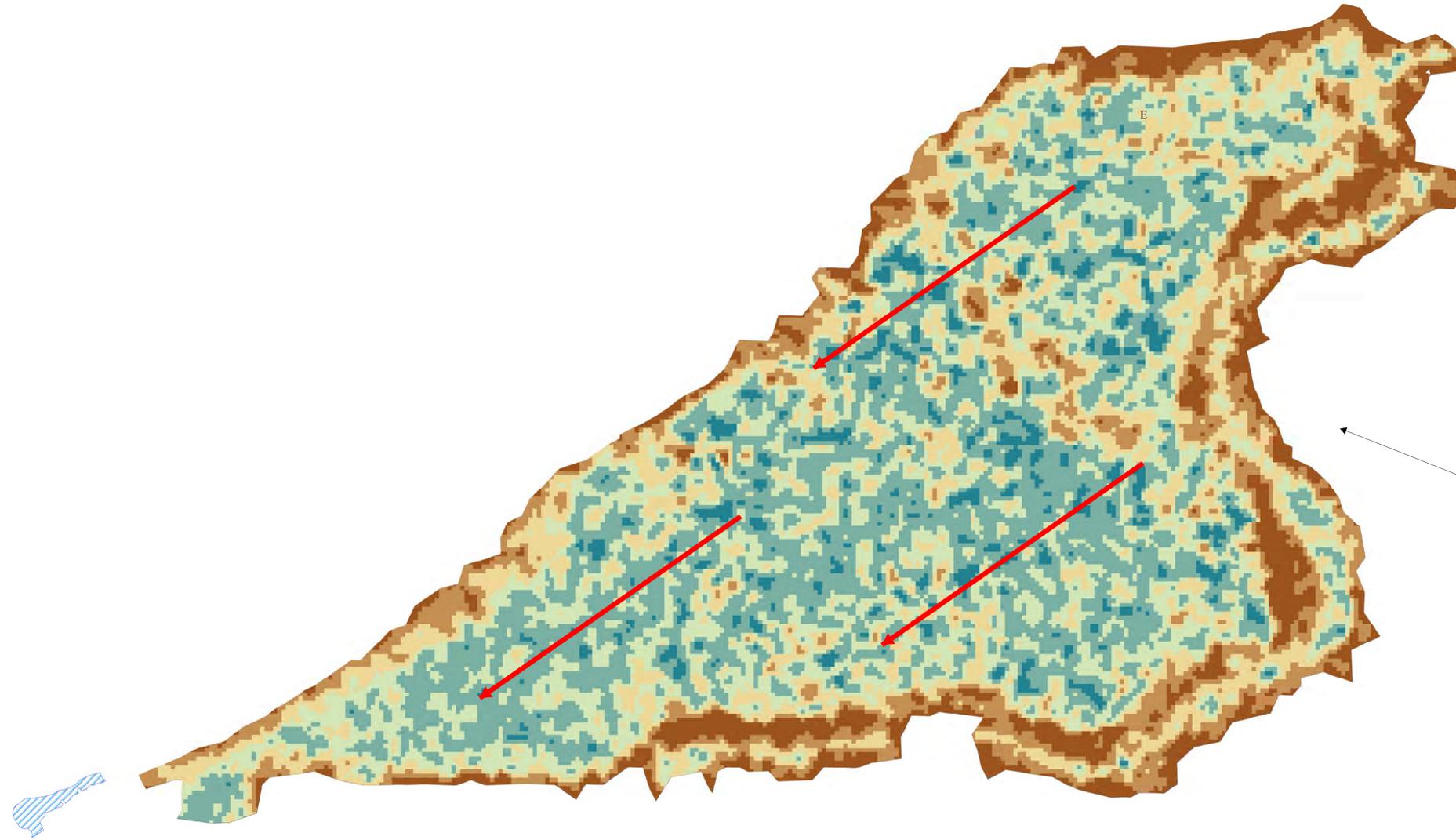
- Paved Roads
- Railway
- NH
- Household
- Beel Boundary

0 120 240 480 720 960 Meters

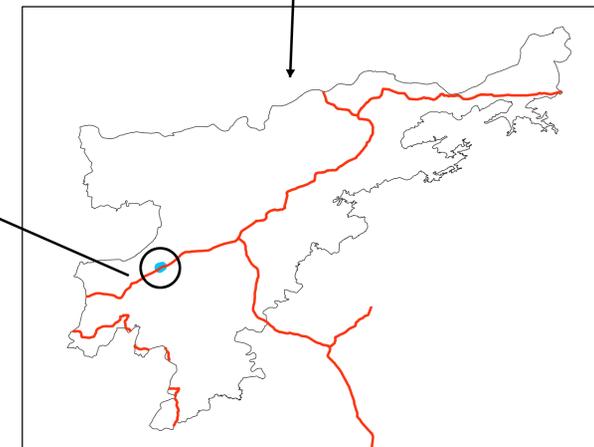
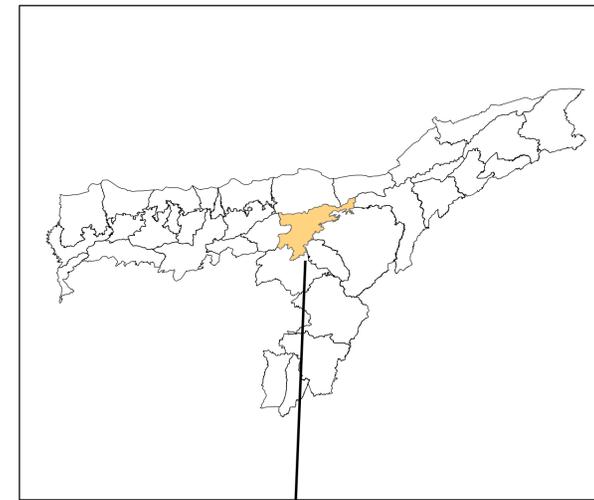
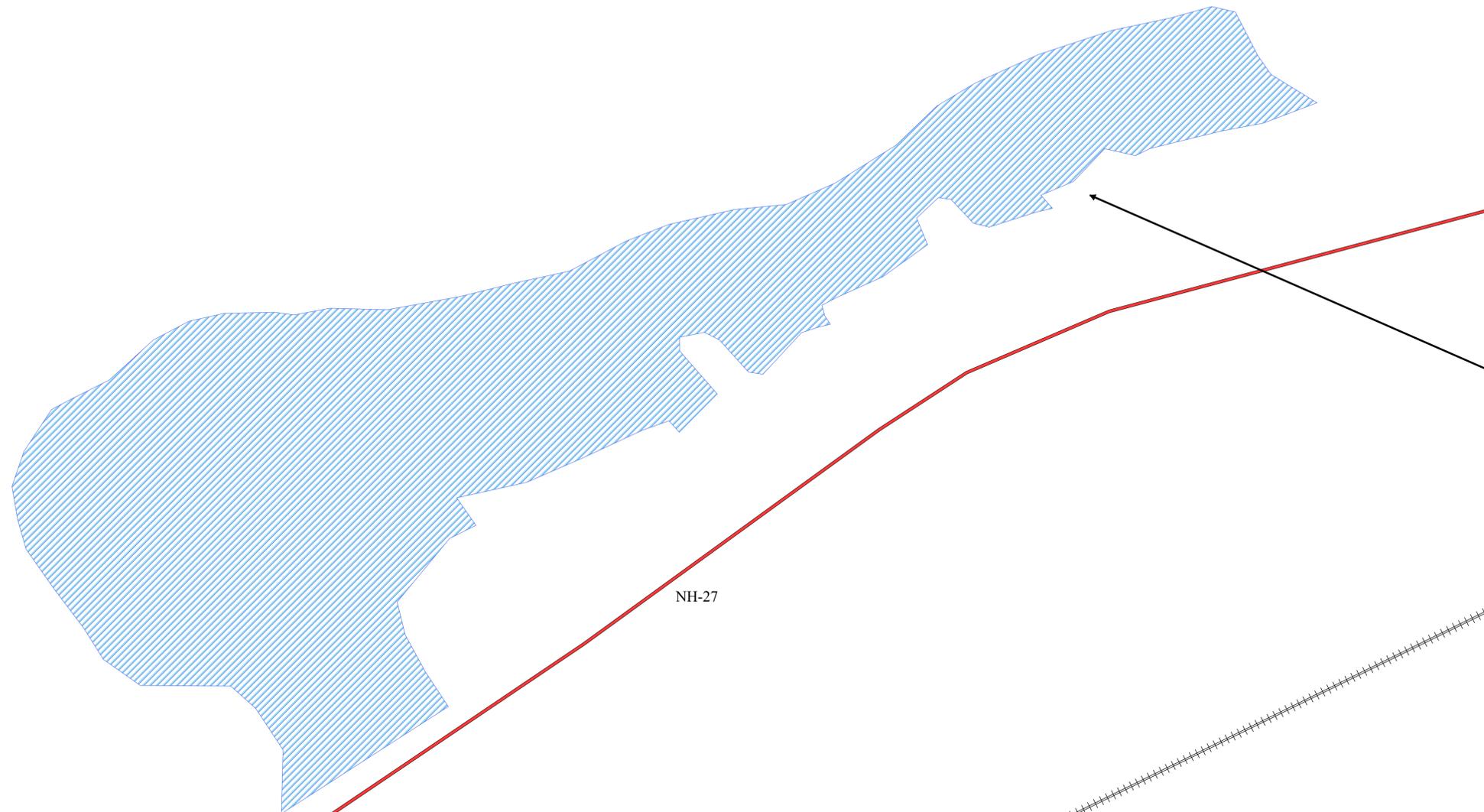
# CATCHMENT AREA OF SARA BEEL, NAGAON



Catchment analysis of the Sara Beel in Nagaon 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 2421 ha 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.



# LOCATIONAL MAP OF SARA BEEL, NAGAON



26°15'30"N

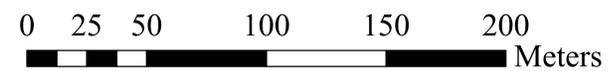
26°15'30"N

92°34'0"E

92°34'0"E

NH-27

Railway



## Legend

Lat-26.262385  
Long-92.563451  
Lat-26.258428  
Long-92.569861

+++++ Railway

— NH

▨ Beel Boundary





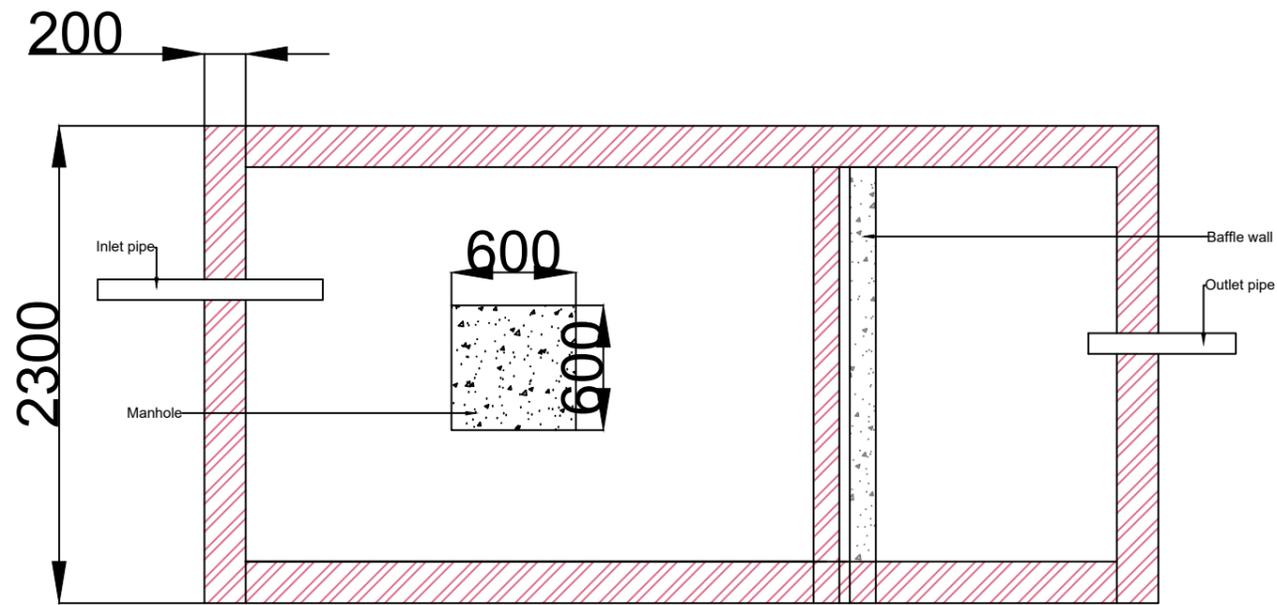




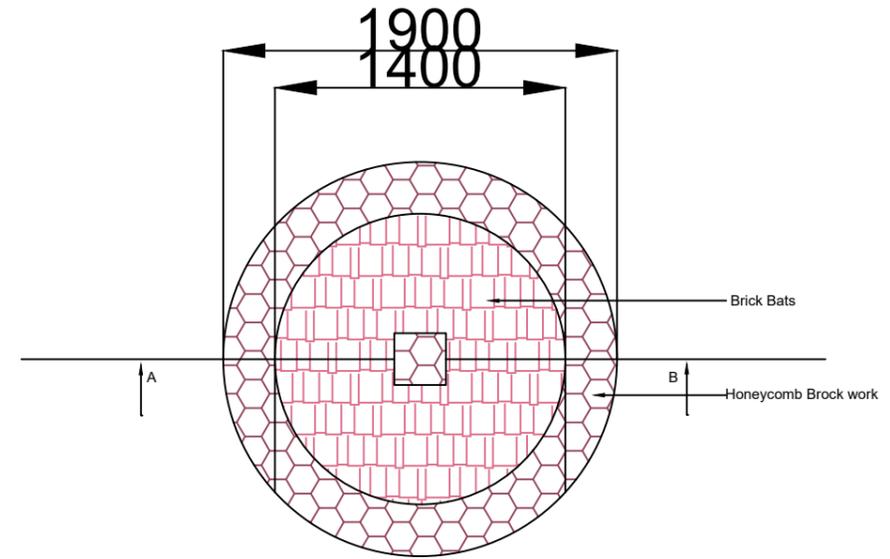




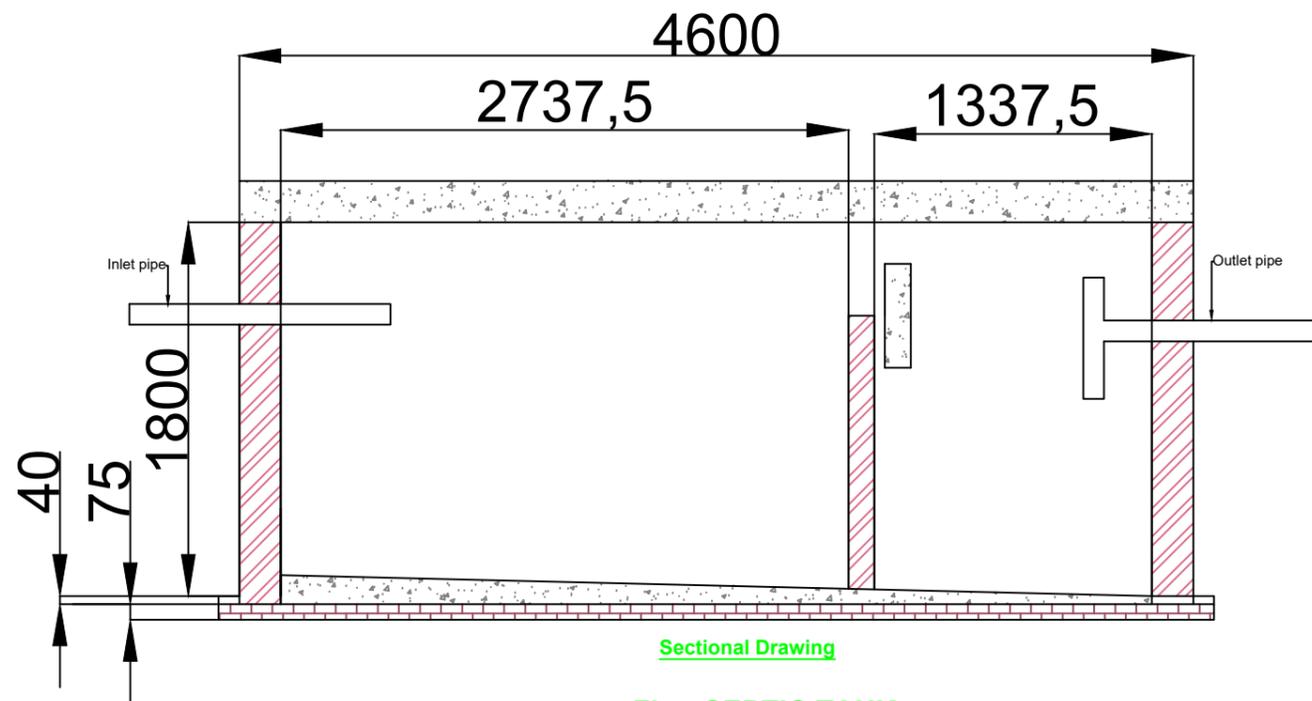




Plan Drawing

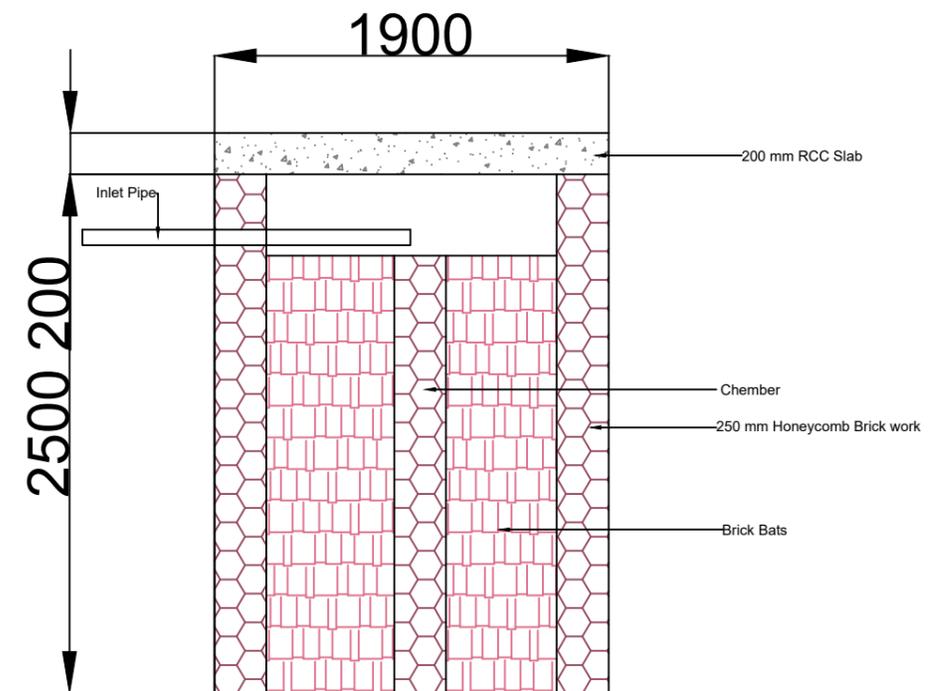


Plan Drawing



Sectional Drawing

Fig:- SEPTIC TANK



Sectional Drawing

Fig:- SOAK PIT

KEY PLAN

REFERENCE DRAWING

| NO | DRAWING NO. | DESCRIPTION |
|----|-------------|-------------|
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GENERAL NOTES

- ALL DIMENSION ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

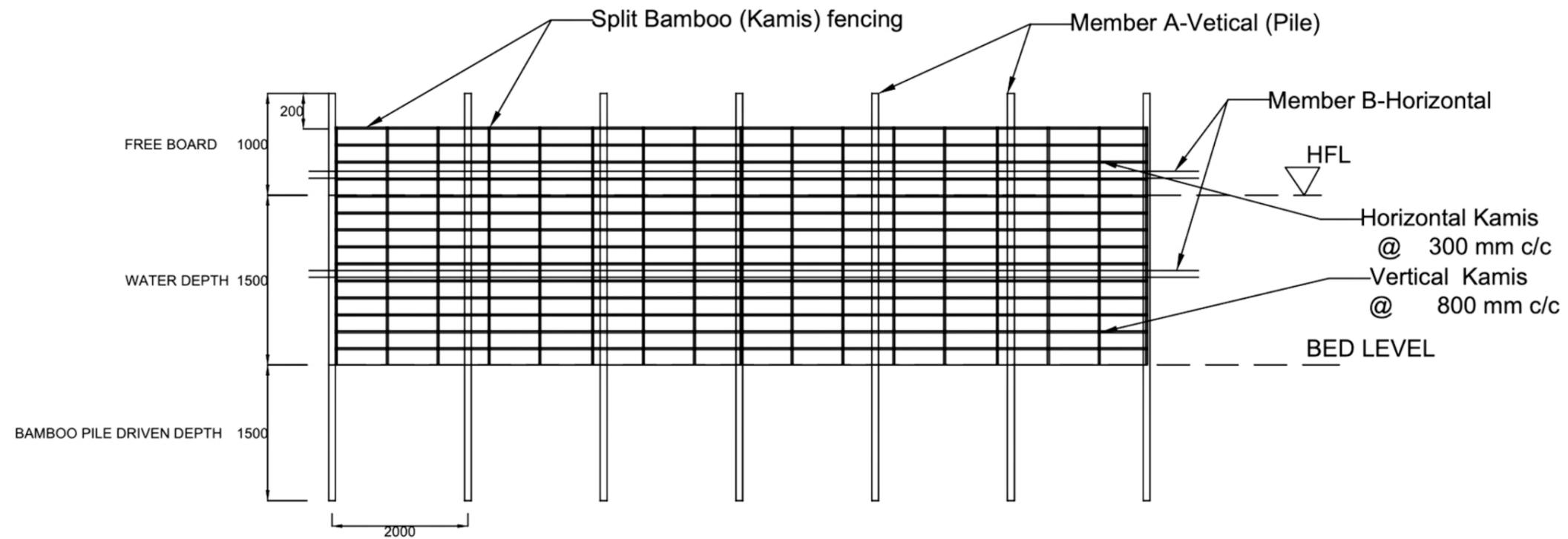
LEGEND

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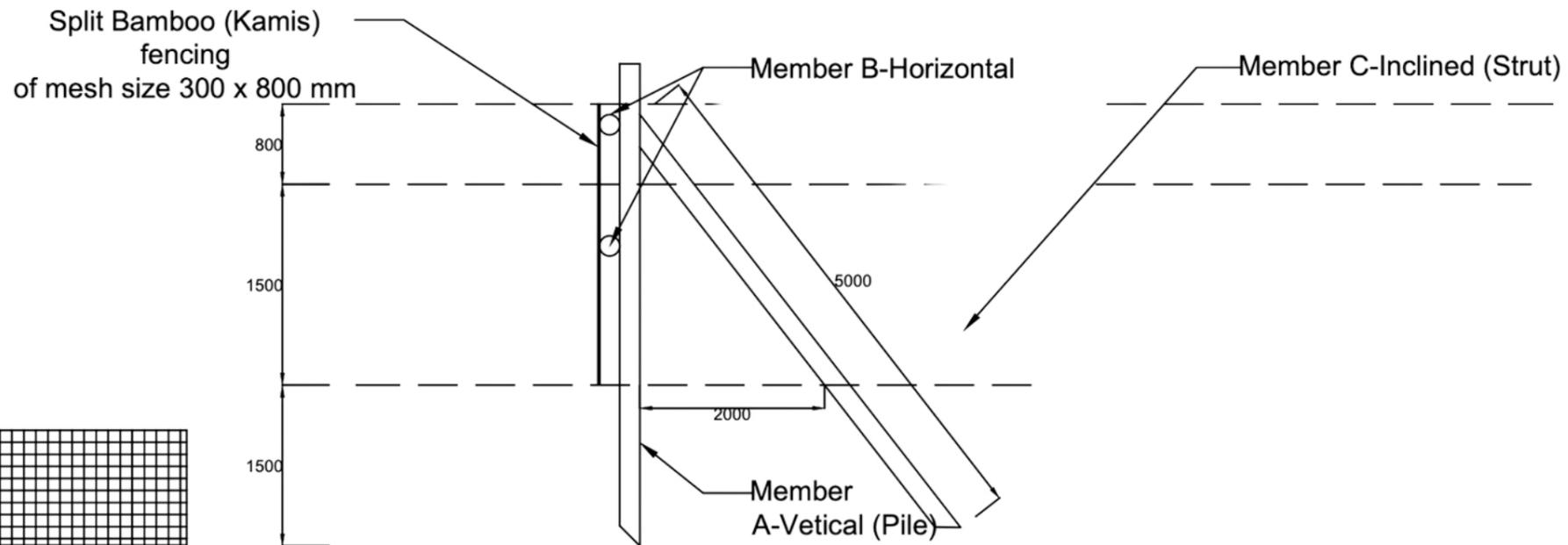
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| PROJECT   | CLIENT |
| SWIFT DPR | ARIAS  |

|   |       |        |                |              |
|---|-------|--------|----------------|--------------|
| DRAWING TITLE                           | SCALE | FORMAT | DRAWING NUMBER | SHEET NUMBER |
| COMMUNITY HALL SEPTIC TANK AND SOAK PIT | A3    |        |                |              |

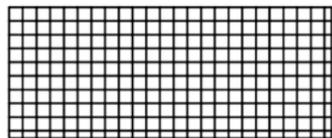
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|---------------------------|--|
| SUMATO GLOBALTECH PVT LTD | AVATAR COMPLEX, NAKHARANI PATH, DISPUR GUWAHATI 781006 |
| Architects & Consultant   |  |



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



URE STRUCTURE AT BEEL/WETLAND



115 GSM

**KEY PLAN**

**REFERENCE DRAWING**

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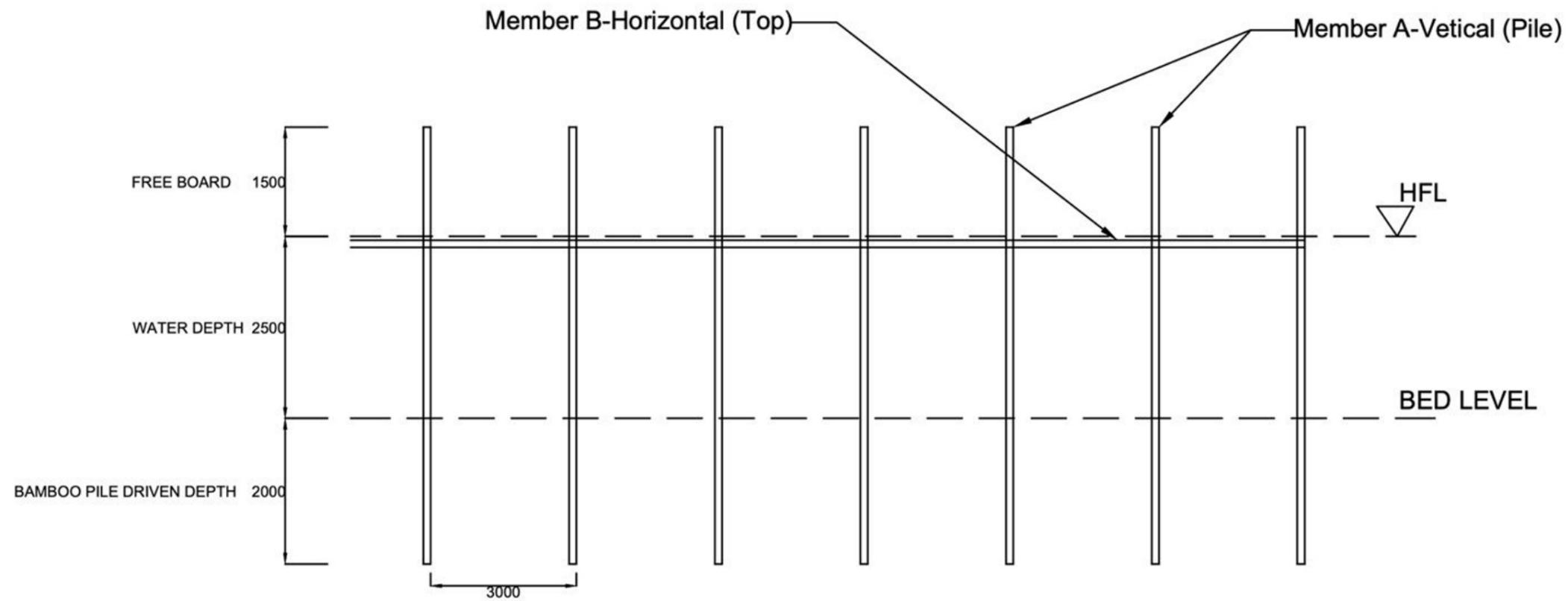
**GENERAL NOTES**

1. ALL DIMENSION ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

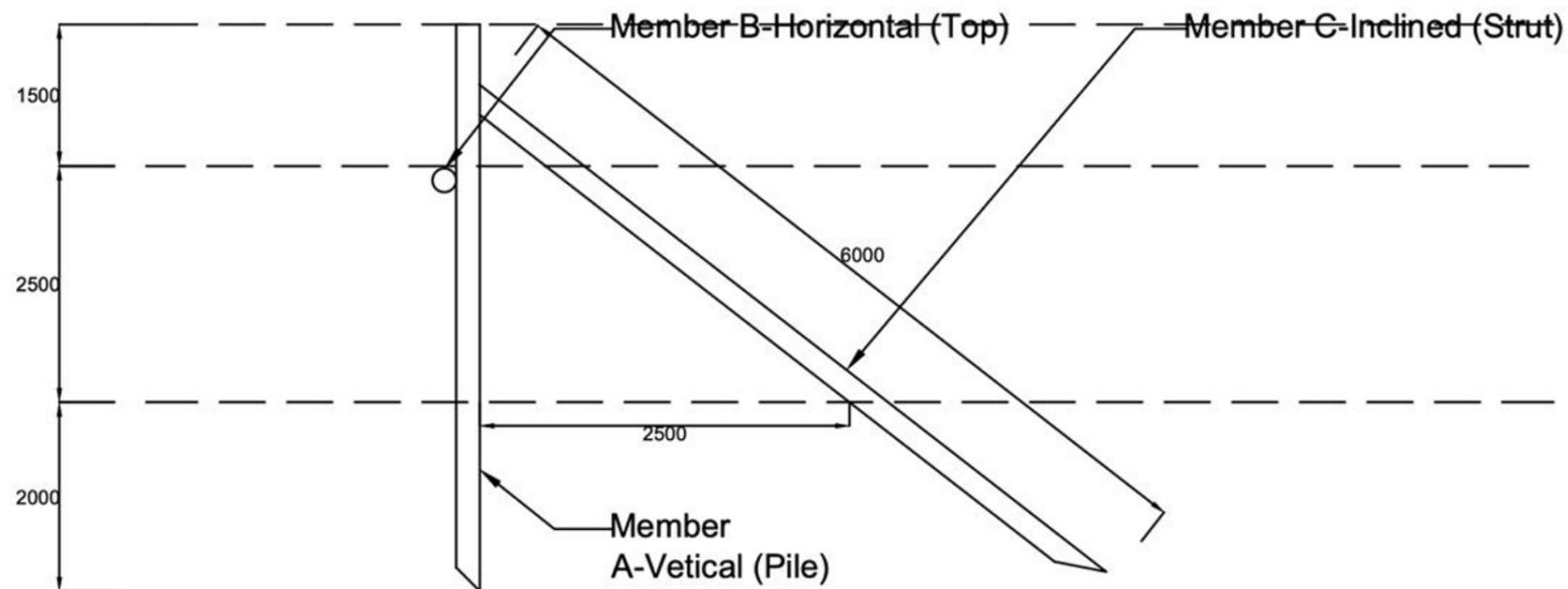
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|                            |   |
|----------------------------|---|
| PROJECT                    | CLIENT  |
| SWIFT DPR                  | ARIAS   |
| DRAWING TITLE              |   |
| PEN CULTURE                |   |
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| 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 |
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GENERAL NOTES

1. ALL DIMENSION ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

LEGEND

| NO | REV | DATE | DESCRIPTION | BY | CHECKED | APPROVED |
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|    |     |      |             |    |         |          |

|                            |  |
|----------------------------|--|
| PROJECT                    | CLIENT   |
| SWIFT DPR                  | ARIAS  |
| DRAWING TITLE              |  |
| KATAL FISHING              |  |
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| Architects & Consultant    |  |



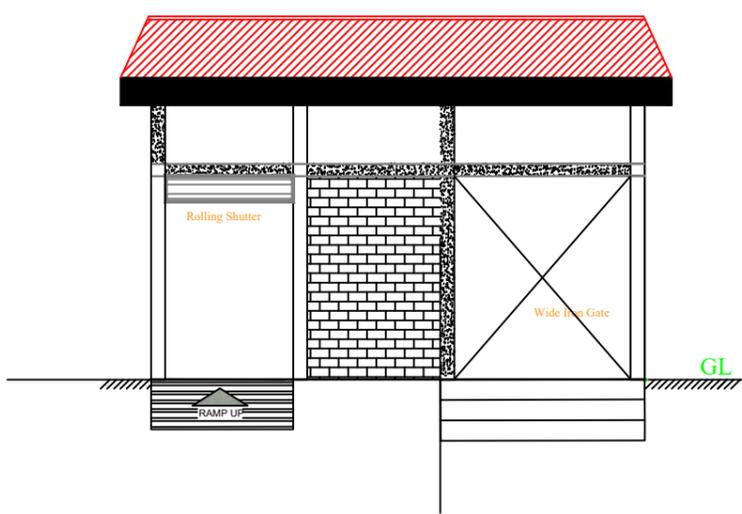
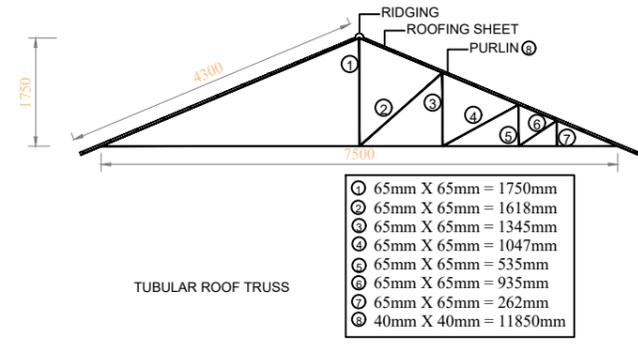
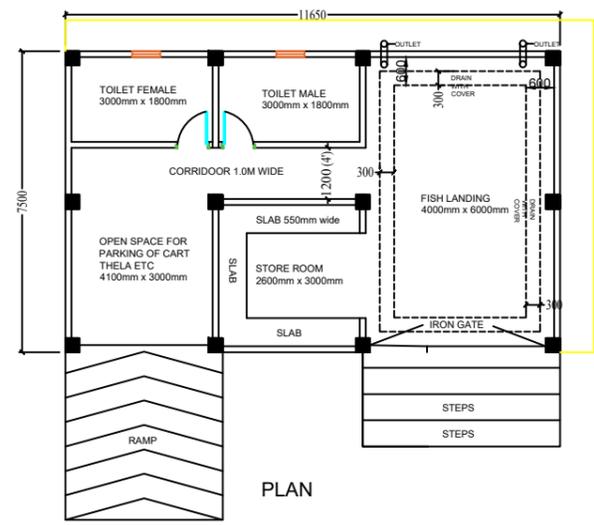
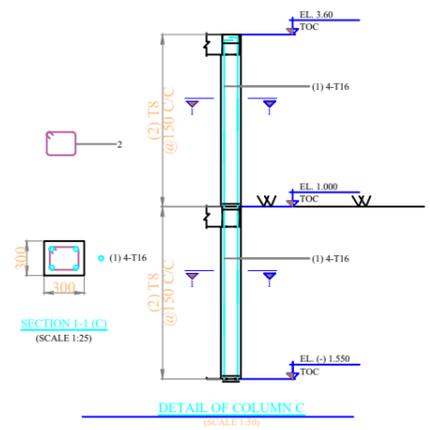
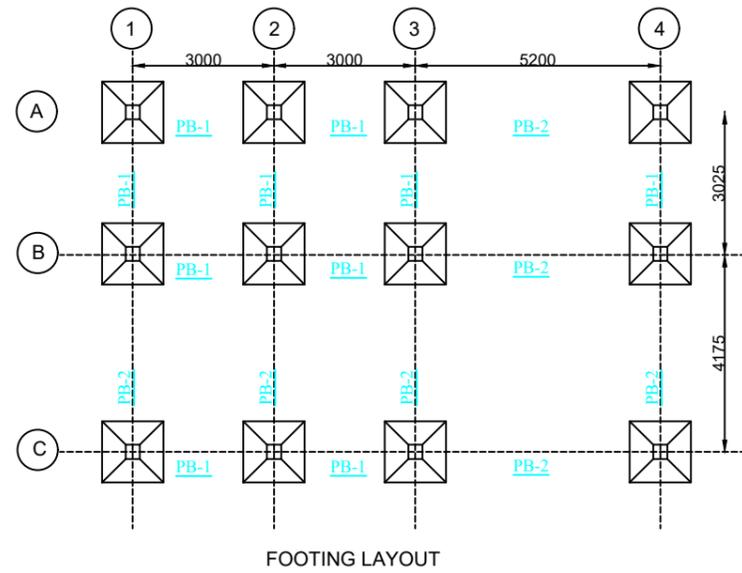






**NOTES**

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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.



**NOTE:**

1. COLUMN SIZE = 300MM X 300MM
2. PLINTH BEAM SIZE = 300MM X 350MM
3. BEAM SIZE ABOVE GL = 200MM X 250MM
4. SIZE OF LINTEL = 150MM X 150MM
5. SIZE OF WINDOW = 1.50M X 1.20M
6. SIZE OF DOOR = 0.75M X 1.80M

**DESCRIPTION**

CLIENT:  
ARIAS SOCIETY

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

DRAWING CONTENTS:  
**PLAN ELEVATION & CROSS SECTION OF FISH LANDING STRUCTURE**

DRAWING NO:

DRAWING TITLE:-  
PLAN & SECTION

SCALE:  
DATE : 12-01-2025

PAPER SIZE: A3

SIGNATURE:

DESIGNED BY:

CONSULTANT ►

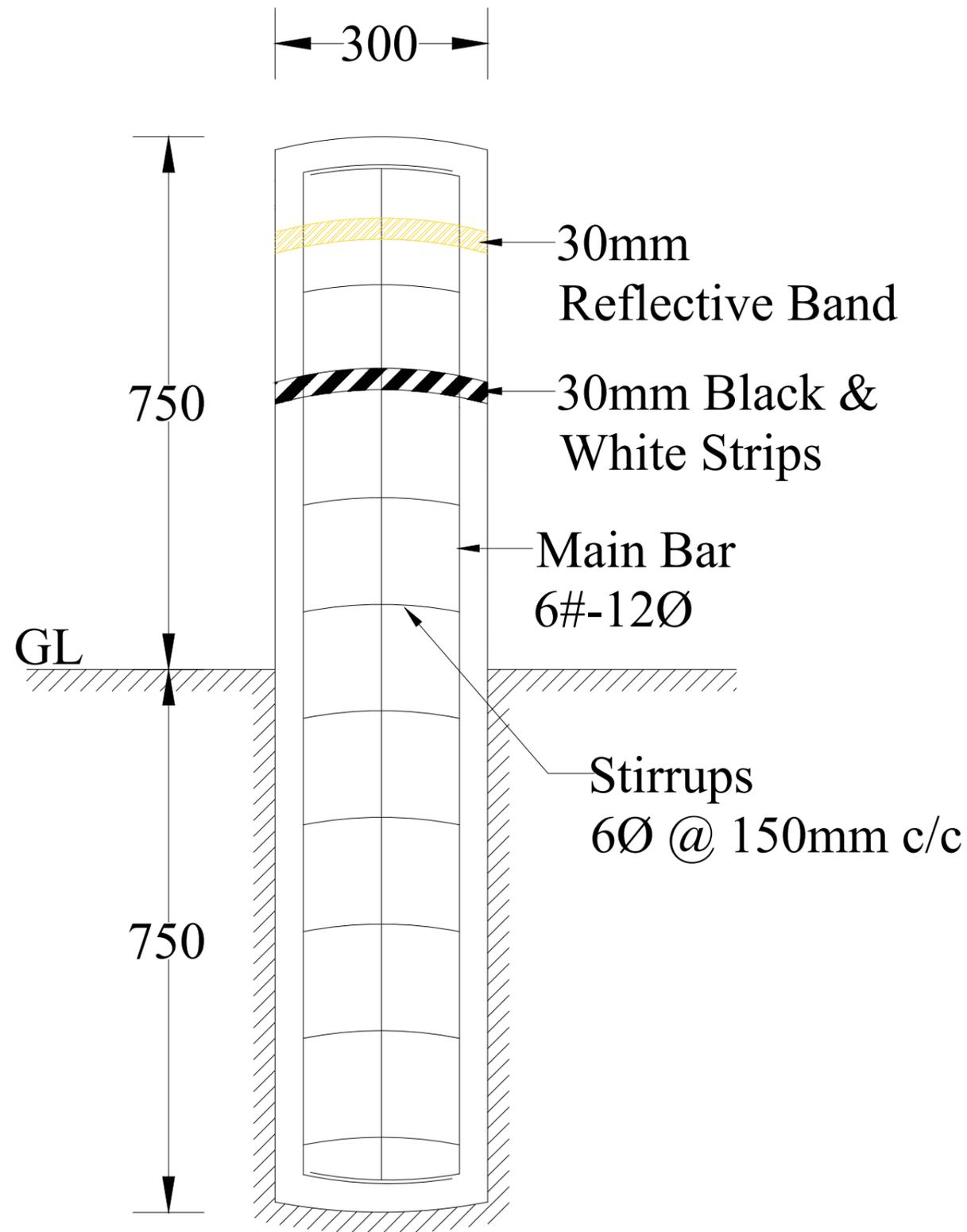
**SUMATO GLOBALTECH PVT LTD**

**REVISIONS**









**KEY PLAN**

**REFERENCE DRAWING**

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**GENERAL NOTES**

1. ALL DIMENSION ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

**LEGEND**

| NO | DATE | DESCRIPTION | DRAWN | CHECKED | APPROVED |
|----|------|-------------|-------|---------|----------|
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|  |  |   |       |
|--|--|---|-------|
| PROJECT<br>SWIFT DPR                                 |  | CLIENT<br><b>ARIAS</b>                                      |       |
| DRAWING TITLE<br><b>COMMUNITY HALL</b>               |  | C/S   | SHEET |
| SUMATO GLOBALTECH PVT LTD<br>Architects & Consultant |  | AVATAR COMPLEX<br>KAWASARI PLOT, DISPUK<br>CUMBAKATI-751008 |       |





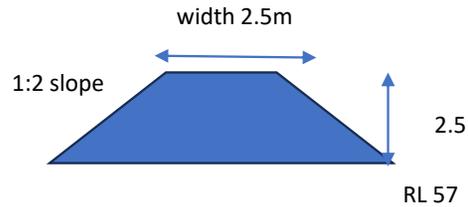




### Earth cutting filling statment of Sara beel

Mean area method

| Name                 | Details |
|----------------------|---------|
| Ground level (RL)    | 57      |
| Desired height       | 2.5     |
| slope (1:2)          | 2       |
| Embankment top width | 2.5     |
| top RL               | 59.5    |



**Total earthwork reqd.      4828.72**

| Chainage (m) | Elevation (r | Depth (D) | Area     | Mean Area | Length | Quantity of filling |
|--------------|--------------|-----------|----------|-----------|--------|---------------------|
| 0            | 57.999       | 1.501     | 8.258502 | 0         | 0      | 0                   |
| 30           | 57.998       | 1.502     | 8.267008 | 8.262755  | 30     | 247.88265           |
| 60           | 57.893       | 1.607     | 9.182398 | 8.724703  | 30     | 261.74109           |
| 90           | 58.281       | 1.219     | 6.019422 | 7.60091   | 30     | 228.0273            |
| 120          | 58.655       | 0.845     | 3.54055  | 4.779986  | 30     | 143.39958           |
| 150          | 57.999       | 1.501     | 8.258502 | 5.899526  | 30     | 176.98578           |
| 180          | 57.939       | 1.561     | 8.775942 | 8.517222  | 30     | 255.51666           |
| 210          | 57.923       | 1.577     | 8.916358 | 8.84615   | 30     | 265.3845            |
| 240          | 57.996       | 1.504     | 8.284032 | 8.600195  | 30     | 258.00585           |
| 270          | 57.904       | 1.596     | 9.084432 | 8.684232  | 30     | 260.52696           |
| 300          | 57.911       | 1.589     | 9.022342 | 9.053387  | 30     | 271.60161           |
| 330          | 57.987       | 1.513     | 8.360838 | 8.69159   | 30     | 260.7477            |
| 360          | 57.856       | 1.644     | 9.515472 | 8.938155  | 30     | 268.14465           |
| 390          | 57.82        | 1.68      | 9.8448   | 9.680136  | 30     | 290.40408           |
| 420          | 57.849       | 1.651     | 9.579102 | 9.711951  | 30     | 291.35853           |
| 450          | 57.856       | 1.644     | 9.515472 | 9.547287  | 30     | 286.41861           |

|            |        |       |          |          |    |                   |
|------------|--------|-------|----------|----------|----|-------------------|
| <b>480</b> | 57.971 | 1.529 | 8.498182 | 9.006827 | 30 | 270.20481         |
| <b>510</b> | 58.033 | 1.467 | 7.971678 | 8.23493  | 30 | 247.0479          |
| <b>540</b> | 57.861 | 1.639 | 9.470142 | 8.72091  | 30 | 261.6273          |
| <b>570</b> | 57.864 | 1.636 | 9.442992 | 9.456567 | 30 | 283.69701         |
|            |        |       |          |          |    | <b>4828.72257</b> |