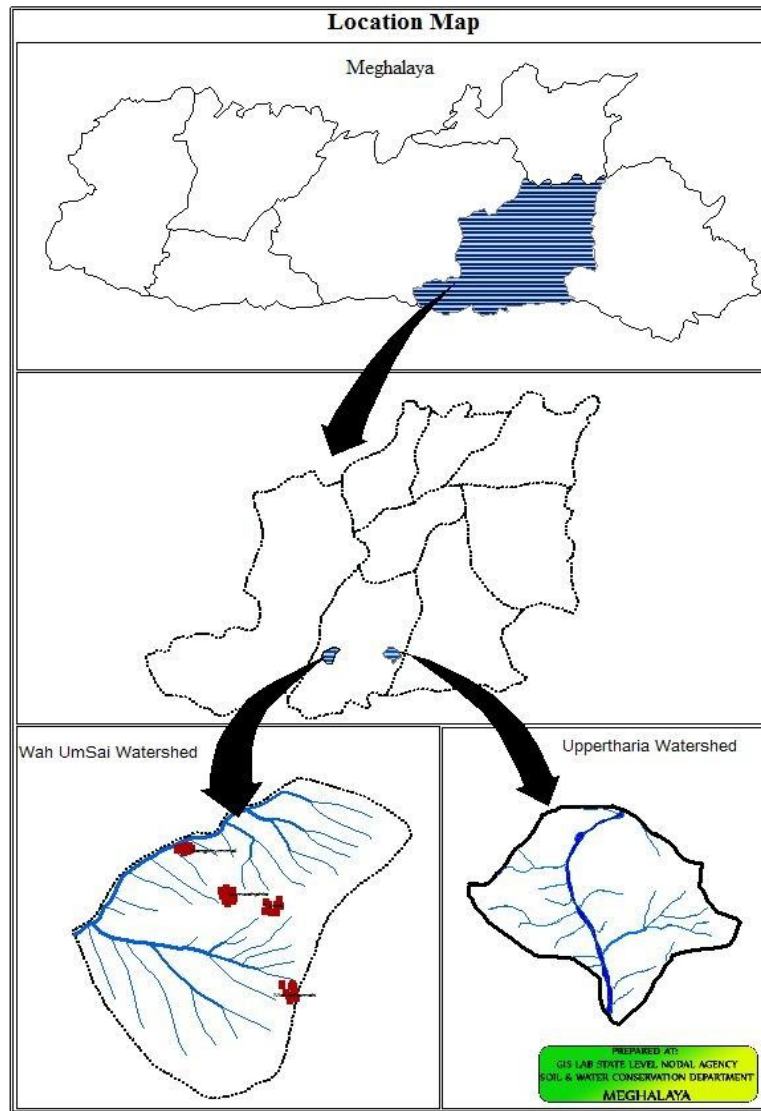


**DETAILED PROJECT REPORT  
OF INTEGRATED WATERSHED MANAGEMENT PROGRAMME  
(IWMP PROJECT VI -2010-11)  
UPPER THARIA AND WAH UMSAI MICRO WATERSHEDS  
UNDER SHELLA BHOLAGANJ C & RD BLOCK  
EAST KHASI HILLS DISTRICT  
MEGHALAYA**





## SUMMARY

Name of the State : Meghalaya

Name of the District : East Khasi Hills District

Name of the C&RD Block : Shella Bholaganj

Name of the Villages :

**UPPER THARIA MICRO WATERSHED:**(i) Mawsiangei (ii) Suktia (iii) Tyrngei (iv) Nongla

**WAH UMSAI MICRO WATERSHED:** (i) Tyrna (ii) Mawshamok (iii) Lumsophie (iv) Nongthymmai

Name of the Project : East Khasi Hills – IWMP – VI

Total Geographical Area : 1464 Ha

Total Treatment Area : 1000 Ha

Total Project Cost : 150 lakhs

Project Duration : 5 Years

Project Implementing Agency : Soil & Water Conservation Territorial Division, Shillong.

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**CHAPTER I**  
**INTRODUCTION AND BACKGROUND**

# CHAPTER I

## INTRODUCTION AND BACKGROUND

### 1.1 Project Background:

The Upper Tharia and Wah Umsai Micro Watersheds (IWMP-VI) project are located in Shella Bholaganj C&RD Block, East Khasi Hills District of Meghalaya. Consisting of a two micro-watersheds, the project area is drained by the Tharia River and its tributaries flowing in a north to south direction and Wah Umsai flowing from the north to the south west direction. The total area is 1464 Ha with 1000 to be treated under the Integrated Watershed Management Programme (IWMP).

The Project area is located at a distance of about 80 km from Shillong the District Headquarter and also the State Capital. A total of eight villages are covered under the project. These are –

#### UPPER THARIA MICRO -WATERSHED

1. Mawsiangei
2. Suktia
3. Tyrngei
4. Nongla

#### WAH UMSAI MICRO- WATERSHED

- 1 Tyrna
- 2 Mawshamok
- 3 Nongthymmai
- 4 Lumsophie

### **1.2 Micro-watershed Information:**

The micro-watershed code is 3C1C1ab for Upper Tharia watershed and 3CB5b2m for Wah Umsai Watershed as codified by the North East Space Application Centre (NESAC). The total area of the micro-watershed is 1464 Ha, with 1000 hectares to be treated under the Integrated Watershed Management Programme (IWMP).

### **1.3 Need and Scope for Watershed Development:**

Upper Tharia (3C1C1ab) and Wah Umsai (3CB5b2m) Micro watershed falls under the High Priority category as per the prioritization of watersheds by the North East Space Application Centre (NESAC). Located on the slopes of the deep gorges of the Sohra Plateau the 4 villages do not have any road connectivity. The farmers are all marginal and 279 households are below the poverty line, which is 62.9% of the total households. Jhum cultivation is practiced by most of the inhabitants of these villages on the slopes. Even though the area receives ample rainfall during the monsoons, there is acute shortage of water during the dry seasons and the villagers have to travel long distances for fetching water even for domestic use.

### **1.4 Other developmental projects/schemes running in the Project Area:**

The other developmental projects/schemes undertaken in the Project Area are:-

- i. MGNREGS
- ii. Border Area Development Programme (BADP)
- iii. Indira Awas Yojana (IAY)

**CHAPTER II**  
**BASIC INFORMATION OF THE PROJECT AREA**



## **CHAPTER II**

### **BASIC INFORMATION OF THE PROJECT AREA**

#### **2.1 Location:**

The Project area is located within the area of Shella Bholaganj C&RD Block of Sohra Civil Sub-Division, East Khasi Hills District. It is situated at a distance of about 75 km from Shillong the District Headquarter which is also the State Capital. The geographical location of Wah Umsai Watershed is between N 91°39.16' to 91°42.45' Longitude and E 25°13.03' to 25°14.53' Latitude and for Upper Tharia watershed is N 91°45.44' and E 25°11.52' to 25°14.42' Longitude and N. There are 8 villages under two Watersheds which are as follows –

#### UPPER THARIA WATERSHED

- 1 Mawsiangei
- 2 Suktia
- 3 Tyrngei
- 4 Nongla

#### WAH UMSAI WATERSHED

- 5 Tyrna
- 6 Mawshamok
- 7 Nongthymmai
- 8 Lumsophie

At present two villages are not yet connected to any motorable road.

## 2.2 Physiography:

The physiography of the micro-watershed is highly undulating. The altitude ranges from a minimum of 300m to a high of 1300m above mean sea level. In the lower reaches (valley lands) the slope ranges from 25% to 35%, however, in the middle and upper reaches it is greater than 45 %, and can reach up to 180%.

**Table 2.1: Physiographic details**

| Elevation (feet)  | Slope Range (%) | Order of watershed Sub/Micro-watershed | Major streams | Topography       |
|-------------------|-----------------|--|---------------|------------------|
| 800 ft to 2800 ft | 8% to 80%       | Micro Watershed                        | Upper Tharia  | Strongly Sloping |
| 499 ft to 3600 ft | 14% to 70%      | Micro Watershed                        | Wah Umsai     |                  |

**2.3 Drainage:** The major stream draining the micro-watershed is the UpperTharia and Wah Umsai flowing in a north-south direction. The slopes of the micro-watershed are dissected by numerous small tributaries flowing to the Upper Tharia and Wah Umsai.

**2.4 Soil:** Soil Texture is coarse on the sloping lands. Soil depth varies from very shallow to deep. Soils are permeable and generally acidic in nature. Owing to highly undulating land form and absence of good vegetation cover, the area is exposed to erosion hazards. The soil nutrient status in the area shows a general trend of low phosphorous content.

**Table 2.2: Details of soil erosion in the project areas:**

| 1       | 2              | 3                 | 4                          | 5              | 6                | 7                  | 8                  | 9                                    |  |
|---------|----------------|-------------------|----------------------------|----------------|------------------|--------------------|--------------------|--------------------------------------|--|
| Sl. No. | Names of State | Names of District | Names of Projects          | Cause          | Types of erosion | Area affected (ha) | Run-off (mm/ year) | Average soil loss (Tonnes/ ha/ year) |  |
| 1       | Meghalaya      | East Khasi Hills  | East Khasi Hills – IWMP VI | Water erosion: |                  |                    |                    |                                      |  |
|         |                |                   |                            | a              | Sheet            | 750                | 2500-4000          | 10 to 15                             |  |
|         |                |                   |                            | b              | Rill             | 350                | 2500-4000          |                                      |  |
|         |                |                   |                            | c              | Gully            | 200                | 2500-4000          |                                      |  |
|         |                |                   |                            | Sub total      |                  | 1464               |                    |                                      |  |
|         |                |                   |                            | Wind erosion   |                  | Nil                | Nil                | Nil                                  |  |

**2.5 Climate:** The area in the foothills or low lying areas and mid-slopes are hot in summer and remain warm throughout the winter. The area on the higher reaches is warm during summer and cold during winter. The average annual rainfall is 9000mm.

**Table 2.3: Agro-climatic zones of the project areas, soil types, average rainfall and major crops.**

| 1       | 2             | 3                              | 4            | 5                      | 6                            | 7  |              | 8  | 9            |               |
|---------|---------------|--------------------------------|--------------|------------------------|------------------------------|--|--------------|--|--------------|---------------|
| Sl. No. | Name of State | Name of the Agro-climatic zone | Area (in ha) | Names of the districts | Names of the Projects        | Major soil types   |              | Average annual rainfall in mm (preceding 5 years' average) | Major crops  |               |
|         |               |                                |              |                        |                              | a)Type   | b) Area (ha) |  | a) Name      | b) Area (ha)  |
| 1       | Meghalaya     | Southern Slopes and Valley     | 1000 Ha      | East Khasi Hills       | East Khasi Hills – IWMP – VI | Moderate shallow, excessively drained, fine – loamy soil on moderately steep side slopes of hills having loamy surfaces with severe erosion hazard and strong stoniness associated with moderately Shallow, excessively drained, loamy skeletal soils on gently sloping hill tops with very severe erosion hazard and slight stoniness | 1464 Ha      | 9000 mm  | Betel nut    | 100           |
|         |               |                                |              |                        |                              |  |              |  | Betel leaf   | 50            |
|         |               |                                |              |                        |                              |  |              |  | Oranges      | 40            |
|         |               |                                |              |                        |                              |  |              |  | Bay leaf     | 100           |
|         |               |                                |              |                        |                              |  |              |  | Broom stick  | 30            |
|         |               |                                |              |                        |                              |  |              |  | Black pepper | 40            |
|         |               |                                |              |                        |                              |  |              |  | Banana       | 5             |
|         |               |                                |              |                        |                              |  |              |  | Pineapple    | 10            |
|         |               |                                |              |                        |                              |  |              | <b>Total</b>   |              | <b>375 Ha</b> |

**2.6 Agriculture:** Agriculture is the primary occupation of the people of the area. The people mostly practice jhum. The jhum plots vary from 0.5 to 1.0 Ha, and are cultivated for 3-4 years. The principal agricultural crops grown of the jhum fields are millet, maize, yam and vegetables. Fruit crops are well suited in the lower reaches which include Lemon, orange, pineapple, jackfruit and litchi. The slopes of the Upper Tharia and Wah Umsai are also very suitable for betel nut, betel leaf, black pepper, broomstick, which contribute to the income of the people.

**Table 2.4: Crop yield and production**

| <b>Crops</b> | <b>Area (ha)</b> | <b>Average Yield (Qtl) per ha.</b> | <b>Total Production (Qtl.)</b> |
|--------------|------------------|------------------------------------|--------------------------------|
| Yam          | 50               | 15                                 | 750                            |
| Ginger       | 20               | 50                                 | 1000                           |
| Tapioca      | 30               | 40                                 | 1200                           |
| Betel nut    | 100              | 9                                  | 900                            |
| Betel leaf   | 50               | 9                                  | 450                            |
| Black Pepper | 40               | 6                                  | 240                            |
| Oranges      | 40               | 40                                 | 8000                           |
| Bay Leaf     | 100              | 20                                 | 2000                           |

**2.7 Natural Vegetation:** The tree species common to the watershed area includes - *Quercus* spp. *Castanopsis* spp. *Toona ciliata*, *Albizia* spp. *Aporosa* spp. *Bahunia variegata* *Duabanga* spp. and *Ficus* spp. However, due to jhum cultivation the forest cover of the area has reduced considerably.

**2.8 Socio-Economic Profile:** Economically, the area is perhaps the most backward in the district. The main reason is due to the absence of road communication, primitive way of agricultural practices like jhumming and the difficult terrain of the area.

Demographic Status: The total households of both the watersheds in the watershed project is 453 with a total population of 2118, of which 1071 are male and 1047 are female. The detail of the household in each of the villages in the watershed project is as follows:

#### UPPER THARIA MICRO - WATERSHED

|                  |             |
|------------------|-------------|
| 1. Mawsiangei    | - 74        |
| 2. Suktia        | - 77        |
| 3. Tyrngei       | - 31        |
| 4. <u>Nongla</u> | <u>- 46</u> |
|                  | 228         |

#### WAH UMSAI MICRO -WATERSHED

|                     |             |
|---------------------|-------------|
| 1. Tyrna            | - 144       |
| 2. Mawshamok        | - 23        |
| 3. Nongthymmai      | - 43        |
| 4. <u>Lumsophie</u> | <u>- 15</u> |
|                     | 225         |

#### Infrastructure facilities :

2.1.1 *Roads:* Few villages within the Project Area are connected by road. The Project area depends entirely on the kutchra road connected either to Sohra or Pynursla.

2.1.2 *School:* there are only 9 L.P Schools and 2 U.P Schools within the Project Area run either by the Mission or by the Government.

2.1.3 *Electricity :* Connections have been provided to all the eight villages.

2.1.4 *Health :* There is only one Health Centre at Tyrna Village but for the other villages they had to rush to Pynursla, Sohra or Shillong for treatment.

2.1.5 *Water Supply* : Drinking water supply have been provided by the PHE Deptt but not upto the mark. However, during lean season the entire population have to depend on springs available in the area as the supply is not sufficient to meet the daily requirement.

2.1.6 *Market* : There is a weekly market held once in a week at Sohra and Pynursla. However, the main market where the people sell their produces is at Shillong.

**Table 2.5: Infrastructure Status.**

| 1                | 2  | 3           |  | 4  |     |      |      |
|------------------|--|-------------|--|--|-----|------|------|
| Name of District | Name of Project  | Parameters: |  | Status   |     |      |      |
| East Khasi Hills | East Khasi Hills – IWMP VI                                 | (i)         | No. of villages connected to the main road by an all-weather road.   | 3 villages connected by road and the rest are at 1 hr to 2 hrs walking from the motorable junction |     |      |      |
|                  |  | (ii)        | No. of village provided with electricity   | 8 nos. electrified   |     |      |      |
|                  |  | (iii)       | No. of households without access to drinking water   | 100 nos.   |     |      |      |
|                  |  | (iv)        | No. of educational institutions:<br>Primary (P)/ Secondary (S)/ Higher Secondary (HS)/ Vocational institution (VI) | (P)  | (S) | (HS) | (VI) |
|                  |  |             |  | 11 Nos.  | -   | -    | -    |
|                  |  | (v)         | No. of village with access to Primary Health Centre  | Nil  |     |      |      |
|                  |  | (vi)        | No. of village with access Veterinary Dispensary   | Nil  |     |      |      |
|                  |  | (vii)       | No. of village with access Post Office   | Nil  |     |      |      |
|                  |  | (viii)      | No. of village with access Banks   | Nil  |     |      |      |
|                  |  | (ix)        | No. of village with access Markets/ mandis   | Nil  |     |      |      |
|                  |  | (x)         | No. of village with access Agro-Industries   | Nil  |     |      |      |
|                  |  | (xi)        | Total quantity of surplus milk   | Nil  |     |      |      |
|                  |  | (xii)       | No. of milk collection centres<br>(e.g. Union (U)/ Society (S)/ Private agency (PA)/ Others (O))                   | (U)  | (S) | (PA) | (O)  |
|                  |  |             |  | Nil  | Nil | Nil  | Nil  |
| (xiii)           | No. of villages with access to Aganwadi Centres            | 4 Nos       |  |  |     |      |      |
| (xiv)            | Any other facilities with no. of villages (please specify) | Nil         |  |  |     |      |      |

**2.9 Livestock:** there are only 3 kinds of livestock farming being farmed in the area viz. Piggery, Poultry and Bee-Keeping or Apiculture.

**Table 2.6: Existing livestock population**

| Type of Animal | Population |
|----------------|------------|
| Piggery        | 284        |
| Poultry        | 2317       |
|                | 2601       |

**2.10 Land ownership:** There are primarily two types of land holding system, namely private lands (Ri Kynti i.e. individually owned land) and community lands (Ri Kur i.e. clan land and Ri Raid i.e. village community land).

**Table 2.7: Land Holding:**

| 1                | 2                          | 3               | 4                 | 5                     | 6                 |         |        |
|------------------|----------------------------|-----------------|-------------------|-----------------------|-------------------|---------|--------|
| Name of District | Name of the Project        | Types of Farmer | No. of households | No. of BPL households | Land holding (ha) |         |        |
|                  |                            |                 |                   |                       | Irrigated         | Rainfed | Total  |
| East Khasi Hills | East Khasi Hills – IWMP VI | (i) Large       | -                 | -                     |                   |         |        |
|                  |                            | (ii) Small      | 39                | -                     | -                 | 97 Ha   | 97 ha  |
|                  |                            | (iii) Marginal  | 297               | 115                   | -                 | 356 Ha  | 35 Ha  |
|                  |                            | (iv) Landless   | 82                | 36                    | -                 | -       | -      |
|                  |                            | Sub - Total     | 418               | 151                   |                   | 453 Ha  | 453 Ha |



**Table 2.5: Common Property Resources in the Project Area**

| 1                | 2                          | 3                              | 4   |                        |     |                       | 5                                 |                        |     |                       |
|------------------|----------------------------|--------------------------------|---|------------------------|-----|-----------------------|-----------------------------------|------------------------|-----|-----------------------|
| Name of District | Name of the Projects       | CPR Particulars                | Total Area (ha)<br>Area owned/ In possession of |                        |     |                       | Area available for treatment (ha) |                        |     |                       |
|                  |                            |                                | Pvt. Person                                     | Govt. (specify deptt.) | PRI | Any other (Community) | Pvt. Person                       | Govt. (specify deptt.) | PRI | Any other (Community) |
| East Khasi Hills | East Khasi Hills – IWMP VI | (i) Wasteland/ degraded land   | 349 ha  | -                      |     | -                     | 349 Ha                            | -                      | -   | -                     |
|                  |                            | (ii) Pastures                  | -   | -                      | -   | -                     | -                                 | -                      | -   | -                     |
|                  |                            | (iii) Private Agriculture land | 375 Ha  | -                      | -   | -                     | 327 Ha                            |                        |     |                       |
|                  |                            | (iv) Village woodlot           | -   | -                      | -   | -                     |                                   |                        |     |                       |
|                  |                            | (v) Forest                     | -   | -                      | -   | 740 Ha                |                                   |                        |     | 300 ha                |
|                  |                            | (vi) Village Ponds/ Tanks      | -   | -                      | -   | -                     |                                   |                        |     |                       |
|                  |                            | (vii) Community Buildings      | -   | -                      | -   | -                     |                                   |                        |     |                       |
|                  |                            | (viii) Weekly Markets          | -   | -                      | -   | Pynursla/ Sohra       |                                   |                        |     |                       |
|                  |                            | (ix) Permanent Markets         | -   | -                      | -   | Pynursla /Sohra       |                                   |                        |     |                       |
|                  |                            | (x) Temples/ Places of worship | -   | -                      | -   | Church- 1 no          |                                   |                        |     |                       |
|                  |                            | (xi) Others (Pl. specify)      | -   | -                      | -   | -                     | 24ha                              |                        |     |                       |
| <b>Total</b>     |                            |                                | 724 Ha  | -                      | -   | <b>740 ha</b>         | <b>700 Ha</b>                     | -                      | -   | <b>300 Ha-</b>        |

**2.11 Land use and land cover :** As per the land use land cover map generated by NESAC, Meghalaya from Satellite Image taken during 2005 – 2006 (LISS – III, Image) the Watershed area has been broadly classified into the following land uses.

|  |   |                |
|--|---|----------------|
| a) Built-up Area                       | = | 12 Ha          |
| b) Water bodies-River/Stream-Perennial | = | 27 Ha          |
| c) Tree clad Area-close                | = | 1076 Ha        |
| d) Tree clad Area-open                 | = | <u>349 Ha</u>  |
| <b>Total</b>                           | = | <b>1464 Ha</b> |

**2.12 Problems of the Area:** The primary problem of the area is jhumming. Majority of the population depends on Jhum Cultivation for their livelihood. Vast tracks of abandoned Jhum areas are converted to Broomstick cultivation areas which has further degraded the capability of the land. Mention may also be made here that the land use categorized as Tree-clad Area-open in the land used land cover map generated using Satellite Images of 2005 – 2006 are actually Broom-stick cultivation areas. In other words, unscientific method of cultivation has not only reduced the Jhum cycle, low crop yield but had adversely affected the ecological balance within the area. Road communication is another infrastructural problem that the area is facing where large volume crops like pineapple, jackfruits etc do not find their way into the market which has resulted in poor socio-economic status of the people. However, to control or to overcome the said problems an innovative approach has been formulated and documented in the Action Plan or the Treatment Plan the Detailed Project Report. The method of identification of the problems is through the Participatory Rural Appraisal Exercises conducted in all the villages within the Watershed.

## **CHAPTER III**

# **PROJECT PLANNING & INSTITUTION BUILDING**

## CHAPTER III

### PROJECT PLANNING & INSTITUTION BUILDING

#### 3.1 Scientific Planning

- i) Base Line Survey: To establish a benchmark for assessing the impact of any intervention (pre-project & post project) a baseline survey is essential. The baseline survey included household census & socio-economic survey by using structured and semi –structured questionnaires, bio-physical survey to identify and assess the status of natural resources in the project area.
- ii) Participatory Rural Appraisal: To further obtain information on the project area, the people, resources, various PRA techniques like resource mapping, social mapping, seasonal calendars, matrix ranking, and Venn diagrams were used.
- iii) GIS & Remote Sensing: To facilitate the process of prioritization and planning Geographic Information System was use. The land use and land cover (LULC) maps were prepared by the GIS Lab State Level Nodal Agency, Soil & Water Conservation Department, Meghalaya using the LISS III images (2006). The activities were located on the field by using GPS and accordingly transferred to the maps on GIS platform.

**Table 3.1: Details of Scientific Planning and Inputs in IWMP projects:**

| 1         | 2   | 2  |
|-----------|---|--|
| Sl.No.    | Scientific criteria/ inputs used  | No. of projects in which scientific criteria were used |
| <b>A.</b> | <b>Planning</b>   |  |
|           | Cluster approach  | 3  |
|           | Whether technical back-stopping for the project has been arranged? If yes, mention the name of the Institute. | Yes,<br>NESAC, Nongsder                                |
|           | Baseline survey   | Yes  |
|           | Hydro-geological survey   | No   |
|           | Contour mapping   | No   |
|           | Participatory Net Planning (PNP)  | No   |

| 1         | 2  | 2   |
|-----------|--|-----|
|           | Remote sensing data-especially soil/ crop/ run-off cover   | Yes |
|           | Ridge to Valley treatment  | Yes |
|           | Online IT connectivity between   |     |
|           | (1) Project and DRDA cell/ZP   | Yes |
|           | (2) DRDA and SLNA  | Yes |
|           | (3) SLNA and DoLR  | Yes |
|           | Availability of GIS layers   |     |
|           | 1. Cadastral map   | No  |
|           | 2. Village boundaries  | No  |
|           | 3. Drainage  | Yes |
|           | 4. Soil (Soil nutrient status)   | Yes |
|           | 5. Land use  | Yes |
|           | 6. Ground water status   | No  |
|           | 7. Watershed boundaries  | Yes |
|           | 8. Activity  | Yes |
|           | Crop simulation models <sup>#</sup>  | No  |
|           | Integrated coupled analyzer/ near infrared visible spectroscopy/ medium spectroscopy for high speed soil nutrient analysis | No  |
|           | Normalized difference vegetation index (NDVI)#   | Yes |
|           | Weather Stations   | No  |
| <b>B.</b> | <b>Inputs</b>  |     |
|           | 1. Bio-pesticides  | No  |
|           | 2. Organic manures   | Yes |
|           | 3. Vermi-compost   | Yes |
|           | 4. Bio-fertilizer  | Yes |
|           | 5. Water saving devices  | No  |
|           | 6. Mechanized tools/ implements  | No  |
|           | 7. Bio-fencing   | Yes |
|           | 8. Nutrient budgeting  | Yes |
|           | 9. Automatic water level recorders & sediment samplers   | No  |
|           | Any other (please specify)   | -   |

### 3.2 Project Implementing Agency:

The PIA is the Soil & Water Conservation Territorial Division, Shillong, East Khasi Hills District of Meghalaya. The Project Manager will be the Divisional Soil and Water Conservation Officer and will be assisted by an Asst. Soil & Water Conservation Officer along with WDT members in which expertise is drawn from the relevant fields for achieving smooth and successful implementation of the project.

| 1                  | 2                             | 3                           |   |
|--------------------|-------------------------------|-----------------------------|---|
| Names of Districts | Names of projects             | Details of PIA              |   |
| East Khasi Hills   | East Khasi Hills –<br>IWMP VI | (i) Type of organization#   | Government  |
|                    |                               | (ii) Name of organization   | Soil & Water Conservation (T) Division, Shillong                |
|                    |                               | (iii) Designation & Address | Divisional Soil & Water Conservation Officer,<br>Polo, Shillong |
|                    |                               | (iv) Telephone              | 0364 – 2591085  |
|                    |                               | (v) Fax                     | Do  |
|                    |                               | (vi) E-mail                 | shg(T) <a href="mailto:Divn@yahoo.com">Divn@yahoo.com</a>       |

### 3.3 Institution Building

#### i) Watershed Committee (WC)

The Watershed Committees of the Upper Tharia and Wah Umsai, IWMP VI was constituted with the active involvement of the villagers with strong support of the Traditional Institutions (Village Durbar/Council). The Upper Tharia and Wah Umsai Watershed Committees have been registered under the Society Registration Act 1860.

**Table 3.2: Details of Watershed Committees (WC):**

**(A)**

| 1                         | 2                                      | 3            | 4  | 5           | 6    | 7  | 8  | 9  | 10 | 11 | 12        | 13 | 14  | 15 | 16        | 17                        | 18                   |                |    |    |
|---------------------------|--|--------------|--|-------------|------|----|----|----|----|----|-----------|----|-----|----|-----------|---------------------------|----------------------|----------------|----|----|
| Names of the Districts    | Names of projects                      | Names of WCs | Date of Registration as a Society (dd/mm/yyyy) | Designation | M/F  | SC | ST | SF | MF | LF | Land-less | UG | SHG | GP | Any other | Educational qualification | Function/s assigned# |                |    |    |
| East Khasi Hills District | East Khasi Hills District – IWMP – III | Upper Tharia | 11 <sup>th</sup> March 2010                    | President   | M    | -  | ST |    |    |    |           |    |     | 1  |           | Cl – X                    | A to I               |                |    |    |
|                           |  |              |  | Secretary   | M    | -  | ST |    |    |    |           |    |     |    | 1         |                           | B.A                  | A to I         |    |    |
|                           |  |              |  | Member      | 10 M | -  | ST |    |    |    | 1         | 1  | 2   | 6  |           |                           |                      | Cl – VI to B.A | Do |    |
|                           |  |              |  | Member      | 2 F  | -  | ST |    |    |    |           |    |     |    |           |                           |                      |                |    | Do |
|                           |  |              |  | Member      |      |    |    |    |    |    |           |    |     |    |           |                           |                      |                |    |    |

**(B)**

| 1                         | 2                                      | 3            | 4  | 5           | 6    | 7  | 8  | 9  | 10 | 11 | 12        | 13 | 14  | 15 | 16        | 17                        | 18                   |                |    |    |
|---------------------------|--|--------------|--|-------------|------|----|----|----|----|----|-----------|----|-----|----|-----------|---------------------------|----------------------|----------------|----|----|
| Names of the Districts    | Names of projects                      | Names of WCs | Date of Registration as a Society (dd/mm/yyyy) | Designation | M/F  | SC | ST | SF | MF | LF | Land-less | UG | SHG | GP | Any other | Educational qualification | Function/s assigned# |                |    |    |
| East Khasi Hills District | East Khasi Hills District – IWMP – III | Wah Umsai    | 11 <sup>th</sup> March 2010                    | President   | M    | -  | ST |    |    |    |           |    |     | 1  |           | Cl – X                    | A to I               |                |    |    |
|                           |  |              |  | Secretary   | M    | -  | ST |    |    |    |           |    |     |    | 1         |                           | B.A                  | A to I         |    |    |
|                           |  |              |  | Member      | 12 M | -  | ST |    |    |    |           |    | 2   | 5  | 5         |                           |                      | Cl – VI to B.A | Do |    |
|                           |  |              |  | Member      | Nil  | -  | ST |    |    |    |           |    |     |    |           |                           |                      |                |    | Do |
|                           |  |              |  | Member      |      |    |    |    |    |    |           |    |     |    |           |                           |                      |                |    |    |

- |  |   |
|--|---|
| <p>A. PNP and PRA</p> <p>C. Maintenance of Accounts</p> <p>E. Supervision of construction activities</p> <p>G. Verification &amp; Measurement</p> <p>I. Social Audit</p> | <p>B. Planning</p> <p>D. Signing of cheques and making payments</p> <p>F. Cost Estimation</p> <p>H. Record of labour employed</p> <p>J. Any other (please specify).</p> |
|--|---|

**ii) Self Help Group**

Awareness programmes were organized in the villages to inform and sensitize the people on the essence of organizing themselves in to homogenous groups for uplifting their livelihood especially for the women and the landless. Discussions were held at length with the WDT on the scope and procedure of group formation, availing credit, grading of the groups and so on.

**Table 3.3: Details of Self Help Groups (SHGs) in the project areas:**

| 1                      | 2                          | 3                            |                 |           |       | 4              |    |    |       | 5                             |    |       | 6                           |    |       |
|------------------------|----------------------------|------------------------------|-----------------|-----------|-------|----------------|----|----|-------|-------------------------------|----|-------|-----------------------------|----|-------|
| Names of the Districts | Names of projects          | Total no. of registered SHGs |                 |           |       | No. of members |    |    |       | No. of SC/ST in each category |    |       | No. of BPL in each category |    |       |
|                        |                            | With only Men                | With only Women | With both | Total | Categories     | M  | F  | Total | M                             | F  | Total | M                           | F  | Total |
| East Khasi Hills       | EKH. IWMP VI -UPPER THARIA | -                            | -               | 2 nos     | 2 Nos | (i) Landless   |    |    |       |                               |    |       |                             |    |       |
|                        |                            |                              |                 |           |       | (ii) SF        |    |    |       |                               |    |       |                             |    |       |
|                        |                            |                              |                 |           |       | (iii) MF       | 15 | 10 | 25    | 15                            | 10 | 25    | NA                          | NA | NA    |
|                        |                            |                              |                 |           |       | (iv) LF        |    |    |       |                               |    |       |                             |    |       |
|                        |                            |                              |                 |           |       |                |    |    |       |                               |    |       |                             |    |       |



| 1                      | 2                      | 3                            |                 |           |       | 4              |    |    |       | 5                             |    |       | 6                           |    |       |
|------------------------|------------------------|------------------------------|-----------------|-----------|-------|----------------|----|----|-------|-------------------------------|----|-------|-----------------------------|----|-------|
| Names of the Districts | Names of projects      | Total no. of registered SHGs |                 |           |       | No. of members |    |    |       | No. of SC/ST in each category |    |       | No. of BPL in each category |    |       |
|                        |                        | With only Men                | With only Women | With both | Total | Categories     | M  | F  | Total | M                             | F  | Total | M                           | F  | Total |
| East Khasi Hills       | EKH. IWMP VI WAHUM SAI | -                            | -               | 2 nos     | 2 Nos | (i) Landless   |    |    |       |                               |    |       |                             |    |       |
|                        |                        |                              |                 |           |       | (ii) SF        |    |    |       |                               |    |       |                             |    |       |
|                        |                        |                              |                 |           |       | (iii) MF       | 15 | 10 | 25    | 15                            | 10 | 25    | NA                          | NA | NA    |
|                        |                        |                              |                 |           |       | (iv) LF        |    |    |       |                               |    |       |                             |    |       |

### iii) User Group

To manage the assets created and ensure their sustainability User Groups will be formed. The people have been sensitized on the importance of ensuring that the assets created are sustainably used and the essentiality of having User Groups for maintenance and operation of their assets.

**Table 3.4: User Group Details**

| 1                  | 2                 | 3                |       |      |       | 4              |   |     |       | 5                             |     |       | 6                           |     |       |
|--------------------|-------------------|------------------|-------|------|-------|----------------|---|-----|-------|-------------------------------|-----|-------|-----------------------------|-----|-------|
| Names of Districts | Names of Projects | Total no. of Ugs |       |      |       | No. of members |   |     |       | No. of SC/ST in each category |     |       | No. of BPL in each category |     |       |
|                    |                   | Men              | Women | Both | Total | Categories     | M | F   | Total | M                             | F   | Total | M                           | F   | Total |
|                    |                   |                  |       |      |       | (i) Landless   |   |     |       |                               |     |       |                             |     |       |
|                    |                   |                  |       |      |       | (ii) SF        |   |     |       |                               |     |       |                             |     |       |
|                    |                   |                  |       |      |       | (iii) MF       |   |     |       |                               |     |       |                             |     |       |
|                    |                   |                  |       |      |       | (iv) LF        |   |     |       |                               |     |       |                             |     |       |
| Total              |                   | Nil              | Nil   | Nil  | Nil   |                |   | Nil |       |                               | Nil |       |                             | Nil |       |

**CHAPTER IV**  
**PROJECT ACTIVITIES**

## CHAPTER IV PROJECT ACTIVITIES

### 4.1 Preparatory Phase:

#### i) Entry Point Activities (EPA)

(Financial – Rs. in lakh)

| 1              | 2         | 3                      | 4                                      | 5                              | 6                                 | 7                 | 8                       | 9       | 10                  | 11                |
|----------------|-----------|------------------------|--|--------------------------------|-----------------------------------|-------------------|-------------------------|---------|---------------------|-------------------|
| Sl.<br>N<br>o. | State     | Distri<br>ct           | Names of<br>Project                    | Amount<br>earmarked<br>for EPA | Entry Point<br>Activities planned | Estimated<br>cost | Expenditure<br>incurred | Balance | Expected<br>outcome | Actual<br>outcome |
| 1              | Meghalaya | East<br>Khasi<br>Hills | East<br>Khasi<br>Hills –<br>IWMP<br>VI | 6.0 Lakhs                      | Construction of<br>Check Dam      | 6.00              | 6.0                     | -       | N.A                 | N.A               |

ii) Other activities of Preparatory Phase:

| 1                | 2                          | 3                                       | 4                 | 5              | 6                              | 7                       | 8                                      | 9                   | 10                 | 11                | 12                         | 13                          |
|------------------|----------------------------|---|-------------------|----------------|--------------------------------|-------------------------|--|---------------------|--------------------|-------------------|----------------------------|-----------------------------|
| District         | Name of Projects           | Initiation of village level institution | Capacity building | IEC activities | Baseline survey                | Hydro-geological survey | Identifying technical support agencies | Resource agreements | Preparation of DPR | Evaluation of DPR | Any other (please specify) | Cost incurred (Rs. In lakh) |
| East Khasi Hills | East Khasi Hills – IWMP VI | 2 nos W/C                               | 4 nos.            | 4 nos.         | Participatory Rural Appraisals | N.A                     | Done                                   | Done                | Done               | Done              | -                          | 1.50                        |

4.2 Watershed Works Phase:

4.2.1 Activities related to surface water resources in the project areas:

| S<br>l.<br>No | Name of States | Name of Districts | Name of Projects      | Type of structures | 6           |                     |                  | 7   |                         |                  |                           |                                |                         |                             |                           |               |                         |                                    |                |
|---------------|----------------|-------------------|-----------------------|--------------------|-------------|---------------------|------------------|---|-------------------------|------------------|---------------------------|--------------------------------|-------------------------|-----------------------------|---------------------------|---------------|-------------------------|------------------------------------|----------------|
|               |                |                   |                       |                    | Pre Project |                     |                  | Proposed Project                            |                         |                  |                           |                                |                         |                             |                           |               |                         |                                    |                |
|               |                |                   |                       |                    | No          | Area irrigated (ha) | Storage capacity | Augmentation/ repair of existing structures |                         |                  |                           | Construction of new structures |                         |                             |                           | Total target  |                         |                                    |                |
|               |                |                   |                       |                    |             |                     |                  | No  | Area to be treated (ha) | Storage capacity | Estimated cost (in lakhs) | No                             | Area to be treated (ha) | Storage capacity (per unit) | Estimated cost (in lakhs) | No            | Area to be treated (ha) | Storage capacity (m <sup>3</sup> ) | Estimated cost |
|               |                |                   | (i) Check Dam         | -                  | -           | -                   | -                | -   | -                       | -                | 24 nos                    | 60 ha                          | 3000 m <sup>3</sup>     | 12.4                        | 24 nos                    | 60 ha         | -                       | 12.4                               |                |
|               |                |                   | (ii) Water harvesting | -                  | -           | -                   | -                | -   | -                       | -                | 13 nos                    | 140 ha                         | 3000 m <sup>3</sup>     | 12.04                       | 13 Nos                    | 140 Ha        | -                       | 12.04                              |                |
|               |                |                   | <b>Total</b>          | -                  | -           | -                   | -                | -   | -                       | -                | <b>37 Nos</b>             | <b>200Ha</b>                   | <b>-</b>                | <b>24.44</b>                | <b>37 nos</b>             | <b>200 ha</b> | <b>-</b>                | <b>24.44</b>                       |                |

| 8   |                     |                  |                                 |                                |                     |                    |                                 |                     |                    |                    | 9                                    | 10                                       |
|---|---------------------|------------------|---------------------------------|--------------------------------|---------------------|--------------------|---------------------------------|---------------------|--------------------|--------------------|--------------------------------------|--|
| Achievement due to project                  |                     |                  |                                 |                                |                     |                    |                                 |                     |                    |                    |                                      |  |
| Augmentation/ repair of existing structures |                     |                  |                                 | Construction of new structures |                     |                    |                                 | Total achievement   |                    |                    | Change in storage capacity (col 8-6) | Change in irrigated area (ha) Col. (8-6) |
| No  | Area irrigated (ha) | Storage capacity | Expenditure incurred (in lakhs) | No                             | Area irrigated (ha) | Storage capacity   | Expenditure incurred (in lakhs) | Area irrigated (ha) | Storage capacity   | Estimated incurred |                                      | -  |
| -   | -                   | -                | -                               | 24 nos                         | 60 ha               | 3000m <sup>3</sup> | 12.4                            | 60 ha               | 3000m <sup>3</sup> | 12.4               | 3000m <sup>3</sup>                   | 60 ha                                    |
| -   | -                   | -                | -                               | 13 nos                         | 40 ha               | 5000m <sup>3</sup> | 12.04                           | 40 ha               | 5000m <sup>3</sup> | 12.04              | 5000m <sup>3</sup>                   | 40 ha                                    |
|   |                     |                  |                                 |                                |                     |                    |                                 |                     |                    |                    |                                      |  |
|   |                     |                  |                                 |                                |                     |                    |                                 |                     |                    |                    |                                      |  |
|   |                     |                  |                                 |                                |                     |                    |                                 |                     |                    |                    |                                      |  |
|   |                     |                  |                                 |                                |                     |                    |                                 |                     |                    |                    |                                      |  |
|   |                     |                  |                                 |                                |                     |                    |                                 |                     |                    |                    |                                      |  |

#### 4.2.2 Activities related to recharging ground water resources in the project areas:

| 1   | 2                         | 3              | 4   | 5                             | 6           |                     | 7  |                           |                |   |                     |                      | 8                          |                     |  |                     |                      |   | 9 |  |                   |  |  |
|-----|---------------------------|----------------|-----|-------------------------------|-------------|---------------------|--|---------------------------|----------------|---|---------------------|----------------------|----------------------------|---------------------|--|---------------------|----------------------|---|---|--|-------------------|--|--|
|     |                           |                |     |                               | Pre-project |                     | Proposed target  |                           |                |   |                     |                      | Achievement due to project |                     |  |                     |                      |   |   |  |                   |  |  |
|     |                           |                |     |                               | No.         | Area irrigated (ha) | Augmentation/ repair of existing recharging structures |                           |                | Construction of new recharging structures |                     |                      | Total target               |                     | Augmentation/ repair of existing recharging structures |                     |                      | Construction of new recharging structures |   |  | Total achievement |  |  |
| No. | Area to be irrigated (ha) | Estimated cost | No. | Area to be irrigated (ha)     |             |                     | Estimated cost   | Area to be irrigated (ha) | Estimated cost | No.                                       | Area irrigated (ha) | Expenditure incurred | No.                        | Area irrigated (ha) | Expenditure incurred                                   | Area irrigated (ha) | Expenditure incurred |   |   |  |                   |  |  |
|     |                           |                |     | (i)Open wells                 |             |                     |  |                           |                |   |                     |                      |                            |                     |  |                     |                      |   |   |  |                   |  |  |
|     |                           |                |     | (ii)Bore wells                |             |                     |  |                           |                |   |                     |                      |                            |                     |  |                     |                      |   |   |  |                   |  |  |
|     |                           |                |     | (iii)Any others (Pl. specify) |             |                     |  |                           |                |   |                     |                      |                            |                     |  |                     |                      |   |   |  |                   |  |  |
|     |                           |                |     | Total for the project         |             |                     |  |                           |                |   |                     |                      |                            |                     |  |                     |                      |   |   |  |                   |  |  |

#### 4.2.3 Activities executed by User Groups in the Project Areas.

| Names of Districts | Names of Projects                                   | 3                                    |                |          |   |                     |                |                                     |
|--------------------|---|--------------------------------------|----------------|----------|---|---------------------|----------------|-------------------------------------|
|                    |   | Major activities of the UGs –Targets |                |          |   | No. of UGs involved | Estimated Cost | Amount of WDF to be collected (Rs.) |
|                    |   | Structure/ activity proposed         |                |          |   |                     |                |                                     |
| Sl. No.            | Type  | No.#                                 | Treatment (ha) |          |   |                     |                |                                     |
| East Khasi Hills   | East Khasi Hills – IWMP VI Upper tharia & Wah Umsai | 1.                                   | Piggery        | 60 units | - | 60 nos.             | 4.80           | 0.24                                |
|                    |   | 2.                                   | Poultry        | 60 units | - | 60 nos.             | 4.80           | 0.24                                |

**4.2.4 Activities executed by User Groups in the Project Areas:**

| 4  |                             |      |                    |                     |                            |                |      |      |                               |
|--|-----------------------------|------|--------------------|---------------------|----------------------------|----------------|------|------|-------------------------------|
| Major activities of the UGs – Achievements |                             |      |                    |                     |                            |                |      |      |                               |
| Structure/ activity                        |                             |      |                    | No. of UGs involved | Expenditure incurred (Rs.) | No. of mandays |      |      | Amount of WDF collected (Rs.) |
| Sl. No.                                    | Type                        | No.# | Treated Area (ha.) |                     |                            | SC             | ST   | F    |                               |
| 1.   | Water harvesting structures | 8    |                    | 8 nos               | 6.00                       |                | 3600 | 2000 | 0.30                          |

#### 4.2.5 Activities related to livelihoods by Self Help Groups (SHGs) in the project areas:

| 1                      | 2                          | 3                            |                      |   |
|------------------------|----------------------------|------------------------------|----------------------|---|
| Names of the Districts | Names of projects          | Major activities of the SHGs |                      |   |
|                        |                            | Name of activity             | No. of SHGs involved | Average annual income from activity per SHG |
| East Khasi Hills       | East Khasi Hills – IWMP VI | 1. Tailoring                 |                      |   |
|                        |                            | 2. Basket Making             |                      |   |
|                        |                            | 3. Stabilized Mud Block      |                      |   |
|                        |                            | 4. Piggery Farming           | 8 nos.               | 2.40  |
|                        |                            | 5. Canes & Handicraft        | 5 nos.               | 2.50  |

#### 4.2.6 Activities related to livelihoods by Self Help Groups (SHGs) in the project areas:

| 4                          | 5  |          |          |                      | 6                                   | 7                          | 8                     |    |     | 9  | 10                    |
|----------------------------|--|----------|----------|----------------------|-------------------------------------|----------------------------|-----------------------|----|-----|--|-----------------------|
| No. of SHGs given training | Total assistance received by the SHG (Amount in Rs.) |          |          |                      | Total annual Income generated (Rs.) | Total annual Savings (Rs.) | No. of SHGs Graded as |    |     | Total Amount of loan sanctioned by the bank(s) | No. of SHGs federated |
|                            | Loan from revolving fund                             | Training | Material | Others (pl. specify) |                                     |                            | I                     | II | III |  |                       |
|                            |  |          |          |                      |                                     |                            |                       |    |     |  |                       |
|                            |  |          |          |                      |                                     |                            |                       |    |     |  |                       |
|                            |  |          |          |                      |                                     |                            |                       |    |     |  |                       |
|                            |  |          |          |                      |                                     |                            |                       |    |     |  |                       |



**4.2.7 Other activities of watershed works phase:**

| 1        | 2                 | 3                    |       | 4                       |       | 5               |     | 6                |       | 7                   |      | 8                   |     | 9                   |       | 10                  |      | 11                      |     | 12                             |       | 13                                 |
|----------|-------------------|----------------------|-------|-------------------------|-------|-----------------|-----|------------------|-------|---------------------|------|---------------------|-----|---------------------|-------|---------------------|------|-------------------------|-----|--------------------------------|-------|------------------------------------|
| District | Names of projects | Ridge area treatment |       | Drainage line treatment |       | Nursery raising |     | Land development |       | Crop demonstrations |      | Pasture development |     | Veterinary services |       | Fishery development |      | Non-conventional energy |     | Any others (Off Farm services) |       | Total cost incurred (Rs. In lakhs) |
|          |                   | (a)                  | (b)   | (a)                     | (b)   | (a)             | (b) | (a)              | (b)   | (a)                 | (b)  | (a)                 | (b) | (a)                 | (b)   | (a)                 | (b)  | (a)                     | (b) |                                |       |                                    |
| EKH      | IWMP VI           | 300 ha               | 15.90 | 372 ha                  | 32.36 | -               | -   | 327.33 ha        | 26.74 | 44                  | 1.10 | -                   | -   | 138                 | 15.00 | 4                   | 1.20 | -                       | -   | 96                             | 17.20 | 109.50                             |

**4.2.8 Details of engineering structures in watershed works:**

| 1        | 2       | 3                          | 4                  |                        |                     | 5            |                |                            | 6  | 7                           |                              |   |   | 8           |   |                              |                                    |   |   |   |                      |   |
|----------|---------|----------------------------|--------------------|------------------------|---------------------|--------------|----------------|----------------------------|--|-----------------------------|------------------------------|---|---|-------------|---|------------------------------|------------------------------------|---|---|---|----------------------|---|
| District | Project | Name of structures         | Type of treatment  |                        |                     | Type of land |                |                            | Executing agency                                 | Target                      |                              |   |   | Achievement |   |                              |                                    |   |   |   |                      |   |
|          |         |                            | (i) Ridge area (R) | (ii) Drainage line (D) | (iii) Land Dev. (L) | (i) Private  | (ii) Community | (iii) Others (pl. specify) | (i) UG<br>(ii) SHG<br>(iii) Others (pl. specify) | No. of units (No./cum./rmt) | Estimated cost (Rs. in lakh) |   |   |             | Expected month & year of completion (mm/yyyy) | No. of units (No./cu.m./rmt) | Expenditure incurred (Rs. in lakh) |   |   |   | Status of completion | Actual month & year of completion (mm/yyyy) |
|          |         |                            |                    |                        |                     |              |                |                            |  |                             | M                            | W | O | T           |   |                              | M                                  | W | O | T |                      |   |
|          |         | Staggered trenching        |                    |                        |                     |              |                |                            |  |                             |                              |   |   |             |   |                              |                                    |   |   |   |                      |   |
|          |         | Loose boulder Contour bund | R                  | -                      | -                   | P            | -              | -                          | Beneficiary                                      | 67.33 Ha                    |                              |   |   |             | 3 yrs   | -                            | -                                  | - | - | - | -                    |   |
|          |         | Half moon terrace          | R                  | -                      | -                   | P            | -              | -                          | - do-  | 60 ha                       |                              |   |   |             | 3 yrs   |                              |                                    |   |   |   |                      |   |
|          |         | Water harvesting           |                    | D                      |                     | P            | -              | -                          | -do-   | 140 ha                      |                              |   |   |             | 3 yrs   |                              |                                    |   |   |   |                      |   |
|          |         | checks dams                |                    | D                      |                     | P            | -              | --                         | -do-   | 80 ha                       |                              |   |   |             | 3 yrs   |                              |                                    |   |   |   |                      |   |
|          |         | Protection wall            |                    | D                      |                     | P            |                |                            | -do-   | 152 ha                      |                              |   |   |             | 3 yrs   |                              |                                    |   |   |   |                      |   |
|          |         | Gully plug                 |                    |                        |                     |              |                |                            |  |                             |                              |   |   |             |   |                              |                                    |   |   |   |                      |   |
|          |         | Gabion structures          |                    |                        |                     |              |                |                            |  |                             |                              |   |   |             |   |                              |                                    |   |   |   |                      |   |
|          |         | Underground dykes          |                    |                        |                     |              |                |                            |  |                             |                              |   |   |             |   |                              |                                    |   |   |   |                      |   |
|          |         | Field bunds                |                    |                        |                     |              |                |                            |  |                             |                              |   |   |             |   |                              |                                    |   |   |   |                      |   |
|          |         | Any others (pl. specify)   |                    |                        |                     |              |                |                            |  |                             |                              |   |   |             |   |                              |                                    |   |   |   |                      |   |

Contd.

#### 4.2.9 Details of engineering structures in watershed works.

| 9                           |                    |                 |              |                      |              |              |              |                   |       |              |       |       |                      |     |        |       |       |
|-----------------------------|--------------------|-----------------|--------------|----------------------|--------------|--------------|--------------|-------------------|-------|--------------|-------|-------|----------------------|-----|--------|-------|-------|
| Outcomes                    |                    |                 |              |                      |              |              |              |                   |       |              |       |       |                      |     |        |       |       |
| Reduction in run off (cu.m) | Area treated# (ha) | Water level (m) |              | Production (quintal) |              | Income (Rs.) |              | Mandays generated |       |              |       |       | No. of beneficiaries |     |        |       |       |
|                             |                    | Pre-project     | Post project | Pre-project          | Post project | Pre-project  | Post project | SC                | ST    | Others (Men) | Women | Total | SC                   | ST  | Others | Women | Total |
| Na                          | 699 Ha             | Na              | -            | Na                   | -            | Na           | -            | -                 | 24600 | 14760        | 9840  | 24600 | -                    | 205 | 134    | 71    | 205   |

#### 4.2.10 Details of activities connected with vegetative cover in watershed works:

| 1            | 2           | 3                                 | 4                           |                                  |                              | 5                  |                           |  | 6  | 7            |                  |  |   | 8            |                      |  |   |
|--------------|-------------|-----------------------------------|-----------------------------|----------------------------------|------------------------------|--------------------|---------------------------|--|--|--------------|------------------|--|---|--------------|----------------------|--|---|
| Dist<br>rict | Pro<br>ject | Name of<br>structure/ work        | Type of treatment           |                                  |                              | Type of land       |                           |  | Executing<br>agency                                | Target       |                  |  |   | Achievement  |                      |  |   |
|              |             |                                   | (i)<br>Ridge<br>area<br>(R) | (ii)<br>Draina<br>ge line<br>(D) | (iii)<br>Land<br>dev.<br>(L) | (i)<br>Priv<br>ate | (ii)<br>Com<br>muni<br>ty | (iii)<br>Other<br>s (pl.<br>speci<br>fy) | (i) UG<br>(ii)SHG<br>(iii) Others<br>(pl. specify) | Area<br>(ha) | No. of<br>plants | Estimat<br>ed cost<br>(Rs. in<br>lakh) | Expecte<br>d month<br>& year<br>of comple-<br>tion<br>(mm/<br>yyyy) | Area<br>(ha) | No.<br>of plant<br>s | Expendi-<br>ture<br>incurred<br>(Rs. in<br>lakh) | Actual<br>month &<br>year of<br>comple-tion<br>(mm/ yyyy) |
|              |             | Afforestation                     |                             |                                  |                              |                    | ✓                         |  |  | 100<br>Ha    |                  | 9.70                                   | 3 Yrs   |              |                      |  |   |
|              |             | Regeneration                      |                             |                                  |                              |                    |                           |  |  |              |                  |  |   | -            | -                    | -  | -   |
|              |             | Improvement of<br>existing forest |                             |                                  |                              |                    | ✓                         |  |  | 200<br>ha    |                  | 6.20                                   | 3yrs  | -            | -                    | -  | -   |
|              |             | Fuel wood                         |                             |                                  |                              |                    |                           |  |  |              |                  |  |   |              |                      |  |   |
|              |             | Fodder                            |                             |                                  |                              |                    |                           |  |  |              |                  |  |   |              |                      |  |   |
|              |             | Agro-<br>Horticulture             |                             |                                  |                              | ✓                  |                           |  |  | 200<br>ha    |                  | 17.2                                   | 3 yrs   | -            | -                    | -  | -   |

# in case two or more activities are executed over same area, the figures in area treated should be accounted only once and should reflect only the actual watershed area treated.

**4.2.11 Details of vegetative structures in watershed works: Phase – II (contd.):**

| 9                           |                      |              |              |              |                   |        |        |       |       |                      |    |        |       |       |
|-----------------------------|----------------------|--------------|--------------|--------------|-------------------|--------|--------|-------|-------|----------------------|----|--------|-------|-------|
| Outcomes                    |                      |              |              |              |                   |        |        |       |       |                      |    |        |       |       |
| Reduction in run off (cu.m) | Production (quintal) |              | Income (Rs.) |              | Mandays generated |        |        |       |       | No. of beneficiaries |    |        |       |       |
|                             | Pre-project          | Post-project | Pre-project  | Post-project | SC                | S<br>T | Others | Women | Total | SC                   | ST | Others | Women | Total |
|                             |                      |              |              |              |                   |        |        |       |       |                      |    |        |       |       |
|                             |                      |              |              |              |                   |        |        |       |       |                      |    |        |       |       |
|                             |                      |              |              |              |                   |        |        |       |       |                      |    |        |       |       |
|                             |                      |              |              |              |                   |        |        |       |       |                      |    |        |       |       |
|                             |                      |              |              |              |                   |        |        |       |       |                      |    |        |       |       |
|                             |                      |              |              |              |                   |        |        |       |       |                      |    |        |       |       |
|                             |                      |              |              |              |                   |        |        |       |       |                      |    |        |       |       |
|                             |                      |              |              |              |                   |        |        |       |       |                      |    |        |       |       |
|                             |                      |              |              |              |                   |        |        |       |       |                      |    |        |       |       |
|                             |                      |              |              |              |                   |        |        |       |       |                      |    |        |       |       |
|                             |                      |              |              |              |                   |        |        |       |       |                      |    |        |       |       |
|                             |                      |              |              |              |                   |        |        |       |       |                      |    |        |       |       |

#### 4.2.12 Details of allied / other activities:

| 1  | 2               | 3   | 4            |                |                         | 5  | 6                            |   | 7                                  |   |
|--|-----------------|---|--------------|----------------|-------------------------|--|------------------------------|---|------------------------------------|---|
| District   | Project         | Name of activity@   | Type of land |                |                         | Executing agency<br>(i) UG<br>(ii)SHG<br>(iii) Others<br>(pl. specify) | Target                       |   | Achievement                        |   |
|  |                 |   | (i) Private  | (ii) Community | (iii) Others (landless) |  | Estimated cost (Rs. in lakh) | Expected month & year of completion (mm/yyyy) | Expenditure incurred (Rs. in lakh) | Actual month & year of completion (mm/yyyy) |
| East Khasi Hills<br>Upper Tharia<br>& Wah Umsai<br>Watersheds<br><br>IWMP VI |                 | Tailoring – 40 units  | -            | -              | 40 units                | Individual   | 3.20                         | 3 yrs.  |                                    |   |
|  |                 | Carpentry/ Agri-<br>implements/ Basket<br>making etc – 110 nos. |              |                | 14 units                | Individual   | 0.70                         | 3 yrs.  |                                    |   |
|  |                 | Piggery Farming   |              |                | 8 units                 | SHG's  | 2.40                         | 3 yrs.  |                                    |   |
|  |                 | Poultry farming   |              |                | 10 units                | SHG's  | 3.00                         | 3 yrs.  |                                    |   |
|  |                 | Kitchen gardening   |              |                | 44 units                | Individual   | 1.10                         | 3 yrs.  |                                    |   |
|  |                 | Hollow block making   |              |                | 8 units                 | Individual   | 0.40                         | 3 yrs.  |                                    |   |
|  |                 | Canes & handicrafts.  |              |                | 10 units                | SHG's  | 2.50                         | 3 yrs.  |                                    |   |
|  |                 | Grocery shop  |              |                | 8 Units                 | SHG's  | 2.40                         | 3 yrs.  |                                    |   |
|  | Piggery/poultry |   |              | 120 units      | Individual              | 9.60   | 3 Yrs                        |   |                                    |   |

(Contd.)

\* from column no. 2, no. of States; from column no. 3, no. of Districts; from column no. 4, total no. of Projects; from column no. 5, activity-wise totals, from column no. 6, type-wise totals, from column no. 7, agency-wise totals, from column no. 8, total estimated cost, from column no. 9, total expenditure incurred, structure-wise no. of completed works, from column no. 10, item-wise totals, for the entire country may be indicated at the end of the table

@The activities given in this column are merely indicative and States are free to choose any other activity suited to the project area.

#### 4.2.13 Details of allied / other activities:

| 8            |              |                   |        |        |       |       |                      |     |        |       |       |
|--------------|--------------|-------------------|--------|--------|-------|-------|----------------------|-----|--------|-------|-------|
| Outcomes     |              |                   |        |        |       |       |                      |     |        |       |       |
| Income (Rs.) |              | Mandays generated |        |        |       |       | No. of beneficiaries |     |        |       |       |
| Pre-project  | Post project | SC                | S<br>T | Others | Women | Total | SC                   | ST  | Others | Women | Total |
|              |              |                   |        |        |       |       |                      | 262 | 170    | 92    | 292   |

### 4.3 Consolidation and withdrawal phase

#### Details of activities in the CPRs in the project areas:

| 1                | 2       | 3           | 4 | 5                           | 6                                   |                             |                               |                                     | 7                                    |                            |                             |                |  |  |                     |
|------------------|---------|-------------|---|-----------------------------|-------------------------------------|-----------------------------|-------------------------------|-------------------------------------|--------------------------------------|----------------------------|-----------------------------|----------------|--|--|---------------------|
|                  |         |             |   |                             | Target                              |                             |                               |                                     | Achievement                          |                            |                             |                |  |  |                     |
|                  |         |             |   |                             | Target area under the activity (ha) | Estimated expenditure (Rs.) | Expected no. of beneficiaries | Estimated contribution to WDF (Rs.) | Area treated under the activity (ha) | Expenditure incurred (Rs.) | Actual no. of beneficiaries | No. of mandays |  |  | WDF collected (Rs.) |
| SC               | ST      | F           |   |                             |                                     |                             |                               |                                     |                                      |                            |                             |                |  |  |                     |
| East Khasi Hills | IWMP VI | Mawsiangei  |   | Water harvesting structures | 5.00                                |                             | 0.25                          |                                     |                                      |                            |                             |                |  |  |                     |
|                  |         | Suktia      |   |                             |                                     |                             |                               |                                     |                                      |                            |                             |                |  |  |                     |
|                  |         | Nongla      |   |                             |                                     |                             |                               |                                     |                                      |                            |                             |                |  |  |                     |
|                  |         | Tyrngei     |   |                             |                                     |                             |                               |                                     |                                      |                            |                             |                |  |  |                     |
|                  |         | Tyrna       |   |                             |                                     |                             |                               |                                     |                                      |                            |                             |                |  |  |                     |
|                  |         | Mawshamok   |   |                             |                                     |                             |                               |                                     |                                      |                            |                             |                |  |  |                     |
|                  |         | Nongthymmai |   |                             |                                     |                             |                               |                                     |                                      |                            |                             |                |  |  |                     |
|                  |         | Lumsophie   |   |                             |                                     |                             |                               |                                     |                                      |                            |                             |                |  |  |                     |
| TOTAL            |         |             |   |                             | 5.00                                |                             | 0.25                          |                                     |                                      |                            |                             |                |  |  |                     |

**CHAPTER V**  
**PROJECT PHASING & BUDGETING**



## CHAPTER V PROJECT PHASING & BUDGETING

### ACTION PLAN OF IWMP PROJECT VI (WAH UMSAI & UPPER THARIA WATERSHED UNDER SHELLA-BHOLAGANJ CRD BLOCK)

Name of District: East Khasi Hills

No. of villages – 8 Nos.

Name of C&RD Block: Shella Bholaganj

Project Area – 1000 Ha.

| Sl. No    | Activities   | I <sup>st</sup> Year |     | II <sup>nd</sup> Year |            | III <sup>rd</sup> Year |            | IV <sup>th</sup> Year |            | V <sup>th</sup> Year |          | Total      |             |
|-----------|--|----------------------|-----|-----------------------|------------|------------------------|------------|-----------------------|------------|----------------------|----------|------------|-------------|
|           |  | Phy                  | Fin | Phy                   | Fin        | Phy                    | Fin        | Phy                   | Fin        | Phy                  | Fin      | Phy        | Fin         |
| 1         | 2  | 3                    | 4   | 5                     | 6          | 7                      | 8          | 9                     | 10         | 11                   | 12       | 13         | 14          |
| <b>I</b>  | <b>MANAGEMENT COST:</b>  |                      |     |                       |            |                        |            |                       |            |                      |          |            |             |
| <b>A.</b> | <b>Administrative cost:</b>  |                      |     | <b>3%</b>             | <b>4.5</b> | <b>2%</b>              | <b>3.0</b> | <b>2%</b>             | <b>3.0</b> | <b>-</b>             | <b>-</b> | <b>10%</b> | <b>15.0</b> |
| i.        | Honourarium of WDT Members @ Rs. 5000/ month – 1 no.                 |                      |     | 12 Months             | 0.6        | 12 months              | 0.6        | 12 months             | 0.6        | -                    | -        | 3 yrs      | 1.8         |
| ii.       | Hon <sup>m</sup> of Watershed Volunteers @ Rs. 2500/- month – 2 nos. |                      |     | 12 Months             | 0.6        | 12 months              | 0.6        | 12 months             | 0.6        | -                    | -        | 3 yrs      | 1.8         |
| iii.      | Hon <sup>m</sup> WCO's @ Rs. 750/ month.                             |                      |     | 12 Months             | 0.09       | 12 months              | 0.09       | 12 months             | 0.09       | -                    | -        | 3 yrs      | 0.27        |
| iv.       | Hon <sup>m</sup> WCM @ Rs. 100/members/ month for 25 nos.            |                      |     | 12 Months             | 0.30       | 12 months              | 0.3        | 12 months             | 0.3        | -                    | -        | 3 yrs      | 0.9         |
| v.        | Hon <sup>m</sup> Office assistance @ Rs. 3000/- month.               |                      |     | 12 Months             | 0.36       | 12 months              | 0.36       | 12 months             | 0.36       | -                    | -        | 3 yrs      | 1.08        |
| vi.       | Hon <sup>m</sup> Chartered Accountant                                |                      |     | 12 Months             | 0.15       | 12 months              | 0.15       | 12 months             | 0.15       | -                    | -        | 3 yrs      | 0.45        |
| vii.      | TA/DA of Field Asstt. @ 5000/ month                                  |                      |     | 6 months              | 0.3        | 12 months              | 0.6        | 12 months             | 0.6        | -                    | -        | 2.5 yrs    | 1.5         |
| viii.     | Hiring charges of office building @ 1000                             |                      |     | -                     | -          | 12 months              | 0.12       | 12 months             | 0.12       | -                    | -        | 2 yrs      | 0.24        |
| ix.       | Hiring charges of vehicle @ 5000/ month                              |                      |     | 6 months              | 0.3        | 12 months              | 0.6        | 12 months             | 0.6        | -                    | -        | 2.5 yrs    | 1.5         |

|           |  |              |             |              |             |              |              |              |             |              |           |               |              |
|-----------|--|--------------|-------------|--------------|-------------|--------------|--------------|--------------|-------------|--------------|-----------|---------------|--------------|
| x         | Office expenses, POL, Stationeries, printing of SHG's books, pamphlets, tea, snacks etc, cost of camera. |              |             | -            | 0.3         | -            | 4.08         | -            | 1.08        | -            |           | -             | 5.46         |
|           | <b>Total of A:</b>   |              |             | <b>2.00%</b> | <b>3.00</b> | <b>5.00%</b> | <b>7.50</b>  | <b>3.00%</b> | <b>4.5</b>  | <b>0.00%</b> | <b>0</b>  | <b>10.00%</b> | <b>15</b>    |
|           | <b>PREPARATORY PHASE:</b>  |              |             |              |             |              |              |              |             |              |           |               |              |
| <b>B.</b> | <b>Entry Point Activities:</b>   | <b>4%</b>    | <b>6.00</b> | -            | -           | -            | -            | -            | -           | -            | -         | <b>4%</b>     | <b>6.00</b>  |
| i.        | Construction of check dam/Water harvesting   | 4 Units      | 6.00        | -            | -           | -            | -            | -            | -           | -            | -         | 4 Units       | 6.00         |
|           | <b>Total of B:</b>   | <b>4 %</b>   | <b>6.0</b>  |              |             |              |              |              |             |              |           | <b>4%</b>     | <b>6.00</b>  |
| <b>C.</b> | <b>Training:</b>   | <b>1%</b>    | <b>1.5</b>  | <b>2%</b>    | <b>3.00</b> | <b>1%</b>    | <b>1.5</b>   | <b>1%</b>    | <b>1.5</b>  | -            | -         | <b>5%</b>     | <b>7.5</b>   |
| i.        | Awareness Campaign & Capacity building   | 2 nos        | 0.6         | -            | -           | -            | -            | -            | -           | -            | -         | 2 nos         | 0.6          |
| ii.       | Exposure visits – off. Campus  |              |             | 2 nos        | 0.6         | -            | -            | 1 no.        | 0.3         | -            | -         | 3 nos         | 0.9          |
| iii.      | Capacity building of SHG's/ UG's.  | 2 nos.       | 0.3         | 2 nos.       | 1.0         | 4 nos.       | 1.0          | 2 nos.       | 0.6         | -            | -         | 9 nos.        | 2.9          |
| iv.       | Capacity building of WC Members.   | 2 nos.       | 0.3         | 4 nos.       | 0.75        | 2 nos.       | 0.25         | 2 nos.       | 0.3         | -            | -         | 10 nos.       | 1.6          |
| v.        | Capacity of WDT/WV   | 2 nos.       | 0.3         | 4 nos.       | 0.65        | 2 nos.       | 0.25         | 2 nos.       | 0.3         | -            | -         | 10nos.        | 1.5          |
|           | <b>Total of C:</b>   | <b>1%</b>    | <b>1.5</b>  | <b>2.00%</b> | <b>3.00</b> | <b>1.00%</b> | <b>1.5</b>   | <b>1%</b>    | <b>1.5</b>  | -            | -         | <b>5%</b>     | <b>7.5</b>   |
| <b>1</b>  | <b>2</b>   | <b>3</b>     | <b>4</b>    | <b>5</b>     | <b>6</b>    | <b>7</b>     | <b>8</b>     | <b>9</b>     | <b>10</b>   | <b>11</b>    | <b>12</b> | <b>13</b>     | <b>14</b>    |
| <b>D.</b> | <b>Detailed Project Report:</b>  | <b>1 %</b>   | <b>1.50</b> | -            | -           | -            | -            | -            | -           | -            | -         | <b>1 %</b>    | <b>1.50</b>  |
| i.        | Cost of Resources Inventories works  | -            | 0.25        | -            | -           | -            | -            | -            | -           | -            | -         | -             | 0.25         |
| ii.       | Cost of PRA Exercises  | -            | 0.50        | -            | -           | -            | -            | -            | -           | -            | -         | -             | 0.50         |
| iii.      | Cost of Land use Survey works  | -            | 0.25        | -            | -           | -            | -            | -            | -           | -            | -         | -             | 0.25         |
| iv.       | Cost of formulating  | -            | 0.50        | -            | -           | -            | -            | -            | -           | -            | -         | -             | 0.50         |
|           | <b>Total of D:</b>   | <b>1 %</b>   | <b>1.50</b> | -            | -           | -            | -            | -            | -           | -            | -         | <b>1 %</b>    | <b>1.50</b>  |
| <b>E.</b> | <b>Monitoring &amp; Evaluation:</b>  |              |             | 0.20%        | 0.3         | 0.50%        | 0.75         | 0.3%         | 0.45        |              |           | 1%            | 1.5          |
| i.        | Cost of Honorarium to evaluator.   | -            | -           | 0.30%        | 0.45        | 0.50%        | 0.75         | 0.20%        | 0.3         | -            | -         | 1%            | 1.5          |
| ii.       | Cost of printing report etc.   |              |             | <b>0.50%</b> | <b>0.75</b> | <b>1.00%</b> | <b>1.5</b>   | <b>0.50%</b> | <b>0.75</b> | -            | -         | <b>2.00%</b>  | <b>3</b>     |
|           | <b>Total of E:</b>   | <b>6.00%</b> | <b>9</b>    | <b>4.50%</b> | <b>6.75</b> | <b>7.00%</b> | <b>10.50</b> | <b>4.50%</b> | <b>6.75</b> |              |           | <b>22.00%</b> | <b>33.00</b> |
|           | <b>Total of I (A to E)</b>   |              |             |              |             |              |              |              |             |              |           |               |              |
| <b>II</b> | <b>PROJECT COST:</b>   | -            | -           |              |             | -            | -            | -            | -           | -            | -         | -             | -            |
| <b>A.</b> | <b>Arable Land Treatment:</b>  | -            | -           | -            | -           | -            | -            | -            | -           | -            | -         | -             | -            |
| i.        | Loose boulder Contour Bunds @ Rs. 7500/ ha for 67.33 ha  | -            | -           | 13.33 ha     | 0.99        | 53.06 Ha     | 3.98         | 0.94 Ha      | 0.07        | -            | -         | 67.33 ha      | 5.04         |
| ii.       | Agro-Horticulture Devt. Rs. 8600/ ha for 200 ha  | -            | -           | 200 ha       | 2.60        | 200 Ha(M)    | 9.20         | 200 ha (M)   | 5.40        | -            | -         | 200 ha        | 17.2         |

|           |   |          |          |               |              |            |              |               |              |           |           |               |              |
|-----------|---|----------|----------|---------------|--------------|------------|--------------|---------------|--------------|-----------|-----------|---------------|--------------|
| iii.      | Half moon Terrace @Rs7500 for 60 Ha                                     | -        | -        |               |              |            | 4.50         |               | -            |           |           | 60 Ha         | 4.50         |
|           | <b>Total of A:</b>  |          |          |               | <b>3.59</b>  |            | <b>17.68</b> |               | <b>5.47</b>  |           |           |               | <b>26.74</b> |
| <b>B.</b> | <b>Non- Arable Land Treatment:</b>                                      |          |          |               |              |            |              |               |              |           |           |               |              |
| i         | Non-Pine Afforestation@ Rs.10,100/ha for 100 ha                         | -        | -        | 100 ha        | 1.70         | 100 ha (M) | 5.50         | 100 ha(M)     | 2.50         | -         | -         | 100 ha        | 9.7          |
| ii        | Improvement of existing Degraded Forest @ Rs. 3600/ ha for 200 ha       | -        | -        | 200 ha        | 1.40         | 200ha ( M) | 3.80         | 200 ha(M)     | 1.00         | -         | -         | 200 ha        | 6.2          |
|           | <b>Total of B:</b>  | -        | -        | <b>300 Ha</b> | <b>3.10</b>  | 300 ha     | <b>9.30</b>  | <b>300 Ha</b> | <b>3.50</b>  | -         | -         | <b>300 Ha</b> | <b>15.9</b>  |
| <b>C</b>  | <b>Drainage Line Treatment:</b>   | -        | -        |               |              |            |              |               |              |           |           |               |              |
| i.        | Water Harvesting Structures as per estimate for 140 ha                  | -        | -        | 8 nos         | 2.28         | 8 nos      | 9.76         |               | -            |           |           | 16 nos        | 12.04        |
| ii.       | Check Dam for Water Distribution Works @Rs.32,000 benefited area: 80 Ha | -        | -        |               |              | 20 nos     | 6.40         |               |              |           |           | 20 nos        | 6.40         |
| iii.      | Protection Wall @Rs.22,830 Benefited area:152 ha                        | -        | -        | 10 nos        | 2.283        | 41 nos     | 9.36         | 10 nos        | 2.28         |           |           | 61 nos        | 13.92        |
|           | <b>Total of C :</b>   | -        | -        |               | <b>45.63</b> |            | <b>25.52</b> |               | <b>2.28</b>  |           |           |               | <b>32.36</b> |
|           | <b>Total of A + B + C</b>   | -        | -        |               | <b>11.25</b> |            | <b>52.50</b> |               | <b>11.25</b> |           |           |               | <b>75.0</b>  |
| <b>1</b>  | <b>2</b>  | <b>3</b> | <b>4</b> | <b>5</b>      | <b>6</b>     | <b>7</b>   | <b>8</b>     | <b>9</b>      | <b>10</b>    | <b>11</b> | <b>12</b> | <b>13</b>     | <b>14</b>    |
| <b>D</b>  | <b>Livelihood Activities for landless persons:</b>                      |          |          |               |              |            |              |               |              |           |           |               |              |
| i.        | Tailoring @ Rs. 8,000/-   | -        | -        | 10 Units      | 0.80         |            |              | 30 Units      | 2.40         |           |           | 40 Units      | 3.2          |
| ii.       | Carpentry/ Agri- Implements/ Basket Making etc @ Rs. 5000/-             | -        | -        | 14 units      | 0.70         |            |              |               |              |           |           | 14 Units      | 0.70         |
| iii.      | Hollow Block making/ Stabilized Mud block making Rs. 5000/-             | -        | -        | -             | -            | -          | -            | 8units        | 0.40         | -         | -         | 8 Units       | 0.40         |
| iv.       | Poultry/Pigerry @Rs.8000  | -        | -        | -             | -            | 40 Units   | 3.20         | 80 Units      | 6.40         | -         | -         | 120 Units     | 9.6          |
| v.        | Kitchen Gardening @Rs.2,500   | -        | -        |               |              | 44 Units   | 1.10         | -             | -            | -         | -         | 44 Units      | 1.10         |
|           | <b>Total of D:</b>  |          |          | <b>1 %</b>    | <b>1.50</b>  | <b>3 %</b> | <b>4.50</b>  | <b>6 %</b>    | <b>9.00</b>  |           |           | <b>10%</b>    | <b>15.00</b> |
| <b>E.</b> | <b>Production System and Micro Enterprises (SHG's):</b>                 |          |          |               |              |            |              |               |              |           |           |               |              |
| i.        | Betel nut soaking Tank @ Rs. 50,000/- as per estimate                   | -        | -        | -             | -            | -          | -            | 16 Units      | 8.00         |           |           | 16 Units      | 8.00         |
| ii        | Pisciculture @ Rs. 30,000/ unit   | -        | -        |               |              | 4 Units    | 1.20         |               |              |           |           | 4 Units       | 1.20         |

|           |  |           |             |            |              |            |              |            |              |           |             |             |              |
|-----------|--|-----------|-------------|------------|--------------|------------|--------------|------------|--------------|-----------|-------------|-------------|--------------|
| iii       | Piggery farming @ 30,000/ unit   | -         | -           | 3 units    | 0.90         | 5 Units    | 1.50         |            |              |           |             | 8Units      | 2.40         |
| iv        | Poultry farming @ Rs. 30,000/ unit   | -         | -           | 2 Units    | 0.60         | 8 Units    | 2.40         |            |              |           |             | 10<br>Units | 3.00         |
| v         | Canes & Handicrafts @ Rs.25,000/ unit                                      | -         | -           |            |              |            |              | 10Units    | 2.50         |           |             | 10<br>Units | 2.50         |
| vi        | Grocery shop @ Rs.30,000   |           |             | -          | -            | 8 Units    | 2.40         | -          | -            | -         | -           | 8Units      | 2.40         |
|           | <b>Total of E :</b>  | -         | -           | <b>1 %</b> | <b>1.5</b>   | <b>5 %</b> | <b>7.50</b>  | <b>7 %</b> | <b>10.50</b> | -         | -           | <b>13 %</b> | <b>19.50</b> |
| <b>F.</b> | <b>Consolidation &amp; Exit Phase:</b>                                     | -         | -           | -          | -            | -          | -            | -          | -            | -         | -           | -           | -            |
| i.        | Repairs, Maintenance of CPR's.   | -         | -           | -          | -            | -          | -            | -          | -            | -         | -           | 3.00        | 3.00         |
| ii.       | Improving the sustainability of various Interventions                      | -         | -           | -          | -            | -          | -            | -          | -            | -         | -           | 2.00        | 2.00         |
| iii.      | Documentation of successful experiences & Preparation of Completion Report | -         | -           | -          | -            | -          | -            | -          | -            | -         | -           | 2.50        | 2.50         |
|           | <b>Total of F:</b>   | -         | -           | -          | -            | -          | -            | -          | -            | -         | -           | <b>7.50</b> | <b>7.50</b>  |
|           | <b>Total of II (A+B+C+D+E+F)</b>   | -         | -           | -          | <b>14.25</b> | -          | <b>64.50</b> | -          | <b>30.75</b> | -         | -           | <b>7.50</b> | <b>117.0</b> |
|           | <b>Grand Total (I + II)</b>  | <b>6%</b> | <b>9.00</b> | <b>14%</b> | <b>21.00</b> | <b>50%</b> | <b>75.00</b> | <b>25%</b> | <b>37.50</b> | <b>5%</b> | <b>7.50</b> | <b>100%</b> | <b>150</b>   |

submitted:-

**VILLAGE WISE ACTION PLAN OF UPPER THARIA WATERSHED UNDER IWMP – VI,  
TERRITORIAL DIVISION: SHILLONG.**

Name of District: East Khasi Hills  
Name of C&RD Block: Shella & Bholaganj

No. of villages – 4 nos.  
Project Area – 500 Ha.

| Sl. No    | Activities  | Suktia |               | Nongla       |               | Mawsiangei     |               | Tyrngei       |               | Total         |               |              |
|-----------|---|--------|---------------|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|--------------|
|           |   | Phy    | Fin           | Phy          | Fin           | Phy            | Fin           | Phy           | Fin           | Phy           | Fin           |              |
| 1         | 2   | 3      | 4             | 5            | 6             | 7              | 8             | 9             | 10            | 11            | 12            |              |
| <b>I</b>  | <b>WATERSHED WORKS PHASE :</b>                                  |        |               |              |               |                |               |               |               | -             | -             |              |
| <b>A.</b> | <b>Arable Land Treatment:</b>                                   |        | HA            |              | HA            |                | HA            |               | HA            |               | HA            |              |
| i.        | Loose boulder Contour Bunds @ ` 7500/ ha for 33.60 ha           | 7500   | 8.282         | 0.621        | 8.282         | 0.621          | 8.282         | 0.62          | 8.747         | 0.66          | 33.6          | 2.52         |
| ii.       | Agro-Horticulture Devt. ` 8600/ ha for 100 ha                   | 8600   | 25            | 2.150        | 25            | 2.150          | 25            | 2.15          | 25            | 2.15          | 100           | 8.600        |
| iii.      | Half Moon Terrace @ 7500 for 30 ha                              | 7500   | 7.5           | 0.563        | 7.5           | 0.563          | 7.5           | 0.5625        | 7.5           | 0.5625        | 30            | 2.250        |
|           | <b>TOTAL (A)</b>  |        | <b>40.782</b> | <b>3.334</b> | <b>40.782</b> | <b>3.33365</b> | <b>40.782</b> | <b>3.3337</b> | <b>41.247</b> | <b>3.3685</b> | <b>163.59</b> | <b>13.37</b> |
| <b>B.</b> | <b>Non- Arable Land Treatment:</b>                              |        |               |              |               |                |               |               |               |               |               |              |
| i.        | Agro-Forestry Devt. works @ ` 10,100/ ha for 50 ha              | 10100  | 12.5          | 1.215        | 12.5          | 1.215          | 12.5          | 1.215         | 12.5          | 1.215         | 50            | 4.850        |
| ii.       | Improvement of existing Degraded Forest @ ` 3600/ ha for 110 ha | 3600   | 25            | 0.775        | 25            | 0.775          | 25            | 0.775         | 25            | 0.775         | 100           | 3.100        |
|           | <b>TOTAL (B)</b>  |        | <b>37.5</b>   | <b>1.99</b>  | <b>37.5</b>   | <b>1.99</b>    | <b>37.5</b>   | <b>1.99</b>   | <b>37.5</b>   | <b>1.99</b>   | <b>150</b>    | <b>7.95</b>  |

|            |   |       |       |              |       |              |       |              |       |              |            |              |
|------------|---|-------|-------|--------------|-------|--------------|-------|--------------|-------|--------------|------------|--------------|
| <b>C</b>   | <b>Drainage Line Treatment:</b>                           |       |       |              |       |              |       |              |       |              |            |              |
| i.         | Water Harvesting Structures-BA 70 Ha                      |       | 4 Nos | 1.676        | 3 Nos | 1.448        | 3 Nos | 1.448        | 3 Nos | 1.448        | 13 Nos.    | 6.02         |
| ii.        | Check dam – BA 40 ha                                      |       | 3 nos | 0.96         | 2 nos | 0.64         | 2 nos | 0.64         | 3 nos | 0.96         | 10 Nos.    | 3.20         |
| iii.       | Protection Wall - BA 76 Ha                                | 22830 | 8     | 1.826        | 7     | 1.598        | 7     | 1.5981       | 8     | 1.94         | 30         | 6.96         |
|            | <b>TOTAL ©</b>  |       |       | <b>4.462</b> |       | <b>3.686</b> |       | <b>3.686</b> |       | <b>4.344</b> |            | <b>16.18</b> |
|            | <b>Total of I:</b>  |       |       | <b>9.786</b> |       | <b>9.010</b> |       | <b>9.010</b> |       | <b>9.703</b> | <b>25%</b> | <b>37.5</b>  |
| <b>II.</b> | <b>Livelihood Activities for landless persons:(10%)</b>   |       | units |              | units |              | units |              | units |              | units      |              |
| i.         | Tailoring @ ` 8,000/-                                     | 8000  | 5     | 0.4          | 5     | 0.4          | 5     | 0.40         | 5     | 0.4          | 20         | 1.600        |
| ii.        | Carpentry/ Agri- Implements/ Basket Making etc @ ` 5000/- | 5000  | 2     | 0.1          | 2     | 0.1          | 1     | 0.05         | 2     | 0.1          | 7          | 0.350        |
| iii.       | Piggery/Poultry @ ` 8000/ unit                            | 8000  | 15    | 1.2          | 15    | 1.2          | 15    | 1.20         | 15    | 1.2          | 60         | 4.800        |
| iv.        | Kitchen Gardening @ ` 2500/-                              | 2500  | 7     | 0.175        | 4     | 0.1          | 4     | 0.10         | 7     | 0.175        | 22         | 0.550        |
| v          | Masonry / Hollow block making @ ` 5,000/                  | 5000  | 2     | 0.1          |       |              | 1     | 0.05         | 1     | 0.05         | 4          | 0.200        |
|            | <b>Total of II.:</b>                                      |       |       | <b>1.98</b>  |       | <b>1.80</b>  |       | <b>1.80</b>  |       | <b>1.93</b>  |            | <b>7.50</b>  |

| <b>III.</b> | <b>Production System and Micro Enterprises (SHG's):</b> |       |          |              |          |              |          |              |          |              |              |              |
|-------------|---|-------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|--------------|--------------|
| i.          | Betel nut soaking Tank @ ` 50,000/-                     | 50000 | 2        | 1.00         | 2        | 1.00         | 2        | 1.00         | 2        | 1.00         | 8            | 4.000        |
| ii          | Pisciculture @ ` 30,000/                                | 30000 | 1        | 0.3          |          |              |          |              | 1        | 0.3          | 2            | 0.600        |
| iii.        | Piggery farming @ ` 30,000/                             | 30000 | 1        | 0.3          | 1        | 0.3          | 1        | 0.30         | 1        | 0.3          | 4            | 1.200        |
| iv.         | Poultry Farming @ ` 30,000/                             | 30000 | 2        | 0.6          | 1        | 0.3          | 1        | 0.30         | 1        | 0.3          | 5            | 1.500        |
| v           | Grocery shop @ ` 30,000/                                | 30000 | 1        | 0.3          | 1        | 0.3          | 1        | 0.30         | 1        | 0.3          | 4            | 1.200        |
| vi          | Canes & Handicrafts @ ` 25,000/ unit                    | 25000 | 2        | 0.5          | 1        | 0.25         | 1        | 0.25         | 1        | 0.25         | 5            | 1.250        |
|             | <b>Total of III:</b>                                    |       |          | <b>3.00</b>  |          | <b>2.15</b>  |          | <b>2.15</b>  |          | <b>2.45</b>  | <b>7%</b>    | <b>9.75</b>  |
|             | <b>Grand Total (I+II+III)</b>                           |       |          | <b>14.76</b> |          | <b>12.96</b> |          | <b>12.96</b> |          | <b>14.08</b> | <b>36.5%</b> | <b>54.75</b> |
|             | <b>CONVERGENCE WITH NREGA</b>                           |       | <b>2</b> | <b>0.855</b> | <b>2</b> | <b>0.855</b> | <b>2</b> | <b>0.855</b> | <b>2</b> | <b>0.855</b> | <b>8</b>     | <b>6.84</b>  |
|             | <b>IWMP</b>   |       | <b>2</b> | <b>0.57</b>  | <b>2</b> | <b>0.57</b>  | <b>2</b> | <b>0.57</b>  | <b>2</b> | <b>0.57</b>  | <b>8</b>     | <b>2.28</b>  |
|             |   |       |          |              |          |              |          |              |          |              |              |              |

**VILLAGE WISE ACTION PLAN OF WAH UMSAI WATERSHED UNDER IWMP – VI,  
TERRITORIAL DIVISION: SHILLONG.**

Name of District: East Khasi Hills  
Name of the C & RD Block: Shella Bholaganj

No. of villages – 4 nos.  
Project Area: 500 Ha

| Sl. No    | Activities  | Tyrna         |              | Mawshamok     |                | Nongthymmai   |               | Lumsophie     |               | Total         |              |
|-----------|---|---------------|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|--------------|
|           |   | Phy           | Fin          | Phy           | Fin            | Phy           | Fin           | Phy           | Fin           | Phy           | Fin          |
| 1         | 2   | 3             | 4            | 5             | 6              | 7             | 8             | 9             | 10            | 11            | 12           |
| <b>I</b>  | <b>WATERSHED WORKS PHASE :</b>                        |               |              |               |                |               |               |               |               | -             | -            |
| <b>A.</b> | <b>Arable Land Treatment:</b>                         | HA            |              | HA            |                | HA            |               | HA            |               | HA            | -            |
| i.        | Loose boulder Contour Bunds @ ` 7500/ ha for 33.60 ha | 8.282         | 0.621        | 8.282         | 0.621          | 8.282         | 0.62          | 8.747         | 0.66          | 33.6          | 2.52         |
| ii        | Agro-Horticulture Devt. ` 8600/ ha for 100 ha         | 25            | 2.150        | 25            | 2.150          | 25            | 2.15          | 25            | 2.15          | 100           | 8.600        |
| iii.      | Half Moon Terrace @ 7500 for 30 ha                    | 7.5           | 0.563        | 7.5           | 0.563          | 7.5           | 0.5625        | 7.5           | 0.5625        | 30            | 2.250        |
|           | <b>TOTAL (A)</b>                                      | <b>40.782</b> | <b>3.334</b> | <b>40.782</b> | <b>3.33365</b> | <b>40.782</b> | <b>3.3337</b> | <b>41.247</b> | <b>3.3685</b> | <b>163.59</b> | <b>13.37</b> |



|           |   |             |             |             |             |             |             |             |             |            |             |
|-----------|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|-------------|
| <b>B.</b> | <b>Non- Arable Land Treatment:</b>                              |             |             |             |             |             |             |             |             |            |             |
| i.        | Agro-Forestry Devt. works @ ` 10,100/ ha for 50 ha              | 12.5        | 1.215       | 12.5        | 1.215       | 12.5        | 1.215       | 12.5        | 1.215       | 50         | 4.850       |
| ii        | Improvement of existing Degraded Forest @ ` 3600/ ha for 110 ha | 25          | 0.775       | 25          | 0.775       | 25          | 0.775       | 25          | 0.775       | 100        | 3.100       |
|           | <b>TOTAL (B)</b>  | <b>37.5</b> | <b>1.99</b> | <b>37.5</b> | <b>1.99</b> | <b>37.5</b> | <b>1.99</b> | <b>37.5</b> | <b>1.99</b> | <b>150</b> | <b>7.95</b> |

|            |   |       |              |       |              |       |              |       |              |            |              |
|------------|---|-------|--------------|-------|--------------|-------|--------------|-------|--------------|------------|--------------|
| <b>C</b>   | <b>Drainage Line Treatment:</b>                           |       |              |       |              |       |              |       |              |            |              |
| i.         | Water Harvesting Structures-BA 70 Ha                      | 4 Nos | 1.676        | 3 Nos | 1.448        | 3 Nos | 1.448        | 3 Nos | 1.448        | 13 Nos.    | 6.02         |
| ii.        | Check dam – BA 40 ha (IWMP)                               | 3 nos | 0.96         | 2 nos | 0.64         | 2 nos | 0.64         | 3 nos | 0.96         | 10 Nos.    | 3.20         |
| iii.       | Protection Wall - BA 76 Ha                                | 8     | 1.826        | 7     | 1.598        | 7     | 1.5981       | 8     | 1.94         | 30         | 6.96         |
|            | <b>TOTAL ©</b>  |       | <b>4.462</b> |       | <b>3.686</b> |       | <b>3.686</b> |       | <b>4.344</b> |            | <b>16.18</b> |
|            | <b>Total of I:</b>  |       | <b>9.786</b> |       | <b>9.010</b> |       | <b>9.010</b> |       | <b>9.703</b> | <b>25%</b> | <b>37.5</b>  |
| <b>II.</b> | <b>Livelihood Activities for landless persons:(10%)</b>   | units |              | units |              | units |              | units |              | units      |              |
| i.         | Tailoring @ ` 8,000/-                                     | 5     | 0.4          | 5     | 0.4          | 5     | 0.40         | 5     | 0.4          | 20         | 1.600        |
| ii.        | Carpentry/ Agri- Implements/ Basket Making etc @ ` 5000/- | 2     | 0.1          | 2     | 0.1          | 1     | 0.05         | 2     | 0.1          | 7          | 0.350        |
| iii.       | Piggery/Poultry @ ` 8000/ unit                            | 15    | 1.2          | 15    | 1.2          | 15    | 1.20         | 15    | 1.2          | 60         | 4.800        |
| iv.        | Kitchen Gardening @ ` 2500/-                              | 7     | 0.175        | 4     | 0.1          | 4     | 0.10         | 7     | 0.175        | 22         | 0.550        |
| v          | Masonry / Hollow block making @ ` 5,000/                  | 2     | 0.1          |       |              | 1     | 0.05         | 1     | 0.05         | 4          | 0.200        |
|            | <b>Total of II.:</b>                                      |       | <b>1.98</b>  |       | <b>1.80</b>  |       | <b>1.80</b>  |       | <b>1.93</b>  |            | <b>7.50</b>  |

| <b>III.</b> | <b>Production System and Micro Enterprises (SHG's):</b> |       |          |              |          |              |          |              |          |              |              |              |
|-------------|---|-------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|--------------|--------------|
| i.          | Betel nut soaking Tank @ ` 50,000/-                     | 50000 | 2        | 1.00         | 2        | 1.00         | 2        | 1.00         | 2        | 1.00         | 8            | 4.000        |
| ii          | Pisciculture @ ` 30,000/                                | 30000 | 1        | 0.3          |          |              |          |              | 1        | 0.3          | 2            | 0.600        |
| iii.        | Piggery farming @ ` 30,000/                             | 30000 | 1        | 0.3          | 1        | 0.3          | 1        | 0.30         | 1        | 0.3          | 4            | 1.200        |
| iv.         | Poultry Farming @ ` 30,000/                             | 30000 | 2        | 0.6          | 1        | 0.3          | 1        | 0.30         | 1        | 0.3          | 5            | 1.500        |
| v           | Grocery shop @ ` 30,000/                                | 30000 | 1        | 0.3          | 1        | 0.3          | 1        | 0.30         | 1        | 0.3          | 4            | 1.200        |
| vi          | Canes & Handicrafts @ ` 25,000/ unit                    | 25000 | 2        | 0.5          | 1        | 0.25         | 1        | 0.25         | 1        | 0.25         | 5            | 1.250        |
|             | <b>Total of III:</b>                                    |       |          | <b>3.00</b>  |          | <b>2.15</b>  |          | <b>2.15</b>  |          | <b>2.45</b>  | <b>7%</b>    | <b>9.75</b>  |
|             | <b>Grand Total (I+II+III)</b>                           |       |          | <b>14.76</b> |          | <b>12.96</b> |          | <b>12.96</b> |          | <b>14.08</b> | <b>36.5%</b> | <b>54.75</b> |
|             | <b>CONVERGENCE WITH NREGA</b>                           |       | <b>2</b> | <b>0.855</b> | <b>2</b> | <b>0.855</b> | <b>2</b> | <b>0.855</b> | <b>2</b> | <b>0.855</b> | <b>8</b>     | <b>6.84</b>  |
|             | <b>IWMP</b>   |       | <b>2</b> | <b>0.57</b>  | <b>2</b> | <b>0.57</b>  | <b>2</b> | <b>0.57</b>  | <b>2</b> | <b>0.57</b>  | <b>8</b>     | <b>2.28</b>  |
|             |   |       |          |              |          |              |          |              |          |              |              |              |

**A TYPICAL FORMAT TO IDENTIFY WORKS/ACTIVITIES REQUIRED FOR INTEGRATED DEVELOPMENT OF THE OVER EXPLOITED BLOCKS AND COVERED UNDER MAHATMA GANDHI NREGA AND INTEGRATED WATERSHED MANAGEMENT PROGRAMME WITH THE SIZE OF AREA/WORK, ESTIMATED COST AND THE YEAR IN WHICH PROPOSED FOR EXECUTION.**

**NAME OF WATERSHED UPPER THARIA & WAH UMSAI IWMP 2010 – 2011 PROJECT – VI AREA OF WATERSHED 1464 HA  
**NAME OF VILLAGE: TYRNA,MAWSHAMOK,NONGTHYMMAL,LUMSOHPHIE, SUKTIA,MAWSIANGEL,NONGLA,TYRNGEI****

**NAME OF PANCHAYAT/BLOCK/DISTRICT SHELLA BHOLAGANJ C&RD BLOCK, EAST KHASI HILLS DISTRICT**


| Sl No | Work/Activity           | Kind of Area | Size of Area/Work | Estimated Cost (Lakh) | Programme Under which Proposed | Year in which Proposed |                               |             |             |             |
|-------|-------------------------|--------------|-------------------|-----------------------|--------------------------------|------------------------|-------------------------------|-------------|-------------|-------------|
|       |                         |              |                   |                       |                                | 2010 – 2011            | 2011 – 2012                   | 2012 – 2013 | 2013 – 2014 | 2014 – 2015 |
| 1     | 2                       | 3            | 4                 | 5                     | 6                              | 7                      | 8                             | 9           | 10          | 11          |
| (i)   | <u>Water Harvesting</u> |              |                   |                       |                                | -                      |                               |             |             |             |
|       | • Check Dam             |              |                   |                       |                                |                        |                               |             |             |             |
|       | • Suktia village        | Community    | -                 | 0.7125                | MGNREGA<br>IWMP                | -                      | <b>0.4275</b><br><b>0.285</b> |             |             |             |
|       | • Mawsiangei village    | Community    | -                 | 0.7125                | MGNREGA<br>IWMP                | -                      | <b>0.4275</b><br><b>0.285</b> |             |             |             |
|       | • Nongla village        | Community    | -                 | 0.7125                | MGNREGA<br>IWMP                | -                      | <b>0.4275</b><br><b>0.285</b> |             |             |             |
|       | • Tyrngei village       | Community    | -                 | 0.7125                | MGNREGA<br>IWMP                | -                      | <b>0.4275</b><br><b>0.285</b> |             |             |             |
|       | • Tyrna village         | Community    | -                 | 0.7125                | MGNREGA<br>IWMP                | -                      | <b>0.4275</b><br><b>0.285</b> |             |             |             |

|  |                          |           |   |        |                 |   |                               |  |  |  |
|--|--------------------------|-----------|---|--------|-----------------|---|-------------------------------|--|--|--|
|  | • Mawshamok village      | Community | - | 0.7125 | MGNREGA<br>IWMP | - | <b>0.4275</b><br><b>0.285</b> |  |  |  |
|  | • Nongthymmai<br>village | Community | - | 0.7125 | MGNREGA<br>IWMP | - | <b>0.4275</b><br><b>0.285</b> |  |  |  |
|  | • Lumsophie village      | Community | - | 0.7125 | MGNREGA<br>IWMP | - | <b>0.4275</b><br><b>0.285</b> |  |  |  |
|  | TOTAL                    |           |   | 5.70   | MGNREGA<br>IWMP | - | <b>3.42</b><br><b>2.28</b>    |  |  |  |

TO WHOM IT MAY CONCERN

This is to certify that a decision has been taken in principle to converge the IWMP projects proposed by the Divisional Officer, Soil & Water Conservation, Shillong (T) Division, Shillong with MGNREGS.



  
Deputy Commissioner  
&  
District Programme Co-Ordinator(MGNREGS)  
East Khasi Hills District  
Shillong

**Details of the types of areas covered under the IWMP Programme:**

| 1                | 2             | 3                 | 4                                  | 5                | 6                             |         | 7       | 8         | 9   | 10                   |                            |   |                           | 11                        |   |   |                 |             |
|------------------|---------------|-------------------|------------------------------------|------------------|-------------------------------|---------|---------|-----------|---|----------------------|----------------------------|---|---------------------------|---------------------------|---|---|-----------------|-------------|
|                  |               |                   |                                    |                  | Project duration (dd/mm/yyyy) |         |         |           |   | Area of the projects | Project cost (Rs. In lakh) | Names of Micro watersheds & Code nos. (as per DoLR's unique codification) | Area (ha) of the projects |                           | Area details (ha) (falling within the projects) |   |                 |             |
| S<br>L<br>N<br>o | Name of State | Name of Districts | Names of Projects                  | Year of sanction | From                          | To      |         |           |   |                      |                            |   | Cultivated rainfed area   | Cultivated irrigated area | Uncultivated wasteland                          |   | Pvt. Agri. Land | Forest land |
|                  |               |                   |                                    |                  |                               |         |         |           |   | a) Temporary fallow  | b) Permanent               |   |                           |                           |   |   |                 |             |
| 1                | Meghalaya     | East Khasi Hills  | Upper Tharia & Wah Umsai - IWMP VI | 2009-10          | 2009-10                       | 2013-14 | 1000 Ha | 150 Lakhs | Upper Tharia - 3C1C1ab<br>Wah Umsai - 3CB5b2m | 375 Ha               | Nil                        | 303   | 46                        | 375                       | 740   | - | -               | 1464 Ha     |

**Fund provision for the IWMP projects from all sources:**

| 1                | 2                          | 3             |             | 4  |                |                        |                        |           |                        |                       |                        |                      |                        | 5       |
|------------------|----------------------------|---------------|-------------|--|----------------|------------------------|------------------------|-----------|------------------------|-----------------------|------------------------|----------------------|------------------------|---------|
| District         | Name of Projects           | IWMP Fund     |             | Funds from other sources in addition to IWMP funds |                |                        |                        |           |                        |                       |                        |                      |                        | Total   |
|                  |                            |               |             | Convergence funds                                  |                | PPP                    |                        | Community |                        | Institutional finance |                        | Others (Pl. specify) |                        |         |
|                  |                            | Central Share | State Share | Name of Scheme                                     | Amount (Lakhs) | Name of private sector | Financial contribution | Name      | Financial contribution | Name                  | Financial contribution | Name                 | Financial contribution |         |
| East Khasi Hills | East Khasi Hills – IWMP VI | 135 lakhs     | 15 lakhs    | MNREGS   | 9.174          | Nil                    | Nil                    | Nil       | Nil                    | Nil                   | Nil                    | Nil                  | Nil                    | 159.174 |



**Details of Project Fund Accounts of Distt. Agency and Watershed Committees:**

| 1       | 2               | 3                 | 4                                  | 5   |  |  |   | 6   |   |  |  |   |
|---------|-----------------|-------------------|------------------------------------|---|--|--|---|---|---|--|--|---|
| Sl. No. | Names of States | Name of Districts | Names of Projects                  | Distt. Agency's Project Account details                           |  |  |   | Watershed Committee (WC) account details:     |   |  |  |   |
|         |                 |                   |                                    | Name of the Bank and Branch where project account has been opened | Account Number (to be obtained confidentially) | Account type (Saving / Current / Others) | Name & Designation of authorized persons who operate the account. | Name of Watershed Committee                   | Name of the Bank and Branch where project account has been opened | Account number (to be obtained confidentially)             | Account type (Saving / current others) | Name & Designation of authorized persons who operate the account. |
| 1       | Meghalaya       | East Khasi Hills  | Upper Tharia & Wah Umsai – IWMP VI | State Bank of India, Polo Branch                                  | 31641746710                                    | Saving                                   | Shri. A.S. Kharlukhi, DS&WCO                                      | Upper Tharia & Wah Umsai Watershed Committees | SBI,  | Upper Tharia - 00890110005255<br>Wah Umsai- 00890110005262 | Saving                                 | Chairman W.C, Secretary W.C, Project Leader / WDT                 |

**Details of Convergence of IWMP with other Schemes:**

|         | 1                | 2                          | 3  | 4  | 5   | 6  | 7   |
|---------|------------------|----------------------------|--|--|---|--|---|
| Sl. No. | District         | Names of projects          | Names of Departments with Schemes converging with IWMP | Fund made available to IWMP due to convergence (Rs. in lakh) | Name of activity/task/structure undertaken with converged funds               | Reference no. of activity/ task/ structure in DPR <sup>@</sup> | Level at which decision for convergence was taken <sup>\$</sup> |
|         |                  |                            |  |  | (a) Structures<br>(b) livelihoods<br>(c) Any other (pl. specify) <sup>#</sup> |  |   |
| 1       | East Khasi Hills | East Khasi Hills – IWMP VI | * Community Rural Development Department MNREGS        | 18.24  | Construction of Water Harvesting  | -  | Block Level & District Level                                    |

**CHAPTER VI**  
**CAPACITY BUILDING**

## CHAPTER VI CAPACITY BUILDING

Capacity Building is a process to systematically upgrade the skill of individuals or groups for achieving a specific target. Capacity building in the project has been planned for all the stake holders involved i.e. State Level, District Level, Project Level and Village Level. The relevant details pertaining to Capacity Building has been shown below.

**Table 6.1: List of approved Training Institutes for Capacity Building:**

| 1     | 2     | 3                              | 4   | 5   | 6                              | 7  | 8                     | 9              |                           |                               |                            |                         |  |
|-------|-------|--------------------------------|---|---|--------------------------------|--|-----------------------|----------------|---------------------------|-------------------------------|----------------------------|-------------------------|--|
| S. No | State | Name of the Training Institute | Full Address with contact no., website & e-mail | Name & Designation of the Head of Institute | Type of Institute <sup>#</sup> | Area(s) of specialization <sup>\$</sup>        | Accreditation details | Performance    |                           |                               |                            |                         |  |
|       |       |                                |   |   |                                |  |                       | Reference Year | No. of trainings assigned | No. of trainees to be trained | No. of trainings conducted | No. of trainees trained |  |
| 1     | State | SIRD                           | Nongsder  | Director                                    | State Govt.                    | Capacity Building                              | NA                    | -              |                           |                               |                            |                         |  |
| 2     |       | RRTC                           | Umran   | Director                                    | Don-Bosco                      | Agri-Horti, Animal Husbandry, Entrepreneurship | NA                    |                |                           |                               |                            |                         |  |
| 3     |       | ICAR                           | Umiam   | Director                                    | Central Govt.                  | Do   | NA                    |                |                           |                               |                            |                         |  |
| 4     |       | VTC                            | Kyrdem Kulai                                    | Director                                    | State Govt.                    | Animal Husbandry                               | NA                    |                |                           |                               |                            |                         |  |
| 5     |       | Fruit Garden                   | Shillong  | Director                                    | State Govt.                    | Agri-Horti, Fruit Processing                   | NA                    |                |                           |                               |                            |                         |  |

- From Column no. 2, total no. of States implementing the programme, from Column no. 3, no. of training institutes, from column No. 9, total no. of category-wise trainings and trainees may be given at the end of the table for the entire country
  - # Central govt. Dept./ State govt. Dept./ Autonomous Body/ Research Institutes/ Universities/ Others (pl. specify)
- \$ Capacity Building/ Agriculture/ Horticulture/ Animal Husbandry/ Pisciculture/ Remote Sensing/ Water conservation/ Ground water/ Forestry/ livelihoods/ entrepreneurship development/ others (pl. specify)
- @ The training institutes must fulfill the conditions mentioned in the operations guidelines.

- (i) Technical experts in fields required by IWMP
- (ii) Past experiences
- (iii) Annual Turnover
- (iv) Receives funds either from the Central or State Government
- (v) Publications
- (vi) Not blacklisted by any Govt. organizations
- (vii) Audited accounts
- (viii) Organizational structure

**Table 6.2: Capacity Building activities for the year 2010– 11 as on 31/03/2011 (dd/mm/yyyy)\***

| 1<br>Project Stakeholders | 2<br>Total no. of persons | 3<br>No. of persons trained so far | 4<br>No. of persons to be trained during current financial year | 5<br>No. of persons trained during current financial year | 6<br>Sources of funding for training |                            | 7<br>Funds utilized (Lakhs) |                            |
|---------------------------|---------------------------|------------------------------------|---|---|--------------------------------------|----------------------------|-----------------------------|----------------------------|
|                           |                           |                                    |   |   | a) DoLR                              | b) Any other (Pl. specify) | a) DoLR                     | b) Any other (Pl. specify) |
| SLNA                      |                           |                                    |   | -   | 1.50                                 | -                          | 1.50                        | -                          |
| DRDA/ZP cell              |                           |                                    |   | -   |                                      |                            |                             |                            |
| PIAs                      |                           |                                    | 25 Nos.   | -   |                                      |                            |                             |                            |
| WDTs                      |                           |                                    | 8 Nos.  | -   |                                      |                            |                             |                            |
| UGs                       |                           |                                    | 4Nos.   | -   |                                      |                            |                             |                            |
| SHGs                      |                           |                                    | 8 Nos.  | -   |                                      |                            |                             |                            |
| WCs                       |                           |                                    | 9 Nos.  | -   |                                      |                            |                             |                            |
| GPs                       |                           |                                    | 15 Nos.   | -   |                                      |                            |                             |                            |
| Community                 |                           |                                    | 497 Nos.  | -   |                                      |                            |                             |                            |
| Others<br>Pl. specify)    |                           |                                    |   |   |                                      |                            |                             |                            |

**Table 6.3: Information, Education & Communication (IEC) activities for the year 2010-11 as on 31/03/11 (dd/mm/yyyy)\***

|    | <b>1</b>          | <b>2</b>                | <b>3</b>                           | <b>4</b>                          | <b>5</b>   |
|----|-------------------|-------------------------|------------------------------------|-----------------------------------|--|
|    | <b>Activity</b>   | <b>Executing agency</b> | <b>Estimated expenditure (Rs.)</b> | <b>Expenditure incurred (Rs.)</b> | <b>Outcome (may quantity, wherever possible)</b> |
| 1. | Awareness         | S&WC (T) Division       | 0.50                               | 0.50                              |  |
| 2. | PRA Exercises     | S&WC (T) Division       |                                    |                                   |  |
| 3. | Exposure Visits   | S&WC (T) Division       | -                                  | -                                 |  |
| 4. | Capacity Building | S&WC (T) Division       | 1.00                               | 1.00                              |  |

**CHAPTER VII**  
**EXPECTED OUTCOME**

## CHAPTER VII EXPECTED OUTCOME

**Table 7.1 Employment related outcomes:**

| SI No | Name of Village | 1               |       |        |       |       |                      |       |        |       |       | 2                    |       |        |       |       |
|-------|-----------------|-----------------|-------|--------|-------|-------|----------------------|-------|--------|-------|-------|----------------------|-------|--------|-------|-------|
|       |                 | Wage employment |       |        |       |       |                      |       |        |       |       | Self employment      |       |        |       |       |
|       |                 | No. of mandays  |       |        |       |       | No. of beneficiaries |       |        |       |       | No. of beneficiaries |       |        |       |       |
|       |                 | SC              | ST    | Others | Women | Total | SC                   | ST    | Others | Women | Total | SC                   | ST    | Others | Women | Total |
| 1.    | Mawsiangei      |                 | 100 % | 5270   | 7920  | 13190 |                      | 100 % | 61     | 89    | 150   |                      | 100 % | 8      | 4     | 12    |
| 2.    | Suktia          |                 | 100 % | 2190   | 4780  | 6970  |                      | 100 % | 74     | 69    | 143   |                      | 100 % | 6      | 2     | 8     |
| 3.    | Nongla          |                 | 100 % | 1590   | 2380  | 3970  |                      | 100 % | 72     | 89    | 161   |                      | 100 % | 5      | 3     | 8     |
| 4.    | Tyrngei         |                 | 100 % | 1850   | 2780  | 4630  |                      | 100 % | 56     | 93    | 149   |                      | 100 % | 4      | 1     | 5     |
| 5.    | Tyrna           |                 | 100%  | 2510   | 3800  | 6310  |                      | 100 % | 39     | 72    | 111   |                      | 100 % | 5      | 2     | 7     |
| 6.    | Nongthymmai     |                 | 100%  | 2430   | 1620  | 4050  |                      | 100 % | 68     | 93    | 161   |                      | 100 % | 4      | -     | 4     |
| 7.    | Mawshamok       |                 | 100%  | 1265   | 1465  | 2730  |                      | 100 % | 6      | 9     | 15    |                      | 100 % | 15     | 9     | 24    |
| 8.    | Lumsophie       |                 | 100%  | 1980   | 3020  | 5000  |                      | 100 % | 27     | 53    | 80    |                      | 100 % |        |       | 68    |
|       |                 |                 |       |        |       |       |                      |       |        |       | 356   |                      |       |        |       |       |



**Table 7.2 Migration Details:**

| 1                      | 2                 | 3               | 4                        | 5                                 | 6                             | 7  | 8                           | 9   | 10  |                 |
|------------------------|-------------------|-----------------|--------------------------|-----------------------------------|-------------------------------|--|-----------------------------|---|---|-----------------|
| Names of the Districts | Names of Projects | Name of village | No. of persons migrating | No. of days per year of migration | Major reason(s) for migrating | Distance of destination of migration from the village (km) | Occupation during migration | Income from such occupation (Rs. in lakh) | For reduced migration identify major activities of IWMP responsible |                 |
|                        |                   |                 |                          |                                   |                               |  |                             |   | (a) Structures  | (b) Livelihoods |
|                        |                   |                 |                          | N                                 | I                             | L  |                             |   |   |                 |

\* From column no. 2, total number of States; from column no. 3, total no. of Districts; from column no. 4, total no. of projects; from column no. 5, total no. of villages; from column no. 6, total no. of persons migrating; from column no. 7, average no. of days for annual migration; from column no. 9, average distance of migration from the village and from column no. 11, average income from occupation during migration, for the entire country may be given at the end of the Table.

**Table 7.3 Economic benefits accrued to women:**

| 1          |                      | 2                         |                      | 3                          |  | 4                   |
|------------|----------------------|---------------------------|----------------------|----------------------------|--|---------------------|
| Wages      |                      | Training                  |                      | Livelihoods                |  | Total (Rs. in lakh) |
| Woman days | Amount (Rs. in lakh) | No. of women participants | Amount (Rs. in lakh) | No. of women beneficiaries | Value of assistance provided (Rs. in lakh) |                     |
| 27765      | 27.76                | 350                       | 0.60                 | 60 nos.                    | 6.0  | 6.60                |

\* from Column no. 2, total no. of States implementing the programme, from Column no. 3 to 6, category-wise totals, may be mentioned at the end of the table for the entire country.

**Table 7.4 Details of rights conferred in the CPRs of the project areas:**

| 1<br>Names of the Districts | 2<br>Names of the projects | 3<br>Names of the villages | 4<br>Particular of CPR | 5<br>Nature of right | 6<br>Period of right | 7<br>Beneficiary details (no. of families) |      |        |       | 8<br>User Charges (Rs.) |
|-----------------------------|----------------------------|----------------------------|------------------------|----------------------|----------------------|--|------|--------|-------|-------------------------|
|                             |                            |                            |                        |                      |                      | SC   | St   | Others | Total |                         |
| East Khasi Hills District   | EKH-IWMP-VI                | Mawsiangei                 | Community Forest       | Fw                   | 12 months            | -  | 361  | -      | 361   | Nil                     |
|                             |                            | Suktia                     | Community Forest       | Fw                   | 12 months            | -  | 338  | -      | 338   | Nil                     |
|                             |                            | Nongla                     | Community Forest       | Fw                   | 12 months            | -  | 234  | -      | 234   | Nil                     |
|                             |                            | Tyrngei                    | Community Forest       | Fw                   | 12 months            | -  | 139  | -      | 139   | Nil                     |
|                             |                            | Tyrna                      | Community Forest       | Fw                   | 12 months            | -  | 681  | -      | 681   | Nil                     |
|                             |                            | Mawshamok                  | Community Forest       | Fw                   | 12 months            | -  | 194  | -      | 194   | Nil                     |
|                             |                            | Nongthymmai                | Community Forest       | Fw                   | 12 months            | -  | 69   | -      | 69    | Nil                     |
| Lumsophie                   | Community Forest           | Fw                         | 12 months              | -                    | 102                  | -  | 102  | Nil    |       |                         |
| TOTAL                       |                            |                            |                        |                      |                      |  | 2118 |        | 2118  | -                       |

\* From column no. 2, no. of States; from column no. 3, no. of Districts; from column no. 4, no. of projects; from column no. 5, no. of villages; from column nos. 9 & 10, particular-wise totals for the entire country may be given at the end of the table.

@ In column no. 6, the categories given in table no. M(SP) 10, column 5 may be filled as required.

# In column no. 7, only the letter assigned to each type, as given below, needs to be typed.

- F for right to fishing [culture, harvest and sale]
- Fw for right to collect firewood for domestic purposes
- G for right to grazing for cattle and
- MFP for right to collect and sell minor forest produces
- P for right to passage across the CPR
- Rd for right to construct a road for access to individual property
- S/M for right to collect and sell sand and minerals
- T for right to collect timber for construction of house
- Wd for right to collect/ use water for drinking
- Wi for right to use water for irrigation
- O for any right other than indicated above (please specify)

**Table 7.5 Water related outcomes:**

**Table 7.5.1 Details of average ground water table depth in the project areas of the Country: State-wise \* (in metres)**

| 1                         | 2                 | 3                        | 4                 | 5                      | 6                  | 7                                   | 8       |
|---------------------------|-------------------|--------------------------|-------------------|------------------------|--------------------|-------------------------------------|---------|
| Names of Districts        | Names of Projects | Sources                  | Pre-Project level | Mid-term project level | Post-Project level | Increase/decrease (Col. 8 – Col. 6) | Remarks |
| East Khasi Hills District | EKH-IWMP VI       | Open wells               | -                 | -                      | -                  | -                                   | -       |
|                           |                   | Bore wells               | -                 | -                      | -                  | -                                   | -       |
|                           |                   | Others (specify) Springs |                   |                        |                    |                                     | -       |

\* From column no. 2, total number of States; from column no. 3, total no. of Districts; from column no. 4, total no. of projects, from column nos. 6 to 9, the average measurements, category-wise, for the entire country may be given at the end of the table. The data must be based on the average of the Ground Water Table collected by PIA with the help of concerned technical expert in the same sample of 10 % of selected wells and bore wells in the villages in the watershed project area during pre-project, mid-term and post-project periods.

**Table 7.5.2 Status of Drinking water:**

| 1                         | 2                   | 3  |              |                        | 4                         |              |                   | 5        |
|---------------------------|---------------------|--|--------------|------------------------|---------------------------|--------------|-------------------|----------|
| District                  | Name of the project | Availability of drinking water (no. of months in a year) |              |                        | Quality of drinking water |              |                   | Comments |
|                           |                     | Pre-project  | Post-project | Change in availability | Pre-project               | Post-project | Change in quality |          |
| East Khasi Hills District | EKH-IWMP VI         | Insufficient   | Sufficient   | 10 – 12 months         | Moderate                  | Improved     | Improved          | -        |
|                           |                     |  |              |                        |                           |              |                   |          |

\* From column no. 2, total number of States implementing the programme, from column no. 3, total no. of Districts; from column no. 4, category-wise no. of projects, from column no. 5, average no. of months may be given at the end of the table for the entire country.

**Table 7.5.3 Water Use efficiency:**

| 1                         | 2                   | 3                  | 4   |   |                        |       |
|---------------------------|---------------------|--------------------|---|---|------------------------|-------|
| District                  | Name of the project | Name of major crop | Water savings in cu.m.                    |   |                        | Total |
|                           |                     |                    | through water saving devices <sup>§</sup> | through water conserving agronomic practices <sup>#</sup> | Any other (pl specify) |       |
| East Khasi Hills District | EKH-IWMP VI         |                    |   |   | -                      | -     |

\* From column no. 2, total number of States implementing the programme, from column no. 3, total no. of Districts; from column no. 4, total no. of projects, from column no. 6, practice-wise totals may be mentioned at the end of the table for the entire country.

<sup>§</sup> Sprinkler, Drip, PVC pipe, etc.

**Table 7.6: Vegetation/ crop related outcomes:**

**Table 7.6.1 Details of Rabi crop area and yield in the project areas:**

| 1                         | 2           | 3            | 4           |      |                             |      |                        |      | 5         |      |                            |      |                        |      | 6            |      |                            |      |                        |      |
|---------------------------|-------------|--------------|-------------|------|-----------------------------|------|------------------------|------|-----------|------|----------------------------|------|------------------------|------|--------------|------|----------------------------|------|------------------------|------|
|                           |             |              | Pre-project |      |                             |      |                        |      | Mid-term  |      |                            |      |                        |      | Post-project |      |                            |      |                        |      |
|                           |             |              | Area (ha)   |      | Average Yield (Qtl) per ha. |      | Total Production (Qtl) |      | Area (ha) |      | Average Yield per ha (Qtl) |      | Total Production (Qtl) |      | Area (ha)    |      | Average Yield per ha (Qtl) |      | Total Production (Qtl) |      |
| Irri                      | Rf.         | Irri         | Rf.         | Irri | Rf.                         | Irri | Rf.                    | Irri | Rf.       | Irri | Rf.                        | Irri | Rf.                    | Irri | Rf.          | Irri | Rf.                        | Irri | Rf.                    |      |
| East Khasi Hills District | EKH-IWMP-VI | Yam          | -           | 50   | -                           | 15   | -                      | 750  |           | 50   |                            | 15   |                        | 750  |              | 50   |                            | 15   |                        | 750  |
|                           |             | Tapioca      | -           | 30   | -                           | 40   | -                      | 1200 |           | 30   |                            | 40   |                        | 1200 |              | 30   |                            | 40   |                        | 1200 |
|                           |             | Betel nut    | -           | 100  | -                           | 9    | -                      | 900  |           | 120  |                            | 9.2  |                        | 1104 |              | 200  |                            | 9.5  |                        | 1900 |
|                           |             | Betel leaf   | -           | 50   | -                           | 9    | -                      | 450  | 20        | 40   | 9.4                        | 9    | 188                    | 360  | 80           | 20   | 10                         | 9.5  | 800                    | 190  |
|                           |             | Black Pepper | -           | 40   | -                           | 6    | -                      | 240  | 20        | 20   | 6.4                        | 6.2  | 128                    | 124  | 60           | 40   | 6.7                        | 6.2  | 402                    | 248  |
|                           |             | Oranges      | -           | 40   | -                           | 40   | -                      | 160  |           | 50   |                            | 45   |                        | 2250 |              | 60   |                            | 50   |                        | 3000 |
|                           |             | Bay leaf     | -           | 100  | -                           | 20   |                        | 2000 |           | 110  |                            | 21   |                        | 2310 |              | 120  |                            | 25   |                        | 3000 |

\* From column no. 2, total number of States; from column no. 3, total no. of Districts; from column no. 4, total no. of projects, from column no. 5, total no. of crops; from column no. 6 to 8, the totals for the area, average yield per ha and total production, category-wise, for the entire country may be given at the end of the Table.

Irri. – Irrigated Rf – Rainfed

**Table 7.6.2 Details of Kharif crop area and yield in the project areas:**

| 1 | 2         | 3                         | 4           | 5            | 6           |     |                             |     |                        |     | 7         |     |                            |     |                        |     | 8            |     |                            |     |                        |     |
|---|-----------|---------------------------|-------------|--------------|-------------|-----|-----------------------------|-----|------------------------|-----|-----------|-----|----------------------------|-----|------------------------|-----|--------------|-----|----------------------------|-----|------------------------|-----|
|   |           |                           |             |              | Pre-project |     |                             |     |                        |     | Mid-term  |     |                            |     |                        |     | Post-project |     |                            |     |                        |     |
|   |           |                           |             |              | Area (ha)   |     | Average Yield (Qtl) per ha. |     | Total Production (Qtl) |     | Area (ha) |     | Average Yield per ha (Qtl) |     | Total Production (Qtl) |     | Area (ha)    |     | Average Yield per ha (Qtl) |     | Total Production (Qtl) |     |
|   |           |                           |             |              | Irri        | Rf. | Irri                        | Rf. | Irri                   | Rf. | Irri      | Rf. | Irri                       | Rf. | Irri                   | Rf. | Irri         | Rf. | Irri                       | Rf. | Irri                   | Rf. |
|   | Meghalaya | East Khasi Hills District | EKH-IWMP-VI | Betel leaf   | -           | -   | -                           | -   | -                      | -   | 20        | 40  | 9.50                       | 9   | 190                    | 260 | 80           | 20  | 9.5                        | 9.2 | 760                    | 184 |
|   |           |                           |             | Black Pepper | -           | -   | -                           | -   | -                      | -   | 20        | 20  | 6.4                        | 6.2 | 128                    | 124 | 60           | 40  | 6.7                        | 6.2 | 402                    | 248 |

\* From column no. 2, total number of States; from column no. 3, total no. of Districts; from column no. 4, total no. of projects, from column no. 5, total no. of crops; from column no. 6 to 8, the totals for the area, average yield per ha and total production, category-wise, for the entire country may be given at the end of the Table.

Irri. – Irrigated Rf – Rainfed

**Table 7.6.3 Details of Zaid crop area and yield in the project areas of the Country: State-wise:**

| 1<br>SI<br>No. | 2<br>Names of<br>States | 3<br>Names of<br>the<br>Districts  | 4<br>Name<br>of<br>Projects | 5<br>Name<br>of<br>crops | 6            |      |                                      |      |                                  |      | 7            |      |                                     |      |                                  |          | 8            |      |                                     |         |                              |     |
|----------------|-------------------------|------------------------------------|-----------------------------|--------------------------|--------------|------|--------------------------------------|------|----------------------------------|------|--------------|------|-------------------------------------|------|----------------------------------|----------|--------------|------|-------------------------------------|---------|------------------------------|-----|
|                |                         |                                    |                             |                          | Pre-project  |      |                                      |      |                                  |      | Mid-term     |      |                                     |      |                                  |          | Post-project |      |                                     |         |                              |     |
|                |                         |                                    |                             |                          | Area<br>(ha) |      | Average<br>Yield<br>(Qtl) per<br>ha. |      | Total<br>Producti<br>on<br>(Qtl) |      | Area<br>(ha) |      | Average<br>Yield<br>per ha<br>(Qtl) |      | Total<br>Productio<br>n<br>(Qtl) |          | Area<br>(ha) |      | Average<br>Yield<br>per ha<br>(Qtl) |         | Total<br>Production<br>(Qtl) |     |
| Irri           | Rf.                     | Irri                               | Rf.                         | Irri                     | Rf.          | Irri | Rf.                                  | Irri | Rf.                              | Irri | Rf.          | Irri | Rf.                                 | Irri | Rf.                              | Irri     | Rf.          | Irri | Rf.                                 |         |                              |     |
|                | Meghalaya               | East<br>Khasi<br>Hills<br>District | EKH-<br>IWMP<br>VI          | Betel<br>leaf            | -            | -    | -                                    | -    | -                                | -    | 20           | 40   | 9.5                                 | 9.2  | 368                              | 112<br>0 | 80           | 20   | 9.8                                 | 9.<br>5 | 784                          | 190 |
|                |                         |                                    |                             |                          |              |      |                                      |      |                                  |      |              |      |                                     |      |                                  |          |              |      |                                     |         |                              |     |
|                |                         |                                    |                             |                          |              |      |                                      |      |                                  |      |              |      |                                     |      |                                  |          |              |      |                                     |         |                              |     |

\* From column no. 2, total number of States; from column no. 3, total no. of Districts; from column no. 4, total no. of projects, from column no. 5, total no. of crops; from column no. 6 to 8, the totals for the area, average yield per ha and total production, category-wise, for the entire country may be given at the end of the Table.

Irri. – Irrigated Rf – Rainfed

**Table 7.6.4 Increase/ Decrease in area under fodder:**

| 1                         | 2               | 3                   | 4                               |                   |                           | 5   |   |                             |
|---------------------------|-----------------|---------------------|---------------------------------|-------------------|---------------------------|---|---|-----------------------------|
|                           |                 |                     | Existing area under fodder (ha) |                   |                           | Achievement (ha)                                      |   |                             |
| District                  | Name of project | Duration of Project | Source/Name of report           | Year of reference | Area already under fodder | Area under fodder proposed to be covered through IWMP | Area under fodder actually covered through IWMP | Change in area under fodder |
| East Khasi Hills District | EKH-IWMP VI     | 5 yrs               | NA                              | NA                | NA                        | nil   | nil   | nil                         |
|                           |                 |                     |                                 |                   |                           |   |   |                             |

\* From column no. 2, total number of States implementing the programme, from column no. 3, total no. of Districts; from column no. 4, total no. of projects, from column nos. 6 & 7, total area in ha may be given at the end of the table for the entire country.

**Table 7.6.5 Increase/ Decrease in Forest/vegetation cover:**

| 1                         | 2               | 3                   | 4                             |                   |  | 5  |  |  |
|---------------------------|-----------------|---------------------|-------------------------------|-------------------|--|--|--|--|
|                           |                 |                     | Existing area tree cover (ha) |                   |  | Achievement (ha)   |  |  |
| District                  | Name of project | Duration of Project | Source/Name of report         | Year of reference | Area already under forest/vegetative cover | Forest/vegetative cover area proposed to be covered under IWMP | Forest/vegetative cover area actually covered under IWMP | Change in forest/vegetative cover area |
| East Khasi Hills District | EKH-IWMP VI     | 5 yrs               | LULC Map                      | 2010 - 11         | 340 Ha                                     | 200 Ha   | 200 Ha   | 200 Ha                                 |
|                           |                 |                     |                               |                   |  |  |  |  |

\* From column no. 2, total number of States implementing the programme, from column no. 3, total no. of Districts; from column no. 4, total no. of projects, from column nos. 6 & 7, total area in ha may be given at the end of the table for the entire country.



**Table 7.6.6 Increase/ Decrease in area under horticulture:**

| 1                         | 2               | 3                   | 4                                     |                   |                                 | 5   |   |                                   |
|---------------------------|-----------------|---------------------|---------------------------------------|-------------------|---------------------------------|---|---|-----------------------------------|
| District                  | Name of project | Duration of Project | Existing area under horticulture (ha) |                   |                                 | Achievement (ha)  |   |                                   |
|                           |                 |                     | Source/Name of report                 | Year of reference | Area already under horticulture | Area under horticulture proposed to be covered through IWMP | Area under horticulture actually covered through IWMP | Change in area under horticulture |
| East Khasi Hills District | EKH-IWMP VI     | 5 yrs               |                                       |                   | 80 ha                           | 200 Ha  | 200 Ha  | 200 Ha                            |
|                           |                 |                     |                                       |                   |                                 |   |   |                                   |

\* From column no. 2, total number of States implementing the programme, from column no. 3, total no. of Districts; from column no. 4, total no. of projects, from column nos. 6 & 7, total area in ha may be given at the end of the table for the entire country.

**Table 7.6.7 Increase/ Decrease in area under fuel-wood:**

| 1                         | 2               | 3                   | 4                               |                   |                              | 5  |  |                                |
|---------------------------|-----------------|---------------------|---------------------------------|-------------------|------------------------------|--|--|--------------------------------|
| District                  | Name of project | Duration of Project | Existing area under fodder (ha) |                   |                              | Achievement (ha)                                       |  |                                |
|                           |                 |                     | Source/Name of report           | Year of reference | Area already under fuel-wood | Area under fuel-wood proposed to be covered under IWMP | Area under fuel-wood actually covered under IWMP | Change in area under fuel-wood |
| East Khasi Hills District | EKH-IWMP VI     |                     |                                 |                   | 340 Ha                       | 200 Ha   | 200 Ha   | 200 Ha                         |
|                           |                 |                     |                                 |                   |                              |  |  |                                |

\* From column no. 2, total number of States implementing the programme, from column no. 3, total no. of Districts; from column no. 4, total no. of projects, from column nos. 6 & 7, total area in ha may be given at the end of the table for the entire country.

**Table 7.7 Livelihood related outcomes:**

**Table 7.7.1 Details of livestock in the project areas** (for fluids please mention in litres, for solids please mention in kgs. and income in Rs.):

| 1                      | 2                      | 3              | 4           |         |        | 5        |       |        | 6            |       |        | 7       |
|------------------------|------------------------|----------------|-------------|---------|--------|----------|-------|--------|--------------|-------|--------|---------|
| Names of the Districts | Name of Projects       | Type of Animal | Pre-project |         |        | Mid-term |       |        | Post-project |       |        | Remarks |
|                        |                        |                | No.         | Yield   | Income | No.      | Yield | Income | No.          | Yield | Income |         |
|                        |                        |                |             | Piggery | 284    | -        | 1.40  | 340    | -            | 1.75  | 468    |         |
|                        |                        | Poultry        | 2317        | -       | 3.47   | 2896     | -     | 4.34   | 3476         | -     | 5.20   |         |
|                        |                        |                |             |         |        |          | -     |        |              |       |        |         |
|                        | Total for all projects |                | 2601        | -       | 4.87   | 3236     | -     | 6.09   | 3944         |       | 7.30   |         |
|                        |                        |                |             |         |        |          |       |        |              |       |        |         |

\* From column no. 2, total number of States; from column no. 3, total no. of Districts; from column no. 4, total no. of projects, from column nos. 5 to 8, the total nos. of animals and the average yield and incomes, category-wise, for the entire country may be given at the end of the Table.

**Table 7.7.2 Details of other livelihoods created for landless people:**

| 1                         | 2             | 3                       | 4                                    | 5                        |             |                      |       | 6   | 7                            |      |        |       |       | 8                                       |     |        |       |       |
|---------------------------|---------------|-------------------------|--------------------------------------|--------------------------|-------------|----------------------|-------|---|------------------------------|------|--------|-------|-------|---|-----|--------|-------|-------|
| District                  | Project       | Name of activity        | Fund required for the activity (Rs.) | Sources of funding (Rs.) |             |                      |       | Actual Expenditure incurred on activity (Rs.) | No. of beneficiaries trained |      |        |       |       | No. of beneficiaries taking up activity |     |        |       |       |
|                           |               |                         |                                      | Project Fund             | Beneficiary | Others (pl. specify) | Total |   | SC                           | ST   | Others | Women | Total | SC                                      | ST  | Others | Women | Total |
| East Khasi Hills District | EK H-IW MP VI | Tailoring               | 10000/                               | 8000                     | 2000        | -                    | 10000 | 10000   |                              | 120  | 80     | 40    | 120   |   | 40  | 20     | 20    | 40    |
|                           |               | Hollow block making     | 6000                                 | 5000                     | 1000        |                      | 6000  | 6000  |                              | 15   | 15     | -     | 15    |   | 8   | 8      |       | 8     |
|                           |               | Kitchen - gardening     | 3000                                 | 2500                     | 500         |                      | 3000  | 3000  |                              | 85   | -      | 85    | 85    |   | 44  |        | 44    | 44    |
|                           |               | Carpentry               | 6000                                 | 5000                     | 1000        |                      | 6000  | 6000  |                              | 25   | 25     | -     | 25    |   | 14  | 14     |       | 14    |
|                           |               | Poultry/piggery         | 10000                                | 8000                     | 2000        |                      | 10000 | 10000   |                              | 180  | 100    | 80    | 180   |   | 120 | 80     | 40    | 120   |
|                           |               | Piggery/poultry farming | 35000                                | 30000                    | 5000        |                      | 35000 | 35000   |                              | -do- | do     | do    | do    |   | 18  | -      | -     | 18    |
|                           |               | Canes and handicrafts   | 30000                                | 25000                    | 5000        |                      | 30000 | 30000   |                              | 12   | 7      | 5     | 12    |   | 5   | -      | -     | 5     |
|                           |               | Grocery shop            | 35000                                | 30000                    | 5000        |                      | 35000 | 35000   |                              | 10   | 6      | 4     | 10    |   | 8   | -      | -     | 8     |

(Contd.)

\* From column no. 2, total number of States; from column no. 3, total no. of Districts; from column no. 4, total no. of projects, from column no. 5, total no. of activities; from column no. 6, total funds required for the activity, from column no. 7 to 12, category-wise totals, from column no. 13, category-wise totals, for the entire country may be given at the end of the Table.

**Table 7.7.3 Details of other livelihoods created for landless people:**

| 9  |                   | 10  | 11                               |              |  |              | 12                                  |
|--|-------------------|---|----------------------------------|--------------|--|--------------|-------------------------------------|
| No. of persons employed indirectly in the activity |                   | Annual increase in income due to activity (Rs.) | Impact of livelihoods programme  |              |  |              | Any other information (pl. Specify) |
|  |                   |   | Migration (No. of beneficiaries) |              | Development of backward-forward linkages |              |                                     |
| Total  | Grand Total (8+9) |   | Pre-project                      | Post-project | Pre-project                              | Post-project |                                     |
|  |                   |   |                                  |              |  |              | -                                   |
|  |                   |   |                                  |              |  |              | -                                   |

**Table 7.7.4 Details of other livelihoods created for farmers:**

| 1                         | 2           | 3                   | 4   | 5                                 |              |                      |       | 6   | 7                      |    |    |       | 8                                 |    |    |       |
|---------------------------|-------------|---------------------|---|-----------------------------------|--------------|----------------------|-------|---|------------------------|----|----|-------|-----------------------------------|----|----|-------|
| District                  | Project     | Name of activity    | Fund required for the activity (Rs.) in lakhs | Sources of funding (Rs.) in Lakhs |              |                      |       | Actual Expenditure incurred on activity (Rs.) | No. of farmers trained |    |    |       | No. of farmers taking up activity |    |    |       |
|                           |             |                     |   | Project Fund                      | Benefi-ciary | Others (pl. specify) | Total |   | SF                     | MF | LF | Total | SF                                | MF | LF | Total |
| East Khasi Hills District | EKH-IWMP VI | i) Betelnut soaking | 10.00   | 8.00                              | 2.00         | -                    | 10.00 | 10.00   | 80                     | -  | -  | 80    | 80                                | -  | -  | 80    |
|                           |             | ii) Piggery         | 9.00  | 7.50                              | 1.50         | -                    | 9.00  | 9.00  |                        | 68 |    | 68    |                                   | 68 |    | 68    |
|                           |             | iii) Poultry        | 9.00  | 7.50                              | 1.50         | -                    | 9.00  | 9.00  |                        | 70 |    | 70    |                                   | 70 |    | 70    |
|                           |             | iii) Pisciculture   | 1.50  | 1.20                              | 0.30         | -                    | 1.50  | 1.50  | 4                      |    |    | 4     |                                   | 4  |    | 4     |

\* From column no. 2, total number of States; from column no. 3, total no. of Districts; from column no. 4, total no. of projects, from column no. 5, total no. of activities; from column no. 6, total funds required for the activity, from column no. 7 to 12, category-wise totals, from column no. 13, category-wise totals, for the entire country may be given at the end of the Table.

**Table 7.7.5 Details of other livelihoods created for farmers \* (contd.)**

| 9  |                   | 10  | 11                               |              |  |              | 12                                  |
|--|-------------------|---|----------------------------------|--------------|--|--------------|-------------------------------------|
| No. of persons employed indirectly in the activity |                   | Annual increase in income due to activity (Rs.) | Impact of livelihoods programme  |              |  |              | Any other information (pl. Specify) |
|  |                   |   | Migration (No. of beneficiaries) |              | Development of backward-forward linkages |              |                                     |
| Total  | Grand Total (8+9) |   | Pre-project                      | Post-project | Pre-project                              | Post-project |                                     |
|  |                   |   |                                  |              |  |              |                                     |
|  |                   |   |                                  |              |  |              |                                     |
|  |                   |   |                                  |              |  |              |                                     |
|  |                   |   |                                  |              |  |              |                                     |

**Table 7.8 Marketing related outcomes:**

**Backward-Forward linkages \***

| 1                         | 2           | 3                                       | 4                 | 5                        | 6                  |
|---------------------------|-------------|---|-------------------|--------------------------|--------------------|
| District                  | Project     | Type of Marketing Facility              | Pre-project (no.) | During the project (no.) | Post-project (no.) |
| East Khasi Hills District | EKH-IWMP VI | <b>(A) Backward linkages</b>            |                   |                          |                    |
|                           |             | (i) Seed certification                  | -                 | -                        | -                  |
|                           |             | (ii) Seed supply system                 | -                 | -                        | -                  |
|                           |             | (iii) Fertilizer supply system          | -                 | -                        | -                  |
|                           |             | (iv) Pesticide supply system            | -                 | -                        | -                  |
|                           |             | (v) Credit institutions                 | -                 | 4                        | 4                  |
|                           |             | (vi) Water supply                       | 4                 | 8                        | 12                 |
|                           |             | (vii) Extension services                | -                 | 2                        | 2                  |
|                           |             | (viii) Nurseries                        | -                 | -                        | -                  |
|                           |             | (ix) Tools/machinery suppliers          | -                 | -                        | -                  |
|                           |             | (x) Price Support system                | -                 | -                        | -                  |
|                           |             | (xi) Labour                             | -                 | -                        | -                  |
|                           |             | (xii) Any other (please specify)        | -                 | -                        | -                  |
|                           |             | <b>(A) Forward linkages</b>             |                   |                          |                    |
|                           |             | (i) Harvesting/threshing machinery      | -                 | -                        | -                  |
|                           |             | (ii) Storage (including cold storage)   | -                 | -                        | -                  |
|                           |             | (iii) Road network                      | -                 | -                        | -                  |
|                           |             | (iv) Transport facilities               | 4                 | 2                        | 6                  |
|                           |             | (v) Markets / Mandis                    | -                 | 1 no.                    | 1 no.              |
|                           |             | (vi) Agro and other Industries          | -                 | -                        | -                  |
|                           |             | (vii) Milk and other collection centres | -                 | -                        | -                  |
|                           |             | (viii) Labour                           | -                 | -                        | -                  |
|                           |             | (ix) Any other (please specify)         | -                 | -                        | -                  |

\* from column no. 2, total no. of States implementing the programme, from column no. 3, total no. of Districts; from column no. 4, total no. of projects; from column no. 6, 7 & 8, category-wise totals may be given at the end of the table for the entire country.

**Table 7.9 Abstract of outcomes:**

| 1       | 2     | 3   | 4    | 5                                  | 6                   | 7       |
|---------|-------|---|------|------------------------------------|---------------------|---------|
| Sl. No. | State | Item  | Unit | Pre-project Status                 | Post-project Status | Remarks |
|         |       | Status of water table                         |      | Very poor - poor                   | Good                |         |
|         |       | Ground water structures repaired/ rejuvenated |      | -                                  | 6 nos.              |         |
|         |       | Quality of drinking water                     |      | Moderate potable                   | Improved            |         |
|         |       | Availability of drinking water                |      | Insufficient                       | Sufficient          |         |
|         |       | Increase in irrigation potential              |      | -                                  | 18 nos.             |         |
|         |       | Change in cropping/ land use pattern          |      | -                                  | -                   |         |
|         |       | Area under agricultural crop                  |      |                                    |                     |         |
|         |       | i Area under single crop                      |      | 40                                 | 100 ha              |         |
|         |       | ii Area under double crop                     |      | 90 ha                              | 200 ha              |         |
|         |       | iii Area under multiple crop                  |      | -                                  | -                   |         |
|         |       | Net increase in crop production area          |      |                                    |                     |         |
|         |       | Increase in area under vegetation             |      | -                                  | 200 ha              |         |
|         |       | Increase in area under horticulture           |      | -                                  | 200 ha              |         |
|         |       | Increase in area under fuel & fodder          |      | -                                  |                     |         |
|         |       | Increase in milk production                   |      | -                                  | -                   |         |
|         |       | No. of SHGs                                   |      | 2 nos.                             | 10 nos.             |         |
|         |       | Increase in no. of livelihoods                |      | -                                  | 12 nos.             |         |
|         |       | Increase in income                            |      | -                                  | 45,000              |         |
|         |       | Migration                                     |      | -                                  | -                   |         |
|         |       | No. of school going children                  |      | 120 nos.                           | 350 nos.            |         |
|         |       | SHG Federations formed                        |      | -                                  | -                   |         |
|         |       | Credit linkage with banks                     |      | -                                  | 4 nos.              |         |
|         |       | Resource use agreements                       |      | -                                  | -                   |         |
|         |       | WDF collection & management                   |      | -                                  | 2 nos               |         |
|         |       | Summary of lessons learnt                     |      | May be attached as a separate file |                     |         |

**Table 7.10 Cost effectiveness of structures/ activities\***

| 1                         | 2               | 3                        | 4                           | 5                    | 6                                    | 7                          | 8                                 | 9                                | 10  |
|---------------------------|-----------------|--------------------------|-----------------------------|----------------------|--------------------------------------|----------------------------|-----------------------------------|----------------------------------|-----|
| District                  | Name of project | Name of WC               | Name of structure/ activity | Estimated cost (Rs.) | Expected quantifiable benefits (Rs.) | Expenditure incurred (Rs.) | Actual quantifiable benefit (Rs.) | Benefit: Cost ratio <sup>#</sup> | IRR |
| East Khasi Hills District | EKH-IWMP VI     | Upper Tharia & Wah Umsai | As per Treatment Plan       | 117.0 lakhs          | 161.34                               | 117.0                      | -                                 | 1.379                            | -   |

\* from column no. 2, total no. of States implementing the programme, from column no. 3, total no. of Districts; from Column no. 4, no. of projects, from column no. 5, no. of WCs, from column no. 6, no. of structures/ activities, from column no. 7 to 10, category-wise# totals, may be mentioned at the end of the table for the entire country.

<sup>#</sup> B:C ratio more than 1 – cost effective  
less than 1 – Not cost effective



### BENEFIT COST RATIO

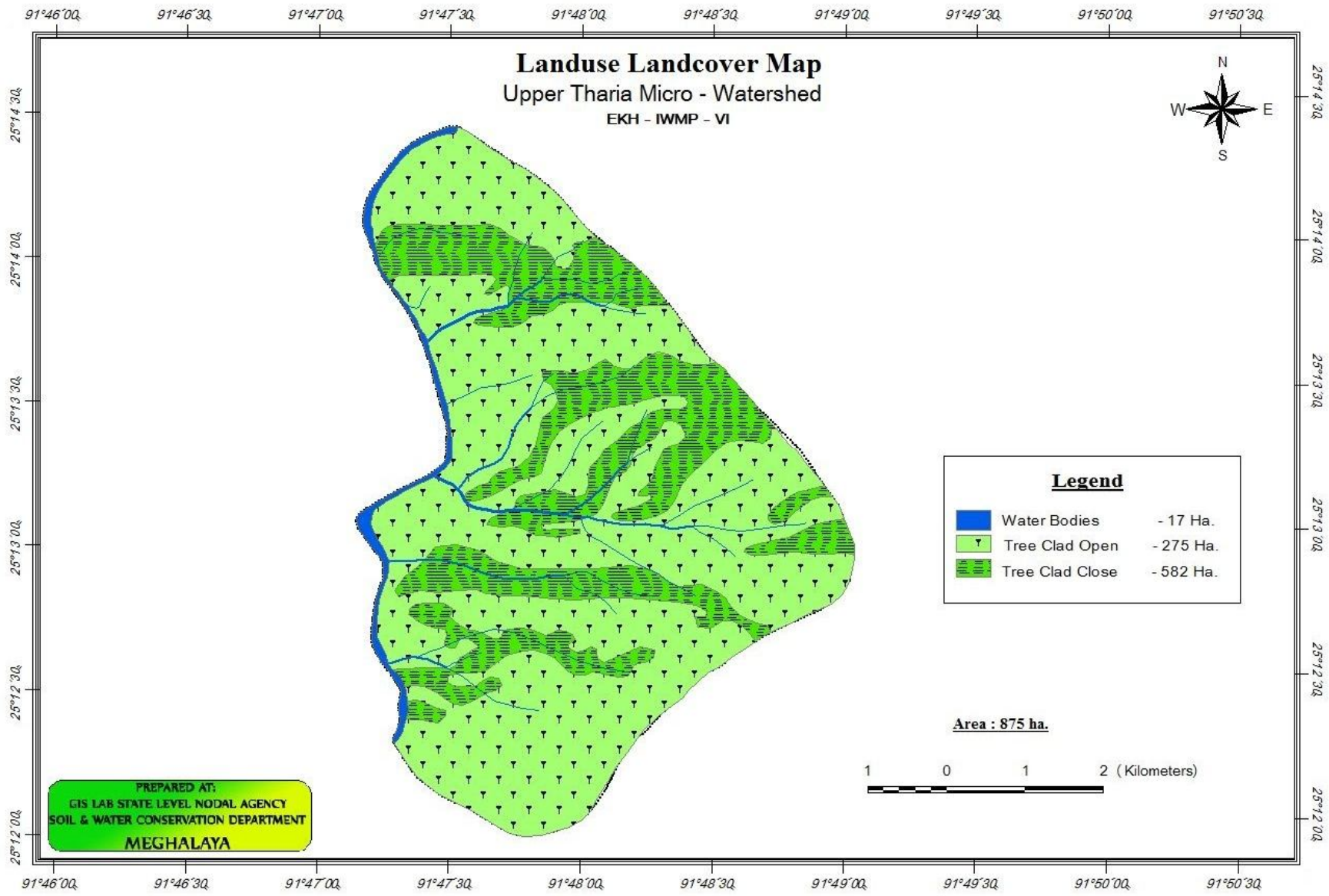
| YEAR | TOTAL PROJECT COST | COST TO BE BORNE BY FARMERS | TOTAL COSTS      | TOTAL BENEFITS  | DISCOUNT FACTOR | DISCOUNTED COSTS | DISCOUNTED BENEFITS | REMARKS |
|------|--------------------|-----------------------------|------------------|-----------------|-----------------|------------------|---------------------|---------|
| 1    | 9                  |                             | 9                |                 | 0.870           | 7.830            | 0.000               |         |
| 2    | 21                 | 363.896                     | 384.896          | 506.238         | 0.756           | 290.981          | 382.716             |         |
| 3    | 75                 | 414.045                     | 489.045          | 562.416         | 0.658           | 321.792          | 370.070             |         |
| 4    | 37.5               | 467.49                      | 504.9855         | 629.91          | 0.572           | 288.852          | 360.310             |         |
| 5    | 7.5                | 525.116                     | 532.616          | 748.448         | 0.497           | 264.710          | 371.979             |         |
| 6    |                    | 591.58                      | 591.578          | 853.02          | 0.432           | 255.562          | 368.506             |         |
| 7    |                    | 591.58                      | 591.578          | 860.22          | 0.376           | 222.433          | 323.444             |         |
| 8    |                    | 591.578                     | 591.578          | 872.224         | 0.327           | 193.446          | 285.217             |         |
| 9    |                    | 591.578                     | 591.578          | 896.224         | 0.284           | 168.008          | 254.528             |         |
| 10   |                    | 591.578                     | 591.578          | 908.224         | 0.247           | 146.120          | 224.331             |         |
| 11   |                    | 591.578                     | 591.578          | 908.224         | 0.215           | 127.189          | 195.268             |         |
| 12   |                    | 591.578                     | 591.578          | 908.224         | 0.187           | 110.625          | 169.838             |         |
|      | 150                |                             | <b>6061.5885</b> | <b>8653.382</b> |                 | <b>2397.548</b>  | <b>3306.207</b>     |         |

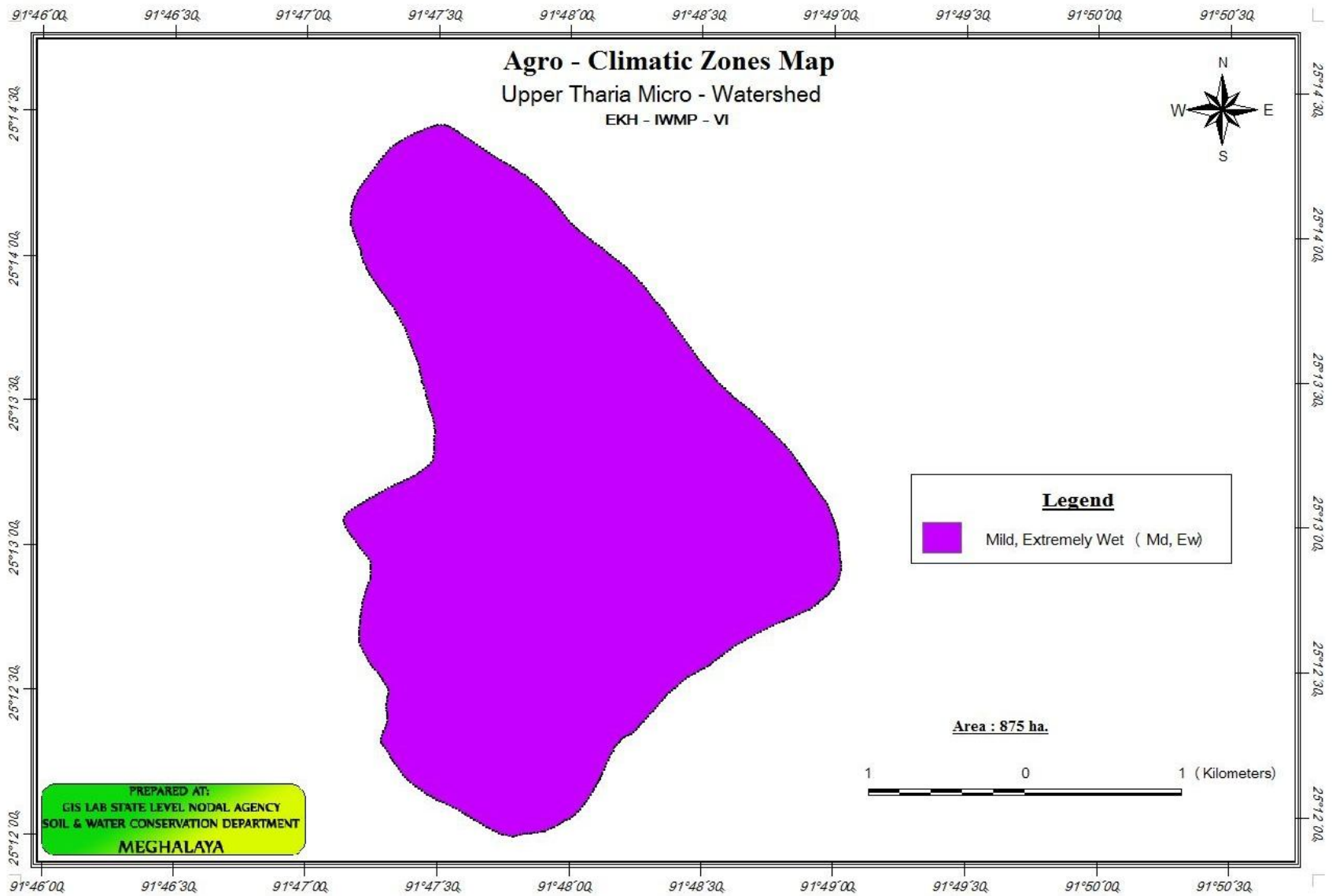
$$\text{Benefit Cost Ratio} = \frac{\text{Discounted Benefits}}{\text{Discounted Costs}}$$

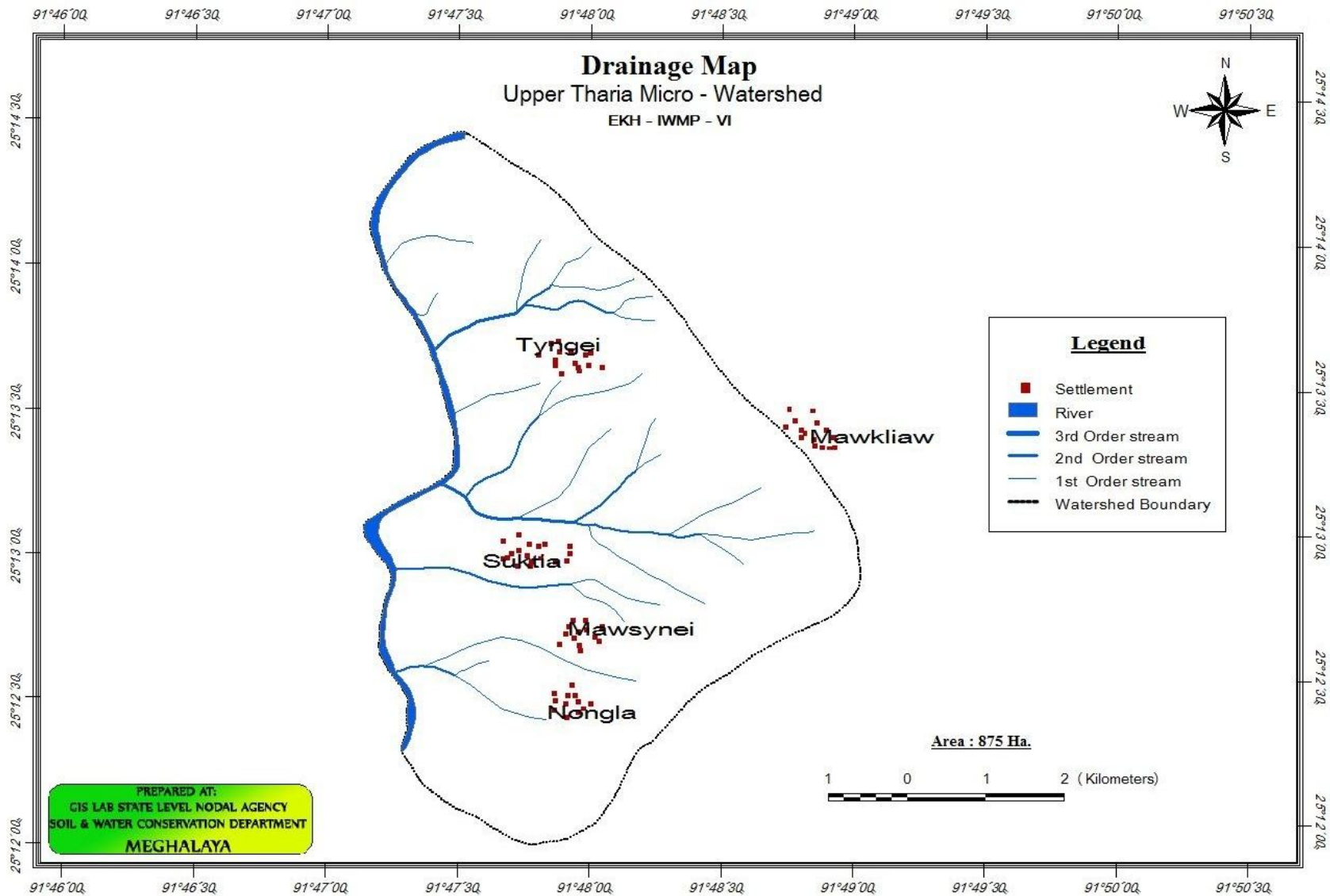
$$= \frac{1.379}{1}$$

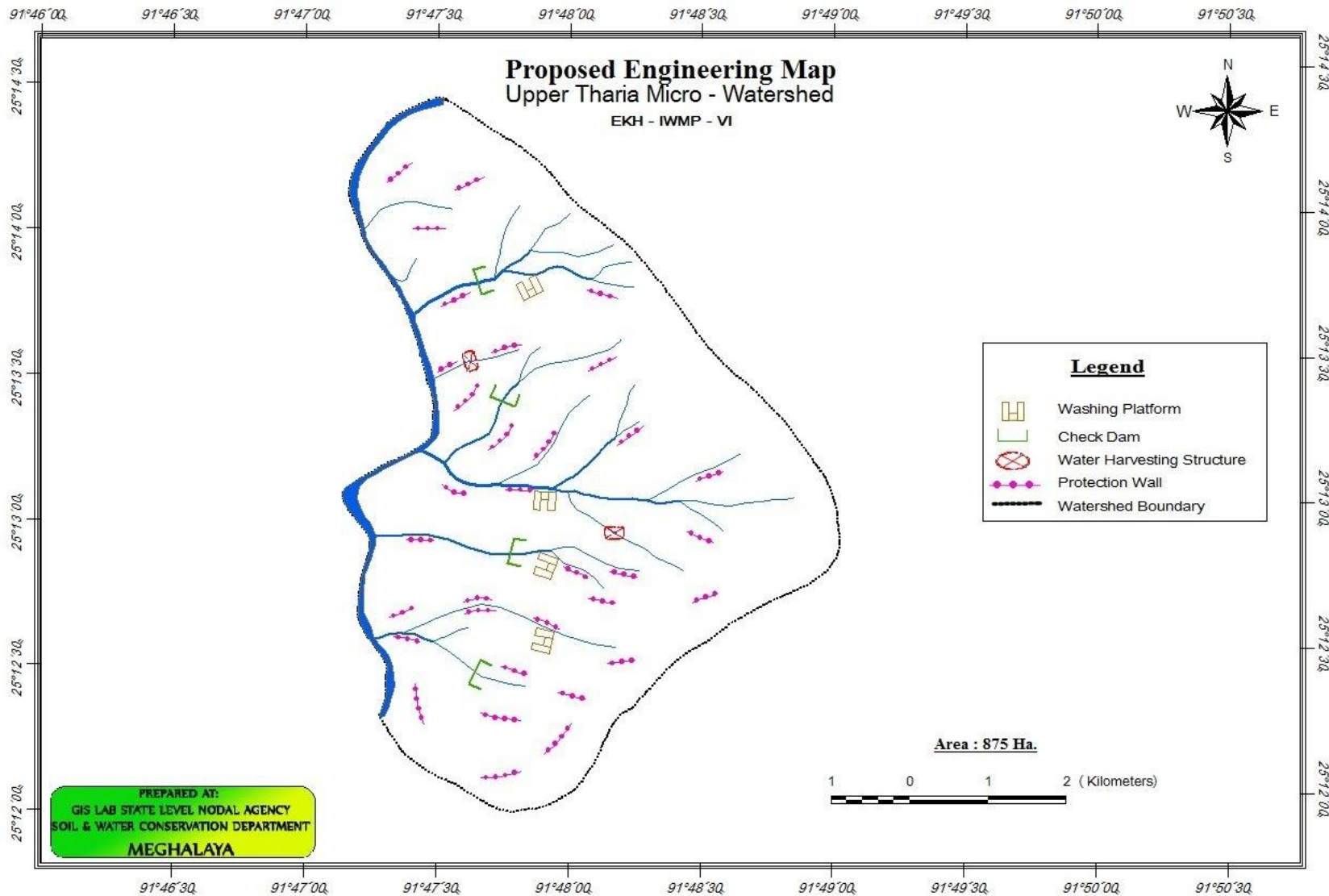
**B.C. Ratio = 1:1.379**

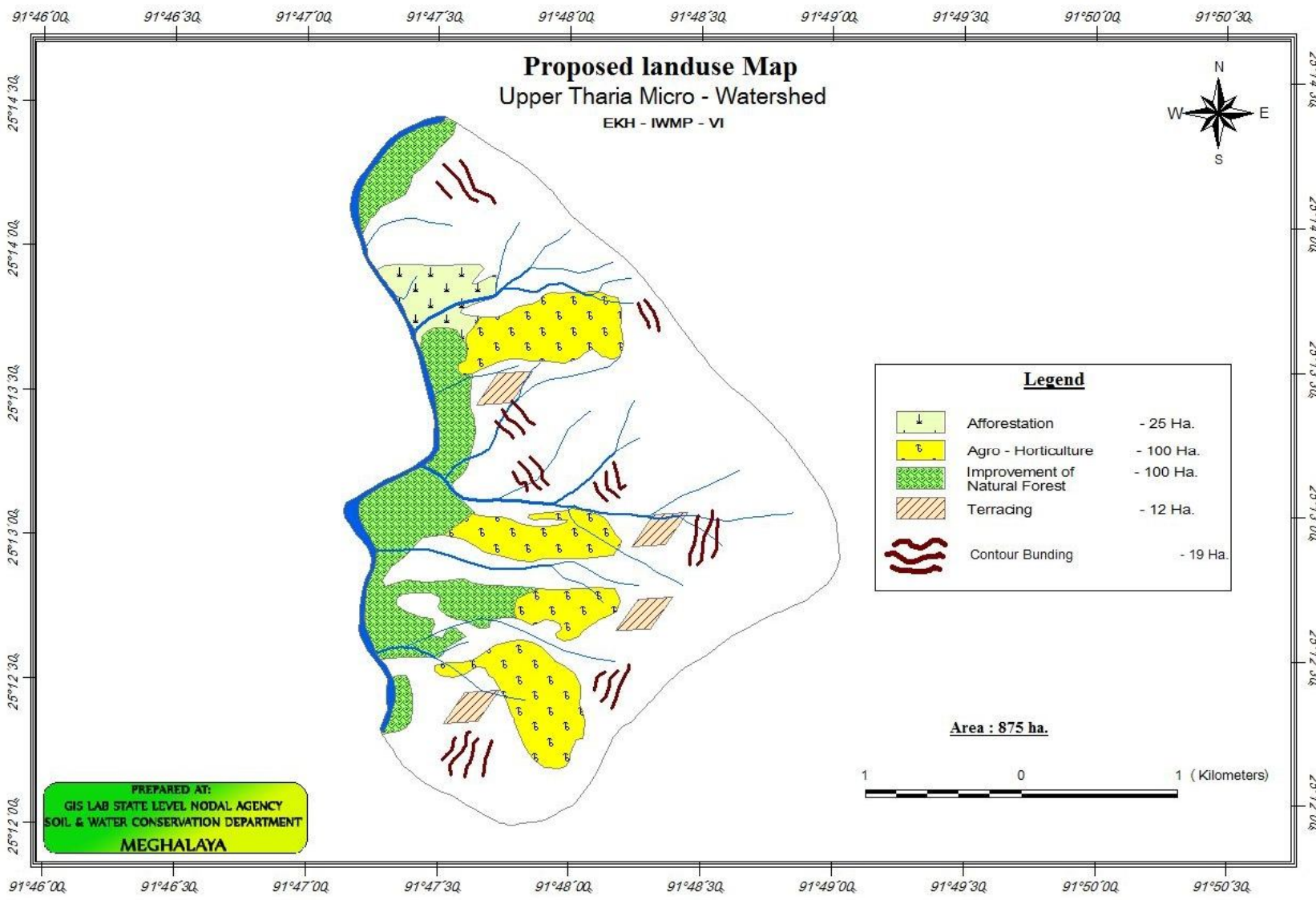
**ANNEXURE I**  
**MAPS**

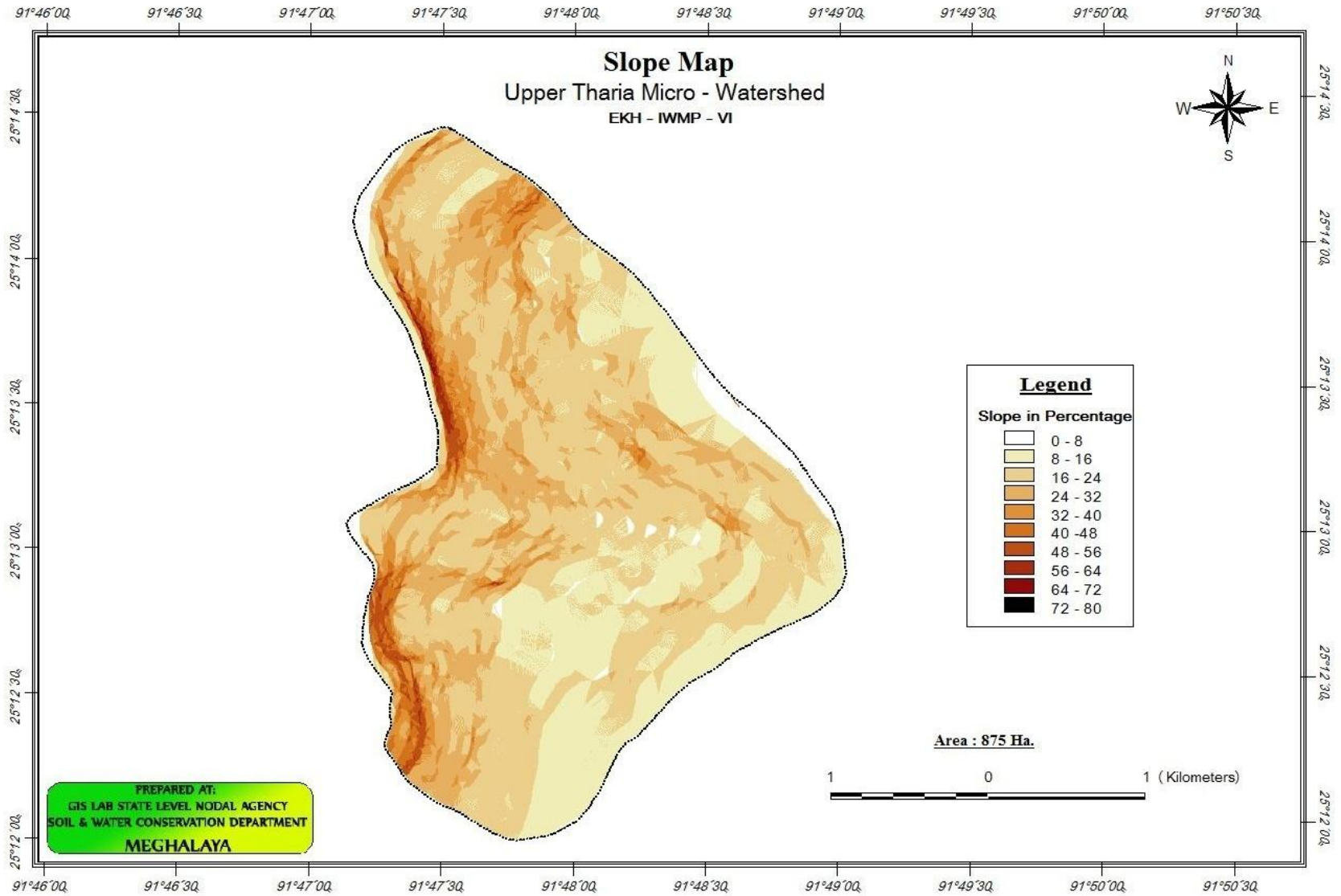




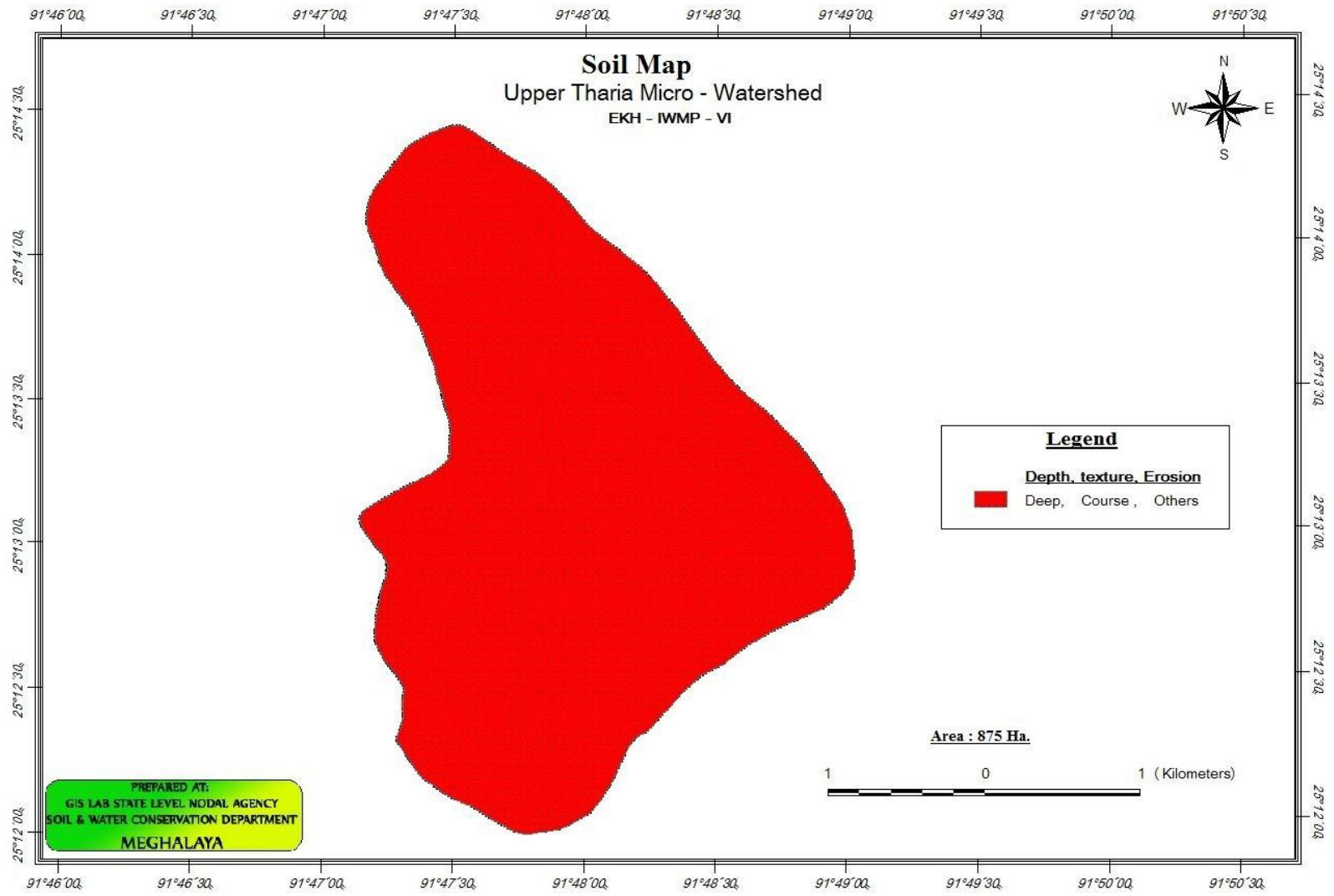


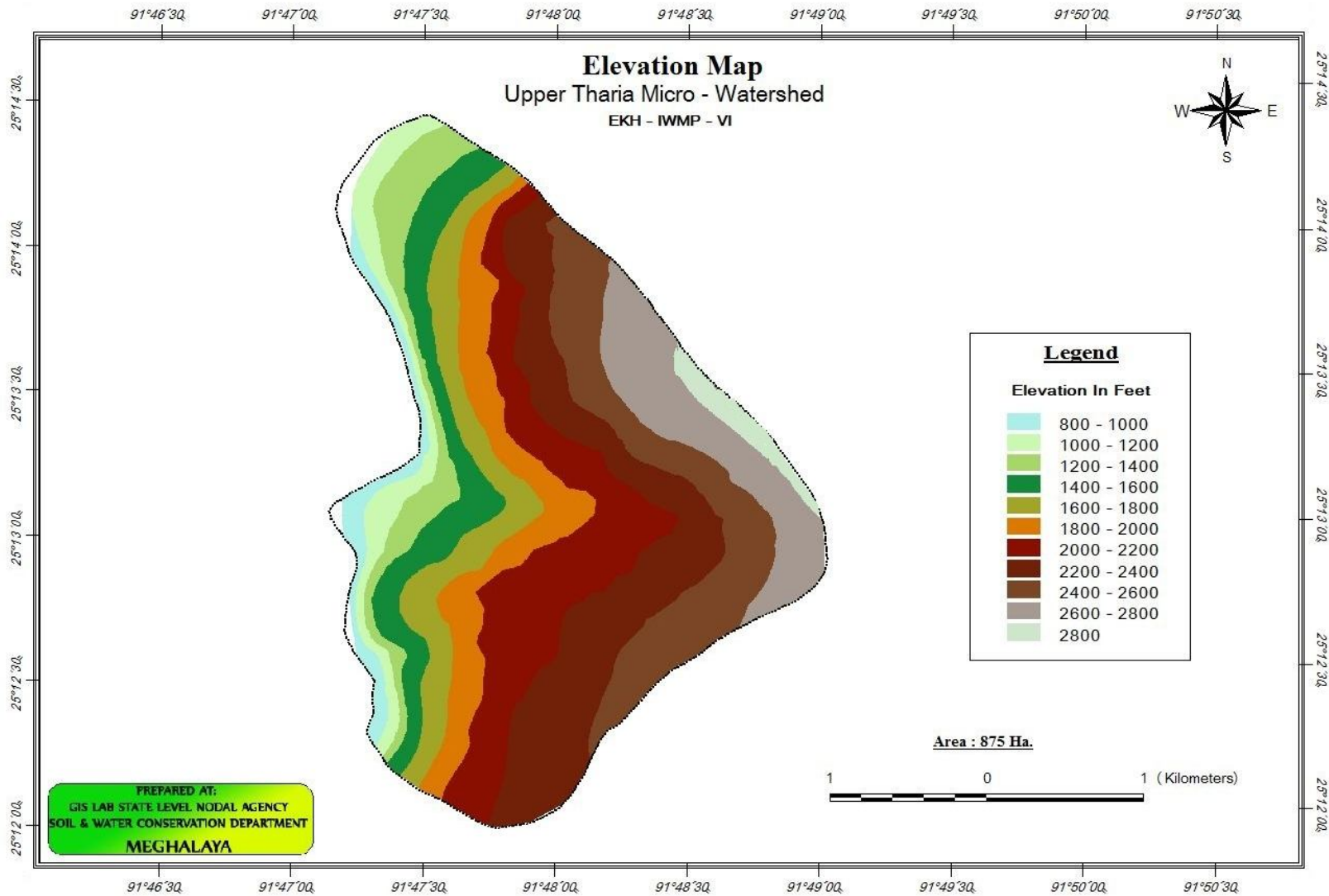


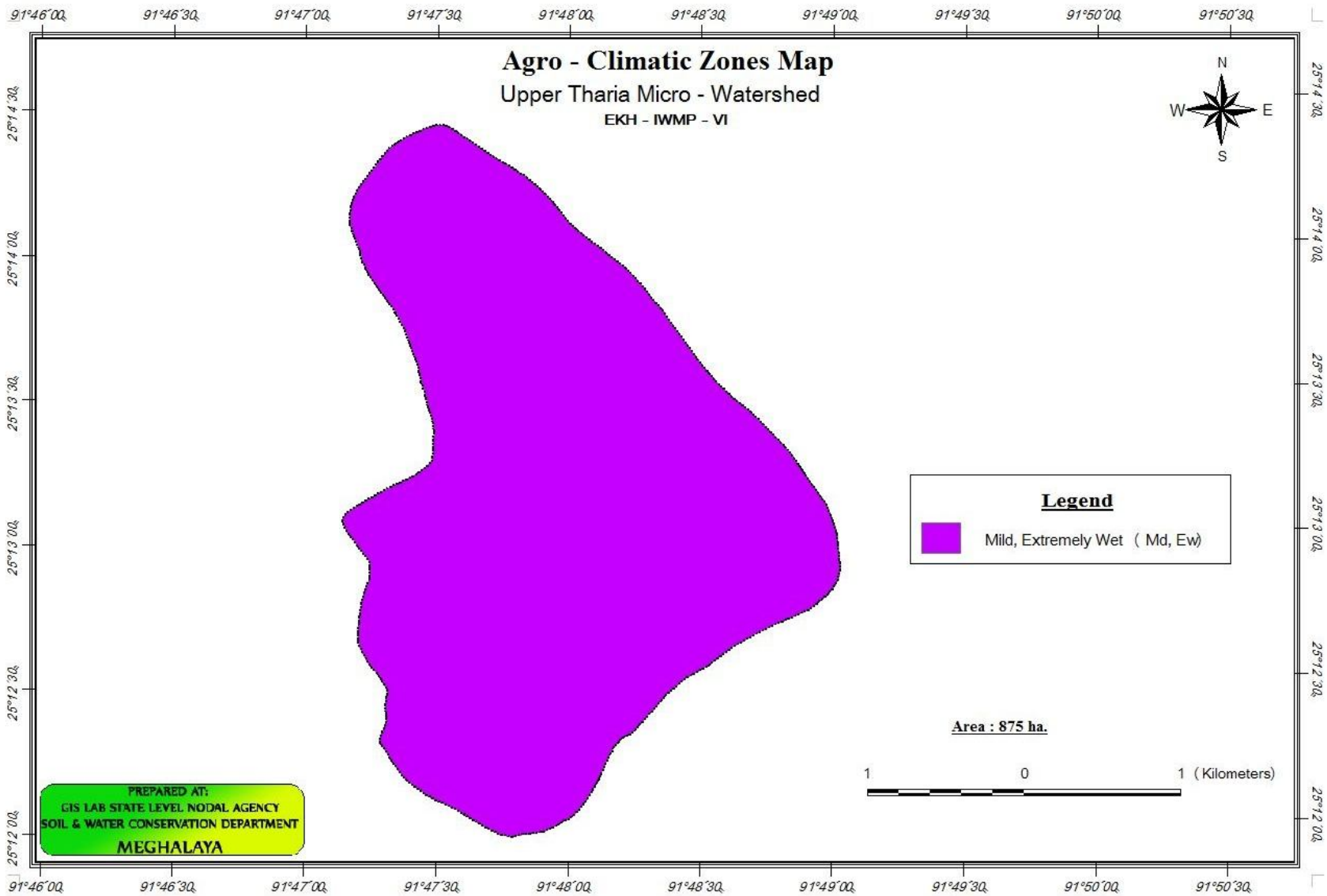


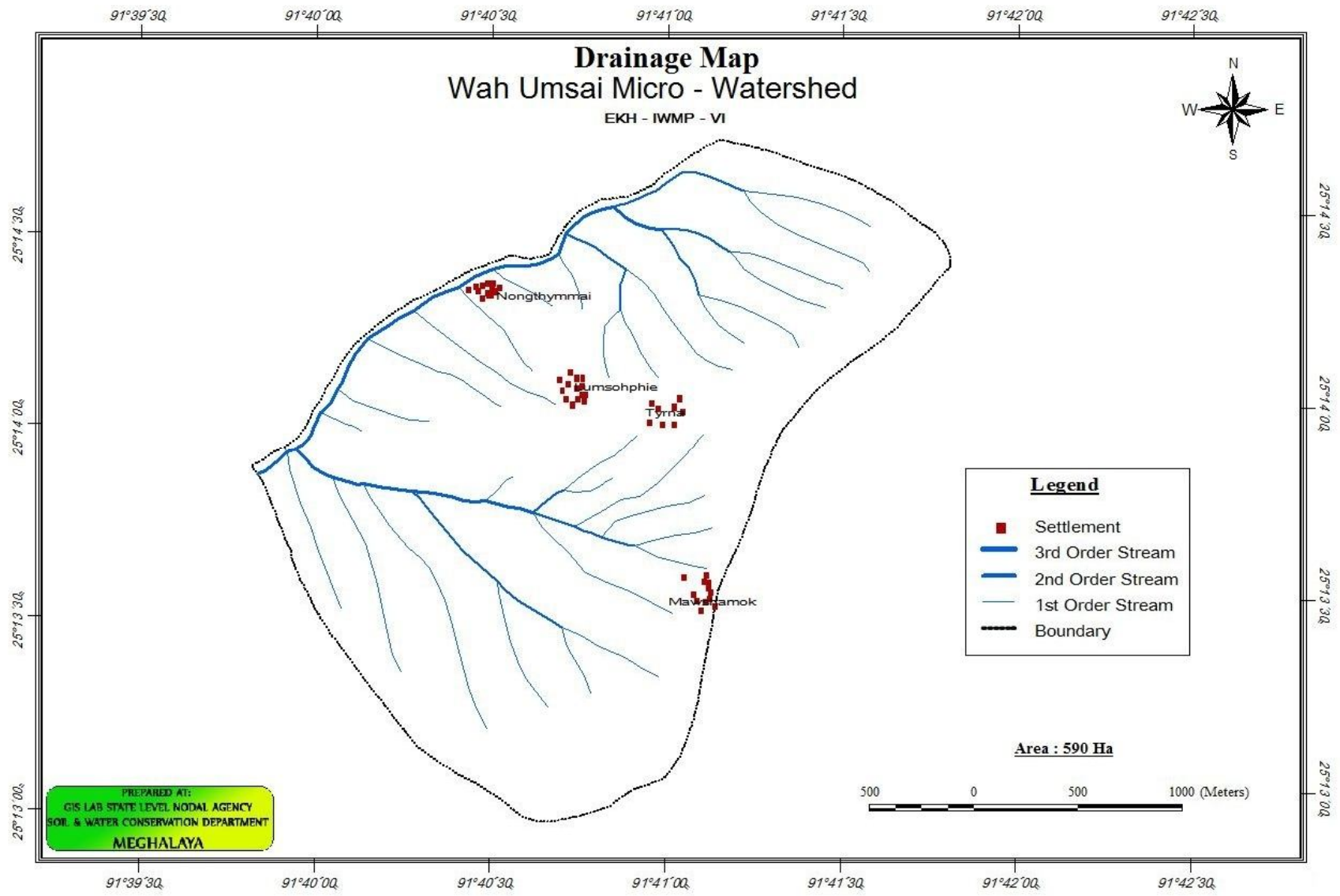


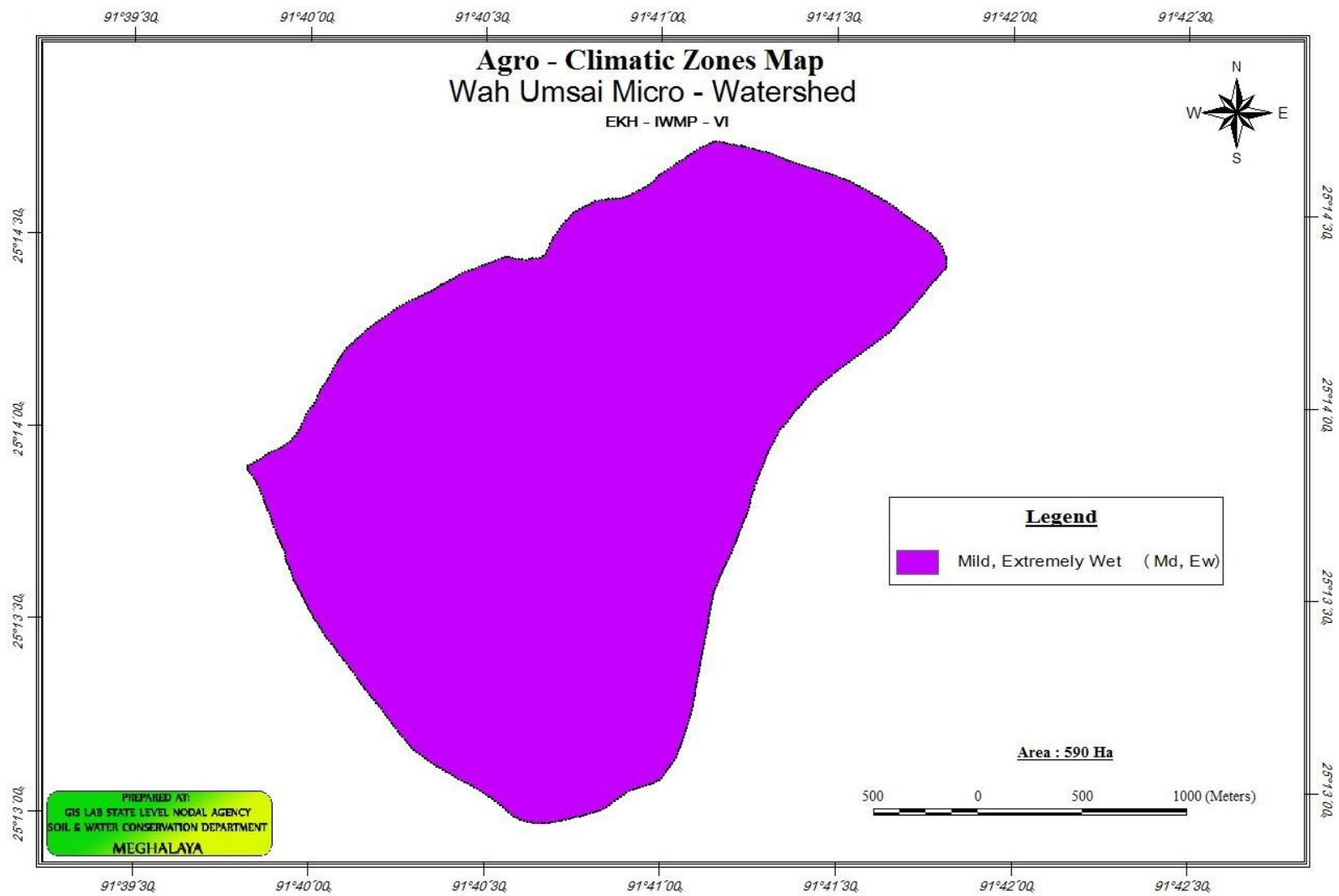


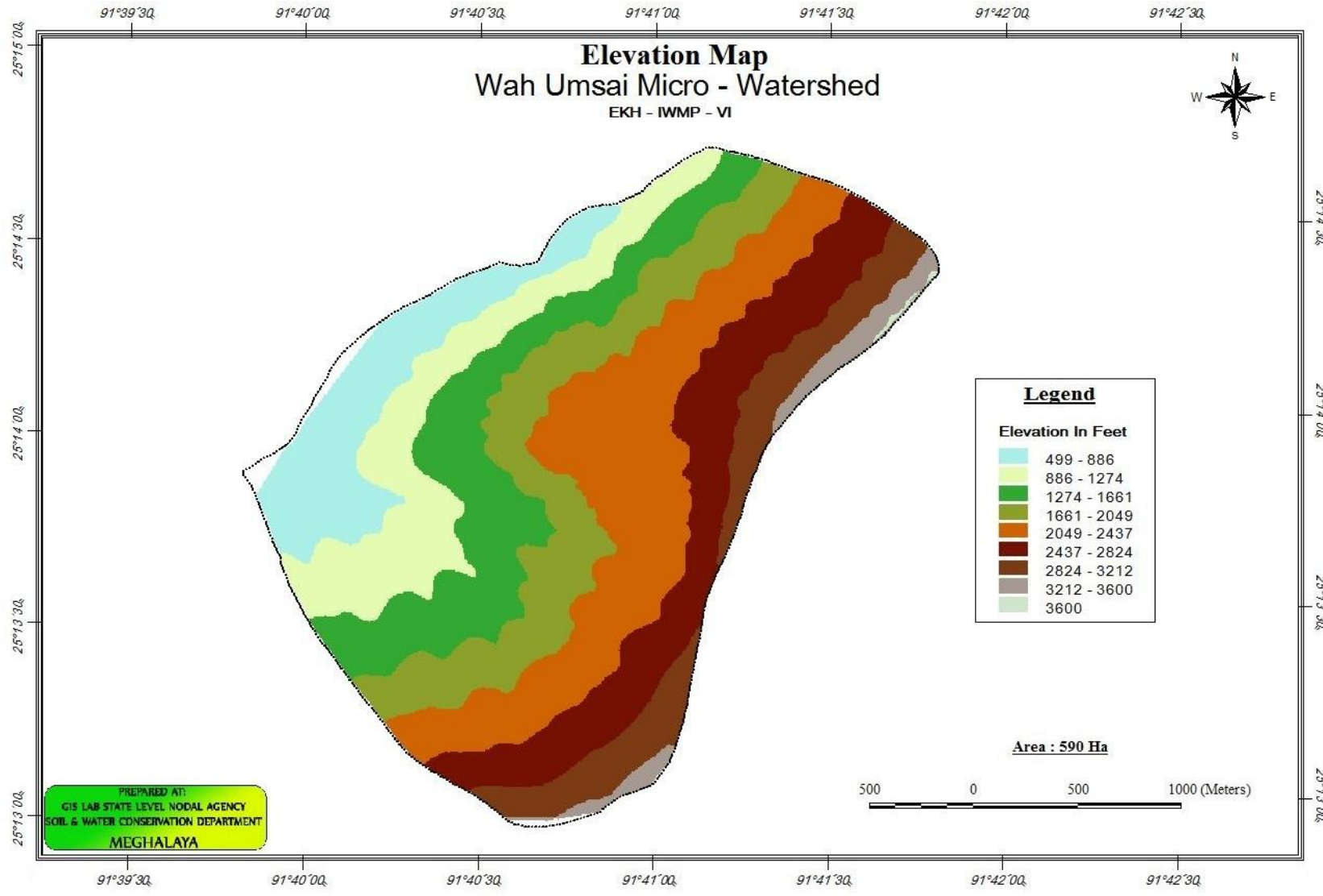


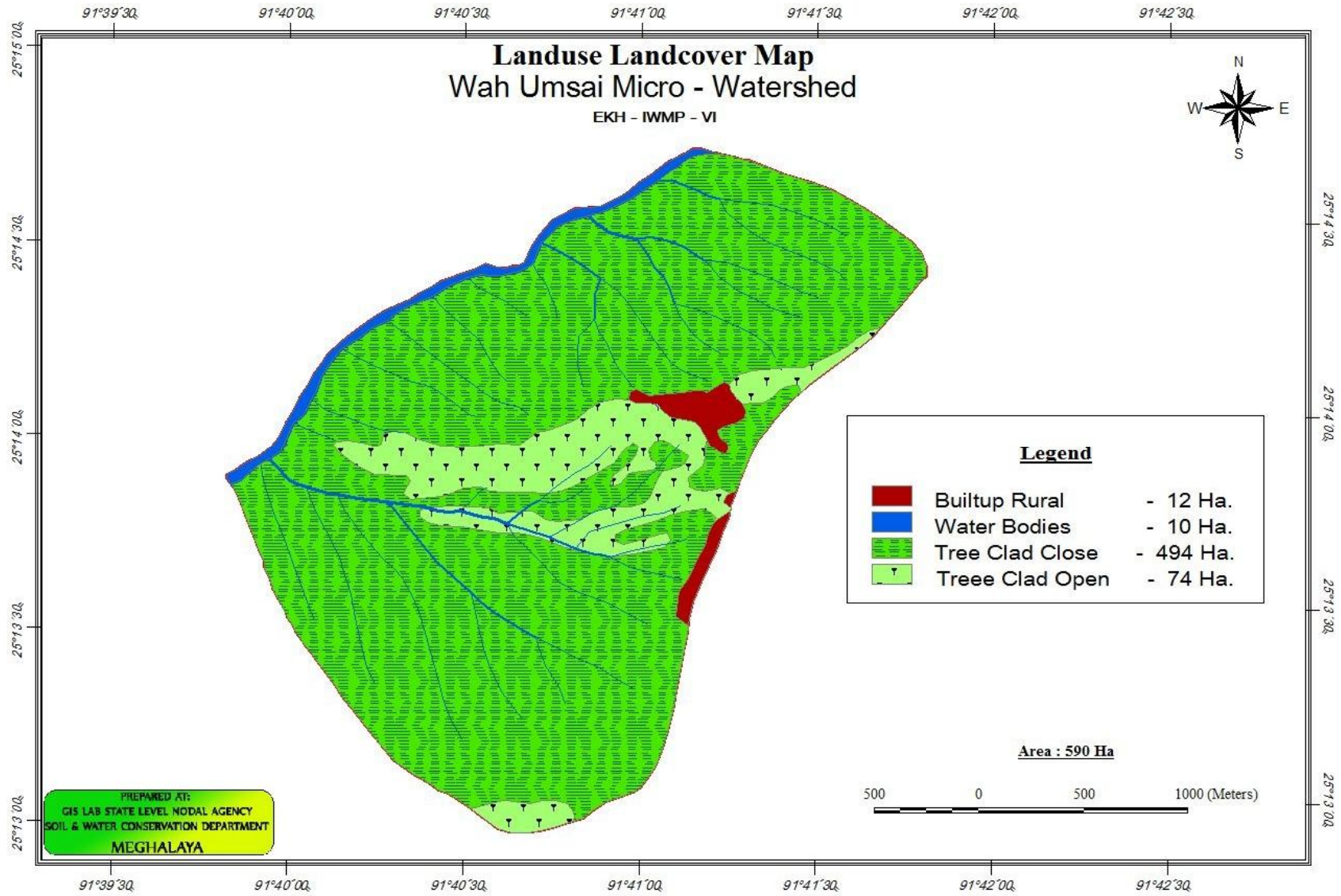


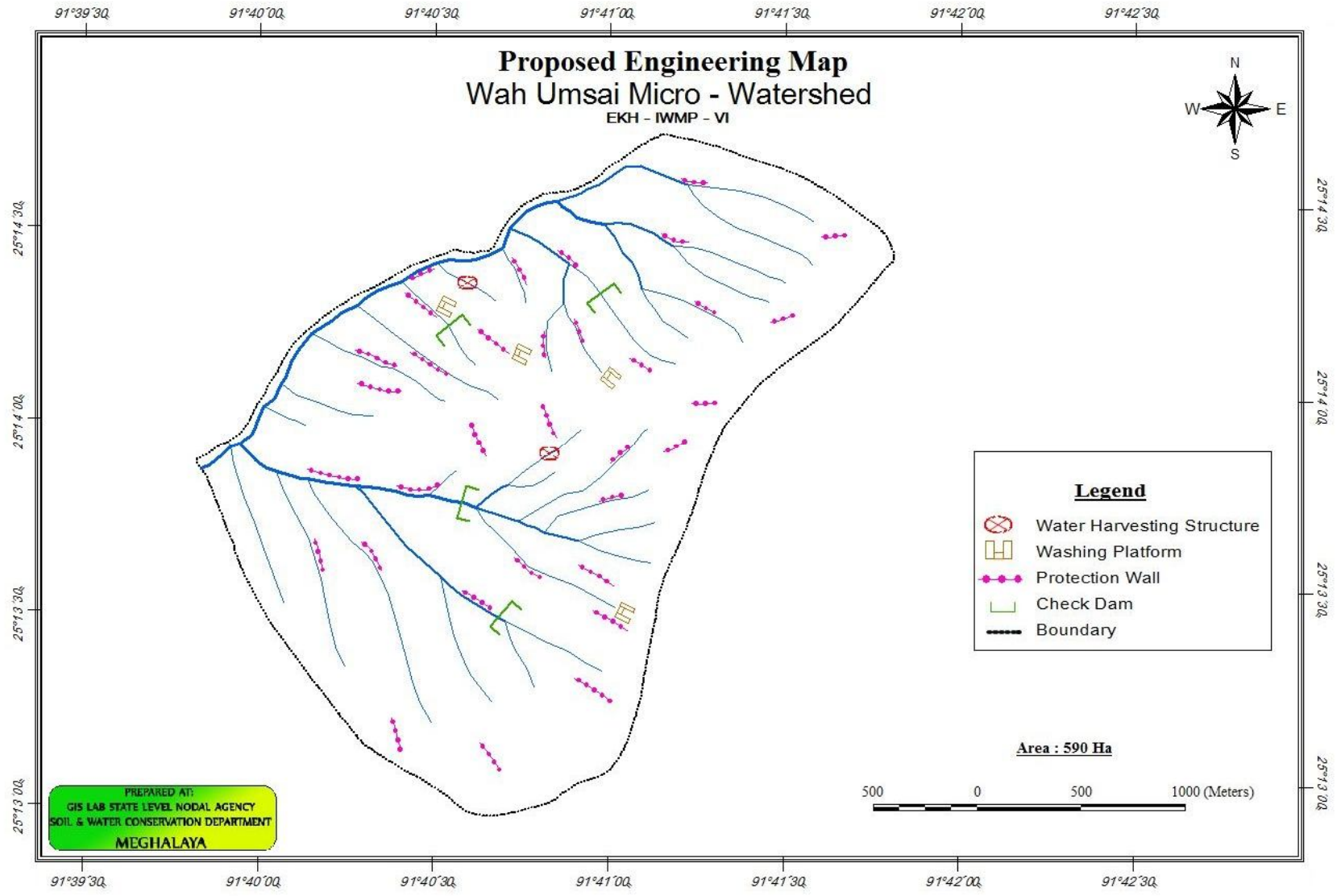




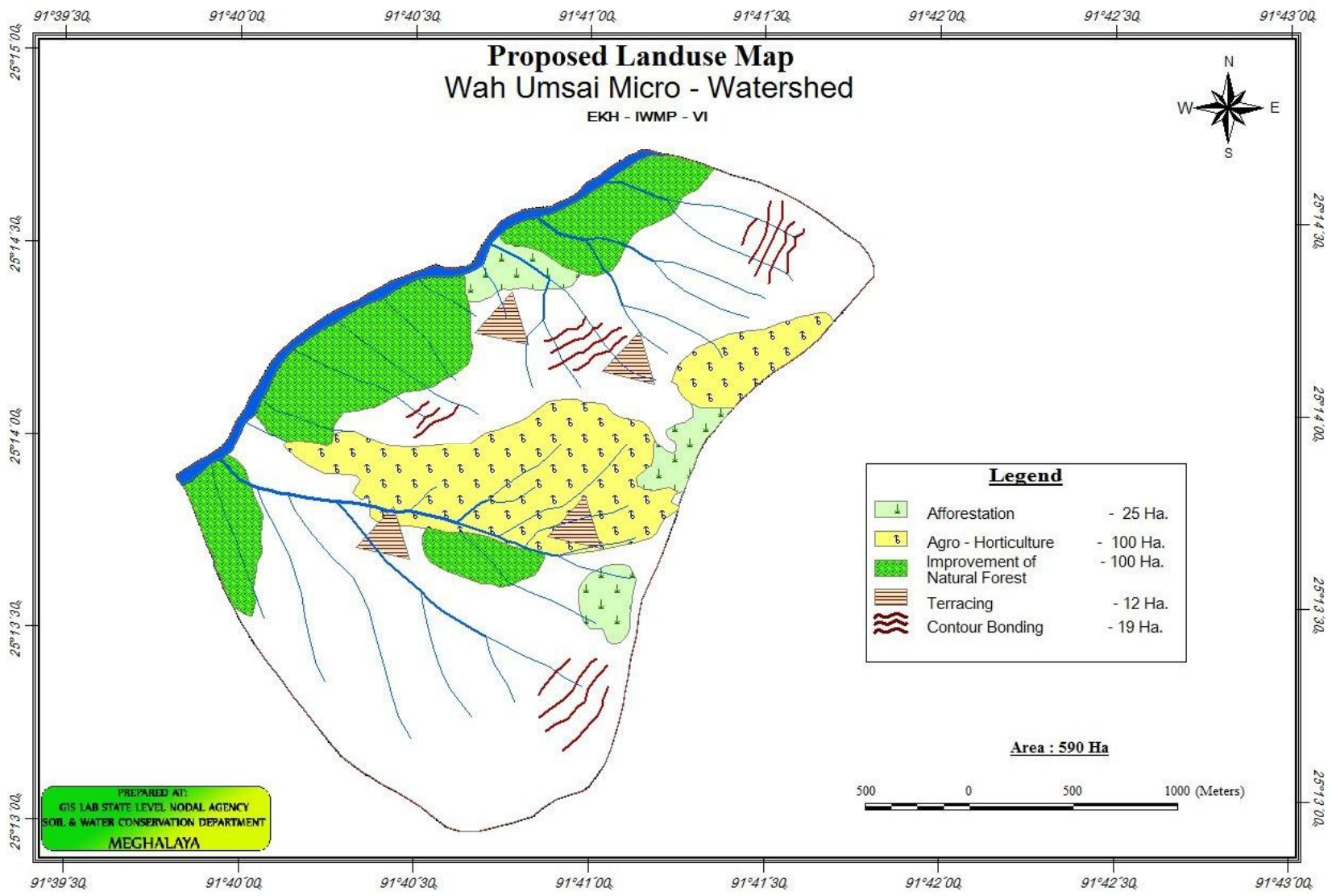


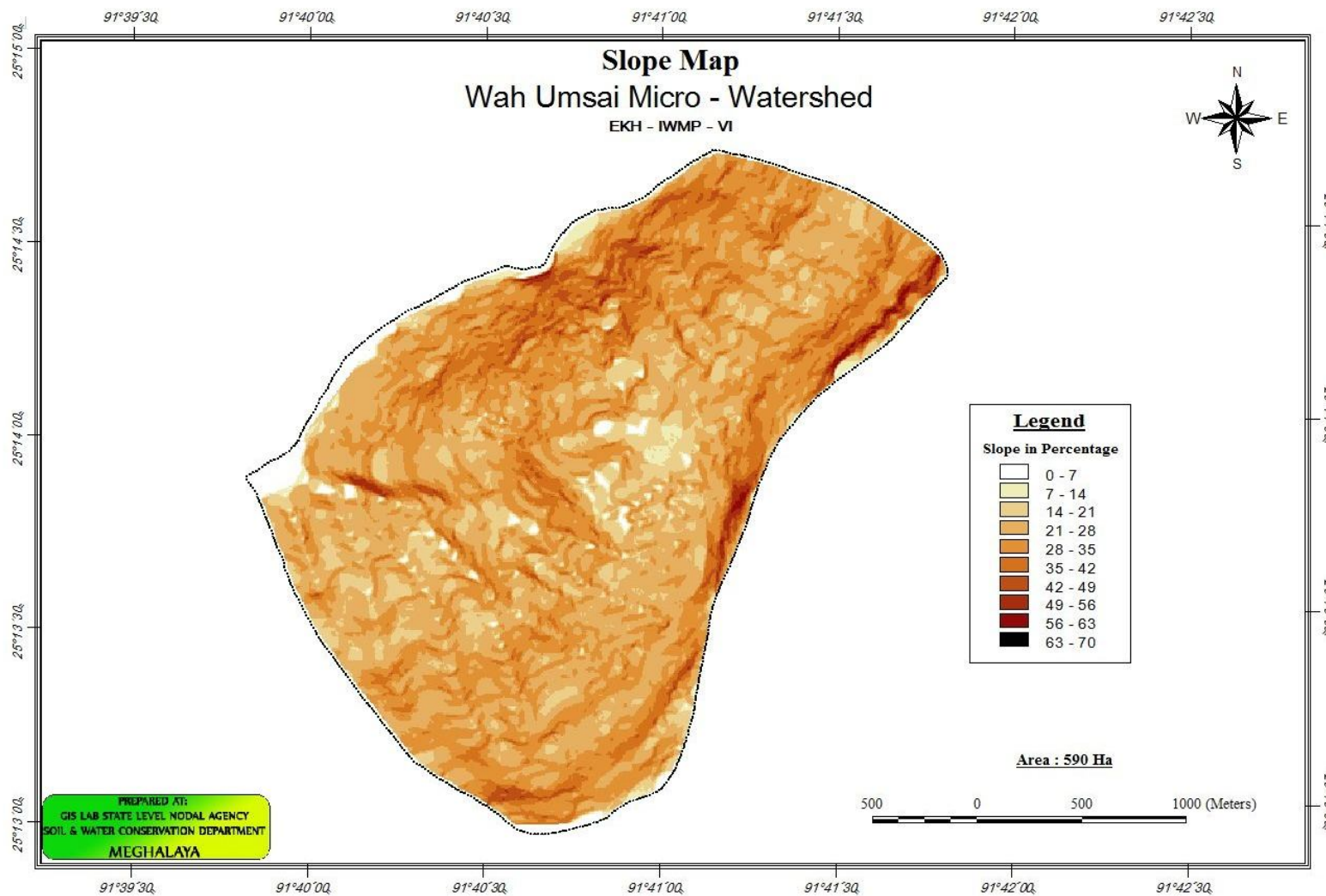












## **ANNEXURE II**

### **SOCIO-ECONOMIC SURVEY DETAILS**

**SOCIO ECONOMIC DATA OF MAWSIANGEI VILLAGE UNDER UPPER THARIA WATERSHED**

| Sl.No | Name Of Them Head of Family | Population |        |       | Literacy |            |       | Occupation   | Agriculture Area |      | Livestock |     |      |         |       | Annual Income |
|-------|-----------------------------|------------|--------|-------|----------|------------|-------|--------------|------------------|------|-----------|-----|------|---------|-------|---------------|
|       |                             | Male       | Female | Total | Literate | Illiterate | Total |              | Settled          | Jhum | Cow       | Pig | Goat | Poultry | Horse |               |
| 1.    | Shri. Baiaid Thangkhiew     | 03         | 04     | 07    | -        | -          | -     | Farmer       | -                | -    | -         | -   | -    | 10      | -     | 30,000        |
| 2.    | Shri. Samuel Tynthai        | 02         | 03     | 05    | 1        | 2          | 3     | Farmer       | -                | -    | -         | -   | -    | 03      | -     | 15,000        |
| 3.    | Shri. Santo Iawbor          | 03         | 04     | 07    | -        | -          | -     | Farmer       | -                | -    | -         | -   | -    | 15      | -     | 15,000        |
| 4.    | Shri. Shembha Dkhar         | 02         | 02     | 04    | -        | -          | -     | Farmer       | -                | -    | -         | -   | -    | -       | -     | 26,000        |
| 5.    | Shri. Pynwan Khongphai      | 04         | 04     | 08    | -        | -          | -     | Daily earner | -                | -    | -         | -   | -    | 06      | -     | 28,000        |
| 6.    | Shri. Trik Iawbor           | 01         | 02     | 03    | -        | -          | 1     | Daily earner | -                | -    | -         | -   | -    | -       | -     | 28,000        |
| 7.    | Shri. Ristarwel Majaw       | 02         | 03     | 05    | -        | 1          | 1     | Farmer       | -                | -    | -         | 1   | -    | 10      | -     | 23,000        |
| 8.    | Shri. Treilang Ryngnga      | 02         | 05     | 07    | -        | 1          | -     | Farmer       | -                | -    | -         | 1   | -    | 03      | -     | 25,000        |
| 9.    | Shri. Siewdor Buhphang      | 04         | 03     | 07    | -        | -          | -     | Farmer       | -                | -    | -         | -   | -    | -       | -     | 22,000        |
| 10.   | Smti. Embi Ryngnga          | 02         | 03     | 05    | -        | -          | -     | Farmer       | -                | -    | -         | -   | -    | 04      | -     | 20,000        |
| 11.   | Shri. Jim Nodrick Umdor     | 04         | 05     | 09    | 1        | -          | 1     | Farmer       | -                | -    | -         | -   | -    | 05      | -     | 28,000        |
| 12.   | Shri. Moonstar Iawbor       | 01         | 00     | 01    | -        | -          | -     | Farmer       | -                | -    | -         | -   | -    | -       | -     | 20,000        |
| 13.   | Smti. Sngur Iawbor          | 01         | 01     | 02    | -        | -          | -     | Farmer       | -                | -    | -         | -   | -    | -       | -     | 25,000        |
| 14.   | Shri. Dak Tynsong           | 05         | 03     | 08    | -        | 2          | 2     | Labourer     | -                | -    | -         | -   | -    | 06      | -     | 15,000        |
| 15.   | Smti. Eletric Ryngnga       | 03         | 01     | 04    | -        | -          | -     | Labourer     | -                | -    | -         | -   | -    | 05      | -     | 17,000        |

|     |                           |    |    |    |                 |   |   |                |   |   |   |   |   |   |    |   |        |
|-----|---------------------------|----|----|----|-----------------|---|---|----------------|---|---|---|---|---|---|----|---|--------|
|     |                           |    |    |    |                 |   |   | r              |   |   |   |   |   |   |    |   |        |
|     |                           | 39 | 43 | 82 | B.P.L = 52 Nos. |   |   |                |   |   |   |   |   |   |    |   |        |
| 16. | Shri. Swaran Khongphai    | 05 | 03 | 08 | -               | - | - | Labourer       | - | - | - | - | - | - | -  | - | 28,000 |
| 17. | Shri. Hestar Iawbor       | 03 | 04 | 07 | -               | - | - | Farmer         | - | - | - | - | - | - | -  | - | 20,000 |
| 18. | Shri. Weldon Majaw        | 03 | 02 | 05 | -               | 1 | - | Labourer       | - | - | - | - | - | - | 04 | - | 28,000 |
| 19. | Smti. Ophit Khonglam      | 03 | 03 | 06 | -               | - | - | Labourer       | - | - | - | - | - | - | 03 | - | 28,000 |
| 20. | Shri. Teibor Majaw        | 05 | 02 | 07 | -               | - | - | Labourer       | - | - | - | - | - | - | 02 | - | 28,000 |
| 21. | Shri. Balwel Majaw        | 03 | 02 | 05 | -               | - | - | Farmer         | - | - | - | - | - | - | 10 | - | 19,000 |
| 22. | Shri. Love Massar         | 01 | 06 | 07 | -               | - | - | Farmer         | - | - | - | - | - | - | 10 | - | 22,000 |
| 23. | Smti. Riaioh Majaw        | 04 | 02 | 06 | -               | - | - | Farmer         | - | - | - | - | - | - | 04 | - | 26,000 |
| 24. | Shri. Losten Buhphang     | 02 | 04 | 06 | -               | 1 | 1 | Daily Labourer | - | - | - | - | - | - | 08 | - | 28,000 |
| 25. | Shri. Helin Mawpat        | 00 | 01 | 01 | -               | - | - | Daily Labourer | - | - | - | - | - | - | -  | - | 28,000 |
| 26. | Shri. Albis Tynthai       | 03 | 05 | 08 | -               | - | - | Farmer         | - | - | - | - | - | - | -  | - | 20,000 |
| 27. | Smti. Baioh Massar        | 05 | 05 | 10 | -               | 1 | 1 | Farmer         | - | - | - | - | - | - | -  | - | 23,000 |
| 28. | Shri. Etlar Khongshei     | 01 | 00 | 01 | -               | - | - | Daily Labourer | - | - | - | - | - | - | -  | - | 28,000 |
| 29. | Smti. Sohtimai Sohtun     | 01 | 03 | 04 | -               | - | - | Daily Labourer | - | - | - | - | - | - | 06 | - | 28,000 |
| 30. | Smti. Pleitimai Khongphai | 01 | 03 | 04 | -               | 1 | 1 | Daily Labourer | - | - | - | - | - | - | 02 | - | 28,000 |
| 31. | Smti. Dibona Khongphai    | 02 | 03 | 05 | -               | - | - | Labourer       | - | - | - | - | - | - | 05 | - | 28,000 |
| 32. | Smti. Mebitina Iawbor     | 02 | 03 | 05 | -               | - | - | Farmer         | - | - | - | - | - | - | 02 | - | 23,000 |
| 33. | Smti. Twin Thangkhiew     | 05 | 01 | 06 | -               | - | - | Farmer         | - | - | - | - | - | - | 08 | - | 25,000 |
| 34. | Smti. Ikoniir             | 02 | 01 | 03 | -               | - | - | Farmer         | - | - | - | - | - | - | 04 | - | 20,000 |

|     |                       |           |           |            |   |   |   |                |   |   |   |   |    |    |   |        |
|-----|-----------------------|-----------|-----------|------------|---|---|---|----------------|---|---|---|---|----|----|---|--------|
|     | Thangkhiew            |           |           |            |   |   |   |                |   |   |   |   |    |    |   |        |
| 35. | Smti. Lama Thangkhiew | 01        | 02        | 03         | - | - | - | Farmer         | - | - | - | - | -  | 05 | - | 15,000 |
|     | <b>Total</b>          | <b>52</b> | <b>55</b> | <b>107</b> |   |   |   |                |   |   |   |   |    |    |   |        |
| 36. | Everynam Massar       | 02        | 02        | 04         | - | - | - | Farmer         | - | - | - | - | -  | -  | - | 18,000 |
| 37. | Riewkhud Massar       | 01        | 01        | 02         | - | - | - | Farmer         | - | - | - | - | -  | 04 | - | 15,000 |
| 38. | Edret Ryngnga         | -         | -         | -          | - | - | - | Farmer         | - | - | - | - | -  | 04 | - | 17,000 |
| 39. | Thwin Thangkhiew      | 04        | 01        | 05         | - | - | - | Farmer         | - | - | - | - | -  | 05 | - | 20,000 |
| 40. | Alik Khongphai        | -         | -         | -          | - | - | - | Farmer         | - | - | - | - | -  | 04 | - | 20,000 |
| 41. | Pynkhlain Buhphang    | 01        | 01        | 02         | - | - | - | Daily Labourer | - | - | - | - | -  | 03 | - | 15,000 |
| 42. | Lamphrang Thangkhiew  | 01        | -         | 01         | - | - | - | Daily Labourer | - | - | - | - | -  | 05 | - | 17,000 |
| 43. | Liiod Majaw           | 03        | 03        | 03         | - | - | - | Farmer         | - | - | - | - | -  | 06 | - | 25,000 |
| 44. | Remi Thabah           | 02        | 03        | 05         | - | - | - | Farmer         | - | - | - | - | -  | 07 | - | 23,000 |
| 45. | Serman Khongphai      | 03        | 01        | 04         | - | - | - | Daily Labourer | - | - | - | - | -  | 03 | - | 28,000 |
| 46. | Inos Ryngnga          | 05        | 02        | 07         | - | - | - | Farmer         | - | - | - | - | 02 | 10 | - | 15,000 |
| 47. | Tyngshain Ryngnga     | 05        | 03        | 08         | - | - | - | Farmer         | - | - | - | - | -  | 07 | - | 13,000 |
| 48. | Rimunbok Ryngnga      | 01        | 07        | 08         | - | - | - | Farmer         | - | - | - | - | -  | 09 | - | 28,000 |
| 49. | Ibora Khongphai       | 01        | 01        | 02         | - | - | - | Farmer         | - | - | - | - | -  | 03 | - | 17,000 |
| 50. | Simos Tham            | 04        | 02        | 06         | - | - | - | Farmer         | - | - | - | - | -  | 05 | - | 15,000 |
| 51. | Biplo Iawbor          | 05        | 02        | 07         | - | - | - | Farmer         | - | - | - | - | -  | 06 | - | 22,000 |
| 52. | Jingkmien Thangkhiew  | 01        | 02        | 03         | - | - | - | Farmer         | - | - | - | - | -  | 07 | - | 24,000 |
| 53. | Dwin Thangkhiew       | -         | 03        | 03         | - | - | - | Farmer         | - | - | - | - | -  | 04 | - | 20,000 |
| 54. | Training Thangkhiew   | 05        | 04        | 09         | - | - | - | Daily Labourer | - | - | - | - | 01 | 05 | - | 28,000 |

|     | Total                | 44 | 38 | 82 |   |    |    |                |   |   |   |    |   |    |   |        |
|-----|----------------------|----|----|----|---|----|----|----------------|---|---|---|----|---|----|---|--------|
| 55. | Wolling Thangkhiew   | 04 | 04 | 08 | - | -  | -  | Farmer         | - | - | - | 02 | - | 09 | - | 17,000 |
| 56. | Ephri Ryngnga        | 02 | 01 | 03 | - | -  | -  | Farmer         | - | - | - | -  | - | 07 | - | 18,000 |
| 57. | Shaintimon Massar    | -  | 02 | 02 | - | -  | -  | Farmer         | - | - | - | -  | - | 03 | - | 15,000 |
| 58. | Oming Khongshei      | 04 | 03 | 07 | - | -  | -  | Daily Labourer | - | - | - | -  | - | 08 | - | 28,000 |
| 59. | Shilbi Khongphai     | 02 | 01 | 03 | - | -  | -  | Labourer       | - | - | - | -  | - | 04 | - | 28,000 |
| 60. | Riewspah Iawbor      | 04 | -  | 04 | - | -  | -  | Farmer         | - | - | - | -  | - | 07 | - | 15,000 |
| 61. | Rat Iawbor           | 01 | -  | 01 | - | -  | -  | Farmer         | - | - | - | -  | - | 05 | - | 18,000 |
| 62. | Rilan Iawbor         | 09 | 01 | 10 | - | -  | -  | Farmer         | - | - | - | -  | - | 11 | - | 20,000 |
| 63. | Miss Iawbor          | 05 | 01 | 06 | - | -  | -  | Farmer         | - | - | - | -  | - | 05 | - | 22,000 |
| 64. | Hehbor Ryngnga       | 02 | 02 | 04 | - | -  | -  | Farmer         | - | - | - | -  | - | 06 | - | 30,000 |
| 65. | Khiah Massar         | 03 | 02 | 05 | - | -  | -  | Farmer         | - | - | - | -  | - | 06 | - | 25,000 |
| 66. | Kop Mawkon           | 01 | 01 | 02 | - | -  | -  | Farmer         | - | - | - | -  | - | 04 | - | 20,000 |
| 67. | Iohi Khonglam        | 04 | 03 | 07 | - | -  | -  | Daily Labourer | - | - | - | -  | - | 09 | - | 28,000 |
| 68. | Tinet Khongkhriam    | 04 | 03 | 07 | - | 01 | 01 | Daily Labourer | - | - | - | -  | - | 05 | - | 28,000 |
| 69. | Khrawbok Thangkhiew  | 01 | 01 | 02 | - | -  | -  | Daily Labourer | - | - | - | -  | - | 09 | - | 20,000 |
| 70. | Nangbha Dkhar        | 02 | 02 | 04 | - | -  | -  | Farmer         | - | - | - | -  | - | 05 | - | 16,000 |
| 71. | Badskhem Thangkhiew  | 02 | 02 | 04 | - | -  | -  | Farmer         | - | - | - | -  | - | 07 | - | 22,000 |
| 72. | Dirabad Khongthohrem | 03 | 03 | 06 | - | -  | -  | Farmer         | - | - | - | -  | - | 05 | - | 20,000 |
| 73. | Emdor Khongthohrem   | 01 | 01 | 02 | - | -  | -  | Daily Labourer | - | - | - | -  | - | 04 | - | 28,000 |





|     |                          |           |           |           |   |   |   |              |   |      |   |   |   |    |   |        |
|-----|--------------------------|-----------|-----------|-----------|---|---|---|--------------|---|------|---|---|---|----|---|--------|
| 9.  | Shri. Ketila Tynthai     | 01        | 01        | 02        | - | - | - | Farmer       | - | -    | - | - | - | -  | - | 20,000 |
| 10. | Shri. Sbnlang Khongshei  | 01        | 03        | 04        | - | - | - | Farmer       | - | -    | - | - | - | 02 | - | 28,000 |
| 11. | Shri. Rikod Massar       | 03        | 02        | 05        | - | - | - | Farmer       | - | -    | - | - | - | -  | - | 19,000 |
| 12. | Shri. Klontar Khongknian | 03        | 02        | 05        | - | - | - | Farmer       | - | -    | - | - | - | -  | - | 20,000 |
| 13. | Shri. Thwil Tham         | -         | 01        | 01        | - | - | - | Farmer       | - | -    | - | - | - | 20 | - | 23,000 |
| 14. | Shri. Lehbha Tynthai     | 04        | 04        | 08        | - | - | - | Labourer     | - | -    | - | - | - | 50 | - | 22,000 |
| 15. | Shri. Eswin Tynthai      | 01        | 01        | 02        | 1 | - | 1 | Labourer     | - | -    | - | 2 | - | 30 | - | 28,000 |
| 16. | Shri. Deman Ryngnga      | 02        | 01        | 03        | - | - | - | Farmer       | - | -    | - | - | - | -  | - | 28,000 |
| 17. | Shri. Kobar Massar       | 03        | 01        | 04        | 1 | - | 1 | Farmer       | - | Jhum | - | 2 | - | -  | - | 25,000 |
| 18. | Shri. Deben Massar       | 04        | 02        | 06        | - | - | - | Farmer       | - | -    | - | - | - | -  | - | 22,000 |
| 19. | Shri. Anshar Khongkhnian | 02        | 02        | 04        | - | - | - | Farmer       | - | -    | - | - | - | -  | - | 20,000 |
| 20. | Shri. Bok Tyngsong       | 05        | 03        | 08        | - | - | - | Daily earner | - | -    | - | - | - | -  | - | 28,000 |
| 21. | Shri. Phuon Krangthah    | -         | 01        | 01        | - | - | - | Farmer       | - | -    | - | - | - | 10 | - | 25,000 |
|     |                          | <b>51</b> | <b>43</b> | <b>94</b> |   |   |   |              |   |      |   |   |   |    |   |        |
| 22. | Smti. Novina Khongthah   | -         | 01        | 01        | - | - | - | Farmer       | - | -    | - | - | - | 10 | - | 22,000 |
| 23. | Smti. Melbina Marbaniang | 03        | 03        | 06        | 1 | - | 1 | Farmer       | - | Jhum | - | - | - | 03 | - | 28,000 |
| 24. | Shri. Donso Tding        | 01        | 03        | 04        | - | - | - | Daily earner | - | -    | - | 3 | - | -  | - | 25,000 |
| 25. | Shri. Daliaw Raam        | 03        | 01        | 04        | - | - | - | Farmer       | - | -    | - | 1 | - | -  | - | 28,000 |
| 26. | Shri. Shaniah Thabah     | 02        | 02        | 04        | - | - | - | Daily earner | - | -    | - | 2 | - | -  | - | 28,000 |

|     |                           |           |           |           |   |   |   |              |   |      |   |   |   |    |   |        |
|-----|---------------------------|-----------|-----------|-----------|---|---|---|--------------|---|------|---|---|---|----|---|--------|
| 27. | Shri. William Khongkhnian | 03        | 01        | 04        | - | - | - | Daily earner | - | -    | - | - | - | 08 | - | 28,000 |
| 28. | Shri. Sukhanaia Massar    | 03        | 01        | 04        | - | - | - | Farmer       | - | -    | - | 2 | - | 07 | - | 23,000 |
| 29. | Smti. Balah Khongshei     | 01        | 01        | 02        | - | - | - | Farmer       | - | Jhum | - | - | - | -  | - | 20,000 |
| 30. | Smti. Rijan Khongshei     | 06        | 05        | 11        | - | - | - | Farmer       | - | -    | - | - | - | -  | - | 25,000 |
| 31. | Shri. Koming Thabah       | 01        | 03        | 04        | - | - | - | Farmer       | - | -    | - | - | - | -  | - | 20,000 |
| 32. | Smti. Plesibon Buhphang   | 04        | 01        | 05        | - | - | - | Farmer       | - | -    | - | - | - | -  | - | 19,000 |
| 33. | Smti. Klistina Massar     | 01        | 01        | 02        | - | - | - | Farmer       | - | -    | - | - | - | -  | - | 23,000 |
| 34. | Shri. Nicolas Riahtam     | 02        | 04        | 06        | - | - | - | Daily earner | - | -    | - | - | - | -  | - | 28,000 |
| 35. | Shri. Story Khriam        | 01        | 01        | 02        | - | - | - | Daily earner | - | -    | - | 1 | - | -  | - | 28,000 |
| 36. | Smti. Rophina Massar      | 02        | 05        | 07        | - | - | - | Farmer       | - | -    | - | - | - | 08 | - | 25,000 |
| 37. | Shri. Suk Khriam          | 03        | 02        | 05        | - | - | - | Daily earner | - | -    | - | - | - | -  | - | 28,000 |
| 38. | Smti. Santilian Tynthai   | 01        | 02        | 03        | - | - | - | Farmer       | - | Jhum | - | - | - | -  | - | 23,000 |
| 39. | Smti. Englan Tding        | 01        | 01        | 02        | - | - | - | Farmer       | - | -    | - | - | - | -  | - | 24,000 |
| 40. | Smti. Wanda Tding         | 01        | 01        | 02        | - | - | - | Farmer       | - | -    | - | - | - | -  | - | 22,000 |
| 41. | Smti. Sirian Syngai       | -         | 01        | 01        | - | - | - | Farmer       | - | Jhum | - | - | - | 05 | - | 22,000 |
| 42. | Smti. Phartin Massar      | 05        | 01        | 06        | - | - | - | Farmer       | - | -    | - | - | - | -  | - | 20,000 |
| 43. | Shri. Kmen Singh          | 03        | 02        | 05        | - | - | - | Farmer       | - | Jhum | - | - | - | -  | - | 23,000 |
| 44. | Shri. Willing Riahtam     | 05        | 04        | 09        | - | - | - | Farmer       | - | Jhum | - | - | - | 13 | - | 19,000 |
|     |                           | <b>52</b> | <b>47</b> | <b>99</b> |   |   |   |              |   |      |   |   |   |    |   |        |
| 45. | Smti. Ribo Khongkhnian    | 04        | 06        | 10        | - | - | - | Farmer       | - | -    | - | - | - | -  | - | 24,000 |
| 46. | Shri. Ramlus Majaw        | 04        | 01        | 05        | - | - | - | Daily earner | - | Jhum | - | 1 | - | -  | - | 28,000 |
| 47. | Smti. Twil Majaw          | 04        | 03        | 07        | - | - | - | Farmer       | - | -    | - | - | - | 10 | - | 23,000 |

|     |                           |    |    |    |   |   |   |              |   |      |   |   |    |    |   |        |
|-----|---------------------------|----|----|----|---|---|---|--------------|---|------|---|---|----|----|---|--------|
| 48. | Smti. Dihmon Majaw        | 05 | 04 | 09 | - | - | - | Farmer       | - | -    | - | - | -  | -  | - | 20,000 |
| 49. | Shri. Alphon Riahtam      | 04 | 06 | 10 | - | - | - | Daily earner | - | Jhum | - | - | -  | -  | - | 28,000 |
| 50. | Smti. Drian Thabah        | 03 | 04 | 07 | - | - | - | Farmer       | - | -    | - | 2 | -  | -  | - | 23,000 |
| 51. | Smti. Kisona Majaw        | 01 | 04 | 05 | - | - | - | Farmer       | - | -    | - | - | -  | -  | - | 15,000 |
| 52. | Smti. Jalmeris Riahtam    | 02 | 04 | 06 | - | - | - | Farmer       | - | -    | - | - | 01 | 15 | - | 19,000 |
| 53. | Shri. Hip Massar          | 02 | 04 | 06 | - | - | - | Daily earner | - | -    | - | - | -  | -  | - | 28,000 |
| 54. | Shri. Rilan Khongshei     | 05 | 03 | 08 | - | - | - | Daily earner | - | -    | - | 2 | -  | -  | - | 28,000 |
| 55. | Smti. Dilo Tyngsong       | 01 | 01 | 02 | - | - | - | Farmer       | - | -    | - | 1 | -  | -  | - | 25,000 |
| 56. | Shri. Bok Massar          | 03 | 02 | 05 | - | - | - | Farmer       | - | -    | - | - | -  | 40 | - | 23,000 |
| 57. | Shri. Espar Nailar        | 03 | 02 | 05 | - | - | - | Daily earner | - | -    | - | - | -  | 02 | - | 28,000 |
| 58. | Shri. Banan Tynthai       | 03 | 02 | 05 | - | - | - | Farmer       | - | Jhum | - | - | -  | 05 | - | 22,000 |
| 59. | Smti. Tyngkai khongkhnian | 01 | 01 | 02 | - | - | - | Farmer       | - | Jhum | - | - | -  | -  | - | 22,000 |
| 60. | Smti. Thwir Majaw         | -  | 01 | 01 | - | - | - | Farmer       | - | -    | - | 4 | -  | -  | - | 20,000 |
| 61. | Smti. Jenita Majaw        | -  | 01 | 01 | - | - | - | Farmer       | - | -    | - | - | -  | -  | - | 23,000 |
| 62. | Smti. Daphira Majaw       | 01 | 01 | 02 | 1 | - | - | Farmer       | - | -    | - | - | -  | -  | - | 22,000 |
| 63. | Smti. Banrilang Majaw     | 01 | 02 | 03 | - | - | - | Farmer       | - | -    | - | - | -  | -  | - | 22,000 |
| 64. | Shri. Massilin Majaw      | 01 | 01 | 02 | - | - | - | Daily earner | - | -    | - | 1 | -  | -  | - | 28,000 |

|     |                         |           |           |            |   |   |   |              |   |      |   |   |   |    |   |        |
|-----|-------------------------|-----------|-----------|------------|---|---|---|--------------|---|------|---|---|---|----|---|--------|
| 65. | Smti. Jinghun Majaw     | 02        | 02        | 04         | - | - | - | Farmer       | - | Jhum | - | - | - | 20 | - | 20,000 |
| 66. | Shri. Bikanan Khongthah | 02        | 02        | 04         | - | - | - | Farmer       | - | Jhum | - | - | - | 30 | - | 22,000 |
|     |                         | <b>52</b> | <b>57</b> | <b>109</b> |   |   |   |              |   |      |   |   |   |    |   |        |
| 67. | Smti. Milibon Buhphang  | 02        | 03        | 05         | - | - | - | Farmer       | - | Jhum | - | 1 | - | 05 | - | 23,000 |
| 68. | Shri. Wil Khongshei     | 01        | 02        | 03         | - | - | - | Daily earner | - | -    | - | 2 | - | 10 | - | 28,000 |
| 69. | Shri. Janai Khongshei   | 03        | 04        | 07         | - | - | - | Daily earner | - | -    | - | 1 | - | 05 | - | 28,000 |
| 70. | Shri. Kenis Khongkhnian | 02        | 01        | 03         | 1 | 2 | 3 | Daily earner | - | -    | - | - | - | 15 | - | 25,000 |
| 71. | Shri. Puson Iawram      | 02        | 01        | 03         | 1 | 2 | 3 | Farmer       | - | -    | - | - | - | -  | - | 28,000 |
| 72. | Shri. Pinto Khongkhnian | 02        | 01        | 03         | - | - | - | Farmer       | - | Jhum | - | - | - | -  | - | 25,000 |
| 73. | Shri. Lokes Riahtam     | 03        | -         | 03         | - | - | - | Farmer       | - | Jhum | - | - | - | 20 | - | 20,000 |
| 74. | Shri. Bna Bhatia        | 02        | 01        | 03         | - | - | - | Farmer       | - | Jhum | - | - | - | 15 | - | 23,000 |
| 75. | Shri. Dorin Majaw       | 01        | 03        | 04         | - | - | - | Farmer       | - | Jhum | - | - | - | 10 | - | 15,000 |
| 76. | Smti. Ebrista Majaw     | -         | 01        | 01         | - | - | - | Farmer       | - | Jhum | - | 3 | - | -  | - | 20,000 |
| 77. | Shri. Solomon Tyngsong  | 01        | -         | 01         | - | - | - | Farmer       | - | Jhum | - | - | - | -  | - | 22,000 |

|  |  |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|----|----|----|--|--|--|--|--|--|--|--|--|--|--|--|--|
|  |  | 19 | 17 | 36 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|----|----|----|--|--|--|--|--|--|--|--|--|--|--|--|--|

**Population :- Male:174 Female : 164 Total : 338**

**SOCIO ECONOMIC DATA OF TYRNA VILLAGE WAH UMSAI WATERSHED**

| Sl.No | Name Of Them Head of Family | Population |        |       | Literacy |            |       | Occupation | Agriculture Area |      | Livestock |     |      |         |       | Annual Income |
|-------|-----------------------------|------------|--------|-------|----------|------------|-------|------------|------------------|------|-----------|-----|------|---------|-------|---------------|
|       |                             | Male       | Female | Total | Literate | Illiterate | Total |            | Settled          | Jhum | Cow       | Pig | Goat | Poultry | Horse |               |
| 1.    | Sharai Pde                  | 02         | 05     | 07    | 3        | 4          | 7     | Labourer   | -                | -    | -         | 1   | -    | 01      | -     | 28,000        |
| 2.    | Melson Pde                  | 03         | 02     | 05    | -        | -          | -     | Labourer   | -                | -    | -         | 1   | -    | 01      | -     | 28,000        |
| 3.    | Andrial Wansai              | 02         | 02     | 04    | 1        | 3          | 4     | Farmer     | -                | -    | -         | -   | -    | 01      | -     | 28,000        |
| 4.    | Brian Sohkhlet              | 01         | 02     | 03    | 1        | 2          | 3     | Farmer     | -                | -    | -         | 1   | -    | 01      | -     | 23,000        |
| 5.    | Golget Chyne                | 05         | 02     | 07    | -        | -          | -     | Farmer     | -                | -    | -         | -   | -    | 01      | -     | 20,000        |
| 6.    | Dhesto Sawian               | 03         | 02     | 05    | 2        | 3          | 5     | Farmer     | -                | -    | -         | 1   | -    | 01      | -     | 23,000        |
| 7.    | Jesentus Shati              | 03         | 04     | 07    | -        | -          | -     | Farmer     | -                | -    | -         | 1   | -    | 01      | -     | 20,000        |
| 8.    | Endina Kharpuri             | 01         | 01     | 02    | -        | -          | -     | Farmer     | -                | -    | -         | 1   | -    | 01      | -     | 26,000        |
| 9.    | Grifit Sohkhlet             | 05         | 02     | 07    | 3        | 4          | 7     | Farmer     | -                | -    | -         | 1   | -    | 01      | -     | 20,000        |
| 10.   | Norwel Wanphai              | 02         | 02     | 04    | -        | -          | -     | Farmer     | -                | -    | -         | -   | -    | -       | -     | 22,000        |
| 11.   | Maira Pde                   | 02         | 04     | 06    | 2        | 4          | 6     | Farmer     | -                | -    | -         | -   | -    | 01      | -     | 24,000        |
| 12.   | Khrin Wahlang               | 01         | 03     | 04    | -        | -          | -     | Farmer     | -                | -    | -         | 1   | -    | 01      | -     | 26,000        |
| 13.   | Thrin Wahlang               | 02         | 06     | 08    | -        | -          | -     | Farmer     | -                | -    | -         | 1   | -    | 01      | -     | 28,000        |
| 14.   | Jeson Wahlang               | 02         | 02     | 04    | -        | -          | -     | Farmer     | -                | -    | -         | -   | -    | -       | -     | 22,000        |
| 15.   | Beling Pde                  | 04         | 03     | 07    | -        | -          | -     | Farmer     | -                | -    | -         | 1   | -    | 01      | -     | 23,000        |
| 16.   | Prem Sohkhlet               | 04         | 03     | 07    | 3        | 4          | 7     | Farmer     | -                | -    | -         | -   | -    | 01      | -     | 25,000        |
| 17.   | Roi Wahlang                 | 03         | 02     | 05    | -        | -          | -     | Labourer   | -                | -    | -         | 1   | -    | 01      | -     | 22,000        |
| 18.   | Seibor Pde                  | 01         | 01     | 02    | -        | -          | -     | Labourer   | -                | -    | -         | -   | -    | -       | -     | 24,000        |

|     |                    |    |    |    |   |   |   |          |   |   |   |   |   |    |   |        |
|-----|--------------------|----|----|----|---|---|---|----------|---|---|---|---|---|----|---|--------|
| 19. | Golstar Syiemlieh  | 04 | 01 | 05 | - | - | - | Labourer | - | - | - | - | - | -  | - | 27,000 |
| 20. | Salin Sohkhlet     | -  | 04 | 04 | 3 | 1 | 4 | Farmer   | - | - | - | - | - | 01 | - | 26,000 |
| 21. | Oner Byrnia        | 01 | 01 | 02 | - | - | - | Labourer | - | - | - | 1 | - | 01 | - | 28,000 |
| 22. | Loster Sohkhlet    | 05 | 03 | 08 | - | - | - | Labourer | - | - | - | 1 | - | 01 | - | 28,000 |
| 23. | Dornila Thabah     | 03 | 03 | 06 | 2 | 4 | 6 | Labourer | - | - | - | - | - | 01 | - | 28,000 |
| 24. | Batskhem Sawian    | 03 | 03 | 06 | - | - | - | Labourer | - | - | - | 1 | - | 01 | - | 26,000 |
| 25. | Patsi Pde          | 03 | 03 | 06 | - | - | - | Labourer | - | - | - | - | - | 01 | - | 25,000 |
| 26. | Nansi Sawian       | 01 | 01 | 02 | 2 | 2 | 4 | Farmer   | - | - | - | - | - | 01 | - | 15,000 |
| 27. | Arphuson Sawian    | 02 | 03 | 05 | - | - | - | Farmer   | - | - | - | - | - | 01 | - | 14,000 |
| 28. | Piia Lyngdoh       | 02 | 02 | 04 | - | - | - | Labourer | - | - | - | 1 | - | 01 | - | 28,000 |
| 29. | Phas Lyngdoh       | 02 | 01 | 03 | - | - | - | Labourer | - | - | - | - | - | 01 | - | 20,000 |
| 30. | Estomel Phanrang   | 02 | 03 | 05 | - | - | - | Labourer | - | - | - | - | - | 01 | - | 28,000 |
| 31. | Bletly Sohkhlet    | 03 | 05 | 08 | 4 | 4 | 8 | Farmer   | - | - | - | - | - | 01 | - | 25,000 |
| 32. | Redstar Syiemlieh  | 05 | 02 | 07 | 1 | 6 | 7 | Labourer | - | - | - | - | - | 01 | - | 28,000 |
| 33. | Olga Khyllep       | 01 | 03 | 04 | - | - | - | Labourer | - | - | - | 1 | - | 01 | - | 20,000 |
| 34. | Phran Khyllep      | 02 | 03 | 05 | - | - | - | Labourer | - | - | - | - | - | 01 | - | 28,000 |
| 35. | Esto Sawian        | 02 | -  | 02 | - | - | - | Labourer | - | - | - | - | - | 01 | - | 26,000 |
| 36. | Refill Sawian      | 02 | 01 | 03 | - | - | - | Labourer | - | - | - | - | - | 01 | - | 20,000 |
| 37. | Whiterose Sohkhlet | 04 | 02 | 06 | - | - | - | Labourer | - | - | - | 1 | - | 01 | - | 20,000 |
| 38. | Ambrus Wansai      | 02 | 03 | 05 | - | - | - | Labourer | - | - | - | 1 | - | 01 | - | 22,000 |
| 39. | Kyrmien Wahlang    | 02 | 02 | 04 | - | - | - | Labourer | - | - | - | - | - | 01 | - | 25,000 |
| 40. | Pis Majaw          | 02 | 02 | 04 | - | - | - | Labourer | - | - | - | - | - | 01 | - | 20,000 |
| 41. | Living Majaw       | 03 | 03 | 06 | - | - | - | Labourer | - | - | 1 | - | - | 01 | - | 15,000 |
| 42. | Moris Majaw        | 02 | 02 | 04 | - | - | - | Farmer   | - | - | - | 1 | - | 01 | - | 18,000 |
| 43. | Donkumar Syiemlieh | 01 | 01 | 02 | - | - | - | Farmer   | - | - | - | - | - | 01 | - | 22,000 |
| 44. | Dlor Marbaniang    | 03 | 03 | 06 | - | - | - | Farmer   | - | - | - | 1 | - | 01 | - | 20,000 |
| 45. | Airis Wahlang      | 01 | 02 | 03 | - | - | - | Labourer | - | - | - | 1 | - | 01 | - | 14,000 |
| 46. | Peter Pde          | 02 | 01 | 03 | - | - | - | Labourer | - | - | - | - | - | 01 | - | 28,000 |
| 47. | Siio Pde           | 01 | 04 | 05 | - | - | - | Labourer | - | - | - | 1 | - | 01 | - | 28,000 |

|     |                  |    |    |    |   |   |   |          |   |   |   |   |   |    |   |        |
|-----|------------------|----|----|----|---|---|---|----------|---|---|---|---|---|----|---|--------|
| 48. | Ailin Lyngdoh    | 01 | 02 | 03 | - | - | - | Labourer | - | 1 | - | 1 | - | 01 | - | 28,000 |
| 49. | Siiio Pde        | 04 | 03 | 07 | - | - | - | Farmer   | - | - | - | 1 | - | 01 | - | 28,000 |
| 50. | Holmida Pde      | 02 | 03 | 05 | - | - | - | Labourer | - | - | - | - | - | 01 | - | 15,000 |
| 51. | Toibon Pde       | 03 | -  | 03 | - | - | - | Labourer | - | - | - | - | - | 01 | - | 25,000 |
| 52. | Lukar Wahlang    | 02 | 02 | 04 | - | - | - | Labourer | - | - | - | 1 | - | 01 | - | 26,000 |
| 53. | Aisi Wahlang     | 02 | 02 | 04 | - | - | - | Labourer | - | - | - | 1 | - | 01 | - | 18,000 |
| 54. | Paskha Chyne     | 03 | -  | 03 | - | - | - | Labourer | - | - | - | 1 | - | 01 | - | 15,000 |
| 55. | Medalin Wahlang  | 04 | 04 | 08 | - | - | - | Labourer | - | - | - | 1 | - | 01 | - | 22,000 |
| 56. | Sixtus Wahlang   | 01 | 03 | 04 | - | - | - | Labourer | - | - | - | 1 | - | 01 | - | 25,000 |
| 57. | Risuk Wahlang    | 01 | 04 | 05 | 2 | 3 | 5 | Labourer | - | - | - | - | - | 01 | - | 20,000 |
| 58. | Josep Chyne      | 01 | 02 | 03 | - | - | - | Labourer | - | - | - | 1 | - | 01 | - | 14,000 |
| 59. | Hidron Chyne     | 01 | 04 | 05 | 2 | 3 | 5 | Labourer | - | - | - | 1 | - | 01 | - | 28,000 |
| 60. | Shortila Sun     | 01 | 04 | 05 | 1 | 4 | 5 | Labourer | - | - | - | - | - | 01 | - | 20,000 |
| 61. | Toni Sawian      | 01 | 01 | 02 | - | - | - | Labourer | - | - | - | - | - | 01 | - | 25,000 |
| 62. | Merian           | 02 | 03 | 05 | 2 | 3 | 5 | Labourer | - | - | - | 1 | - | 01 | - | 22,000 |
| 63. | Shor Sohkhlet    | 04 | 02 | 06 | 1 | 5 | 6 | Labourer | - | - | - | 1 | - | 01 | - | 20,000 |
| 64. | Shining Sohkhlet | 03 | 03 | 06 | - | - | - | Labourer | - | - | - | 1 | - | 01 | - | 24,000 |
| 65. | Ebok Dohling     | 02 | 02 | 04 | - | - | - | Labourer | - | - | - | - | - | 01 | - | 20,000 |
| 66. | Bistina Majaw    | 02 | 04 | 06 | - | - | - | Farmer   | - | - | - | 1 | - | 01 | - | 22,000 |
| 67. | Bisto Phanrang   | 01 | -  | 01 | - | - | - | Labourer | - | - | - | - | - | 01 | - | 28,000 |
| 68. | Kwin Majaw       | 01 | 03 | 04 | - | - | - | Labourer | - | - | - | - | - | 01 | - | 17,000 |
| 69. | Jelbina Wansai   | 05 | 04 | 09 | - | - | - | Labourer | - | - | - | 1 | - | 01 | - | 24,000 |
| 70. | Kener Byrnia     | 03 | 04 | 07 | 2 | 5 | 7 | Labourer | - | - | - | - | - | 01 | - | 27,000 |
| 71. | Airinus Kharपुरi | 02 | 04 | 06 | 3 | 3 | 6 | Farmer   | - | - | - | - | - | 01 | - | 22,000 |
| 72. | Andrial Wansai   | 02 | 02 | 04 | 1 | 3 | 4 | Labourer | - | - | - | 1 | - | 01 | - | 26,000 |
| 73. | Judit Shati      | 01 | 01 | 02 | - | - | - | Labourer | - | - | - | - | - | 01 | - | 23,000 |
| 74. | Edom Chyne       | 03 | 01 | 04 | 1 | 3 | 4 | Labourer | - | - | - | - | - | 01 | - | 16,000 |
| 75. | Lashembor Pde    | 03 | 01 | 04 | - | - | - | Labourer | - | - | - | 1 | - | 01 | - | 20,000 |
| 76. | Emordian Muiong  | 02 | 01 | 03 | - | - | - | Labourer | - | - | - | - | - | 01 | - | 20,000 |
| 77. | Wolning Sohkhlet | 02 | 02 | 04 | - | - | - | Labourer | - | - | - | - | - | 01 | - | 15,000 |



|      |                      |    |    |    |   |   |   |          |   |   |   |   |   |    |   |        |
|------|----------------------|----|----|----|---|---|---|----------|---|---|---|---|---|----|---|--------|
| 78.  | Biio Wansai          | 01 | 02 | 03 | - | - | - | Labourer | - | - | - | - | - | 01 | - | 28,000 |
| 79.  | Daplin Kharkongor    | 02 | 04 | 06 | - | - | - | Labourer | - | - | - | 1 | - | 01 | - | 25,000 |
| 80.  | Disbih Sawian        | 01 | 02 | 03 | - | - | - | Labourer | - | - | - | - | - | 01 | - | 28,000 |
| 81.  | Stadly Sohkhlet      | 03 | 03 | 06 | 1 | 5 | 6 | Labourer | - | - | - | 1 | - | 01 | - | 30,000 |
| 82.  | Hehdalin Sohkhlet    | 05 | 04 | 09 | 4 | 5 | 9 | Farmer   | - | - | - | - | - | 01 | - | 22,000 |
| 83.  | Daphira Sohkhlet     | 01 | 02 | 03 | - | - | - | Labourer | - | - | - | - | - | 01 | - | 28,000 |
| 84.  | Winter Phanrang      | 02 | 02 | 04 | 2 | 2 | 5 | Farmer   | - | - | - | - | - | 01 | - | 15,000 |
| 85.  | Presbila Wanphai     | 04 | 02 | 06 | - | - | - | Labourer | - | - | - | - | - | 01 | - | 28,000 |
| 86.  | Sianti Khyllep       | 03 | 03 | 06 | 3 | 3 | 6 | Farmer   | - | - | - | - | - | 01 | - | 18,000 |
| 87.  | Kletus majaw         | 04 | 03 | 07 | 2 | 5 | 7 | Labourer | - | - | - | - | - | 01 | - | 19,000 |
| 88.  | Mon Kharpuri         | 01 | 01 | 02 | - | - | - | Labourer | - | - | - | - | - | -  | - | 28,000 |
| 89.  | Rewsea Thabah        | 03 | 03 | 06 | - | - | - | Labourer | - | - | - | 1 | - | 01 | - | 20,000 |
| 90.  | Phertila Sohkhlet    | 04 | 03 | 07 | 1 | 6 | 7 | Farmer   | - | - | - | - | - | 01 | - | 20,000 |
| 91.  | Iun Nongbri          | 03 | 03 | 06 | - | - | - | Labourer | - | - | - | - | - | 01 | - | 22,000 |
| 92.  | Bren Khyllep         | 01 | 03 | 04 | - | - | - | Labourer | - | - | - | 1 | - | 01 | - | 23,000 |
| 93.  | Phul Khyllep         | 04 | 02 | 06 | - | - | - | Labourer | - | - | - | 1 | - | 01 | - | 27,000 |
| 94.  | Benjamin Khyllep     | 01 | -  | 01 | - | - | - | Labourer | - | - | - | - | - | -  | - | 25,000 |
| 95.  | Rus Khyllep          | 03 | 02 | 05 | - | - | - | Labourer | - | - | - | 1 | - | 01 | - | 20,000 |
| 96.  | Debit Dohling        | 03 | 03 | 06 | - | - | - | Labourer | - | - | - | - | - | 01 | - | 28,000 |
| 97.  | Silvery Sohkhlet     | 04 | 03 | 07 | 2 | 5 | 7 | Farmer   | - | - | - | - | - | 01 | - | 25,000 |
| 98.  | Dhon Majaw           | 01 | -  | 01 | - | - | - | Labourer | - | - | - | - | - | 01 | - | 22,000 |
| 99.  | Shngain Sun          | 02 | 01 | 03 | 1 | 2 | 3 | Labourer | - | - | - | - | - | 01 | - | 25,000 |
| 100. | Bandalin Majaw       | 01 | 02 | 03 | 2 | 1 | 3 | Farmer   | - | - | - | - | - | 01 | - | 23,000 |
| 101. | Aisilda Khyllep      | 01 | 02 | 03 | - | - | - | Labourer | - | - | - | - | - | 01 | - | 20,000 |
| 102. | Pis Syiemlieh        | 01 | 02 | 03 | - | - | - | Labourer | - | - | - | - | - | 01 | - | 15,000 |
| 103. | Shanti Khyllep       | 01 | 01 | 02 | - | - | - | Labourer | - | - | - | 1 | - | 01 | - | 18,000 |
| 104. | Biten Mawa           | 03 | 02 | 05 | - | - | - | Labourer | - | - | - | - | - | 01 | - | 15,000 |
| 105. | Dapbianglin Sohkhlet | 04 | 04 | 08 | 1 | 7 | 8 | Farmer   | - | - | - | 1 | - | -  | - | 20,000 |
| 106. | Sted Syiemlieh       | 03 | 03 | 06 | 2 | 4 | 6 | Labourer | - | - | - | - | - | 01 | - | 28,000 |
| 107. | Phran Dohling        | 02 | 03 | 05 | - | - | - | Labourer | - | - | - | - | - | 01 | - | 20,000 |

|      |                    |    |    |    |   |   |    |          |   |   |   |   |   |    |   |        |
|------|--------------------|----|----|----|---|---|----|----------|---|---|---|---|---|----|---|--------|
| 108. | Jesanta Dohling    | 01 | 04 | 05 | 2 | 3 | 5  | Labourer | - | - | - | - | - | -  | - | 25,000 |
| 109. | Beronica Sohkhlet  | 03 | 03 | 06 | - | - | -  | Labourer | - | - | - | - | - | 01 | - | 20,000 |
| 110. | Arbinus Byrnia     | 03 | 03 | 06 | - | - | -  | Labourer | - | - | - | 1 | - | 01 | - | 22,000 |
| 111. | Bok Shati          | 03 | 05 | 08 | 2 | 6 | 8  | Labourer | - | - | - | 1 | - | 01 | - | 15,000 |
| 112. | Marybel Shati      | 03 | 03 | 06 | 1 | 5 | 6  | Labourer | - | - | - | 1 | - | -  | - | 15,000 |
| 113. | Tino Wahlang       | 02 | 02 | 04 | 1 | 3 | 4  | Labourer | - | - | - | - | - | -  | - | 22,000 |
| 114. | Jan Pde            | 05 | 04 | 09 | 3 | 6 | 9  | Farmer   | - | - | - | 1 | - | 01 | - | 22,000 |
| 115. | Roslin Byrnia      | 01 | -  | 01 | - | - | -  | Labourer | - | - | - | - | - | -  | - | 28,000 |
| 116. | Marin Sohkhlet     | 04 | 03 | 07 | 2 | 5 | 7  | Farmer   | - | - | - | 1 | - | 01 | - | 20,000 |
| 117. | Bror Syiemlieh     | 03 | 03 | 06 | 1 | 5 | 6  | Farmer   | - | - | - | - | - | 01 | - | 25,000 |
| 118. | Ribarton Sohkhlet  | 03 | 02 | 05 | - | - | -  | Labourer | - | - | - | - | - | 01 | - | 23,000 |
| 119. | Tis Mawa           | 05 | 03 | 08 | 1 | 7 | 8  | Labourer | - | - | - | - | - | 01 | - | 15,000 |
| 120. | Ridalin Wahlang    | 02 | 01 | 03 | - | - | -  | Labourer | - | - | - | - | - | -  | - | 20,000 |
| 121. | Beritus Wahlang    | 01 | 01 | 02 | - | - | -  | Labourer | - | - | - | - | - | 01 | - | 18,000 |
| 122. | Kynpham Majaw      | 02 | 05 | 07 | - | - | -  | Labourer | - | - | - | 1 | - | 01 | - | 15,000 |
| 123. | Brijensing Nongbri | 03 | -  | 03 | - | - | -  | Labourer | - | - | - | - | - | 01 | - | 20,000 |
| 124. | Lucky Sohkhlet     | 07 | 03 | 10 | 2 | 8 | 10 | Labourer | - | - | - | - | - | 01 | - | 19,000 |
| 125. | Basimon Wahlang    | 02 | 02 | 04 | 1 | 3 | 4  | Farmer   | - | - | - | 1 | - | 01 | - | 22,000 |
| 126. | Mara Wanphai       | 01 | 02 | 03 | - | - | -  | Labourer | - | - | - | - | - | 01 | - | 26,000 |
| 127. | Saralin Wanphai    | 02 | 04 | 06 | - | - | -  | Labourer | - | - | - | - | - | 01 | - | 24,000 |
| 128. | Niltla Sohkhlet    | 02 | 04 | 06 | 2 | 4 | 6  | Labourer | - | - | - | 1 | - | 01 | - | 20,000 |
| 129. | Barihun Sohkhlet   | 02 | 04 | 06 | - | - | -  | Labourer | - | - | - | - | - | 01 | - | 18,000 |
| 130. | Betsi Sohkhlet     | 03 | 04 | 07 | 2 | 5 | 7  | Labourer | - | - | - | 1 | - | 01 | - | 25,000 |
| 131. | Springda Sohkhlet  | 01 | 05 | 06 | 3 | 3 | 6  | Labourer | - | - | - | - | - | 01 | - | 14,000 |
| 132. | Mem Memkon         | 02 | 02 | 04 | - | - | -  | Labourer | - | - | - | - | - | 01 | - | 15,000 |
| 133. | Boy Chyne          | 03 | 03 | 06 | - | - | -  | Labourer | - | - | - | 1 | - | 01 | - | 28,000 |
| 134. | Kleriia Chyne      | 01 | 01 | 02 | 1 | 1 | 2  | Farmer   | - | - | - | 1 | - | 01 | - | 23,000 |
| 135. | Trena Pde          | 01 | 03 | 04 | - | - | -  | Labourer | - | - | - | - | - | 01 | - | 26,000 |
| 136. | Wanaihun Sawian    | 04 | 03 | 07 | - | - | -  | Labourer | - | - | - | 1 | - | -  | - | 24,000 |
| 137. | Rikardus Sohkhlet  | 02 | 02 | 04 | - | - | -  | Labourer | - | - | - | - | - | 01 | - | 20,000 |

|      |                     |            |            |            |   |   |   |          |   |   |   |   |   |    |   |        |
|------|---------------------|------------|------------|------------|---|---|---|----------|---|---|---|---|---|----|---|--------|
| 138. | Lam Muiong          | 01         | -          | 01         | - | - | - | Labourer | - | - | - | - | - | -  | - | 25,000 |
| 139. | Patrik Phanrang     | 01         | -          | 01         | - | - | - | Labourer | - | - | - | - | - | 01 | - | 18,000 |
| 140. | Lenar Wanphai       | 01         | -          | 01         | - | - | - | Labourer | - | - | - | - | - | -  | - | 20,000 |
| 141. | Kyntiew Sohkhlet    | 03         | 02         | 05         | 1 | 4 | 5 | Labourer | - | - | - | - | - | 01 | - | 13,000 |
| 142. | Marbel Sawian       | 02         | 02         | 04         | 1 | 3 | 4 | Labourer | - | - | - | - | - | 01 | - | 26,000 |
| 143. | Tarsen Mawkon       | 02         | 01         | 03         | 1 | 2 | 3 | Labourer | - | - | - | 1 | 1 | 01 | - | 15,000 |
| 144. | Nightstar Syiemlieh | 03         | 01         | 04         | - | 3 | 3 | Labourer | - | - | - | - | - | 01 | - | 28,000 |
|      | <b>TOTAL</b>        | <b>340</b> | <b>341</b> | <b>681</b> |   |   |   |          |   |   |   |   |   |    |   |        |

**Population: Male :340**

**Female: 341**

**Total:681**

**B.P.L = 122**

**SOCIO ECONOMIC DATA OF NONGLA VILLAGE UNDER UPPER THARIA WATERSHED**

| Sl.No | Name Of Them Head of Family | Population |        |       | Literacy |            |       | Occupation   | Agriculture Area |      | Livestock |     |      |         |       | Annual Income |
|-------|-----------------------------|------------|--------|-------|----------|------------|-------|--------------|------------------|------|-----------|-----|------|---------|-------|---------------|
|       |                             | Male       | Female | Total | Literate | Illiterate | Total |              | Settled          | Jhum | Cow       | Pig | Goat | Poultry | Horse |               |
| 1.    | Shri. Director Manar        | 05         | 02     | 07    | -        | -          | -     | Farmer       | -                | -    | -         | 1   | -    | 10      | -     | 30,000        |
| 2.    | Smti. Dwelsibon Majaw       | 02         | 05     | 07    | 1        | 3          | 4     | Labour       | -                | -    | -         | -   | -    | 05      | -     | 28,000        |
| 3.    | Shri. Moses Ksing           | 03         | 04     | 07    | -        | -          | -     | Farmer       | -                | -    | -         | -   | -    | 10      | -     | 25,000        |
| 4.    | Smti. Wanhun Tyngsong       | 02         | 03     | 05    | -        | -          | -     | Farmer       | -                | -    | -         | 1   | -    | 10      | -     | 20,000        |
| 5.    | Smti. Riples Khongphai      | 01         | 04     | 05    | -        | -          | -     | Farmer       | -                | -    | -         | -   | -    | 12      | -     | 15,000        |
| 6.    | Smti. Moris Tynthai         | 03         | 01     | 04    | -        | -          | -     | Farmer       | -                | -    | -         | 1   | -    | 06      | -     | 19,000        |
| 7.    | Shri. Kyrshan Ksing         | 03         | 02     | 05    | -        | -          | -     | Farmer       | -                | -    | -         | 2   | -    | 07      | -     | 23,000        |
| 8.    | Shri. Lukas Ksing           | 03         | 06     | 09    | -        | -          | -     | Daily earner | -                | Jhum | -         | 1   | -    | 08      | -     | 28,000        |
| 9.    | Shri. Mohes Shabong         | 02         | 03     | 05    | -        | -          | -     | Daily earner | -                | -    | -         | 1   | -    | 10      | -     | 20,000        |
| 10.   | Smti. Stik Kharmawpat       | 01         | 01     | 02    | -        | -          | -     | Daily earner | -                | -    | -         | 2   | -    | 07      | -     | 19,000        |
| 11.   | Shri. Hedrick Umdor         | 05         | 04     | 09    | 1        | -          | 1     | Daily earner | -                | -    | -         | 3   | -    | 06      | -     | 20,000        |
| 12.   | Smti. Aitibet Ksing         | 05         | 04     | 09    | -        | -          | -     | Daily earner | -                | -    | -         | 1   | -    | 08      | -     | 19,000        |
| 13.   | Smti. Hohek Khongkhnian     | 04         | 04     | 08    | -        | -          | -     | Daily earner | -                | -    | -         | 1   | -    | 05      | -     | 25,000        |

|     |                          |           |           |            |   |   |   |              |   |   |   |   |   |    |   |        |
|-----|--------------------------|-----------|-----------|------------|---|---|---|--------------|---|---|---|---|---|----|---|--------|
| 14. | Smti. Bibian Massar      | 04        | 05        | 09         | - | - | - | Daily earner | - | - | - | 1 | - | 06 | - | 18,000 |
| 15. | Smti. Permit Kharmawpat  | 03        | 04        | 07         | - | - | - | Daily earner | - | - | - | 2 | - | 08 | - | 18,000 |
| 16. | Smti. Khemtimon Ksing    | 03        | 03        | 06         | 1 | 1 | 2 | Daily earner | - | - | - | 1 | - | 07 | - | 20,000 |
| 17. | Smti. Dorina Massar      | 04        | 05        | 09         | - | - | - | Daily earner | - | - | - | 3 | - | 05 | - | 28,000 |
| 18. | Shri. Binton Masar       | 01        | 01        | 02         | - | - | - | Daily earner | - | - | - | 2 | - | 06 | - | 22,000 |
|     | <b>Total</b>             | <b>54</b> | <b>61</b> | <b>115</b> |   |   |   |              |   |   |   |   |   |    |   |        |
| 19. | Smti. Dlissibon Ryngnga  | 05        | 03        | 08         | - | - | - | Farmer       | - | - | - | 1 | - | 15 | - | 24,000 |
| 20. | Smti. Sidora Massar      | 05        | 03        | 08         | - | - | - | Farmer       | - | - | - | 2 | - | 06 | - | 20,000 |
| 21. | Smti. Bilinda Massar     | 03        | 03        | 06         | - | - | - | Farmer       | - | - | - | 3 | - | 10 | - | 21,000 |
| 22. | Smti. Kwessibon Massar   | -         | 02        | 02         | - | 1 | 1 | Farmer       | - | - | - | - | - | 05 | - | 18,000 |
| 23. | Smti. Pura Majaw         | 01        | 03        | 04         | - | - | - | Farmer       | - | - | - | - | - | 08 | - | 14,000 |
| 24. | Smti. Tehmon Khongkhnian | 04        | 01        | 05         | - | - | - | Farmer       | - | - | - | 1 | - | 07 | - | 16,000 |
| 25. | Smti. Sambat Khongkhnian | 02        | 04        | 06         | 1 | 1 | 2 | Farmer       | - | - | - | 1 | - | 10 | - | 28,000 |
| 26. | Smti. Buhtilut Ksing     | 04        | 01        | 05         | - | - | - | Farmer       | - | - | - | - | - | 12 | - | 25,000 |
| 27. | Smti. Balty Massar       | 02        | 01        | 03         | - | - | - | Farmer       | - | - | - | 1 | - | 15 | - | 24,000 |
| 28. | Smti. Salinda Tyngsong   | 04        | 04        | 08         | - | - | - | Farmer       | - | - | - | 1 | - | 05 | - | 21,000 |
| 29. | Smti. Betsaida Tham      | 03        | 02        | 05         | - | - | - | Farmer       | - | - | - | - | - | 12 | - | 18,000 |
| 30. | Smti. Klirda Tham        | 01        | 02        | 03         | - | - | - | Farmer       | - | - | - | - | - | 13 | - | 21,000 |
| 31. | Smti. Kroslanda Tham     | 01        | 03        | 04         | - | - | - | Farmer       | - | - | - | 1 | - | 15 | - | 22,000 |

|     |                          |           |           |           |   |   |   |              |   |   |   |   |   |    |   |        |
|-----|--------------------------|-----------|-----------|-----------|---|---|---|--------------|---|---|---|---|---|----|---|--------|
| 32. | Smti. Litilda Ryngnga    | 01        | 03        | 04        | 1 | - | 1 | Farmer       | - | - | - | 2 | - | 10 | - | 26,000 |
| 33. | Smti. Kresent Ryngnga    | 03        | 03        | 06        | - | - | - | Daily earner | - | - | - | 2 | - | 14 | - | 28,000 |
| 34. | Shri. Nikodimos Ksing    | 01        | 04        | 05        | - | - | - | Daily earner | - | - | - | 1 | - | 08 | - | 21,000 |
| 35. | Shri. Pynneh Khongkhnian | 01        | -         | 01        | - | - | - | Daily earner | - | - | - | - | - | 10 | - | 22,000 |
| 36. | Shri. Roken Tyngsong     | 02        | 02        | 04        | - | - | - | Daily earner | - | - | - | 1 | - | 07 | - | 25,000 |
| 37. | Smti. Wandap Massar      | 03        | 01        | 04        | - | - | - | Daily earner | - | - | - | 1 | - | 12 | - | 22,000 |
| 38. | Shri. Jopthiaw Ksing     | 01        | -         | 01        | - | - | - | Daily earner | - | - | - | - | - | 10 | - | 22,000 |
| 39. | Smti. Bolda Tynthai      | 02        | 01        | 03        | - | - | - | Farmer       | - | - | - | - | - | 08 | - | 21,000 |
| 40. | Shri. Briwel Ryngnga     | 02        | 01        | 03        | - | - | - | Farmer       | - | - | - | - | - | 08 | - | 21,000 |
|     | <b>Total</b>             | <b>51</b> | <b>47</b> | <b>98</b> |   |   |   |              |   |   |   |   |   |    |   |        |
| 41. | Thidlang Tynthai         | 01        | 03        | 04        | - | - | - | Daily earner | - | - | - | 1 | - | 10 | - | 19,000 |
| 42. | Merianlin Kharmawpat     | 01        | 01        | 02        | - | - | - | Farmer       | - | - | - | 2 | - | 10 | - | 23,000 |
| 43. | Hamlet Ryngnga           | 01        | -         | 01        | - | - | - |              | - | - | - | - | - | 05 | - | 22,000 |
| 44. | Wanda Manar              | 01        | 02        | 03        | - | - | - | Farmer       | - | - | - | 1 | - | 10 |   | 20,000 |
| 45. | Martidora Ksing          | 02        | 05        | 07        | 2 | 4 | 6 | Farmer       | - | - | - | 3 | - | 12 | - | 21,000 |
| 46. | Thuesibon Majaw          | 01        | 03        | 04        | 1 | 2 | 3 | Farmer       | - | - | - | 2 | - | 10 | - | 25,000 |
|     | <b>Total</b>             | <b>07</b> | <b>14</b> | <b>21</b> |   |   |   |              |   |   |   |   |   |    |   |        |

**POPULATION :-**

**MALE = 112**

**-**

**FEMALE = 122**

**TOTAL = 234**

**BPL:16**

**SOCIO ECONOMIC DATA OF NONGTHYMMAI VILLAGE UNDER WAH UMSAI**

| Sl.No | Name Of Them Head of Family | Population |        |       | Literacy |            |       | Occupation | Agriculture Area |      | Livestock |     |      |         |       | Annual Income |
|-------|-----------------------------|------------|--------|-------|----------|------------|-------|------------|------------------|------|-----------|-----|------|---------|-------|---------------|
|       |                             | Male       | Female | Total | Literate | Illiterate | Total |            | Settled          | Jhum | Cow       | Pig | Goat | Poultry | Horse |               |
| 1.    | Drak Syiemlieh              | 01         | 04     | 05    | -        | -          | -     | Labourer   | -                | -    | -         | 1   | -    | 01      | -     | 20,000        |
| 2.    | Denis Mawa                  | 02         | 03     | 05    | 1        | 4          | 5     | Labourer   | -                | -    | -         | 1   | -    | 01      | -     | 26,000        |
| 3.    | Dian Syiemlieh              | 03         | 02     | 05    | 3        | 2          | 5     | Labourer   | -                | -    | -         | 1   | -    | 01      | -     | 24,000        |
| 4.    | Philis Mawa                 | 02         | 02     | 04    | -        | -          | -     | Labourer   | -                | -    | -         | 1   | -    | 01      | -     | 22,000        |
| 5.    | Ammalis Mawa                | 02         | 03     | 05    | -        | -          | -     | Labourer   | -                | -    | -         | 1   | -    | 01      | -     | 20,000        |
| 6.    | Hidral Chyne                | 02         | 02     | 04    | 1        | 3          | 4     | Labourer   | -                | -    | -         | 1   | -    | 01      | -     | 18,000        |
| 7.    | Mishel Pde                  | 03         | 01     | 04    | -        | -          | -     | Labourer   | -                | -    | -         | 1   | -    | 01      | -     | 23,000        |
| 8.    | Peter Syiemlieh             | 02         | 02     | 04    | 1        | 3          | 4     | Labourer   | -                | -    | -         | 1   | -    | 01      | -     | 28,000        |
| 9.    | Rishot Syiemlieh            | 04         | 03     | 07    | 4        | 3          | 7     | Labourer   | -                | -    | -         | 1   | -    | 01      | -     | 16,000        |
| 10.   | Molin Syiemlieh             | 02         | 02     | 04    | -        | -          | -     | Labourer   | -                | -    | -         | 1   | -    | 01      | -     | 16,000        |
| 11.   | Sisilia Syiemlieh           | 03         | 01     | 04    | -        | -          | -     | Labourer   | -                | -    | -         | 1   | -    | 01      | -     | 18,000        |

|     |                    |           |           |           |   |   |   |              |   |   |   |   |   |    |   |            |
|-----|--------------------|-----------|-----------|-----------|---|---|---|--------------|---|---|---|---|---|----|---|------------|
|     |                    |           |           |           |   |   |   | r            |   |   |   |   |   |    |   | 0          |
| 12. | Aipilmon Stiemlieh | 03        | 02        | 05        | 2 | 3 | 5 | Laboure<br>r | - | - | - | 1 | - | 01 | - | 25,00<br>0 |
| 13. | Nolas Syiemlieh    | 02        | 02        | 04        | - | - | - | Laboure<br>r | - | - | - | 1 | - | 01 | - | 22,00<br>0 |
| 14. | Paul Syiemlieh     | 02        | 03        | 05        | - | - | - | Laboure<br>r | - | - | - | 1 | - | 01 | - | 21,00<br>0 |
| 15. | Ti Syiemlieh       | 03        | 01        | 04        | - | - | - | Laboure<br>r | - | - | - | 1 | - | 01 | - | 20,00<br>0 |
|     | <b>Total</b>       | <b>36</b> | <b>33</b> | <b>69</b> |   |   |   |              |   |   |   |   |   |    |   |            |

**B.P.L = 11**

**Male : 36      Female : 33 Total: 69**



**SOCIO ECONOMIC DATA OF MAWSHAMOK VILLAGE UNDER WAH UMSAI**

| Sl.No | Name Of Them Head of Family | Population |        |       | Literacy |            |       | Occupation | Agriculture Area |      | Livestock |     |      |         |       | Annual Income |
|-------|-----------------------------|------------|--------|-------|----------|------------|-------|------------|------------------|------|-----------|-----|------|---------|-------|---------------|
|       |                             | Male       | Female | Total | Literate | Illiterate | Total |            | Settled          | Jhum | Cow       | Pig | Goat | Poultry | Horse |               |
| 1.    | Pisher Pde                  | 01         | -      | 01    | -        | -          | -     | Farmer     | -                | -    | -         | 1   | -    | 01      | -     | 26,000        |
| 2.    | Siiur Majaw                 | 01         | -      | 01    | -        | -          | -     | Farmer     | -                | -    | -         | -   | -    | 01      | -     | 25,000        |
| 3.    | Helson Majaw                | 01         | -      | 01    | -        | -          | -     | Farmer     | -                | -    | -         | -   | -    | 01      | -     | 22,000        |
| 4.    | Edwi Wahlang                | 03         | 01     | 04    | -        | -          | -     | Farmer     | -                | -    | -         | 1   | -    | 01      | -     | 23,000        |
| 5.    | Wilfred Mawa                | 05         | 03     | 08    | -        | -          | -     | Farmer     | -                | -    | -         | -   | -    | 01      | -     | 26,000        |
| 6.    | Lidia                       | 02         | 04     | 06    | 1        | 5          | 6     | Farmer     | -                | -    | -         | 1   | -    | 01      | -     | 25,000        |
| 7.    | Tassius Sohkhlet            | 01         | 05     | 06    | 1        | 5          | 6     | Farmer     | -                | -    | -         | 1   | -    | 01      | -     | 28,000        |
| 8.    | Milia Byrnia                | 01         | 03     | 04    | 1        | 3          | 4     | Farmer     | -                | -    | -         | 1   | -    | 01      | -     | 28,000        |
| 9.    | Kladinus Byrnia             | 02         | 02     | 04    | -        | -          | -     | Farmer     | -                | -    | -         | 1   | -    | 01      | -     | 25,000        |
| 10.   | Krim Wahlang                | 01         | 01     | 02    | -        | -          | -     | Farmer     | -                | -    | -         | -   | -    | -       | -     | 20,000        |
| 11.   | Ren Byrnia                  | 01         | 02     | 03    | 1        | 2          | 3     | Labourer   | -                | -    | -         | -   | -    | 01      | -     | 22,000        |
| 12.   | Ainer Byrnia                | -          | 01     | 01    | -        | -          | -     | Labourer   | -                | -    | -         | 1   | -    | 01      | -     | 26,000        |
| 13.   | Trida Byrnia                | 03         | 02     | 05    | 2        | 3          | 5     | Farmer     | -                | -    | -         | 1   | -    | 01      | -     | 28,000        |
| 14.   | Hordar Sawian               | 01         | 02     | 03    | 1        | 2          | 3     | Farmer     | -                | -    | -         | -   | -    | -       | -     | 15,000        |
| 15.   | Lussiar Majaw               | 04         | 03     | 07    | 1        | 6          | 7     | Farmer     | -                | -    | -         | 1   | -    | 01      | -     | 19,000        |
| 16.   | Jer Byrnia                  | 01         | -      | 01    | -        | -          | -     | Farmer     | -                | -    | -         | -   | -    | 01      | -     | 2,800         |
| 17.   | Kmen Wanshong               | 01         | 02     | 03    | 1        | 2          | 3     | Farmer     | -                | -    | -         | -   | -    | 01      | -     | 25,000        |

|     |                   |    |    |    |   |   |   |          |   |   |   |   |   |    |   |        |
|-----|-------------------|----|----|----|---|---|---|----------|---|---|---|---|---|----|---|--------|
| 18. | Shon Wanshong     | 01 | 02 | 03 | - | - | - | Farmer   | - | - | - | - | - | 01 | - | 22,000 |
| 19. | Linda Lubri       | 02 | 04 | 06 | - | - | - | Farmer   | - | - | - | 1 | - | 01 | - | 25,000 |
| 20. | Newkwin Mawa      | 04 | 03 | 07 | - | - | - | Farmer   | - | - | - | 1 | - | 01 | - | 22,000 |
| 21. | Oskwin Mawa       | 04 | 04 | 08 | - | - | - | Farmer   | - | - | - | 1 | - | 01 | - | 20,000 |
| 22. | Bigtoria Wanwar   | 03 | 04 | 07 | 1 | 6 | 7 | Farmer   | - | - | - | - | - | 01 | - | 25,000 |
| 23. | Sanjum Chyne      | 03 | 01 | 04 | 1 | 3 | 4 | Farmer   | - | - | - | 1 | - | 01 | - | 28,000 |
| 24. | Teibor Thabah     | 02 | 01 | 03 | 1 | 2 | 3 | Farmer   | - | - | - | 1 | - | 01 | - | 28,000 |
| 25. | Wim Mawa          | 02 | 01 | 03 | - | - | - | Farmer   | - | - | - | 1 | - | 01 | - | 23,000 |
| 26. | Silda Wahlang     | 04 | 04 | 08 | - | - | - | Farmer   | - | - | - | 1 | - | 01 | - | 26,000 |
| 27. | Bring Majaw       | 05 | 04 | 09 | 2 | 7 | 9 | Farmer   | - | - | 1 | 1 | - | 01 | - | 19,000 |
| 28. | Eldi Majaw        | 01 | 01 | 02 | - | - | - | Farmer   | - | - | - | - | - | 01 | - | 20,000 |
| 29. | Aitica Majaw      | 02 | 02 | 04 | 2 | 2 | 4 | Farmer   | - | - | 1 | 1 | - | 01 | - | 23,000 |
| 30. | Lassing Majaw     | 04 | 05 | 09 | 1 | 8 | 9 | Farmer   | - | - | - | 1 | - | 01 | - | 25,000 |
| 31. | Snodrop Syiemlieh | 01 | 03 | 04 | 1 | 3 | 4 | Farmer   | - | - | - | - | - | 01 | - | 14,000 |
| 32. | Lit Syiemlieh     | 03 | 01 | 04 | - | - | - | Farmer   | - | - | - | - | - | 01 | - | 14,000 |
| 33. | Sloda Syiemlieh   | 01 | 03 | 04 | 2 | 2 | 4 | Farmer   | - | - | - | 1 | - | 01 | - | 23,000 |
| 34. | Longlip Syiemlieh | 03 | 02 | 05 | - | - | - | Farmer   | - | - | - | - | - | 01 | - | 28,000 |
| 35. | Sikrin Sohkhlet   | 02 | 03 | 05 | - | - | - | Labourer | - | - | - | 1 | - | 01 | - | 20,000 |
| 36. | Let Sohkhlet      | 02 | 01 | 03 | 1 | 2 | - | Labourer | - | - | - | 1 | - | 01 | - | 25,000 |
| 37. | Hir Majaw         | 03 | 04 | 07 | 1 | 6 | - | Farmer   | - | - | - | 1 | - | 01 | - | 20,000 |
| 38. | Rita Syiemlieh    | 02 | 05 | 07 | 6 | 1 | - | Farmer   | - | - | - | - | - | 01 | - | 26,000 |
| 39. | Driak Syiemlieh   | 01 | 02 | 03 | 1 | 2 | - | Farmer   | - | - | - | - | - | 01 | - | 16,000 |
| 40. | Airinis Lubri     | 01 | 03 | 04 | - | - | - | Farmer   | - | - | - | - | - | 01 | - | 23,000 |

|     |                 |           |            |            |   |   |   |          |   |   |   |   |   |    |   |               |
|-----|-----------------|-----------|------------|------------|---|---|---|----------|---|---|---|---|---|----|---|---------------|
| 41. | Jakop Majaw     | 05        | 05         | 10         | 1 | 9 | - | Farmer   | - | - | - | 1 | - | 01 | - | 25,000        |
| 42. | Romanus Wahlang | 01        | -          | 01         | - | - | - | Farmer   | - | - | - | 1 | - | 01 | - | 17,000        |
| 43. | Evan Mawa       | 03        | 01         | 04         | - | - | - | Labourer | - | - | - | - | - | 01 | - | -             |
|     | <b>Total</b>    | <b>94</b> | <b>100</b> | <b>194</b> |   |   |   |          |   |   |   |   |   |    |   | <b>16,000</b> |

**B.P.L = 31**

**Male: 94**

**Female:100**

**Total:194**

**SOCIO ECONOMIC DATA OF LUMSOHPHIE VILLAGE UNDER WAH UMSAI**

| Sl.No | Name Of Them Head of Family | Population |        |       | Literacy |            |       | Occupation     | Agriculture Area |      | Livestock |     |      |         |       | Annual Income |
|-------|-----------------------------|------------|--------|-------|----------|------------|-------|----------------|------------------|------|-----------|-----|------|---------|-------|---------------|
|       |                             | Male       | Female | Total | Literate | Illiterate | Total |                | Settled          | Jhum | Cow       | Pig | Goat | Poultry | Horse |               |
| 1.    | Plan Syiemlieh              | 03         | 03     | 06    | 3        | 3          | 6     | Daily Labourer | -                | -    | -         | 1   | -    | 01      | -     | 28,000        |
| 2.    | Mik Syiemlieh               | 02         | 02     | 04    | -        | -          | -     | Daily Labourer | -                | -    | -         | -   | -    | 01      | -     | 26,000        |
| 3.    | Densi Syiemlieh             | 01         | 01     | 02    | 2        | -          | 2     | Daily Labourer | -                | -    | -         | -   | -    | 01      | -     | 20,000        |
| 4.    | Wim Sohkhlet                | 03         | 02     | 05    | -        | -          | -     | Daily Labourer | -                | -    | -         | 1   | -    | 01      | -     | 24,000        |
| 5.    | Hilda Syiemlieh             | 02         | 01     | 03    | -        | -          | -     | Daily Labourer | -                | -    | -         | -   | -    | 01      | -     | 19,000        |
| 6.    | Nelson Pde                  | 03         | 03     | 06    | 4        | 2          | 6     | Farmer         | -                | -    | -         | 1   | -    | 01      | -     | 19,000        |
| 7.    | Devid Mon                   | 02         | 02     | 04    | -        | -          | -     | Farmer         | -                | -    | -         | 1   | -    | 01      | -     | 15,000        |
| 8.    | Memri Nongbri               | 01         | 03     | 04    | -        | -          | -     | Farmer         | -                | -    | -         | 1   | -    | 01      | -     | 14,000        |
| 9.    | Leston Pde                  | 04         | 04     | 08    | 4        | 4          | 8     | Farmer         | -                | -    | -         | 1   | -    | 01      | -     | 22,000        |
| 10.   | Kit Syiemlieh               | 01         | 02     | 03    | 1        | 2          | 3     | Farmer         | -                | -    | -         | -   | -    | -       | -     | 24,000        |
| 11.   | Promen Syiemlieh            | 01         | 04     | 05    | 2        | 3          | 5     | Labour         | -                | -    | -         | -   | -    | 01      | -     | 28,000        |

|     |                   |    |    |    |   |   |   |                |   |   |   |   |   |    |   |        |
|-----|-------------------|----|----|----|---|---|---|----------------|---|---|---|---|---|----|---|--------|
|     |                   |    |    |    |   |   |   | er             |   |   |   |   |   |    |   |        |
| 12. | Phror Pde         | 03 | 03 | 06 | - | - | - | Labourer       | - | - | - | 1 | - | 01 | - | 25,000 |
| 13. | Pilas Pde         | 02 | 02 | 04 | 1 | 3 | 4 | Daily Labourer | - | - | - | 1 | - | 01 | - | 23,000 |
| 14. | Blos Marbaniang   | 01 | 01 | 02 | 1 | 1 | 2 | Farmer         | - | - | - | - | - | -  | - | 28,000 |
| 15. | Teibor Marbaniang | 01 | -  | 01 | - | - | - | Farmer         | - | - | - | 1 | - | 01 | - | 25,000 |
| 16. | Baswa Khyllap     | 03 | 03 | 06 | - | - | - | Daily Labourer | - | - | - | - | - | 01 | - | 22,000 |
| 17. | Budsing Bynnud    | 04 | 02 | 06 | 1 | 5 | 6 | Daily labourer |   | - | - | 1 | - | 01 | - | 20,000 |
| 18. | Rihun Pde         | 01 | 01 | 02 | 1 | - | 1 | Farmer         | - | - | - | 1 | - | 01 | - | 18,000 |
| 19. | Baiai Pde         | 02 | 02 | 04 | 1 | 3 | 4 | Farmer         | - | - | - | 1 | - | 01 | - | 27,000 |
| 20. | Heh Wanshong      | 02 | 03 | 05 | 2 | 3 | 5 | Farmer         | - | - | - | 1 | - | 01 | - | 15,000 |
| 21. | Kolom Pde         | 02 | 04 | 06 | - | - | - | Farmer         | - | - | - | 1 | - | 01 | - | 20,000 |

|     |                |           |           |            |   |   |   |        |   |   |   |   |   |    |   |        |
|-----|----------------|-----------|-----------|------------|---|---|---|--------|---|---|---|---|---|----|---|--------|
| 22. | Saron Khylllep | 03        | 03        | 06         | - | - | - | Farmer | - | - | - | 1 | - | 01 | - | 18,000 |
| 23. | Shimti Pde     | 02        | 02        | 04         | - | - | - | Farmer | - | - | - | 1 | - | 01 | - | 24,000 |
|     | <b>Total</b>   | <b>49</b> | <b>53</b> | <b>102</b> |   |   |   |        |   |   |   |   |   |    |   |        |

**B.P.L = 20      Male:49      female: 53      Total: 102**

**SOCIO ECONOMIC DATA OF TYRNGEI VILLAGE UNDER UPPPER THARIA**

| Sl.No | Name Of Them Head of Family | Population |        |       | Literacy |            |       | Occupation   | Agriculture Area |      | Livestock |     |      |         |       | Annual Income |
|-------|-----------------------------|------------|--------|-------|----------|------------|-------|--------------|------------------|------|-----------|-----|------|---------|-------|---------------|
|       |                             | Male       | Female | Total | Literate | Illiterate | Total |              | Settled          | Jhum | Cow       | Pig | Goat | Poultry | Horse |               |
| 1.    | Shri. Jemanwel Nelar        | 3          | 3      | 6     | -        | -          | -     | Daily Earner | -                | -    | -         | 2   | -    | 40      | -     | 24,000        |
| 2.    | Shri. Dlin Syngngai         | 3          | 3      | 6     | -        | -          | -     | Farmer       | -                | -    | -         | 3   | -    | 56      | -     | 26,000        |
| 3.    | Shri. Stephan Khongkhnian   | 1          | 2      | 3     | -        | -          | -     | Farmer       | -                | -    | -         | 2   | -    | 32      | -     | 20,000        |
| 4.    | Shri. Sada Khongthoh        | 3          | 1      | 4     | -        | -          | -     | Farmer       | -                | -    | -         | 3   | -    | 50      | -     | 21,000        |
| 5.    | Shri. Hot Khongshei         | 4          | 1      | 5     | -        | -          | -     | Farmer       | -                | -    | -         | 2   | -    | 24      | -     | 28,000        |
| 6.    | Smti. Ainola Dkhar          | 1          | 3      | 4     | -        | -          | -     | Farmer       | -                | -    | -         | 2   | -    | 16      | -     | 25,000        |
| 7.    | Smti. Brot Khongthoh        | 1          | 3      | 4     | -        | -          | -     | Farmer       | -                | -    | -         | 3   | -    | 50      | -     | 18,000        |
| 8.    | Shri. Pynbiang Majaw        | 4          | 2      | 6     | -        | -          | -     | Farmer       | -                | -    | -         | 4   | -    | 61      | -     | 18,000        |
| 9.    | Shri. Boto Khongthoh        | 5          | 2      | 7     | -        | -          | -     | Farmer       | -                | -    | -         | 4   | -    | 60      | -     | 16,000        |
| 10.   | Shri. Wilson Rynngga        | 3          | 4      | 7     | -        | -          | -     | Farmer       | -                | -    | -         | 2   | -    | 20      | -     | 25,000        |
| 11.   | Shri. Paila Syngai          | 6          | 4      | 10    | -        | -          | -     | Daily Earner | -                | -    | -         | 1   | -    | 40      | -     | 22,000        |
| 12.   | Shri. Kwei Khongsdir        | 2          | 2      | 4     | -        | -          | -     | Daily Earner | -                | -    | -         | 1   | -    | 15      | -     | 23,000        |
| 13.   | Shri. Markus Khongkrom      | 2          | 2      | 4     | -        | -          | -     | Daily Earner | -                | -    | -         | 2   | -    | 20      | -     | 27,000        |
| 14.   | Smti. Sida Khongthoh        | 2          | 3      | 5     | -        | -          | -     | Daily Earner | -                | -    | -         | 1   | -    | 18      | -     | 24,000        |
| 15.   | Shri. Batai                 | 1          | 1      | 2     | -        | -          | -     | Farmer       | -                | -    | -         | 2   | -    | 24      | -     | 22,000        |

|     | Khongkrom                |   |   |   |   |   |   |        |   |   |   |   |   |    |   |        |
|-----|--------------------------|---|---|---|---|---|---|--------|---|---|---|---|---|----|---|--------|
| 16. | Shri. Right Khongngai    | 2 | 4 | 6 | - | - | - | Farmer | - | - | - | 3 | - | 30 | - | 21,000 |
| 17. | Shri. Draï               | 2 | 2 | 4 | - | - | - | Farmer | - | - | - | 1 | - | 05 | - | 20,000 |
| 18. | Shri. Shanbor Syngai     | 3 | 1 | 4 | - | - | - | Farmer | - | - | - | 3 | - | 40 | - | 22,000 |
| 19. | Shri. Bashilor Khongthoh | 5 | 3 | 8 | - | - | - | Farmer | - | - | - | 4 | - | 35 | - | 25,000 |
| 20. | Shri. Loren Khongkhnian  | 4 | 2 | 6 | - | - | - | Farmer | - | - | - | 2 | - | 16 | - | 26,000 |
| 21. | Shri. Ribad Syngai       | 1 | 2 | 3 | - | - | - | Farmer | - | - | - | 2 | - | 20 | - | 14,000 |
| 22. | Shri. Morbi Dkhar        | 1 | 1 | 2 | - | - | - | Farmer | - | - | - | 1 | - | 10 | - | 17,000 |
| 23. | Smti. Parmen Khongthoh   | - | 4 | 4 | - | - | - | Farmer | - | - | - | 1 | - | 16 | - | 22,000 |
| 24. | Shri. Koma Thabah        | 4 | 2 | 6 | - | - | - | Farmer | - | - | - | 3 | - | 22 | - | 22,000 |
| 25. | Shri. Kesno Khongthoh    | 1 | - | 1 | - | - | - | Farmer | - | - | - | 1 | - | 10 | - | 25,000 |
| 26. | Shri. Greatman Majaw     | 1 | - | 1 | - | - | - | Farmer | - | - | - | 1 | - | 05 | - | 27,000 |
| 27. | Shri. Mining Thabah      | 1 | 1 | 2 | - | - | - | Farmer | - | - | - | 4 | - | 25 | - | 25,000 |
| 28. | Smti. Thum Khongthoh     | 1 | 1 | 2 | - | - | - | Farmer | - | - | - | 1 | - | 08 | - | 26,000 |
| 29. | Shri. Micky Umdor        | 1 | - | 1 | - | - | - | Daily  | - | - | - | 5 | - | 50 | - | 26,000 |
| 30. | Smti. Anjeline Umdor     | 4 | 3 | 7 | - | - | - | Farmer | - | - | - | 5 | - | 60 | - | 22,000 |
| 31. | Shri. Riphit Khongthoh   | 4 | 3 | 7 | - | - | - | Farmer | - | - | - | 2 | - | 30 | - | 16,000 |

**Male: 76**

**Female: 63**

**Total:139**

**BPL: 09**



**ANNEXURE III**  
**COST ESTIMATES**

**ESTIMATE FOR CONSTRUCTION OF PROTECTION WALL.**

(Rate Based as per MPWD scheduled or rates for Road and Bridges for Eastern circle, Shillong for the year 2008-09)

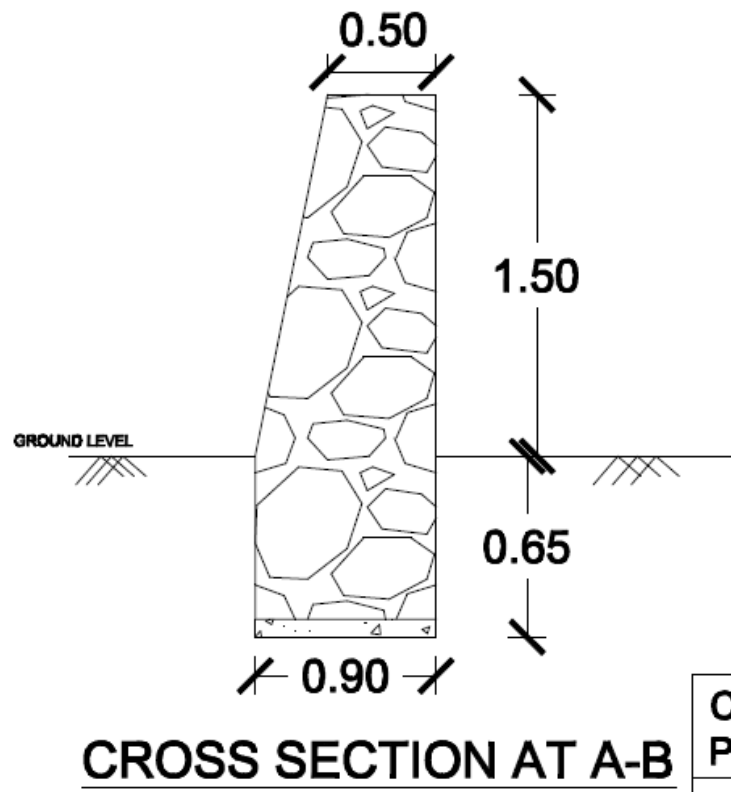
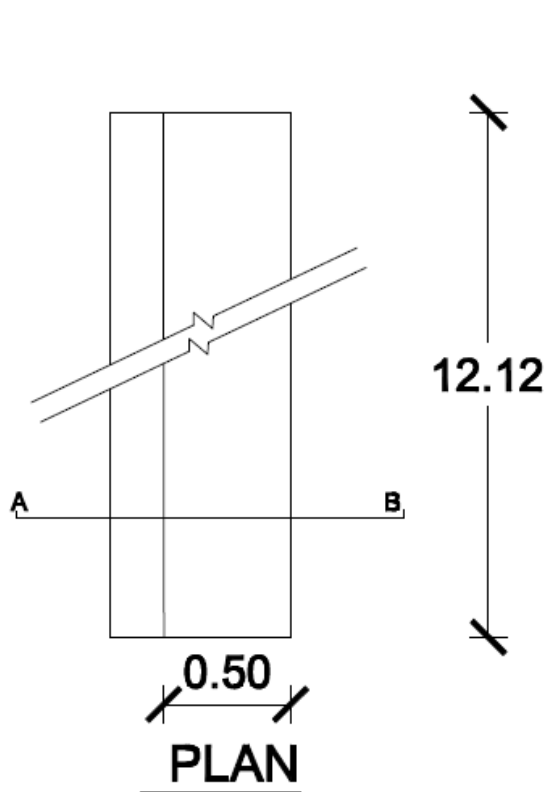
| Sl no   | PARTICULARS  | NO           | DIMENSION |     |              | QTY         | UNIT        | RATE            | AMOUNT (RS) |
|---------|--|--------------|-----------|-----|--------------|-------------|-------------|-----------------|-------------|
|         |  |              | L         | B   | H            |             |             |                 |             |
| 1/6 (a) | Earthwork in excavation for foundation of hume pipe, culvert, slab drain, retaining wall face well up to the desired founding level including dewatering, bailing out of water and protecting the sides of foundation by adequate shoring, scaffolding. The foundation is leveled both longitudinally and transversely as directed   | 1            | 12.12     | 0.9 | 0.65         | 7.09        | CU.M        |                 |             |
|         |  | <b>TOTAL</b> |           |     | <b>7.09</b>  | <b>CU.M</b> | <b>93</b>   | <b>659.39</b>   |             |
| 2/26    | Providing cement concrete work in proportion 1;4;8 with hard broken stones aggregates 40mm down graded, including necessary carriage of stone and sand within a distance of 200m and curing , complete as directed   | 1            | 12.12     | 0.9 | 0.1          | 1.09        | CU.M        |                 |             |
|         |  | <b>TOTAL</b> |           |     | <b>1.09</b>  | <b>CU.M</b> | <b>2136</b> | <b>2329.95</b>  |             |
| 3/20(a) | Providing regular stone masonry in retaining walls, breast walls, and wing walls with hammer dressed or blunt chisel dressed stones of heavy section (size not less than 25 cm x25cm x30 cm) with proper key stones not less than 25cmx25cmx75cm, in cement mortar1;6 including carriages of stones within 200m and filling in trenches and providing weep hole at 1;2 to 1:5 apart complete as directed | 1            | 12.12     | 0.9 | 0.55         | 6.00        | CU.M        |                 |             |
|         |  | 1            | 12.12     | 0.7 | 1.5          | 12.73       | CU.M        |                 |             |
|         |  | <b>TOTAL</b> |           |     | <b>18.73</b> | <b>CU.M</b> | <b>1060</b> | <b>19848.92</b> |             |

**GRAND TOTAL**

**22838.26**

**SAY :- Rs. 22,830.00**

**Rupees Twenty Two Thousand Eight Hundred Thirty only.**



**CONSTRUCTION OF PROTECTION WALL**

|              |                              |
|--------------|------------------------------|
| NOT TO SCALE | All dimensions are in metres |
|              | DRAWN BY                     |

### MODEL ESTIMATE FOR CONSTRUCTION OF PROTECTION WALL

(The rate based as per M.P.W.D Schedule of rates for Roads, Bridges and  
E & D Works 2008 - 2009)

Name of Beneficiaries -

Name of Location -

1/6 Earthwork in excavation for foundation of Hume pipe culvert, slab drain, retaining wall, face wall up to the desired founding level i/c. dewatering, bailing out of water to keep the foundation dry and protecting the sides of foundation by adequate shoring, scaffolding. The foundation is leveled both longitudinally and transversely as directed.

$$1 \times 10.00 \times 1.00 \times 0.65 = 6.50 \text{ m}^3$$

@ Rs.93.00/m<sup>3</sup>

Rs. 604.50

2/26 Providing cement concrete work in proportion 1:4:8 with hard broken stone aggregates 40mm down graded, including necessary carriage of stone and sand within a distance of 200m and curing, complete as directed.

$$10.00 \times 1.00 \times 0.10 = 1.00 \text{ m}^3$$

@ Rs.2136.00/m<sup>3</sup>

Rs. 2136.00

3/20 (a) Providing regular stone masonry work in returning walls, breast walls and wing walls with hammer dressed or blunt chisel dressed stones of heavy section with proper key stones each not less than 25cm X 25cm X 75cm, in cement mortar 1:6 including carriage of stone within 200m complete as directed.

$$10.00 \times 0.90 \times 0.55 = 4.95 \text{ m}^3$$

$$10.00 \times \frac{0.50 + 0.90}{2} \times 2.00 = \underline{14.00 \text{ m}^3}$$

$$18.95 \text{ m}^3$$

@ Rs.1060.00/m<sup>3</sup>

Rs.20087.00

TOTAL:

Rs.22827.50

Say Rs.22,830.00

(Rupees Twenty two thousand eight hundred thirty) only.

### ESTIMATE FOR CONSTRUCTION OF WATER HARVESTING STRUCTURE.

(Rate Based as per MPWD scheduled or rates for Road and Bridges for Eastern circle, Shillong for the year 2008-09)

| Sl no   | PARTICULARS  | NO           | DIMENSION |      |      | QTY   | UNIT         | RATE        | AMOUNT      |
|---------|--|--------------|-----------|------|------|-------|--------------|-------------|-------------|
|         |  |              | L         | B    | H    |       |              |             |             |
| 1/4 (b) | Earthwork in excavation for foundation for abutment and wing walls of bridges and culvert, upto the founding level including dewatering, bailing out of water and protecting the sides of foundation by adequate shoring, scaffolding. The foundation is leveled both longitudinally and traversely as directed<br><br>DAM<br>WING WALL (U/S)<br>WING WALL (D/S) | 1            | 16        | 1.2  | 0.95 | 18.24 | CU.M         |             |             |
|         |  | 2            | 5.7       | 0.9  | 0.75 | 7.70  | CU.M         |             |             |
|         |  | 2            | 5.5       | 0.9  | 0.75 | 7.43  | CU.M         |             |             |
|         |  | <b>TOTAL</b> |           |      |      |       | <b>33.36</b> | <b>CU.M</b> | <b>152</b>  |
| 2/26    | Providing cement concrete work in proportion 1;4;8 with hard broken stones aggregates 40mm down graded, including necessary carriage of stone and sand within a distance of 200m and curing , complete as directed<br><br>DAM<br>WING WALL (U/S)<br>WING WALL (D/S)  | 1            | 16        | 1.2  | 0.1  | 1.92  | CU.M         |             |             |
|         |  | 2            | 5.7       | 0.9  | 0.1  | 1.026 | CU.M         |             |             |
|         |  | 2            | 5.5       | 0.9  | 0.1  | 0.99  | CU.M         |             |             |
|         |  | <b>TOTAL</b> |           |      |      |       | <b>3.94</b>  | <b>CU.M</b> | <b>2136</b> |
| 3/41(a) | Providing shuttering with dressed planks not less than 25mm thick properly joined including battens, props to the proper level and removing of the same after the concrete is hardened complete as directed<br><br>DAM   | 1            | 16        | 1.75 |      | 28    | SQ.M         |             |             |
|         |  | <b>TOTAL</b> |           |      |      |       | <b>28.00</b> | <b>SQ.M</b> | <b>295</b>  |
| 4/28    | Providing cement concrete work in proportion 1;3;6 with hard broken stones aggregates 40mm down graded, including necessary carriage of stone and sand within a distance of 200m and curing , complete as directed<br><br>DAM  | 1            | 16        | 0.1  | 2.6  | 4.16  | CU.M         |             |             |
|         |  | <b>TOTAL</b> |           |      |      |       | <b>4.16</b>  | <b>CU.M</b> | <b>2344</b> |

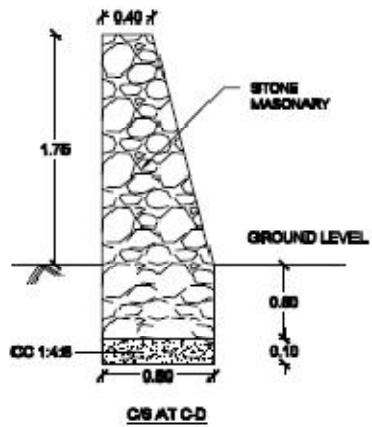
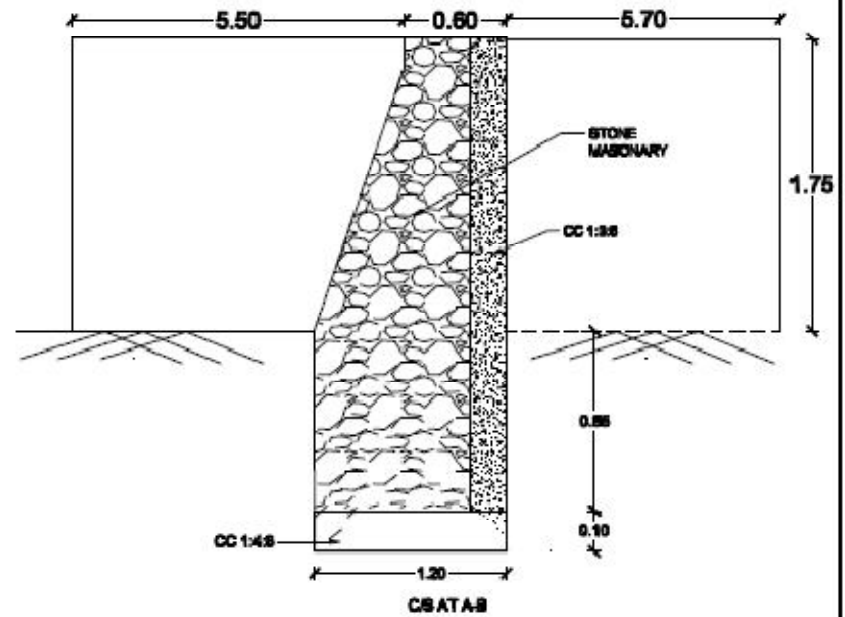
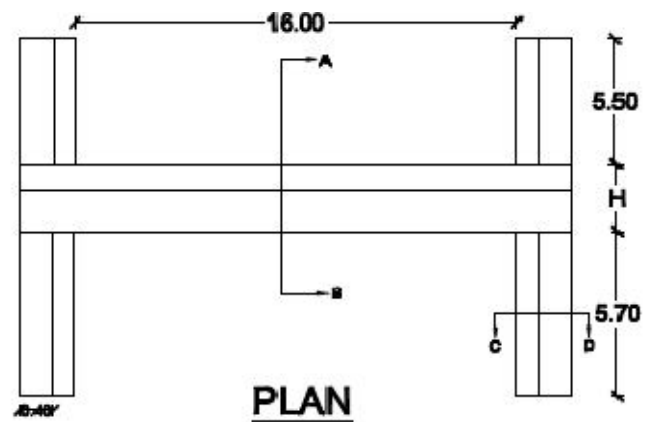
|              |  |                 |   |     |      |              |             |             |                 |  |
|--------------|--|-----------------|---|-----|------|--------------|-------------|-------------|-----------------|--|
| 5/20(a)      | Providing regular stone masonry in retaining walls, breast walls, and wing walls with hammer dressed or blunt chisel dressed stones of heavy section (size not less than 25 cm x25cm x30 cm) with proper key stones not less than 25cmx25cmx75cm, in cement mortar1;6 including carriages of stones within 200m and filling in trenches and providing weep hole at 1;2 to 1:5 apart complete as directed |                 |   |     |      |              |             |             |                 |  |
|              |  | DAM             | 1 | 16  | 1.1  | 0.85         | 14.96       | CU.M        |                 |  |
|              |  |                 | 1 | 16  | 0.80 | 1.75         | 22.40       | CU.M        |                 |  |
|              |  | WING WALL (U/S) | 2 | 5.7 | 0.9  | 0.65         | 6.67        | CU.M        |                 |  |
|              |  |                 | 2 | 5.7 | 0.70 | 1.75         | 13.97       | CU.M        |                 |  |
|              |  | WING WALL (D/S) | 2 | 5.5 | 0.90 | 0.65         | 6.44        | CU.M        |                 |  |
|              |  |                 | 2 | 5.5 | 0.70 | 1.75         | 13.48       | CU.M        |                 |  |
| <b>TOTAL</b> |  |                 |   |     |      | <b>77.90</b> | <b>CU.M</b> | <b>1060</b> | <b>82578.24</b> |  |
| 6/26         | Providing 12mm thick cement plastering including cleaing the surface, curing carriage of sand within 200m complete   |                 |   |     |      |              |             |             |                 |  |
|              |  | DAM             | 1 | 16  | 0.6  |              | 9.6         | SQ.M        |                 |  |
|              |  |                 | 1 | 16  | 1.75 |              | 28          | SQ.M        |                 |  |
|              |  | WING WALL (U/S) | 2 | 5.7 | 0.4  |              | 4.56        | SQ.M        |                 |  |
|              |  |                 | 2 | 5.7 | 1.75 |              | 19.95       | SQ.M        |                 |  |
|              |  | WING WALL (D/S) | 2 | 5.5 | 0.4  |              | 4.4         | SQ.M        |                 |  |
|              |  |                 | 2 | 5.5 | 1.75 |              | 19.25       | SQ.M        |                 |  |
| <b>TOTAL</b> |  |                 |   |     |      | <b>85.76</b> | <b>SQ.M</b> | <b>93</b>   | <b>7975.68</b>  |  |

**GRAND TOTAL**

**122042.976**

**SAY ` 1,22,000.00**

**RUPEES ONE LAKH TWENTY TWO THOUSAND ONLY.**



**CONSTRUCTION OF WATER HARVESTING STRUCTURE.**

|              |                              |
|--------------|------------------------------|
| NOT TO SCALE | All dimensions are in metres |
|              | DRAWN BY                     |

**ESTIMATE FOR CONSTRUCTION OF WATER HARVESTING STRUCTURE.**

(Rate Based as per MPWD scheduled or rates for Road and Bridges for Eastern circle, Shillong for the year 2008-09)

| SI no   | PARTICULARS  | NO           | DIMENSION |      |      | QTY    | UNIT         | RATE        | AMOUNT      |
|---------|--|--------------|-----------|------|------|--------|--------------|-------------|-------------|
|         |  |              | L         | B    | H    |        |              |             |             |
| 1/4 (b) | Earthwork in excavation for foundation for abutment and wing walls of bridges and culvert, upto the founding level including dewatering, bailing out of water and protecting the sides of foundation by adequate shoring, scaffolding. The foundation is leveled both longitudinally and transversely as directed<br><br>DAM<br>WING WALL (U/S)<br>WING WALL (D/S) | 1            | 10        | 1.2  | 0.9  | 10.80  | CU.M         |             |             |
|         |  | 2            | 3.15      | 0.9  | 0.70 | 3.97   | CU.M         |             |             |
|         |  | 2            | 3.12      | 0.9  | 0.70 | 3.93   | CU.M         |             |             |
|         |  | <b>TOTAL</b> |           |      |      |        | <b>18.70</b> | <b>CU.M</b> | <b>152</b>  |
| 2/26    | Providing cement concrete work in proportion 1;4;8 with hard broken stones aggregates 40mm down graded, including necessary carriage of stone and sand within a distance of 200m and curing , complete as directed<br><br>DAM<br>WING WALL (U/S)<br>WING WALL (D/S)  | 1            | 10        | 1.2  | 0.1  | 1.20   | CU.M         |             |             |
|         |  | 2            | 3.15      | 0.9  | 0.1  | 0.567  | CU.M         |             |             |
|         |  | 2            | 3.12      | 0.9  | 0.1  | 0.5616 | CU.M         |             |             |
|         |  | <b>TOTAL</b> |           |      |      |        | <b>2.33</b>  | <b>CU.M</b> | <b>2136</b> |
| 3/41(a) | Providing shuttering with dressed planks not less than 25mm thick properly joined including battens, props to the proper level and removing of the same after the concrete is hardened complete as directed<br><br>DAM   | 1            | 10        | 1.75 |      | 17.5   | SQ.M         |             |             |
|         |  | <b>TOTAL</b> |           |      |      |        | <b>17.50</b> | <b>SQ.M</b> | <b>295</b>  |
| 4/28    | Providing cement concrete work in proportion 1;3;6 with hard broken stones aggregates 40mm down graded, including necessary carriage of stone and sand within a distance of 200m and curing , complete as directed<br><br>DAM  | 1            | 10        | 0.1  | 2.55 | 2.55   | CU.M         |             |             |



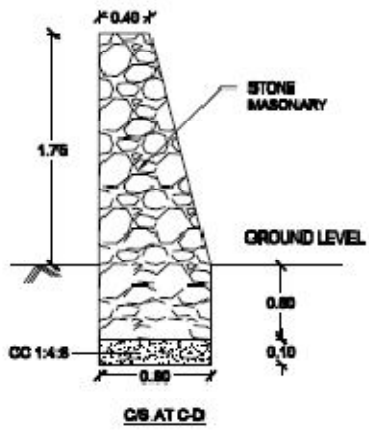
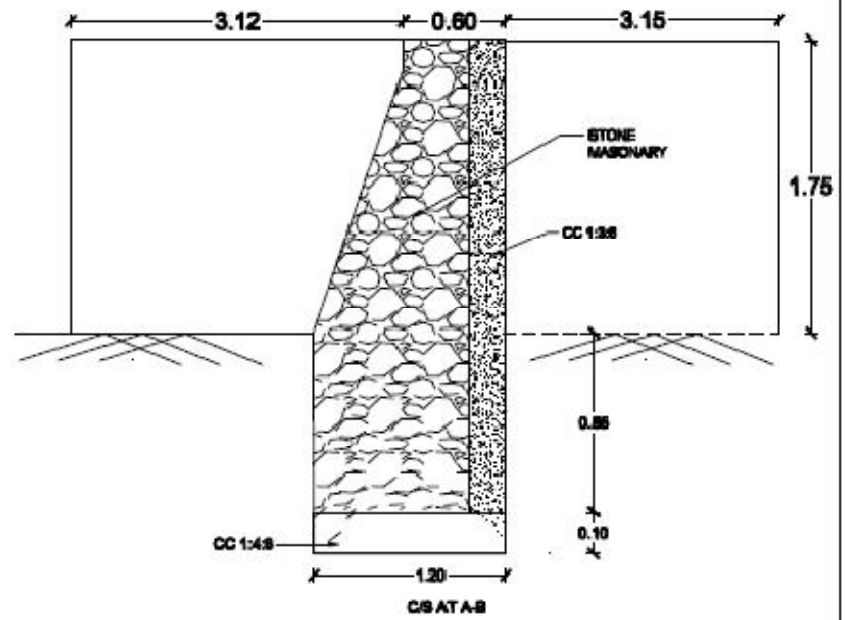
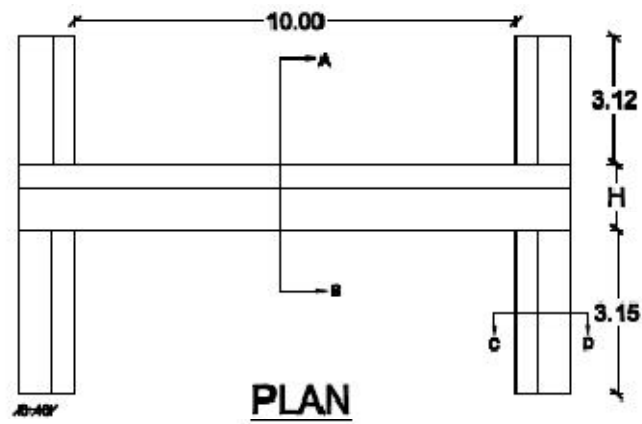
|         |  | <b>TOTAL</b> |      |      |      | <b>2.55</b>  | <b>CU.M</b> | <b>2344</b> | <b>5977.2</b>   |
|---------|--|--------------|------|------|------|--------------|-------------|-------------|-----------------|
| 5/20(a) | Providing regular stone masonry in retaining walls, breast walls, and wing walls with hammer dressed or blunt chisel dressed stones of heavy section (size not less than 25 cm x25cm x30 cm) with proper key stones not less than 25cmx25cmx75cm, in cement mortar1;6 including carriages of stones within 200m and filling in trenches and providing weep hole at 1;2 to 1:5 apart complete as directed |              |      |      |      |              |             |             |                 |
|         | DAM  | 1            | 10   | 1.1  | 0.8  | 8.80         | CU.M        |             |                 |
|         |  | 1            | 10   | 0.80 | 1.75 | 14.00        | CU.M        |             |                 |
|         | WING WALL (U/S)  | 2            | 3.15 | 0.90 | 0.60 | 3.40         | CU.M        |             |                 |
|         |  | 2            | 3.15 | 0.70 | 1.75 | 7.72         | CU.M        |             |                 |
|         | WING WALL (D/S)  | 2            | 3.12 | 0.90 | 0.60 | 3.37         | CU.M        |             |                 |
|         |  | 2            | 3.12 | 0.70 | 1.75 | 7.64         | CU.M        |             |                 |
|         |  | <b>TOTAL</b> |      |      |      | <b>44.93</b> | <b>CU.M</b> | <b>1060</b> | <b>47629.09</b> |
| 9/26    | Providing 12mm thick cement plastering including cleaing the surface, curing carriage of sand within 200m complete   |              |      |      |      |              |             |             |                 |
|         | DAM  | 1            | 10   | 0.6  |      | 6            | SQ.M        |             |                 |
|         |  | 1            | 10   | 1.75 |      | 17.5         | SQ.M        |             |                 |
|         | WING WALL (U/S)  | 2            | 3.15 | 0.4  |      | 2.52         | SQ.M        |             |                 |
|         |  | 2            | 3.15 | 1.75 |      | 11.025       | SQ.M        |             |                 |
|         | WING WALL (D/S)  | 2            | 3.12 | 0.4  |      | 2.496        | SQ.M        |             |                 |
|         |  | 2            | 3.12 | 1.75 |      | 10.92        | SQ.M        |             |                 |
|         |  | <b>TOTAL</b> |      |      |      | <b>50.46</b> | <b>SQ.M</b> | <b>93</b>   | <b>4692.87</b>  |

**GRAND TOTAL**

**71277.979**

**SAY ` 71,250.00.00**

**RUPEES SEVENTY ONE THOUSAND TWO HUNDRED FIFTY ONLY.**



**CONSTRUCTION OF WATER HARVESTING STRUCTURE.**

|              |                              |
|--------------|------------------------------|
| NOT TO SCALE | All dimensions are in metres |
|              | DRAWN BY                     |

## MODEL ESTIMATE FOR CONSTRUCTION OF WATER HARVESTING STRUCTURE

(The rate based as per P.W.D Schedule of rates for Roads, Bridges and  
E & D Works 2008 - 2009)

Name of Beneficiary -

Name of Location/Village -

1/5 (a) Earthwork in excavation for abutment and wing walls of bridges and culverts, up to the desired founding level including dewatering, bailing out of water and protecting the foundation sides by adequate shoring, scaffolding and including leveling the foundation longitudinally and transversely etc.

$$1 \times 6.00 \times 1.00 \times 0.50 = 3.00 \text{ m}^3$$

$$1 \times 1.90 \times 1.50 \times 0.35 = 0.99 \text{ m}^3$$

$$1 \times 1.90 \times 0.20 \times 0.30 = \frac{0.11 \text{ m}^3}{4.10 \text{ m}^3}$$

@ Rs.124.00/m<sup>3</sup>

Rs. 508.40

2/26 Providing cement concrete work in proportion 1:4:8 with hard broken stone aggregates 40mm down graded, including necessary carriage of stone and sand within a distance of 200m and curing, complete as directed.

$$1 \times 6.00 \times 1.00 \times 0.10 = 0.60 \text{ m}^3$$

@ Rs.2136.00/m<sup>3</sup>

Rs. 1281.60

3/41 Providing shuttering with dressed planks not less than 25mm thick

properly joined including battens, props to the proper level and removing the same after the concrete hardened.

$$\begin{aligned}
 1 \times 6.00 \times 1.10 &= 6.60 \text{ m}^2 \\
 1 \times 6.00 \times 1.20 &= 7.20 \text{ m}^2 \\
 2 \times 5.00 \times 0.40 &= 4.00 \text{ m}^2 \\
 4 \times 1.70 \times 0.30 &= 2.40 \text{ m}^2 \\
 4 \times 1.20 \times 0.30 &= 1.44 \text{ m}^2 \\
 4 \times 0.40 \times 0.30 &= 0.48 \text{ m}^2 \\
 2 \times 1.20 \times 0.20 &= 0.48 \text{ m}^2 \\
 2 \times 0.40 \times 0.20 &= 0.16 \text{ m}^2 \\
 2 \times 1.90 \times 0.20 &= \underline{0.76 \text{ m}^2} \\
 &= 23.16 \text{ m}^2 \\
 &\text{@ Rs.295.00/m}^2
 \end{aligned}$$

Rs. 6832.20

4/28 Providing cement concrete work in abutments, wing walls and return walls in proportion 1:3:6 with hard broken stone aggregates 40mm down graded including necessary carriage of stone and sand within a distance of 200m etc.

$$\begin{aligned}
 1 \times 6.00 \times 1.00 \times 0.40 &= 2.40 \text{ m}^3 \\
 1 \times 6.00 \times \frac{1.00 + 0.50}{2} \times 1.10 &= 4.95 \text{ m}^3 \\
 2 \times 2.25 \times 0.50 \times 0.40 &= 0.90 \text{ m}^3 \\
 2 \times 1.70 \times 0.50 \times 0.20 &= 0.34 \text{ m}^3 \\
 2 \times 1.20 \times 0.30 \times 0.20 &= 0.14 \text{ m}^3 \\
 2 \times 0.40 \times 0.30 \times 0.20 &= 0.05 \text{ m}^3 \\
 1 \times 1.90 \times 0.50 \times 0.20 &= 0.19 \text{ m}^3 \\
 1 \times 1.90 \times 1.50 \times 0.10 &= \underline{0.28 \text{ m}^3} \\
 &= 9.25 \text{ m}^3 \\
 &\text{@ Rs.2344.00/m}^3
 \end{aligned}$$

Rs.21682.00

5/24 Providing stone pitching with one man size boulders not less than 25cm X 25cm X 30cm long including filling the interstices with spoils and carriage of stone within a distance of 200m complete as directed.

$$1 \times 1.90 \times 1.50 \times 0.25 = 0.71 \text{ m}^3$$

@ Rs.512.00/m<sup>3</sup>

Rs. 363.52

6/27 Providing 12mm thick cement plastering including cleaning surface, curing and carriage of sand within 200m complete.

$$\begin{aligned}
 1 \times 6.00 \times 1.10 &= 6.60 \text{ m}^2 \\
 1 \times 6.00 \times 1.20 &= 7.20 \text{ m}^2 \\
 2 \times 5.00 \times 0.40 &= 4.00 \text{ m}^2 \\
 4 \times 1.70 \times 0.30 &= 2.04 \text{ m}^2 \\
 4 \times 1.20 \times 0.30 &= 1.44 \text{ m}^2 \\
 4 \times 0.40 \times 0.30 &= 0.48 \text{ m}^2 \\
 2 \times 1.20 \times 0.20 &= 0.48 \text{ m}^2 \\
 2 \times 0.40 \times 0.20 &= 0.16 \text{ m}^2 \\
 2 \times 1.90 \times 0.20 &= 0.76 \text{ m}^2 \\
 \hline
 &23.16 \text{ m}^2
 \end{aligned}$$

@ Rs.93.00/m<sup>2</sup>

Rs. 2153.88

TOTAL:Rs.32821.60

Say Rs.32,800.00

(Rupees Thirty two thousand eight hundred) only

**ESTIMATE FOR CONSTRUCTION OF CONTOUR BUNDING.**

**WIDTH - ( 0.50 + 0.30 )/2**

(Rate Based as per MPWD scheduled or rates for Roads and Bridges for Eastern circle, Shillong for the year 2008-09)

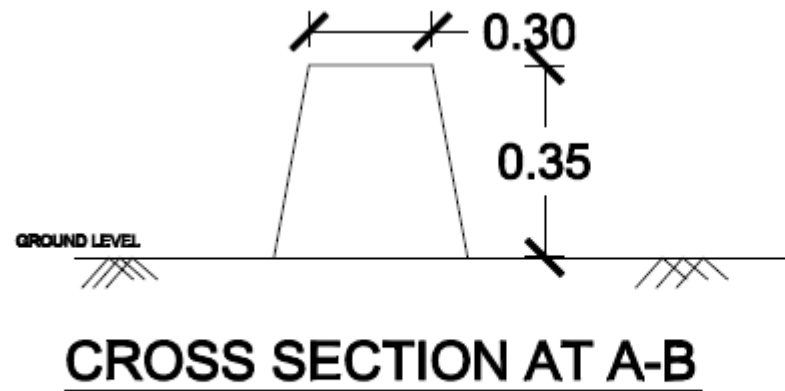
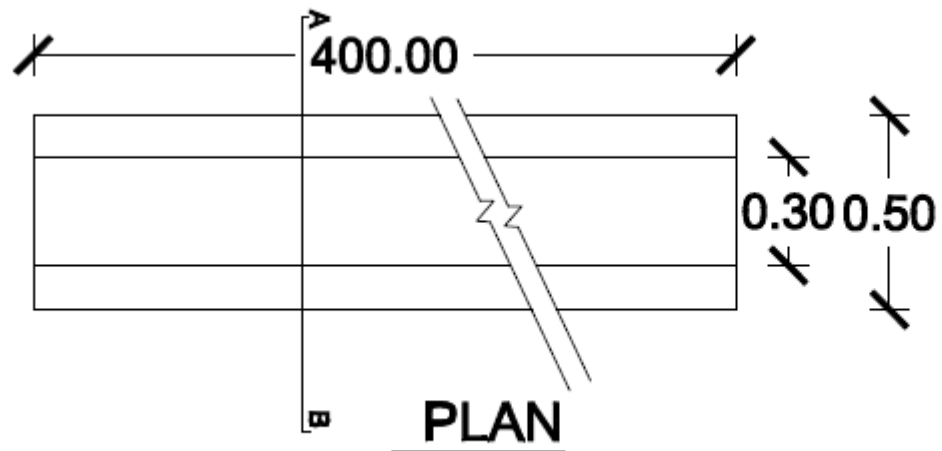
| SI no | PARTICULARS  | NO           | DIMENSION |     |              | QTY         | UNIT       | RATE (Rs)      | AMOUNT (RS) |
|-------|--|--------------|-----------|-----|--------------|-------------|------------|----------------|-------------|
|       |  |              | L         | B   | H            |             |            |                |             |
| 1/8   | Earthwork in filling with approved earth like sandy soil, moorum etc, in an embankment in layers not exceeding 20cm thick including breaking clods, dressing and ramming and lead upto 30m and lift upto 150cm | 1            | 400       | 0.4 | 0.35         | 56.00       | cu.m       |                |             |
|       |  | <b>TOTAL</b> |           |     | <b>56.00</b> | <b>cu.m</b> | <b>134</b> | <b>7504.00</b> |             |

**GRAND  
TOTAL**

**7504.00**

Say ` 7,500.00 Per Hectare

**(RUPEES SEVEN THOUSAND FIVE HUNDRED) ONLY.**



**DRAWING OF  
CONTOUR BUND.**

|                 |  |
|-----------------|--|
| NOT TO<br>SCALE | All dimensions are in<br><u>metres</u> |
|                 | DRAWN BY                               |

### ESTIMATE FOR CONSTRUCTION OF CHECK DAM

(Rate Based as per MPWD scheduled or rates for Road and Bridges for Eastern circle, Shillong for the year 2008-09)

| Sl no   | PARTICULARS  | NO           | DIMENSION |      |      | QTY    | UNIT         | RATE        | AMOUNT (RS) |
|---------|--|--------------|-----------|------|------|--------|--------------|-------------|-------------|
|         |  |              | L         | B    | H    |        |              |             |             |
| 1/4 (b) | Earthwork in excavation for foundation for abutment and wing walls of bridges and culvert, upto the founding level including dewatering, bailing out of water and protecting the sides of foundation by adequate shoring, scaffolding. The foundation is leveled both longitudinally and traversely as directed<br><br>DAM<br>WING WALL (U/S)<br>APRON   | 1            | 5         | 0.9  | 0.75 | 3.38   | CU.M         |             |             |
|         |  | 2            | 3         | 0.8  | 0.75 | 3.60   | CU.M         |             |             |
|         |  | 1            | 5         | 1.45 | 0.25 | 1.81   | CU.M         |             |             |
|         |  | <b>TOTAL</b> |           |      |      |        | <b>8.79</b>  | <b>CU.M</b> | <b>152</b>  |
| 2/26    | Providing cement concrete work in proportion 1;4;8 with hard broken stones aggregates 40mm down graded, including necessary carriage of stone and sand within a distance of 200m and curing ,<br>DAM<br>WING WALL  | 1            | 5         | 0.9  | 0.1  | 0.45   | CU.M         |             |             |
|         |  | 2            | 3         | 0.8  | 0.1  | 0.48   | CU.M         |             |             |
|         |  | <b>TOTAL</b> |           |      |      |        | <b>0.93</b>  | <b>CU.M</b> | <b>2136</b> |
| 3/41(a) | Providing shuttering with dressed planks not less than 25mm thick properly joined including battens, props to the proper level and removing of the same after the concrete is hardened complete<br>DAM<br>APRON  | 1            | 5         | 1.5  |      | 7.5    | SQ.M         |             |             |
|         |  | 2            | 1.45      | 0.1  |      | 0.29   | SQ.M         |             |             |
|         |  | <b>TOTAL</b> |           |      |      |        | <b>7.79</b>  | <b>SQ.M</b> | <b>295</b>  |
| 4/28    | Providing cement concrete work in proportion 1;3;6 with hard broken stones aggregates 40mm down graded, including necessary carriage of stone and sand within a distance of 200m and curing , c<br>DAM<br>APRON  | 1            | 5         | 0.1  | 2.15 | 1.08   | CU.M         |             |             |
|         |  | 1            | 5         | 1.45 | 0.1  | 0.725  | CU.M         |             |             |
|         |  | <b>TOTAL</b> |           |      |      |        | <b>1.80</b>  | <b>CU.M</b> | <b>2344</b> |
| 5/20(a) | Providing regular stone masonry in retaining walls, breast walls, and wing walls with hammer dressed or blunt chisel dressed stones of heavy section (size not less than 25 cm x25cm x30 cm) with proper key stones not less than 25cmx25cmx75cm, in cement mortar1;6 including carriages of stones within 200m and filling in trenches and providing weep hole at 1:2 to 1:5 apart<br><br>DAM<br><br>WING WALLS | 1            | 5         | 0.8  | 0.65 | 2.60   | CU.M         |             |             |
|         |  | 1            | 5         | 0.65 | 1.5  | 4.88   | CU.M         |             |             |
|         |  | 2            | 3         | 0.8  | 0.65 | 3.12   | CU.M         |             |             |
|         |  | 2            | 3         | 0.55 | 1.5  | 4.95   | CU.M         |             |             |
|         |  | <b>TOTAL</b> |           |      |      |        | <b>15.55</b> | <b>CU.M</b> | <b>1060</b> |
| 7/24    | Providing stone pitching with one man size boulders not less than 25cm x 25cm x 30 cm including filling the interstices with spoils and carriages of stone within a distance of 200m completed<br>APRON  | 1            | 5         | 1.45 | 0.25 | 1.8125 | CU.M         |             |             |
|         |  | <b>TOTAL</b> |           |      |      |        | <b>1.81</b>  | <b>CU.M</b> | <b>512</b>  |



|              |  |         |   |   |      |              |             |           |                |
|--------------|--|---------|---|---|------|--------------|-------------|-----------|----------------|
| 9/26         | Providing 12mm thick cement plastering including cleaing the surface, curing carriage of sand within 200m complete | DAM     | 1 | 5 | 0.5  | 2.5          | SQ.M        |           |                |
|              |  |         | 1 | 5 | 1.5  | 7.5          | SQ.M        |           |                |
|              |  | W/WALLS | 2 | 3 | 0.5  | 3            | SQ.M        |           |                |
|              |  |         | 2 | 3 | 1.5  | 9            | SQ.M        |           |                |
|              |  | APRON   | 1 | 5 | 1.45 | 7.25         | SQ.M        |           |                |
|              |  |         |   |   |      |              |             |           |                |
| <b>TOTAL</b> |  |         |   |   |      | <b>29.25</b> | <b>SQ.M</b> | <b>93</b> | <b>2720.25</b> |

**GRAND  
TOTAL**

**29965.38**

SAY 29,900.00

( RUPEES TWENTY NINE THOUSAND NINE HUNDRED ) ONLY.

## MODEL ESTIMATE FOR CONSTRUCTION OF C.C. CHECK DAM

(The rate based as per P.W.D Schedule of rates for Roads, Bridges and  
E & D Works 2008 - 2009)

Name of Beneficiary -

Name of Location/Village -

- 1/5 (a) Earthwork in excavation for abutment and wing walls of bridges and culverts, up to the desired founding level including dewatering, bailing out of water and protecting the foundation sides by adequate shoring, scaffolding and including leveling the foundation longitudinally and transversely etc.

$$1 \times 5.80 \times 1.00 \times 0.50 = 2.90 \text{ m}^3$$

$$1 \times 4.85 \times 1.50 \times 0.30 = \frac{2.18 \text{ m}^3}{5.08 \text{ m}^3}$$

$$\text{@ Rs.124.00/m}^3$$

Rs. 629.92

- 2/26 Providing cement concrete work in proportion 1:4:8 with hard broken stone aggregates 40mm down graded, including necessary carriage of stone and sand within a distance of 200m and curing, complete as directed.

$$1 \times 5.80 \times 1.00 \times 0.10 = 0.58 \text{ m}^3$$

$$\text{@ Rs.2136.00/m}^3$$

Rs. 1238.88

- 3/41 (a) Providing shuttering with dressed planks not less than 25mm thick properly joined including battens, props to the proper level and removing the same after the concrete hardened.

$$1 \times 5.80 \times 1.10 = 6.38 \text{ m}^2$$

$$1 \times 5.80 \times 1.20 = 6.96 \text{ m}^2$$

$$2 \times 3.50 \times 0.40 = 2.80 \text{ m}^2$$

$$1 \times 7.85 \times 0.05 = \frac{0.39 \text{ m}^2}{16.53 \text{ m}^2}$$

$$16.53 \text{ m}^2$$

$$\text{@ Rs.295.00/m}^2$$

Rs. 7876.35

4/28 Providing cement concrete work in abutments, wing walls and return walls in proportion 1:3:6 with hard broken stone aggregates 40mm down graded including necessary carriage of stone and sand within a distance of 200m etc.

$$1 \times 5.80 \times 1.00 \times 0.40 = 2.32 \text{ m}^3$$

$$1 \times 5.80 \times \frac{1.00 + 0.50}{2} \times 1.10 = 4.78 \text{ m}^3$$

$$2 \times 1.50 \times 0.50 \times 0.40 = 0.60 \text{ m}^3$$

$$1 \times 4.85 \times 1.50 \times 0.10 = \frac{0.73 \text{ m}^3}{8.43 \text{ m}^3}$$

$$@ \text{Rs.}2344.00/\text{m}^3$$

Rs.19759.92

5/24 Providing stone pitching with one man size boulders not less than 25cm X 25cm X 30cm long including filling the interstices with spoils and carriage of stone within a distance of 200m complete as directed.

$$1 \times 4.85 \times 1.50 \times 0.25 = 1.82 \text{ m}^3$$

$$@ \text{Rs.}512.00/\text{m}^3$$

Rs. 931.84

6/27 Providing 12mm thick cement plastering including cleaning surface, curing and carriage of sand within 200m complete.

$$1 \times 5.80 \times 1.10 = 6.38 \text{ m}^2$$

$$1 \times 5.80 \times 1.20 = 6.96 \text{ m}^2$$

$$2 \times 3.50 \times 0.40 = 2.80 \text{ m}^2$$

$$1 \times 5.80 \times 0.50 = 2.90 \text{ m}^2$$

$$1 \times 4.85 \times 1.50 = \frac{7.28 \text{ m}^2}{26.32 \text{ m}^2}$$

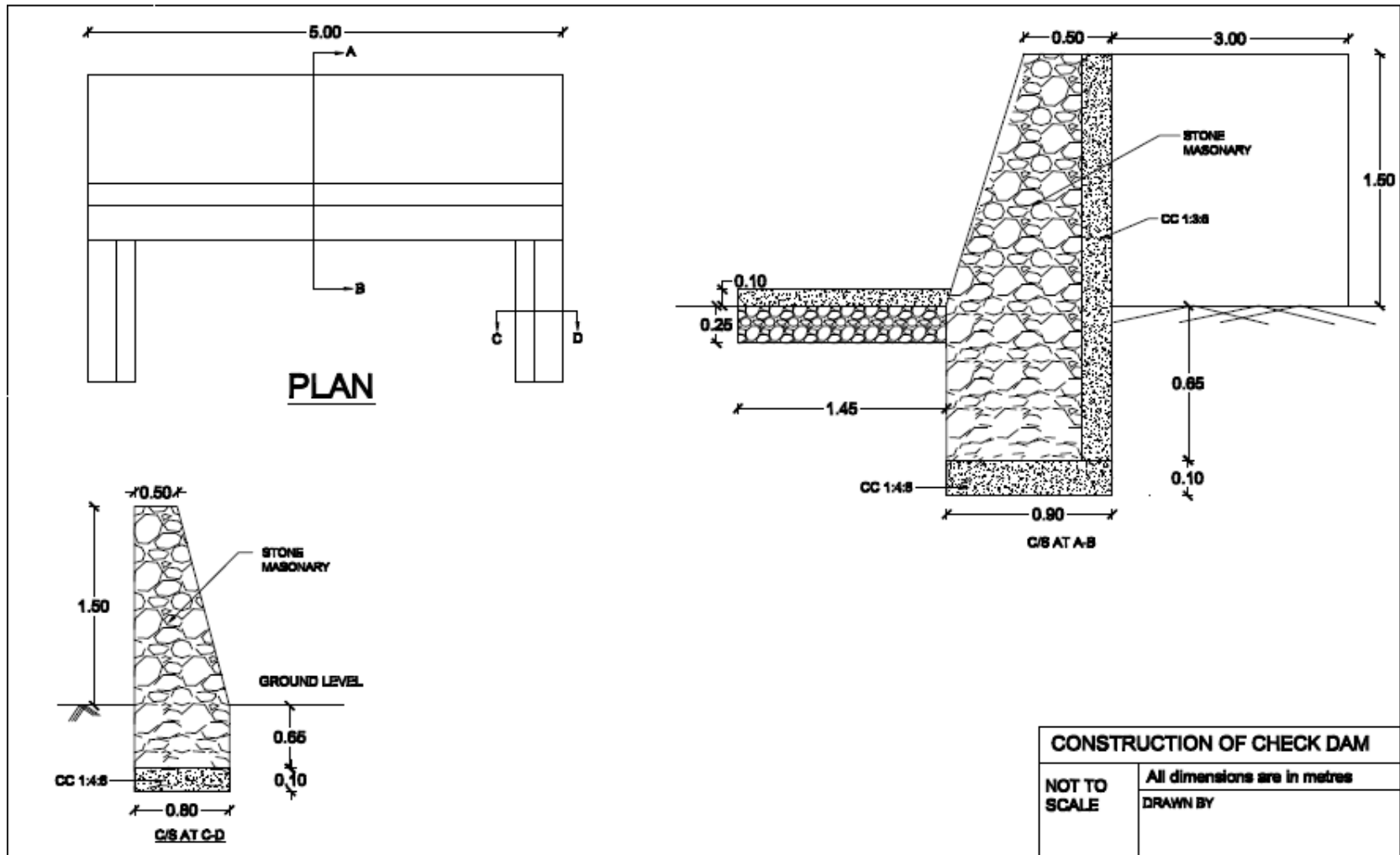
$$@ \text{Rs.}93.00/\text{m}^2$$

Rs. 2447.76

TOTAL: Rs.29884.67

Say Rs.29,900.00

(Rupees Twenty nine thousand nine hundred) only.



**MODEL OF ACTIVITIES UNDER INTEGRATED WASTELAND MANAGEMENT PROGRAMME (IWMP) FOR 500 HA PROJECT AREA.**

**A. ARABLE LAND TREATMENT**

|  |   |                         |
|--|---|-------------------------|
| I. Agro-Horticulture 100 Ha @ Rs. 8350/-per ha with Temperate                      | - | Rs. 8,35,000.00         |
| II. Contour bunding/Half Moon/Terraces/Loose boulder bund 50 Ha @ Rs. 7500/-per ha | - | Rs. 3,75,000.00         |
| III. Peripheral bunding 8000 Rm 20 Ha @ Rs. 50/- per Rm                            | - | Rs. 4,00,000.00         |
| IV. Improvement of Existing Paddy Field 30 Ha @ Rs. 4300/-per ha                   | - | Rs. 1,29,000.00         |
| <u>TOTAL ARABLE LAND 200 HA</u>  | - | <u>Rs. 17,39,000.00</u> |

**B. NON ARABLE LAND TREATMENT**

|  |   |                         |
|--|---|-------------------------|
| I. Afforestation with Pine/Non Pine 60 Ha @ Rs. 10100/- per ha   | - | Rs. 6,06,000.00         |
| II. Strip plantation two rows along the field boundary with fast growing species 30 Ha @ Rs. 4266/- per ha | - | Rs. 1,27,980.00         |
| III. Improvement of Degraded Forest 150 Ha @ Rs. 3600/- per ha   | - | Rs. 5,40,000.00         |
| <u>TOTAL NON ARABLE LAND 240 HA</u>  | - | <u>Rs. 12,73,980.00</u> |

**C. DRAINAGE LINE TREATMENT**

|   |   |                         |
|---|---|-------------------------|
| I. Check Dam (Span – 5.8m) 8 Nos (24 Ha) @ Rs. 29900/-each            | - | Rs. 2,39,200.00         |
| II. Protection Wall (span – 10m) 6 Nos (8 Ha) @ Rs. 22830/-each       | - | Rs. 1,36,980.00         |
| III. Small Dug out pond (Size-20m x 10m) 7 Nos 10 Ha @ Rs. 1600/-each | - | Rs. 1,12,000.00         |
| IV. Water Harvesting (Span – 6m) 7 Nos (18 Ha) @ Rs. 32800/each       | - | Rs. 2,29,600.00         |
| V. Run-off Disposal Channel 740 Rm @ Rs. 26/- per Rm                  | - | Rs. 19,240.00           |
| <u>TOTAL DRAINAGE LINE 60 HA</u>                                      | - | <u>Rs. 7,37,020.00</u>  |
| <u>GRAND TOTAL 500 HA</u>   | - | <u>Rs. 37,50,000.00</u> |

**MODEL NORMS PER HECTARE FOR AGRO – HORTICULTURE WITH CITRUS FRUIT (INTEGRATED WATERSHED  
MANAGEMENT PROGRAMME)**  
**(Rate as per PWD, SOR for R&B 2008 – 2009)**

Spacing - 8m x 6.3m

Plant Density - 200 Nos.

A. Preliminary works

|  |       |                   |
|--|-------|-------------------|
| I. Site clearance                                |       |                   |
| 3 mandays @ Rs.100/- per manday                  | -     | Rs. 300.00        |
| II. Pit digging (pit size 0.45m x 0.45m x 0.45m) |       |                   |
| 200 Nos. @ Rs.5/- each                           | -     | <u>Rs.1000.00</u> |
|  | Total | - Rs.1300.00      |

B. First year Planting

|  |       |                   |
|--|-------|-------------------|
| I. Cost of planting materials                |       |                   |
| 200 Nos. @ Rs.10/- each                      | -     | Rs.2000.00        |
| II. Cost of planting 200 Nos. @ Rs. 3/- each | -     | Rs. 600.00        |
| III. Weeding two times                       |       |                   |
| 20 mandays @ Rs.100/- per manday             | -     | <u>Rs.2000.00</u> |
|  | Total | - Rs.4600.00      |

C. Second year Planting

|   |   |                   |
|---|---|-------------------|
| I. Refilling vacancy (10%)                                  | - | Rs. 360.00        |
| II. Weeding two times                                       |   |                   |
| 20 mandays @ Rs.100/- per manday                            | - | Rs.2000.00        |
| III Plant protection measures including<br>cost of chemical | - | <u>Rs. 340.00</u> |

Total - Rs.2700.00

Grand Total A+B+C = Rs.1300.00 + Rs.4600.00 + Rs.2700.00 = Rs.8600.00

(Rupees Eight thousand six hundred) only.

**MODEL NORMS PER HECTARE FOR AFFORESTATION WITH PINE/NON-PINE (INTEGRATED WATERSHED MANAGEMENT PROGRAMME)**

**(Rate as per PWD, SOR for R&B 2008 – 2009)**

Spacing 6m x 5.5m

Plant Density – 300 Nos.

**B. Preliminary works**

|  |   |                    |
|--|---|--------------------|
| J. Jungle clearance etc.<br>5 mandays @ Rs.100/- per manday                | - | Rs. 500.00         |
| II. Pit digging (pit size 0.30m x 0.30m x 0.30m)<br>300 Nos. @ Rs.4/- each | - | <u>Rs. 1200.00</u> |
| Total  | - | Rs. 1700.00        |

**B. First year Planting**

|   |   |                   |
|---|---|-------------------|
| I. Cost of planting materials<br>300 Nos. @ Rs.8/- each         | - | Rs. 2400.00       |
| II. Cost of planting 300 Nos. @ Rs. 2/- each                    | - | Rs. 600.00        |
| III. Weeding two times 20 mandays<br>@ Rs.100/- per manday      | - | Rs. 2000.00       |
| IV. Fire protection measures<br>5 mandays @ Rs.100/- per manday | - | <u>Rs. 500.00</u> |
| Total   | - | Rs. 5500.00       |

**C. Second year Planting**

|   |   |             |
|---|---|-------------|
| I. Vacancy refilling (10%)                                | - | Rs. 400.00  |
| II. Weeding two times 20 mandays<br>@ Rs.100/- per manday | - | Rs. 2000.00 |



III. Fire protection measures

|                                 |   |                   |
|---------------------------------|---|-------------------|
| 5 mandays @ Rs.100/- per manday | - | <u>Rs. 500.00</u> |
| Total                           | - | Rs. 2900.00       |

Grand Total A+B+C = Rs.1700.00 + Rs.5500.00 + Rs.2900.00 = Rs.10100.00

(Rupees Ten thousand one hundred) only.

**COST NORMS FOR LOOSE BOULDER BUNDS (IWMP)**  
**(Rate as per PWD, SOR for R&B 2008 – 2009)**

A. SPECIFICATIONS & COSTS OF LOOSE BOULDER BUNDS

|              |   |       |
|--------------|---|-------|
| Top Width    | = | 0.4 m |
| Bottom Width | = | 1.0 m |
| Height       | = | 0.9 m |
| Length       | = | 10 m  |

1/3.11 Providing dry stone masonry walls etc....

$$10\text{m} \times \frac{0.4+1.0}{2} \text{m} \times 0.90 = 6.30\text{m}^3 @ \text{Rs.}1191/\text{m}^3 = \text{Rs.}7,500.00$$

$$\text{Total} = \text{Rs.}7,500.00$$

(Rupees Seven Thousand Five Hundred) only.

**COST NORMS FOR HALF MOON TERRACES (IWMP)**  
**(Rate as per PWD, SOR for R&B 2008 – 2009)**

A. SPECIFICATIONS & COSTS OF BOX/HALF MOON TERRACES

|                    |   |          |
|--------------------|---|----------|
| Terrace Width      | = | 1.2 m    |
| Terrace Height     | = | 1.2 m    |
| Terrace Length     | = | 1.2 m    |
| Spacing of Boxes   | = | 6m x 5m  |
| No. of Box/Hectare | = | 334 Nos. |

1/3 (a) Earthwork in excavation etc. in ordinary soil etc.

$$334 \text{ Nos.} \times \frac{1}{2} \times 1.2 \times 1.2 \times 1.2 = 288.50\text{m}^3$$

$$\text{@ Rs.26.00/m}^3 = \text{Rs.7,500.00}$$

$$\text{Total} = \text{Rs.7,500.00}$$

(Rupees Seven Thousand Five Hundred) only.

**MODEL NORMS PER HECTARE FOR IMPROVEMENT OF DEGRADED FOREST (INTEGRATED WATERSHED MANAGEMENT PROGRAMME)**

**(Rate as per PWD, SOR for R&B 2008 – 2009)**

|    |  |       |                   |
|----|--|-------|-------------------|
| C. | <u>Preliminary works</u>                         |       |                   |
|    | K. Site clearance                                |       |                   |
|    | 3 mandays @ Rs.100/- per manday                  | -     | Rs. 300.00        |
|    | II. Pit digging (pit size 0.30m x 0.30m x 0.30m) |       |                   |
|    | 100 Nos. @ Rs.4/- each                           | -     | <u>Rs. 400.00</u> |
|    |  | Total | -                 |
|    |  |       | Rs. 700.00        |
| B. | <u>First year Planting</u>                       |       |                   |
|    | I. Cost of planting materials                    |       |                   |
|    | 100 Nos. @ Rs.8/- each                           | -     | Rs. 800.00        |
|    | II. Cost of planting 100 Nos. @ Rs. 2/- each     | -     | Rs. 200.00        |
|    | III. Round Weeding around the plant four times   |       |                   |
|    | 5 mandays @ Rs.100/- per manday                  | -     | Rs. 500.00        |
|    | IV. Fire protection measures                     |       |                   |
|    | 4 mandays @ Rs.100/- per manday                  | -     | <u>Rs. 400.00</u> |
|    |  | Total | -                 |
|    |  |       | Rs.1900.00        |
| C. | <u>Second year Planting</u>                      |       |                   |
|    | I. Refilling vacancy (10%)                       | -     | Rs. 100.00        |
|    | III. Round Weeding around the plant four times   |       |                   |
|    | 5 mandays @ Rs.100/- per manday                  | -     | Rs. 500.00        |
|    | III. Fire protection measures                    |       |                   |
|    | 4 mandays @ Rs.100/- per manday                  | -     | <u>Rs. 400.00</u> |
|    |  | Total | -                 |
|    |  |       | Rs.1000.00        |

Grand Total A+B+C = Rs.700.00 + Rs.1900.00 + Rs.1000.00 = Rs.3600.00

(Rupees Three thousand six hundred) only.

## **ANNEXURE IV**

**MOA, NOC, REGISTRATION CERTIFICATES, PHOTOS ETC.**

***NO OBJECTION CERTIFICATE***

Dated - 01.03.2011.

This is to certify that the Dorbar Shnong MAWSIANGEL SOHRA SYIEMSHIP has no Objection for the Upper Tharia Watershed committee to register in the Office of the Deputy Commissioner, Shillong, for Registration under the Societies Registration Act of XII 1983.

The watershed committee operates under the jurisdiction of the village/Elaka.


*H. R. Rana*  
**Sirdar Mawstangel**  
**Sohra Syiemship**

***NO OBJECTION CERTIFICATE***

Dated - 01.03.2011.

This is to certify that the Dorbar Shnong Tyrna (MANSHANOK, LUMSOHPHE, NONGTHYNMAI) has no Objection for the Umsai Watershed committee to register in the Office of the Deputy Commissioner, Shillong, for Registration under the Societies Registration Act of XII 1983.

The watershed committee operates under the jurisdiction of the village/Elaka.

  
S. L. SOHKHLET  
Sirdar of Elaka  
Tyrna



*NO OBJECTION CERTIFICATE*

Dated - 01.03.2011.

This is to certify that the Dorbar Shnong NONGLA, SOHRA SYIEMSHIP has no Objection for the Upper Tharia Watershed committee to register in the Office of the Deputy Commissioner, Shillong, for Registration under the Societies Registration Act of XII 1983.

The watershed committee operates under the jurisdiction of the village/Elaka.

*JASSOY*  
Dorbar Nongla  
Sohra Syiemship



**Certificate of Registration of Societies**

ACT 12 OF 1983

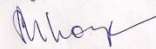
No. E.16/5/ of 2010/183

I hereby certify that Upper Tharia Watershed Committee  
IWMP (2010-11) Project-VI

has this day been registered under Meghalaya Societies Registration Act,  
12 of 1983.

Given under my hand at Shillong  
this 11th day of March

Two thousand and eleven  
Registration fee of Rs. Two hundred and fifty only.

  
**Registrar of Societies,**  
Meghalaya, Shillong.



**Certificate of Registration of Societies**

ACT 12 Of 1983

No. E.16/5/ of 2010/184

I hereby certify that Wah Umsai Watershed Committee

IWMP (2010-11) Project-VI

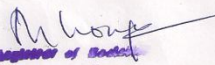
has this day been registered under Meghalaya Societies Registration Act,  
12 of 1983.

Given under my hand at Shillong

this 11th day of March

Two thousand and eleven

Registration fee of Rs. Two hundred and fifty only.

  
**Registrar of Societies,**  
Meghalaya, Shillong.

## MEMORANDUM OF ASSOCIATION

## OF

UPPER THARIA Watershed Committee covering village Suktia, Nongla, Mawsiangei and Tyrngei under IWMP Project-VI, Shella-Bholaganj C&RD Block, East Khasi Hills District, Meghalaya.

7. Name of Committee: **UPPER THARIA** Watershed Committee under Project- VI IWMP, Shella-Bholaganj C&RD Block, East Khasi Hills District, Meghalaya.
8. Registration Office of Committee: **UPPER THARIA** Watershed Committee, village Suktia, Nongla, Mawsiangei and Tyrngei, Shella-Bholaganj C&RD Block, East Khasi Hills District, Meghalaya, P.O Pynursla P.S. Pynursla.
9. Date of Establishment :28<sup>th</sup> September 2010
10. Objectives :
  - (i) To involve primary stakeholders at the centre of Planning, Budgeting, Implementation and Management of Watershed Projects.
  - (ii) To promote facilitation of social mobilization, community organization at the village/watershed level, building the capacities of village/watershed communities in planning and implementation and to ensure equity arrangements.
  - (iii) To promote empowerment of the village/watershed community socially, economically, financially, etc., with a sense of ownership/ rights to ownership and responsibility and accountability.
  - (iv) To build up, associated links closely with village Durbar/ council of coordinating and convergence of rural development programmes within the Watershed Projects for holistic and realistic development of Watershed Committee.
  - (v) To perform the duties, roles and responsibilities of the Society through the Governing Body listed in Rule 11 of the Constitution.

## 11. The Governing Body of the Society(Watershed Committee):

| Sl.No | Name                       | Address                       | Designation    |
|-------|----------------------------|-------------------------------|----------------|
| 1.    | Shri. Kel Tymthai          | Suktia                        | Chairman       |
| 2.    | Shri. A.S. Kharlukhi       | S & WC (T) Division, Shillong | Project Leader |
| 3.    | Shri. L.Wanniang           | - D0 -                        | Secretary      |
| 4.    | Shri. Pynbiang Majaw       | Tyrngei                       | Member         |
| 5.    | Shri. Jemanuel Nilar       | - D0 -                        | - Do -         |
| 6.    | Shri. Phrangsngi Khongthah | - D0 -                        | - Do -         |
| 7.    | Shri. Director Massar      | Nongla                        | - Do -         |
| 8.    | Shri. Koswel Tymthai       | - D0 -                        | - Do -         |
| 9.    | Shri. Moses Ksing          | - D0 -                        | - Do -         |
| 10.   | Shri. Hehbor Rynngnga      | Mawsiangei                    | - Do -         |
| 11.   | Shri. Tyngshain Rynngnga   | - D0 -                        | - Do -         |
| 12.   | Shri. Mian Khongshei       | Suktia                        | - Do -         |
| 13.   | Shri. Pynsuk Khriam        | - D0 -                        | - Do -         |
| 14.   | Smti. Ailin Thabah         | - D0 -                        | - Do -         |
| 15.   | Smti. I.Dohling            | Jaiaw, Shillong               | WDT Member     |
| 16.   | Shri. Samuelson Lyngdoh    | Lumpynggad, Shillong          | WDT Member     |

*K. T. T. T.*  
Chairman  
Upper Tharia (IWMP)  
Watershed Committee

*A. S. K.*  
Project Leader  
Upper Tharia (IWMP)  
Watershed Committee

*L. W.*  
Secretary  
Upper Tharia (IWMP)  
Watershed Committee

12. We the undersigned are desirous of forming the Committee in pursuance of the Memorandum of Committee:

| Sl.No | Signature           | Occupation & Designation of the Signatory | Name, Address, Occupation & Description witness                       |
|-------|---------------------|---|---|
| 1.    | <i>C.R. Upthai</i>  | Chairman                                  |   |
| 2.    | <i>Asun</i>         | Service Project Leader                    |   |
| 3.    | <i>Mune</i>         | Service Secretary                         |   |
| 4.    | <i>PWT</i>          | cultivator Member                         | <i>Mune</i><br>Range Officer<br>Sohra Soil & Water Conservation Range |
| 5.    | <i>SE man</i>       | cultivator Member                         | <i>Sohra.</i>   |
| 6.    | <i>P. KhongThah</i> | cultivator Member                         |   |
| 7.    | <i>Kyngthai</i>     | cultivator Member                         |   |
| 8.    | <i>H. Kyngngas</i>  | cultivator Member                         |   |
| 9.    | <i>M. S. S. S.</i>  | cultivator Member                         |   |
| 10.   | <i>P. Khon</i>      | cultivator Member                         |   |
| 11.   | <i>M. L. S. S.</i>  | cultivator Member                         |   |
| 12.   | <i>M. L. S. S.</i>  | cultivator Member                         |   |
| 13.   | <i>M. S. S. S.</i>  | cultivator Member                         |   |
| 14.   |                     | cultivator Member                         |   |
| 15.   | <i>Asun</i>         | WDT Member                                |   |
| 16.   |                     | WDT Member                                |   |

*C.R. Upthai*  
Chairman  
Upper Tharia (IWMP)  
Watershed Committee

*Asun*  
Project Leader  
Upper Tharia (IWMP)  
Watershed Committee

*Mune*  
Secretary  
Upper Tharia (IWMP)  
Watershed Committee

**MEMORANDUM OF ASSOCIATION**

OF

**WAH UMSAI** Watershed Committee covering village Nongthymmai, Lumsophie, Mawshamok and Tyrna under IWMP Project-VI, Shella-Bholaganj C&RD Block, East Khasi Hills District, Meghalaya.

1. Name of Committee: Wahumsai Watershed Committee under Project- VI IWMP, Shella-Bholaganj C&RD Block, East Khasi Hills District, Meghalaya.
2. Registration Office of Committee: WAH UMSAI Watershed Committee, village Nongthymmai, Lumsophie, Mawshamok and Tyrna, Shella-Bholaganj C&RD Block, East Khasi Hills District, Meghalaya, P.O Sohra, P.S Sohra.
3. Date of Establishment :29<sup>th</sup> September.2010
4. Objectives :

- (i) To involve primary stakeholders at the centre of Planning, Budgeting, Implementation and Management of Watershed Projects.
- (ii) To promote facilitation of social mobilization, community organization at the village/watershed level, building the capacities of village/watershed communities in planning and implementation and to ensure equity arrangements.
- (iii) To promote empowerment of the village/watershed community socially, economically, financially, etc., with a sense of ownership/ rights to ownership and responsibility and accountability.
- (iv) To build up, associated links closely with village Durbar/ council of coordinating and convergence of rural development programmes within the Watershed Projects for holistic and realistic development of Watershed Committee.
- (v) To perform the duties, roles and responsibilities of the Society through the Governing Body listed in Rule 11 of the Constitution.

5. The Governing Body of the Society (Watershed Committee):

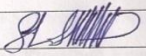

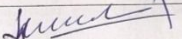
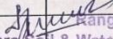

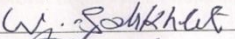
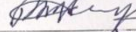
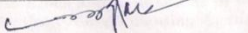

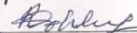


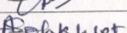
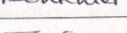
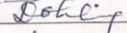
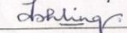
| Sl.No | Name                   | Address                       | Designation    |
|-------|------------------------|-------------------------------|----------------|
| 1.    | Shri. Studly Sohkhet   |                               | Chairman       |
| 2.    | Shri. A.S. Kharlukhi   | S & WC (T) Division, Shillong | Project Leader |
| 3.    | Shri. L.Waniang        | - D0 -                        | Secretary      |
| 4.    | Shri. Tyron Syiemlieh  | Nongthymmai                   | Member         |
| 5.    | Shri. Peter Syiemlieh  | - Do -                        | - Do -         |
| 6.    | Shri. Leston Pde       | Lumsophie                     | - Do -         |
| 7.    | Shri. Wimstar Sohkhet  | - Do -                        | - Do -         |
| 8.    | Shri. Brudes langrai   | Mawshamok                     | - Do -         |
| 9.    | Shri. Larsing Majaw    | - Do -                        | - Do -         |
| 10.   | Shri. Restar Majaw     | Tyrna                         | - Do -         |
| 11.   | Shri. Rojul Dohling    | - Do -                        | - Do -         |
| 12.   | Shri. Andreas Wansai   | - Do -                        | - Do -         |
| 13.   | Shri. Grefit Sohkhet   | - Do -                        | - Do -         |
| 14.   | Smti. Airy Sohkhet     | - Do -                        | - Do -         |
| 15.   | Smti. Jesika Dohling   | - Do -                        | - Do -         |
| 16.   | Smti. I.Dohling        | Jaiaw, Shillong               | WDT Member     |
| 17.   | Shri.Samuelson Lyngdoh | Lumpynggad, Shillong          | WDT Member     |

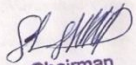
*[Signature]*  
**Chairman**  
 Wahumsai (IWMP)  
 Watershed Committee


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**Project Leader**  
 Wah Umsai (IWMP)  
 Watershed Committee

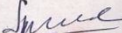
*[Signature]*  
**Secretary**  
 Wah Umsai (IWMP)  
 Watershed Committee

6. We the undersigned are desirous of forming the Committee in pursuance of the Memorandum of Committee:

| Sl.No | Signature   | Occupation & Designation of the Signatory | Name, Address, Occupation & Description witness   |
|-------|---|---|---|
| 1.    |   | Chairman                                  |   |
| 2.    |  | Service Project Leader                    |   |
| 3.    |   | Service Secretary                         | <br>Range Officer<br>Sohra Soil & Water Conservation Range |
| 4.    | T. S. Gindil  | cultivator                                | Member<br>Sohra.  |
| 5.    | P. S. Ghosh   | cultivator                                | Member  |
| 6.    |    | cultivator                                | Member  |
| 7.    |   | cultivator                                | Member  |
| 8.    |   | cultivator                                | Member  |
| 9.    |   | cultivator                                | Member  |
| 10.   |    | cultivator                                | Member  |
| 11.   |   | cultivator                                | Member  |
| 12.   |    | cultivator                                | Member  |
| 13.   |    | cultivator                                | Member  |
| 14.   |   | cultivator                                | Member  |
| 15.   |   | cultivator                                | Member  |
| 16.   |   | WDT Member                                |   |
| 17.   |  | WDT Member                                |   |

  
Chairman  
Wahumsai (IWMP)  
Watershed Committee

  
Project Leader  
Wah Umsai (IWMP)  
Watershed Committee

  
Secretary  
Wah Umsai (IWMP)  
Watershed Committee



**PRA EXERCISE CUM AWARENESS PROGRAMME AT TYRNA VILLAGE UNDER WAH UMSAI MICRO WATERSHED**

**IWMP-PROJECT VI 2010-11**

**SOCIO-ECONOMIC SURVEY**







**RESOURCE MAPPING**

**RESOURCE MAPPING**





**MATRIX RANKING**



**PRA EXERCISE CUM AWARENESS PROGRAMME AT SUKTIA VILLAGE UNDER UPPER THARIA MICRO WATERSHED**

**IWMP PROJECT-VI 2010-11**

**DETAILED MAP OF THE WATERSHED**





DETAILED MAP OF THE WATERSHED

**SOCIO-ECONOMIC SURVEY**





## RESOURCE MAPPING

## MATRIX RANKING





**AWARENESS CUM TRAINING PROGRAMME HELD AT SUKTIA VILLAGE ON THE 24<sup>TH</sup> NOVEMBER 2010 UNDER UPPER THARIA WATERSHED OF IWMP PROJECT VI 2010-11**

**SHRI.HS KHARPRAN,AS & WCO SPOKE AT THE AWARENESS PROGRAMME AT SUKTIA VILLAGE UNDER UPPER THARIA WATERSHED OF IWMP PROJECT VI 2010-11**





**SYIEM OF SOHRA DELIVERING HIS SPEECH AT THE PROGRAMME**

**SHRI. SHADAP, AGRICULTURE DEVELOPMENT OFFICER OF SHELLA BHOLAGANJ C & RD BLOCK DURING THE TRAINING SESSION**





**SMT.I.DOHLING DURING THE TRAINING SESSION**

**SORDAR OF NONGLA DELIVERING HIS SPEECH AT THE PROGRAMME**







AWARENESS PROGRAMME HELD AT TYRNA VILLAGE ON THE 18<sup>TH</sup> NOVEMBER 2010 UNDER WAH UMSAI MICRO WATERSHED IWMP PROJECT VI 2010-11

SHRIL. WANNIANG, RANGE OFFICER SOHRA S& WC RANGE, DURING THE AWARENESS PROGRAMME AT TYRNA VILLAGE UNDER WAH UMSAI WATERSHED IWMP 2010-11





**SHRI.B.P. MARWEIN, AS &WCO SPOKE ON THE OCCASSION AT TYRNA VILLAGE UNDER WAH UMSAI DURING THE AWARENESS PROGRAMME**

**SHRI.J.D.SUCHIANG, SUB DIVISIONAL OFFICER (C) SOHRA SUB DIVISION SPOKE ON THE AWARENESS PROGRAMME AT TYRNA UNDER WAH UMSAI IWMP 2010-11**





**PARTICIPANTS IN THE PROGRAMME AT TYRNA VILLAGE UNDER WAH UMSAI WATERSHED IWMP PROJECT VI 2010-11**