# **DETAILED PROJECT REPORT**

# CHINAMGIJA - INTEGRATED WATERSHED MANAGEMENT PROJECT

IWMP - V

2011 – 2012

**RONGRAM C & RD BLOCK** 

WEST GARO HILLS DISTRICT

**MEGHALAYA** 

#### **SUMMARY**

Name of the Sate : Meghalaya

Name of the District : West Garo Hills District

Name of the C&RD Block : Rongram

Name of the Villages : (i) Gondenggre

Name of the Project : West Garo Hills – IWMP – V

Total Geographical Area : 344.80 Ha.

Total Treatment Area : 250.00 Ha

Total Project Cost : 37.50 lakhs

Project Duration : 5 Years

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

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# CHAPTER I INTRODUCTION AND BACKGROUND

#### **CHAPTER I**

#### INTRODUCTION AND BACKGROUND

#### 1.1 Project Background:

The Chinamgija (IWMP-V) project is located in Rongram C&RD Block, West Garo Hills District of Meghalaya. Consisting of a single microwatershed, the project area is drained by the Ringgi River and its tributaries flowing in a east to south-West direction. The total area is 344.80 Ha. with 250.00 Ha. to be treated under the Integrated Watershed Management Programme (IWMP).

The Project area is located at a distance of about 16 km from Rongram C.& R.. D. and about 31 km from Tura the District Headquarter. One village is covered under the project. That is —

RE./

#### 1. Gondenggre

#### 1.2 Micro-watershed Information:

The total area of the micro-watershed is 344.80 Ha., with 250 hectares to be treated under the Integrated Watershed Management Programme (IWMP).

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

Located on the slopes of the deep gorges of the Arbella Plateau the villages have only one road connectivity. The farmers are all marginal and 52 households are below the poverty line, which is 90% 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 is :-

#### i. MGNREGS

# 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 Nokma under Rongram C&RD Block of West Garo Hills District. It is situated at a distance of about 16 km from Rongram C.& R. D. Block and about31 km from Tura the District Headquarter. The geographical location is between 90° 20' to 90° 21' 10"E Longitude and 25° 34' to 25° 35' 21"N Latitude. There are 1 village within the Watershed area which is as follows –

#### 1. Gondenggre

At present, this village is connected to seasonal motorable road.

#### 2.2 Physiography:

The physiography of the micro-watershed is highly undulating. The altitude ranges from a minimum of 400m to a high of 850 above mean sea level. In the lower reaches (valley lands) the slope ranges from 20% to 40%, however, in the middle and upper reaches it is greater than 45 %, and can reach up to 180%.

Table 2.1: Physiographic details

| Elevation (metres) | Slope Range (%) | Order of watershed Sub/Micro-watershed | Major streams | Topography |
|--------------------|-----------------|--|---------------|------------|
| 400 m to 850m      | 5% -> 50%       | Second order                           | Chinamgija    | Sloping    |

**2.3 Drainage:** The major stream draining the micro-watershed is the Ringgi which is a 2<sup>nd</sup> order stream flowing in east-south direction. The slopes of the micro-watershed are dissected by numerous small tributaries flowing to the Ringgi.

**2.4 Soil:** Soil Texture is gravelly on the sloping lands and clayey to sandy clay on the low lying areas. 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.<br>No. | Names of<br>State | Names of<br>District | Names<br>of<br>Projects | Cause   | Types<br>of<br>erosion | Area<br>affected<br>(ha) | Run-off (mm/<br>year)  | Average soil loss (Tonnes/<br>ha/ year) |           |           |      |           |      |
|            |                   |                      |                         | Water e | erosion:               |                          |                        |   |           |           |      |           |      |
|            |                   | West Hills           | West                    | a       | Sheet                  | 220                      | 2500-4000              | 56.4                                    |           |           |      |           |      |
|            |                   |                      | West H                  |         |                        | Garo                     | b                      | Rill                                    | 130       | 2500-4000 | 33.3 |           |      |
| 1          | Meghalaya         |                      |                         |         |                        | GaroHills   F            | GaroHills Hills – IWMP | West   Hills -                          | С         | Gully     | 40   | 2500-4000 | 10.3 |
|            |                   |                      |                         |         |                        |                          |                        | Garorinis                               | Garorinis |           | Sub  | total     |      |
|            |                   |                      |                         |         | Wind e                 | rosion                   | Nil                    | Nil                                     | Nil       |           |      |           |      |

**2.5 Climate:** The area in the foothills or low lying areas and mid-slopes are hot in summer and cold 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. | Name of   | Name of the Agro-                                  |          |                 |               |                                      |                 |                              |            |                 |  | Area (in | Area (in  |            |                               | Area (in     | Area (in | Names of | Names of | Major soil types |  | Average annual rainfall in mm | Major cro | ops |
| No. | State     | climatic<br>zone                                   | ha)      | the districts   | the Projects  | a)<br>Type                           | b) Area<br>(ha) | (preceding 5 years' average) | a)<br>Name | b) Area<br>(ha) |  |          |   |            |                               |              |          |          |          |                  |  |                               |           |     |
|     |           | and Ha Hills IWMP - v moderately deep, excessively |          |                 | Betel nut     | 10.00                                |                 |                              |            |                 |  |          |   |            |                               |              |          |          |          |                  |  |                               |           |     |
|     |           |  | Southern |                 |               |                                      |                 | opes 344.80<br>and Ha        |            | West Garo       | loamy soil on moderately steep side slopes of hills having loamy |          |   | Betel leaf | 5.00                          |              |          |          |          |                  |  |                               |           |     |
|     |           |  |          | Slopes   344.80 | Slopes and Ha | Slopes and Ha                        | lopes 344.80 Ha |                              |            |                 |  |          |   | Bay leaf   | 2.50                          |              |          |          |          |                  |  |                               |           |     |
| 1   | Meghalaya |  | _        |                 |               |                                      |                 |                              |            |                 |  |          |   | Hills –    | and stoniness associated with | 344.80<br>Ha | 9000 mm  | Ginger   | 15.37    |                  |  |                               |           |     |
|     |           |  |          |                 |               |                                      |                 |                              |            |                 | 11113  | IWMP – v | moderately deep, excessively drained, coarse loamy soils on | 114        | ,                             | Chilli       | 6.00     |          |          |                  |  |                               |           |     |
|     |           |  |          |                 |               | gently sloping hill tops with severe |                 |                              | Squash     | 3.50            |  |          |   |            |                               |              |          |          |          |                  |  |                               |           |     |
|     |           |  |          |                 |               | erosion hazard and slight stoniness  |                 |                              |            |                 |  |          |   |            |                               |              |          |          |          |                  |  |                               |           |     |
|     |           |  |          |                 |               |                                      |                 | Total                        |            | 42.37 Ha        |  |          |   |            |                               |              |          |          |          |                  |  |                               |           |     |

**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 1-2 years. The principal agricultural crops grown of the jhum fields are paddy, ginger, millet, maize, yam and vegetables. Fruit crops are well suited in the lower reaches which include orange, pineapple, jackfruit, litchi. The slopes of the Kera 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

| Crops      | Area<br>(ha) | Average Yield (Qtl) per ha. | Total Production (Qtl.) |
|------------|--------------|-----------------------------|-------------------------|
| Ginger     | 60           | 40                          | 2400                    |
| Millet     | 20           | 10                          | 200                     |
| Squash     | 25           | 20                          | 500                     |
| Yam        | 30           | 25                          | 750                     |
| Chilli     | 40           | 40                          | 1600                    |
| Tapioca    | 30           | 30                          | 900                     |
| Betel nut  | 60           | 30                          | 1800                    |
| Betel leaf | 10           | 10                          | 100                     |
| Bay Leaf   | 15           | 15                          | 225                     |

**2.7 Natural Vegetation:** The tree species common to the watershed area includes - *Terminaliaspp. Schima walichii. 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 poor road communication, primitive way of agricultural practices like jhumming and the difficult terrain of the area.

<u>Demographic Status</u>: The total households in the watershed project is 115 with a total population of 538, of which 274 are male and 264 are female.

#### Infrastructure facilities:

- 2.1.1 *Roads:* The Project Area is connected by a seasonal road. The Project area depends entirely on the kutcha road connected either to Aguragre or Waribokgre.
- 2.1.2 *School*: there are only 2(two) L.P School within the Project Area run by the state Government.
- 2.1.3 *Electricity*: Ther is no connection and the village is yet to have electricity
- 2.1.4 *Health*: Ther is no Health Centre nearby and the entire local population have to either depends on facilities available at Asanang P.H.C. or Tura.
- 2.1.5 *Water Supply*: There is no Drinking water supply provided by the PHE Deptt.. 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 Jengjal. However, the main market where the people sell their produce is at Jengjal and Rongram

Table 2.5: Infrastructure Status.

| 1                  | 2                              |        | 3  |                             | 4   |      |        |
|--------------------|--------------------------------|--------|--|-----------------------------|-----|------|--------|
| Name of District   | Name of<br>Project             |        | Parameters:  | Status                      |     |      |        |
| West Garo<br>Hills | West Garo<br>Hills –<br>IWMP V | (i)    | No. of villages connected to the main road by an all-weather road.             | All villages a from the mor |     |      | alking |
|                    |                                | (ii)   | No. of village provided with electricity                                       | nil                         |     |      |        |
|                    |                                | (iii)  | No. of households without access to drinking water                             | 10 nos.                     |     |      |        |
|                    |                                | (iv)   | No. of educational institutions:   | (P)                         | (S) | (HS) | (VI)   |
|                    |                                |        | Primary (P)/ Secondary (S)/ Higher Secondary (HS)/ Vocational institution (VI) | 2 No.                       | -   | -    | -      |
|                    |                                | (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   | (U)                         | (S) | (PA) | (O)    |
|                    |                                |        | (e.g. Union (U)/ Society (S)/ Private agency (PA)/ Others (O))                 | Nil                         | Nil | Nil  | Nil    |
|                    |                                | (xiii) | No. of villages with access to Aganwadi Centres                                | 1 No.                       |     |      |        |
|                    |                                | (xiv)  | Any other facilities with no. of villages (please specify)                     | Nil                         |     |      |        |

**2.9 Livestock:** there are only 4 kinds of livestock farming being farmed in the area viz. Piggery, Poultry, cattle and Goatery.

**Table 2.6: Existing livestock population** 

| Type of Animal | Population |
|----------------|------------|
| Piggery        | 74         |
| Poultry        | 641        |
| Cattle         | 169        |
| Goatery        | 12         |

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

**Table 2.7: Land Holding:** 

| 1                   | 2         | 3               | 4          | 5          |                   | 6       |          |  |
|---------------------|-----------|-----------------|------------|------------|-------------------|---------|----------|--|
| Name of Name of the |           | Types of Farmer | No. of     | No. of BPL | Land holding (ha) |         |          |  |
| District            | Project   | 71              | households | households | Irrigated         | Rainfed | Total    |  |
|                     |           | (i) Large       | -          | -          |                   |         |          |  |
| West                | West Garo | (ii) Small      | -          | -          |                   |         |          |  |
| Garo                | Hills –   | (iii) Marginal  | 103        | 107        | -                 | 26.50Ha | 26.50 Ha |  |
| Hills               | IWMP V    | (iv) Landless   | 12         | 8          | -                 | -       | -        |  |
|                     |           | Sub - Total     | 115        | 115        |                   | 26.50Ha | 26.50 Ha |  |

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

| 1                 | 2           | 3                    |   | 4                      | 1   |                       |                                   |                        | 5   |                       |
|-------------------|-------------|----------------------|---|------------------------|-----|-----------------------|-----------------------------------|------------------------|-----|-----------------------|
| Name of           | Name of the | CPR                  | Total Area (ha)<br>Area owned/ In possession of |                        |     |                       | Area available for treatment (ha) |                        |     |                       |
| District Projects |             | Particulars          | Pvt.<br>Person                                  | Govt. (specify deptt.) | PRI | Any other (Community) | Pvt.<br>Person                    | Govt. (specify deptt.) | PRI | Any other (Community) |
| West              | West Garo   |                      |   |                        |     |                       |                                   |                        |     |                       |
| Garo              | Hills –     | Horticulture         | 30.09   | -                      | ı   | -                     | 5.50                              | -                      | -   | -                     |
| Hills             | IWMP V      | Agri Kharif          | 42.37   | =                      | ı   | =                     | 7.50                              | -                      | -   | -                     |
|                   |             | Current jhum         | 21.49   | =                      | ı   | =                     | ı                                 | -                      | -   | 21.49                 |
|                   |             | Tree Clad open- area | 125.85  | -                      | -   | 125.00                | -                                 | -                      | -   | 215.51                |
|                   |             |                      |   |                        |     |                       |                                   |                        |     |                       |
|                   |             |                      |   |                        |     |                       |                                   |                        |     |                       |
|                   |             | Total                | 219.80<br>Ha                                    | -                      |     | 125.00 Ha             | 13. 00<br>Ha                      | -                      | -   | 237.00 На             |

**2.11 Land use and land cover :** As per the land use land cover map generated, the Watershed area has been broadly classified into the following land uses

a) Horticulture plantation = 30.09 Ha
b) Agri – kharif = 42.37 Ha
c) Current jhum = 21.49 Ha
d) Tree clad Area-open = 250.85 Ha
Total = 344.80 Ha

2.12 Problems of the Area: The primary problems of the area is jhumming. Majority of the population depends on Jhum Cultivation for their livelihood. Vast tracks of Jhum areas are abandoned 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 is jhum 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 problems 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) <u>Base Line Survey</u>: 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) <u>Participatory Rural Appraisal</u>: To further obtain information on the project area, the people, resources, various PRA techniques like resource mapping, social mapping, seasonal calendars, matrix ranking, 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. 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 |
| A.     | Planning  |  |
|        | Cluster approach  | Yes  |
|        | Whether technical back-stopping for the project has been arranged? If yes, mention the name of the Institute. | Yes  |
|        | 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)  | Yes |
|    | SLNA and DoLR  | 103 |
|    | 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 | No  |
|    | for high speed soil nutrient analysis  |     |
|    | Normalized difference vegetation index (NDVI)#                                       | Yes |
|    | Weather Stations   | No  |
| В. | Inputs   |     |
|    | 1. Bio-pesticides  | No  |
|    | 2. Organic manures   | Yes |
|    | 3. Vermi-compost   | No  |
|    | 4. Bio-fertilizer  | No  |
|    | 5. Water saving devices  | Yes |
|    | 6. Mechanized tools/ implements  | No  |
|    | 7. Bio-fencing   | Yes |
|    | 8. Nutrient budgeting  | Yes |
|    | 9. Automatic water level recorders & sediment samplers                               | Yes |
|    | Any other (please specify)   | -   |

#### 3.2 Project Implementing Agency:

The PIA is the Soil & Water Conservation Territorial Division, Tura, West garo 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 |                       |   |  |  |
|                    |                             | (i)            | Type of organization# | Government                                    |  |  |
|                    |                             | (ii)           | Name of organization  | Soil & Water Conservation (T) Division, Tura  |  |  |
|                    | West Garo Hills –<br>IWMP V | (iii)          | Designation & Address | Divisional Soil & Water Conservation Officer, |  |  |
| West Garo Hills    |                             |                |                       | Tura  |  |  |
|                    |                             | (iv)           | Telephone             | 03651 - 222352                                |  |  |
|                    |                             | (v)            | Fax                   | Do  |  |  |
|                    |                             | (vi)           | E-mail                |   |  |  |

#### 3.3 Institution Building

#### i) Watershed Committee (WC)

The Watershed Committee of the Chinamgija IWMP II was constituted with the active involvement of the villagers with strong support of the Traditional Institutions (Village Council). The Chinamgija Watershed Committee has been registered under the Society Registration Act 1860.

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

| 1                         | 2                      | 3               | 4  | 5               | 6    | 7  | 8  | 9  | 10 | 11 | 12        | 13 | 14  | 15 | 16        | 17                                    | 18                      |
|---------------------------|------------------------|-----------------|--|-----------------|------|----|----|----|----|----|-----------|----|-----|----|-----------|---------------------------------------|-------------------------|
| Names of<br>the Districts | Names of projects      | Names of<br>WCs | Date of<br>Registration as a<br>Society (dd/mm/<br>yyyy) | Designa<br>tion | M/F  | SC | ST | SF | MF | LF | Land-less | UG | SHG | GP | Any other | Educa-<br>tional<br>ualify-<br>cation | Function/s<br>assigned# |
|                           |                        |                 |  | President       | M    | -  | ST |    |    |    |           |    |     |    |           | Cl – X                                | A to I                  |
| West Garo                 | West Garo              | GI.             |  | Secretary       | M    | •  | ST |    |    |    |           |    |     |    |           | B.E                                   | A to I                  |
| Hills                     | Hills                  | Chinamgi        |  | Member          | 10 M | -  | ST |    |    |    |           |    |     |    |           | CI III                                | Do                      |
| District                  | District –<br>IWMP – V | Jа              |  | Member          | 4 F  | -  | ST |    |    |    |           |    |     |    |           | Cl – VI                               | Do                      |
|                           |                        |                 |  | Member          |      |    |    |    |    |    |           | •  |     |    |           | •                                     |                         |

| A. | PNP and PRA | B. | Planning |
|----|-------------|----|----------|
|    |             |    |          |

- Planning
  Signing of cheques and making payments C. Maintenance of Accounts D.
- E. Supervision of construction activities **Cost Estimation** F.
- Record of labour employed Verification & Measurement G. H.
- Social Audit Any other (please specify). J. I.

#### 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                 | Names of         |               | l no. of reg    | istered S | SHGs  | No. o  | of mer | nbers |       |   |   | S/ST in egory |   |   | PL in egory |
| of the<br>Districts   | projects         | With only Men | With only Women | With both | Total | Categories                                     | M      | F     | Total | M | F | Total         | M | F | Total       |
| West<br>Garo<br>Hills | WGH<br>IWMP<br>V | -             | -               | -         | -     | (i) Landless<br>(ii) SF<br>(iii) MF<br>(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  | Names of |     | Total     | no. of Ugs |       | No.         | of mei | nbers |       |   | SC/S' | T in each |   | of BPL i<br>categor |       |
| Districts | Projects | Men | Wom<br>en | 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 mancia | i ixs. III laki  | -)             |
|------------|---------------|--------------------|-----------------------------------|--------------------------------|--|----------------|----------------------|-----------|------------------|----------------|
| 1          | 2             | 3                  | 4                                 | 5                              | 6  | 7              | 8                    | 9         | 10               | 11             |
| Sl.<br>No. | State         | District           | Names of<br>Project               | Amount<br>earmarked<br>for EPA | Entry Point<br>Activities planned                                    | Estimated cost | Expenditure incurred | Balance   | Expected outcome | Actual outcome |
| 1          | Megh<br>alaya | West Garo<br>Hills | West<br>Garo<br>Hills –<br>IWMP V | 1.5 Lakhs                      | Construction of Spring Chamber/Water Tanks  Construction of Ringwell | 1.20<br>0.30   | 1.5                  | -         | -                | -ppp           |

# ii) Other activities of Preparatory Phase:

| 1                     | 2                                    | 3   | 4                    | 5                     | 6                                    | 7                          | 8                                       | 9                               | 10                        | 11                    | 12                                  | 13                          |
|-----------------------|--------------------------------------|---|----------------------|-----------------------|--------------------------------------|----------------------------|---|---------------------------------|---------------------------|-----------------------|-------------------------------------|-----------------------------|
| District              | Name<br>of<br>Projects               | Initiation<br>of village<br>level<br>institution                                      | Capacity<br>building | IEC<br>activi<br>ties | Baseline<br>survey                   | Hydro - geolog ical survey | Identifyin g technical support agencies | Resour<br>ce<br>agree-<br>ments | Preparat<br>ion of<br>DPR | Evaluatio<br>n of DPR | Any<br>other<br>(please<br>specify) | Cost incurred (Rs. In lakh) |
| West<br>Garo<br>Hills | West<br>Garo<br>Hills –<br>IWMP<br>V | 1 no. W/C<br>6 nos. Sub<br>Watershed<br>Committee<br>at each<br>benefiting<br>village | 3 nos.               | 2 nos.                | Participatory<br>Rural<br>Appraisals | N.A                        | Done                                    | Done                            | Done                      | Done                  | ı                                   | -                           |

#### 4.2 Watershed Works Phase:

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

| 1            | 2                  | 3                     | 4                    | 5  |    | 6                             |                             |      |                          |                             |                                     |           |                                  | 7                            |                                     |           |                                  |  |                       |
|--------------|--------------------|-----------------------|----------------------|--|----|-------------------------------|-----------------------------|------|--------------------------|-----------------------------|-------------------------------------|-----------|----------------------------------|------------------------------|-------------------------------------|-----------|----------------------------------|--|-----------------------|
|              |                    |                       |                      |  |    | Pre Proje                     | ect                         |      |                          |                             |                                     |           | Propo                            | sed Projec                   | t                                   |           |                                  |  |                       |
| S            | Nam                | Name                  |                      |  |    |                               |                             | Augn |                          | repair of actures           | existing                            | Cor       | nstruction                       | of new str                   | ıctures                             |           | Tota                             | l target   |                       |
| 1.<br>N<br>o | e of<br>State<br>s | of<br>Distri<br>cts   | Name of<br>Projects  | Type of structures                         | No | Area<br>irriga<br>ted<br>(ha) | Stora<br>ge<br>capac<br>ity | No   | Area to be treate d (ha) | Storag<br>e<br>capaci<br>ty | Estimat<br>ed cost<br>(in<br>lakhs) | No        | Area<br>to be<br>treated<br>(ha) | Storage capacit y (per unit) | Estimate<br>d cost<br>(in<br>lakhs) | No        | Area<br>to be<br>treated<br>(ha) | Storag<br>e<br>capaci<br>ty<br>(m <sup>3</sup> ) | Estima<br>ted<br>cost |
| 1            |                    |                       |                      | (i) Spring                                 | -  | -                             | -                           | -    | -                        | -                           | -                                   | 3 nos.    | -                                | 25 m <sup>3</sup>            | 1.50                                | 3<br>nos. | -                                | 75   | 1.50                  |
|              |                    |                       |                      |  |    |                               |                             |      |                          |                             |                                     |           |                                  |                              |                                     |           |                                  |  |                       |
|              |                    |                       |                      | (iii) Lake                                 | -  | -                             | -                           | -    | -                        | -                           | -                                   | -         | -                                | -                            | -                                   | -         |                                  | -  |                       |
|              | 3.5                |                       | West<br>Garo         |  |    |                               |                             |      |                          |                             |                                     |           |                                  |                              |                                     |           |                                  |  |                       |
|              | Meg<br>hala<br>ya  | West<br>Garo<br>Hills | Hills –<br>IWMP<br>V | (v)<br>Percolatio<br>n Tank                | -  | -                             | -                           | -    | -                        | -                           | -                                   | -         | -                                | -                            | -                                   | -         | -                                | -  | -                     |
|              | ya                 | 111115                | ,                    | (vi)<br>Channel                            | -  | -                             | -                           | -    | -                        | -                           | -                                   | -         | -                                | -                            | -                                   | -         | -                                | -  | -                     |
|              |                    |                       |                      | (vii) Any<br>others<br>(please<br>specify) |    |                               |                             |      |                          |                             |                                     |           |                                  |                              |                                     |           |                                  |  |                       |
|              |                    |                       | Total                |  |    |                               |                             |      |                          |                             |                                     | 3<br>nos. | -                                | 25 m <sup>3</sup>            | 1.50                                | 3 nos.    | -                                | 75   | 1.50                  |

|      |                      |                   |   |    |                           | 8                   |  |                           |                  |                    | 9   | 10  |
|------|----------------------|-------------------|---|----|---------------------------|---------------------|--|---------------------------|------------------|--------------------|---|---|
|      |                      |                   |   |    |                           |                     |  |                           |                  |                    |   |   |
| Augm |                      | repair of actures | existing                                  | Co | nstruction                | of new stru         | ıctures                                | Тс                        | otal achievem    | nent               | Change in<br>storage<br>capacity<br>(col 8-6) | Change<br>in<br>irrigated<br>area<br>(ha)<br>Col. (8-<br>6) |
| No   | Area irrigate d (ha) | Storage capacity  | Expenditu<br>re<br>incurred<br>(in lakhs) | No | Area<br>irrigated<br>(ha) | Storage<br>capacity | Expenditur<br>e incurred<br>(in lakhs) | Area<br>irrigated<br>(ha) | Storage capacity | Estimated incurred |   | -   |
|      |                      |                   |   |    |                           |                     |  |                           |                  |                    |   |   |

# **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          |     |   |                    | Propo | osed targ                           | et                  |                                    |          |     |                          | Achi                             | ieveme | nt due to                   | project                          |           |                              |                                   |
| ;<br>N | S. Names of o. States | OI        | Names<br>of | Type of structures                     | No. | Area<br>irrigated |     | entation/ r<br>ting recha<br>structures | rging              |       | struction<br>arging st              | of new<br>cructures | Total                              | target   |     | entation/ resting rechar |                                  |        | struction o<br>arging stru  |                                  | Total ach | ievement                     | Change in irrigated area (Col. 8- |
|        |                       | Districts | projects    |  |     | (ha)              | No. | Area to<br>be<br>irrigated<br>(ha)      | Estimat<br>ed cost | No.   | Area to<br>be<br>irrigate<br>d (ha) | Estimate            | Area to<br>be<br>irrigated<br>(ha) | Estimate | No. | irrigated                | Expen<br>di-ture<br>incurre<br>d | No     | Area irri-<br>gated<br>(ha) | Expen<br>di-ture<br>incurre<br>d | gated     | Expendi<br>-ture<br>incurred |                                   |
|        |                       |           |             | (i)Open wells                          |     |                   |     |   |                    |       |                                     |                     |                                    |          |     |                          |                                  |        |                             |                                  |           |                              |                                   |
|        |                       |           |             | (ii)Bore wells                         |     | -                 |     |   |                    |       |                                     |                     |                                    |          |     |                          |                                  |        | -                           |                                  | -         |                              |                                   |
|        |                       |           |             | (iii)Any<br>others<br>(Pl.<br>specify) |     | Nil               |     | Nil                                     |                    |       | Nil                                 |                     | Nil                                |          |     | Nil                      |                                  |        | Nil                         |                                  | Nil       |                              |                                   |
|        |                       |           |             | Total for the project                  |     |                   |     |   |                    |       |                                     |                     |                                    |          |     |                          |                                  |        |                             |                                  |           |                              |                                   |

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

|                    | 2                              |         |                  |               | 3              |            |          |                       |
|--------------------|--------------------------------|---------|------------------|---------------|----------------|------------|----------|-----------------------|
|                    |                                | Ma      | jor activities o | of the UGs –  | Γargets        |            |          |                       |
| Names of           | Names of                       |         | Structure/ ac    | tivity propos | ed             | No. of UGs | Estimate | Amount of WDF         |
| Districts          | Projects                       | Sl. No. | Туре             | No.#          | Treatment (ha) | involved   | d Cost   | to be collected (Rs.) |
| West<br>Garo Hills | West Garo<br>Hills –<br>IWMP V |         |                  |               |                |            |          |                       |

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

|            |          |           |                       | 4                 |                |        |       |    |                 |
|------------|----------|-----------|-----------------------|-------------------|----------------|--------|-------|----|-----------------|
|            |          |           | Major a               | activities of the | UGs – Achieve  | ements |       |    |                 |
|            | Structur | re/ activ | ity                   | No. of UGs        | Expenditure    | No. of | manda | ys | Amount of WDF   |
| Sl.<br>No. | Type     | No.#      | Treated<br>Area (ha.) |                   | incurred (Rs.) | SC     | ST    | F  | collected (Rs.) |
|            |          |           |                       |                   |                |        |       |    |                 |
|            |          |           |                       |                   |                |        |       |    |                 |
|            |          |           |                       |                   |                |        |       |    |                 |

# $\textbf{4.2.5} \ \textbf{Activities} \ \textbf{related} \ \textbf{to} \ \textbf{livelihoods} \ \textbf{by} \ \textbf{Self Help Groups} \ (\textbf{SHGs}) \ \textbf{in} \ \textbf{the project areas:}$

| 1                      | 2       |                  | 3                        |   |
|------------------------|---------|------------------|--------------------------|---|
|                        |         | Ma               | jor activities of the SI | HGs   |
|                        |         | Name of activity | No. of SHGs involved     | Average annual income from activity per SHG |
| Names of the Districts |         |                  |                          |   |
|                        |         |                  |                          |   |
|                        |         |                  |                          |   |
| West Garo Hills        | IWMP \V |                  |                          |   |
|                        |         |                  |                          |   |

# **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                    | Total as                       | sistance re<br>(Amoun | ceived by t<br>t in Rs.) | he SHG                  | Total annual           | Total                      |   |    | SHGs<br>d as | Total<br>Amount of                      | NI C                        |
| SHGs<br>given<br>training | Loan from<br>revolving<br>fund | Training              | Material                 | Others<br>(pl. specify) | Income generated (Rs.) | annual<br>Savings<br>(Rs.) | I | II | III          | loan<br>sanctioned<br>by the<br>bank(s) | No. of<br>SHGs<br>federated |
|                           |                                |                       |                          |                         |                        |                            |   |    |              |   |                             |
|                           |                                |                       |                          |                         |                        |                            |   |    |              |   |                             |

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

| 1        | 2                       | 3              |       |           | 1   | 5   | 5                   |     | 6                          |     | 7                      |     | 8                      |     |                     | 10    |                                | 11  |                            | 12  |   | 13    |  |
|----------|-------------------------|----------------|-------|-----------|---|-----|---------------------|-----|----------------------------|-----|------------------------|-----|------------------------|-----|---------------------|-------|--------------------------------|-----|----------------------------|-----|---|-------|--|
| District | Names<br>of<br>projects | treatment trea |       |           | rainage line Nursery<br>treatment raising |     | Land<br>development |     | Crop<br>demonstra<br>tions |     | Pasture<br>development |     | Veterinary<br>services |     | Fishery development |       | Non-<br>conventional<br>energy |     | Any other (please specify) |     | Total cost<br>incurred<br>(Rs. In<br>lakhs) |       |  |
|          |                         | (a)            | (b)   | (a)       | (b)                                       | (a) | (b)                 | (a) | (b)                        | (a) | (b)                    | (a) | (b)                    | (a) | (b)                 | (a)   | (b)                            | (a) | (b)                        | (a) | (b)   | ,     |  |
| WG<br>H  | IWMP<br>V               | 11.25<br>Ha    | 1.125 | 135<br>Ha | 27.5<br>0                                 | -   | -                   | -   | -                          | -   | -                      | -   | -                      | -   | -                   | 12.00 | 2.00                           | -   | -                          | -   | -   | 27.50 |  |

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

| 1                | 2 | 3                  |                       | 4                                   |                              | 5            |      |           | 6                |                               |     |                              |  |             | 8                          |                              |                            |  |           |    |                                 |   |
|------------------|---|--------------------|-----------------------|-------------------------------------|------------------------------|--------------|------|-----------|------------------|-------------------------------|-----|------------------------------|--|-------------|----------------------------|------------------------------|----------------------------|--|-----------|----|---------------------------------|---|
|                  |   |                    | Type of treatment     |                                     |                              | Type of land |      |           | Executing agency |                               |     | get                          |  | Achievement |                            |                              |                            |  |           |    |                                 |   |
| District Project |   | Name of structures | (i) Ridge<br>area (R) | (ii)<br>geDrainage<br>) line<br>(D) | (iii)<br>Land<br>Dev.<br>(L) | (i) Private  | Com- | (cnocify) | (iii) Others     | No. of units (No./ cum./ rmt) | (R  | Estimated cost (Rs. in lakh) |  | h)          | month & year of completion | No. of units (No./cu.m./rmt) | inits incurred (Rs. in lak |  | ed<br>akh | -/ | Status<br>of<br>comple-<br>tion | Actual<br>month &<br>year of<br>completion<br>(mm/yyyy) |
|                  |   |                    |                       |                                     |                              |              |      |           |                  | TIIIt)                        |     |                              |  |             |                            | 11111)                       |                            |  |           |    |                                 | (IIIIII/yyyy)   |
|                  |   |                    |                       |                                     |                              |              |      |           |                  |                               |     |                              |  |             |                            |                              |                            |  |           |    |                                 |   |
|                  |   | Dug out Pond       |                       | D                                   |                              | 1            |      |           | Indiv.           | 4                             |     | 2.0                          |  | 2           | 3 yrs                      |                              |                            |  |           |    |                                 |   |
|                  |   | Bench terracing    | -                     | D                                   | -                            | $\sqrt{}$    | -    | 1         | Indiv.           |                               |     | 0.2                          |  | 0.2         | 3 yrs                      |                              |                            |  |           |    |                                 |   |
|                  |   | Irri. Dam          |                       | D                                   |                              | $\sqrt{}$    |      |           | UG               | 4                             | 6   | 4.0                          |  | 10          | 3 Yrs                      |                              |                            |  |           |    |                                 |   |
|                  |   | W/H Farm Pond      |                       | D                                   |                              | $\sqrt{}$    |      |           | Indiv.           | 4                             | 6   | 4.0                          |  | 10          | 3 yrs                      |                              |                            |  |           |    |                                 |   |
|                  |   | Prot. Wall         |                       | D                                   |                              | $\sqrt{}$    |      |           | UG               | 4                             | 1.2 | 0.8                          |  | 2           | 3 yrs                      |                              |                            |  |           |    |                                 |   |
|                  |   | C.C. Channel       |                       | D                                   |                              | $\checkmark$ |      |           | UG               | 2                             | 0.6 | 0.4                          |  | 1           | 3 yrs                      |                              |                            |  |           |    |                                 |   |
|                  |   |                    |                       |                                     |                              |              |      |           |                  |                               |     |                              |  |             |                            |                              |                            |  |           |    |                                 |   |
|                  |   |                    |                       |                                     |                              |              |      |           |                  |                               |     |                              |  |             |                            |                              |                            |  | Ш         |    |                                 |   |
|                  |   |                    |                       |                                     |                              |              |      |           |                  |                               |     |                              |  |             |                            |                              |                            |  |           |    |                                 |   |

Contd.

# 4.2.9 Details of engineering structures in watershed works.

|                |                  |                 |                 |                      |                 |                 | 9               |    |      |                 |          |       |                      |          |        |       |       |  |  |
|----------------|------------------|-----------------|-----------------|----------------------|-----------------|-----------------|-----------------|----|------|-----------------|----------|-------|----------------------|----------|--------|-------|-------|--|--|
|                | Outcomes         |                 |                 |                      |                 |                 |                 |    |      |                 |          |       |                      |          |        |       |       |  |  |
| Reduction in   | Area<br>treated# | Water le        | evel (m)        | Production (quintal) |                 | Income (Rs.)    |                 |    | Ma   | andays g        | enerated |       | No. of beneficiaries |          |        |       |       |  |  |
|                |                  |                 |                 |                      |                 |                 |                 |    |      | 0.1             |          |       |                      |          |        |       |       |  |  |
| run off (cu.m) | (ha)             | Pre-<br>project | Post<br>project | Pre-<br>project      | Post<br>project | Pre-<br>project | Post<br>project | SC | ST   | Others<br>(Men) | Women    | Total | SC                   | ST       | Others | Women | Total |  |  |
| -              | 65.00            | -               | -               | -                    | -               | -               | -               | -  | 100% | 6840            | 4560     | 11400 | =                    | 100<br>% | 45     | 25    | 70    |  |  |
|                |                  |                 |                 |                      |                 |                 |                 |    |      |                 |          |       |                      |          |        |       |       |  |  |

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

| 1            | 2           | 3                       |                             | 4 5                              |  |                    | 5 |  | 6  |              |               | 7                                      |  | 8            |                         |                                    |   |  |  |
|--------------|-------------|-------------------------|-----------------------------|----------------------------------|--|--------------------|---|--|--|--------------|---------------|--|--|--------------|-------------------------|------------------------------------|---|--|--|
|              |             |                         | Type of treatment           |                                  |  | Type of land       |   |  | Executing agency                                   |              | -             | Γarget                                 |  | Achievement  |                         |                                    |   |  |  |
| Dist<br>rict | Pro<br>ject | Name of structure/ work | (i)<br>Ridge<br>area<br>(R) | (ii)<br>Draina<br>ge line<br>(D) |  | (i)<br>Priv<br>ate |   | (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 plants | Estimat<br>ed cost<br>(Rs. in<br>lakh) | Expecte<br>d month<br>& year<br>of<br>comple-<br>tion<br>(mm/<br>yyyy) | Area<br>(ha) | No.<br>of<br>plant<br>s | Expenditure incurred (Rs. in lakh) | Actual<br>month &<br>year of<br>comple-tion<br>(mm/ yyyy) |  |  |
|              |             | Afforestation           |                             |                                  |  |                    |   |  |  | 10.00        | 3375          | 0.86                                   | 3 yrs  |              |                         |                                    |   |  |  |
|              | -           |                         |                             |                                  |  |                    |   |  |  |              |               |  |  |              |                         |                                    |   |  |  |
|              |             |                         |                             |                                  |  |                    |   |  |  |              |               |  |  |              |                         |                                    |   |  |  |

<sup>#</sup> 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        |          |       |    |    |             |            |       |
|--------------|---------|---------|---------|---------|----|------|----------|----------|-------|----|----|-------------|------------|-------|
|              |         |         |         |         |    |      | Outcon   | nes      |       |    |    |             |            |       |
| Reduction in | Produ   | ction   | Inco    | me      |    | Ma   | andays g | enerated |       |    | 1  | No. of bene | eficiaries |       |
| run off      | (quir   | ntal)   | (R      | s.)     |    |      | Othe     |          |       |    |    |             |            |       |
| (cu.m)       | Pre-    | Post    | Pre-    | Post    | SC | ST   | rs       | Women    | Total | SC | ST | Others      | Women      | Total |
|              | project | project | project | project |    |      |          |          |       |    |    |             |            |       |
| _            | -       | -       | -       | -       | -  | 100% | 516      | 344      | 860   |    |    |             |            |       |
|              |         |         |         |         |    |      |          |          |       |    |    |             |            |       |
|              |         |         |         |         |    |      |          |          |       |    |    |             |            |       |
|              |         |         |         |         |    |      |          |          |       |    |    |             |            |       |
|              |         |         |         |         |    |      |          |          |       |    |    |             |            |       |
|              |         |         |         |         |    |      |          |          |       |    |    |             |            |       |
|              |         |         |         |         |    |      |          |          |       |    |    |             |            |       |
|              |         |         |         |         |    |      |          |          |       |    |    |             |            |       |
|              |         |         |         |         |    |      |          |          |       |    |    |             |            |       |

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

| 1        | 2       | 3                 |                    | 4                     |                            | 5  |  | 6   | ,                                  | 7      |
|----------|---------|-------------------|--------------------|-----------------------|----------------------------|--|--|---|------------------------------------|--------|
|          |         |                   |                    | Type of               | fland                      | Executing agency                                   |  | Target  | Achie                              | vement |
| District | Project | Name of activity@ | (i)<br>Priv<br>ate | (ii)<br>Commu<br>nity | (iii) Others<br>(landless) | (i) UG<br>(ii)SHG<br>(iii) Others<br>(pl. specify) | Estimate<br>d cost<br>(Rs. in<br>lakh) | Expected month & year of completion (mm/yyyy) | Expenditure incurred (Rs. in lakh) | -      |
|          |         | Carpentry         |                    |                       | 5 units                    | SHG's<br>/Individual                               | 17500                                  | 3 yrs.  |                                    |        |
|          | Chinam  | Tailoring         |                    |                       | 4 units                    | Do   | 2.00                                   | 3 yrs.  |                                    |        |
| West     | gija    |                   |                    |                       |                            |  |  |   |                                    |        |
| Garo     | gija    |                   |                    |                       |                            |  |  |   |                                    |        |
| Hills    | IWMP    |                   |                    |                       |                            |  |  |   |                                    | -      |
|          | V       |                   |                    |                       |                            |  |  |   |                                    |        |
|          |         |                   |                    |                       |                            |  |  |   |                                    |        |
|          |         |                   |                    |                       |                            |  |  |   |                                    |        |
|          |         |                   |                    |                       |                            |  |  |   |                                    |        |

(Contd.)

<sup>\*</sup> 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

<sup>@</sup>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        |       |    |    |             |            |       |
|--------------|-----------------|----|--------|-----------|----------|-------|----|----|-------------|------------|-------|
|              |                 |    |        | Out       | comes    |       |    |    |             |            |       |
| Income (Rs.) |                 |    |        | Mandays g | enerated |       |    | 1  | No. of bene | eficiaries |       |
| Pre-project  | Post<br>project | SC | S<br>T | Others    | Women    | Total | SC | ST | Others      | Women      | Total |
|              |                 |    |        |           |          |       |    |    |             |            |       |

# 4.3 Consolidation and withdrawal phase

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

| 1                      | 2                       | 3                       | 4                | 5                            |                                | 6                     |                            |                           |                              |                 | 7                       |    |                 |   |                 |
|------------------------|-------------------------|-------------------------|------------------|------------------------------|--------------------------------|-----------------------|----------------------------|---------------------------|------------------------------|-----------------|-------------------------|----|-----------------|---|-----------------|
|                        |                         |                         |                  |                              |                                | Tar                   | get                        |                           |                              | A               | chievemen               | t  |                 |   |                 |
| Names of the Districts | Names<br>of<br>projects | Name(s) of the villages | CPR<br>particula | Activity proposed            | Target area under the activity | Estimated expenditure | Expected no. of beneficia- | Estimated contribution to | Area<br>treated<br>under the | Expenditu<br>re | Actual no. of benefici- |    | lo. of<br>inday | s | WDF<br>collecte |
|                        | projects                |                         | rs               |                              | (ha)                           | (Rs.)                 | ries                       | WDF (Rs.)                 | activity<br>(ha)             | incurred (Rs.)  | aries                   | SC | ST              | F | d (Rs.)         |
|                        |                         | Gondenggre              |                  | Maint. &<br>Repair of<br>CPR | -                              | 0.875                 | -                          | 0.875                     | -                            | -               | -                       | -  | -               |   | 0.875           |
|                        |                         |                         |                  |                              |                                |                       |                            |                           |                              |                 |                         |    |                 |   |                 |
|                        |                         |                         |                  |                              |                                |                       |                            |                           |                              |                 |                         |    |                 |   |                 |
|                        |                         |                         |                  |                              |                                |                       |                            |                           |                              |                 |                         |    |                 |   |                 |
|                        |                         |                         |                  |                              |                                |                       |                            |                           |                              |                 |                         |    |                 |   |                 |

# CHAPTER V PROJECT PHASING & BUDGETING

#### CHAPTER V

#### **PROJECT PHASING & BUDGETING**

#### ACTION PLAN OF CHINAMGIJA MICRO WATRSHED ( IWMP ) UNDER TERRITORIAL DIVISION, TURA.

Name of District : West Garo Hills

No. of villages Covered: 1 no.

Name of C. & R. D. Block: Rongram

Project Area: 250.00 Ha.

( Figures in lakh)

| 1   | 2   | 3              | 4    | 5       | 6     | 7        | 8     | 9     | 10    | 11     | 12   | 13   | 14     |
|-----|---|----------------|------|---------|-------|----------|-------|-------|-------|--------|------|------|--------|
|     |   | I st Y         | r.   | II nd Y | r.    | III rd Y | r.    | IV th |       | V th Y |      |      |        |
| SI. |   | (6%)           |      | (14%)   |       | (50%)    |       | (25%) |       | (5%)   |      | Tota | l 100% |
| No. | Activities  | Phy.           | Fin. | Phy.    | Fin.  | Phy.     | Fin.  | Phy.  | Fin.  | Phy.   | Fin. | Phy. | Fin.   |
| ı   | <u>Management Cost</u> :  |                |      |         |       |          |       |       |       |        |      |      |        |
| Α   | Administrative Cost : 10 %  | -              | -    | 2%      | 0.75  | 5%       | 1.875 | 3%    | 1.125 | -      | -    | 10%  | 3.75   |
|     | i) Honorarium of 1 WDT Member @ Rs.4000/- per month                       | -              | -    | -       | 0.08  | -        | 0.48  | -     | 0.24  | -      | -    | -    | 0.80   |
|     | ii)Honorarium of watershed Committee Chairman                             |                |      |         |       |          |       |       |       |        |      |      |        |
|     | @ Rs. 250/- per month<br>iii) Honorarium of WCM @ Rs.100/- per member per | -              | -    | -       | 0.03  | -        | 0.03  | -     | 0.03  | -      | -    | -    | 0.09   |
|     | month   | -              | -    | -       | 0.108 | -        | 0.108 | -     | 0.108 | -      |      | -    | 0.324  |
|     | iv) Honorarium of Chartered Accountant                                    | -              | -    | -       | 0.08  | -        | 0.10  | -     | 0.10  | -      | -    | -    | 0.28   |
|     | v) TA/DA of Field Asst. @ Rs.2500/- per month                             | -              | -    | -       | 0.15  | -        | 0.30  | -     | 0.15  | -      | -    | -    | 0.60   |
|     | vi) Hiring Charges of Office Building @ Rs.500/- per month                | -              | -    | -       | 0.06  | -        | 0.06  | -     | 0.06  | -      | -    | -    | 0.18   |
|     | vii) Hiring Charges of Vehicles @ Rs.2500/- per month                     | -              | -    | -       | 0.15  | -        | 0.30  | -     | 0.30  | -      | -    | -    | 0.75   |
|     | viii)Office expenses, POL, Stationeries, Printing of SHG books,           |                |      |         |       |          |       |       |       |        |      |      |        |
|     | pamphlets, tea & snacks, cost of camera etc.                              | -              | -    | -       | 0.092 | -        | 0.497 | -     | 0.137 | -      | -    | -    | 0.726  |
|     | Total Of 'A'  |                |      | 2%      | 0.75  | 5%       | 1.875 | 3%    | 1.125 |        |      | 10%  | 3.75   |
|     | Preparatory Phase :   |                |      |         |       |          |       |       |       |        |      |      |        |
| В   | Entry Point Activities ; 4 %  | <b>4%</b><br>2 | 1.50 |         |       |          |       |       |       |        |      | 4%   | 1.50   |
|     | i) Construction of Spring Chamber @ Rs. 60000/- per no.                   | nos.<br>1      | 1.20 | -       | -     | -        | -     | -     | -     | -      | -    | 2    | 1.20   |
|     | ii) Construction of Ringwell @ Rs.30000/- per no.                         | nos.           | 0.30 | -       | -     | -        | -     | -     | -     | -      | -    | 1    | 0.30   |
|     | Total of 'B'  | 4%             | 1.50 |         |       |          |       |       |       |        |      | 4%   | 1.50   |

...C.O...

|    |  |    | 1     |       | 1      |            |        |       |        |    |    |            |       |
|----|--|----|-------|-------|--------|------------|--------|-------|--------|----|----|------------|-------|
| 1  | 2  | 3  | 4     | 5     | 6      | 7          | 8      | 9     | 10     | 11 | 12 | 13         | 14    |
| с. | Institution & Capacity Building ; 5 %          | 1% | 0.375 | 2%    | 0.75   | 1%         | 0.375  | 1%    | 0.375  |    |    | 5%         | 1.875 |
|    | i) Awareness Campaign                          | -  | 0.10  | -     | 0.10   | -          | 0.075  | -     | 0.10   | -  | -  | -          | 0.30  |
|    | ii) Exposure visits off-campus                 | -  | -     | -     | 0.25   | -          | 0.15   | -     | 0.175  | -  | -  | -          | 0.475 |
|    | iii)Capacity Building of SHGs/UGs              | -  | 0.10  | -     | 0.20   | -          | 0.10   | -     | 0.10   | -  | -  | -          | 0.70  |
|    | iv) Capacity Building of WC members            | -  | 0.075 | -     | 0.20   | -          | 0.05   | -     | -      | -  | -  | -          | 0.30  |
|    | v) Capacity Building of WDT/W Volunteer        | -  | 0.10  | -     | -      | -          | -      | -     | -      | -  | -  | -          | 0.10  |
|    | Total of 'C'                                   | 1% | 0.375 | 2%    | 0.75   | 1%         | 0.375  | 1%    | 0.375  |    |    | 5%         | 1.875 |
| D. | Detail Project Report (DPR) - 1%               | 1% | 0.375 |       |        |            |        |       |        |    |    | 1%         | 0.375 |
|    | i) Cost of Resources Inventories works         | -  | 0.125 | -     | -      | -          | -      | -     | -      | -  | -  | -          | 0.125 |
|    | ii) Cost of PRA                                | -  | 0.05  | -     | -      | -          | -      | -     | -      | -  | -  | -          | 0.05  |
|    | iii) Cost of Land use survey                   | -  | 0.125 | -     | -      | -          | -      | -     | -      | -  | -  | -          | 0.125 |
|    | iv) Cost of formulating                        | -  | 0.075 | -     | -      | -          | -      | -     | -      | -  | -  | -          | 0.075 |
|    | Total of 'D'                                   | 1% | 0.375 |       |        |            |        |       |        |    |    | 1%         | 0.375 |
| E. | i) Monitoring - 1%                             | -  | -     | -     | 0.075  | -          | 0.1875 | -     | 0.1125 | -  | -  | 1%         | 0.375 |
|    |  |    |       | 0.2%  | 0.075  | 0.5%       | 0.1875 | 0.3%  | 0.1125 |    |    | 1%         | 0.375 |
| F. | ii) Evaluation - 1%                            | -  | -     | -     | 0.1125 | -          | 0.1875 | -     | -      | -  | -  | 1%         | 0.375 |
|    | Total of 'E'                                   |    |       | 0.3%  | 0.1125 | 0.5%       | 0.1875 | 0.2%  | 0.075  |    |    | 1%         | 0.375 |
|    | Total of <b>I ( A to F )</b>                   | 6% | 2.25  | 4.5%  | 1.6875 | 7%         | 2.625  | 4.5%  | 1.6875 |    |    | 22%        | 8.25  |
| II | Watershed Works Phase: 50 %                    |    |       | 7.50% | 2.8125 | <i>35%</i> | 13.125 | 7.50% | 2.8125 |    |    | <i>50%</i> | 18.75 |
| A. | Arable Land Treatment :                        |    |       |       |        |            |        |       |        |    |    |            |       |
|    | iii) Terracing - @ Rs.20000/- ha.              | -  | -     | 3     | 0.60   | -          | -      | 1     | 0.20   | -  | -  | 3          | 0.80  |
|    | Total of 'A'                                   |    |       |       | 0.60   |            |        |       | 0.20   |    |    |            | 0.80  |
| В. | Non-Arable Land Treatment :                    |    |       |       |        |            |        |       |        |    |    |            |       |
|    | i) Afforestation - Prelim. @ Rs.1300/- per ha. | -  | -     | 10    | 0.13   | -          | -      | -     | -      |    |    |            | 0.13  |
|    | 1st year Planting @ Rs.4600/- per Ha.          | -  | -     | -     | 0.46   | -          |        | -     | -      | -  | -  |            | 0.46  |
|    | 2nd year Planting @ Rs. 2700/- per Ha.         | -  | -     | -     | -      | -          | 0.27   | -     | -      | -  | -  |            | 0.27  |
|    | ii)Rubber pltn Pelim. @ Rs.1300/-per ha.       | -  | -     | 10    | 0.13   | -          | -      | -     | -      | -  | -  |            | 0.13  |
|    | 1st year Planting @ Rs.4600/- per Ha.          | -  | -     |       | 0.46   | -          | -      | -     | -      | -  | -  |            | 0.46  |
|    | 2 nd year Planting @ Rs. 2700/- per ha.        | -  | -     | -     | -      | -          | 0.27   | -     | -      | -  | -  |            | 0.27  |
|    |  |    |       |       | 1.18   |            | 0.54   |       |        |    |    |            | 1.72  |

|     |  |   | 1 |      |        | 1 1        |        | 1      |        |   |   |     |              |
|-----|--|---|---|------|--------|------------|--------|--------|--------|---|---|-----|--------------|
|     |  |   |   |      |        |            |        |        |        |   |   |     |              |
| С.  | Drainage Line Treatment :                        |   |   |      |        |            |        |        |        |   |   |     |              |
|     | i) C.C. Irrigation Dam                           | - | - | -    | -      | 2          | 5.00   | 1      | 2.50   | - | - |     | 7.50         |
|     | ii) W/H Farm Pond                                | - | - | -    | -      | 2          | 5.00   | -      | -      | - | - |     | 5.00         |
|     | iii) Dug out-cum-Fishery Pond                    | - | - | 1    | 0.992  | 1          | 0.992  | -      | -      | - | - |     | 1.98         |
|     | iv) Protection Wall                              | - | - | -    | -      | 3          | 1.50   | -      | -      | - | - |     | 1.50         |
|     | v) Earthen Irrigation Channel @ Rs.50/-per R/m   | - | - | -    | -      | 265.00     | 0.1325 | 225.00 | 0.1125 | - | - |     | 0.25         |
|     | Total of 'C'                                     |   |   |      | 0.9525 |            | 12.625 |        | 2.6125 |   |   |     | 16.23        |
|     | Total of <b>ii</b> (A to C)                      |   |   | 7.5% | 2.8125 | <i>35%</i> | 13.125 | 7.5%   | 2.8125 |   |   | 50% | 18.75        |
| III | Livelihood Activities for Assetless Person - 10% |   |   | 1%   | 0.375  | 3%         | 1.125  | 6%     | 2.25   |   |   | 10% | <i>3.7</i> 5 |
|     | i) Kitchen Garden @ Rs.2500/- per unit           | - | - | 3    | 0.075  | 5          | 0.125  | 2      | 0.05   | - | - |     | 0.25         |
|     | ii) Pisciculture @ Rs. 10000/- per unit          | - | - | 3    | 0.30   | 1          | 0.10   | 3      | 0.30   | - | - |     | 0.70         |
|     | iii)Carpentry @ Rs. 5000/- per unit              | - | - | -    | -      | 2          | 0.10   | 6      | 0.30   |   |   |     | 0.40         |
|     | iv) Tailoring @ Rs. 8000/- per unit              | - | - | -    | -      | 5          | 0.40   | 10     | 0.80   |   |   |     | 1.20         |
|     | v) Poultry/Piggery @ 8000/- per unit             | _ | - | -    | -      | 5          | 0.40   | 10     | 0.80   |   |   |     | 1.20         |
|     | Total of <b>III</b>                              |   |   | 1%   | 0.375  | 3%         | 1.125  | 6%     | 2.25   |   |   | 10% | 3.75         |
| IV  | Production System & Micro Enterprises - 13%      |   |   | 1%   | 0.375  | 5%         | 1.875  | 7%     | 2.625  |   |   | 13% | 4.875        |
|     | i) Grocery @ Rs. 30000/- per unit                | - | - |      | 0.30   |            | 0.90   |        | 0.90   |   |   |     | 2.10         |
|     | ii)Weaving @ Rs. 30000/- per unit                | - | - |      | -      |            | 0.90   |        | 1.20   |   |   |     | 2.10         |
|     | iii)Basket Making @ Rs.2500/- per unit           | - | - |      | 0.075  |            | 0.075  |        | 0.025  |   |   |     | 0.175        |
|     | iv) Rice Mill @ Rs. 50000/- per unit             | - | - |      | -      |            |        |        | 0.50   |   |   |     | 0.50         |
|     | Total of IV                                      |   |   | 1%   | 0.375  | 5%         | 1.875  | 7%     | 2.625  |   |   | 13% | 4.875        |

1

| V <u>Consolidation &amp; withdrawal Phase - 5 %</u>        |    |      |     |       |            |        |            |             | 5% | 1.875 | 5%   | 1.875        |
|--|----|------|-----|-------|------------|--------|------------|-------------|----|-------|------|--------------|
| i) Repairing & maintenance of CPR's                        | -  | -    | -   | -     | -          | -      | -          | -           | -  | 0.875 | -    | 0.875        |
| ii) Improving the sustainability of various intervention   | -  | -    | -   | -     | -          | -      | -          | -           | -  | 0.50  | -    | 0.50         |
| iii)Documentation of successful experience and preparation |    |      |     |       |            |        |            |             |    |       |      |              |
| of Completion Report.                                      | -  | -    | -   | -     | -          | -      | -          | -           | -  | 0.50  | -    | 0.50         |
| Total of V   |    |      |     |       |            |        |            |             | 5% | 1.875 | 5%   | 1.875        |
| Grand Total  |    |      |     |       |            |        |            |             |    |       |      |              |
| (1+11+III+IV+V)  | 6% | 2.25 | 14% | 13.50 | <i>50%</i> | 12.375 | <b>25%</b> | <i>7.50</i> | 5% | 1.875 | 100% | <i>37.50</i> |

Deputy Commissioner,
West Garo Hills, Tura
Meghalaya.

Divisional Officer,
Soil & Water Conservation (T) Division.
West Garo Hills.

#### VILLAGEWISE ACTION PLAN OF CHINAMGIJA MICRO WATERSHED UNDER IWMP - V TERRITORIAL DIVISION : TURA .

Name of District: West Garo Hills

No. of village: 1 no.

Name of C.& R.D. Block: Rongram

Project Area: 250.00 Ha.

| SI. |   | Gone | denggre |      |      | Tota |       |
|-----|---|------|---------|------|------|------|-------|
| No. | Activities                                      | Phy. | Fin.    | Phy. | Fin. | Phy. | Fin.  |
| 1   | 2   | 3    | 4       | 5    | 6    | 7    | 8     |
| A.  | Arable Land Treatment :                         |      |         |      |      |      |       |
|     | i) Rubber Plantation @ Rs. 8600/- per Ha.       | 10   | 0.86    |      |      | 10   | 0.86  |
|     | ii) Terracing @ Rs.20000/- per Ha.              | 3    | 0.80    |      |      | 3    | 0.80  |
| В.  | Non-arable Land Treatment :                     |      |         |      |      |      |       |
|     | i) Afforestation @ Rs. 10100/- per Ha.          |      |         |      |      |      |       |
|     |   | 10   | 1.001   |      |      | 10   | 1.001 |
| с.  | <u>Drainage Line Treatment :</u>                |      |         |      |      |      |       |
|     | i) Irrigation Dam @ Rs. 250000/- per no.        | 3    | 7.50    |      |      | 3    | 7.50  |
|     | ii) W/H Farm Pond @ Rs. 250000/- per no.        | 2    | 5.00    |      |      | 2    | 5.00  |
|     | iii) Dug out Pond @ Rs. 50000/- per no.         | 2    | 1.90    |      |      | 2    | 1.90  |
|     | iv) Protection Wall @ Rs. 50000/- per no.       | 5    | 1.50    |      |      | 5    | 1.50  |
|     | v) Earthen Irrigation Channel @ 50/- per R/ m   | 2    | 0.25    |      |      | 2    | 0.25  |
| III | Livelihood Activities for Assetless Household : |      |         |      |      |      |       |
|     | i)Kitchen Garden @ 2500/-                       | 10   | 0.25    |      |      | 10   | 0.25  |
|     | ii)Pisciculture @ 10000/-                       | 7    | 0.7     |      |      | 7    | 0.7   |
|     | iii)Carpentry @ 5000/-                          | 8    | 0.40    |      |      | 8    | 0.40  |
|     | Tailoring @ 8000/-                              | 15   | 1.2     |      |      | 15   | 1.2   |
|     | Piggery/Poultry @ 8000/-                        | 15   | 1.2     |      |      | 15   | 1.2   |
| IV  | Production System and Micro Enterprises :       |      |         |      |      |      |       |
|     | i) Grocery @ 30000/-                            | 7    | 2.10    |      |      | 7    | 2.10  |
|     | ii) Weaving @ 30000/-                           | 7    | 2.10    |      |      | 7    | 2.10  |
|     | iii)Basket Making @ 2500/-                      | 7    | 0.175   |      |      | 7    | 0.175 |
|     | iv)Rice Mill @ 50000/-                          | 1    | 0.5     |      |      | 1    | 0.5   |

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

| 1 | 1      | 2             | 3                     | 4                                    | 5                   | (           | 5           | 7              | 8                          | 9  |  |             | 10                         |                       |             |                       | 11                       |                       |             |
|---|--------|---------------|-----------------------|--------------------------------------|---------------------|-------------|-------------|----------------|----------------------------|--|--|-------------|----------------------------|-----------------------|-------------|-----------------------|--------------------------|-----------------------|-------------|
| S |        | Name of State | Name<br>of<br>Distric | Names<br>of                          | Year<br>of<br>sanct | dura        | mm/         | Area of<br>the | Project<br>cost<br>(Rs. In | Names of<br>Micro<br>watersheds &<br>Code nos. (as | A  | Area (ha) d | of the project             | ts                    |             |                       | ea details<br>within the | (ha)                  |             |
| C | N<br>O |               | ts                    | Projects                             | ion                 | From        | То          | projects       | lakh)                      | per DoLR's<br>unique<br>codification)              |  |             |                            |                       |             | (8                    |                          | Freguen               |             |
|   |        |               |                       |                                      |                     |             |             |                |                            |  | Cultiva ted ted Uncultivated rainfed irrigate area d area  Cultiva ted Uncultivated wasteland a) |             |                            | Pvt.<br>Agri.<br>Land | Forest land | Comm<br>unity<br>land | Others (pl. specify)     | Total<br>area<br>(ha) |             |
|   |        |               |                       |                                      |                     |             |             |                |                            |  |  |             | a)<br>Tempora<br>ry fallow | b) Per<br>manent      |             |                       |                          |                       |             |
| 1 | 1 ]    | Meghalaya     | West<br>Garo<br>Hills | West<br>Garo<br>Hills –<br>IWMP<br>V | 2011<br>-12         | 2011-<br>12 | 2015<br>-16 | 250.0<br>Ha    | 37.50L<br>akhs             | Chinamgija<br>s(Lower<br>Reaches) –                | 42.37<br>Ha  | -           | 30.37                      | -                     |             | 150.8<br>5            | 20.00                    | 6.41                  | 250.0<br>Ha |

# Fund provision for the IWMP projects from all sources:

| 1                     | 2                                    | 3                | 3              |                      |                   |                                 |                                | 4          |                                |        |                                    |          |                                 | 5     |
|-----------------------|--------------------------------------|------------------|----------------|----------------------|-------------------|---------------------------------|--------------------------------|------------|--------------------------------|--------|------------------------------------|----------|---------------------------------|-------|
|                       | Name                                 |                  |                |                      |                   | Funds                           | from other s                   | sources in | n addition to                  | IWMP f | unds                               |          |                                 |       |
| Distri<br>ct          | of<br>Project<br>s                   | IWMP             | ' Fund         |                      | rgence<br>nds     | P                               | PPP                            | Com        | nmunity                        |        | utional<br>nnce                    |          | ers (Pl. ecify)                 | Total |
|                       |                                      | Central<br>Share | State<br>Share | Name<br>of<br>Scheme | Amount<br>(Lakhs) | Name<br>of<br>private<br>sector | Financial<br>contri-<br>bution | Name       | Financial<br>contri-<br>bution | Name   | Financi<br>al<br>contri-<br>bution | Nam<br>e | Financia<br>l contri-<br>bution |       |
| West<br>Garo<br>Hills | West<br>Garo<br>Hills –<br>IWMP<br>V | 33.75<br>lakh    | 3.75<br>lakh   | NREGS                | 11.50             | Nil                             | Nil                            | Nil        | Nil                            | Nil    | Nil                                | Nil      | Nil                             | 49.00 |

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

| 1          | 2                     | 3                       | 4                                    |  | 5   |   |  |  |  | 6  |  |   |
|------------|-----------------------|-------------------------|--------------------------------------|--|---|---|--|--|--|--|--|---|
|            |                       |                         |                                      | Distt.   | Agency's Proj   | ect Account of                                      | details  |  | Watershed Com  | mittee (WC)  | account detail                                     | ls:   |
| S1.<br>No. | Names<br>of<br>States | Name<br>of<br>Districts | Names<br>of<br>Projects              | Name of<br>the Bank<br>and Branch<br>where<br>project<br>account<br>has been<br>opened | Account<br>Number<br>(to be<br>obtained<br>confiden-<br>tially) | Account<br>type<br>(Savings/<br>Current/<br>Others) | Name & Designatio n of authorized persons who operate the account. | Name of<br>Watershed<br>Committee        | Name of the<br>Bank and<br>Branch<br>where project<br>account has<br>been opened | Account<br>number<br>(to be<br>obtained<br>confiden-<br>tially | Account<br>type<br>(Savings/<br>current<br>others) | Name & Designation of authorized persons who operate the account. |
| 1          | Megha<br>laya         | West<br>Garo<br>Hills   | West<br>Garo<br>Hills –<br>IWMP<br>V | State Bank<br>of India,<br>Tura  |   | Saving  | Shri S.Ch.<br>Sangma,<br>DS&WCO                                    | Chinamgij<br>a<br>Watershed<br>Committee | Axis Bank,<br>Tura   | 9110100<br>0628913<br>7  | Saving   | Chairman<br>W.C,<br>Secretary<br>W.C.                             |

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

|            | 1          | 2                 | 3  | 4  | 5  | 6  | 7   |
|------------|------------|-------------------|--|--|--|--|---|
| Sl.<br>No. | District   | Names of projects | Names of<br>Departments<br>with Schemes<br>converging<br>with IWMP | Fund made<br>available to<br>IWMP due to<br>convergence<br>(Rs. in lakh) | Name of activity/task/structure undertaken with converged funds  (a) Structures (b) livelihoods (c) Any other (pl. specify)# | Reference no. of activity/ task/ structure in DPR <sup>@</sup> | Level at<br>which<br>decision for<br>convergence<br>was taken <sup>\$</sup> |
| 1          | West       | West<br>Garo      | * Community Rural Development Department NREGS                     | 11.50  | C.C. Irrigation Dam<br>Rubber Plantation   | -  | Block Level<br>& District   |
| 2          | Garo Hills | Hills –<br>IWMP V | * PHE<br>Department<br>TSC   | n.a  |  | -  | Level   |

**Note:** 

(i) Gondenggre Wages – 4.60; Material – 6.90; C.C. Irrigation Dam Rubber Plantation.

#### Public-Private Partnership in the IWMP projects: NIL

| 1        | 2                           | 3                                      | 4        |                        |                            | 5    | 6              | 7                            | 8                    | 9                  |          |
|----------|-----------------------------|--|----------|------------------------|----------------------------|------|----------------|------------------------------|----------------------|--------------------|----------|
|          | Name of Type of agreement s |  | t signed | Financial contribution |                            |      |                |                              |                      |                    |          |
| District | Name<br>of<br>project       | Private<br>Sector<br>Partner<br>Agency | a)MoU    | b)Contract             | c) Any other (pl. specify) | IWMP | Private sector | Partnership<br>Interventions | Expected<br>Outcomes | Actual<br>Outcomes | Comments |
|          |                             |  |          | •                      |                            |      |                |                              |                      |                    |          |
|          |                             |  |          |                        |                            |      |                |                              |                      |                    |          |

<sup>\*</sup> 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 under PPP; from Column no. 5, total no. of private companies/ agencies, from column no. 7, total amounts may be mentioned at the end of the table for the entire country.

# 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.<br>No | State    | Name of<br>the<br>Training<br>Institute | Full Address<br>with contact<br>no., website<br>& e-mail | Name &<br>Designati<br>on of the<br>Head of<br>Institute | Type of Institute# | Area(s) of specialization\$                       | Accreditation details | Reference<br>Year | No. of<br>trainings<br>assigned |   | No. of trainings conducted | No. of trainees trained |
| 1        |          | NIRD<br>(NER)                           | Guwahati   | Director   | Central<br>Govt.   | Remote Sensing, Rural Devt.                       | NA                    | -                 |                                 |   |                            |                         |
| 2        |          | SIRD                                    | Nongsder   | Director   | State Govt.        | Capacity Building                                 | NA                    | -                 |                                 |   |                            |                         |
| 3        | alaya    | RRTC                                    | Umran  | Director   | Don-Bosco          | Agri-Horti, Animal<br>Husbandry, Entrepreneurship | NA                    |                   |                                 |   |                            |                         |
| 4        | Meghalay | ICAR                                    | Umiam  | Director   | Central<br>Govt.   | Do  | NA                    |                   |                                 |   |                            |                         |
| 5        |          | VTC                                     | Kyrdem Kulai   | Director   | State Govt.        | Animal Husbandry                                  | NA                    |                   |                                 |   |                            |                         |
| 6        |          | Fruit<br>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)
- <sup>®</sup> 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  $\underline{2009 - 10}$  as on  $\underline{31/03/2010}$  (dd/mm/yyyy)\*

| 1            | 2          | 3              | 4                             | 5                             |         | 6                             |         | 7                          |
|--------------|------------|----------------|-------------------------------|-------------------------------|---------|-------------------------------|---------|----------------------------|
| Project      | Total no.  | No. of persons | No. of persons to be trained  | No. of persons trained during |         | f funding for<br>aining       |         | s utilized<br>akhs)        |
| Stakeholders | of persons | trained so far | during current financial year | current financial<br>year     | a) DoLR | b) Any other<br>(Pl. specify) | a) DoLR | b) Any other (Pl. specify) |
| SLNA         | 100 Nos.   | -              | 100 Nos.                      | -                             |         |                               |         |                            |
| DRDA/ZP cell | 5 Nos.     | -              | 5 Nos.                        | -                             |         |                               |         |                            |
| PIAs         | 2 Nos.     | -              | 2 Nos.                        | -                             |         |                               |         |                            |
| WDTs         | 10 Nos.    | -              | 10 Nos.                       | -                             |         |                               |         |                            |
| UGs          | 5 Nos.     | -              | 5 Nos.                        | -                             | 0.75    | -                             | 0.75    | -                          |
| SHGs         | 30 Nos.    | -              | 30 Nos.                       | -                             |         |                               |         |                            |
| WCs          | 16 Nos.    | -              | 16 Nos.                       | -                             |         |                               |         |                            |
| GPs          | 5 Nos.     | -              | 5 Nos.                        | -                             |         |                               |         |                            |
| Community    | 100 Nos.   | -              | 100 Nos.                      | -                             |         |                               |         |                            |
| Others       |            |                |                               |                               |         |                               |         |                            |
| Pl. specify) |            |                |                               |                               |         |                               |         |                            |

Table 6.3: Information, Education & Communication (IEC) activities for the year 2011-12 as on 31/03/11 (dd/mm/yyy)\*

|    | 1                 | 2                 | 3                           | 4                          | 5  |
|----|-------------------|-------------------|-----------------------------|----------------------------|--|
|    | Activity          | Executing agency  | Estimated expenditure (Rs.) | Expenditure incurred (Rs.) | Outcome<br>(may quantity, wherever possible) |
| 1. | Awareness         | S&WC (T) Division | 0.30                        | 0.30                       |  |
| 2. | PRA Exercises     | S&WC (T) Division | 0.05                        | 0.05                       |  |
| 3. | Exposure Visits   | S&WC (T) Division | 0.475                       | 0.475                      |  |
| 4. | Capacity Building | S&WC (T) Division | 1.10                        | 1.10                       |  |
|    |                   |                   |                             |                            |  |
|    |                   |                   |                             |                            |  |

# CHAPTER VII EXPECTED OUTCOME

# CHAPTER VII EXPECTED OUTCOME

**Table 7.1 Employment related outcomes:** 

|    |                           | 1  |                 |        |       |       |                      |       |        | 2     |                      |    |       |        |       |       |
|----|---------------------------|----|-----------------|--------|-------|-------|----------------------|-------|--------|-------|----------------------|----|-------|--------|-------|-------|
| Sl | Name of                   |    | Wage employment |        |       |       |                      |       |        |       | Self employment      |    |       |        |       |       |
| No | No Village No. of mandays |    |                 |        | lays  |       | No. of beneficiaries |       |        |       | No. of beneficiaries |    |       |        |       |       |
|    |                           | SC | ST              | Others | Women | Total | SC                   | ST    | Others | Women | Total                | SC | ST    | Others | Women | Total |
| 1. | Gondenggre                | 1  | 100 %           | 3500   | 2500  | 6000  | -                    | 100 % | 80     | 35    | 115                  | 1  | 100 % | 2      | 1     | 3     |

**Table 7.2 Migration Details:** 

| 1                         | 2                    | 3               | 4                              | 5  | 6                                      | 7  | 8                                 | 9   | 1             | .0  |
|---------------------------|----------------------|-----------------|--------------------------------|--|--|--|-----------------------------------|---|---------------|---|
| Names of<br>the Districts | Names of<br>Projects | Name of village | No. of<br>persons<br>migrating | No. of<br>days per<br>year of<br>migration | Major<br>reason(s)<br>for<br>migrating | Distance of<br>destination<br>of migration<br>from the<br>village (km) | Occupation<br>during<br>migration | Income<br>from such<br>occupation<br>(Rs. in<br>lakh) | identify majo | d migration<br>or activities of<br>esponsible<br>(b)<br>Livelihoods |
|                           |                      |                 |                                | N  | I                                      | L  |                                   |   |               |   |

<sup>\*</sup> 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 form 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                         | 2                       |                            | 3  | 4                      |
|------------|-------------------------|---------------------------|-------------------------|----------------------------|--|------------------------|
| Wa         | Wages                   |                           | ning                    | Liv                        | velihoods  |                        |
| Woman days | Amount<br>(Rs. in lakh) | No. of women participants | Amount<br>(Rs. in lakh) | No. of women beneficiaries | Value of assistance<br>provided<br>(Rs. in lakh) | Total<br>(Rs. in lakh) |
|            |                         |                           |                         |                            |  |                        |

<sup>\*</sup> 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                         | 2            | 3            | 4                    | 5         | 6                        |                                       |  | 7      |                    | 8 |
|---------------------------|--------------|--------------|----------------------|-----------|--------------------------|---------------------------------------|--|--------|--------------------|---|
| Names of the<br>Districts | Names of the | Names of the | Particular<br>of CPR | Nature of | Period of                | Beneficiary details (no. of families) |  | no. of | User Charges (Rs.) |   |
| Districts                 | projects     | villages     | OI CPK               | right     | right SC St Others Total |                                       |  |        | ( <b>K</b> S.)     |   |
|                           |              |              |                      |           |                          |                                       |  |        |                    |   |
| West Garo Hills           | WGH-IWMP-V   |              |                      |           |                          |                                       |  |        |                    |   |
| District                  |              |              |                      |           |                          |                                       |  |        |                    |   |
|                           |              |              |                      |           |                          |                                       |  |        |                    |   |
|                           |              |              |                      |           |                          |                                       |  |        |                    |   |
|                           |              |              |                      |           |                          |                                       |  |        |                    |   |

<sup>\*</sup> 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.

<sup>@</sup> 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                           |
| 0   | for any right oth | ner than indicated above (please specify           |

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<br>Districts       | Names of<br>Projects | Sources                  | Pre-Project level | Mid-term project<br>level | Post-Project level | Increase/decrease<br>(Col. 8 – Col. 6) | Remarks |
|                             |                      | Open wells               | -                 | -                         | -                  | -                                      | -       |
| West Garo Hills<br>District | WGH-IWMP V           | Bore wells               | -                 | -                         | -                  | -                                      | -       |
|                             |                      | Others (specify) Springs | very poor<br>poor | poor                      | Good               | Increased                              | -       |

<sup>\*</sup> 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, categorywise, 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                |                   |          |  |
|--------------------------|---------------------|--|------------------|------------------------|-----------------|------------------|-------------------|----------|--|
| District                 | Name of the preject | Availability of drinking water (no. of monyhs in a year) |                  |                        | Qualit          | Comments         |                   |          |  |
|                          | Name of the project | Pre-project  | Post-<br>project | Change in availability | Pre-<br>project | Post-<br>project | Change in quality | Comments |  |
| West Garo Hills District | WGH-IWMP V          | Insufficient   | Sufficient       | 10 – 12<br>months      | Moderate        | Improved         | Improved          | -        |  |
|                          |                     |  |                  |                        |                 |                  |                   |          |  |

<sup>\*</sup> 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   |                        |       |
|--------------------------|---------------------|--------------------|---|---|------------------------|-------|
|                          |                     |                    |   | Water savings in  | cu.m.                  |       |
| District                 | Name of the project | Name of major crop | through water<br>saving devices <sup>\$</sup> | through water<br>conserving agronomic<br>practices <sup>#</sup> | Any other (pl specify) | Total |
| West Garo Hills District | WGH-IWMP V          | Squash             | PVC pipes                                     | Vermi-compost, mulching   | -                      | -     |
| West Garo This District  | ,, on twith         |                    |   |   |                        |       |

<sup>\*</sup> 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, practicewise totals may be mentioned at the end of the table for the entire country.

Sprinkler, Drip, PVC pipe, etc.

\* Vermi-compost, organic manuring, Mulching, Check basin, Alternate furrow, Ridges & furrow & other scientific practices.

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

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

| 1                            | 2                   | 3             |      |                       |       | 4                          |      |                         |          |     |           | 5                           |      |                        |          |     |            | 6                         |       |                   |
|------------------------------|---------------------|---------------|------|-----------------------|-------|----------------------------|------|-------------------------|----------|-----|-----------|-----------------------------|------|------------------------|----------|-----|------------|---------------------------|-------|-------------------|
|                              |                     |               |      |                       | Pre-j | projec                     | t    |                         |          |     | Mi        | d-term                      | ı    |                        |          |     | P          | ost-pro                   | oject |                   |
| Names<br>of the<br>Districts | Name of<br>Projects | Name of crops |      | Area (ha) (Irri Rf. I |       | rage<br>eld<br>) per<br>a. | Proc | otal<br>duction<br>Qtl) | Ar<br>(h |     | Yi<br>pei | rage<br>eld<br>· ha<br>(tl) | Prod | otal<br>uction<br>(tl) | Ar<br>(h |     | Yie<br>per | rage<br>eld<br>ha<br>etl) |       | roduction<br>Qtl) |
|                              |                     |               | Irri | Rf.                   | Irri  | Rf.                        | Irri | Rf.                     | Irri     | Rf. | Irri      | Rf.                         | Irri | Rf.                    | Irri     | Rf. | Irri       | Rf.                       | Irri  | Rf.               |
|                              |                     | Millet        | -    | 20                    | -     | 10                         | -    | 200                     | 10       | 25  | 20        | 10                          | 200  | 250                    | 20       | 35  | 40         | 20                        | 800   | 700               |
|                              |                     | Yam           | -    | 25                    | -     | 22                         | -    | 550                     | 15       | 30  | 30        | 22                          | 450  | 660                    | 30       | 45  | 60         | 30                        | 1800  | 1350              |
| West                         |                     | Ginger        | -    | 40                    | -     | 28                         | -    | 1120                    | 20       | 45  | 35        | 28                          | 700  | 1260                   | 30       | 50  | 60         | 35                        | 1800  | 1750              |
| Garo                         | IWMP -              | Tapioca       | -    | 15                    | -     | 20                         | -    | 300                     | 10       | 20  | 30        | 20                          | 300  | 200                    | 20       | 30  | 50         | 30                        | 1000  | 900               |
| Hiils                        | I                   | Betel nut     | -    | 55                    | -     | 25                         | -    | 1375                    | 10       | 60  | 35        | 25                          | 350  | 1500                   | 20       | 70  | 50         | 30                        | 1000  | 2100              |
|                              |                     | Betel leaf    | -    | 15                    | -     | 10                         | -    | 150                     | 10       | 20  | 15        | 10                          | 150  | 200                    | 20       | 35  | 30         | 20                        | 600   | 700               |

<sup>\*</sup> 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 Rabi crop area and yield in the project areas:

| 1         | 2                  | 3                            | 4                      | 5                   |      |   | 6           | )            |      |                           |      |            |                          | 7     |                   |     |          |           | {                         | 3         |                   |       |
|-----------|--------------------|------------------------------|------------------------|---------------------|------|---|-------------|--------------|------|---------------------------|------|------------|--------------------------|-------|-------------------|-----|----------|-----------|---------------------------|-----------|-------------------|-------|
|           |                    |                              |                        |                     |      | rea Yield Pro<br>ha) (Qtl) per<br>ha. ( |             |              |      |                           |      |            | Mid-                     | -term |                   |     |          |           | Post-p                    | rojec     | t                 |       |
| Sl<br>No. | Names of<br>States | Names of<br>the<br>Districts | Name<br>of<br>Projects | Name<br>of<br>crops |      |   | Yi<br>(Qtl) | eld<br>) per | Proc | tal<br>lucti<br>n<br>(tl) |      | rea<br>1a) | Aver<br>Yic<br>per<br>(Q | ha    | To<br>Produ<br>(Q |     | Ar<br>(h | rea<br>a) | Aver<br>Yie<br>per<br>(Qt | eld<br>ha | To<br>Produ<br>(Q | ction |
|           |                    |                              |                        |                     | Irri | Rf.                                     | Irri        | Rf.          | Irri | Rf.                       | Irri | Rf.        | Irri                     | Rf.   | Irri              | Rf. | Irri     | Rf.       | Irri                      | Rf.       | Irri              | Rf.   |
|           | Meghalaya          | West                         | WGH-                   | Squash              | -    | -                                       | -           | -            | -    | -                         | 20   | -          | 15                       | -     | 300               | -   | 45       | -         | 30                        | -         | 1350              | -     |
|           | •                  | Garo Hills                   | IWMP                   | •                   |      |   |             |              |      |                           |      |            |                          |       |                   |     |          |           |                           |           |                   |       |
|           |                    | District                     | V                      |                     |      |   |             |              |      |                           |      |            |                          |       |                   |     |          |           |                           |           |                   |       |
|           |                    |                              |                        |                     |      |   |             |              |      |                           |      |            |                          |       |                   |     |          |           |                           |           |                   |       |
|           |                    |                              |                        |                     |      |   |             |              |      |                           |      |            |                          |       |                   |     |          |           |                           |           |                   |       |
|           |                    |                              |                        |                     |      |   |             |              |      |                           |      |            |                          |       |                   |     |          |           |                           |           |                   |       |

<sup>\*</sup> 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         | 2                  | 3                            | 4                      | 5                   |      |           | 6      |                            |                       |            |          |            | 7                        | ,         |                          |       |           |     | 8                        | }         |                    |       |
|-----------|--------------------|------------------------------|------------------------|---------------------|------|-----------|--------|----------------------------|-----------------------|------------|----------|------------|--------------------------|-----------|--------------------------|-------|-----------|-----|--------------------------|-----------|--------------------|-------|
|           |                    |                              |                        |                     |      |           | Pre-pi | roject                     |                       |            |          |            | Mid-                     | term      |                          |       |           | ]   | Post-p                   | roject    | t                  |       |
| Sl<br>No. | Names of<br>States | Names of<br>the<br>Districts | Name<br>of<br>Projects | Name<br>of<br>crops |      | rea<br>a) | Yi     | rage<br>eld<br>) per<br>a. | To<br>Prod<br>o<br>(Q | lucti<br>n |          | rea<br>ia) | Aver<br>Yie<br>per<br>(Q | eld<br>ha | Tot<br>Produ<br>n<br>(Qt | ıctio | Ar<br>(ha |     | Aver<br>Yie<br>per<br>(Q | eld<br>ha | Tot<br>Produ<br>(Q | ction |
|           |                    |                              |                        |                     | Irri | Rf.       | Irri   | Rf.                        | Irri                  | Rf.        | Irri     | Rf.        | Irri                     | Rf.       | Irri                     | Rf.   | Irri      | Rf. | Irri                     | Rf.       | Irri               | Rf.   |
|           | Meghalaya          | West<br>Garo Hills           | WGH-<br>IWMP           | squash              | -    | _         | -      | -                          | 1                     | 1          | 30<br>Ha | 1          | 20                       | 1         | 600                      | 1     | 100       | -   | 30                       | -         | 3000               | -     |
|           |                    | District                     | V                      |                     |      |           |        |                            |                       |            |          |            |                          |           |                          |       |           |     |                          |           |                    |       |
|           |                    |                              |                        |                     |      |           |        |                            |                       |            |          |            |                          |           |                          |       |           |     |                          |           |                    |       |
|           |                    |                              | Total                  |                     |      |           |        |                            |                       |            |          |            |                          |           |                          |       |           |     |                          |           |                    |       |
|           |                    |                              | for the                |                     |      |           |        |                            |                       |            |          |            |                          |           |                          |       |           |     |                          |           |                    |       |
|           |                    |                              | District               |                     |      |           |        |                            |                       |            |          |            |                          |           |                          |       |           |     |                          |           |                    |       |

<sup>\*</sup> 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                 | g area under fod  | lder (ha)                    |   | Achievement (ha)   |                                |
| District                 | Name of project | Duration of<br>Project | Source/Name<br>of report | Year of reference | Area already<br>under fodder | Area under<br>fodder<br>proposed to be<br>covered<br>through IWMP | Area under<br>fodder actually<br>covered through<br>IWMP | Change in area<br>under fodder |
| West Garo Hills District | WGH-IWMP<br>V   |                        |                          |                   |                              |   |  |                                |
|                          |                 |                        |                          |                   |                              |   |  |                                |

<sup>\*</sup> 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   |  |
|-----------------------------|-----------------|------------------------|--------------------------|----------------------|---|--|---|--|
|                             |                 |                        | Exist                    | ing area tree co     | ver (ha)  |  | Achievement (ha)  |  |
| District                    | Name of project | Duration of<br>Project | Source/Name<br>of report | Year of<br>reference | Area already<br>under<br>forest/vegetative<br>cover | Forest/vegetative<br>cover area<br>proposed to be<br>covered under<br>IWMP | Forest/vegetative<br>cover area<br>actually covered<br>under IWMP | Change in<br>forest/vegetative<br>cover area |
| West Garo<br>Hills District | WGH-<br>IWMP V  | 5 yrs                  | PRA                      | 2010                 | 250.85На  | 10 Ha  | 10.00 На  | 10 Ha  |

<sup>\*</sup> 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  |                                   |
|-----------------------------|-----------------|------------------------|--------------------------|-------------------|--|---|--|-----------------------------------|
|                             |                 |                        | Existing ar              | ea under hortic   | ulture (ha)                              |   | Achievement (ha)   |                                   |
| District                    | Name of project | Duration of<br>Project | Source/Name<br>of report | Year of reference | Area<br>already<br>under<br>horticulture | Area under horticulture proposed to be covered through IWMP | Area under<br>horticulture<br>actually covered<br>through IWMP | Change in area under horticulture |
| West Garo<br>Hills District | WGH-IWMP<br>V   | 5 yrs                  | PRA                      | 2010              | 30.09                                    | 10.00 Ha  | 10.00 Ha   | 10.00 Ha                          |
|                             |                 |                        |                          |                   |  |   |  |                                   |

<sup>\*</sup> 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  |                                      |
|-----------------------------|-----------------|------------------------|--------------------------|-------------------|-------------------------------------|--|--|--------------------------------------|
|                             |                 |                        | Existing a               | rea under fo      | odder (ha)                          | A  | chievement (ha)  |                                      |
| District                    | Name of project | Duration<br>of Project | Source/Name<br>of report | Year of reference | Area already<br>under fuel-<br>wood | Area under fuel-<br>wood proposed to<br>be covered under<br>IWMP | Area under fuel-<br>wood actually<br>covered under<br>IWMP | Change in<br>area under<br>fuel-wood |
| West Garo<br>Hills District | WGH-<br>IWMP V  | 5 yrs                  |                          |                   |                                     |  |  |                                      |
|                             |                 |                        |                          |                   |                                     |  |  |                                      |

<sup>\*</sup> 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   | Name of   | T 1            |     | Pre-proj | ect    |      | Mid-ter | m      |      | Post-proj | ect    | Dl      |
| Districts      | Projects  | Type of Animal | No. | Yield    | Income | No.  | Yield   | Income | No.  | Yield     | Income | Remarks |
|                |           |                |     |          |        |      |         |        |      |           |        |         |
| West Garo      | WGH-      | Piggery        | 74  | -        | 3.70   | 120  | -       | 6.60   | 250  | -         | 12.50  |         |
| Hills District | IWMP V    | Poultry        | 641 | -        | 2.25   | 900  | -       | 3.60   | 1300 | -         | 4.55   |         |
|                |           | Cattle         | 169 |          | 13.50  | 250  |         | 21.25  | 300  |           | 25.50  |         |
|                | Total for |                |     |          |        |      |         |        |      |           |        |         |
|                | all       |                | 884 | -        | 19.45  | 1270 | -       | 31.45  | 1850 | -         | 42.55  |         |
|                | projects  |                |     |          |        |      |         |        |      |           |        |         |
|                |           |                |     |          |        |      |         |        |      |           |        |         |
| Total for all  |           |                |     |          |        |      |         |        |      |           |        |         |
| Districts      |           |                |     |          |        |      |         |        |      |           |        |         |
|                |           |                |     |          |        |      |         |        |      |           |        |         |

<sup>\*</sup> 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                |                  |       |
|---------------|-------------|------------------|------------------------|-----------------|--------------------------|----------------------------|-------|------------------------------------|----|----------|------------|-----------|-----------|--------|-------|------------------|------------------|-------|
|               |             |                  | Fund<br>required       | Sou             | rces of f                | unding (F                  | Rs.)  | Actual<br>Expenditur               | No | o. of be | eneficia   | ries trai | ned       | No     | of be | neficia<br>activ | ries taki<br>ity | ng up |
| Distric<br>t  | Proj<br>ect | Name of activity | for the activity (Rs.) | Project<br>Fund | Benef<br>i<br>-<br>ciary | Others<br>(pl.<br>specify) | Total | e incurred<br>on activity<br>(Rs.) | SC | ST       | Othe<br>rs | Wome<br>n | Tota<br>l | S<br>C | ST    | Oth<br>ers       | Wome<br>n        | Total |
| West          | WG          |                  |                        |                 |                          |                            |       |                                    |    |          |            |           |           |        |       |                  |                  |       |
| Garo<br>Hills | H-<br>IW    |                  |                        |                 |                          |                            |       |                                    |    |          |            |           |           |        |       |                  |                  |       |
| District      | MP<br>V     |                  |                        |                 |                          |                            |       |                                    |    |          |            |           |           |        |       |                  |                  |       |

(Contd.)

<sup>\*</sup> 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            |
|-------------|---------------------------------|------------------|-------------|--------------------------|-------------|--------------------|---------------|
| _           | ons employed<br>in the activity | Annual increase  |             | Impact of liveliheration |             | ne<br>of backward- | Any other     |
| mun ectly i |                                 | in income due to | (No. of be  | eneficiaries)            | forward     | linkages           | information   |
| Total       | Grand Total<br>(8+9)            | activity (Rs.)   | Pre-project | Post-project             | Pre-project | Post-project       | (pl. Specify) |
|             |                                 |                  |             |                          |             |                    |               |
|             |                                 |                  |             |                          |             |                    |               |
|             |                                 |                  |             |                          |             |                    |               |
|             |                                 |                  |             |                          |             |                    |               |

Table 7.7.4 Details of other livelihoods created for farmers:

| 1                                 | 2                 | 3                | 4                               |                 |                    | 5                |        | 6                                |     |        | 7      |         |    |    | 8                |             |
|-----------------------------------|-------------------|------------------|---------------------------------|-----------------|--------------------|------------------|--------|----------------------------------|-----|--------|--------|---------|----|----|------------------|-------------|
|                                   |                   |                  | Fund required                   | Sour            |                    | nding (Rs<br>khs | s.) in | Actual<br>Expenditure            | No. | of far | mers 1 | trained | No |    | rmers<br>activit | taking<br>y |
| District                          | Project           | Name of activity | for the activity (Rs.) in lakhs | Project<br>Fund | Project Benefi Oth |                  | Total  | incurred on<br>activity<br>(Rs.) | SF  | MF     | LF     | Total   | SF | MF | LF               | Total       |
| West<br>Garo<br>Hills<br>District | WGH-<br>IWMP<br>V |                  |                                 |                 |                    |                  |        |                                  |     |        |        |         |    |    |                  |             |

<sup>\*</sup> 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 |                   | angang amulawad                  |                                  | Impact of livelih |  |              |                       |  |
|  |                   | Annual increase in income due to | Migration (No. of beneficiaries) |                   | Development of backward-<br>forward linkages |              | Any other information |  |
| Total  | Grand Total (8+9) | activity (Rs.)                   | Pre-project                      | Post-project      | Pre-project                                  | Post-project | (pl. Specify)         |  |
|  |                   |                                  |                                  |                   |  |              |                       |  |
|  |                   |                                  |                                  |                   |  |              |                       |  |
|  |                   |                                  |                                  |                   |  |              |                       |  |
|  |                   |                                  |                                  |                   |  |              |                       |  |

#### **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-<br>project<br>(no.) |
|          |         | (A) Backward linkages                   |                   |                          |                           |
| Wes Hit  | WGH-    | (i) Seed certification                  |                   |                          |                           |
| Garolls  | IWMP V  | (ii) Seed supply system                 |                   |                          |                           |
| District |         | (iii) Fertilizer supply system          |                   |                          |                           |
|          |         | (iv) Pesticide supply system            |                   |                          |                           |
|          |         | (v) Credit institutions                 |                   |                          |                           |
|          |         | (vi) Water supply                       |                   |                          |                           |
|          |         | (vii) Extension services                |                   |                          |                           |
|          |         | (viii) Nurseries                        |                   |                          |                           |
|          |         | (ix) Tools/machinery suppliers          |                   |                          |                           |
|          |         | (x) Price Support system                |                   |                          |                           |
|          |         | (xi) Labour                             |                   |                          |                           |
|          |         | (xii) Any other (please specify)        |                   |                          |                           |
|          |         | (A) Forward linkages                    |                   |                          |                           |
|          |         | (i) Harvesting/threshing machinery      |                   |                          |                           |
|          |         | (ii) Storage (including cold storage)   |                   |                          |                           |
|          |         | (iii) Road network                      |                   |                          |                           |
|          |         | (iv) Transport facilities               |                   |                          |                           |
|          |         | (v) Markets / Mandis                    |                   |                          |                           |
|          |         | (vi) Agro and other Industries          |                   |                          |                           |
|          |         | (vii) Milk and other collection centres |                   |                          |                           |
|          |         | (viii) Labour                           |                   |                          |                           |
|          |         | (ix) Any other (please specify)         |                   |                          |                           |

<sup>\*</sup> 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, categorywise totals may be given at the end of the table for the entire country.

**Table 7.9 Abstract of outcomes:** 

| 1          | 2     | 3   |        | 5                                  | 6                          | 7       |  |  |
|------------|-------|---|--------|------------------------------------|----------------------------|---------|--|--|
| Sl.<br>No. | State | Item  | Unit   | Pre-project<br>Status              | Post-<br>project<br>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              |        | -                                  | 6 nos.                     |         |  |  |
|            |       | Change in cropping/ land use pattern          |        | -                                  | -                          |         |  |  |
|            |       | Area under agricultural crop                  |        |                                    |                            |         |  |  |
|            |       | i Area under single crop                      |        | -                                  | -                          |         |  |  |
|            |       | ii Area under double crop                     |        | 100 ha                             | 300 ha                     |         |  |  |
|            |       | iii Area under multiple crop                  |        | 100 ha                             | 250 ha                     |         |  |  |
|            |       | Net increase in crop production area          |        |                                    |                            |         |  |  |
|            |       | Increase in area under vegetation             |        | -                                  | 150 ha                     |         |  |  |
|            |       | Increase in area under horticulture           |        | -                                  | 200 ha                     |         |  |  |
|            |       | Increase in area under fuel & fodder          |        | -                                  | 100 ha                     |         |  |  |
|            |       | 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                     |        | -                                  | 15 nos.                    |         |  |  |
|            |       | Resource use agreements                       |        | -                                  | 7 nos.                     |         |  |  |
|            |       | WDF collection & management                   |        | -                                  | 1 no.                      |         |  |  |
|            |       | Summary of lessons learnt                     | May be | Tay be attached as a separate file |                            |         |  |  |

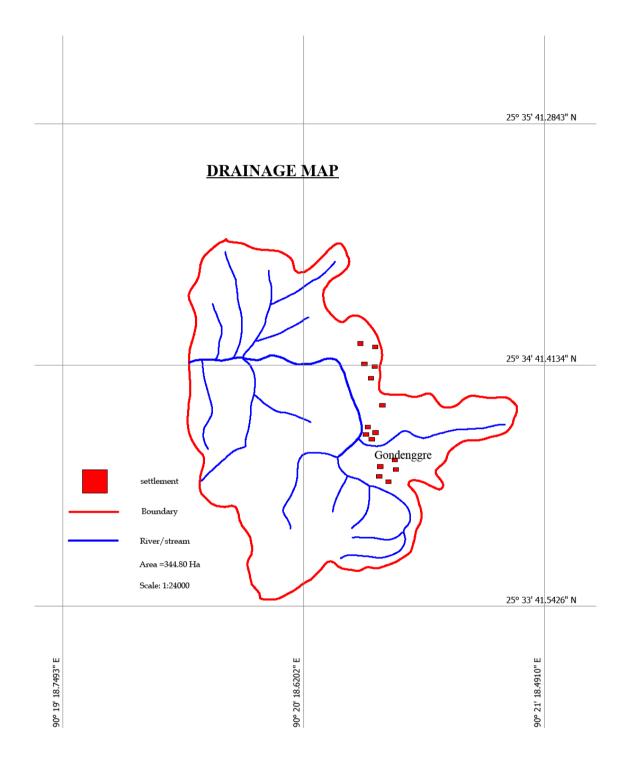
Table 7.10 Cost effectiveness of structures/ activities\*

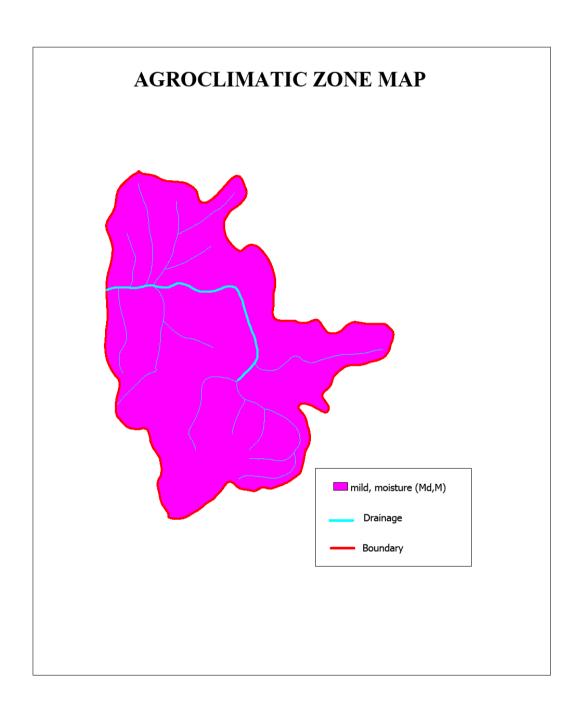
| 1                           | 2               | 3             | 4                           | 5                    | 6   | 7                          | 8                                       | 9                                      | 10  |
|-----------------------------|-----------------|---------------|-----------------------------|----------------------|---|----------------------------|---|--|-----|
| District                    | Name of project | Name of<br>WC | Name of structure/ activity | Estimated cost (Rs.) | Expected<br>quantifiable<br>benefits<br>(Rs.) | Expenditure incurred (Rs.) | Actual<br>quantifiable<br>benefit (Rs.) | Benefit:<br>Cost<br>ratio <sup>#</sup> | IRR |
| West Garo<br>Hills District | WGH-<br>IWMP V  | Chinamgija    | As per<br>Treatment<br>Plan | 27.375               | 36.586  | -                          | -                                       | 1:1.33                                 | -   |

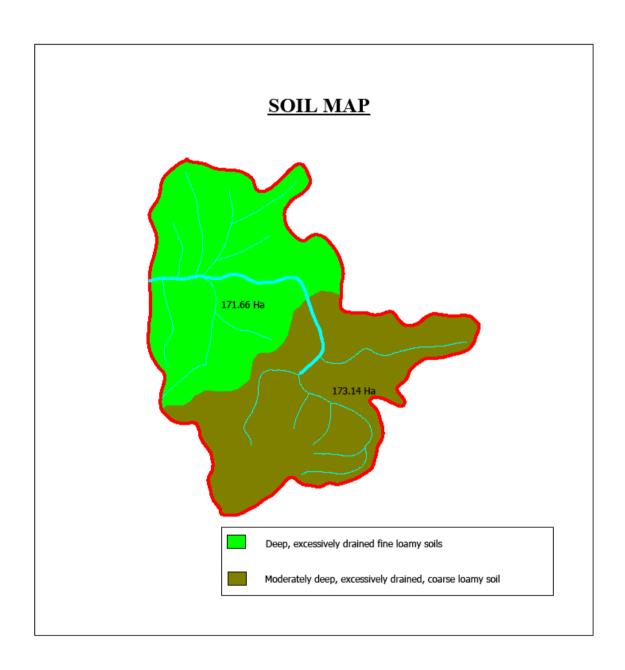
<sup>\*</sup> from column no. 2, total no. of States implementing the programme, from column no. 3, total no. of Districts; from Column no. 4, no. of projects, from column no. 5, no. of WCs, from column no. 6, no. of structures/ activities, from column no. 7 to 10, category-wise# totals, may be mentioned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

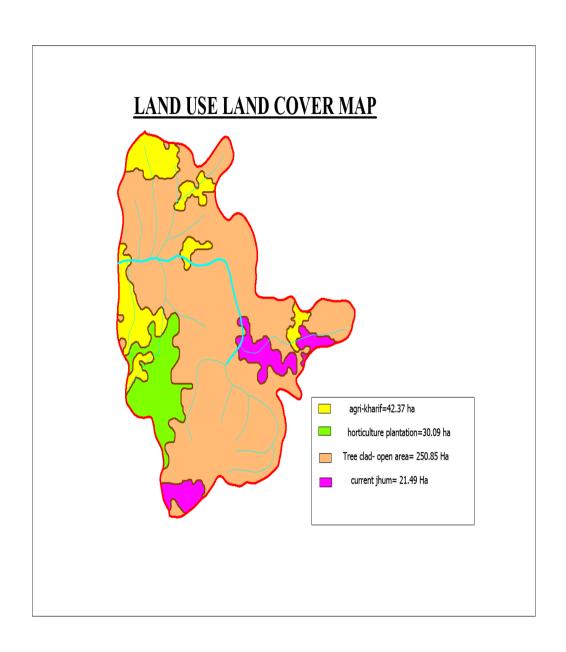
<sup>&</sup>lt;sup>#</sup> B:C ratio more than 1 − cost effective less than 1 − Not cost effective

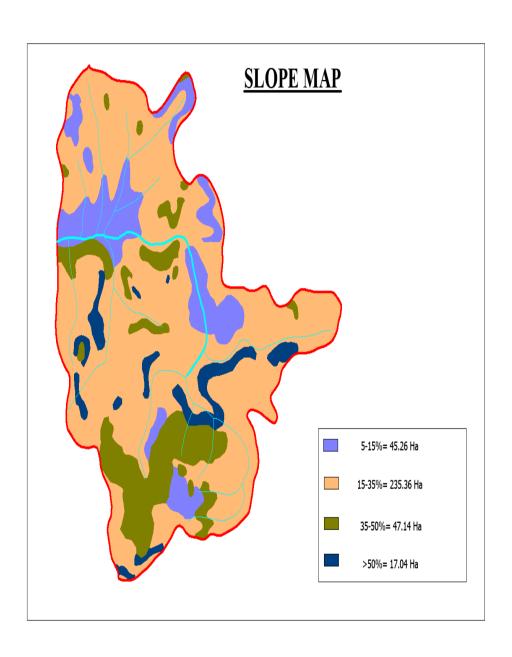
# ANNEXURE I MAPS

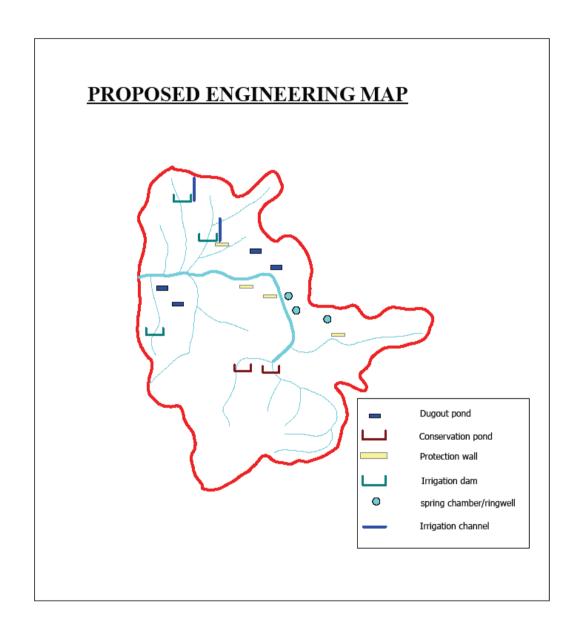


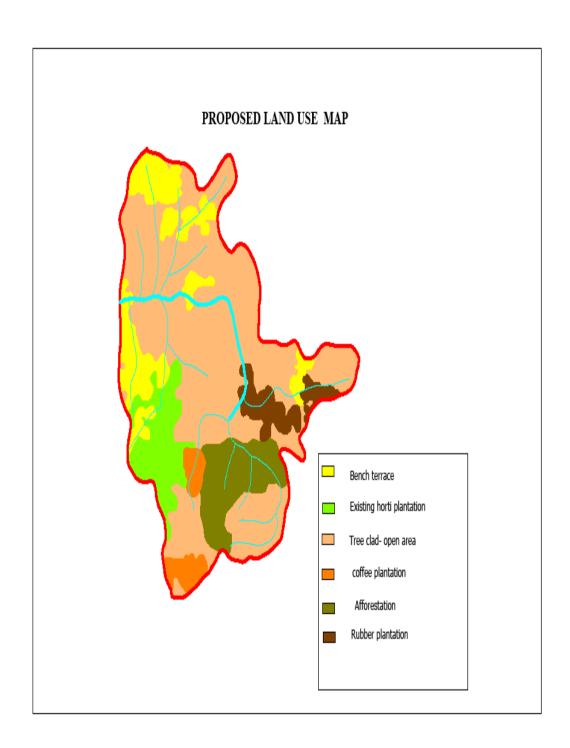












### **ANNEXURE II**

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

#### SOCIO ECONOMIC SURVEY OF VILLAGE: GONDENGGRE UNDER I.W.M.P.

|        |                                |          |            |       |             |               | Agriculture(Ha.) |                     |                  |            | Livestock  |             |             |     |                   |
|--------|--------------------------------|----------|------------|-------|-------------|---------------|------------------|---------------------|------------------|------------|------------|-------------|-------------|-----|-------------------|
| Sl.No. | Name of the head of the family | Mal<br>e | Fem<br>ale | Total | urer<br>ate | ınıte<br>rate | Total            | Settl<br>ed<br>Area | Jnu<br>m<br>Area | Hort<br>i. | Cattl<br>e | Poul<br>try | rigg<br>ery | ery | Infrastructure    |
| 1      | 2                              | 3        | 4          | 5     | 6           | 7             | 8                | 9                   | 10               | 11         | 12         | 13          | 14          | 15  | 16                |
| 1      | Shri, Genjak Marak (N)         | 3        | 1          | 4     | 4           | -             | 4                |                     |                  |            | 2          | 10          | -           | -   |                   |
| 2      | Shri, Manggan Marak            | 2        | 1          | 3     | 2           | 1             | 3                |                     |                  |            | 7          | 12          | 2           | -   | 1 no. L.P. School |
| 3      | Shri, Ronjit Sangma            | 1        | 3          | 4     | 3           | 1             | 4                |                     |                  |            | -          | 7           | 3           | -   |                   |
| 4      | Shri, Jagen Sangma             | 2        | 4          | 6     | 3           | 3             | 6                |                     |                  |            | 2          | 8           | 1           | -   | 1 no. Anganwadi   |
| 5      | Shri, Hetingson Marak          | 2        | 3          | 5     | 4           | 1             | 5                |                     |                  |            | 4          | 10          | 1           | -   | centre            |
| 6      | Shri, Sexstone Marak           | 2        | 1          | 3     | 3           | -             | 3                |                     |                  |            | 2          | 9           | 1           | -   |                   |
| 7      | Shri, Jacques Marak            | 4        | 1          | 5     | 4           | 1             | 5                |                     |                  |            | -          | 10          | 1           | -   | No Electricity    |
| 8      | Shri, Jinggat Marak            | 5        | 4          | 9     | 7           | 2             | 9                |                     |                  |            | 2          | 8           | 1           | -   |                   |
| 9      | Shri, Mansing Marak            | 1        | 2          | 3     | 2           | 1             | 3                |                     |                  |            | -          | 5           | -           | -   | No P.H.E. water   |
| 10     | Shri, Menalson Marak           | 3        | 2          | 5     | 4           | 1             | 5                |                     |                  |            | 5          | 10          | 1           | -   | supply            |
| 11     | Shri, Predinath Marak          | 3        | 1          | 4     | 3           | 1             | 4                |                     |                  |            | 2          | 8           | -           | -   |                   |
| 12     | Shri, Michael Marak            | 4        | 2          | 6     | 5           | 1             | 6                |                     |                  |            | 5          | 10          | -           | -   | No Health Sub -   |
| 13     | Shri, Melison Marak            | 6        | 2          | 8     | 7           | 1             | 8                |                     |                  |            | 5          | 10          | 1           | -   | centre            |
| 14     | Shri, Wenickson Sangma         | 4        | 2          | 6     | 4           | 2             | 6                |                     |                  |            | 2          | 12          | ı           | -   |                   |
| 15     | Shri, Clement Marak            | 1        | 2          | 3     | 2           | 1             | 3                |                     |                  |            | -          | 8           | 1           | -   | No P.D.S.         |
| 16     | Shri, Engson Marak             | 3        | 3          | 6     | 5           | 1             | 6                |                     |                  |            | -          | 6           | -           | -   |                   |
| 17     | Shri, Ronith Sangma            | 2        | 1          | 3     | 3           | -             | 3                |                     |                  |            | 4          | 8           | -           | -   |                   |
| 18     | Shri, Stenson Marak            | 3        | 3          | 6     | 2           | 4             | 6                |                     |                  |            | 2          | 6           | 1           | -   |                   |
| 19     | Shri, Jaleth Sangma            | 2        | 2          | 4     | _           | 4             | 4                |                     |                  |            | -          | 10          | 1           | -   |                   |
| 20     | Shri, Kebith Sangma            | 1        | 1          | 2     | 2           | -             | 2                |                     |                  |            | -          | 7           | 1           | -   |                   |
| 21     | Shri, Doren Sangma             | 1        | 1          | 2     | 2           | -             | 2                |                     |                  |            | -          | 6           | -           | -   |                   |
| 22     | Shri, Jengren Marak            | 1        | 1          | 2     | 1           | 1             | 2                |                     |                  |            | 5          | 8           | 2           | -   |                   |
| 1      | 2                              |          |            |       |             |               |                  |                     |                  |            |            |             |             |     | 16                |

| 23 | Shri, Tangang Marak   | 3 | 1 | 4 | 2 | 2 | 4 |  | - | 12 | -  | - |  |
|----|-----------------------|---|---|---|---|---|---|--|---|----|----|---|--|
| 24 | Shri, Teson Sangma    | 4 | 3 | 7 | 4 | 3 | 7 |  | 4 | 5  | 5  | ı |  |
| 25 | Shri, Noben Sangma    | 4 | 4 | 8 | 2 | 6 | 8 |  | 5 | 10 | 2  | - |  |
| 26 | shri, Koka Sangma     | 6 | 3 | 9 | 5 | 4 | 9 |  | 3 | 8  | -  | - |  |
| 27 | Shri, Lukash Marak    | 4 | 3 | 7 | 4 | 3 | 7 |  | - | 4  | -  | - |  |
| 28 | Shri, Helnick         | 1 | 1 | 2 | 2 | - | 2 |  | - | 7  | -  | - |  |
| 29 | Shri, Augustine Marak | 2 | 1 | 3 | 2 | 1 | 3 |  | 5 | 6  | 2  | - |  |
| 30 | Shri, Andreash Sangma | 2 | 3 | 5 | 2 | 3 | 5 |  | - | 7  | -  | - |  |
| 31 | Shri Minngjin Sangma  | 3 | 3 | 6 | 4 | 2 | 6 |  | 5 | 6  | 2  | - |  |
| 32 | Smt Palme Marak       | 1 | 1 | 2 | 1 | 1 | 2 |  | 1 | 6  | 1  | ı |  |
| 33 | Shri Palgen Sangma    | 1 | 2 | 3 | 3 | - | 3 |  | 2 | 8  | 2  | - |  |
| 34 | Shri Sinding Sangma   | 3 | 1 | 4 | 4 | - | 4 |  | 2 | 5  | 2  | ı |  |
| 35 | Shri Amita Sangma     | 2 | 1 | 3 | 2 | 1 | 3 |  | - | -  | -  | - |  |
| 36 | Shri Linson Marak     | 4 | 3 | 7 | 4 | 3 | 7 |  | - | 3  | 2  | ı |  |
| 37 | Shri Poban Sangma     | 2 | 2 | 4 | 3 | 1 | 4 |  | 2 | 8  | 2  | - |  |
| 38 | Shri Rangam           | 1 | - | 1 | - | 1 | 1 |  | 1 | 5  | -  | - |  |
| 39 | Shri Najing Sangma    | 2 | 2 | 4 | 2 | 2 | 4 |  | 1 | 6  | 1  | - |  |
| 40 | Shri Mrending Sangma  | 5 | 3 | 8 | 3 | 5 | 8 |  | - | 3  | 2  | - |  |
| 41 | Shri Dinang Marak     | 1 | - | 1 | 1 | - | 1 |  | - | -  | -  | - |  |
| 42 | Shri Jamjing Sangma   | 1 | 1 | 2 | - | 2 | 2 |  | 3 | 7  | 2  | - |  |
| 43 | Shri Eblin Sangma     | 4 | 5 | 9 | 7 | 2 | 9 |  | - | 4  | 3  | ı |  |
| 44 | Shri Darmen Sangma    | 1 | 1 | 2 | 1 | 1 | 2 |  | - | 6  | -  | - |  |
| 45 | Shri Nangnang Marak   | 2 | 3 | 5 | 3 | 2 | 5 |  | 3 | 4  | 1  | - |  |
| 46 | Shri Hemal Sangma     | 1 | 2 | 3 | 2 | 1 | 3 |  | - | 4  | =. | ı |  |
| 47 | Shri Wetson Sangma    | 1 | 2 | 3 | 2 | 1 | 3 |  | - | -  | -  | - |  |
| 48 | Shri Clever Marak     | 6 | 1 | 7 | 4 | 3 | 7 |  | 1 | 4  | -  | - |  |
| 49 | Shri Soro Marak       | 1 | 1 | 2 | 2 | - | 2 |  | 1 | 2  | -  | - |  |
| 50 | Shri Bandi Sangma     | 1 | 1 | 2 | 2 | - | 2 |  | - | -  | -  | - |  |

| 51 | Shri Mitilson Sangma  | 1 | 1 | 2 | 2 | - | 2 |  | _ | -  | - | _ |    |
|----|-----------------------|---|---|---|---|---|---|--|---|----|---|---|----|
| 1  | 2                     |   |   |   |   |   |   |  |   |    |   |   | 16 |
| 52 | Shri Binon Sangma     | 2 | 2 | 4 | 3 | 1 | 4 |  | 2 | 6  | - | - |    |
| 53 | Shri Lakan Marak      | 3 | 3 | 6 | 4 | 2 | 6 |  | - | 1  | - | - |    |
| 54 | Smt Linda Marak       | 2 | 7 | 9 | 8 | 1 | 9 |  | 3 | 5  | 1 | 2 |    |
| 55 | Shri Clon Marak       | 3 | 3 | 6 | 5 | 1 | 6 |  | 1 | 5  | 1 | 5 |    |
| 56 | Shri Monensing Sangma | 1 | 2 | 3 | 3 | - | 5 |  | 1 | 6  | - | - |    |
| 57 | Shri Raju Sangma      | 2 | 3 | 5 | 1 | 4 | 5 |  | 1 | 8  | - | - |    |
| 58 | Shri Kenedy Marak     | 3 | 3 | 6 | 4 | 2 | 6 |  | 5 | 2  | - | - |    |
| 59 | Shri Harden Sangma    | 1 | 1 | 2 | ı | 2 | 2 |  | ı | 4  | - | - |    |
| 60 | Shri Jenen Sangma     | 1 | 1 | 2 | 1 | 1 | 2 |  | 1 | -  | - | - |    |
| 61 | Shri Banjing Sangma   | 2 | 3 | 5 | 3 | 2 | 5 |  | 1 | 7  | - | - |    |
| 62 | Shri Orjon Sangma     | 2 | 1 | 3 | 2 | 1 | 3 |  | 1 | 6  | - | - |    |
| 63 | Shri Winder Sangma    | 2 | 1 | 3 | 2 | 1 | 3 |  | 1 | -  | 1 | - |    |
| 64 | Shri Basan Sangma     | 1 | - | 1 | - | 1 | 1 |  | í | 10 | - | - |    |
| 65 | Shri Okeldo Marak     | 3 | 2 | 5 | 4 | 1 | 5 |  | 1 | 8  | 1 | - |    |
| 66 | Shri Silseng Sangma   | 2 | 2 | 4 | 2 | 2 | 4 |  | í | 12 | 1 | - |    |
| 67 | Shri Withon Marak     | 2 | 4 | 6 | 4 | 2 | 6 |  | 5 | 8  | 1 | - |    |
| 68 | Shri Jangram Marak    | 3 | 3 | 6 | 4 | 2 | 6 |  | 2 | 7  | 2 | - |    |
| 69 | Shri Palebson Marak   | 4 | 2 | 6 | 4 | 2 | 6 |  | 1 | 6  | 1 | - |    |
| 70 | Shri Bimer Marak      | 2 | 1 | 3 | 2 | 1 | 3 |  | 1 | 15 | - | - |    |
| 71 | Shri Modi Marak       | 4 | 2 | 6 | 3 | 3 | 6 |  | 2 | -  | - | - |    |
| 72 | Shri Pison Marak      | 3 | 1 | 4 | 3 | 1 | 4 |  | 1 | 10 | - | - |    |
| 73 | Shri Mathus Sangma    | 4 | 3 | 7 | 4 | 3 | 7 |  | 2 | 15 | 2 | - |    |
| 74 | Shri Solen Sangma     | 3 | 2 | 5 | 4 | 1 | 5 |  | 2 | 10 | - | - |    |
| 75 | Shri Koslok Sangma    | 4 | 4 | 8 | 6 | 2 | 8 |  | 2 | 5  | - | - |    |
| 76 | Shri Merak Marak      | 2 | 1 | 3 | 3 | - | 3 |  | - | -  | - | - |    |
| 77 | Shri Doninath Marak   | 2 | 3 | 5 | 4 | 1 | 5 |  | ı | 9  | 1 | - |    |

| 78  | Shri Habit Sangma   | 3 | 1 | 4 | - | 4 | 4 |  | _ | 6  | 1 | - |    |
|-----|---------------------|---|---|---|---|---|---|--|---|----|---|---|----|
| 79  | Shri Bahinat Marak  | 2 | 4 | 6 | 6 | - | 6 |  | 3 |    | - | - |    |
| 80  | Shri Paul Sangma    | 3 | 3 | 6 | 6 | - | 6 |  | ı | 7  | 1 | - |    |
| 1   | 2                   |   |   |   |   |   |   |  |   |    |   |   | 16 |
| 81  | Shri Non Sangma     | 2 | 2 | 4 | 2 | 2 | 4 |  | - | 8  | - | 2 |    |
| 82  | Shri Wantu Marak    | 1 | 2 | 3 | 2 | 1 | 3 |  | - | 6  | - | - |    |
| 83  | Shri Donsing Marak  | 1 | 3 | 4 | 4 | - | 4 |  | - | 8  | 1 | - |    |
| 84  | Shri Jogen Sangma   | 3 | 3 | 6 | 6 | - | 6 |  | 4 | 6  | - | - |    |
| 85  | Shri Apple Marak    | 4 | 1 | 5 | 5 | - | 5 |  | 2 | 4  | - | - |    |
| 86  | Shri Nilnant Sangma | 3 | 2 | 5 | 4 | 1 | 5 |  | 1 | 3  | - | - |    |
| 87  | Shri Arjun Kumar    | 1 | 2 | 3 | 3 | - | 3 |  | 1 | 1  | - | - |    |
| 88  | Shri Sanjai Marak   | 1 | 1 | 2 | 1 | 1 | 2 |  | 1 | -  | - | - |    |
| 89  | Shri Hellon Marak   | 2 | 5 | 7 | 7 | - | 7 |  | 2 | 5  | 1 | - |    |
| 90  | Shri Grateson Marak | 2 | 5 | 7 | 7 | - | 7 |  | 3 | 6  | 1 | - |    |
| 91  | Shri Lipson Marak   | 3 | 4 | 7 | 7 | - | 7 |  | 3 | 8  | ı | - |    |
| 92  | Shri Tebiram Sangma | 4 | 3 | 7 | 6 | 1 | 7 |  | 2 | 8  | 1 | - |    |
| 93  | Smt Gresilda Marak  | ı | 2 | 2 | 2 | - | 2 |  | í | ı  | ı | - |    |
| 94  | Shri Nadal Marak    | 5 | 3 | 8 | 6 | 2 | 8 |  | 3 | 9  | 1 | - |    |
| 95  | Smt Rosita Sangma   | - | 2 | 2 | 2 | - | 2 |  | ı | -  | - | - |    |
| 96  | Shri Jugish Sangma  | 2 | 4 | 6 | 6 | - | 6 |  | 2 | 4  | - | - |    |
| 97  | Shri Piberson Marak | 3 | 3 | 6 | 6 | - | 6 |  | 1 | 5  | - | - |    |
| 98  | Shri Jahem Marak    | 2 | 2 | 4 | 4 | - | 4 |  | - | 2  | - | - |    |
| 99  | Shri Sobenath Marak | 2 | 2 | 4 | 3 | 1 | 4 |  | - | 3  | - | - |    |
| 100 | Shri Jingga Marak   | 3 | 4 | 7 | 5 | 2 | 7 |  | 2 | 9  | 1 | - |    |
| 101 | Shri Abonate Marak  | 1 | 3 | 4 | 2 | 2 | 4 |  | - | -  | - | - |    |
| 102 | Smt Walle Sangma    | - | 1 | 1 | 1 | - | 1 |  | - | -  | - | - |    |
| 103 | Shri John Sangma    | 2 | 5 | 7 | 6 | 1 | 7 |  | 3 | 4  | - | - |    |
| 104 | Shri A lot Marak    | 3 | 6 | 9 | 7 | 2 | 9 |  | 4 | 10 | 2 | 1 |    |

| 105 | Shri Obenath Sangma    | 1   | -   | 1   | 1   | -   | 1   |   |   | -   | -   | -  | -  |    |
|-----|------------------------|-----|-----|-----|-----|-----|-----|---|---|-----|-----|----|----|----|
| 106 | Shri Najan Marak       | 2   | 1   | 3   | 3   | -   | 5   |   |   | ı   | ı   | -  | -  |    |
| 107 | Shri Oni Marak         | 1   | 1   | 2   | 1   | 1   | 2   |   |   | -   | -   | -  | -  |    |
| 108 | Shri Leningbath Sangma | 4   | 4   | 8   | 7   | 1   | 8   |   |   | 2   | ı   | 1  | -  |    |
| 109 | Shri Nangjon Marak     | 1   | 3   | 4   | 2   | 2   | 4   |   |   | -   | -   | -  | -  |    |
|     |                        |     |     |     |     |     |     | ı | 1 |     |     |    |    | Т  |
| 1   | 2                      |     |     |     |     |     |     |   |   |     |     |    |    | 16 |
| 110 | Shri Nesbil Sangma     | 4   | 5   | 9   | 8   | 1   | 10  |   |   | 5   | 15  | 3  | 2  |    |
| 111 | Shri Salon Sangma      | 4   | 4   | 8   | 6   | 2   | 8   |   |   | 3   | 8   | 1  | -  |    |
| 112 | Shri Nikseng Marak     | 2   | 1   | 3   | 3   | -   | 3   |   |   | -   | -   | -  | -  |    |
| 113 | Shri Waljing Sangma    | 3   | 2   | 5   | 5   | -   | 5   |   |   | 1   | ı   | -  | -  |    |
| 114 | Shri Sangsal Sangma    | 2   | 3   | 5   | 5   | -   | 5   |   |   | -   | -   | -  | -  |    |
| 115 | Shri Olaos Marak       | 3   | 4   | 7   | 5   | 2   | 7   |   |   | 3   | 5   | 1  | -  |    |
|     |                        |     |     |     |     |     |     |   |   |     |     |    |    |    |
|     | Total.                 | 274 | 264 | 538 | 392 | 146 | 538 |   |   | 169 | 641 | 74 | 12 |    |

## ANNEXURE III

## **COST ESTIMATES**

#### COST ESTIMATE PER UNIT FOR INTEGRATED FARMING SYSTEM (IWMP).

| A. | Piggery ; i) Construction of sty @ Rs. 20000/- each                 | Rs. | 20000.00  |
|----|---|-----|-----------|
|    | ii) Cost of Piglets - 10 nos. @ Rs. 20000/- each                    | Rs. | 20000.00  |
|    | iii) Cost of feeds for 6 months (L/s)                               | Rs. | 10000.00  |
| В. | Construction of Dug out Pond ( 25.00 x 25.00 ) m ( as per estimate) | Rs. | 60000.00  |
| C. | Supply of fingerlings -1500 nos. @ Rs.3000/- per 1000 nos. (L/s)    | Rs. | 4500.00   |
| D. | Kitchen Garden ;  |     |           |
|    | i) Site preparation including Bunding, shaping etc.                 | Rs. | 3500.00   |
|    | ii) cost of F.Y.M. including cost of applicaton                     | Rs. | 4000.00   |
|    | iii) Cost of equipments and tools etc.                              | Rs. | 1500.00   |
|    | iv) Cost of seeds including sowing etc.                             | Rs. | 1500.00   |
|    | G. Total  | Rs. | 125000.00 |

(Rupees one lakh twenty five thousand ) only.

**Grand Total** 

10100.00

48

#### MODEL NORMS PER HACTARE FOR AFFORESTATION (NON-SAL) FOR IWMP

(Rate as per PWD, SOR for R & B 2008-09)

Spacing =  $(6.00 \times 5.50)$  m Plant Density = 300 nos.

#### A. <u>Preliminary Works</u>.

|    | i) Jungle clearance etc5mandays @ Rs. 100/- per<br>manday<br>ii) Pit digging (0.30 x 0.30 x 0.30) m - 300 nos. @ Rs. 4/- |           | Rs.  | 500.00             |
|----|--|-----------|------|--------------------|
|    | each   | Sub-total | Rs.  | 1200.00<br>1700.00 |
|    |  | Jub-totui | 113. | 1700.00            |
| B. | I Year Planting.   |           |      |                    |
|    | i) Cost of Planting materials - 300 nos. @ Rs. 8/- each  |           | Rs.  | 2400.00            |
|    | ii) Cost of Planting - 300 nos. @ Rs. 2/- each   |           | Rs.  | 600.00             |
|    | iii) Weeding - 2 times - 20 mandays @ Rs. 100/- per manday iv) Fire protection measures - 5 mandays @ Rs. 100/- per      |           | Rs.  | 2000.00            |
|    | manday   |           | Rs.  | 500.00             |
|    |  | Sub-total | Rs.  | 5500.00            |
| C. | II nd Year Planting .  |           |      |                    |
|    | i) Vacancy refilling (10%)   |           | Rs.  | 400.00             |
|    | ii) Weeding - 2 times - 20 mandays @ Rs. 100/- per manday<br>iii) Fire protection measures - 5 mandays @ Rs. 100/- per   |           | Rs.  | 2000.00            |
|    | manday   |           | Rs.  | 500.00             |
|    |  | Sub-total | Rs.  | 2900.00            |
|    |  |           |      |                    |

(Rupees ten thousand) only.

#### MODEL NORMS PER HACTARE FOR TERRACING (IWMP)

#### A. Technical Parameters .

|    | i) Average terrace width recommended (m)  | 15.00               |
|----|---|---------------------|
|    | ii) Vertical Interval (VI) = W x S/100 - S  | 2.5                 |
|    | iii) Terrace Length (m) = A/W + VI  | 767.00              |
|    | iv) Earthwork = $12.50 \times W \times S m^3$                                     | 1200.00             |
|    | v) Shoulder Bund Length   | 779.00              |
|    | vi) Shoulder Bund Length x-section (m²)   | 0.08                |
|    | vii) Earthwork for shoulder Bund (m³)   | 62.32               |
|    | viii)Area available for cultivation (Ha.)   | 0.87                |
| В. | Cost estimate .   | Amount.             |
|    |   |                     |
|    | i) Jungle clearance including uprooting of stumps                                 | 2000 00             |
|    | (L/s)   | 2000.00<br>15000.00 |
|    | (L/s)   |                     |
|    | (L/s) ii) Cost of terracing @ Rs. 10/- m³   | 15000.00            |
|    | (L/s) ii) Cost of terracing @ Rs. 10/- m³ iii) Cost of shoulder Bund @ Rs. 7/- m³ | 15000.00<br>850.00  |

(Rupees twenty thousand) only.

#### MODEL NORMS PER HA. FOR IMPROVEMENT OF DEGRADED FOREST (IWMP).

(Rate as per PWD SOR for R & B for 2008-09)

## A. <u>Preliminary</u> works .

i) site clearance 3 mandays @ Rs. 100/- each
 ii) Pit digging ( 0.30 x 0.30 x 0.30 ) m 100 nos. @ Rs. 4/- each
 sub - total
 Rs. 300.00
 Rs. 400.00

## B. <u>I st year</u> Planting .

I) Cost of planting material 100 nos. @ Rs. 8/- each
Rs. 800.00
ii) Cost of planting 100 nos. @ Rs. 2/- each
iii) Round weeding 4 times - 5 mandays @ Rs. 100/- each
iv) Plant protection measures 4 mandays @ Rs. 100/- each
sub-total
Rs. 800.00
Rs. 500.00
Rs. 400.00
Rs. 1900.00

## C. <u>II year</u> Planting .

i) Refilling 10%
 ii) Round weeding - 4 times- 5 mandays @ Rs. 100/- each
 iii) Plant protection measures - 4 mandays @ Rs. 100/- each
 Rs. 400.00

Sub-total Rs. 1000.00
Grand Total Rs. 3600.00

(Rupees three thousand six hundred) only.

#### MODEL NORMS PER HACTARE FOR RUBBER CULTIVATION.

Spacing -  $(4.75 \times 4.75)$  m Plant density - 450 nos.

#### **Preliminary works**

A.

- i) Cost of seedling .... L/s..... Rs. 800.00
- ii) Box terracing including pit digging (0.45 x 0.45 x 0.45 ) m ..L/s...

<u>500.0</u>0 .....Rs. 1350.00 1300.00

sub-total Rs. 9000.00

В. Ist Year Planting.

i) Cost of Fertilisers (NPK 45:30:45) including transportation

Rs. 2000.00

ii) Cost of 2 times application ( June-July and September - October)

14 mandays @ Rs. 100/- each Rs. 1400.00

iii) 1st year weeding Rs. 1200.00

Sub-total Rs. 4600.00

C. II nd year maintenance.

i) 2nd year weeding

Rs. 2700.00

Sub-total Rs. 2700.00

Grand Total Rs. 8600.00

( Rupeeseight thousand six hundred) only.

### **ESTIMATE FOR THE CONSTRUCTION OF IRRIGATION DAM UNDER** INTEGRATED WATERSHED MANAGEMENT PROGRAMME AS PER PWD SCHEDULE OF RATES FOR (R&B) ROADS & BRIDGES 2009-10.

Earth work in excavation for foundation of structure ..... technical specification etc.

Foundation:-

| Dam       | 1 | Х | 8.00  | Х | 1.20 | х | 1.00 | = | 9.60 | m³ |
|-----------|---|---|-------|---|------|---|------|---|------|----|
| W/Wall    | 2 | х | 2.50  | Х | 1.20 | х | 1.00 | = | 9.60 | m³ |
| S/Wall    | 2 | Х | 4.00  | Х | 0.30 | х | 1.00 | = | 9.60 | m³ |
| T/Wall    | 1 | Χ | 8.00  | Χ | 0.30 | Χ | 1.00 | = | 9.60 | m³ |
| Apron     | 1 | Х | 8.00  | Х | 3.00 | х | 0.40 | = | 9.60 | m³ |
| L/Channel | 1 | х | 20.00 | х | 1.80 | Х | 1.00 | = | 9.60 | m³ |
|           |   |   |       |   |      |   |      |   | 0.00 | 3  |

9.60 m<sup>3</sup> 2/75 Plain cement concrete M-10(1:3:6 nominal mix) in levelling ......

.....per drawing and technical specification etc.

Foundation Base:

Dam 1 x 8.00 x 1.20 x 0.10 = 0.96 
$$m^3$$
 W/Wall 2 x 2.50 x 1.20 x 0.10 = 0.60  $m^3$  S/Wall 2 x 4.00 x 0.30 x 0.10 = 0.24  $m^3$  T/wall 1 x 8.00 x 0.30 x  $0.10 = 0.24$   $m^3$  2.04  $m^3$ 

@ Rs 3500/ m<sup>3</sup> Rs 7140.00

3/141(B)Plain cement concrete in open foundation complete......

specification etc.

PCC Grade M20

Dam 1 x 8.00 x 1.00 x 1.00 = 8.00 m<sup>3</sup>

W/wall 2 x 2.50 x 1.00 x 1.00 = 5.00 m<sup>3</sup>

S/wall 2 x 4.00 x 0.30 x 1.00 = 2.40 m<sup>3</sup>

T/wall 1 x 8.00 x 0.30 x 
$$0.30 = 0.72 = 0.72 = 0.1$$

Rs 73104.20

4/141(F) Plain cement concrete in open foundation complete......

specification etc.

PCC Grade M30

1 x 20.00 x 1.50 x 0.20 = 
$$\frac{6.00}{35.30}$$
 m<sup>3</sup>

@ Rs 4535/ m<sup>3</sup> Rs 160085.50

5/78. Plastering with cement mortar (1:4), 15 mm thick on brickwork ...... technical specification.

5/67 Earth work in excavation for foundation of structure ...... technical specification etc.

E/channel 1 x 113.75 x 
$$(1.00 + 0.75)$$
 x  $(0.75 = 74.65 \text{ m}^3)$ 

@ Rs 101/- m³ Rs 7539.65

130/-

Rs.

@

m²

Rs.

1160.90

Total. Rs. 249999.85

Say, Rs. 250000.00

(Rupees two lakhs fifty thousand) only.

Submitted,

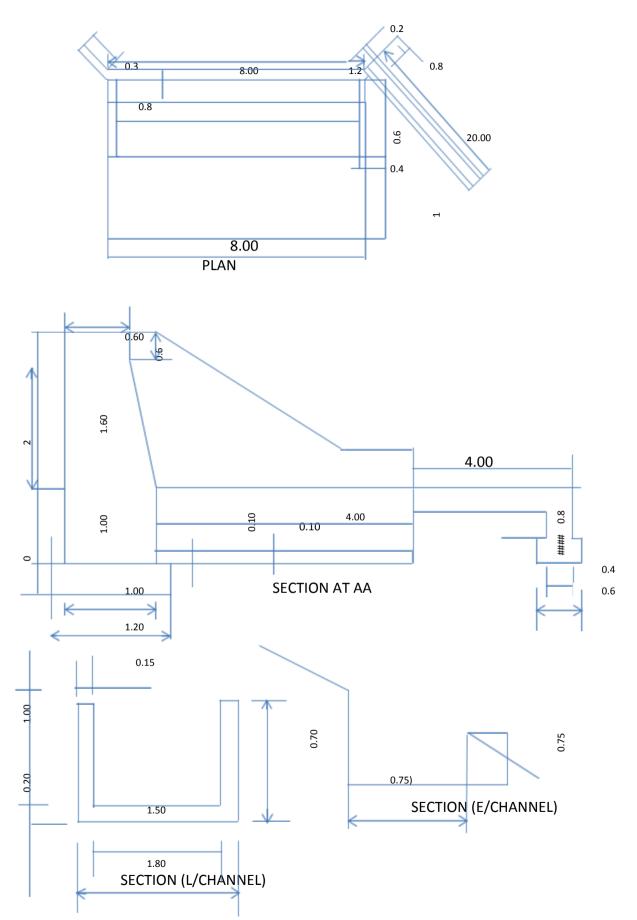
(C. H. D. Sangma)

Range Officer,

Cental Soil & water Conservation (T) Range, Tebronggre,

West Garo Hills.

#### PLAN FOR C. C. IRRIGATION DAM



## ESTIMATE FOR CONSTRUCTION OF C.C. CHANNEL UNDER INTEGRATED WATERSHED MANAGEMENT PROGRAMME AS PER PWD SCHEDULE

OF

#### **RATES FOR ROADS & BRIDGES FOR THE YEAR 2009-10**

| 1 Site preparationL/sRs. 2/67. Earth work in excavation for foundatonapproved materialapproved material.                            |             |                           |           |                      |                  |                   |         |                                 |   |   |      |    |          |  |
|---|-------------|---------------------------|-----------|----------------------|------------------|-------------------|---------|---------------------------------|---|---|------|----|----------|--|
| 1   | ap<br>x     | 30.00                     | nate<br>x |                      | x                | 0.75              | =       | 22.50                           | m³  |   |      |    |          |  |
|   |             |                           |           |                      |                  | @                 | Rs      | 101/                            | m³  | Ξ | =    | Rs | 2272.50  |  |
| 3/103 Providing and laying of dry rubble flooringspecification etc.  Boulder soling:  1 x 30.00 x 1.00 x 0.10 = 3.00 m <sup>3</sup> |             |                           |           |                      |                  |                   |         |                                 |   |   |      |    |          |  |
| 1   | Х           | 30.00                     | X         | 1.00                 | X                | 0.10<br>@         | =<br>Rs | 3.00<br>1065/                   | m³<br>m³  | Ξ | =    | Rs | 3195.00  |  |
| -   | fication    | n cement<br>on etc.<br>15 | con       | crete i              | n o <sub>l</sub> | oen foi           | unda    | tion                            |   |   |      |    |          |  |
| 2<br>1  | X<br>X      | 30.00<br>30.00            | x<br>x    | 0.20<br>0.60         | X<br>X           | 0.60<br>0.20<br>@ |         | 7.20<br>3.60<br>10.80<br>4090/- | m <sup>3</sup> m <sup>3</sup> m <sup>3</sup>                | Ξ | =    | Rs | 44172.00 |  |
|   |             | ring with<br>pecificat    |           |                      | orta             | ar(1:4)           | 15m     | m thick .                       |   |   | •••• | •  |          |  |
|   | x<br>x<br>x | 30.00<br>30.00<br>30.00   |           | 0.60<br>0.20<br>0.60 | Х                | 0.05              |         |                                 | m <sup>3</sup> m <sup>3</sup> m <sup>3</sup> m <sup>3</sup> | = | Ξ    | Rs | 429.00   |  |

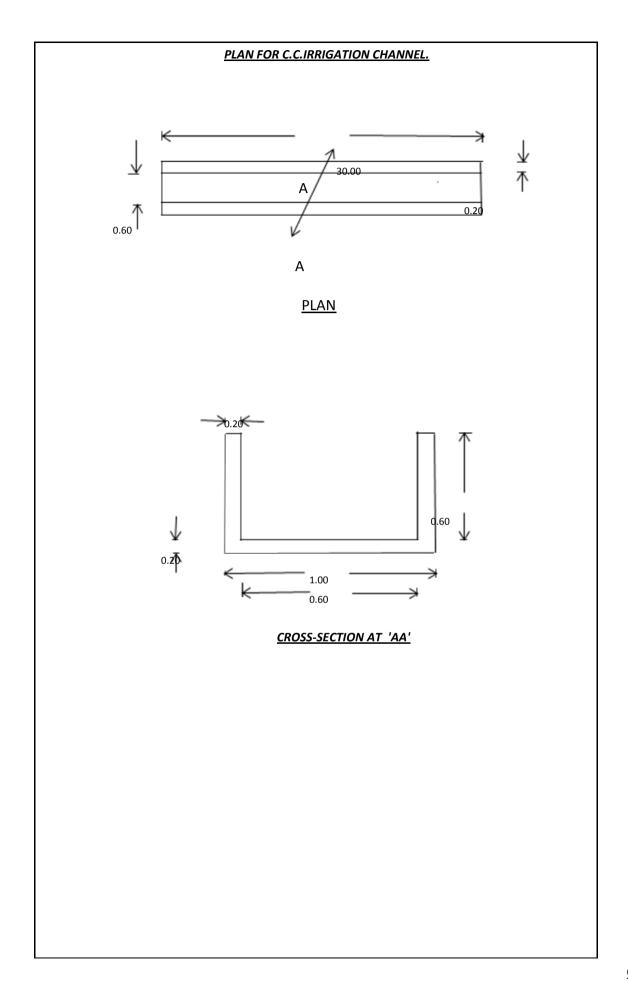
**Grand Total** 

Say

Rs 50068.50

Rs 50000.00

56



# ESTIMATE FOR CONSTRUCTION OF POND WITH C.C.CORE WALL UNDER INTEGRATED WATERSHED MANAGEMENT PROGRAMME (IWMP) AS PER SCHEDULED OF RATES FOR THE YEAR 2009-10 (ROADS & BRIDGES)

1/134 Earth work in excavation of foundation of structure as per drawing and technical specification including setting ,construction shoring & bracing,removal of tumps and other deleterious matter, dressing of sides and bottom and backfilling with appron material.

I. Ordinary Soil

Corewall:

1 x 12.00 x 1.00 x 1.00 = 12.00 
$$m^3$$
 @  $Rs$ . 47  $m^3$ 

Rs.564.00

2/137 P.C.C. 1:3:6 in foundation (PCC 1:3:6 nominalmix infoundation with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days.

Foundation

Base:

$$@$$
 Rs.  $3571$  m<sup>3</sup>

Rs.4,285.20

3/141 PCC in open foundation complete as per drawing and technical specifications.

A. PCC Grade M15.

Corewall:

1 x 12.00 x( 
$$1.00 + 0.60$$
 )x 2.5 = 24.00 m<sup>3</sup>

Overflow

outlet:

1 x 5.00 x 2.00 x 0.50 = 5.00 m<sup>3</sup>

2 x 5.00 x 0.75 x 0.50 = 
$$\frac{3.75 \text{ m}^3}{32.75 \text{ m}^3}$$
@ Rs. 4090/ m<sup>3</sup>

Rs.133947.50

4/29 Construction of embankment with approved materials obtained

from burrow pits with a lifting to 1.5m, transporting to site, spreading, grading to required slope and compacting to meet requirement of tables 300.1 and 300.2 with a lead upto 1000m as per technical specification clause 301.5. Earthfilling:

1 x 12.00 x( 
$$\frac{8.75 + 4.00}{2}$$
 )x 3.00 = 229.50 m<sup>3</sup>   
 @ Rs. 269/ m<sup>3</sup> Rs.61735.50

2

5/37 Furnishing and laying of live sods of perrenial turf forming grass on embankment slope, verges or other locations shown on the drawing or as directed by the Engineer including preparation of ground, fetching of sods and watering as per technical specification clause 309 D/S:

1 x 12.00 x 0.50 x 5.25 x 6.00 = 189.00 
$$m^2$$
   
@ Rs. 46  $m^2$  Rs.8,694.00

6/100 Providing and laying pitching on slopes laid over prepared filter media as per drawing and technical specifications clause 1302.

#### I. Boulder:

U/S:

1 x 12.00 x 0.20 x 3.50 x 4.40 = 36.96 
$$m^3$$
 Rs. 1086  $m^3$  Rs.40,138.56

7/78 Plastering with cement morter (1:4) 15mm thick on brickwork as per technical specifications.

Overflow

outlet:

1 x 5.00 x 2.00 x 0.20 = 2.00 m<sup>2</sup>  
2 x 5.00 x 1.50 x 0.20 = 3.00 m<sup>2</sup>  

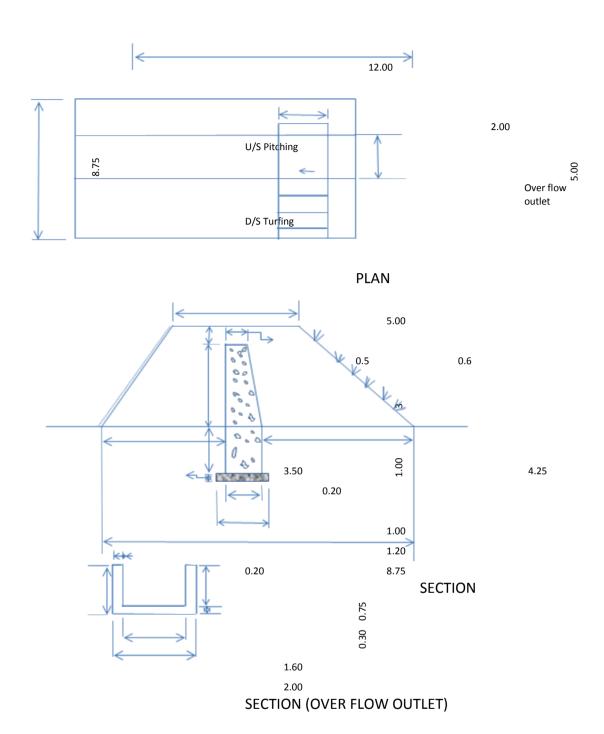
$$5.00 \text{ m}^2$$

say, 250000.00

(Rupees two lakh fifty thousand) only.

Submitted,

#### C.C. CORE WALL DAM



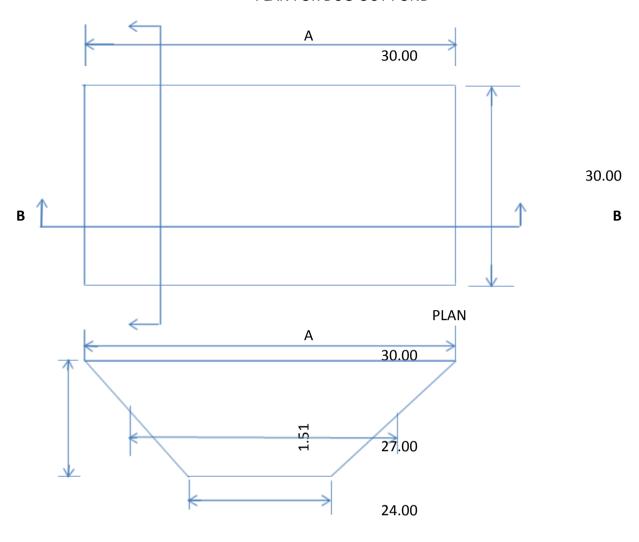
61

## ESTIMATE FOR THE CONSTRUCTION OF DUGOUT CUM FISHERY POND UNDER INTEGRATED WATERSHED MANAGEMENT PROGRAMME AS PER P.W.D. SCHEDULE OF RATES FOR ROADS & BRIDGES AND E & D WORKS FOR THE YEAR 2009-10.

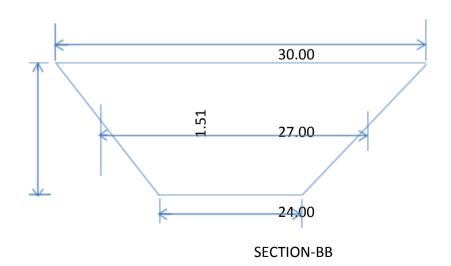
| 1. | 2/67.E    | arthw  |                  | xcavatio | n for four |                |   | structures |         | depth | as per | Rs. | 150.00         |
|----|-----------|--------|------------------|----------|------------|----------------|---|------------|---------|-------|--------|-----|----------------|
| -  | D<br>6    | {      | A + 4<br>B + C   | }        | m³         |                |   |            |         |       |        |     |                |
|    | A=        | {      | 30.00            | X        | 30.00      | }              | m | =          | 900.00  | m³    |        |     |                |
|    | B=        | {      | 27.00            | Χ        | 27.00      | }              | m | =          | 729.00  | т³    |        |     |                |
|    | C=        | {      | 24.00            | Χ        | 24.00      | }              | m | =          | 576.00  | m³    |        |     |                |
|    | D=        |        | 1.34<br>m        |          |            |                |   |            |         |       |        |     |                |
| -  | D 6       | {      | A + 4<br>B + C   | }        | m³         |                |   |            |         |       |        |     |                |
| -  | 1.51<br>6 | {<br>= | 900.00<br>980.87 | +<br>m³  | (          | 4              | Х | 729.00     | )       | +     | 576.00 | }   | m <sup>3</sup> |
|    |           |        | @                | Rs       | 101/-      | m <sup>3</sup> |   |            |         |       |        | Rs. | 99,067.87      |
|    |           |        |                  |          |            |                |   |            | Total : |       |        | Rs. | 99,217.87      |
|    |           |        |                  |          |            |                |   |            |         |       | Say,   | Rs. | 99,200.00      |

Rupees (ninety nine thousand two hundred ) only

#### PLAN FOR DUG-OUT POND



#### SECTION-AA



## ESTIMATE FOR THE CONSTRUCTION OF C. C. PROTECTION WALL UNDER INTEGRATED WATERSHED MANAGEMENT PROGRAMME AS PER P.W.D. SCHEDULE OF RATES FOR ROADS BRIDGES AND E & D WORKS FOR THE YEAR 2009-10.

| 1      | Site preparation                     |       |     |               |        |          |   |      |     |        |    | Rs. | 620.00   |
|--------|--------------------------------------|-------|-----|---------------|--------|----------|---|------|-----|--------|----|-----|----------|
| 2/134. | Excavaiton for struc                 | cture |     | approved      | d mate | erial.   |   |      |     |        |    |     |          |
|        | I. Ordinary rock.                    |       |     |               |        |          |   |      |     |        |    |     |          |
|        |                                      | 1     | Х   | 8.00          | Х      | 0.60     | Х | 0.75 | =   | 3.60   | m³ |     |          |
|        |                                      |       |     |               |        |          |   |      |     |        |    |     |          |
|        |                                      |       |     |               |        |          |   | @    | Rs. | 68/-   | m³ | Rs. | 244.80   |
| 3/137. | P C C 1:3:6 in foudation             |       |     |               |        |          |   |      |     |        |    |     |          |
|        | Foudation Base                       |       |     |               |        |          |   |      |     |        |    |     |          |
|        |                                      | 1     | x   | 8.00          | х      | 0.60     | x | 0.10 | =   | 0.48   | m³ |     |          |
|        |                                      |       |     |               |        |          |   |      |     |        |    |     |          |
|        |                                      |       |     |               |        |          |   | @    | Rs. | 3571/- | m³ | Rs. | 1714.08  |
|        |                                      |       |     |               |        |          |   |      |     |        |    |     |          |
| 4/141  | Plain cement concr<br>A. PCC Grade M | ete   |     | Technical s   | pecifi | cations. |   |      |     |        |    |     |          |
|        | 15                                   |       |     |               |        |          |   |      |     |        |    |     |          |
|        |                                      | 1     | х   | 8.00          | х      | 0.60     | x | 0.65 | =   | 3.12   | m³ |     |          |
|        |                                      |       |     |               |        |          |   |      |     |        |    |     |          |
|        |                                      |       |     |               |        |          |   | @    | Rs. | 3571/- | m³ | Rs. | 11141.52 |
| 5/141. | Plain Cement concr<br>B. PCC Grade M | ete   |     | . technical s | pecifi | cations. |   |      |     |        |    |     |          |
|        | 20                                   |       |     |               |        |          |   |      |     |        |    |     |          |
|        | 1 x                                  | 8.00  | х _ | (0.60         | +      | 0.40)    | X | 2.00 | =   | 8.00   | m³ |     |          |
|        |                                      |       |     |               | 2      |          |   |      |     |        |    |     |          |
|        |                                      |       |     |               |        |          |   | @    | Rs. | 4535/- | m³ | Rs. | 36280.00 |
|        |                                      |       |     |               |        |          |   |      |     | Total. | =  | Rs. | 50000.40 |
|        |                                      |       |     |               |        |          |   |      |     | Say,   |    | Rs. | 50000.00 |

(Rupees fifty thousand) only.

Submitted,

( C. H. D. Sangma)

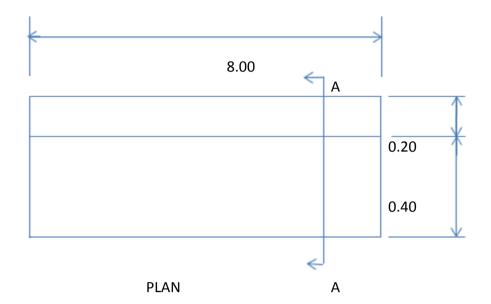
Range Officer,

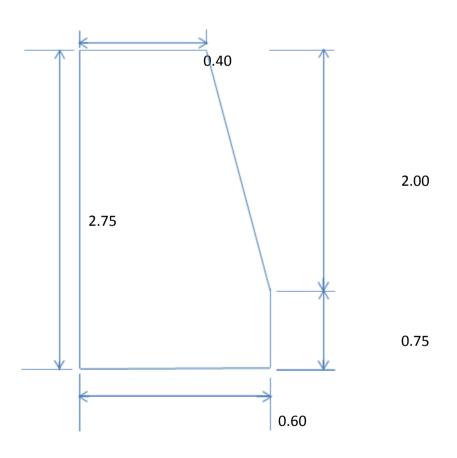
Cental Soil & water Conservation (T) Range, Tebronggre,

West Garo Hills.

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#### PLAN FOR STONE MASONRY PROTECTION WALL





## COST ESTIMATE FOR THE CONSTRUCTION OF SPRING CHAMBER UNDER INTEGRATED WATERSHED MANAGEMENT PROGRAMME AS PER P.W.D. SCHEDULE OF RATES FOR ROADS & BRIDGES AND E & D WORKS FOR THE YEAR 2009-10.

| 1             | Site preparati                                       | ion                                       |        |              |        | L/S          |        |              |    |              |          |  | Rs. | 1200.00  |  |  |
|---------------|--|---|--------|--------------|--------|--------------|--------|--------------|----|--------------|----------|--|-----|----------|--|--|
| 1/67.         | Earth work in excavation for foundation of structure |   |        |              |        |              |        |              |    |              |          |  |     |          |  |  |
|               | technical specification etc.                         |   |        |              |        |              |        |              |    |              |          |  |     |          |  |  |
|               | Foundation :-  |   |        |              |        |              |        |              |    |              |          |  |     |          |  |  |
|               | Storage  | 1   | х      | 2.00         | х      | 2.00         | х      | 1.00         | =  | 4.00         | m³       |  |     |          |  |  |
|               | Platform   | 1   | х      | 2.00         | х      | 2.00         | х      | 0.50         | =  | 2.00         | m³       |  |     |          |  |  |
|               | Drain  | 1   | х      | 2.50         | х      | 0.70         | х      | 0.50         | =  | 0.88         | m³       |  |     |          |  |  |
|               |  |   |        |              |        |              |        |              |    | 6.88         | m³       |  |     |          |  |  |
|               |  |   |        |              |        |              |        | @            | Rs | 101/         | m³       |  | Rs  | 694.88   |  |  |
|               |  |   |        |              |        |              |        |              |    |              |          |  |     |          |  |  |
| 2/103         | Providing and  |   |        |              |        |              | •••••  | •            |    |              |          |  |     |          |  |  |
|               | Specifications clause 1303.3.                        |   |        |              |        |              |        |              |    |              |          |  |     |          |  |  |
|               | Platform   | 1   | х      | 2.00         | х      | 2.00         | х      | 0.10         | =  | 0.40         | m³       |  |     |          |  |  |
|               | Storage  | 3   | х      | 2.00         | х      | 0.25         | х      | 0.75         | =  | 1.13         | m³       |  |     |          |  |  |
|               |  |   |        |              |        |              |        |              |    | 1.53         | m³       |  |     |          |  |  |
|               |  |   |        |              |        |              |        | @            | Rs | 1065/        | m³       |  | Rs  | 1629.45  |  |  |
|               |  |   |        |              |        |              |        |              |    |              |          |  |     |          |  |  |
| 3/141.E. R.C. | .C. in open fou                                      | datio                                     | on     |              |        |              |        |              |    |              |          |  |     |          |  |  |
|               | specifications                                       | etc                                       |        |              |        |              |        |              |    |              |          |  |     |          |  |  |
|               | RCC Grade M  | 25  |        |              |        |              |        |              |    |              |          |  |     |          |  |  |
|               | Column   | 2   | Х      | 0.25         | Х      | 0.25         | X      | 4.00         | =  | 0.50         | m³       |  |     |          |  |  |
|               |  | 2   | Х      | 0.25         | Х      | 0.25         | X      | 3.75         | =  | 0.47         | m³       |  |     |          |  |  |
|               | Slab   | 1   | Х      | 2.40         | Х      | 2.40         | Х      | 0.15         | =  | 0.86         | m³       |  |     |          |  |  |
|               | Beam   | 3   | Х      | 2.00         | Х      | 0.25         | Х      | 0.30         | =  | 0.45         | m³       |  |     |          |  |  |
|               |  |   |        |              |        |              |        |              |    | 2.28         | m³       |  |     |          |  |  |
|               |  |   |        |              |        |              |        | @            | Rs | 5727/        | m³       |  | Rs  | 13057.56 |  |  |
|               |  |   |        |              |        |              |        | C            |    | 0721,        |          |  |     | 10007.00 |  |  |
| 4/141.D.      | P.C.C. in oper                                       | P.C.C. in open foundation specifications. |        |              |        |              |        |              |    |              |          |  |     |          |  |  |
|               | P.C.C. Grade M25                                     |   |        |              |        |              |        |              |    |              |          |  |     |          |  |  |
|               |  | •   |        | • • •        |        |              |        |              |    |              | 2        |  |     |          |  |  |
|               | Wall   | 3   |        | 2.00         | Х      | 0.25         | Х      | 0.70         | =  | 1.05         | m²       |  |     |          |  |  |
|               |  | 1   | Х      | 2.00         | Х      | 0.25         | Х      | 2.00         | =  | 1.00         | m²       |  |     |          |  |  |
|               |  | 1   | Х      | 2.00         | Х      | 0.25         | Х      | 2.95         | =  | 1.48         | m²       |  |     |          |  |  |
|               |  | 1   | Х      | 2.00         | Х      | 0.25         | Х      | 2.70         | =  | 1.35         | m²       |  |     |          |  |  |
|               | Daltform   | 1   | X      | 2.00         | X      | 0.25         | X      | 2.70         | =  | 1.35         | m²       |  |     |          |  |  |
|               | Paltform<br>Drain                                    | 2   | X      | 2.00<br>2.50 | X      | 2.00<br>0.15 | X      | 0.30<br>0.50 | =  | 1.20<br>0.38 | m²<br>m² |  |     |          |  |  |
|               | וומווו   |   | x<br>x | 2.50         | x<br>x | 0.15         | x<br>x | 0.20         | =  | 0.38         | m²       |  |     |          |  |  |
|               |  | 1   | ٨      | 2.30         | X      | 0.40         | ٨      | 0.20         |    | 8.00         | m²       |  |     |          |  |  |
|               |  |   |        |              |        |              |        |              |    | 0.00         | 111      |  |     |          |  |  |

|       |   |   |   |      |   | @    | Rs.4 | 941/- | m³  |                 | Rs. | 39528.00 |  |
|-------|---|---|---|------|---|------|------|-------|-----|-----------------|-----|----------|--|
|       |   |   |   |      |   |      |      |       | Sub | -total =<br>C.O | Rs. | 54909.89 |  |
|       |   |   |   |      | 2 |      |      |       |     |                 | D-  | F4000 00 |  |
| 5/78. | B.F. = Rs. 54909.89 Plastering with cement mortar (1:4), 15 mm thick on brickwork |   |   |      |   |      |      |       |     |                 |     |          |  |
|       | technical specification.  |   |   |      |   |      |      |       |     |                 |     |          |  |
|       | Wall  | 2 | Х | 2.00 | х | 2.25 | =    | 9.00  | m²  |                 |     |          |  |
|       |   | 2 | х | 2.00 | х | 1.95 | =    | 7.80  | m²  |                 |     |          |  |
|       |   | 2 | х | 2.00 | х | 2.70 | =    | 10.80 | m²  |                 |     |          |  |
|       | Slab  | 1 | х | 2.40 | х | 2.40 | =    | 5.76  | m²  |                 |     |          |  |
|       |   | 2 | х | 2.40 | х | 0.15 | =    | 0.72  | m²  |                 |     |          |  |
|       | Platform  | 1 | х | 2.00 | х | 1.00 | =    | 2.00  | m²  |                 |     |          |  |
|       | Drain   | 2 | х | 2.00 | х | 0.15 | =    | 0.60  | m²  |                 |     |          |  |
|       |   | 2 | х | 2.00 | х | 0.50 | =    | 2.00  | m²  |                 |     |          |  |
|       |   | 1 | х | 2.00 | х | 0.40 | =    | 0.80  | m²  |                 |     |          |  |
|       |   |   |   |      |   |      |      | 39.48 | m²  |                 |     |          |  |
|       |   |   |   |      |   | @    | Rs.  | 130/- | m²  |                 | Rs. | 5132.40  |  |
|       |   |   |   |      |   |      |      |       |     |                 |     |          |  |
|       |   |   |   |      |   |      |      |       |     | Total           | Rs. | 60042.29 |  |

(Rupees sixty thousand only)

### Submitted,

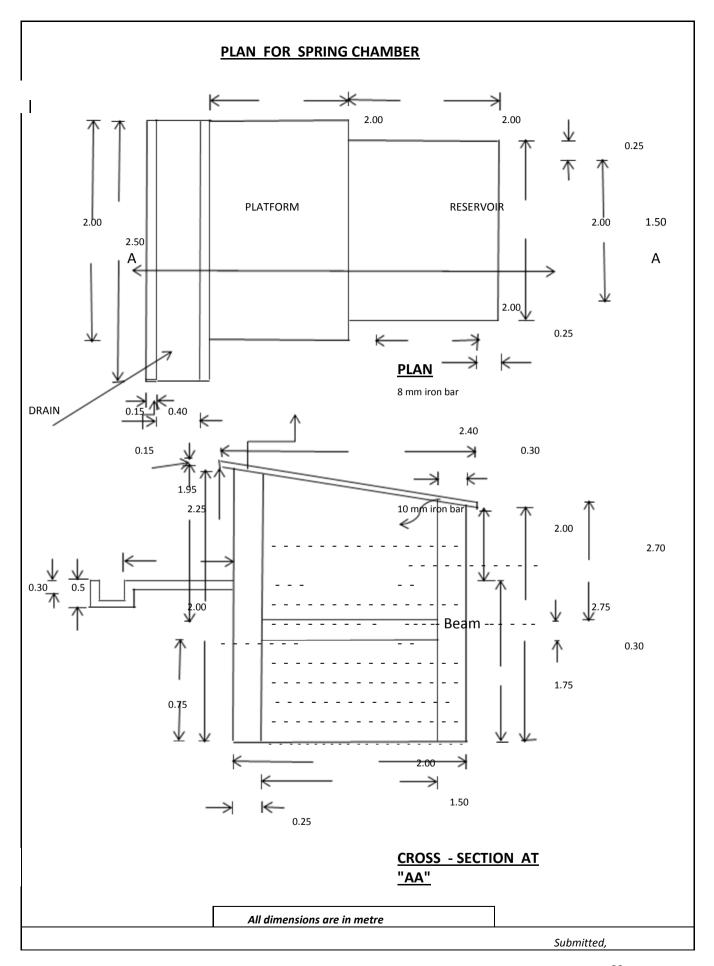
Say,

Rs.

60000.00

( C. H. D. Sangma)
Range Officer,
Cental Soil & water Conservation (T) Range,Tebronggre,
West Garo Hills.

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# **ANNEXURE IV**

MoA, OTHER DETAILS ETC.

BANJAY GOYAL, IAS DISTICT MAGISTRATE WEST GARO HILLS DISTRICT, TURA, MEGHALAYA-794001



Phone: 03651-223835(O), 223826(R) Fax: 03651-221179, 222226 e-mail: sanjaygoyal\_jas@yaboo.com

## TO WHOM IT MAY CONCERN

This is to certify that centrally sponsored schemes like NREGS, BRGF, RKVY, NRHS and Total Sanitation Campaign etc can be convered with Watershed Projects/Programmee within West Gato Hills District.

Dared: <u>Tura</u> The 14<sup>th</sup> April, 2011.



(Sanjay Goyal) Deputy Commissioner, West Garo Hills Dist, Tura.

# ABSTRACT OF PERSPECTIVE PLAN FOR CONVERGENCE OF MNREGS WITH IMMP AT GONDENGGRE VILLAGE UNDER CHINAMGUA MICRO WATERSHED, WGH - IMMP - V

| 議             |                                     | -                              |           | Ē           | v.          | !               |                    | ī i   |
|---------------|-------------------------------------|--------------------------------|-----------|-------------|-------------|-----------------|--------------------|---|
| energy design | hubber Plamaria (@ % 17000)/ per Hw | CC. rd. Dam & Rs 250000. nerco |           | Activities  |             |                 |                    | Total Nos. of Jub Card Holder: 175 nes.   |
|               | # 8                                 | 1                              | .lnk      | 5           | -           | _               | 1                  |   |
|               |                                     | 1                              | 7         | 2           |             |                 |                    |   |
|               | 10.7                                | Talka.                         | 11.5      | -           | 2002 - 2303 |                 |                    |   |
|               | i a                                 | IN Salam                       |           | İ           | LICA        |                 |                    |   |
| •             |                                     |                                | Pmy.      |             |             |                 |                    |   |
| ě             | ŝ                                   | 1.                             | 1-        |             | 2013 . 27-4 |                 |                    | Total Wag   |
| 2             | . 6                                 | Material                       |           | 1           | ŽŢ.         | Pnoj            |                    | a Compy   |
| <b>5</b> 1    | ۶.                                  | T                              | Phys      |             | 10000       | Project Perfort |                    | rent @ a  |
| 10            | ,<br>8                              | Wages                          | 3         | *****       | ) Prod      | ٩               |                    | E 100/- por   |
| <b>4</b>      | DS:0                                | Magral                         |           | 2014 - 7003 | 1045        |                 | (Figures n lakins) | *** UNLUR   |
|               | X: x                                |                                | Phy       |             |             |                 | n laidhs)          | all man   |
|               |                                     | Sp860,                         | Fin.      | 2015        |             |                 |                    | Total Waga Gumphent & Re. 1007, por day per yanum %, 1150000.00 Arkennt earmanked for convergence per work if |
|               |                                     | Material                       |           | 9:00        |             |                 |                    | 00.00   |
|               | 5 A                                 |                                | Phy       |             | 4           |                 |                    |   |
| •             | 1.00<br>1.00                        | Wages                          | fin.      | Total       |             |                 |                    |   |
| ii<br>ii      | 0.00                                | Materal                        | - T       | *           |             |                 |                    |   |
|               | 600<br>600                          |                                | Beneratod | 2004        | -down       | Marian          |                    |   |

Wage Companent ---
 Morerial Companent -----

---- Rs. 4.50

5'TE 17'2

(Rupees eleven lakh fifty thousand) only.

Greend Total.

Amount allocated for convergence for the period 2012 13 to 2015 - 16.

tenjoh harok.

## AGREEMENT FOR CONVERGENCE OF SCHEME

The Village Employment Council (VEC) and the communities of Gandenggre village under Rongram C. & R. D. Black, West Garo Hills, Meghalaya have no objection to the convergence of MNREGS with Integrated Watershed Management Project (IWMP) at Gandenggre village under Chinamgija Micro Watershed - WGH - IWMP V being implemented by Tora Sall & Water Conservation (T) Division, west Garo Hills.

We also agreed to allocate and commit funds for wages as well as material component under MNREGS in our Annual Work Plan for various Soil & water conservation works which shall be taken up during the Project period (2012-2013 to 2015-2016). The wages and material component under MNRFGS shall be utilised for the following works;

1. Rubber Plantation 10.00 Hactore.

2. C. C. traigation Dom 4 nos.

Chalman

Gondenggre V.E.C. Rongram C.& R. D. Block,

west Garo Hills.

Seem to be

Gondenbare V F C

Rongram C. & R. D. Block, West Garo Hills, Shri Jogen E. Sangma Nokma Gondenggre Jamadar- Aking III-33 (9) Dist. west Garo Hills, Meghalaya



No Objection Certificate Anga Smt/Shri Jogen T. San demechik see parake Schemeko anitang

## BENEFICIARY LIST UNDER CHINAMGIJA MICRO WATERSHED (IWMP) -2011.

| 1       |       | 2                  | 3                          | 4               | 5         |               | 6               |
|---------|-------|--------------------|----------------------------|-----------------|-----------|---------------|-----------------|
| Sl. No. |       | Beneficiary's Name | Location                   | Nature of work  | Nos./unit |               | GPS Location    |
| 1       | Shri. | Andres Sangma      | Ringgi stream, Gondenggre  | Irrigation dam  | 1         | 25° 34" 41.2' | - 90° 21" 31.8' |
|         | "     | Jingga Marak       | 11                         | 11              |           |               |                 |
|         | "     | Mellison Sangma    | 11                         | 11              |           |               |                 |
|         | "     | Binon Sangma       | п                          | 11              |           |               |                 |
|         | "     | Jonat Sangma       | п                          | п               |           |               |                 |
| 2       | "     | Lipson Marak       | Gondenggre                 | Irrigation Dam  | 1         | 25° 34" 17.5' | - 90° 20" 26.4' |
| 3       | "     | Koslok Sangma      | Gondenggre                 | Dug Out Pond    | 1         | 25° 34"50.5'  | - 90° 20" 21.6' |
| 4       | ıı    | Jastin Marak       | Ringgi stream , Gondenggre | Protection wall | 1         | 25° 34" 17.6' | - 90° 20" 23.4' |
| 5       | "     | Jahem Marak        | Ringgi stream , Gondenggre | Irrigation Dam  | 1         | 25° 34" 45.8' | - 90° 20" 19.5' |
| 6       | ıı    | Rajip Sangma       | Gondenggre                 | Protection Wall | 1         | 25° 34" 17.5' | - 90° 20" 23.5' |
| 7       | ıı    | Sekston Marak      | Gondenggre                 | C. C. Channel   | 1         | 25° 34" 33.7' | - 90° 20" 05.1' |
| 8       | "     | Clement Marak      | Gondenggre                 | Dug Out Pond    | 1         | 25° 34" 26.3' | - 90° 19" 59.0' |
| 9       | "     | Maikel Marak       | Gondenggre                 | W/H Farm Pond   | 1         | 25° 34" 16.3' | - 90° 20" 02.9' |
| 10      | ıı    | Sindeng Sangma     | Gondenggre                 | Dug out Pond    | 1         | 25° 34" 27.8' | - 90° 20" 30.4' |

|    | 2                  | 3                         | 4                      | 1         |               |                 |
|----|--------------------|---------------------------|------------------------|-----------|---------------|-----------------|
|    | Beneficiary's Name | Location                  | Nature of work         | Nos./unit |               |                 |
| 11 | " Kokka Sangma     | Gondenggre                | Dug out Pond           | 1         | 25° 34" 24.7' | - 90° 20" 23.6' |
| 12 | " Wetton Marak     | Gondenggre                | W/Harvesting Farm Pond | 1         | 25° 34" 41.0' | - 90° 21" 00.2' |
| 13 | " Wetton Marak     | Gondenggre                | Protection Wall        | 1         | 25° 34" 47.2' | - 90° 20" 56.3' |
| 14 | " Paljen Sangma    | Gondenggre                | Dug out Pond           | 1         | 25° 34" 33.0' | - 90° 20" 29.3' |
| 15 | " Limson Marak     | Gondenggre                | C.C. Channel           | 1         | 25° 34" 28.3' | - 90° 20" 31.0' |
| 16 | Community          | Gondenggre                | Rubber Plantation      |           | 25° 34" 06.1' | - 90° 20" 07.0' |
| 17 | " Silseng Sangma   | Gondenggre                | W/Harvesting Farm Pond | 1         | 25° 34" 36.6' | - 90° 21" 07.3' |
| 18 | " Kenedy Marak     | Gondenggre                | W/Harvesting Farm Pond | 1         | 25° 34" 28.2' | - 90° 20" 49.1' |
| 19 | " Setting Marak    | Ringgi Bisik , Gondenggre | Protection Wall        | 1         | 25° 34" 01.3' | - 90° 20" 03.1' |
| 20 | Community          | Gondenggre                | Coffee Pltn.           |           | 25° 34" 12.1' | - 90° 20" 06.2' |