SUMMARY

Name of the State : Meghalaya

Name of the District : West Garo Hills District

Name of the C&RD Block : Gambegre, Dalu, Zikzak.

Name of the Villages : 1. Gambegre Block= Rongbretgre, Rongari Ading Sampalgre Galwanggre
  2. Dalu Block= Sanjengpara Ajugre Madragre
  3. Zikzak = Chipra Rongchumgre, Chepragre, Tallinggre

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

Total Geographical Area : 4062.15 Ha

Total Treatment Area : 3000 Ha

Total Project Cost : 450.00 lakhs

Project Duration : 5 Years

Project Implementing Agency : Soil & Water Conservation Territorial Division, Tura
# TABLE OF CONTENTS

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

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

**CHAPTER III** ........................................................ PROJECT PLANNING AND INSTITUTION BUILDING

**PROJECT IV** ....................................................... PROJECT ACTIVITY

**CHAPTER V** .......................................................... PROJECT PHASING AND BUDGETING

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

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

**ANNEXTURE I** .................................................. MAPS .

**ANNEXTURE II** ................................................... COST ESTIMATES.

**ANNEXTURE III** .................................................. MoA, SUB COMMITTEE DETAILS ETC.
CHAPTER I

INTRODUCTION AND BACKGROUND
CHAPTER I

INTRODUCTION AND BACKGROUND

1.1 Project Background:

The Integrated Watershed Management Programme Project - XII is located at West Garo Hills under Gambegre, Dalu, Zikzak C&RD Block, West Garo Hills District of Meghalaya, comprising of of 6(six) Watershed i.e. 1. Chipra Watershed, 2. Godal Watershed, 3. Upper Aju Watershed, 4. Lower Aju Watershed, 5. Rongari Watershed, 6. Rongdeng Watershed. All the 6(six) Watershed consists of a single micro-watershed, the project area is drained by the Thallang River and its tributaries flowing in a South to North direction. The total area is 4050 Ha. with 3000 ha. to be treated under the Integrated Watershed Management Programme (IWMP).

The Project area is located at a distance of about 60 km from Godal Watershed & Chipra Watershed, 93 km. from Upper Aju & Lower Aju Watershed, 30 km. from Rongdeng Watershed and 20 km. from Rongari Watershed from Tura the District Headquarter. A total no. of 11 (eleven) villages are covered under this project. They are –

   b.) Rongchumgre village.
   b.) Tallinggre village.
   b.) Ajugre village.
4. Lower Aju Watershed :- a.) Madagre village.
5. Rongari Watershed :- a.) Rongbretgre village.
   b.) Rongari Ading village.
   b.) Galwangre village.

1.2 Micro-watershed Information:

The micro-watershed code is ______ as codified by the North East Space Application Centre (NESAC). The total area of the micro-watershed is 4062.15 Ha., with 3000 hectares to be treated under the Integrated Watershed Management Programme (IWMP).
1.3 Need and Scope for Watershed Development:

The micro-watershed W.G.H. IWMP - XII falls under the High Priority category as per the prioritization of watersheds Super Map GIS prepared by Tura Soil & Water Conservation (T) Division, West Garo Hills, Meghalaya. The farmers are all marginal. Jhum cultivation is practiced by most of the inhabitants of these villages on the slopes.

Even though the area receives ample rainfall during the monsoons, there is acute shortage of water during the dry seasons and the villagers have to travel long distances for fetching water even for domestic use.

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

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

i. MNREGS
CHAPTER II

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

2.1 Location:

The Project area is located at West Garo Hills District. There are 11(eleven) villages within the Watershed which are as follows –

2. Rongchumgre village.
3. Chepargre village.
4. Tallinggre village.
5. Sanjengpara village.
6. Ajugre village.
7. Madagre village.
8. Rongbretgre village.
10. Sampalgre village.

Following were the tables given below the location and its distance from the Tura Head Quarter of W.G.H. IWMP –XII.

<table>
<thead>
<tr>
<th>Name of the Project</th>
<th>Name of Micro Watershed</th>
<th>Geographical location</th>
<th>Distance from Project Area to District HQtr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>W.G.H. IWMP - XII</td>
<td>Chipra Micro Watershed</td>
<td>89°56’00” N to 89°58’00” N 25°25’20” E to 25°28’00” E</td>
<td>60 km.</td>
</tr>
<tr>
<td></td>
<td>Godal Micro Watershed</td>
<td>89°57’00” N to 89°59’15” N 25°24’45” E to 25°27’45” E</td>
<td>55 km.</td>
</tr>
<tr>
<td></td>
<td>Upper Aju Micro Watershed</td>
<td>90°02’50” N to 90°05’45” N 25°17’15” E to 25°19’00” E</td>
<td>93 km.</td>
</tr>
<tr>
<td></td>
<td>Lower Aju Micro Watershed</td>
<td>90°02’15” N to 90°04’10” N 25°17’15” E to 25°18’25” E</td>
<td>90 km.</td>
</tr>
<tr>
<td></td>
<td>Rongari Micro Watershed</td>
<td>90°12’00” N to 90°13’30” N 25°22’30” E to 25°24’45” E</td>
<td>45 km</td>
</tr>
<tr>
<td></td>
<td>Rongdeng Micro Watershed</td>
<td>90°11’15” N to 90°12’45” N 25°22’32” E to 25°24’00” E</td>
<td>28km</td>
</tr>
</tbody>
</table>
2.2 Physiography:

The physiography of the micro-watershed is highly undulating. The altitude ranges from a minimum of 20 m to a high of 265 m above mean sea level. The slope ranges of each Watershed are given in the below noted tables.

<table>
<thead>
<tr>
<th>Sl no.</th>
<th>Name of the Watershed</th>
<th>Lower reaches (%)</th>
<th>Middle reaches (%)</th>
<th>Upper reaches (%)</th>
<th>Elevation (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Chipra Watershed.</td>
<td>0-10</td>
<td>10-20</td>
<td>20-50</td>
<td>40 - 109</td>
</tr>
<tr>
<td>2.</td>
<td>Godal Watershed.</td>
<td>0-10</td>
<td>10-20</td>
<td>20-50</td>
<td>20 - 150</td>
</tr>
<tr>
<td>3.</td>
<td>Upper Aju Watershed</td>
<td>0-20</td>
<td>20-50</td>
<td>&gt;50</td>
<td>56-137</td>
</tr>
<tr>
<td>4.</td>
<td>Lower Aju Watershed</td>
<td>0 - 10</td>
<td>10 - 30</td>
<td>30 - 50</td>
<td>36 -117</td>
</tr>
<tr>
<td>5.</td>
<td>Rongari Watershed</td>
<td>0 -6</td>
<td>19 - 25</td>
<td>32-38</td>
<td>65 - 265</td>
</tr>
<tr>
<td>6.</td>
<td>Rongdeng Watershed</td>
<td>0 - 11</td>
<td>23 - 34</td>
<td>46 -57</td>
<td>40 - 220</td>
</tr>
<tr>
<td>Name of Watershed</td>
<td>Slope Range (%)</td>
<td>Order of watershed Sub/Micro-watershed</td>
<td>Major streams</td>
<td>Topography</td>
<td></td>
</tr>
<tr>
<td>-------------------</td>
<td>-----------------</td>
<td>----------------------------------------</td>
<td>---------------</td>
<td>------------</td>
<td></td>
</tr>
<tr>
<td>1. Chipra W/S</td>
<td>0-50</td>
<td>3 rd</td>
<td>Chipra stream.</td>
<td>undulating</td>
<td></td>
</tr>
<tr>
<td>4. Lower Aju W/S</td>
<td>0 -50</td>
<td>3 rd</td>
<td>Thallang stream</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 Rongdeng W/S</td>
<td>0 - 57</td>
<td>3 rd</td>
<td>Thallang, Rengdeng stream, Asim stream, Tematang stream, Tibe stream, Gadajuri stream, Daphella stream, Namella stream, Dopasamang stream.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
2.3 Drainage: The major stream draining the micro-watershed is the Thallang, stream, Chipra stream & godal stream, etc., which is a 3rd order stream. The slopes of the micro-watershed are dissected by numerous small tributaries flowing to the Thallang and Chipra River.

2.4 Soil:

Soil in general is moderately deep, excessively drained fine loamy soils in surface structure. They are moderately acidic in nature. The soil depth is deep to moderately deep. Due to uniform slopes and presence of many water courses, no drainage problem exist. The watershed area does not have a major erosion problem but of moderate erosion.

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

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Names of State</th>
<th>Names of District</th>
<th>Names of Projects</th>
<th>Cause</th>
<th>Types of erosion</th>
<th>Area affected (ha)</th>
<th>Run-off (mm/year)</th>
<th>Average soil loss (Tonnes/ha/year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Meghalaya</td>
<td>West Garo Hills</td>
<td>West Garo Hills – IWMP XII</td>
<td>Water erosion:</td>
<td>A Sheet</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>B Rill</td>
<td>3000</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>C Gully</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Sub total</td>
<td>3000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Wind erosion</td>
<td>nil</td>
<td>nil</td>
<td>Nil</td>
</tr>
</tbody>
</table>

2.5 Climate: -

The Watershed lies under Central Hyper-thermic Agro-climatic plateau. The average annual rainfall is about 3600mm. Monsoon normally starts in the middle of May and last till middle of October. About 80% of the total annual rainfall is received from June to September. May and June are the hottest month recording average maximum temperature of 32°C. December and January accounts for lowest of 10°C to 12°C.
Table 2.3: Agro-climatic zones of the project areas, soil types, average rainfall and major crops.

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Name of State</th>
<th>Name of the Agro-climatic zone</th>
<th>Area (in ha)</th>
<th>Names of the districts</th>
<th>Names of the Projects</th>
<th>Major soil types</th>
<th>Average annual rainfall in mm (preceding 5 years’ average)</th>
<th>Major crops</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Meghalaya</td>
<td>Central Hyper-thermic Agro-climatic</td>
<td>3000</td>
<td>West Garo Hills.</td>
<td>W.G.H. IWMP XII</td>
<td>Loamy</td>
<td>4062.15</td>
<td>Paddy 260</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Maize 50</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Millet 67</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Ginger 89</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Arecanut 100</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>TOTAL 566 ha</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
2.6 Agriculture:

Agriculture is the primary occupation of the people of the area. The people mostly practice jhum. The jhum plots vary from 0.5 to 1.0 Ha, and are cultivated for 3-4 years. The principal agricultural crops grown of the jhum fields are paddy, potato, sweet potato, millet, maize, yam and vegetables etc. Fruit crops are well suited in the lower reaches which include, Elaegnus latifolia, orange, pineapple, jackfruit, litchi. The slopes of the W.G.H. IWMP – XII are also very suitable for betel nut, betel leaf, black pepper, broomstick, cashewnut etc. which contribute to the income of the people.

Table 2.4: Crop yield and production 741.74

<table>
<thead>
<tr>
<th>Crops</th>
<th>Area (ha)</th>
<th>Average Yield (Qtl) per ha.</th>
<th>Total Production (Qtl.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paddy</td>
<td>260</td>
<td>15</td>
<td>3900</td>
</tr>
<tr>
<td>Maize</td>
<td>50</td>
<td>20</td>
<td>1000</td>
</tr>
<tr>
<td>Millet</td>
<td>67</td>
<td>8</td>
<td>536</td>
</tr>
<tr>
<td>Ginger</td>
<td>89</td>
<td>35</td>
<td>3115</td>
</tr>
<tr>
<td>Arecanut</td>
<td>100</td>
<td>8</td>
<td>800</td>
</tr>
</tbody>
</table>

2.7 Natural Vegetation:

The tree species common to the watershed area includes – *Albizzia spp, Schima wallichii, Emblica officianalis, Bombax cieba*, and *bamboo spp*. However, due to Jhum cultivation and stone quarry, the forest cover of the area has reduced considerably.

2.8 Socio-Economic Profile:

Economically, the area is perhaps the most backward in the district. The main reason is due to the absence of road communication, primitive way of agricultural practices like jhumming and the difficult terrain of the area. The entire population depends upon agriculture and horticulture, daily labour in the stone quarry for sustenance.
Demographic Status: The total households in the watershed project are 532 nos. with a total population of 2574 nos. which 1267 nos. are male and 1307 nos are female. The detail of the household in each of the villages in the watershed project is as follows:

2. Rongchumgre village.
3. Chepragre village.
4. Tallinggre village.
5. Sanjengpara village.
6. Ajugre village.
7. Madagre village.
8. Rongbretgre village.
10. Sampalgre village.

Infrastructure facilities:

2.1.1 Roads: All the villages within the Project Area are not connected by road. The Project area depends entirely on the kutcha road connected either to PWD main Road.

2.1.2 School: There are only 6 L.P Schools within the Project Area run either by the Community.

2.1.3 Electricity: At present there is electricity connection in the Project Area.

2.1.4 Health: There is no Community Health Centre Within the Project Area.

2.1.5 Water Supply: There is no drinking water supply 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 Kerapara, Wansing, Batdua However, the main market where the people sell their produce is at Tura.
### Table 2.5: Infrastructure Status.

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>Parameters:</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of District</td>
<td>Name of Project</td>
<td>No. of villages connected to the main road by an all-weather road.</td>
<td>All villages are at 1 hr to 3 hrs walking from the motorable junction</td>
</tr>
<tr>
<td>West Garo Hills</td>
<td>West Garo Hills – IWMP XII</td>
<td>No. of village provided with electricity</td>
<td>50 nos.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>No. of households without access to drinking water</td>
<td>20 nos.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>No. of educational institutions: Primary (P)/ Secondary (S)/ Higher Secondary (HS)/ Vocational institution (VI)</td>
<td>(P)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>No. of village with access to Primary Health Centre</td>
<td>Nil</td>
</tr>
<tr>
<td></td>
<td></td>
<td>No. of village with access Veterinary Dispensary</td>
<td>Nil</td>
</tr>
<tr>
<td></td>
<td></td>
<td>No. of village with access Post Office</td>
<td>Nil</td>
</tr>
<tr>
<td></td>
<td></td>
<td>No. of village with access Banks</td>
<td>Nil</td>
</tr>
<tr>
<td></td>
<td></td>
<td>No. of village with access Markets/ mandis</td>
<td>Nil</td>
</tr>
<tr>
<td></td>
<td></td>
<td>No. of village with access Agro-Industries</td>
<td>Nil</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total quantity of surplus milk</td>
<td>Nil</td>
</tr>
<tr>
<td></td>
<td></td>
<td>No. of milk collection centres (e.g Union (U)/ Society (S)/ Private agency (PA)/ Others (O))</td>
<td>(U)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>No. of villages with access to Aganwadi Centres</td>
<td>2 nos.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Any other facilities with no. of villages (Church)</td>
<td>2 nos.</td>
</tr>
</tbody>
</table>

2.6 **Livestock**: There are only 4 kinds of livestock farming being farmed in the area viz.Cattle, Piggery, Poultry and Goatry.
2.7 Land ownership:

The proposed project is under the “A’ king land tenure system, prevailing in Garo Hills District of Meghalaya in which a land is held a particular class (Mahari) under the custody of the Head of the Clan or a Village Chief called “Nokma” recognized as such by the Garo Hills District Councils.

Table 2.7: Land Holding:

<table>
<thead>
<tr>
<th>Name of District</th>
<th>Name of the Project</th>
<th>Types of Farmer</th>
<th>No. of households</th>
<th>No. of BPL households</th>
<th>Land holding (ha)</th>
</tr>
</thead>
<tbody>
<tr>
<td>West Garo Hills</td>
<td>West Garo Hills – IWMP XII</td>
<td>(i) Large</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(ii) Small</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(iii) Marginal</td>
<td>532 nos</td>
<td>-</td>
<td>742.1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(iv) Landless</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Sub - Total</td>
<td></td>
<td>532 nos</td>
<td>-</td>
<td>-</td>
<td>742.1</td>
</tr>
</tbody>
</table>
**Table 2.5: Common Property Resources in the Project Area**

<table>
<thead>
<tr>
<th>Name of District</th>
<th>Name of the Projects</th>
<th>CPR Particulars</th>
<th>Total Area (ha)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Area owned/ In possession of</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Pvt. Person</td>
</tr>
<tr>
<td>West Garo Hills</td>
<td>IWMP XII</td>
<td>(i) Wasteland/ degraded land</td>
<td>541.48</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(ii) Pastures</td>
<td>250.28</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(iii) Agriculture land</td>
<td>139.62</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(iv) Current jhum</td>
<td>248.87</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(v) Forest open</td>
<td>1040.43</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(vi) Scrub forest</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(vii) Community Buildings</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(viii) Weekly Markets</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(ix) Permanent Markets</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(x) Temples/ Places of worship</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(xi) Others (Pl. specify) Horticulture.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>TOTAL</strong></td>
<td><strong>1430.33</strong></td>
</tr>
</tbody>
</table>
2.9 Land use and land cover:

As per the land use land cover map Watershed area has been broadly classified into the following land uses.

a) Wasteland = 541.48 Ha  
b) Current jhum = 139.26 Ha  
c) Horticulture plantation = 1786.43 Ha  
d) Forest open = 604.01 Ha  
e) Scrub forest = 248.87 Ha  
f) Agriculture land = 742.1 Ha

**Total = 4062.15 Ha**

2.10 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 abandoned Jhum areas are converted to Stone Quarry areas which has further degraded the capability of the land. 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 is conducted in all the villages within the Watershed.

Further the major problems in the project area are :-

(i) Unsustainable exploitation of forest vegetation.  
(ii) Absence of soil and water conservation measures.  
(iii) Lack of technical knowledge on crop management and water management.  
(iv) Poor socio economic set up.  
(v) Fire hazards
CHAPTER III

PROJECT PLANNING & INSTITUTION BUILDING
3.1 Scientific Planning

i) **Base Line Survey:**

To establish a benchmark for assessing the impact of any intervention (pre-project & post project) a baseline survey is essential. The baseline survey included household census & socio-economic survey by using structured and semi-structured questionnaires, bio-physical survey to identify and assess the status of natural resources in the project area.

ii) **Participatory Rural Appraisal:**

To further obtain information on the project area, the people, resources, various PRA techniques like resource mapping, social mapping, seasonal calendars, matrix ranking, Venn diagrams were used.

iii) **GIS & Remote Sensing:**

To facilitate the process of prioritization and planning Geographic Information System was use. The land use and land cover (LULC) maps were prepared by the DWCDC, Tura Soil & Water Conservation. 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:

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Scientific criteria/ inputs used</th>
<th>No. of projects in which scientific criteria were used</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Cluster approach</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Whether technical back-stopping for the project has been arranged? If yes, mention the name of the Institute.</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Baseline survey</td>
<td>YES</td>
</tr>
<tr>
<td></td>
<td>Hydro-geological survey</td>
<td>NO</td>
</tr>
<tr>
<td></td>
<td>Contour mapping</td>
<td>YES</td>
</tr>
<tr>
<td></td>
<td>Participatory Net Planning (PNP)</td>
<td>YES</td>
</tr>
<tr>
<td>1</td>
<td>Remote sensing data-especially soil/ crop/ run-off cover</td>
<td>YES</td>
</tr>
<tr>
<td></td>
<td>Ridge to Valley treatment</td>
<td>YES</td>
</tr>
<tr>
<td></td>
<td>Online IT connectivity between</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(1) Project and DRDA cell/ZP</td>
<td>YES</td>
</tr>
<tr>
<td></td>
<td>(2) DRDA and SLNA</td>
<td>YES</td>
</tr>
<tr>
<td></td>
<td>(3) SLNA and DoLR</td>
<td>YES</td>
</tr>
<tr>
<td></td>
<td>Availability of GIS layers</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1. Cadastral map</td>
<td>NO</td>
</tr>
<tr>
<td></td>
<td>2. Village boundaries</td>
<td>NO</td>
</tr>
<tr>
<td></td>
<td>3. Drainage</td>
<td>YES</td>
</tr>
<tr>
<td></td>
<td>4. Soil (Soil nutrient status)</td>
<td>YES</td>
</tr>
<tr>
<td></td>
<td>5. Land use</td>
<td>YES</td>
</tr>
<tr>
<td></td>
<td>6. Ground water status</td>
<td>NO</td>
</tr>
<tr>
<td></td>
<td>7. Watershed boundaries</td>
<td>YES</td>
</tr>
<tr>
<td></td>
<td>8. Activity</td>
<td>YES</td>
</tr>
<tr>
<td></td>
<td>Crop simulation models#</td>
<td>NO</td>
</tr>
<tr>
<td></td>
<td>Integrated coupled analyzer/ near infrared visible spectroscopy/ medium spectroscopy for high speed soil nutrient analysis</td>
<td>NO</td>
</tr>
<tr>
<td></td>
<td>Normalized difference vegetation index (NDVI)#</td>
<td>NO</td>
</tr>
<tr>
<td></td>
<td>Weather Stations</td>
<td>YES</td>
</tr>
<tr>
<td>B.</td>
<td>Inputs</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Bio-pesticides</td>
<td>NO</td>
</tr>
<tr>
<td>2</td>
<td>Organic manures</td>
<td>YES</td>
</tr>
<tr>
<td>3</td>
<td>Vermi-compost</td>
<td>YES</td>
</tr>
<tr>
<td>4</td>
<td>Bio-fertilizer</td>
<td>YES</td>
</tr>
<tr>
<td>5</td>
<td>Water saving devices</td>
<td>YES</td>
</tr>
<tr>
<td>6</td>
<td>Mechanized tools/ implements</td>
<td>NO</td>
</tr>
<tr>
<td>7</td>
<td>Bio-fencing</td>
<td>YES</td>
</tr>
<tr>
<td>8</td>
<td>Nutrient budgeting</td>
<td>NO</td>
</tr>
<tr>
<td>9</td>
<td>Automatic water level recorders &amp; sediment samplers</td>
<td>YES</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Names of Districts</td>
<td>Names of projects</td>
<td>Details of PIA</td>
</tr>
<tr>
<td>West Garo Hills</td>
<td>W.G.H. IWMP-XII</td>
<td></td>
</tr>
<tr>
<td>(i) Type of organization#</td>
<td>Government</td>
<td></td>
</tr>
<tr>
<td>(ii) Name of organization</td>
<td>Soil &amp; Water Conservation (T) Division,</td>
<td></td>
</tr>
<tr>
<td>(iii) Designation &amp; Address</td>
<td>Divisional Officer, Tura Soil &amp; Water Cons.(T) Division, W.G.H, Tura Meghalaya.</td>
<td></td>
</tr>
<tr>
<td>(iv) Telephone</td>
<td>03651-222354</td>
<td></td>
</tr>
<tr>
<td>(v) Fax</td>
<td>03651-222354</td>
<td></td>
</tr>
<tr>
<td>(vi) E-mail</td>
<td><a href="mailto:turadivsoil@gmail.com">turadivsoil@gmail.com</a></td>
<td></td>
</tr>
</tbody>
</table>

3.3 Institution Building

i) Watershed Committee (WC)

The Watershed Committee of the IWMP-XII was constituted with the active involvement of the villagers with strong support of the Traditional Institutions (Village Durbar/Council). The W.G.H. IWMP-XII Watershed Committee has been registered under the Society Registration Act 1983

Table 3.2: Details of Watershed Committees (WC):

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>15</th>
<th>16</th>
<th>17</th>
<th>18</th>
</tr>
</thead>
<tbody>
<tr>
<td>Names of the Districts</td>
<td>Names of projects</td>
<td>Names of WCs</td>
<td>Date of Registration as a Society (dd/mm/yyyy)</td>
<td>Designation</td>
<td>M/F</td>
<td>SC</td>
<td>ST</td>
<td>SF</td>
<td>MF</td>
<td>LF</td>
<td>Landless</td>
<td>UG</td>
<td>SHG</td>
<td>GP</td>
<td>Any other</td>
<td>Educational qualification</td>
<td>Function/s assigned#</td>
</tr>
<tr>
<td>W.G. H</td>
<td>W.G. HIWMP XII</td>
<td>Chipra Godal L. Aju. U. Aju Rongden g Rongari</td>
<td>Under progress</td>
<td>President</td>
<td>M</td>
<td>ST</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>A to I</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Secretary</td>
<td>F</td>
<td>ST</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>A to I</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Member</td>
<td>8</td>
<td>M</td>
<td>ST</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>A to I</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Member</td>
<td>2</td>
<td>F</td>
<td>ST</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>A to I</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Member</td>
<td></td>
<td></td>
<td>ST</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>A to I</td>
</tr>
</tbody>
</table>
A. PNP and PRA
B. Planning
C. Maintenance of Accounts
D. Signing of cheques and making payments
E. Supervision of construction activities
F. Cost Estimation
G. Verification & Measurement
H. Record of labour employed
I. Social Audit
J. Any other (please specify).

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**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>W.G. H</td>
<td>WGH</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>IWM</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>XII</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>With only Men</td>
<td>With only Women</td>
<td>With both</td>
<td>Total</td>
<td>Categories</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(i) Landless</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(ii) SF</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(iii) MF</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(iv) LF</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Names of Districts</th>
<th>Names of Projects</th>
<th>Total no. of Ugs</th>
<th>No. of members</th>
<th>No. of SC/ST in each category</th>
<th>No. of BPL in each category</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Categories</td>
<td>M</td>
<td>F</td>
</tr>
<tr>
<td>Men</td>
<td>Women</td>
<td>Both</td>
<td>Total</td>
<td>(i) Landless</td>
<td>(ii) SF</td>
</tr>
<tr>
<td>West Garo Hills</td>
<td>W.G.H. IWMP XII</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>NIL</td>
<td>NIL</td>
<td>NIL</td>
<td>NIL</td>
<td>NIL</td>
</tr>
</tbody>
</table>


CHAPTER IV
PROJECT ACTIVITIES
CHAPTER IV
PROJECT ACTIVITIES

4.1 Preparatory Phase:

i) Entry Point Activities (EPA)

<table>
<thead>
<tr>
<th>Names of Project</th>
<th>Amount earmarked for EPA</th>
<th>Entry Point Activities planned</th>
<th>Estimated cost</th>
<th>Geographical Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>W.G.H IWMP-XII</td>
<td>18.00 Lakh</td>
<td>i) Solar street light</td>
<td>1.60</td>
<td>Chipra Micro Watershed 89°56'00” N to 89°58’00” N 25°25’20” E to 25°28’00” E</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ii) Spring Chamber</td>
<td>12.00</td>
<td>Godal Micro Watershed 89°57’00” N to 89°59’15” N 25°24’45” E to 25°27’45” E</td>
</tr>
<tr>
<td></td>
<td></td>
<td>iii) Ring well</td>
<td>4.40</td>
<td>Upper Aju Micro Watershed 90°02’50” N to 90°05’45” N 25°17’15” E to 25°19’00” E</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Lower Aju Micro Watershed 90°02’15” N to 90°04’10” N 25°17’15” E to 25°18’25” E</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Rongari Micro Watershed 90°12’00” N to 90°13’30” N 25°22’30” E to 25°24’45” E</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Rongdeng Micro Watershed 90°11’15” N to 90°12’45” N 25°22’32” E to 25°24’00” E</td>
</tr>
</tbody>
</table>
i) Other activities of Preparatory Phase:

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initiation of village level institution</td>
<td>Capacity building</td>
<td>IEC activities</td>
<td>Baseline survey</td>
<td>Hydro-geological survey</td>
<td>Identifying technical support agencies</td>
<td>Resource agreements</td>
</tr>
<tr>
<td>6 nos WC</td>
<td>118 nos</td>
<td>a)Pamphlets b)Banners c)Posters</td>
<td>PRA</td>
<td>NA</td>
<td>Done</td>
<td>Done</td>
</tr>
</tbody>
</table>
4.2 Watershed Works Phase:

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

<table>
<thead>
<tr>
<th>Name of Projects</th>
<th>Type of structures</th>
<th>Pre Project</th>
<th>Augmentation/ repair of existing structures</th>
<th>Proposed Project</th>
<th>Construction of new structures</th>
<th>Total target</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>No</td>
<td>Area irrigated (ha)</td>
<td>Storage capacity</td>
<td>No</td>
<td>Area to be treated (ha)</td>
</tr>
<tr>
<td>Check Dam</td>
<td></td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>C.C. Irrigation Dam</td>
<td></td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Water harvesting Structure</td>
<td></td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Earthen Irrigation channel</td>
<td></td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
### 4.2.2 Activities related to recharging ground water resources in the project areas:

<table>
<thead>
<tr>
<th>Names of projects</th>
<th>Type of structures</th>
<th>Pre-project</th>
<th>Proposed target</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Augmentation/ repair of existing recharging structures</td>
</tr>
<tr>
<td></td>
<td></td>
<td>No.</td>
<td>Area irrigated (ha)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WGH IWMP XII</td>
<td>(i) Open wells</td>
<td>Nil</td>
<td>NIL</td>
</tr>
<tr>
<td></td>
<td>(ii) Bore wells</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(iii) Any others</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(Pl. specify)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dug Out Pond</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Spring Chamber</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>Area to be irrigated (ha)</th>
<th>Estimated cost</th>
<th>Area to be irrigated (ha)</th>
<th>Estimated cost</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>75</td>
<td>400</td>
<td>37.50</td>
<td>400</td>
</tr>
<tr>
<td></td>
<td></td>
<td>6</td>
<td>-</td>
<td>3.60</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>81</td>
<td>400</td>
<td>41.10</td>
<td>400</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>Area to be irrigated (ha)</th>
<th>Estimated cost</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>81</td>
<td>41.10</td>
</tr>
</tbody>
</table>
4.2.3 Activities executed by User Groups in the Project Areas.
Beneficiaries shall be organized into User Groups for all the community-based assets created under the project to ensure proper maintenance. The project envisage to form 44 nos of User Groups to manage community based assets created at an estimated cost of Rs. 121.9085 Lakhs during project period. Post Project maintenance Fund in the form of WDF amounting to Rs.7.509 Lakhs shall be collected during the project period. Summary of the community based activities are listed below:

a) CC Irrigation Dam: 11 nos of UGs shall be formed to ensure proper maintenance of 15 nos of Dam at an estimated cost of Rs.43.2775 Lakhs. WDF to be collected amounts to Rs.2.16387 Lakhs.

b) CC Check Dam: 2 nos of UGs shall be formed to ensure proper maintenance of 2 nos of Dam at an estimated cost of Rs.4.00 Lakhs. WDF to be collected amounts to Rs.0.20 Lakhs.

b) Water harvesting pond: 12 Nos of UGs shall be formed to ensure maintenance of 16 nos of W/H structure to be constructed at a total estimated cost of Rs.38.35 Lakhs. WDF to be collected amounts to Rs.1.9175 Lakhs

c) Protection wall: 6 Nos of UGs shall be formed to ensure maintenance of 33 nos of Stone Masonry Protection wall to be constructed at a total estimated cost of Rs.28.70 Lakhs. WDF to be collected amounts to Rs.1.435 Lakhs

d) Earthen irrigation Channel: 7 Nos of UGs shall be formed to ensure maintenance of 7962 rmt of earthen Irrigation Channel to be constructed at a total estimated cost of Rs.3.98 Lakhs. WDF to be collected amounts to Rs.0.199 Lakhs

e) Spring tapped chamber: 6 Nos of UGs shall be formed to ensure maintenance of 6 nos of Spring tapped Chamber to be constructed at a total estimated cost of Rs.3.60 Lakhs. WDF to be collected amounts to Rs.0.18 Lakhs

4.2.4 Activities related to livelihoods by Self Help Groups (SHGs) in the project areas:
Existing and newly created SHGs shall be encourage and given assistance to take up income generating activities in the project villages. Assistance shall be provided for activities relating to piggery & poultry farming, Group Rubber Nursery, Small Grocery Store, Power Tiller and Group vegetable cultivation to the SHGs. During project period, 115 nos of SHGs consisting mostly of women SHGs shall be involved in the process with an estimated generation of Rs.7.69 Lakhs income annually.
### 4.2.5. Other Activities of watershed works Phase:

<table>
<thead>
<tr>
<th>Names of projects</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ridge area treatment</td>
<td>(a)</td>
<td>(b)</td>
<td>(a)</td>
<td>(b)</td>
<td>(a)</td>
<td>(b)</td>
<td>(a)</td>
<td>(b)</td>
<td>(a)</td>
<td>(b)</td>
<td>(a)</td>
<td>(b)</td>
</tr>
<tr>
<td>Drainage line treatment</td>
<td>(a)</td>
<td>(b)</td>
<td>(a)</td>
<td>(b)</td>
<td>(a)</td>
<td>(b)</td>
<td>(a)</td>
<td>(b)</td>
<td>(a)</td>
<td>(b)</td>
<td>(a)</td>
<td>(b)</td>
</tr>
<tr>
<td>Nursery raising</td>
<td>(a)</td>
<td>(b)</td>
<td>(a)</td>
<td>(b)</td>
<td>(a)</td>
<td>(b)</td>
<td>(a)</td>
<td>(b)</td>
<td>(a)</td>
<td>(b)</td>
<td>(a)</td>
<td>(b)</td>
</tr>
<tr>
<td>Land development</td>
<td>(a)</td>
<td>(b)</td>
<td>(a)</td>
<td>(b)</td>
<td>(a)</td>
<td>(b)</td>
<td>(a)</td>
<td>(b)</td>
<td>(a)</td>
<td>(b)</td>
<td>(a)</td>
<td>(b)</td>
</tr>
<tr>
<td>Horticulture Development</td>
<td>(a)</td>
<td>(b)</td>
<td>(a)</td>
<td>(b)</td>
<td>(a)</td>
<td>(b)</td>
<td>(a)</td>
<td>(b)</td>
<td>(a)</td>
<td>(b)</td>
<td>(a)</td>
<td>(b)</td>
</tr>
<tr>
<td>Veterinary services</td>
<td>(a)</td>
<td>(b)</td>
<td>(a)</td>
<td>(b)</td>
<td>(a)</td>
<td>(b)</td>
<td>(a)</td>
<td>(b)</td>
<td>(a)</td>
<td>(b)</td>
<td>(a)</td>
<td>(b)</td>
</tr>
<tr>
<td>Fishery development</td>
<td>(a)</td>
<td>(b)</td>
<td>(a)</td>
<td>(b)</td>
<td>(a)</td>
<td>(b)</td>
<td>(a)</td>
<td>(b)</td>
<td>(a)</td>
<td>(b)</td>
<td>(a)</td>
<td>(b)</td>
</tr>
<tr>
<td>Non-conventional energy</td>
<td>(a)</td>
<td>(b)</td>
<td>(a)</td>
<td>(b)</td>
<td>(a)</td>
<td>(b)</td>
<td>(a)</td>
<td>(b)</td>
<td>(a)</td>
<td>(b)</td>
<td>(a)</td>
<td>(b)</td>
</tr>
<tr>
<td>Any other (please specify)</td>
<td>(a)</td>
<td>(b)</td>
<td>(a)</td>
<td>(b)</td>
<td>(a)</td>
<td>(b)</td>
<td>(a)</td>
<td>(b)</td>
<td>(a)</td>
<td>(b)</td>
<td>(a)</td>
<td>(b)</td>
</tr>
<tr>
<td>Total estimated cost (Rs. In lakhs)</td>
<td>Total</td>
<td>-</td>
<td>4.46</td>
<td>159.4085</td>
<td>12.95</td>
<td>19.3275</td>
<td>68.80</td>
<td>-</td>
<td>-</td>
<td>32.7</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

- i) Vegetable cultivation.
- ii) Tailoring.
- iii) Carpentry.
- iv) Vermicomposting.
- vi) Small grocery store.
- vii) Power tiller.
- viii) Rice mill.
- ix) Dug out pond.
- x) Group vegetable cultivation.
### Details of engineering structures in watershed works:

<table>
<thead>
<tr>
<th>Project</th>
<th>Name of structures</th>
<th>Type of treatment</th>
<th>Type of land</th>
<th>Target</th>
<th>Expected month &amp; year of completion (mm/yyyy)</th>
<th>Estimated cost (Rs. in lakh)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>(i) Ridge area (R)</td>
<td>(ii) Drainage line (D)</td>
<td>(iii) Land Dev. (L)</td>
<td>(i) Pri-vate</td>
<td>(ii) Community</td>
</tr>
<tr>
<td>Dug out Pond</td>
<td></td>
<td>-</td>
<td>- D</td>
<td>-</td>
<td>P</td>
<td>-</td>
</tr>
<tr>
<td>Check Dam</td>
<td></td>
<td>-</td>
<td>- D</td>
<td>-</td>
<td>-</td>
<td>C</td>
</tr>
<tr>
<td>Terracing</td>
<td></td>
<td>-</td>
<td>- L</td>
<td>-</td>
<td>P</td>
<td>-</td>
</tr>
<tr>
<td>Protection Wall</td>
<td></td>
<td>-</td>
<td>- D</td>
<td>-</td>
<td>-</td>
<td>C</td>
</tr>
<tr>
<td>Earthen irrigation Channel</td>
<td></td>
<td>-</td>
<td>- D</td>
<td>-</td>
<td>-</td>
<td>C</td>
</tr>
<tr>
<td>Water Harvesting farm pond.</td>
<td></td>
<td>-</td>
<td>- D</td>
<td>-</td>
<td>-</td>
<td>C</td>
</tr>
<tr>
<td>C.C.Irrigation Dam</td>
<td></td>
<td>-</td>
<td>- D</td>
<td>-</td>
<td>-</td>
<td>C</td>
</tr>
<tr>
<td>Spring Chamber</td>
<td></td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>C</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

IWMP XII
### 4.2.7 Details of activities connected with vegetative cover in watershed works:

<table>
<thead>
<tr>
<th>Project</th>
<th>Name of structure/ work</th>
<th>Type of treatment</th>
<th>Type of land</th>
<th>Target</th>
<th>Area (ha)</th>
<th>No. of plants</th>
<th>Estimated cost (Rs. in lakh)</th>
<th>Expected month &amp; year of completion (mm/yyyy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>WGH IWMP-XII</td>
<td>Improvement of degraded forest.</td>
<td>(i) Ridge area (R)</td>
<td>(ii) Drainage line (D)</td>
<td>(iii) Land dev. (L)</td>
<td>(i) Private</td>
<td>(ii) Community</td>
<td>(iii) Others (pl. specify)</td>
<td>Area (ha)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>R</td>
<td>-</td>
<td>C</td>
<td>124</td>
<td>4.46</td>
<td>3 yrs</td>
<td></td>
</tr>
<tr>
<td>Rubber Plantation</td>
<td>-</td>
<td>-</td>
<td>C</td>
<td>P</td>
<td>665</td>
<td>57.19</td>
<td>3 yrs</td>
<td></td>
</tr>
<tr>
<td>Areca nut plantation</td>
<td>-</td>
<td>-</td>
<td>C</td>
<td>P</td>
<td>135</td>
<td>11.61</td>
<td>3 yrs</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>924</strong></td>
<td><strong>73.26</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>


4.2.8 Details of allied / other activities:

<table>
<thead>
<tr>
<th>Project</th>
<th>Name of activity</th>
<th>Type of land</th>
<th>Estimated cost (Rs. in lakh)</th>
<th>Expected month &amp; year of completion (mm/yyyy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>W.G.H IWMP-XII</td>
<td>Vegetable Cultivation</td>
<td>P</td>
<td>23.475</td>
<td>3 Yrs.</td>
</tr>
<tr>
<td></td>
<td>Tailoring</td>
<td>L</td>
<td>3.90</td>
<td>3 Yrs.</td>
</tr>
<tr>
<td></td>
<td>Carpentry</td>
<td>L</td>
<td>1.20</td>
<td>3 Yrs.</td>
</tr>
<tr>
<td></td>
<td>Vermi composting</td>
<td>C</td>
<td>0.625</td>
<td>3 Yrs.</td>
</tr>
<tr>
<td></td>
<td>Piggery</td>
<td>C</td>
<td>23.40</td>
<td>3 Yrs.</td>
</tr>
<tr>
<td></td>
<td>Small Grocery Store</td>
<td>C</td>
<td>1.05</td>
<td>3 Yrs.</td>
</tr>
<tr>
<td></td>
<td>Poultry</td>
<td>C</td>
<td>9.30</td>
<td>3 Yrs.</td>
</tr>
<tr>
<td></td>
<td>Power Tiller</td>
<td></td>
<td>3.00</td>
<td>3 Yrs.</td>
</tr>
<tr>
<td></td>
<td>Rice Mill</td>
<td>C</td>
<td>1.50</td>
<td>3 Yrs.</td>
</tr>
<tr>
<td></td>
<td>Group Rubber Poly Bag nursery</td>
<td>C</td>
<td>12.95</td>
<td>3 Yrs.</td>
</tr>
<tr>
<td></td>
<td>Group Vegetable Cultivation</td>
<td>C</td>
<td>0.60</td>
<td>3 Yrs.</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td></td>
<td>81.00</td>
<td></td>
</tr>
</tbody>
</table>
### 4.3 Consolidation and withdrawal phase
Details of activities in the CPRs in the project areas:

<table>
<thead>
<tr>
<th>Names of projects</th>
<th>Name(s) Of the villages</th>
<th>CPR particulars</th>
<th>Activity proposed</th>
<th>Target area under the activity (ha)</th>
<th>Estimated expenditure (Rs.)</th>
<th>Expected no. of beneficiaries</th>
<th>Estimated contribution to WDF (Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>W.G.H IWMP XII</strong></td>
<td>a) Chipra b) Rongchumgre c) Chepragre d) Tallinggre e) Sanjengpara f) Ajugre g) Madagre h) Rongbretgre i) Rongmari j) Sampalgre k) Galwanggre</td>
<td>Waste land</td>
<td>Improvement of degraded forest</td>
<td>124</td>
<td>4.46</td>
<td>60</td>
<td>0.223</td>
</tr>
<tr>
<td>Streams</td>
<td></td>
<td></td>
<td>Check Dam</td>
<td></td>
<td>100</td>
<td>4.00</td>
<td>140</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>C.C.irrigation Dam</td>
<td></td>
<td>450</td>
<td>43.2775</td>
<td></td>
</tr>
<tr>
<td>Agri-land</td>
<td></td>
<td></td>
<td>1. Protection Wall</td>
<td></td>
<td>450</td>
<td>28.70</td>
<td>129</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2. Earthen irrigation Channel.</td>
<td></td>
<td>7962 rmt</td>
<td>3.98</td>
<td></td>
</tr>
<tr>
<td>Springs</td>
<td></td>
<td></td>
<td>Spring chamber</td>
<td></td>
<td>-</td>
<td>15.6</td>
<td>40</td>
</tr>
<tr>
<td>Water Conservation</td>
<td>i) Water harvesting farm pond ii) Ringwell</td>
<td></td>
<td></td>
<td></td>
<td>300</td>
<td>38.35</td>
<td>67</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>-</td>
<td>4.40</td>
<td>-</td>
</tr>
</tbody>
</table>
CHAPTER V
PROJECT PHASING & BUDGETING
<table>
<thead>
<tr>
<th>Sl.no.</th>
<th>Activities</th>
<th>Total</th>
<th>1st Year</th>
<th>2nd Year</th>
<th>3rd Year</th>
<th>4th Year</th>
<th>5th Year</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Physical</td>
<td>Fin.</td>
<td>Physical</td>
<td>Fin.</td>
<td>Physical</td>
<td>Fin.</td>
</tr>
<tr>
<td>I</td>
<td>Administrative Cost</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
<td>45.00</td>
<td>0.00</td>
<td>0</td>
</tr>
<tr>
<td>II</td>
<td>Monitoring &amp; Evaluation</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
<td>9.00</td>
<td>0.00</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Sub-Total (I+II)</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
<td>54.00</td>
<td>0.00</td>
<td>0</td>
</tr>
<tr>
<td>III</td>
<td>Preparatory Phase</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>EPA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>i. Drinking Well/Spring Tapped Chamber</td>
<td>0.00</td>
<td>31</td>
<td>0</td>
<td>16.40</td>
<td>31</td>
<td>16.40</td>
</tr>
<tr>
<td></td>
<td>ii. Solar light</td>
<td>0.00</td>
<td>4</td>
<td>0</td>
<td>1.60</td>
<td>4</td>
<td>1.60</td>
</tr>
<tr>
<td></td>
<td>iii.</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>iv.</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>v.</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>DPR</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
<td>4.50</td>
<td>0</td>
<td>4.50</td>
</tr>
<tr>
<td></td>
<td>Sub-Total of III</td>
<td>0.00</td>
<td>153</td>
<td>0</td>
<td>45.00</td>
<td>0.00</td>
<td>59</td>
</tr>
<tr>
<td>IV</td>
<td>Work Phase</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Vegetable Land Treatment</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Contours Bunds</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Graded Bunds</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Loose Boulder Contour Bund</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Bench Terracing</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Wet Terrace</td>
<td>75.85</td>
<td>0</td>
<td>0</td>
<td>14.92</td>
<td>27.35</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Box Terrace</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Half Moonb Terrace</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Field Bunding</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Peripheral Bunding</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

CHAPTER V

PROJECT PHASING & BUDGETING

ACTION PLAN FOR WGH-IWMP-XII PROJECT UNDER TERRITORIAL DIVISION, TURA.

Name of District : West Garo Hills
No. of villages Covered : 10 nos
Name of C. & R. D. Block : Gambegre Dalu,Zikzak
Project Area : 3000 Ha
Name of Project: WGH-IWMP-XII
Total Project Cost : 450.00 Lakh

( Figures in lakh)
<table>
<thead>
<tr>
<th>Project Description</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crop Demonstration</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Kitchen Garden</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Improvement of Existing Paddy Fields</td>
<td>88.15</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Crop Demonstration</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Agro-Horticulture</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Horticulture Development</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Sub-Total of A</td>
<td>164.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td></td>
<td>0.8815</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Improvement of Degraded Forest/</td>
<td>124.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>existing Natural Forest</td>
<td>34</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Afforestation</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Agro-Forestry</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Nursery Establishment</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Avenue Plantation</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Rubber Plantation</td>
<td>665.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Arecaanut Plantation</td>
<td>135.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Sub-Total of B</td>
<td>924.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td></td>
<td>0.8815</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Drainage Line Treatment</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Farm Pond/Dug Out Pond</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Water Harvesting Structures</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Nallah Bund</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Earthen Embankments</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Check Dam, HW Dam, Diversion Dam/Irrigation Dam</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Loose Boulder Check Dam</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Gabion Protection/Retaining Wall</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Stone Masonry Protection Wall/Retaining Wall</td>
<td>0.00</td>
<td>33</td>
<td>0</td>
</tr>
<tr>
<td>Bamboo Wall/Bamboo Spurs</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Drip Irrigation</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Water Tank/Percolation Tank</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Runoff Disposal Channel</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Earthen Irrigation Channel</td>
<td>0.00</td>
<td>0</td>
<td>7964</td>
</tr>
<tr>
<td>CC Irrigation Channel</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Aqueduct</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Spring Chamber</td>
<td>0.00</td>
<td>6</td>
<td>0</td>
</tr>
<tr>
<td>Sub-Total of C</td>
<td>0.00</td>
<td>147</td>
<td>7964</td>
</tr>
<tr>
<td>D Livelihood</td>
<td>0.00</td>
<td>39</td>
<td>0</td>
</tr>
<tr>
<td>Tailoring</td>
<td>0.00</td>
<td>24</td>
<td>0</td>
</tr>
<tr>
<td>Carpenter/Black Smithy</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Agriculture Implements</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Vegetable Production/Kitchen Garden</td>
<td>0.00</td>
<td>939</td>
<td>0</td>
</tr>
<tr>
<td>Apiculture</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Masonry/Hollow Block Making</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Piggery</td>
<td>0.00</td>
<td>85</td>
<td>0</td>
</tr>
<tr>
<td>Poultry</td>
<td>0.00</td>
<td>5</td>
<td>0</td>
</tr>
<tr>
<td>Vermi-Composting</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Composting</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Weaving</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Stabilized Mud Block Making</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Grocery Shop/Food Stall</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Promotion of Indigenous Medicinal Practitioner</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Pisciculture</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Soap Making</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Dug-out pond.</td>
<td>0.00</td>
<td>9</td>
<td>0</td>
</tr>
<tr>
<td>Sub-Total of D</td>
<td>0.00</td>
<td>1101</td>
<td>0</td>
</tr>
<tr>
<td>E</td>
<td>Production Systems</td>
<td>0.00</td>
<td>83</td>
</tr>
<tr>
<td>-----</td>
<td>------------------------------------------</td>
<td>------</td>
<td>----</td>
</tr>
<tr>
<td></td>
<td>Poultry/Piggery</td>
<td>0.00</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Poultry Farming</td>
<td>0.00</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Piggery Farming</td>
<td>0.00</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Food Processing</td>
<td>0.00</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Floriculture</td>
<td>0.00</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Pisciculture (including supply of fingerlings)</td>
<td>0.00</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Betel Nut Soaking Tank</td>
<td>0.00</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Canes &amp; Handicrafts</td>
<td>0.00</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Rural Godown/Cold Storage</td>
<td>0.00</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Cableway Taxing</td>
<td>0.00</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Apiculture/Bee Keeping</td>
<td>0.00</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Grocery Shop</td>
<td>0.00</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Vermi-Composting</td>
<td>0.00</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Milk Cow Rearing</td>
<td>0.00</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Saloon/Beauty Parlour</td>
<td>0.00</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Mushroom Cultivation</td>
<td>0.00</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Floriculture</td>
<td>0.00</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Goat Rearing</td>
<td>0.00</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Weaving &amp; Handloom</td>
<td>0.00</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Stabilized Mud Block Making</td>
<td>0.00</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Carpenter/Black Smithy</td>
<td>0.00</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Duckery</td>
<td>0.00</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Sericulture</td>
<td>0.00</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Soap Making</td>
<td>0.00</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Rice Mill operation</td>
<td>0.00</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Improved Fuel Making (Fire Cakes etc.)</td>
<td>0.00</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Integrated Farming System</td>
<td>0.00</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Basket making</td>
<td>0.00</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Kitchen Garden</td>
<td>0.00</td>
<td>0</td>
</tr>
<tr>
<td>Item</td>
<td>Rubber nursery (Poly bag)</td>
<td>Power tiller</td>
<td>Group Vegetable Cultivation</td>
</tr>
<tr>
<td>-------------------------------------</td>
<td>---------------------------</td>
<td>--------------</td>
<td>-----------------------------</td>
</tr>
<tr>
<td>Quantity</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Price</td>
<td>25900</td>
<td>2.00</td>
<td>0.60</td>
</tr>
<tr>
<td>Cost</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Total</td>
<td>0.00</td>
<td>25995</td>
<td>0.60</td>
</tr>
<tr>
<td>Sub-Total</td>
<td>0.00</td>
<td>27243</td>
<td>0.60</td>
</tr>
<tr>
<td>Consolidation Phase</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GRAND TOTAL</td>
<td>1088.00</td>
<td>27396</td>
<td>450.00</td>
</tr>
</tbody>
</table>
## Chapter V
### Project Phasing & Budgeting

**Action Plan of Lower Aju Micro Watershed (IWMP) Under Territorial Division, Tura.**

- **Name of District:** West Garo Hills
- **No. of villages Covered:** 1 nos
- **Name of C. & R. D. Block:** Dalu
- **Project Area:** 250 Ha
- **Name of Project:** WGH-IWMP-XII
- **Total Project Cost:** 37.50 Lakh  
  (Figures in lakh)

### 1. Management Cost:

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Activities</th>
<th>1st Yr. (6%)</th>
<th>2nd Yr. (14%)</th>
<th>3rd Yr. (50%)</th>
<th>4th Yr. (25%)</th>
<th>5th Yr. (5%)</th>
<th>Total 100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Administrative Cost : 10%</td>
<td></td>
<td>2% 0.75</td>
<td>5% 1.875</td>
<td>3% 1.125</td>
<td>-</td>
<td>10% 3.75</td>
</tr>
<tr>
<td></td>
<td>i) Honorarium of 1 WDT Member @ Rs.1000/- per month</td>
<td>month</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td></td>
<td>ii) Honorarium of WC Chairman @ Rs.500/- per month</td>
<td>month</td>
<td>5 0.025</td>
<td>6 0.030</td>
<td>6 0.030</td>
<td>0.090</td>
<td>0.27</td>
</tr>
<tr>
<td></td>
<td>iii) Honorarium of WCM @ Rs.200/- per member per month</td>
<td>month</td>
<td>4 0.072</td>
<td>6 0.108</td>
<td>5 0.090</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>iv) Audit fee for Chartered Accountant</td>
<td></td>
<td>0.20</td>
<td>0.50</td>
<td>0.30</td>
<td>0.60</td>
<td>1.00</td>
</tr>
<tr>
<td></td>
<td>vii) Hiring Charges of Vehicles</td>
<td></td>
<td>0.20</td>
<td>0.50</td>
<td>0.50</td>
<td>0.50</td>
<td>1.20</td>
</tr>
<tr>
<td></td>
<td>viii) Office expenses</td>
<td></td>
<td>0.253</td>
<td>0.737</td>
<td>0.205</td>
<td>0.205</td>
<td>1.195</td>
</tr>
<tr>
<td></td>
<td>Total of 'A'</td>
<td></td>
<td>0</td>
<td>0.75</td>
<td>1.875</td>
<td>1.125</td>
<td>0</td>
</tr>
</tbody>
</table>

### 2. Preparatory Phase:

- **Preparatory Phase :** 4%
  - i) Solar street light : nos 0.00  
  - ii) Spring chamber : nos 2 1.20  
  - iii) Ringwell : nos 1 0.30

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Activities</th>
<th>1st Yr. (6%)</th>
<th>2nd Yr. (14%)</th>
<th>3rd Yr. (50%)</th>
<th>4th Yr. (25%)</th>
<th>5th Yr. (5%)</th>
<th>Total 100%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>4% 1.50</td>
<td></td>
<td></td>
<td></td>
<td>1.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2</td>
<td>1.20</td>
<td></td>
<td></td>
<td>1.20</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>0.30</td>
<td></td>
<td></td>
<td>0.30</td>
</tr>
</tbody>
</table>

<p>|         |                             |              | 1.50          | 0             | 0             | 0           | 0.00       | 1.50       |</p>
<table>
<thead>
<tr>
<th></th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
</tr>
</thead>
<tbody>
<tr>
<td>C.</td>
<td>Institution &amp; Capacity Building ; 5 %</td>
<td>1%</td>
<td>0.375</td>
<td>2%</td>
<td>0.75</td>
<td>1%</td>
<td>0.375</td>
<td>1%</td>
<td>0.375</td>
<td>5%</td>
<td>1.875</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>i) Awareness Campaign</td>
<td>nos</td>
<td>2</td>
<td>0.375</td>
<td>1</td>
<td>0.2</td>
<td>0</td>
<td>0</td>
<td>3</td>
<td>0.575</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ii) Exposure visits off-campus</td>
<td>nos</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>iii) Capacity Building of SHGs/Ugs/farmers</td>
<td>nos</td>
<td>0</td>
<td>1</td>
<td>0.2</td>
<td>2</td>
<td>0.375</td>
<td>1</td>
<td>0.2</td>
<td>4</td>
<td>0.775</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>iv) Capacity Building of WC members</td>
<td>nos</td>
<td>0</td>
<td>1</td>
<td>0.2</td>
<td>0</td>
<td>1</td>
<td>0.175</td>
<td>2</td>
<td>0.375</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>v) Capacity Building of WDT/W Volunteer</td>
<td>nos</td>
<td>1</td>
<td>0.15</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0.15</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total of 'C'</td>
<td>2</td>
<td>0.375</td>
<td>4</td>
<td>0.75</td>
<td>2</td>
<td>0.375</td>
<td>2</td>
<td>0.375</td>
<td>0</td>
<td>0</td>
<td>10</td>
<td>1.875</td>
</tr>
<tr>
<td>D.</td>
<td>Detail Project Report (DPR) - 1%</td>
<td>1%</td>
<td>0.375</td>
<td>1%</td>
<td>0.375</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>i) Cost of Resources Inventories works</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ii) Cost of PRA</td>
<td>0.10</td>
<td>0.10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>iii) Cost of Land use survey</td>
<td>0.10</td>
<td>0.10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>iv) Cost of formulating</td>
<td>0.18</td>
<td>0.18</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total of 'D'</td>
<td>0.375</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0.375</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E.</td>
<td>i) Monitoring - 1%</td>
<td>0.20%</td>
<td>0.075</td>
<td>0.50%</td>
<td>0.1875</td>
<td>0.30%</td>
<td>0.1125</td>
<td>1%</td>
<td>0.375</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ii) Evaluation - 1%</td>
<td>0.30%</td>
<td>0.1125</td>
<td>0.50%</td>
<td>0.1875</td>
<td>0.20%</td>
<td>0.075</td>
<td>1%</td>
<td>0.375</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total of 'E'</td>
<td>0</td>
<td>0.1875</td>
<td>0.375</td>
<td>0.1875</td>
<td>0</td>
<td>0</td>
<td>0.375</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>II</td>
<td>Watershed Works Phase : 50 %</td>
<td>56%</td>
<td>21.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A.</td>
<td>Arable Land Treatment :</td>
<td>7.50%</td>
<td>2.8125</td>
<td>37%</td>
<td>13.875</td>
<td>11.50%</td>
<td>4.3125</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>i) Terracing - @ Rs.20000/- ha.</td>
<td>Ha</td>
<td>5.00</td>
<td>0.75</td>
<td>2.50</td>
<td>0.50</td>
<td>0.00</td>
<td>0.00</td>
<td>7.5</td>
<td>1.25</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ii) Improvement of existing paddy field@Rs.5000/- Ha</td>
<td>Ha</td>
<td>5.13</td>
<td>0.2565</td>
<td>6.24</td>
<td>0.312</td>
<td>4.12</td>
<td>0.21</td>
<td>15.49</td>
<td>0.77</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total of 'A'</td>
<td>0</td>
<td>0</td>
<td>10.13</td>
<td>1.0065</td>
<td>8.74</td>
<td>0.812</td>
<td>4.12</td>
<td>0.206</td>
<td>0</td>
<td>0</td>
<td>22.99</td>
<td>2.02</td>
</tr>
</tbody>
</table>
### B. Non-Arable Land Treatment:

<table>
<thead>
<tr>
<th></th>
<th>Ha</th>
<th>0.00</th>
<th>0</th>
<th>10.00</th>
<th>0.36</th>
<th>0.00</th>
<th>0</th>
<th>10.00</th>
<th>0.36</th>
</tr>
</thead>
<tbody>
<tr>
<td>i) Improvement of degraded forest - @ Rs.3600/- per ha.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ii) Rubber Plantation - @ Rs.8600/- per ha.</td>
<td>21.00</td>
<td>1.806</td>
<td>18.00</td>
<td>1.548</td>
<td>14.00</td>
<td>1.20</td>
<td></td>
<td></td>
<td>53.00</td>
</tr>
<tr>
<td>iii) Areca nut Plantation - @Rs.8600/- per ha.</td>
<td></td>
<td>0.00</td>
<td>10.00</td>
<td>0.86</td>
<td>10.00</td>
<td>0.86</td>
<td></td>
<td></td>
<td>20.00</td>
</tr>
<tr>
<td><strong>Total of 'B'</strong></td>
<td>0</td>
<td>0</td>
<td>21.00</td>
<td>38.00</td>
<td>2.77</td>
<td>24.00</td>
<td>2.06</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

### C. Drainage Line Treatment:

<table>
<thead>
<tr>
<th></th>
<th>nos</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>i) C.C. Irrigation Dam</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ii) Check Dam</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ii) Water harvesting structure</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>iii) Dug out Pond</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>iv) Protection Wall</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>v) Earthen Irrigation Channel</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total of 'C'</strong></td>
<td>0</td>
<td>0</td>
<td>0.00</td>
<td>590</td>
<td>0.295</td>
<td>85</td>
<td>0.0425</td>
<td></td>
<td>675</td>
</tr>
</tbody>
</table>

**Total of II (A to C)**

|                  | Ha   | 0    | 0    | 31.13 | 2.8125 | 46.74 | 13.875 | 28.12 | 4.3125 | 0.00  | 0     | 105.99 | 21.00 |

### III Livelihood Activities for Assetless Person - 10%

<table>
<thead>
<tr>
<th></th>
<th>unit</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>i) Vegetable cultivation @ Rs.2500/- per unit</td>
<td></td>
<td>0.375</td>
<td>3%</td>
<td>1.125</td>
<td>5%</td>
<td>1.875</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ii) Tailoring @Rs.10000/- per unit</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>iii) Carpentry @Rs.5000/- per unit</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>iv) Vermi composting @Rs.12500/- per unit</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>v) Dugout pond @Rs.50000/- per unit</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total of III</strong></td>
<td>0</td>
<td>0</td>
<td>15</td>
<td>0.375</td>
<td>16</td>
<td>1.125</td>
<td>29</td>
<td>1.875</td>
<td>0</td>
<td>0</td>
<td>60</td>
<td></td>
<td>3.375</td>
</tr>
</tbody>
</table>

**Total of III**
<table>
<thead>
<tr>
<th></th>
<th>Production System &amp; Micro Enterprises - 13%</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>1%</td>
<td>3%</td>
<td>6%</td>
<td>2.25</td>
<td>10%</td>
</tr>
<tr>
<td>i) Piggery</td>
<td>unit</td>
<td>0.00</td>
<td>0.30</td>
<td>2.60</td>
<td>3</td>
<td>0.90</td>
</tr>
<tr>
<td>ii) Poultry</td>
<td>unit</td>
<td>0.00</td>
<td>0.30</td>
<td>1.30</td>
<td>2</td>
<td>0.60</td>
</tr>
<tr>
<td>iii) Rice mill</td>
<td></td>
<td>1</td>
<td>0.50</td>
<td>1</td>
<td>0.50</td>
<td></td>
</tr>
<tr>
<td>iv) Rubber nursery (polybagged rubber saplings)</td>
<td>nos</td>
<td>750</td>
<td>1050</td>
<td>0.525</td>
<td>1700</td>
<td>0.85</td>
</tr>
<tr>
<td></td>
<td>Total of IV</td>
<td>0</td>
<td>0.375</td>
<td>1.125</td>
<td>2.25</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Consolidation &amp; withdrawal Phase - 3%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>i) Repairing &amp; maintenance of CPR's</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.90</td>
<td>0.90</td>
</tr>
<tr>
<td>iii) Documentation of successful experience &amp; report preparation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.225</td>
<td>0.225</td>
</tr>
<tr>
<td></td>
<td>Total of V</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1.125</td>
</tr>
<tr>
<td></td>
<td>Grand Total</td>
<td>6%</td>
<td>2.25</td>
<td>14%</td>
<td>5.25</td>
<td>50%</td>
</tr>
</tbody>
</table>
**CHAPTER V**

**PROJECT PHASING & BUDGETING**

**ACTION PLAN OF UPPER AJU MICRO WATERSHED (IWMP) UNDER TERRITORIAL DIVISION, TURA.**

Name of District : West Garo Hills  
No. of villages Covered : 2 nos  
Name of C. & R. D. Block : Dalu  
Project Area : 750 Ha  
Name of Project: WGH-IWMP-XII  
Total Project Cost : 112.50 Lakh  

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>Administrative Cost : 10 %</td>
<td>-</td>
<td>-</td>
<td>2%</td>
<td>2.25</td>
<td>5%</td>
<td>5.625</td>
<td>3%</td>
<td>3.375</td>
<td>-</td>
<td>-</td>
<td>10%</td>
<td>11.25</td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>i) Honorarium of 1 WDT Member @ Rs.10000/- per month</td>
<td>month</td>
<td>12</td>
<td>1.20</td>
<td>12</td>
<td>1.20</td>
<td>12</td>
<td>1.20</td>
<td>3.60</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>ii) Honorarium of WC Chairman @ Rs.500/- per month</td>
<td>month</td>
<td>5</td>
<td>0.025</td>
<td>6</td>
<td>0.030</td>
<td>6</td>
<td>0.030</td>
<td>0.085</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>iii) Honorarium of WCM @ Rs.200/- per member per month</td>
<td>month</td>
<td>5</td>
<td>0.090</td>
<td>5</td>
<td>0.090</td>
<td>5</td>
<td>0.090</td>
<td>0.27</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>iv) Audit fee for Chartered Accountant</td>
<td></td>
<td>0.30</td>
<td>0.50</td>
<td>0.30</td>
<td>1.10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>vii) Hiring Charges of Vehicles</td>
<td></td>
<td>0.20</td>
<td>0.50</td>
<td>0.50</td>
<td>1.20</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>viii) Office expenses</td>
<td></td>
<td>0.435</td>
<td>3.305</td>
<td>1.255</td>
<td>4.995</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>Total Of 'A'</td>
<td></td>
<td>0</td>
<td>2.25</td>
<td>5.625</td>
<td>3.375</td>
<td>0</td>
<td>11.25</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>Preparatory Phase :</td>
<td></td>
<td>4%</td>
<td>4.50</td>
<td>4%</td>
<td>4.50</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>i) Solar street light</td>
<td>nos</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>ii) Spring chamber</td>
<td>nos</td>
<td>6</td>
<td>3.60</td>
<td>6</td>
<td>3.60</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>iii) Ringwell</td>
<td>nos</td>
<td>2</td>
<td>0.90</td>
<td>2</td>
<td>0.90</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>Total of 'B'</td>
<td></td>
<td>4.50</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>4.50</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### C. Institution & Capacity Building ; 5 %

<table>
<thead>
<tr>
<th>i) Awareness Campaign</th>
<th>nos</th>
<th>2</th>
<th>0.40</th>
<th>2</th>
<th>0.40</th>
<th>0.00</th>
<th>0.00</th>
<th>4</th>
<th>0.80</th>
</tr>
</thead>
<tbody>
<tr>
<td>ii) Exposure visits off-campus</td>
<td>nos</td>
<td>0.00</td>
<td>1</td>
<td>0.40</td>
<td>0.00</td>
<td>0.00</td>
<td>1</td>
<td>0.40</td>
<td></td>
</tr>
<tr>
<td>iii) Capacity Building of SHGs/Ugs/farmers</td>
<td>nos</td>
<td>2</td>
<td>0.40</td>
<td>4</td>
<td>0.80</td>
<td>4</td>
<td>0.80</td>
<td>14</td>
<td>2.80</td>
</tr>
<tr>
<td>iv) Capacity Building of WC members</td>
<td>nos</td>
<td>1</td>
<td>0.20</td>
<td>2</td>
<td>0.40</td>
<td>1</td>
<td>0.20</td>
<td>1</td>
<td>0.20</td>
</tr>
<tr>
<td>v) Capacity Building of WDT/W Volunteer</td>
<td>nos</td>
<td>1</td>
<td>0.125</td>
<td>1</td>
<td>0.25</td>
<td>1</td>
<td>0.125</td>
<td>1</td>
<td>0.125</td>
</tr>
</tbody>
</table>

**Total of 'C'** | 6 | 1.125 | 10 | 2.25 | 6 | 1.125 | 6 | 1.125 | 0 | 0 | 28 | 5.625 |

### D. Detail Project Report (DPR) - 1%

| i) Cost of Resources Inventories works | 0.425 |
| ii) Cost of PRA | 0.20 |
| iii) Cost of Land use survey | 0.20 |
| iv) Cost of formulating | 0.30 |

**Total of 'D'** | 1.125 | 0 | 0 | 0 | 0 | 0 | 0 | 1.125 |

### E. Monitoring - 1%

| 0.20% | 0.225 | 0.50% | 0.5625 | 0.30% | 0.3375 |

**Total of 'E'** | 0 | 0.5625 | 1.125 | 0.5625 | 0 | 2.25 |

### II Watershed Works Phase : 50 %

| A. Arable Land Treatment : |
| i) Terracing - @ Rs.20000/- ha. | Ha | 1.50 | 0.30 | 12.00 | 2.40 | 1.00 | 0.20 | 14.5 | 2.90 |
| ii) Improvement of existing paddy field@Rs.5000/- Ha | Ha | 0.00 | 0.00 | 17.20 | 0.86 | 8.20 | 0.41 | 25.4 | 1.27 |

**Total of 'A'** | 0 | 0 | 1.5 | 0.3 | 29.2 | 3.26 | 9.2 | 0.61 | 0 | 0 | 39.9 | 4.17 |

| B. Non-Arable Land Treatment : |
| i) Improvement of degraded forest - @ Rs.3600/- per ha. | Ha | 10.00 | 0.36 | 90.00 | 7.74 | 40.00 | 3.44 | 10.00 | 0.36 |
| ii) Rubber Plantation - @ Rs.8600/- per ha. | Ha | 0.00 | 0.00 | 90.00 | 7.74 | 40.00 | 3.44 | 130.00 | 11.18 |

**Total of 'B'** | 0 | 0 | 10.00 | 0.36 | 90 | 7.74 | 40 | 3.44 | 0 | 0 | 140.00 | 11.54 |
### C. Drainage Line Treatment:

<table>
<thead>
<tr>
<th>Component</th>
<th>nos</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>i) C.C. Irrigation Dam</td>
<td></td>
<td>3.00</td>
<td>2.50</td>
<td>1.00</td>
<td>1.00</td>
<td>555</td>
<td>2</td>
<td>6</td>
<td></td>
<td>15.3875</td>
<td>7.50</td>
<td>3.3875</td>
<td>12.00</td>
</tr>
<tr>
<td>ii) Water harvesting structure</td>
<td></td>
<td>9.00</td>
<td>5.00</td>
<td>7.50</td>
<td>5.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>15.3875</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>iii) Dug out Pond</td>
<td></td>
<td>0.00</td>
<td>0.00</td>
<td>7.50</td>
<td>7.50</td>
<td>0.2775</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>iv) Protection Wall</td>
<td></td>
<td>3</td>
<td>2</td>
<td>8</td>
<td>8.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>v) Earthen Irrigation Channel</td>
<td></td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>3</td>
<td>1605</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>vi) Spring chamber</td>
<td></td>
<td>3.3875</td>
<td>5.00</td>
<td>2.00</td>
<td>0.00</td>
<td>0.8025</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Total of 'C'                             |     | 0.00 | 560 | 7.7775 | 1081 | 30.6250 | 10 | 8.8875 | 0 | 0.0000 | 47.29 |

### II (A to C) Total

<table>
<thead>
<tr>
<th>Component</th>
<th>nos</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total of II (A to C)</td>
<td>Ha</td>
<td>0</td>
<td>0</td>
<td>11.50</td>
<td>8.4375</td>
<td>119.20</td>
<td>41.625</td>
<td>49.20</td>
<td>12.9375</td>
<td>0</td>
<td>0</td>
<td>179.90</td>
<td>63.00</td>
</tr>
</tbody>
</table>

### III Livelihood Activities for Assetless Person - 9%

<table>
<thead>
<tr>
<th>Component</th>
<th>nos</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vegetable cultivation @Rs.2500/- per unit</td>
<td></td>
<td>3</td>
<td>5</td>
<td>121</td>
<td>3.025</td>
<td>6.75</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tailoring unit @Rs.10000/- per unit</td>
<td></td>
<td>2</td>
<td>2</td>
<td>0.200</td>
<td>0.200</td>
<td>6.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Piggery unit @Rs.8000/- per unit</td>
<td></td>
<td>5</td>
<td>2</td>
<td>1.60</td>
<td>2.4</td>
<td>4.40</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Total of III                             |     | 0  | 0  | 28 | 1.125 | 85 | 3.375 | 153 | 5.625 | 0  | 0 | 266 | 10.125 |

### IV Production System & Micro Enterprises - 13%

<table>
<thead>
<tr>
<th>Component</th>
<th>nos</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Piggery @ Rs. 30000/- per unit</td>
<td></td>
<td>10</td>
<td>3</td>
<td>10</td>
<td>4.00</td>
<td>4.25</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Poultry @ Rs. 30000/- per unit</td>
<td></td>
<td>15</td>
<td>2</td>
<td>1</td>
<td>0.30</td>
<td>1.20</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Small grocery store</td>
<td></td>
<td>3</td>
<td>1</td>
<td>0.45</td>
<td>1.05</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power tiller</td>
<td></td>
<td>2</td>
<td>1</td>
<td>1.50</td>
<td>3.00</td>
<td>1.50</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rice mill</td>
<td></td>
<td>1</td>
<td>1</td>
<td>0.50</td>
<td>0.50</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Total of IV                              |     | 0  | 0  | 4 | 1.125 | 6 | 3.375 | 12 | 6.75 | 0  | 0 | 22 | 11.25 |

Total: 126.00
<table>
<thead>
<tr>
<th></th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
</tr>
</thead>
</table>
| V | Consolidation & withdrawal Phase - 3% | -    | -    | -    | -    | -    | -    | -    | -    | 3%   | -    | -    | 3.375
|   | i) Repairing & maintenance of CPR's   |      |      |      |      |      |      |      |      | -    | -    | 2.70 | 2.70 |
|   | iii) Documentation of successful experience & report preparation |      |      |      |      |      |      |      |      | -    | -    | 0.675| 0.675|
|   | **Total of V**                        | 0    | 0    | 0    | 0    | 0    | -    |      |      |      |      | 3.375| 3.375|
|   | **Grand Total**                       |      |      |      |      |      |      |      |      |      |      | 3%   |      | 3.375|
|   | (I + II + III + IV + V)               | 6%   | 6.75 | 14%  | 15.750| 50%  | 56.250| 27%  | 30.375| 3%   |      | 100% | 112.50|
### Chapter V

**Project Phasing & Budgeting**

**Action Plan of Rongari Micro Watershed (IWMP) Under Territorial Division, Tura.**

<table>
<thead>
<tr>
<th>Name of District: West Garo Hills</th>
<th>No. of villages Covered: 2 nos</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of C. &amp; R. D. Block: Gambegre</td>
<td>Project Area: 500 Ha</td>
</tr>
<tr>
<td>Name of Project: WGH-IWMP-XII</td>
<td>Total Project Cost: 75.00 Lakh</td>
</tr>
</tbody>
</table>

( Figures in lakh)

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Activities</th>
<th>I st Yr. (6%)</th>
<th>II nd Yr. (14%)</th>
<th>III rd Yr. (50%)</th>
<th>IV th Yr. (25%)</th>
<th>V th Yr. (5%)</th>
<th>Total 100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Management Cost :</td>
<td>.</td>
<td></td>
<td>2%</td>
<td>5%</td>
<td>3.75</td>
<td>3%</td>
</tr>
<tr>
<td>A</td>
<td>Administrative Cost : 10 %</td>
<td></td>
<td>6</td>
<td>0.60</td>
<td>12</td>
<td>1.20</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>i) Honorarium of 1 WDT Member @ Rs.10000/- per month</td>
<td>5</td>
<td>0.025</td>
<td>6</td>
<td>0.030</td>
<td>6</td>
<td>0.030</td>
</tr>
<tr>
<td></td>
<td>ii) Honorarium of WC Chairman @ Rs.500/- per month</td>
<td>4</td>
<td>0.072</td>
<td>6</td>
<td>0.108</td>
<td>5</td>
<td>0.090</td>
</tr>
<tr>
<td></td>
<td>iii) Honorarium of WCM @ Rs.200/- per member per month</td>
<td></td>
<td>0.20</td>
<td>0.50</td>
<td>0.30</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>iv) Audit fee for Chartered Accountant</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.00</td>
<td>0.50</td>
</tr>
<tr>
<td></td>
<td>vi) Hiring Charges of Vehicles</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.00</td>
<td>0.50</td>
</tr>
<tr>
<td></td>
<td>vii) Office expenses</td>
<td></td>
<td>0.603</td>
<td>1.412</td>
<td>0.380</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Of 'A'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>Preparatory Phase :</td>
<td></td>
<td></td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td></td>
<td>Entry Point Activities ; 4 %</td>
<td></td>
<td>3.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>i) Solar street light</td>
<td></td>
<td>nos</td>
<td></td>
<td></td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td></td>
<td>ii) Spring chamber</td>
<td></td>
<td>nos</td>
<td></td>
<td></td>
<td>3.00</td>
<td>1.80</td>
</tr>
<tr>
<td></td>
<td>iii) Ringwell</td>
<td></td>
<td>nos</td>
<td></td>
<td></td>
<td>3.00</td>
<td>1.20</td>
</tr>
<tr>
<td></td>
<td>Total of 'B'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>C.</td>
<td>Institution &amp; Capacity Building ; 5 %</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>i) Awareness Campaign</td>
<td>nos</td>
<td>4</td>
<td>0.75</td>
<td>1</td>
<td>0.20</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>ii) Exposure visits off-campus</td>
<td>nos</td>
<td>0</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>iii) Capacity Building of SHGs/Ugs/farmers</td>
<td>nos</td>
<td>0</td>
<td>3</td>
<td>0.60</td>
<td>2</td>
<td>0.35</td>
</tr>
<tr>
<td></td>
<td>iv) Capacity Building of WC members</td>
<td>nos</td>
<td>0</td>
<td>3</td>
<td>0.60</td>
<td>2</td>
<td>0.4</td>
</tr>
<tr>
<td></td>
<td>v) Capacity Building of WDT/W Volunteer</td>
<td>nos</td>
<td>1</td>
<td>0.10</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Total of 'C'</td>
<td></td>
<td>4</td>
<td>0.75</td>
<td>8</td>
<td>1.50</td>
<td>4</td>
</tr>
<tr>
<td>D.</td>
<td>Detail Project Report (DPR) - 1%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>i) Cost of Resources Inventories works</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ii) Cost of PRA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>iii) Cost of Land use survey</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>iv) Cost of formulating</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total of 'D'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E.</td>
<td>i) Monitoring - 1%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>F.</td>
<td>ii) Evaluation - 1%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total of 'E'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>II</td>
<td>Watershed Works Phase : 50 %</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A.</td>
<td>Arable Land Treatment :</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>i) Terracing - @ Rs.2000/- ha.</td>
<td>Ha</td>
<td>2.85</td>
<td>0.57</td>
<td>10.00</td>
<td>2.00</td>
<td>5.00</td>
</tr>
<tr>
<td></td>
<td>ii) Improvement of existing paddy field@Rs.5000/- Ha</td>
<td>Ha</td>
<td>0.00</td>
<td>0.00</td>
<td>7.00</td>
<td>0.35</td>
<td>5.90</td>
</tr>
<tr>
<td></td>
<td>Total of 'A'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### B. Non-Arable Land Treatment:

<table>
<thead>
<tr>
<th>Description</th>
<th>Ha</th>
<th>Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>i) Improvement of degraded forest - @ Rs.3600/- per ha.</td>
<td>4.00</td>
<td>0.144 40.00 1.44 5 0.18</td>
</tr>
<tr>
<td>ii) Rubber Plantation - @ Rs.8600/- per ha.</td>
<td>10.00</td>
<td>0.86 110.00 9.46 20.00 1.72</td>
</tr>
<tr>
<td>iii) Areca nut Plantation - @ Rs.8600/- per ha.</td>
<td>5.00</td>
<td>0.43 50.00 4.30 5.00 0.43</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Total of 'B'</th>
<th>0</th>
<th>0</th>
<th>19.00</th>
<th>1.434</th>
<th>200.00</th>
<th>15.20</th>
<th>30</th>
<th>2.33</th>
<th>0</th>
<th>0</th>
<th>249.00</th>
<th>18.96</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### C. Drainage Line Treatment:

<table>
<thead>
<tr>
<th>Description</th>
<th>nos</th>
<th>Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>i) C.C. Irrigation Dam</td>
<td>1</td>
<td>3.00 0.00 1 3.00</td>
</tr>
<tr>
<td>ii) Water harvesting structure</td>
<td>0</td>
<td>0.00 1 2.50 1 2.00</td>
</tr>
<tr>
<td>iii) Dug out Pond</td>
<td>1</td>
<td>0.50 6 3.00 0 0.00</td>
</tr>
<tr>
<td>iv) Protection Wall</td>
<td>0</td>
<td>0.00 6 4.20 0 0.00</td>
</tr>
<tr>
<td>v) Earthen Irrigation Channel</td>
<td>242</td>
<td>0.121 100 0.50 0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Total of 'C'</th>
<th>0</th>
<th>3.621</th>
<th>10.20</th>
<th>5.00</th>
<th>0.00</th>
<th>18.82</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Total of II (A to C)</th>
<th>Ha</th>
<th>Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0</td>
<td>221.85 5.625 217.00 27.75 40.90 8.625 0.00</td>
</tr>
</tbody>
</table>

### III. Livelihood Activities for Assetless Person - 9%

<table>
<thead>
<tr>
<th>Description</th>
<th>%</th>
<th>Rs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>i) Vegetable cultivation @ Rs.2500/- per unit</td>
<td>1</td>
<td>0.75 3% 2.25 5% 3.75</td>
</tr>
<tr>
<td>ii) Tailoring @ Rs. 10000 per unit</td>
<td></td>
<td>25 0.625 37 0.925 60 1.50</td>
</tr>
<tr>
<td>iii) Carpenter @Rs.5000/- per unit</td>
<td></td>
<td>0 0.00 2 0.20 4 0.40</td>
</tr>
<tr>
<td>iv) Vermi composting @Rs.12500/- per unit</td>
<td></td>
<td>0 0.00 4 0.20 5 0.25</td>
</tr>
<tr>
<td>v) Piggery unit @Rs.8000/- per unit</td>
<td></td>
<td>1 0.125 1 0.125 0.00</td>
</tr>
</tbody>
</table>

<p>| Total of III | 0 | 26 | 0.75 54 | 2.25 89 | 3.75 | 0 | 169 | 6.75 |</p>
<table>
<thead>
<tr>
<th>IV</th>
<th>Production System &amp; Micro Enterprises - 10%</th>
<th>1%</th>
<th>3%</th>
<th>6%</th>
<th>10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>i) Piggery unit</td>
<td>1</td>
<td>0.30</td>
<td>0.00</td>
<td>2</td>
<td>0.60</td>
</tr>
<tr>
<td>ii) Poultry unit</td>
<td>0.00</td>
<td>1</td>
<td>0.30</td>
<td>1</td>
<td>0.30</td>
</tr>
<tr>
<td>iii) Rubber nursery (nos of polybagged saplings) nos</td>
<td>900</td>
<td>0.45</td>
<td>3900</td>
<td>1.95</td>
<td>7200</td>
</tr>
<tr>
<td>Total of IV</td>
<td>0</td>
<td>0.75</td>
<td>2.25</td>
<td>4.50</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>V</th>
<th>Consolidation &amp; withdrawal Phase - 3%</th>
<th>3%</th>
<th>2.25</th>
</tr>
</thead>
<tbody>
<tr>
<td>i) Repairing &amp; maintenance of CPR's</td>
<td>1.80</td>
<td>1.80</td>
<td></td>
</tr>
<tr>
<td>ii) Documentation of successful experience &amp; report preparation</td>
<td>0.45</td>
<td>0.45</td>
<td></td>
</tr>
<tr>
<td>Total of V</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Grand Total (I + II + III + IV + V) 6% 4.5 14% 10.50 50% 37.500 27% 20.25 3% 2.25 100% 75.00
**PROJECT PHASING & BUDGETING**

**ACTION PLAN OF RONGDENG MICRO WATERSHED (IWMP) UNDER TERRITORIAL DIVISION, TURA.**

Name of District : West Garo Hills  
No. of villages Covered : 2 nos  
Name of C. & R. D. Block : Gambegre  
Project Area : 500 Ha  
Name of Project: WGH-IWMP-XII  
Total Project Cost : 75.00 Lakh  
( Figures in lakh )

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Activities</th>
<th>Phy. Yr. (6%)</th>
<th>Fin. Yr. (14%)</th>
<th>Phy. Yr. (50%)</th>
<th>Fin. Yr. (25%)</th>
<th>Phy. Yr. (5%)</th>
<th>Fin. Yr. (Total 100%)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Management Cost</td>
<td>2%</td>
<td>5%</td>
<td>3.75</td>
<td>3%</td>
<td>-</td>
<td>10% 7.50</td>
</tr>
<tr>
<td></td>
<td>A Administrative Cost : 10 %</td>
<td>6%</td>
<td>0.60</td>
<td>12</td>
<td>1.20</td>
<td>12</td>
<td>1.20 3.00</td>
</tr>
<tr>
<td></td>
<td>i) Honorarium of 1 WDT Member @ Rs.1000/- per month</td>
<td>6%</td>
<td>0.025</td>
<td>6</td>
<td>0.030</td>
<td>6</td>
<td>0.030 0.085</td>
</tr>
<tr>
<td></td>
<td>ii) Honorarium of WC Chairman @ Rs.500/- per month</td>
<td>5%</td>
<td>0.072</td>
<td>6</td>
<td>0.108</td>
<td>5</td>
<td>0.090 0.27</td>
</tr>
<tr>
<td></td>
<td>iv) Audit fee for Chartered Accountant</td>
<td>20%</td>
<td>0.20</td>
<td>0.50</td>
<td>0.30</td>
<td>0.00</td>
<td>1.00</td>
</tr>
<tr>
<td></td>
<td>vii) Hiring Charges of Vehicles</td>
<td>0.380</td>
<td>0.00</td>
<td>0.50</td>
<td>0.00</td>
<td>0.25</td>
<td>0.75</td>
</tr>
<tr>
<td></td>
<td>viii) Office expenses</td>
<td>0.402</td>
<td>1.412</td>
<td>0.380</td>
<td>0.250</td>
<td>0.00</td>
<td>2.395</td>
</tr>
<tr>
<td></td>
<td>Total of 'A'</td>
<td>0</td>
<td>1.50</td>
<td>3.75</td>
<td>2.250</td>
<td>0</td>
<td>7.50</td>
</tr>
<tr>
<td></td>
<td>Preparatory Phase :</td>
<td>4%</td>
<td>3.00</td>
<td>4%</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>B Entry Point Activities :</td>
<td>4%</td>
<td>3.00</td>
<td>4%</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>i) Solar street light</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ii) Spring chamber</td>
<td>3</td>
<td>1.80</td>
<td>3</td>
<td>1.80</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>iii) Ringwell</td>
<td>3</td>
<td>1.20</td>
<td>3</td>
<td>1.20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total of 'B'</td>
<td>3.00</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>3.00</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>----</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
<td>-----</td>
</tr>
<tr>
<td>C.</td>
<td>Institution &amp; Capacity Building ; 5%</td>
<td>1%</td>
<td>0.75</td>
<td>2%</td>
<td>1.50</td>
<td>1%</td>
<td>0.75</td>
</tr>
<tr>
<td></td>
<td>i) Awareness Campaign</td>
<td>nos</td>
<td>4</td>
<td>0.75</td>
<td>1</td>
<td>0.20</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>ii) Exposure visits off-campus</td>
<td>nos</td>
<td>0</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>iii) Capacity Building of SHGs/Ugs/farmers</td>
<td>nos</td>
<td>0</td>
<td>3</td>
<td>0.60</td>
<td>2</td>
<td>0.35</td>
</tr>
<tr>
<td></td>
<td>iv) Capacity Building of WC members</td>
<td>nos</td>
<td>0</td>
<td>3</td>
<td>0.60</td>
<td>2</td>
<td>0.4</td>
</tr>
<tr>
<td></td>
<td>v) Capacity Building of WDT/W Volunteer</td>
<td>nos</td>
<td>1</td>
<td>0.10</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total of 'C'</td>
<td>4</td>
<td>0.75</td>
<td>8</td>
<td>1.50</td>
<td>4</td>
<td>0.75</td>
<td>4</td>
</tr>
<tr>
<td>D.</td>
<td>Detail Project Report (DPR) - 1%</td>
<td>1%</td>
<td>0.75</td>
<td>0.20</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>i) Cost of Resources Inventories works</td>
<td></td>
<td>0</td>
<td>0.20</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>ii) Cost of PRA</td>
<td></td>
<td>0</td>
<td>0.20</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>iii) Cost of Land use survey</td>
<td></td>
<td>0</td>
<td>0.35</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total of 'D'</td>
<td></td>
<td>0.20</td>
<td>0</td>
<td>0.15</td>
<td>0</td>
<td>0.50</td>
<td>0</td>
</tr>
<tr>
<td>E.</td>
<td>i) Monitoring - 1%</td>
<td></td>
<td>0</td>
<td>0.20</td>
<td>0.15</td>
<td>0.50</td>
<td>0.375</td>
</tr>
<tr>
<td></td>
<td>ii) Evaluation - 1%</td>
<td></td>
<td>0</td>
<td>0.30</td>
<td>0.225</td>
<td>0.50</td>
<td>0.375</td>
</tr>
<tr>
<td>Total of 'E'</td>
<td></td>
<td>0</td>
<td>0.375</td>
<td>0.750</td>
<td>0.375</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>II</td>
<td>Watershed Works Phase : 50%</td>
<td></td>
<td>7.50%</td>
<td>5.625</td>
<td>37%</td>
<td>27.75</td>
<td>11.50%</td>
</tr>
<tr>
<td>A.</td>
<td>Arable Land Treatment :</td>
<td></td>
<td>3.00</td>
<td>0.60</td>
<td>10.00</td>
<td>2.00</td>
<td>2.00</td>
</tr>
<tr>
<td></td>
<td>i) Terracing - @ Rs.20000/- ha.</td>
<td>Ha</td>
<td>3.00</td>
<td>0.60</td>
<td>10.00</td>
<td>2.00</td>
<td>2.00</td>
</tr>
<tr>
<td></td>
<td>ii) Improvement of existing paddy field@Rs.5000/- Ha</td>
<td>Ha</td>
<td>0.00</td>
<td>0.00</td>
<td>10.00</td>
<td>0.50</td>
<td>10.00</td>
</tr>
<tr>
<td>Total of 'A'</td>
<td></td>
<td>0</td>
<td>0</td>
<td>3</td>
<td>0.60</td>
<td>20</td>
<td>2.50</td>
</tr>
<tr>
<td>B.</td>
<td>Non-Arable Land Treatment :</td>
<td></td>
<td>10.00</td>
<td>0.36</td>
<td>30.00</td>
<td>1.08</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>i) Improvement of degraded forest - @ Rs.3600/- per ha.</td>
<td>Ha</td>
<td>10.00</td>
<td>0.36</td>
<td>30.00</td>
<td>1.08</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>ii) Rubber Plantation - @ Rs.8600/- per ha.</td>
<td>Ha</td>
<td>35.00</td>
<td>3.010</td>
<td>100.00</td>
<td>8.00</td>
<td>20.00</td>
</tr>
<tr>
<td></td>
<td>iii) Areca nut Plantation - @ Rs.8600/- per ha.</td>
<td>Ha</td>
<td>10.00</td>
<td>0.86</td>
<td>40.00</td>
<td>3.44</td>
<td>5.00</td>
</tr>
<tr>
<td>Total of 'B'</td>
<td></td>
<td>0</td>
<td>0</td>
<td>55.00</td>
<td>4.230</td>
<td>170.00</td>
<td>13.120</td>
</tr>
</tbody>
</table>
### C. Drainage Line Treatment:

<p>| | | | | | | | | | | | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C.</td>
<td>Drainage Line Treatment:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>i)</td>
<td>C.C. Irrigation Dam</td>
<td>nos</td>
<td></td>
<td></td>
<td>0.00</td>
<td>1</td>
<td>3.00</td>
<td>1</td>
<td>3.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ii)</td>
<td>Water harvesting structure</td>
<td>nos</td>
<td></td>
<td></td>
<td>0</td>
<td>0.00</td>
<td>1</td>
<td>2.50</td>
<td>1</td>
<td>2.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>iii)</td>
<td>Dug out Pond</td>
<td>nos</td>
<td></td>
<td></td>
<td>1</td>
<td>0.50</td>
<td>5</td>
<td>2.50</td>
<td>0</td>
<td>0.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>iv)</td>
<td>Protection Wall</td>
<td>nos</td>
<td></td>
<td></td>
<td>0</td>
<td>0.00</td>
<td>5</td>
<td>3.50</td>
<td>0</td>
<td>0.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>v)</td>
<td>Earthen Irrigation Channel</td>
<td>rmt</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total of 'C'</td>
<td></td>
<td></td>
<td></td>
<td>0.00</td>
<td>0.795</td>
<td>12.130</td>
<td>5.40</td>
<td>0.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>18.32</td>
</tr>
</tbody>
</table>

### Total of II (A to C)

<p>| | | | | | | | | | | | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>II</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total of II (A to C)</td>
<td>Ha</td>
<td></td>
<td></td>
<td>0</td>
<td>0</td>
<td>58.00</td>
<td>5.625</td>
<td>190.00</td>
<td>27.75</td>
<td>42.00</td>
<td>8.625</td>
<td>0.00</td>
<td>0</td>
<td>290.00</td>
</tr>
</tbody>
</table>

### III Livelihood Activities for Assetless Person-10%

<p>| | | | | | | | | | | | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>III</td>
<td>Livelihood Activities for Assetless Person -10%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>i)</td>
<td>Vegetable cultivation @ Rs.2500/- per unit</td>
<td>unit</td>
<td></td>
<td></td>
<td>25</td>
<td>0.625</td>
<td>29</td>
<td>0.725</td>
<td>42</td>
<td>1.05</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>96</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ii)</td>
<td>Tailoring @ Rs. 10000 per unit</td>
<td>unit</td>
<td></td>
<td></td>
<td>0</td>
<td>0.00</td>
<td>2</td>
<td>0.20</td>
<td>4</td>
<td>0.40</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>iii)</td>
<td>Carpentry @Rs.5000/- per unit</td>
<td>unit</td>
<td></td>
<td></td>
<td>0</td>
<td>0.00</td>
<td>4</td>
<td>0.20</td>
<td>6</td>
<td>0.30</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>iv)</td>
<td>Vermi composting @Rs.12500/- per unit</td>
<td>unit</td>
<td></td>
<td></td>
<td>1</td>
<td>0.125</td>
<td>1</td>
<td>0.125</td>
<td>0.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
<td>0.25</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dugout pond @Rs.50000/- per nos</td>
<td>unit</td>
<td></td>
<td></td>
<td></td>
<td>0.00</td>
<td>2</td>
<td>1.00</td>
<td>4</td>
<td>2.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6</td>
<td>3.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total of III</td>
<td></td>
<td></td>
<td></td>
<td>0</td>
<td>0</td>
<td>26</td>
<td>0.75</td>
<td>38</td>
<td>2.25</td>
<td>56</td>
<td>3.75</td>
<td>0</td>
<td>0</td>
<td>120</td>
</tr>
</tbody>
</table>

### IV Production System & Micro Enterprises -13%

<p>| | | | | | | | | | | | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IV</td>
<td>Production System &amp; Micro Enterprises -13%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>i)</td>
<td>Piggery</td>
<td>unit</td>
<td></td>
<td></td>
<td>1</td>
<td>0.30</td>
<td>0.00</td>
<td>2</td>
<td>0.60</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
<td>0.90</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ii)</td>
<td>Poultry</td>
<td>unit</td>
<td></td>
<td></td>
<td>1</td>
<td>0.30</td>
<td>1</td>
<td>0.30</td>
<td>1</td>
<td>0.30</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>iii)</td>
<td>Rubber nursery (nos of polybagged saplings)</td>
<td>nos</td>
<td></td>
<td></td>
<td>300</td>
<td>0.15</td>
<td>3900</td>
<td>1.95</td>
<td>6200</td>
<td>3.10</td>
<td></td>
<td></td>
<td>10400</td>
<td>5.20</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>iv)</td>
<td>Rice mill</td>
<td>unit</td>
<td></td>
<td></td>
<td>1</td>
<td>0.50</td>
<td></td>
<td></td>
<td>1</td>
<td>0.50</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total of IV</td>
<td></td>
<td></td>
<td></td>
<td>0</td>
<td>0.75</td>
<td>2.25</td>
<td>4.50</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7.50</td>
</tr>
<tr>
<td></td>
<td>Consolidation &amp; withdrawal Phase - 3%</td>
<td></td>
<td></td>
<td></td>
<td>3%</td>
<td>3%</td>
<td>2.250</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>--------------------------------------</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>----</td>
<td>----</td>
<td>------</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>i)</td>
<td>Repairing &amp; maintenance of CPR's</td>
<td></td>
<td></td>
<td></td>
<td>1.80</td>
<td>1.80</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>iii)</td>
<td>Documentation of successful experience &amp; report preparation</td>
<td></td>
<td></td>
<td></td>
<td>0.45</td>
<td>0.45</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total of V</td>
<td></td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>2.25</td>
<td>2.25</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grand Total</td>
<td>( I + II + III +IV +V )</td>
<td>6%</td>
<td>4.5</td>
<td>14%</td>
<td>10.50</td>
<td>50%</td>
<td>37.500</td>
<td>27%</td>
<td>20.25</td>
<td>3%</td>
<td>2.25</td>
<td>100%</td>
<td>75.00</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
CHAPTER V
PROJECT PHASING & BUDGETING
ACTION PLAN OF CHIPRA MICRO WATERSHED (IWMP) UNDER TERRITORIAL DIVISION, TURA.

Name of District : West Garo Hills
No. of villages Covered : 2 nos
Name of C. & R. D. Block : Zikzak
Project Area : 500 Ha
Name of Project: WGH-IWMP-XII
Total Project Cost 75.00 Lakh
(Figures in lakh)

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Activities</th>
<th>I st Yr. (6%)</th>
<th>II nd Yr. (14%)</th>
<th>III rd Yr. (50%)</th>
<th>IV th Yr. (25%)</th>
<th>V th Yr. (5%)</th>
<th>Total 100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Management Cost :</td>
<td>-</td>
<td>2%</td>
<td>1.5</td>
<td>5%</td>
<td>3.75</td>
<td>3%</td>
</tr>
<tr>
<td>A</td>
<td>Administrative Cost : 10 %</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>i) Honorarium of 1 WDT Member @ Rs.1000/- per month</td>
<td>month</td>
<td>0.00</td>
<td>12</td>
<td>1.20</td>
<td>12</td>
<td>1.20</td>
<td>2.40</td>
</tr>
<tr>
<td>ii) Honorarium of WC Chairman @ Rs.500/- per month</td>
<td>month</td>
<td>0.025</td>
<td>6</td>
<td>0.030</td>
<td>6</td>
<td>0.030</td>
<td>0.085</td>
</tr>
<tr>
<td>iii) Honorarium of WCM @ Rs.200/- per member per month</td>
<td>month</td>
<td>0.072</td>
<td>6</td>
<td>0.108</td>
<td>5</td>
<td>0.090</td>
<td>0.27</td>
</tr>
<tr>
<td>iv) Audit fee for Chartered Accountant</td>
<td></td>
<td>0.20</td>
<td>0.50</td>
<td>0.30</td>
<td></td>
<td></td>
<td>1.00</td>
</tr>
<tr>
<td>vii) Hiring Charges of Vehicles</td>
<td></td>
<td>0.00</td>
<td>0.50</td>
<td>0.25</td>
<td></td>
<td></td>
<td>0.75</td>
</tr>
<tr>
<td>viii) Office expenses</td>
<td></td>
<td>1.203</td>
<td>1.412</td>
<td>0.380</td>
<td></td>
<td></td>
<td>2.995</td>
</tr>
<tr>
<td>Total Of 'A'</td>
<td></td>
<td>0</td>
<td>1.50</td>
<td>3.75</td>
<td>2.25</td>
<td>0</td>
<td>7.50</td>
</tr>
<tr>
<td>B</td>
<td>Preparatory Phase :</td>
<td>4%</td>
<td>3.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>i) Solar street light</td>
<td>nos</td>
<td>2</td>
<td>0.80</td>
<td></td>
<td></td>
<td>2</td>
<td>0.80</td>
</tr>
<tr>
<td>ii) Spring chamber</td>
<td>nos</td>
<td>3</td>
<td>1.80</td>
<td></td>
<td></td>
<td>3</td>
<td>1.80</td>
</tr>
<tr>
<td>iii) Ringwell</td>
<td>nos</td>
<td>1</td>
<td>0.40</td>
<td></td>
<td></td>
<td>1</td>
<td>0.40</td>
</tr>
<tr>
<td>Total of 'B'</td>
<td></td>
<td>3.00</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>3.00</td>
</tr>
</tbody>
</table>
### C. Institution & Capacity Building - 5%

<table>
<thead>
<tr>
<th>Sub-Category</th>
<th>No.</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>i) Awareness Campaign</td>
<td>4</td>
<td>0.75%</td>
</tr>
<tr>
<td>ii) Exposure visits off-campus</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>iii) Capacity Building of SHGs/Ugs/farmers</td>
<td>3</td>
<td>0.60%</td>
</tr>
<tr>
<td>iv) Capacity Building of WC members</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>v) Capacity Building of WDT/W Volunteer</td>
<td>1</td>
<td>0.10%</td>
</tr>
</tbody>
</table>

**Total of 'C'**

|   | 4 | 0.75 | 1.50 | 4 | 0.75 | 4 | 0.75 | 0 | 0 | 20 | 3.75 |

### D. Detail Project Report (DPR) - 1%

<table>
<thead>
<tr>
<th>Sub-Category</th>
<th>No.</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>i) Cost of Resources Inventories works</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>ii) Cost of PRA</td>
<td>0.20</td>
<td>0.20%</td>
</tr>
<tr>
<td>iii) Cost of Land use survey</td>
<td>0.20</td>
<td>0.20%</td>
</tr>
<tr>
<td>iv) Cost of formulating</td>
<td>0.350</td>
<td>0.35%</td>
</tr>
</tbody>
</table>

**Total of 'D'**

|   | 0.75 | 0 | 0 | 0 | 0 | 0.75 |

### E. Monitoring - 1%

<table>
<thead>
<tr>
<th>Sub-Category</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>i) Monitoring</td>
<td>0.20%</td>
</tr>
<tr>
<td>ii) Evaluation</td>
<td>0.30%</td>
</tr>
</tbody>
</table>

**Total of 'E'**

|   | 0 | 0.375 | 0.750 | 0.375 | 0 | 1.50 |

### II Watershed Works Phase - 50%

#### A. Arable Land Treatment:

<table>
<thead>
<tr>
<th>Sub-Category</th>
<th>No.</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>i) Terracing @ Rs.20000/- ha.</td>
<td>7.50</td>
<td>5.625%</td>
</tr>
<tr>
<td>ii) Improvement of existing paddy field@Rs.5000/- Ha</td>
<td>0.00</td>
<td>0.00%</td>
</tr>
</tbody>
</table>

**Total of 'A'**

|   | 0 | 0 | 7.5 | 1.5 | 5.6 | 0.28 | 6 | 1.2 | 0 | 0 | 19.1 | 2.98 |

#### B. Non-Arable Land Treatment:

<table>
<thead>
<tr>
<th>Sub-Category</th>
<th>No.</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>i) Improvement of degraded forest @ Rs.3600/- per ha.</td>
<td>5.00</td>
<td>0.18%</td>
</tr>
<tr>
<td>ii) Rubber Plantation @ Rs.15000/- per ha.</td>
<td>0.00</td>
<td>0.00%</td>
</tr>
</tbody>
</table>

**Total of 'B'**

|   | 0 | 0 | 5.00 | 0.18 | 70 | 6.02 | 0 | 0 | 0 | 0 | 75.00 | 6.20 |

1 2 3 4 5 6 7 8 9 10 11 12 13 14
### C. Drainage Line Treatment:

<p>| | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>C.C. Irrigation Dam</td>
<td>nos</td>
<td>1</td>
<td>2.945</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Water harvesting structure</td>
<td>nos</td>
<td>0</td>
<td>0.00</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Dug out Pond</td>
<td>nos</td>
<td>2</td>
<td>1.00</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td>Protection Wall</td>
<td>nos</td>
<td>0</td>
<td>0.00</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Earthen Irrigation Channel</td>
<td>rnt</td>
<td>0</td>
<td>900</td>
<td>0.45</td>
</tr>
</tbody>
</table>

**Total of C**

<p>| | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>3.945</td>
<td>21.450</td>
<td>7.425</td>
<td>0.00</td>
</tr>
</tbody>
</table>

### Total of II (A to C)

|   | Ha | 0 | 0 | 12.50 | 5.625 | 75.60 | 27.750 | 6.00 | 8.6250 | 0.00 | 0 | 94.10 | 42.00 |

### III Livelihood Activities for Assetless Person - 10%

<p>| | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Vegetable cultivation @ Rs.2500/- per unit</td>
<td>unit</td>
<td>22</td>
<td>0.55</td>
<td>74</td>
</tr>
<tr>
<td></td>
<td>Tailoring @ Rs. 10000 per unit</td>
<td>unit</td>
<td>2</td>
<td>0.20</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Carpentry @Rs.5000/- per unit</td>
<td>unit</td>
<td>0</td>
<td>0.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>

**Total of III**

<p>| | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0</td>
<td>0</td>
<td>24</td>
<td>0.75</td>
<td>78</td>
</tr>
</tbody>
</table>

### IV Production System & Micro Enterprises - 13%

<p>| | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Piggery</td>
<td>unit</td>
<td>1</td>
<td>0.30</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Poultry</td>
<td>unit</td>
<td>1</td>
<td>0.30</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Rubber nursery (nos of polybagged saplings)</td>
<td>nos</td>
<td>0</td>
<td>0.00</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Group vegetable cultivation</td>
<td>unit</td>
<td>1</td>
<td>0.15</td>
<td>1</td>
</tr>
</tbody>
</table>

**Total of IV**

<p>| | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0</td>
<td>0</td>
<td>0.75</td>
<td>2.25</td>
<td>4.50</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>---</td>
<td>-----</td>
<td>--------------------------------</td>
<td>----</td>
<td>----</td>
<td>----</td>
</tr>
<tr>
<td>V</td>
<td></td>
<td>Consolidation &amp; withdrawal Phase - 3%</td>
<td>.</td>
<td>.</td>
<td>.</td>
</tr>
<tr>
<td></td>
<td>i)</td>
<td>Repairing &amp; maintenance of CPR's</td>
<td>.</td>
<td>.</td>
<td>.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Documentation of successful experience &amp; report preparation</td>
<td>.</td>
<td>.</td>
<td>.</td>
</tr>
<tr>
<td>Total of V</td>
<td></td>
<td></td>
<td></td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Grand Total</td>
<td>(I + II + III + IV + V)</td>
<td>6%</td>
<td>4.5</td>
<td>14%</td>
<td>10.50</td>
</tr>
</tbody>
</table>
## Project Phasing & Budgeting

**Action Plan of Godal Micro Watershed (IWMP) Under Territorial Division, Tura.**

**Name of District:** West Garo Hills  
**Name of C. & R. D. Block:** Zikzak  
**Name of Project:** WGH-IWMP-XII  
**Project Area:** 500 Ha  
**Total Project Cost:** 75.00 Lakh

### Management Cost:

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Management Cost :</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Administrative Cost : 10%</td>
<td>2%</td>
<td>1.5</td>
<td>5%</td>
<td>3.75</td>
<td>3%</td>
<td>2.25</td>
<td>-</td>
<td>-</td>
<td>10%</td>
<td>7.50</td>
<td></td>
</tr>
<tr>
<td></td>
<td>i) Honorarium of 1 WDT Member @ Rs.10000/- per month</td>
<td>0.00</td>
<td>0.80</td>
<td>12</td>
<td>1.20</td>
<td>12</td>
<td>1.20</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>2.40</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ii) Honorarium of WC Chairman @ Rs.500/- per month</td>
<td>0.025</td>
<td>0.072</td>
<td>6</td>
<td>0.108</td>
<td>5</td>
<td>0.090</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>0.085</td>
<td></td>
</tr>
<tr>
<td></td>
<td>iii) Honorarium of WCM @ Rs.200/- per member per month</td>
<td>0.20</td>
<td>0.00</td>
<td>0.50</td>
<td>0.108</td>
<td>6</td>
<td>0.090</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>0.27</td>
<td></td>
</tr>
<tr>
<td></td>
<td>iv) Audit fee for Chartered Accountant</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.75</td>
</tr>
<tr>
<td></td>
<td>vii) Hiring Charges of Vehicles</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1.00</td>
</tr>
<tr>
<td></td>
<td>viii) Office expenses</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2.995</td>
</tr>
<tr>
<td></td>
<td><strong>Total Of 'A'</strong></td>
<td>0</td>
<td>1.50</td>
<td>3.75</td>
<td>2.25</td>
<td>0</td>
<td>7.50</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Preparatory Phase:

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Preparatory Phase :</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Entry Point Activities ; 4%</td>
<td>4%</td>
<td>3.00</td>
<td>4%</td>
<td>3.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>i) Solar street light</td>
<td>nos</td>
<td>2</td>
<td>0.80</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.80</td>
</tr>
<tr>
<td></td>
<td>ii) Spring chamber</td>
<td>nos</td>
<td>3</td>
<td>1.80</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1.80</td>
</tr>
<tr>
<td></td>
<td>iii) Ringwell</td>
<td>nos</td>
<td>1</td>
<td>0.40</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.40</td>
</tr>
<tr>
<td></td>
<td><strong>Total of 'B'</strong></td>
<td>3.00</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>3.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(Figures in lakh)
<p>| | | | | | | | | | | | | | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C.</td>
<td>Institution &amp; Capacity Building : 5 %</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>i) Awareness Campaign</td>
<td>nos</td>
<td>4</td>
<td>0.75</td>
<td>1</td>
<td>0.20</td>
<td>0</td>
<td>0</td>
<td>5</td>
<td>0.95</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ii) Exposure visits off-campus</td>
<td>nos</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>iii) Capacity Building of SHGs/Ugs/farmers</td>
<td>nos</td>
<td>0</td>
<td>3</td>
<td>0.60</td>
<td>2</td>
<td>0.35</td>
<td>2</td>
<td>0.4</td>
<td>7</td>
<td>1.35</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>iv) Capacity Building of WC members</td>
<td>nos</td>
<td>0</td>
<td>3</td>
<td>0.60</td>
<td>2</td>
<td>0.4</td>
<td>2</td>
<td>0.35</td>
<td>7</td>
<td>1.35</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>v) Capacity Building of WDT/W Volunteer</td>
<td>nos</td>
<td>1</td>
<td>0.10</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0.10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total of 'C'</td>
<td></td>
<td>4</td>
<td>0.75</td>
<td>8</td>
<td>1.50</td>
<td>4</td>
<td>0.75</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D.</td>
<td>Detail Project Report (DPR) - 1%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>i) Cost of Resources Inventories works</td>
<td></td>
<td></td>
<td>0.20</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ii) Cost of PRA</td>
<td></td>
<td></td>
<td>0.20</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>iii) Cost of Land use survey</td>
<td></td>
<td></td>
<td>0.20</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>iv) Cost of formulating</td>
<td></td>
<td></td>
<td>0.350</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total of 'D'</td>
<td></td>
<td></td>
<td>0.75</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>i) Monitoring - 1%</td>
<td></td>
<td></td>
<td>0.20%</td>
<td>0.15</td>
<td>0.50%</td>
<td>0.375</td>
<td>0.30%</td>
<td>0.225</td>
<td>1%</td>
<td>0.75</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>F.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ii) Evaluation - 1%</td>
<td></td>
<td></td>
<td>0.30%</td>
<td>0.225</td>
<td>0.50%</td>
<td>0.375</td>
<td>0.20%</td>
<td>0.15</td>
<td>1%</td>
<td>0.75</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total of 'E'</td>
<td></td>
<td></td>
<td>0.0</td>
<td>0.375</td>
<td>0.750</td>
<td>0.375</td>
<td></td>
<td></td>
<td>0</td>
<td>0.75</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>II</td>
<td>Watershed Works Phase : 50 %</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A.</td>
<td>Arable Land Treatment :</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>i) Terracing - @ Rs.20000/- ha.</td>
<td>Ha</td>
<td>7.5</td>
<td>1.50</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>7.5</td>
<td>1.50</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ii) Improvement of existing paddy field@Rs.5000/- Ha</td>
<td>Ha</td>
<td>0.00</td>
<td>0.00</td>
<td>2.16</td>
<td>0.108</td>
<td>6.60</td>
<td>0.33</td>
<td>8.76</td>
<td>0.438</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total of 'A'</td>
<td></td>
<td>0</td>
<td>0</td>
<td>7.5</td>
<td>1.5</td>
<td>2.16</td>
<td>0.108</td>
<td>6.6</td>
<td>0.33</td>
<td>0</td>
<td>0</td>
<td>16.26</td>
<td>1.94</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### B. Non-Arable Land Treatment:

<table>
<thead>
<tr>
<th></th>
<th>Ha</th>
<th>5.00</th>
<th>0.18</th>
<th>0</th>
<th>45.00</th>
<th>3.87</th>
<th>5.00</th>
<th>0.18</th>
</tr>
</thead>
<tbody>
<tr>
<td>i) Improvement of degraded forest - @ Rs.3600/- per ha.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ii) Rubber Plantation - @ Rs.8600/- per ha.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total of 'B'</strong></td>
<td></td>
<td>0.00</td>
<td>0.18</td>
<td>72</td>
<td>6.19</td>
<td>45.00</td>
<td>3.87</td>
<td>117.00</td>
</tr>
</tbody>
</table>

### C. Drainage Line Treatment:

<p>| | | | | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>i) C.C. Irrigation Dam</td>
<td>nos</td>
<td>1</td>
<td>2.945</td>
<td>1</td>
<td>3.00</td>
<td>0</td>
<td>0.00</td>
<td>2</td>
</tr>
<tr>
<td>ii) Water harvesting structure</td>
<td>nos</td>
<td>0</td>
<td>0.00</td>
<td>3</td>
<td>7.50</td>
<td>1</td>
<td>2.425</td>
<td>4</td>
</tr>
<tr>
<td>iii) Dug out Pond</td>
<td>nos</td>
<td>2</td>
<td>1.00</td>
<td>11</td>
<td>5.50</td>
<td>2</td>
<td>1.00</td>
<td>15</td>
</tr>
<tr>
<td>iv) Protection Wall</td>
<td>nos</td>
<td>0</td>
<td>0.00</td>
<td>5</td>
<td>5.00</td>
<td>1</td>
<td>1.00</td>
<td>6</td>
</tr>
<tr>
<td>v) Earthen Irrigation Channel</td>
<td>rmt</td>
<td>0</td>
<td>900</td>
<td>0.45</td>
<td>0</td>
<td>0</td>
<td>900</td>
<td>0.4500</td>
</tr>
<tr>
<td><strong>Total of 'C'</strong></td>
<td></td>
<td>0.00</td>
<td>3.945</td>
<td>21.450</td>
<td>4.425</td>
<td>0.00</td>
<td>29.82</td>
<td></td>
</tr>
</tbody>
</table>

### Total of I (A to C)

|                | Ha | 0 | 0 | 12.50 | 5.625 | 74.16 | 27.750 | 51.60 | 8.6250 | 0.00 | 0 | 138.26 | 42.00 |

### III Livelihood Activities for Assetless Person - 10%

<p>| | | | | | | | | | | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>i) Vegetable cultivation @ Rs.2500/- per unit</td>
<td>unit</td>
<td>22</td>
<td>0.55</td>
<td>78</td>
<td>1.95</td>
<td>138</td>
<td>3.45</td>
<td>238</td>
<td>5.95</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ii) Tailoring @ Rs. 10000 per unit</td>
<td>unit</td>
<td>2</td>
<td>0.20</td>
<td>3</td>
<td>0.30</td>
<td>3</td>
<td>0.3</td>
<td>8</td>
<td>0.8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>iii) Carpentry @Rs.5000/- per unit</td>
<td>unit</td>
<td>0</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total of III</strong></td>
<td></td>
<td>0</td>
<td>0</td>
<td>24</td>
<td>0.75</td>
<td>81</td>
<td>2.25</td>
<td>141</td>
<td>3.75</td>
<td>0</td>
<td>0</td>
<td>246</td>
<td>6.75</td>
<td></td>
</tr>
</tbody>
</table>
### IV Production System & Micro Enterprises - 13%

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>1%</th>
<th>3%</th>
<th>6%</th>
<th>10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>i) Piggery</td>
<td>unit</td>
<td>1</td>
<td>0.30</td>
<td>4</td>
<td>1.20</td>
</tr>
<tr>
<td>ii) Poultry</td>
<td>unit</td>
<td>1</td>
<td>0.30</td>
<td>3</td>
<td>0.90</td>
</tr>
<tr>
<td>iii) Group vegetable cultivation</td>
<td>nos</td>
<td>1</td>
<td>0.15</td>
<td>1</td>
<td>0.15</td>
</tr>
</tbody>
</table>

| Total of IV |   | 0.75 | 2.25 | 4.50 | 0 | 7.50 |

### V Consolidation & withdrawal Phase - 3%

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>3%</th>
<th>1.80</th>
<th>0.45</th>
</tr>
</thead>
<tbody>
<tr>
<td>i) Repairing &amp; maintenance of CPR's</td>
<td></td>
<td>2.25</td>
<td>3%</td>
<td>1.80</td>
</tr>
<tr>
<td>ii) Documentation of successful experience &amp; report preparation</td>
<td></td>
<td>0.45</td>
<td>0.45</td>
<td></td>
</tr>
</tbody>
</table>

| Total of V |   | 0 | 0 | 0 | 0 | 2.25 | 2.25 |

| Grand Total |   | 6% | 4.5 | 14% | 10.50 | 50% | 37.500 | 27% | 20.25 | 3% | 2.25 | 100% | 75.00 |
## CONVERGENCE PLAN UNDER IWMP PROJECT-XII

<table>
<thead>
<tr>
<th>Name of Watershed</th>
<th>Name of village</th>
<th>Name of activity</th>
<th>Proposed Target</th>
<th>MGNERGS</th>
<th>Mandays required</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Physical (nos)</td>
<td>Financial (Rs.in Lakhs)</td>
<td>Physical (nos)</td>
</tr>
<tr>
<td>Chipra</td>
<td>Chipra</td>
<td>Dugout Pond</td>
<td>4</td>
<td>1.9968</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Water Harvesting structure</td>
<td>1</td>
<td>3.00</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Rongchumgre</td>
<td>Dugout pond</td>
<td>7</td>
<td>3.4944</td>
<td>7</td>
</tr>
<tr>
<td>Godal</td>
<td>Chepagre</td>
<td>Dugout Pond</td>
<td>5</td>
<td>2.496</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Tallinggre</td>
<td>Dugout Pond</td>
<td>2</td>
<td>6.00</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Water Harvesting structure</td>
<td>4</td>
<td>1.9968</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Water Harvesting structure</td>
<td>1</td>
<td>3.00</td>
<td>1</td>
</tr>
<tr>
<td>Upper Aju</td>
<td>sanjengpara</td>
<td>Dugout Pond</td>
<td>4</td>
<td>1.9968</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Ajugre</td>
<td>Water Harvesting structure</td>
<td>2</td>
<td>6.00</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dugout Pond</td>
<td>5</td>
<td>2.496</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Water Harvesting structure</td>
<td>2</td>
<td>6.00</td>
<td>2</td>
</tr>
<tr>
<td>Lower Aju</td>
<td>Madagre</td>
<td>Dugout Pond</td>
<td>5</td>
<td>2.496</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Water Harvesting structure</td>
<td>3</td>
<td>9.00</td>
<td>3</td>
</tr>
<tr>
<td>Rongari</td>
<td>Rongbretgre</td>
<td>Dugout Pond</td>
<td>4</td>
<td>1.9968</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Water Harvesting structure</td>
<td>1</td>
<td>3.00</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Rongari Ading</td>
<td>Dugout Pond</td>
<td>4</td>
<td>1.9968</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Water Harvesting structure</td>
<td>1</td>
<td>3.00</td>
<td>1</td>
</tr>
<tr>
<td>Rongdeng</td>
<td>Samplagre</td>
<td>Dugout Pond</td>
<td>4</td>
<td>1.9968</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Galwanggre</td>
<td>Water Harvesting structure</td>
<td>1</td>
<td>3.00</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dugout Pond</td>
<td>4</td>
<td>1.9968</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Water Harvesting structure</td>
<td>2</td>
<td>6.00</td>
<td>2</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td>60</td>
<td>72.96</td>
<td>60</td>
</tr>
</tbody>
</table>
Details of the types of areas covered under the IWMP Programme:

<table>
<thead>
<tr>
<th>Names of Projects</th>
<th>Year of sanction</th>
<th>Project duration (dd/mm/yyyy)</th>
<th>Area of the projects to be treated (treatable area)</th>
<th>Project cost (Rs. In lakh)</th>
<th>Names of Micro watersheds &amp; Code nos. (as per DoLR’s unique codification)</th>
<th>Treatable area (As per LULC)</th>
<th>Area details (ha) (falling within the projects) (As per ownership)</th>
</tr>
</thead>
<tbody>
<tr>
<td>W.G.H IWMP-XII</td>
<td>2011-12</td>
<td>2011-12 to 2015-16</td>
<td>3000.00</td>
<td>450</td>
<td>Chipra, Godal, U.Aju, Rongdeng Rongari</td>
<td>742.1Ha.</td>
<td>2257.90Ha.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>a) Temporary fallow</td>
<td>164 ha</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>b) Permanent</td>
<td>124.0 ha</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Agri. Land</td>
<td>1912.00 ha</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Forest land</td>
<td>800.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Comm unity land</td>
<td>3000</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Others (pl. specify)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Horticulture &amp; Build up</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Area</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Total area (ha)</td>
<td></td>
</tr>
</tbody>
</table>
Fund provision for the IWMP projects from all sources:

<table>
<thead>
<tr>
<th>Name of Projects</th>
<th>IWMP Fund</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Central Share</td>
<td>State Share</td>
<td>Name of Scheme</td>
<td>Amount (Lakhs)</td>
<td>Name of private sector</td>
<td>Financial contribution</td>
<td>Name</td>
<td>Financial contribution</td>
</tr>
<tr>
<td>W.G.H IWMP-XII</td>
<td>405</td>
<td>45</td>
<td>MNREGS</td>
<td>72.96</td>
<td>NIL</td>
<td>NIL</td>
<td>NIL</td>
<td>NIL</td>
</tr>
</tbody>
</table>
## Details of Project Fund Accounts of Distt. Agency and Watershed Committees:

<table>
<thead>
<tr>
<th></th>
<th>Distt. Agency’s Project Account details</th>
<th>Watershed Committee (WC) account details:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Names of Projects</td>
<td>Name of the Bank and Branch where project account has been opened</td>
<td>Name of the Bank and Branch where project account has been opened</td>
</tr>
<tr>
<td>W.G.H IWMP-XII</td>
<td>State Bank Of India.</td>
<td>Axis Bank Hawakhana &amp; State Bank Of India.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Current</td>
</tr>
<tr>
<td></td>
<td>savings</td>
<td></td>
</tr>
<tr>
<td></td>
<td>S Ch Sangma DSWCO</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chairman W.C Secretary W.C Project Leader/WDT</td>
</tr>
</tbody>
</table>
### Details of convergence of IWMP with other Schemes

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>District</th>
<th>Names of projects</th>
<th>Names of Departments with Schemes converging with IWMP</th>
<th>Fund to be made available to IWMP due to convergence (Rs. in lakh)</th>
<th>Name of activity/task/structure undertaken with converged funds</th>
<th>Reference no. of activity/ task/ structure in DPR</th>
<th>Level at which decision for convergence was taken</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>West Garo Hills</td>
<td>WGH – IWMP-XII * Community Rural Development Department NREGS</td>
<td></td>
<td>72.96</td>
<td>A) Dugout Pond B) Water Harvesting Structure</td>
<td>-</td>
<td>Block Level &amp; District Level</td>
</tr>
</tbody>
</table>
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 stakeholders 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:

<table>
<thead>
<tr>
<th>S. No</th>
<th>State</th>
<th>Name of the Training Institute</th>
<th>Full Address with contact no., website &amp; e-mail</th>
<th>Name &amp; Designation of the Head of Institute</th>
<th>Type of Institute</th>
<th>Area(s) of specialization</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Meghalaya</td>
<td>NIRD (NER)</td>
<td>Guwahati</td>
<td>Director</td>
<td>Central Govt.</td>
<td>Remote Sensing, Rural Devt.</td>
</tr>
<tr>
<td>2</td>
<td>Meghalaya</td>
<td>SIRD</td>
<td>Nongsdai</td>
<td>Director</td>
<td>State Govt.</td>
<td>Capacity Building</td>
</tr>
<tr>
<td>3</td>
<td>Meghalaya</td>
<td>RRTC</td>
<td>Umran</td>
<td>Director</td>
<td>Don-Bosco</td>
<td>Agri-Horti, Animal Husbandry, Entrepreneurship</td>
</tr>
<tr>
<td>4</td>
<td>Meghalaya</td>
<td>ICAR</td>
<td>Umiam</td>
<td>Director</td>
<td>Central Govt.</td>
<td>Do</td>
</tr>
<tr>
<td>5</td>
<td>Meghalaya</td>
<td>VTC</td>
<td>Kyrdem Kulai</td>
<td>Director</td>
<td>State Govt.</td>
<td>Animal Husbandry</td>
</tr>
<tr>
<td>6</td>
<td>Meghalaya</td>
<td>Fruit Garden</td>
<td>Shillong</td>
<td>Director</td>
<td>State Govt.</td>
<td>Agri-Horti, Fruit Processing</td>
</tr>
</tbody>
</table>

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

(i) Technical experts in fields required by IWMP
(ii) Past experiences
(iii) Annual Turnover
(iv) Receives funds either from the Central or State Government
(v) Publications
(vi) Not blacklisted by any Govt. organizations
(vii) Audited accounts
(viii) Organizational structure
Table 6.2: Capacity Building activities for the year 2011 – 12 as on 31/03/2012 (dd/mm/yyyy)*

<table>
<thead>
<tr>
<th>Project</th>
<th>Type of Training/ Capacity Building</th>
<th>Agency/Institution to provide training</th>
<th>No. of Trainings targeted during each financial year</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>1st Year</td>
<td>2nd Year</td>
</tr>
<tr>
<td>PIAs</td>
<td>a) Project Management</td>
<td>a) NIRD</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>b) GIS application</td>
<td>b) SIRD</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>c) Projectization</td>
<td>c) ICAR</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>d) Entrepreneurship</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WDTs</td>
<td>a) Project concept</td>
<td>a) NIRD</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>b) GIS application</td>
<td>b) SIRD</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>c) Projectization</td>
<td>c) PIA</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>d) ICAR</td>
<td>d) ICAR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UGs</td>
<td>a) Asset Management</td>
<td>a) PIA</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>SHGs</td>
<td>a) SHG concept &amp; management</td>
<td>a) NGOs</td>
<td>2</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td>b) Entrepreneurship</td>
<td>b) PIA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WCAs</td>
<td>a) Project Concept &amp; Management</td>
<td>a) PIA</td>
<td>1</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>b) Natural Resource management</td>
<td>b) Line Department</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>c) Livelihood related activities</td>
<td>c) NGOs</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>d) Microenterprise &amp; Marketing</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GPs</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Community</td>
<td>a) Project Concept &amp; Management</td>
<td>a) PIA</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>b) Natural Resource management</td>
<td>b) Line Department</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>c) Livelihood related activities</td>
<td>c) NGOs</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>d) Microenterprise &amp; Marketing</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Others</td>
<td>Pl. specify)</td>
<td>a) ICAR</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>b) RRTC</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Activity</th>
<th>Executing agency</th>
<th>Estimated expenditure (Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. a) Pamplets</td>
<td>S&amp;WC (T) Division</td>
<td>0.156</td>
</tr>
<tr>
<td>2. b) Banners</td>
<td>S&amp;WC (T) Division</td>
<td></td>
</tr>
</tbody>
</table>
CHAPTER VII
EXPECTED OUTCOME
### Table 7.1 Employment related outcomes:

<table>
<thead>
<tr>
<th>Sl No</th>
<th>Name of Villages</th>
<th>Wage employment</th>
<th>Self employment</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>No. of mandays</td>
<td>No. of beneficiaries</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SC ST Men Women Total</td>
<td>SC ST Men Women Total</td>
</tr>
<tr>
<td>1.</td>
<td>Chipra</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>2.</td>
<td>Rongchumgre</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>3.</td>
<td>Chepagre</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>4.</td>
<td>Tallinggre</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>5.</td>
<td>Sanjengpara</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>6.</td>
<td>Ajugre</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>7.</td>
<td>Madagre</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>8.</td>
<td>Rongbretgre</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>9.</td>
<td>Rongari Ading</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>10.</td>
<td>Sampalgre</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>11.</td>
<td>Galwanggre</td>
<td>100%</td>
<td>100%</td>
</tr>
</tbody>
</table>

### Table 7.2 Migration Details:

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of village</td>
<td>No. of persons migrating</td>
<td>No. of days per year of migration</td>
<td>Major reason(s) for migrating</td>
<td>Distance of destination of migration from the village (km)</td>
<td>Occupation during migration</td>
<td>Income from such occupation (Rs. in lakh)</td>
<td>For reduced migration identify major activities of IWMP responsible</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(a) Structures</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Table 7.3.1 Status of Drinking water:

<table>
<thead>
<tr>
<th></th>
<th>1 Availability of drinking water (no. of monyhs in a year)</th>
<th>2 Quality of drinking water</th>
<th>3 Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pre-project</td>
<td>Post-project</td>
<td>Change in availability</td>
</tr>
<tr>
<td>Insufficient</td>
<td>Insufficient</td>
<td>Sufficient</td>
<td>10-12 Months</td>
</tr>
</tbody>
</table>

### Table 7.3.2 Water Use efficiency:

<table>
<thead>
<tr>
<th></th>
<th>1 Name of the project</th>
<th>2 Name of major crop</th>
<th>3 Water savings in cu.m.</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>through water saving devices(^s)</td>
<td>through water conserving agronomic practices(^s)</td>
<td>Any other (pl specify)</td>
<td>Total</td>
</tr>
<tr>
<td>WGH</td>
<td>Paddy</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>IWMP-XII</td>
<td>Maize</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
</tbody>
</table>

\(^s\) Sprinkler, Drip, PVC pipe, etc.  
\(^#\) Vermi-compost, organic manuring, Mulching, Check basin, Alternate furrow, Ridges & furrow & other scientific practices.
### Table 7.4: Vegetation/crop related outcomes:

#### Table 7.4.1 Details of Karif crop area and yield in the project areas:

<table>
<thead>
<tr>
<th>Name of Projects</th>
<th>Name of crops</th>
<th>Pre-project</th>
<th>Mid-term</th>
<th>Post-project</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Area (ha)</td>
<td>Average Yield (Qtl) per ha.</td>
<td>Total Production (Qtl)</td>
</tr>
<tr>
<td>WGH IWMP-XII</td>
<td>Paddy</td>
<td>-</td>
<td>142.97</td>
<td>- 12</td>
</tr>
<tr>
<td></td>
<td>Maize</td>
<td>-</td>
<td>40</td>
<td>- 26</td>
</tr>
<tr>
<td></td>
<td>Vegetable</td>
<td>-</td>
<td>7</td>
<td>- 30</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>- 189.97</td>
<td>- 68</td>
<td>- 2965.64</td>
</tr>
</tbody>
</table>

Irri. – Irrigated  Rf – Rainfed
Table 7.4.2 Details of Rabi crop area and yield in the project areas:

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Project</td>
<td>Name of crops</td>
<td>Pre-project</td>
<td>Mid-term</td>
<td>Post-project</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Area (ha)</td>
<td>Average Yield (Qtl per ha)</td>
<td>Total Production (Qtl)</td>
</tr>
<tr>
<td>WGH IWMP XII</td>
<td>Paddy</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Vegetable</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Total</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Irri. – Irrigated  Rf – Rainfed

Table 7.4.3 Details of Zaid crop area and yield in the project areas of the Country: State-wise:

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Project</td>
<td>Name of crops</td>
<td>Pre-project</td>
<td>Mid-term</td>
<td>Post-project</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Area (ha)</td>
<td>Average Yield (Qtl per ha)</td>
<td>Total Production (Qtl)</td>
</tr>
<tr>
<td>WGH IWMP XII</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Irri. – Irrigated  Rf – Rainfed
### Table 7.4.4 Availability of Fodder:

<table>
<thead>
<tr>
<th>Name of project</th>
<th>Duration of Project</th>
<th>Source/Name of report</th>
<th>Year of reference</th>
<th>Area already under fodder</th>
<th>Area under fodder proposed to be covered through IWMP</th>
<th>Area under fodder actually covered through IWMP</th>
<th>Change in area under fodder</th>
</tr>
</thead>
<tbody>
<tr>
<td>W.G.H IWMP-XII</td>
<td>5 yrs</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

### Table 7.4.5 Increase/Decrease in Forest/vegetation cover:

<table>
<thead>
<tr>
<th>Name of project</th>
<th>Duration of Project</th>
<th>Source/Name of report</th>
<th>Year of reference</th>
<th>Area already under forest/vegetative cover</th>
<th>Expected outcome (ha)</th>
<th>Change in forest/vegetative cover area</th>
</tr>
</thead>
<tbody>
<tr>
<td>W.G.H IWMP-XII</td>
<td>5 yrs</td>
<td>NESAC LULC</td>
<td>2006-07</td>
<td>852.88 ha</td>
<td>124 ha.</td>
<td>124 ha</td>
</tr>
</tbody>
</table>
Table 7.4.6 Increase/ Decrease in area under horticulture:

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of project</td>
<td>Duration of Project</td>
<td>Existing area under horticulture (ha)</td>
<td>Achievement (ha)</td>
</tr>
<tr>
<td>Source/Name of report</td>
<td>Year of reference</td>
<td>Area already under horticulture</td>
<td>Area under horticulture proposed to be covered through IWMP</td>
</tr>
<tr>
<td>Source/Name of report</td>
<td>Area under horticulture actually covered through IWMP</td>
<td>Change in area under horticulture</td>
<td></td>
</tr>
<tr>
<td>W.G.H IWMP-XII</td>
<td>5 yrs</td>
<td>NESAC LULC</td>
<td>2006-07</td>
</tr>
</tbody>
</table>

Table 7.4.7 Increase/ Decrease in area under fuel-wood:

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of project</td>
<td>Duration of Project</td>
<td>Pre Project Area (ha)</td>
<td>Post Project Area (ha)</td>
</tr>
<tr>
<td>Source/Name of report</td>
<td>Year of reference</td>
<td>Area already under fuel-wood</td>
<td>Area under fuel-wood proposed to be covered under IWMP</td>
</tr>
<tr>
<td>Source/Name of report</td>
<td>Area under fuel-wood actually covered under IWMP</td>
<td>Change in area under fuel-wood</td>
<td></td>
</tr>
<tr>
<td>W.G.H IWMP-XII</td>
<td>5 yrs</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
Table 7.5 Livelihood related outcomes:

Table 7.5.1 Details of livestock in the project areas (for fluids please mention in litres, for solids please mention in kgs. and income in Rs.):

<table>
<thead>
<tr>
<th>Name of Projects</th>
<th>Type of Animal</th>
<th>Pre-project</th>
<th>Mid-term</th>
<th>Post-project</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>W.G.H IWMP-XII</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Piggery</td>
<td>225</td>
<td>800kg</td>
<td>250000</td>
<td>560</td>
<td>Increased</td>
</tr>
<tr>
<td>Poultry</td>
<td>1800</td>
<td>1000kg</td>
<td>130000</td>
<td>2500</td>
<td>Increased</td>
</tr>
</tbody>
</table>


Table 7.6 Benefit Cost Analysis

<table>
<thead>
<tr>
<th>District</th>
<th>Name of project</th>
<th>Name of WC</th>
<th>Name of structure/activity</th>
<th>Estimated cost (Rs.)</th>
<th>Expected quantifiable benefits (Rs.)</th>
<th>Benefit: Cost ratio #</th>
</tr>
</thead>
<tbody>
<tr>
<td>West Garo Hills</td>
<td>WGH IWMP XII</td>
<td>Chipra Godal Lower Aju Upper Aju Rongdeng Rongari.</td>
<td>As per work plan</td>
<td>11830750</td>
<td>6150576</td>
<td>1:1.3</td>
</tr>
</tbody>
</table>

# B:C ratio more than 1 – cost effective
less than 1   – Not cost effective
ANNEXURE I

MAPS
LIST OF MAPS OF W.G.H. IWMP-XII

1. Lower Aju Maps.

2. Upper Aju Maps.

3. Rongari Maps.

4. Rongdeng Maps.

5. Chipra Maps.

DRAINAGE MAP OF LOWER AJU MICROWATERSHED
(WGH-IWMP-XII)

Area = 293.31 Ha

LEGEND
- Settlement
- First order stream
- Second order stream
- Third order stream
- River
- Boundary

Prepared by:
DIVIDC
Tata Aid & Water Cons
SLOPE MAP OF LOWER AJU MICROWATERSHED (WGH-IWM-P-XII)

Area = 293.31 Ha

LEGEND

SLOPE (%)

0
0 - 10
10 - 30
30 - 50
> 50

Prepared by:
DIVUDC
Town & Water Care
PROPOSED LAND USE LAND COVER MAP OF LOWER AJU

PROPOSED LULC MAP OF LOWER AJU MICROWATERSHED
(WGH-IWMP-XII)

Area = 293.31 Ha

LEGEND
- Drainage
- Improvement of degraded forest
- Agriculture
- Horticulture & Cashcrop Plantation

Prepared by:

[Name]

[Organization]
PROPOSED ENGINEERING MAP OF LOWER AJU MICRO WATERSHED

PROPOSED ENGINEERING STRUCTURES OF LOWER AJU MICROWATERSHED (WGH-IWMP-XII)

Legend
- Protection Wall
- Farm Pond
- Water Harvesting Structure
- Irrigation Dam
- Drainage
- Boundary

Prepared by:
DVS/DCC
Territorial & Water Cons.
SLOPE MAP OF UPPER AJU MICROWATERSHED
(WGH-IWMP-XII)

Area=792.30 Ha

LEGEND
SLOPE (°)
0
0 - 29
29 - 59
59 - 89
89

Prepared at:
DWDC,
Tuna Soil & Water Cons
DRAINAGE MAP OF RONGARI MICRO WATERSHED.
LAND USE LAND COVER MAP OF RONGARI MICRO WATERSHED

LULC MAP OF RONGARI MICRO WATERSHED UNDER WGH-IWMP PROJECT-XII

Legend
- Current Jhum: 55.26
- Horticulture: 274.62
- Wasteland: 183.76
- Tree Clad open: 135.30
- Agriculture: 13.50
DRAINAGE MAP OF RONGDENG MICRO WATERSHED

Legend
- Road
- Village
- Tributaries
- Stream
- Boundary

1 (Kilometers)
SLOPE MAP OF RONGDENG MICRO WATERSHED
UNDER WGH-IWMP PROJECT-XII

Legend
Slope Range
- 0 - 11%
- 11 - 23%
- 23 - 34%
- 34 - 46%
- 46 - 57%
- 57%

1 (Kilometers)
PROPOSED ENGINEERING MAP OF RONGDENG MICRO WATERSHED
Elevation Map of Chipra Watershed

Legend

Elevation (in Mtr)
- 40
- 40 - 49
- 49 - 59
- 59 - 69
- 69 - 79
- 79 - 89
- 89 - 99
- 99 - 109
- 109

Prepared at DWDC, Tura Soil & Water Cons (T.)
Proposed LULC map of Chipra Watershed

Proposed LULC Map of Chipra Micro-Watershed
Under WGH-IWMP-XII

Legend
- drainage
- forest
- agriculture
- Afforestation
- Horticulture & Cash crop plantation

Prepared at DWCDC, Tura Soil & Water Cons. (T) Div.
DRAINAGE MAP OF GODAL MICROWATERSHED (IWMP-XII)

Prepared at:
DWCD,
TuraSoil & Water Cons(T)Division

Area=841.34 Ha

LEGEND
- settlement
- Drainage
- Boundary
Proposed Land Use Land Cover of Godal Watershed

Proposed LULC Map of Godal Micro-Watershed
Under WGH- IWMP-XII

Legend
- Drainage
- agriculture
- horticulture & cash crop plantation
- forest

Prepared at DWCDC, Tura Soil & Water Cons.(T) Div
PROPOSED ENGINEERING MAP OF GODAL MICRO WATERSHED

Proposed Engineering Structure of Godal Micro Watershed
Under WGH-IWMP-XII

Legend
- Protection Wall
  - Dug out pond
  - Water harvesting Str
  - CC_irri_Dam
  - Ringwell
  - Spring Chamber
  - boundary

Prepared at DWCDC, Tura Soil & Water Cons. (T) Div.
ANNEXTURE – II

COST ESTIMATE
MODEL NORMS PER HECTARE 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 x W x S m³ 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

B. Cost estimate.

Amount.

i) Jungle clearance including uprooting of stumps (L/s) 2000.00
ii) Cost of terracing @ Rs. 10/- m³ 15000.00
iii) Cost of shoulder Bund @ Rs. 7/- m³ 850.00
iv) Dressing, shaping and grading of terrace 950.00
v) Water Disposal structure (L/s) 1200.00

G. Total 20000.00

(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)*

<table>
<thead>
<tr>
<th>A. Preliminary works</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>i) site clearance 3 mandays @ Rs. 100/- each</td>
<td>Rs. 300.00</td>
</tr>
<tr>
<td>ii) Pit digging (0.30 x 0.30 x 0.30) m 100 nos. @ Rs. 4/- each</td>
<td>Rs. 400.00</td>
</tr>
<tr>
<td><strong>sub-total</strong></td>
<td><strong>Rs. 700.00</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>B. I st year Planting</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>i) Cost of planting material 100 nos. @ Rs. 8/- each</td>
<td>Rs. 800.00</td>
</tr>
<tr>
<td>ii) Cost of planting 100 nos. @ Rs. 2/- each</td>
<td>Rs. 200.00</td>
</tr>
<tr>
<td>iii) Round weeding 4 times - 5 mandays @ Rs. 100/- each</td>
<td>Rs. 500.00</td>
</tr>
<tr>
<td>iv) Plant protection measures 4 mandays @ Rs. 100/- each</td>
<td>Rs. 400.00</td>
</tr>
<tr>
<td><strong>sub-total</strong></td>
<td><strong>Rs. 1900.00</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C. II year Planting</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>i) Refilling 10%</td>
<td>Rs. 100.00</td>
</tr>
<tr>
<td>ii) Round weeding - 4 times - 5 mandays @ Rs. 100/- each</td>
<td>Rs. 500.00</td>
</tr>
<tr>
<td>iii) Plant protection measures - 4 mandays @ Rs. 100/- each</td>
<td>Rs. 400.00</td>
</tr>
<tr>
<td><strong>Sub-total</strong></td>
<td><strong>Rs. 1000.00</strong></td>
</tr>
<tr>
<td><strong>Grand Total</strong></td>
<td><strong>Rs. 3600.00</strong></td>
</tr>
</tbody>
</table>

(Rupees three thousand six hundred) only.
MODEL NORMS PER HECTARE FOR RUBBER CULTIVATION.

Spacing - (4.75 x 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...

...............Rs. 1350.00

sub-total Rs. 9000.00

B.

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.

IInd year maintenance.

i) 2nd year weeding Rs. 2700.00

Sub-total Rs. 2700.00

Grand Total Rs. 8600.00

( Rupeeseight thousand six hundred) only.
MODEL NORMS PER HECTARE FOR ARECANUT CULTIVATION.

Spacing - (4.75 x 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...

.........Rs. 1350.00

Sub-total Rs. 2200.00

B.

I st 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 SPRING CHAMBER WITH PLATFORM.
(Rates as per P.W.D’S S.O.R. for Roads, Bridges and E & D Works, 2009 – 2010)

1/134 Excavation for structures.
   1. Ordinary soil.
      A. Manual means.
         (i) Upto 3.00 m. depth.
            1 x 5.00 x 0.50 x 0.90 = 2.25 m³
            2 x 3.10 x 0.60 x 0.80 = 2.98 m³
            1 x 3.80 x 0.60 x 0.80 = 1.82 m³
            1 x 2.50 x 3.80 x 0.25 = 2.38 m³
            1 x 5.00 x 2.00 x 0.25 = 2.50 m³
            1 x 3.00 x 0.55 x 0.25 = 0.41 m³

         = 12.34 m³

         @ Rs. 47/- m³

         ...........

         Rs.5,79.98

2/141(A)Plain/reinforced cement concrete in open foundation…..etc.

   1 x 5.00 x 0.50 x 0.90 = 2.25 m³
   1 x 5.00 x 0.25 + 0.50 x 1.00= 1.87 m³

   2

   1 x 5.00 x 2.00 x 0.10 = 1.00 m³
   1 x 5.00 x 0.15 x 0.15 = 0.11 m³
   1 x 1.85 x 0.15 x 0.15 = 0.04 m³
   1 x 1.60 x 0.15 x 0.15 = 0.03 m³
   1 x 3.00 x 0.55 x 0.10 = 0.17 m³
   2 x 3.00 x 0.15 x 0.15 = 0.14 m³


         = 5.61 m³

         @ Rs. 4090/-m³

         ...........

         Rs.22,944.90

Contd….2/-
3/140(b) Providing stone masonry works in cement mortar 1:3 ....etc.

\[
\begin{align*}
2 \times 3.10 \times 0.60 \times 0.85 & = 3.16 \text{m}^3 \\
2 \times 3.10 \times 0.30 + 0.60 \times 1.35 & = 3.77 \text{m}^3 \\
1 \times 3.80 \times 0.60 \times 0.85 & = 1.94 \text{m}^3 \\
1 \times 3.80 \times 0.30 + 0.60 \times 1.35 & = 2.31 \text{m}^3 \\
\frac{2}{2} & = 11.18 \text{m}^3
\end{align*}
\]

@ Rs. 2714/- \text{m}^3 \\
\ldots.............. \quad \text{Rs.30,342.52}

4/103 Providing and laying of dry stone rubble flooring complete....etc.

\[
\begin{align*}
1 \times 2.50 \times 3.80 \times 0.30 & = 2.85 \text{m}^3 \\
1 \times 2.00 \times 5.00 \times 0.25 & = 2.50 \text{m}^3 \\
1 \times 3.00 \times 0.55 \times 0.25 & = 0.41 \text{m}^3 \\
\frac{1}{1} & = 5.76 \text{m}^3
\end{align*}
\]

@ Rs. 1065/- \text{m}^3 \\
\ldots.............. \quad \text{Rs.6,134.40}

GRAND TOTAL : - \quad \text{Rs.60,001.80}

Say, Rs. 60,000/- (Rupees Sixty thousand) only.
DRAWING OF SPRING CHAMBER WITH PLATFORM

NOT TO SCALE.

PLAN

SECTION OF SPRING CHAMBER
ESTIMATE FOR THE CONSTRUCTION OF WATER HARVESTING STRUCTURES.
(Rates as P.W.D. S.O.R. for Roads, Bridges and E & D works 2009-2010).

1/134. Excavation for structures.
   (I) Ordinary Soil.
   A. Manual means.
   (i) Upto 3m depth.
   Core wall  
   \[ 1 \times 14.00 \times 1.30 \times 1.25 = 22.75 \text{m}^3 \]
   L/Channel  
   \[ 1 \times 10.00 \times 1.60 \times 1.15 = 18.40 \text{m}^3 \]
   \[ = 41.15 \text{m}^3 \]
   \[ @ \text{Rs.} 47/- \text{m}^3 \]
   \[ \text{Rs.1,934.05} \]

2/137. P.C.C 1:3:6 in foundation........etc.
   Core wall  
   \[ 1 \times 14.00 \times 1.20 \times 0.25 = 4.20 \text{m}^3 \]
   \[ @ \text{Rs.3571/- \text{m}^3} \]
   \[ \text{Rs 14,998.20} \]

3/141. Plain/reinforced c.c in open foundation complete.
   (A)P.C.C M-15.
   Core wall  
   \[ 1 \times 14.00 \times 1.40 + 1.00 \times 4.00 = 39.20 \text{m}^3 \]
   L/channel  
   \[ 2 \times 10.00 \times 0.20 \times 1.15 = 4.60 \text{m}^3 \]
   \[ 1 \times 10.00 \times 1.20 \times 0.10 = 1.20 \text{m}^3 \]
   \[ = 45.00 \text{m}^3 \]
   \[ @ \text{Rs.} 4090/- \text{m}^3 \]
   \[ \text{Rs.1,84,050.00} \]

   Dam/Embarkment : 
   \[ 1 \times 14.00 \times 2.50 + 9.50 \times 3.50 = 294.00 \text{m}^3 \]
   \[ \frac{2}{2} \]
   Less : 
   \[ 1 \times 14.00 \times 0.40 + 0.80 \times 3.00 = (-) 25.20 \text{m}^3 \]
   \[ \frac{2}{2} \]
   \[ = 268.80 \text{m}^3 \]
   \[ @ \text{Rs.} 71/- \text{m}^3 \]
   \[ \text{Rs.19,084.80} \]

5/100(I) Providing and laying stones/boulders pitching
   On slope.................etc.
   (I) Stone/boulders.
   Dam/Embarkment U/S : 
   \[ 1 \times 14.00 \times 4.95 \times 0.25 = 17.33 \text{m}^3 \]
   L/channel  
   \[ 1 \times 10.00 \times 1.20 \times 0.25 = 3.00 \text{m}^3 \]
   \[ = 20.33 \text{m}^3 \]
   \[ @ \text{Rs} \ 1086/- \text{m}^3 \]
   \[ \text{Rs. 22,078.38} \]

6/37. Turfing with sods.
   Dam (Embarkment) D/S : 
   \[ 1 \times 14.00 \times 4.95 = 69.30 \text{m}^3 \]
   \[ @ \text{Rs.} 46/- \text{m}^2 \]
   \[ \text{Rs. 3,187.80} \]

7/30(i) Excavation in cutting in soil by manual means for earthen channel…etc.
   Earthen channel:
   \[ 1 \times 80.00 \times 1.50 \times 1.00 = 100.00 \text{m}^3 \]
   \[ @ \text{Rs.} 47/- \text{m}^3 \]
   \[ \text{Rs.4,700.00} \]

\[ \text{GRAND TOTAL} = \text{Rs.2,50,033.23} \]
\[ \text{Say} = \text{Rs.2,50,000/-} \]
\[ (\text{Rupees Two lakhs fifty thousand}) \text{ only}. \]
1/134. Excavation for structures.
   (i) Ordinary Soil.
      (A) Manual Means.
         (i) Upto 3m depth.

   M/Dam    : 1 x 6.00 x 1.20 x 1.20 = 8.64m³
   G/wall   : 2 x 4.60 x 0.60 x 1.00 = 5.52m³
   W/wall   : 2 x 4.00 x 0.60 x 1.00 = 4.80m³
   T/wall   : 1 x 4.60 x 0.50 x 1.00 = 2.30m³
   Apron    : 1 x 4.60 x 4.00 x 0.35 = 6.44m³
   D/channel : 1 x 7.00 x 1.40 x 1.15 = 11.27m³

   @ Rs. 47/- m³ .......... Rs. 1,831.59

2/137. P.C.C 1:3:6 in foundation......etc.

   Main/Dam   : 1 x 6.00 x 1.20 x 0.25 = 1.80m³

   @ Rs. 3571/- m³ .......... Rs. 6,427.80

3/141. Plain/reinforced c.c in open foundation complete.
      (A) P.C.C M- 15.

   M/Dam    : 1 x 6.00 x 1.00 x 1.00 = 6.00m³
      1 x 6.00 x 0.50 + 1.00 x 2.00 = 9.00m³
         2
   2 x 1.00 x 0.50 x 0.75 = 0.75m³

   G/wall   : 2 x 4.60 x 0.60 x 1.00 = 5.52m³
      2 x 5.50 x 0.30 + 0.60 x 2.75 = 13.61m³
         2
   Less     : 2 x ½ x 3.00 x 0.30 + 0.43 x 1.25 = (-) 1.37m³
      2
   2 x ½ x 0.50 x 0.50 + 1.00 x 2.00 = (-) 0.75m³
         2

   W/wall   : 2 x 4.00 x 0.60 x 1.00 = 4.80m³
      2 x 4.00 x 0.30 + 0.60 x 2.75 = 9.90m³
         2
Less : \[1 \times 1.00 \times 0.50 \times 0.85 = (-0.43) \text{m}^3\]  
T/wall : \[1 \times 4.60 \times 0.40 \times 1.00 = 1.84 \text{m}^3\]

Apron : \[1 \times 6.05 \times 4.00 \times 0.15 = 3.63 \text{m}^3\]  
D/channel : \[2 \times 7.00 \times 0.20 \times 1.15 = 3.22 \text{m}^3\]  
\[1 \times 7.00 \times 1.00 \times 0.10 = 0.70 \text{m}^3\]  
\[\text{---------------} = 56.42 \text{m}^3\]

@ Rs. 4090/- m\(^3\) .......... Rs.2,30,757.80

4/140(b). Stone masonry work in cement mortar 1:3 in foundation  
Complete as drawing and technical.

Apron : \[1 \times 4.00 \times 4.60 \times 0.25 = 4.60 \text{m}^3\]  
\[1 \times 4.00 \times \frac{1}{2} \times 1.50 \times 2.00 = 6.00 \text{m}^3\]  
D/channel : \[1 \times 7.00 \times 1.00 \times 0.25 = 1.75 \text{m}^3\]  
\[\text{---------------} = 12.35 \text{m}^3\]

@ Rs. 2714/- m\(^3\) .......... Rs.33,517.90

5/30(i) Excavation in cutting in soil by means with lead upto 50m.

E/channel : \[1 \times 390.00 \times 1.50 + 1.00 \times 1.20 \times \frac{1}{2} = 585.00 \text{m}^3\]

@ Rs. 47/- m\(^3\) .......... Rs.27,495.00

\[\text{---------------} \]

GRAND TOTAL = Rs.3,00,030.09

Say, Rs.3,00,000/- (Rupees Three lakhs) only.
**ESTIMATE FOR THE CONSTRUCTION OF C.C. CHECK DAM**

(Rates as per P.W.D. S.O.R. for Roads, Bridges and E&D works 2009 - 2010)

1/134. Excavation for structures.
   (I) Ordinary Soil.
   (A) Manual Means.
   (i) Upto 3m depth.

<table>
<thead>
<tr>
<th>Structure</th>
<th>Dimensions</th>
<th>Volume m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>M/Dam</td>
<td>1 x 6.00 x 1.20 x 1.15</td>
<td>8.28</td>
</tr>
<tr>
<td>G/wall</td>
<td>2 x 4.60 x 0.60 x 0.80</td>
<td>4.42</td>
</tr>
<tr>
<td>W/wall</td>
<td>2 x 4.00 x 0.60 x 0.80</td>
<td>3.84</td>
</tr>
<tr>
<td>T/wall</td>
<td>1 x 4.60 x 0.50 x 1.00</td>
<td>2.30</td>
</tr>
<tr>
<td>Apron</td>
<td>1 x 4.60 x 4.00 x 0.35</td>
<td>6.44</td>
</tr>
</tbody>
</table>

= 25.28 m³

@ Rs. 47/- m³

Rs. 1,188.16

2/137. P.C.C 1:3:6 in foundation etc.

<table>
<thead>
<tr>
<th>Structure</th>
<th>Dimensions</th>
<th>Volume m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main/Dam</td>
<td>1 x 6.00 x 1.20 x 0.10</td>
<td>0.72</td>
</tr>
</tbody>
</table>

@ Rs. 3571/- m³

Rs. 2,571.12

3/141. Plain/reinforced c.c in open foundation complete.
   (A) P.C.C M-15.

<table>
<thead>
<tr>
<th>Structure</th>
<th>Dimensions</th>
<th>Volume m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>M/Dam</td>
<td>1 x 6.00 x 1.00 x 1.00</td>
<td>6.00</td>
</tr>
<tr>
<td></td>
<td>1 x 6.00 x 0.50 + 1.00 x 1.50</td>
<td>6.75</td>
</tr>
<tr>
<td></td>
<td>2 x 1.00 x 0.50 x 0.75</td>
<td>0.75</td>
</tr>
<tr>
<td>G/wall</td>
<td>2 x 4.60 x 0.60 x 0.80</td>
<td>4.42</td>
</tr>
<tr>
<td></td>
<td>2 x 5.50 x 0.30 + 0.60 x 2.25</td>
<td>11.14</td>
</tr>
<tr>
<td>Less</td>
<td>2 x ½ x 3.00 x 0.30 + 0.43 x 1.25</td>
<td>-1.36</td>
</tr>
<tr>
<td></td>
<td>2 x ½ x 0.50 x 0.50 + 1.00 x 1.50</td>
<td>-0.56</td>
</tr>
<tr>
<td>W/wall</td>
<td>2 x 4.00 x 0.60 x 0.80</td>
<td>3.84</td>
</tr>
<tr>
<td></td>
<td>2 x 4.00 x 0.30 + 0.60 x 2.25</td>
<td>8.10</td>
</tr>
<tr>
<td>T/wall</td>
<td>1 x 4.60 x 0.40 x 1.00</td>
<td>1.84</td>
</tr>
<tr>
<td>Apron</td>
<td>1 x 6.05 x 4.00 x 0.10</td>
<td>2.42</td>
</tr>
</tbody>
</table>

= 43.34 m³

@ Rs. 4090/- m³

Rs. 1,77,260.60

4/140(b). Stone masonry work in cement mortar 1:3 in foundation

Complete as drawing and technical.
Apron:

\[
\begin{align*}
1 \times 4.00 \times 4.60 \times 0.25 &= 4.60 \text{m}^3 \\
1 \times 4.00 \times \frac{1}{2} \times 1.00 \times 1.50 &= 2.40 \text{m}^3 \\
\hline
&= 7.00 \text{m}^3
\end{align*}
\]

@ Rs. 2714/- m\(^3\) 

\[\text{Rs.18,998.00}\]

GRAND TOTAL = Rs.2,00,017.88

Say, Rs.2,00,000/- (Rupees Two lakhs) only.
ESTIMATE FOR THE CONSTRUCTION OF DUG OUT FARM POND.
(Ref: - As per P.W.D. S.O.R. for Roads, Bridges and E & D Works, 2009 – 2010)

1/30(i) Excavation in cutting in soil by manual means
for dug out farm pond.
Vol: \( \frac{D(T(A \times T)) + 4(A \times M) + (A \times B)}{6} \)
\[ = \frac{2.00(30.00 \times 20.00) + 4(28.00 \times 18.00) + (26.00 \times 16.00)}{6} \]
\[ = 1010.67 \text{ m}^3 \]
\[ \text{@ Rs. } 47/- \text{ m}^3 \]
\[ = \text{Rs. 47,501.49} \]

2/44(i) Surface drains in soil…..etc.
A. Manual means.
   Length = 100.00 metres.
   \[ \text{@ Rs. 25/- m.} \]
\[ \text{---------} \]
\[ \text{Rs. 2,500.00} \]

\[ \text{GRAND TOTAL: - Rs. 50,001.49} \]

Say, Rs. 50,000/-
(Rupees Fifty thousand) only
DRAWING OF DUG OUT FARM POND

Not to Scale

PLAN

G.L.  20.00  16.00  S-11

Loose Soil

C/S AT S-S'
ESTIMATE FOR THE CONSTRUCTION OF EARTHEN CHANNEL.
(Rates as per P.W.D.S.O.R. for Roads, Bridges and E & D Works, 2009 – 2010)

1/30(i) Excavation in cutting in soil by manual means………………..etc.
Earthen Channel: 1 x 480.00 x 1.50 + 1.00 x 0.85 = 510.00m³

\[
\frac{2}{2} \times \text{@ Rs. 47/- m}^3 \quad \text{Rs. 23,970.00}
\]

Total: Rs. 23,970.00
Say, Rs. 24,000/- (Rupees Twenty four thousand) only.
ESTIMATE FOR THE CONSTRUCTION OF RINGWELL .
(Rates as per P.W.D. S.O.R. for Building Works, 2010 – 2011)

1/1.1 Earthwork in excavation in foundation……….etc.
(a) In ordinary soil.

\[
\begin{align*}
1 & \times \frac{\pi}{4} \times (1.20)^2 \times 8.50 = 9.61 m^3 \\
1 & \times \frac{\pi}{4} \times (3.50)^2 \times 0.30 = 2.88 m^3 \\
1 & \times 2.00 \times 0.55 \times 0.30 = 0.33 m^3 \\
\text{Less:} & \quad 1 \times \frac{\pi}{4} \times (1.20)^2 \times 0.30 = (-) 0.34 m^3 \\
\hline
\end{align*}
\]

\[= 12.48 m^3 \]

@ Rs. 63/-m\(^3\) …………………………………… Rs. 786.24

2/2.9 (b) Providing steel shuttering including centering……….etc.

\[
\begin{align*}
1 & \times \pi \times 1.00 \times 9.50 = 29.83 m^2 \\
1 & \times \pi \times 1.20 \times 1.00 = 3.77 m^2 \\
\hline
\end{align*}
\]

\[= 33.60 m^2 \]

@ Rs. 330/-m\(^2\) ……………………………….. Rs. 11,088.00

3/6.2 (a) Providing tor steel reinforcement for RCC works……….etc.

\[
\begin{align*}
8 \text{mm dia:} & \\
29 & \times 9.50 \times 0.39 = 107.45 Kg. \\
6 \text{mm dia:} & \\
76 & \times 3.65 \times 0.22 = 61.03 Kg. \\
\hline
\end{align*}
\]

\[= 168.48 Kg. \text{ or say, 1.70 Qntl.} \]

@ Rs. 7089/- Qntl. ………………………………………… Rs. 12,051.30

4/2.3 Providing and laying c.c. works in prop. 1:2:4 ………….etc.

\[
\begin{align*}
1 & \times \pi \times 1.20 \times 0.10 \times 9.50 = 3.58 m^3 \\
1 & \times \pi \times 3.50 \times 1.00 \times 0.10 = 1.10 m^3 \\
1 & \times \pi \times 3.50 \times 0.15 \times 0.15 = 0.25 m^3 \\
1 & \times 2.00 \times 0.55 \times 0.10 = 0.11 m^3 \\
2 & \times 2.00 \times 0.15 \times 0.15 = 0.09 m^3 \\
\hline
\end{align*}
\]

\[= 5.13 m^3 \]

@ Rs. 4682/-m\(^3\) ………………………………………… Rs. 24,018.66

5/4.5 Providing 100mm thick soling with approved quality of stones…..etc.

\[
\begin{align*}
1 & \times \pi \times 3.60 \times 1.00 = 11.30 m^2 \\
1 & \times 2.00 \times 0.55 = 1.10 m^2 \\
\hline
\end{align*}
\]

\[= 12.40 m^2 \]

@ Rs. 166/-m\(^2\) ………………………………………… Rs. 2,058.40

\[\]

GRAND TOTAL: \quad = \quad Rs. 50,002.60

Say, Rs. 50,000/- (Rupees Fifty thousand ) only.
DRAWING OF RING WELL

NOT TO SCALE

C/S. OF RING WELL

PLAN

DIAMETER 3.10

0.35

0.10

0.15

0.25

0.15

0.20

0.26

SOLING

Depth
ESTIMATE FOR THE CONSTRUCTION OF PROTECTION WALL.
(Rates as per P.W.D. S.O.R. for Roads, Bridges and E & D Works, 2009 – 2010)

1/134 Excavation for structures.

1. Ordinary soil.
   A. Manual means.
   (i). Upto 3.00 m. depth.

\[
1 \times 12.00 \times 1.55 \times \frac{1}{2} \times (1.50 + 1.05) = 23.72m^3 \\
1 \times 12.00 \times \frac{1}{2} \times 1.55 \times 0.53 = 4.93m^3 \\
\hline
28.65m^3
\]

@ Rs. 47/- m\(^3\)  
………………………….                  Rs.  1,346.55

2/137 P.C.C. 1:3:6 in foundation………..etc.

\[
1 \times 12.00 \times 1.55 \times 0.20 = 3.72 m^3
\]

@ Rs. 3571/-m\(^3\)  
………………………………………………………………….. Rs. 13,284.12

3/140 Stone masonry works in cement mortar 1:3 in foundation….etc.
   (b) Random rubble masonry.

\[
1 \times 12.00 \times 0.60 + 1.30 \times 2.50 = 28.50m^3 \\
1 \times 12.00 \times \frac{1}{2} \times 1.30 \times 0.38 = 2.96m^3 \\
\hline
= 31.46m^3
\]

@ Rs. 2714/- m\(^3\)  
………………………………………………………………….. Rs. 85,382.44

GRAND TOTAL: Rs. 1,00,013.11

Say, Rs. 1,00,000/- (Rupees One lakh)only.
ANNEXTURE –II

MoA, SUB COMMITTEE DETAILS ETC.
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 converged with Watershed Project/ Programme within West Garo Hills District.

Dated: Tura
The 16th December, 2011

(Sanjay Goyal)
Deputy Commissioner,
West Garo Hills Distr, Tura
Urangpara 11-King
Aliah: Urangpara
P.O. Kimpot
Dist. West Cams Ville Inghabexa
Date 26-07-2009

Subject: Wokma Document:
Anga bint dibella marak 11-King
Wokma iano intake sue anenga.

Chongmaten ien angri 11-Kingi mngi
Longegipa ili: Chijna Sonkha 11-King
Departmenti giita joko mae 11-Drulga
kachina giita iano anga 11-King Wokma
ang iku enga lalda iano sue
anenga.

Jako su aneni laurangko bali
dangjaw.

Jako su anegiipa,
Urangpara 11-King Wokma
Sint dibella marak
Date 26-8-09
Nokma Document

Anga Shi Pollen A. Sangma Chepagra
Aking Nokma. Onge, angni Akingri mingo
Onngipa Tallingpa. Sangat onge kilin giner.
Anga da Sangma Governmenti gita je dasteptab.
Dake nortbinka inu documenthe Sii onenga.
Tallingpa Sangma dastepte da dake Shiddi.
Nortbinka marnyng mungkani mo khorshadin
dengsina, anga lako kusi onge je dasteptabo
nortbinka Sii onpganga.

Jado Sii Onngipa Chepagra
Sangmi Aking Nokma. Shi Pollen A. Sangma

[Signature]
NO OBJECTION CERTIFICATE OF THE AKING NOKMA FOR LOWER AJU MICROWATERSHED DEVELOPMENT PROJECT TO BE TAKEN UP UNDER IWMP PROJECT BY TURA SOIL & WATER CONSERVATION (T) DIVISION

The Aking Nokma of MADRAGAE village under LOWER AJU Micro-watershed project, WGH-IWMP-XII has No Objection to the developmental activities to be undertaken in my Aking land by Soil & Water Conservation Department.

The villagers of MADRAGAE Aking Land are ready to accept the Development Scheme after clear understanding of the objectives and the activities proposed under the project to be implemented in our Watershed area.

There will be No Objection in future from the villagers of the watershed area as they have understood the objectives of the proposed scheme of the Soil & Water Conservation Department.

Name & Signature of Aking Nokma

Bremjallom Marak.
Pa. B. R. Marak
Nokma II - 18 (58) 'C'
Rohonpara Aking
West Garo Hills

Countersigned by

Divisional Officer,
Tura Soil & Water Cons(T) Division
West Garo Hills, Meghalaya
NO OBJECTION CERTIFICATE OF THE AKING NOKMA FOR MICROWATERSHED DEVELOPMENT PROJECT TO BE TAKEN UP UNDER IWMP PROJECT BY TURA SOIL & WATER CONSERVATION (T) DIVISION

The Aking Nokma of Klongscher village under Krongar Micro-watershed project, WGH-IWMP-XII has No Objection to the developmental activities to be undertaken in my Aking land by Soil & Water Conservation Department.

The villagers of Klongscher Aking Land are ready to accept the Development Scheme after clear understanding of the objectives and the activities proposed under the project to be implemented in our Watershed area.

There will be No Objection in future from the villagers of the watershed area as they have understood the objectives of the proposed scheme of the Soil & Water Conservation Department.

Name & Signature of Aking Nokma

Countersigned by

Divisional Officer,
Tura Soil & Water Cons(T) Division
West Garo Hills, Meghalaya
NO OBJECTION CERTIFICATE OF THE AKING NOKMA FOR Rongari Ading
MICRO WATERSHED DEVELOPMENT PROJECT TO BE TAKEN UP UNDER IWMP
PROJECT BY TURA SOIL & WATER CONSERVATION (T) DIVISION

The Aking Nokma of Rongari Ading village under Rongari Micro-watershed project, WGH-IWMP has no objection to the development activities to be undertaken in my Aking land by Soil & Water Conservation Department.

The villagers of Rongari Ading Ak sing Land are ready to accept the Development Scheme after clear understanding of the objectives and the activities proposed under the project to be implemented in our Watershed area.

There will be no objection in future from the villagers of the watershed area as they have understood the objectives of the proposed scheme of the Soil & Water Conservation Department.

Witness

1. Intu Sangma
2. Lalip Urumi
3. Rodeh Sangma
4. Ramali Sangma
5. Songer Sangma

Name & Signature of Aking Nokma.

President
Rongari A ding A king Land
West Garo Hills.

Countersigned by

Divisional Officer,
Tura Soil & Water Conservation(T)Division,
West Garo Hills, Meghalaya.
NO OBJECTION CERTIFICATE OF THE AKING NOKMA FOR RONGPENG MICROWATERSHED DEVELOPMENT PROJECT TO BE TAKEN UP UNDER IWMP PROJECT BY TURA SOIL & WATER CONSERVATION (T) DIVISION

The Aking Nokma of Sampalgre village under Rongpeng Micro-watershed project, WGH-IWMP-XII has No Objection to the developmental activities to be undertaken in my Aking land by Soil & Water Conservation Department.

The villagers of Sampalgre Aking Land are ready to accept the Development Scheme after clear understanding of the objectives and the activities proposed under the project to be implemented in our Watershed area.

There will be No Objection in future from the villagers of the watershed area as they have understood the objectives of the proposed scheme of the Soil & Water Conservation Department.

Name & Signature of Aking Nokma

Countersigned by

Divisional Officer,
Tura Soil & Water Cons(T) Division
West Garo Hills, Meghalaya
NO OBJECTION CERTIFICATE OF THE AKING NOKMA FOR MICROWATERSHED DEVELOPMENT PROJECT TO BE TAKEN UP UNDER IWMP PROJECT BY TURA SOIL & WATER CONSERVATION (T) DIVISION

The Aking Nokma of Kalwangi village under Kerating Micro-watershed project, WGH-IWMP-XII has No Objection to the developmental activities to be undertaken in my Aking land by Soil & Water Conservation Department.

The villagers of Kalwangi ·Aking Land are ready to accept the Development Scheme after clear understanding of the objectives and the activities proposed under the project to be implemented in our Watershed area.

There will be No Objection in future from the villagers of the watershed area as they have understood the objectives of the proposed scheme of the Soil & Water Conservation Department.

Name & Signature of Aking Nokma

[Signature]

Pa J Ch Marak
Nokma II-14 (41)
Gahwanga 'B' A King
West Garo Hills

Countersigned by

[Signature]

Divisional Officer,
Tura Soil & Water Cons(T) Division
West Garo Hills, Meghalaya
No-Objection Certificate

Anga, Shui Singen Ch Marak, Sanjengpara Ak'ingni Nokma aro Songni manderang bakesa melie ia meetingko Sail Conservation Department jean Songni Nokmi Namninga dakshakna amengachik leko namni ke rallhakha. Ia Sail Conservation Departmenti schemeke thenga jinna kumange rallhakha aro Namangii kan kaamii thenga mamungpa Champengani dangawa.

Sahyang

SL. No, 1 Ronggan Songma - Falip
2. Jonggan Songma - OSB
3. Romdin Songma - Balma.
4. Wenggan Marak - Otk

Iake Lee Thigpa
L.T.I of
Shui Singen Marak,

Shri, Singen Marak
kma
Sanjengpara Ak'ing II-18 (14)
P. O. Porakasua
Dist: West Garo Hills,
Meghalaya.
AGREEMENT FOR CONVERGENCE OF SCHEME

The Village Employment Councils (VEC) and the Communities of Rongbretgre Village, Haingnap Block West Garo Hills Meghalaya have no objection to the convergence of NREGS with Integrated Watershed Management Programme (IWMP) at Rongbretgre Village under Kegar Micro Watershed, WGH-IWMP-XII being implemented by Tura Soil And Water Conservation (T) Division.

We also agreed to allocate and commit funds for wages as well as material component under NREGS in our Annual Work Plan for various Soil and Water Conservation which shall be taken up during the project period (2011-2016). The wage and material component under NREGS shall be utilised for the following works.

1. Areca Nut Plantation.
2. Rubber Plantation.
3. Earthen Embankment.

Teman Sheri
President
Rongbretgre V.E.C.
West Garo Hills, Meghalaya
AGREEMENT FOR CONVERGENCE OF SCHEME

The Village Employment Councils (VEC) and the Communities of Madragry villagers, Dalu Block West Garo Hills Meghalaya have no objection to the convergence of NREGS with Integrated Watershed Management Programme (IWMP) at Madragry village under Laura Rgy Micro Watershed, WGH-IWMP-XII being implemented by Tura Soil And Water Conservation (T) Division.

We also agreed to allocate and commit funds for wages as well as material component under NREGS in our Annual Work Plan for various Soil and Water Conservation which shall be taken up during the project period (2011-2016). The wage and material component under NREGS shall be utilised for the following works.

1. Dug Out Pond.
2. Wet Terrace.
3. Arecanut Plantation.
4. Rubber Plantation.
5. Earthen Embankment.
6. Earthen Irrigation Channel.

President
Madragry V.E.C. (MGNREGS)
Dalu Dev. Block
West Garo Hills.

Secretary
Madragry V.E.C. (MGNREGS)
Dalu Dev. Block
West Garo Hills.
AGREEMENT FOR CONVERGENCE OF SCHEME

The Village Employment Councils (VEC) and the Communities of Rongari Ading, Hamdiga Block West Garo Hills Meghalaya have no objection to the convergence of NREGS with Integrated Watershed Management Programme (IWMP) at Rongari Ading village under Ronguri Micro Watershed, WGH-IWMP-XII being implemented by Tura Soil And Water Conservation (T) Division.

We also agreed to allocated and commit funds for wages as well as material component under NREGS in our Annual Work Plan for various Soil and Water Conservation which shall be taken up during the project period (2011-2016). The wage and material component under NREGS shall be utilised for the following works.

1. Earthen Embankment.
2. Areca nut Plantation.
3. Rubber Plantation.

[Signatures]
AGREEMENT FOR CONVERGENCE OF SCHEME

The Village Employment Councils (VEC) and the Communities of Sampalgur Block West Garo Hills Meghalaya have no Objection to the convergence of NREGS with Integrated Watershed Management Programme (IWMP) at Sampalgur village under Bongling Micro Watershed, WGH-IWMP-XII being implemented by Tura Soil And Water Conservation (T) Division.

We also agreed to allocated and commit funds for wages as well as material component under NREGS in our Annual Work Plan for various Soil and Water Conservation which shall be taken up during the project period (2011-2016). The wage and material component under NREGS shall be utilised for the following works.

1. Dug Out Pond.
2. Wet Terrace.
3. Arecanut Plantation.
4. Rubber Plantation.
5. Earthen Embankment.
6. Earthen Irrigation Channel.

[Signatures]

Pradhan
President
Sampalgur Block Employment Council, West Garo Hills

Secretary
Sampalgur Block Employment Council, West Garo Hills
AGREEMENT FOR CONVERGENCE OF SCHEME

The Village Employment Councils (VEC) and the Communities of Galwengre Village Block West Garo Hills Meghalaya have no objection to the convergence of NREGS with Integrated Watershed Management Programme (IWMP) at Galwengre village under Rongdong Micro Watershed, WGH-IWMP-XII being implemented by Tura Soil And Water Conservation (T) Division.

We also agreed to allocate and commit funds for wages as well as material component under NREGS in our Annual Work Plan for various Soil and Water Conservation which shall be taken up during the project period (2011-2016). The wage and material component under NREGS shall be utilised for the following works.

1. Dug Out Pond.
2. Wet Terrace.
3. Areca Nut Plantation.
4. Rubber Plantation.
5. Earthen Embankment.
6. Earthen Irrigation Channel.

[Signatures]

[Handwritten text]

[Stamps]

[Handwritten text]
AGREEMENT FOR CONVERGENCE OF SCHEME

The Village Employment Councils (VEC) and the Communities of Aginge, Dalu Block West Garo Hills Meghalaya have no objection to the convergence of NREGS with Integrated Watershed Management Programme (IWMP) at Aginge village under Upper Aginge Micro Watershed, WGH-IWMP-XII being implemented by Tura Soil And Water Conservation (T) Division.

We also agreed to allocate and commit funds for wages as well as material component under NREGS in our Annual Work Plan for various Soil and Water Conservation which shall be taken up during the project period (2011-2016). The wage and material component under NREGS shall be utilised for the following works.

1. Dug Out Pond.
2. Wet Terrace.
3. Areca nut Plantation.
4. Rubber Plantation.
5. Earthen Embankment.
6. Earthen Irrigation Channel.

Secretary
Balading V E C
MGNREGS/Dalu Dev. Block
West Garo Hills

President
Balading V E C
MGNREGS/Dalu Dev. Block
West Garo Hills

[Signatures]
AGREEMENT FOR CONVERGENCE OF SCHEME

The Village Employment Councils (VEC) and the Communities of Sanjengpara Villagers, Dalu Block West Garo Hills Meghalaya have no objection to the convergence of NREGS with Integrated Watershed Management Programme (IWMP) at Sanjengpara village under Upper Ajum Micro Watershed, WGH-IWMP-XII being implemented by Tura Soil And Water Conservation (T) Division.

We also agreed to allocate and commit funds for wages as well as material component under NREGS in our Annual Work Plan for various Soil and Water Conservation which shall be taken up during the project period (2011-2016). The wage and material component under NREGS shall be utilised for the following works.

1. Dug Out Pond.
2. Wet Terrace.
3. Arecanut Plantation.
4. Rubber Plantation.
5. Earthen Embankment.
6. Earthen Irrigation Channel.

Kilam Ch. March
President
Sanjengpara VEC (MGNREGS)
Dalu Development Block

Rusdun D. Sangmo
Sanjengpara VEC (MGNREGS)
Dalu Development Block
AGREEMENT FOR CONVERGENCE OF SCHEME

The Village Employment Council (VEC) and the Communities of Rongchong Village, Zikak Block, West Garo Hills, Maghaaya have no objection to the Convergence of NREGS with Integrated Watershed Management Project (IWMP) at Rongchong Village under Chipia Micro-Watershed, WGH-IWMP-____ being implemented by Tura Soil & Water Conservation (T) Division.

We also agreed to allocate and commit Funds for wage as well as material component under NREGS in our Annual Work Plan for various Soil & Water Conservation Works which shall be taken up during the Project Period (2011-12 to 2014-15). The wage and material component under NREGS shall be utilized for following works.

1. Dug-out Pond.
2. Bench Terrace.
3. Earthen Irrigation Channel.
4. Rubber Plantation.

Chairman
Village Employment Council

Block, WGH

Secretary
Village Employment Council

Block, WGH
AGREEMENT FOR CONVERGENCE OF SCHEME

The Village Employment Council (VEC) and the Communities of

__Chepa___ Village, Zilzak Block, West Garo Hills, Meghalaya have no

objection to the Convergence of NREGS with Integrated Watershed Management Project

(IWMP) at __Chepa___ village under ___Ghoral___ Micro-Watershed, WGH

IWMP___ being implemented by Tura Soil & Water Conservation (T) Division.

We also agreed to allocate and commit Funds for wage as well as material

component under NREGS in our Annual Work Plan for various Soil & Water Conservation

Works which shall be taken up during the Project Period (2011-12 to 2014-15). The wage

and material component under NREGS shall be utilized for following works.

1. Dug-out Pond.
2. Bench Terrace.
3. Earthen Irrigation Channel.
4. Rubber Plantation.

Chairman,
Village Employment Council

[Signature]

Block, WGH

Secretary
Village Employment Council

[Signature]

Zilzak Block, WGH
AGREEMENT FOR CONVERGENCE OF SCHEME

The Village Employment Council (VEC) and the Communities of Taliyagu Village, Zikwa Block, West Garo Hills, Meghalaya have no objection to the Convergence of NREGS with Integrated Watershed Management Project (IWMP) at Taliyagu Village under Gidol Micro-Watershed, WGH-IWMP being implemented by Tura Soil & Water Conservation (T) Division.

We also agreed to allocate and commit Funds for wage as well as material component under NRECS in our Annual Work Plan for various Soil & Water Conservation Works which shall be taken up during the Project Period (2011-12 to 2014-15). The wage and material component under NRECs shall be utilized for following works:

1. Dug-out Pond.
2. Bench Terrace.
3. Earthen Irrigation Channel.
4. Rubber Plantation.

Chairman,
Village Employment Council
Zikwa Block, WGH

Secretary
Village Employment Council
Zikwa Block, WGH
AGREEMENT FOR CONVERGENCE OF SCHEME

The Village Employment Council (VEC) and the Communities of Chipra village, Zikzak Block, West Garo Hills, Meghalaya have no objection to the Convergence of NREGS with Integrated Watershed Management Project (IWMP) at Chipra village under Chipra Micro-Watershed, WGH-IWMP-_____ being implemented by Tura Soil & Water Conservation (T) Division.

We also agreed to allocate and commit Funds for wage as well as material component under NREGS in our Annual Work Plan for various Soil & Water Conservation Works which shall be taken up during the Project Period (2011-12 to 2014-15). The wage and material component under NREGS shall be utilized for following works.

1. Dug-out Pond.
2. Bench Terrace.
3. Earthen Irrigation Channel.
4. Rubber Plantation.

Chairman,
Village Employment Council

Secretary
Village Employment Council

[Signatures]

[Block, WGH]

[Block, WGH]
Participatory Rural Appraisal (PRA-Exercise)  Socio-Economic Survey

Solar Lamp Installation under EPA