DETAILED PROJECT REPORT
OF
WEINIER WATERSHED
UNDER
INTEGRATED WATERSHED MANAGEMENT PROGRAMME (IWMP)
PROJECT – V (2010 – 2011)
WEST KHASI HILLS DISTRICT, MEGHALAYA

PROJECT IMPLEMENTATION AGENCY (IWMP)
WEST KHASI HILLS DISTRICT
SOIL & WATER CONSERVATION DIVISION: NONGSTOIN
**SUMMARY**

<table>
<thead>
<tr>
<th>Details</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of the State</td>
<td>Meghalaya</td>
</tr>
<tr>
<td>Name of the District</td>
<td>West Khasi Hills District</td>
</tr>
<tr>
<td>Name of the C&amp;R Block</td>
<td>Nongstoin</td>
</tr>
<tr>
<td>Name of the Villages</td>
<td>(i) Mawduh (ii) Mawthar (iii) Sangriang (iv) Mawthawphet</td>
</tr>
<tr>
<td>Name of the Project</td>
<td>West Khasi Hills – IWMP –V</td>
</tr>
<tr>
<td>Total Geographical Area</td>
<td>2041 Ha</td>
</tr>
<tr>
<td>Total Treatment Area</td>
<td>1800 Ha</td>
</tr>
<tr>
<td>Total Project Cost</td>
<td>270 lakhs</td>
</tr>
<tr>
<td>Project Duration</td>
<td>5 Years</td>
</tr>
<tr>
<td>Project Implementing Agency</td>
<td>Soil &amp; Water Conservation Division, Nongstoin.</td>
</tr>
</tbody>
</table>
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CHAPTER I

INTRODUCTION AND BACKGROUND
CHAPTER I
INTRODUCTION AND BACKGROUND

1.1 Project Background:
The Weinier (IWMP-V) project is located in Nongstoin C&RD Block, West Khasi Hills District of Meghalaya. Consisting of a single micro-watershed, the project area is drained by the Kynshi River and its tributaries flowing in a South to West direction. The total area is 2041 Ha. With 1800 Ha to be treated under the Integrated Watershed Management Programme (IWMP).

The Project area is located at a distance of about 16 kms from Nongstoin the District headquarter and also the Divisional Head Quarter West Khasi Hills District. A total of four villages are covered under the project. These are –
1. Mawduh
2. Mawthar
3. Sangriang
4. Mawthawphet

1.2 Micro-watershed Information:
The project Area fall under only one micro-watershed. The micro-watershed code is 3C1B2b5g as codified by the North East Space Application Centre (NESAC). The total area of the micro-watershed is 2041 Ha. With 1800 hectares to be treated under the Integrated Watershed Management Programme (IWMP).
1.3 Need and Scope for Watershed Development:

The micro-watersheds 3C1B2b5g, falls under the High – Very High Priority category as per the prioritization of watersheds by the North East Space Application Centre (NESAC). The geomorphology of the area consists of steep slopes dissected by a number of small tributaries running across the Watershed with only small isolated pockets of vegetation leaving the area highly exposed to soil erosion. The farmers also practice Jhum (Bun) cultivation and Charcoal Burning which are the major contributing factor for land degradation. Though the area receives sufficient rainfall during the monsoon, there is water shortage during the dry months.

1.4 Aim of the Project:

- To conserve and manage natural resources such as soil, water & vegetation for enhancing & sustaining land & water productivity on a sustainable basis thereby promoting food, social, economic & livelihood security.

Objectives:

1). To dissipate soil & water erosion & surface runoff
2). To harvest/ recycle surface runoff & rain water.
3). To enhance soil moisture regime/ water holding capacity.
4). To improve soil health & tilth.
5). To improve crop production & biomass productivity.
6). Ecological restoration of degraded/unproductive lands.
7). To promotes generation of gainful employment opportunities.
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 a distance of 16 kms away from Nongstoin, the Headquater of West Khasi Hills District and also fall under the Nongstoin C &RD Block. The project Area is situated very closely to the famous Nongkhnum River Island. The geographical location is between 91° 14’ to 91° 17’ E Longitude and 25° 20’ to 25° 29’ 45” N Latitude. There are 4 villages within the Watershed which are as follows –

1. Mawduh
2. Mawthar
3. Sangriang
4. Mawthawphet

At present, only Mawduh and Mawthar village is connected with pucca road whereas the other two villages are connected with kucha road

2.2 Physiography:

The physiography of the micro-watershed is undulating. The altitude ranges from 1474 m to 1520 m in the upper region of the watershed while in the middle region ranges from 1336 m to 1428 m whereas in the lower region of the watershed it ranges from 1290 m to 1520 m respectively.

Table 2.1: Physiographic details

<table>
<thead>
<tr>
<th>Elevation (metres)</th>
<th>Slope Range (%)</th>
<th>Order of watershed Sub/Micro-watershed</th>
<th>Major streams</th>
<th>Topography</th>
</tr>
</thead>
<tbody>
<tr>
<td>1060m to 1520m</td>
<td>0% to 80%</td>
<td>Micro Watershed</td>
<td>Kynshi River</td>
<td>Sloping</td>
</tr>
</tbody>
</table>

Drainage: The major stream draining the micro-watershed is the Kynshi River which is a 5th order stream flowing in a South-West direction. The slopes of the micro-watershed are dissected by numerous small tributaries flowing to the Kynshi River. The drainage density calculated is 3.503 Km/Km² & the average bifurcation ratio worked out is 3.87. The total length of all the streams/rivers is 71.50 Km (Ist Order to Vth Order). There are 86 First Order streams, 17 Second Order streams, 4 Third Order streams, 1 Fourth Order streams and 1 Fifth Order stream.

Drainage Density = \( \frac{\text{Total length of streams/rivers in the Watershed (Km)}}{\text{Area of Watershed (Km²)}} \)

Bifurcation Ratio = \( \frac{\text{Previous streams order (Nos. of Segments)}}{\text{Next Order (Nos. of Segments)}} \)
2.2.1 **Soil:** The Soil as per the Soil Map prepared by GIS Lab, State Level Nodal Agency Soil & Water Conservation Department Meghalaya and Soil Testing done by Soil & Water Conservation Survey Division, Shillong, Meghalaya, indicates Loamy Soil in the A1 Horizon, Clay-loam in the A2 Horizon and Clay soil in the B3 Horizon with a deep depth and medium texture with moderate erosion. The pH of the soil is 4.72 which is highly Acidic, Nitrogen content is 1388.3Kg/Ha, Phosphorus content is 3.17Kg/Ha and Potassium content is 183.5 Kg/Ha.

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

<table>
<thead>
<tr>
<th>Sl. No.</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>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Names of State</td>
<td>Names of District</td>
<td>Names of Projects</td>
<td>Cause</td>
<td>Types of erosion</td>
<td>Area affected (ha)</td>
<td>Run-off (mm/ year)</td>
<td>Average soil loss (Tonnes/ ha/ year)</td>
</tr>
<tr>
<td>1</td>
<td>Meghalaya</td>
<td>West Khasi Hills</td>
<td>West Khasi Hills – IWMP V</td>
<td>Water erosion:</td>
<td>a Sheet</td>
<td>2041</td>
<td>2700-3200</td>
<td>10.50-32.50</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>b Rill</td>
<td>2041</td>
<td>2700-3200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>c Gully</td>
<td>2041</td>
<td>2700-3200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Sub total</td>
<td>2041</td>
<td>2700-3200</td>
<td>10.50-32.50</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Wind erosion</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td></td>
</tr>
</tbody>
</table>

2.3 **Climate:** The Climate as per the Agro-Climatic Map prepared by GIS Lab, State Level Nodal Agency Soil & Water Conservation Department Meghalaya, indicates cold moisture. The Average Annual Rainfall is 2960mm.
### 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>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>Cold Moisture</td>
<td>1800 Ha</td>
<td>West Khasi Hills</td>
<td>West Khasi Hills IWMP V</td>
<td>Loamy Soil in the A1 Horizon, Clayloam in the A2 Horizon and Clay soil in the B3 Horizon with a deep depth and medium texture with moderate erosion. The pH of the soil is 4.72 which is highly Acidic, Nitrogen content is 1388.3Kg/Ha, Phosphorus content is 3.17Kg/Ha and Potassium content is 183.5 Kg/Ha.</td>
<td>2041 Ha</td>
<td>2960 mm</td>
</tr>
</tbody>
</table>

| 2.4 Agriculture: | Agriculture is the Mainstay of the people of the area, the principal crops are Paddy, Potato, Maize, Ginger and other vegetables. Important Horticulture crops include Peach, Pear, Oranges, Lemon, SohPhie Bah (*Myrica nagii*), Sophie Nam (*M.farquhariana, M.esculenta*), Blackberry, Passion Fruit, etc. |
Table 2.4: Crop yield and production

<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>189</td>
<td>10.65</td>
<td>2019</td>
</tr>
<tr>
<td>Potato</td>
<td>104</td>
<td>53.00</td>
<td>2600</td>
</tr>
<tr>
<td>Maize</td>
<td>177</td>
<td>10.00</td>
<td>884</td>
</tr>
<tr>
<td>Ginger</td>
<td>20</td>
<td>80.00</td>
<td>1600</td>
</tr>
</tbody>
</table>

2.5 **Natural Vegetation:** The tree species common to the watershed area includes – *Quercus* spp(Diengsning), *Schima khasiana* (Dieng Ngan), *Castanopsis* spp(Dieng Lieng), Bamboo spp., Pine. However, due to jhum cultivation and Charcoal burning the forest cover of the area has reduced considerably.

2.6 **Socio-Economic Profile:** Economically, the people of the project Area are poor mainly due to low Agricultural productivity, lack of modern methods of cultivation, farmers largely practice mono-agriculture(single cropping) and also because of low productivity potential of the land. The Average Annual Income of the Project Area is Rs. 44296/–

**Demographic Status:** The total households in the watershed project is 208 with a total population of 1279, of which 585 are male and 694 are female. The detail of the household in each of the villages in the watershed project is as follows:

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Villages</th>
<th>Nos. of Households</th>
<th>Male</th>
<th>Female</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Mawduh</td>
<td>42 Nos.</td>
<td>121</td>
<td>141</td>
<td>262</td>
</tr>
<tr>
<td>2</td>
<td>Mawthar</td>
<td>31 Nos.</td>
<td>93</td>
<td>98</td>
<td>191</td>
</tr>
<tr>
<td>3</td>
<td>Sangriang</td>
<td>111 Nos.</td>
<td>306</td>
<td>384</td>
<td>690</td>
</tr>
<tr>
<td>4</td>
<td>Mawthawphet</td>
<td>24 Nos.</td>
<td>65</td>
<td>71</td>
<td>136</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td>208 Nos.</td>
<td>585</td>
<td>694</td>
<td>1279</td>
</tr>
</tbody>
</table>
**Infrastructure facilities:**

2.1.1  **Roads:** All the villages within the Project Area are not connected by good road. Mawduh and Mawthar village are connected with pucca road whereas Sangriang and Mawthawphet are connected with kutcha road.

2.1.2  **School:** there are only 5 L.P Schools and 1 U.P School within the Project Area run either by the Mission or by the Government.

2.1.3  **Electricity:** Electricity have been provided to the three Villages except for Mawthawphet Village.

2.1.4  **Health:** One Community Health Centre at Sangriang in under construction and the local population have to either depends on facilities available at Nongstoin or Shillong.

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

2.1.6  **Market:** There is a weekly market held once in a week at Nongstoin. The District Headquarter.
### Table 2.5: Infrastructure Status.

<table>
<thead>
<tr>
<th>Name of District</th>
<th>Name of Project</th>
<th>Parameters:</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>West Khasi Hills</td>
<td>West Khasi Hills – IWMP V</td>
<td>(i) 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></td>
<td></td>
<td>(ii) No. of village provided with electricity</td>
<td>3 nos. electrified and 1 without electricity</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(iii) No. of households without access to drinking water</td>
<td>79 nos.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(iv) No. of educational institutions: Primary (P)/ Secondary (S)/ Higher Secondary (HS)/ Vocational institution (VI)</td>
<td>(P) 5 Nos. (S) (HS) (VI) 1No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(v) No. of village with access to Primary Health Centre</td>
<td>Nil</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(vi) No. of village with access Veterinary Dispensary</td>
<td>Nil</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(vii) No. of village with access Post Office</td>
<td>Nil</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(viii) No. of village with access Banks</td>
<td>Nil</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(ix) No. of village with access Markets/ mandis</td>
<td>Nil</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(x) No. of village with access Agro-Industries</td>
<td>Nil</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(xi) Total quantity of surplus milk</td>
<td>Nil</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(xii) No. of milk collection centres (e.g. Union (U)/ Society (S)/ Private agency (PA)/ Others (O))</td>
<td>(U) Nil (S) Nil (PA) Nil (O) Nil</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(xiii) No. of villages with access to Aganwadi Centres</td>
<td>3 No.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(xiv) Any other facilities with no. of villages (please specify)</td>
<td>Nil</td>
</tr>
</tbody>
</table>
2.7 Livestock: there are only 3 kinds of livestock farming being farmed in the area viz. Piggery, Poultry, and Cattle (Cow) rearing.

Table 2.6: Existing livestock population

<table>
<thead>
<tr>
<th>Type of Animal</th>
<th>Population</th>
</tr>
</thead>
<tbody>
<tr>
<td>Piggery</td>
<td>155</td>
</tr>
<tr>
<td>Poultry</td>
<td>1100</td>
</tr>
<tr>
<td>Cattle(Cow)</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>1355</td>
</tr>
</tbody>
</table>

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

Table 2.7: Land Holding:

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Name of District</td>
<td>Name of the Project</td>
<td>Types of Farmer</td>
<td>No. of households</td>
<td>No. of BPL households</td>
</tr>
<tr>
<td></td>
<td>West Khasi Hills</td>
<td>West Khasi Hills – IWMP V</td>
<td>(i) Large</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(ii) Small</td>
<td>59</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(iii) Marginal</td>
<td>136</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(iv) Landless</td>
<td>13</td>
<td>13</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Sub - Total</td>
<td>208</td>
<td>43</td>
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</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>
<th>Area owned/ In possession of</th>
<th>Area available for treatment (ha)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Pvt. Person</td>
<td>Govt. (specify deptt.)</td>
<td>PRI</td>
</tr>
<tr>
<td>West Khasi Hills</td>
<td>West Khasi Hills – IWMP V</td>
<td>(i) Wasteland/ degraded land</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(ii) Pastures</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(iii) Private Agriculture land</td>
<td>490 Ha</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(iv) Village woodlot</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(v) Forest (Degraded)</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(vi) Village Ponds/ Tanks</td>
<td>-</td>
<td>5 nos.</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(vii) Community Buildings</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(viii) Weekly Markets</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(ix) Permanent Markets</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(x) Temples/ Places of worship</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(xi) Others (Pl. specify)</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total</td>
<td>490 Ha</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

2.9 Land use and land cover: As per the land use land cover map generated by GIS Lab State Level Nodal Agency Soil & Water Conservation Department Meghalaya the Watershed area has been broadly classified into the following land uses.

a) Built-up Area = 64.00 Ha
b) Water bodies-River/Stream-Perennial = 19.00 Ha
c) Agricultural land-crop land-kharif crop = 201.00 Ha
d) Tree clad Area-close = 157.00 Ha
e) Tree clad Area-open = 1572.00 Ha
f) Wastelands-barren Rocky/Stony waste = 28.00 Ha

Total = 2041.00 Ha
2.10 **Problems of the Area:** Baseline Survey and PRA Exercise carried out indicates the major problems of the Watershed Area as per the villages surveyed are as listed below:

1. Considerable area of forest land being diverted for Jhum (Bun) cultivation.
2. Less Geographical Area under Forest Cover due to recurring fire hazards / overgrazing and charcoal burning / making has seriously disturbed the ecological balance of the area.
3. Lack of modern technological inputs for farming / agricultural leading to low crop yield.
4. Water Scarcity (Inadequate Water Supply Facility)
5. Lack of Awareness & Knowledge on improved agricultural practices and Modern Technology.
7. Unutilized Wastelands.
8. Very poor sanitation.
9. Inadequate primary infrastructure.
10. Inadequate Health Care.

These problems have been identified through Participatory Rural Appraisal (PRA) Exercises conducted in all the villages within the Watershed with active participation of the watershed community & primary staked holders. Measurable attempts & approaches have been formulated in the watershed treatment plan of the Detailed Project Report so as to mitigate & overcome them.
CHAPTER III
PROJECT PLANNING & INSTITUTION BUILDING
CHAPTER III

PROJECT PLANNING & INSTITUTION BUILDING

3.1 Scientific Planning

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

ii) **Participatory Rural Appraisal:** To further obtain information on the project area, the people, resources, various PRA techniques like resource mapping, social mapping, seasonal calendars, matrix ranking, 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 North Eastern Space Application Centre (NESAC) using the LISS III images (2006). The activities were located on the field by using GPS and accordingly transferred to the maps on GIS platform.

| Table 3.1: Details of Scientific Planning and Inputs in IWMP projects: |
|---|---|---|
| 1 | 2 | No. of projects in which scientific criteria were used |
| **Sl.No.** | **Scientific criteria/ inputs used** | **A. Planning** |
| Cluster approach | 3 | 
| Whether technical back-stopping for the project has been arranged? If yes, mention the name of the Institute. | Yes, NESAC, Nongsder |
| Baseline survey | Yes |
| Hydro-geological survey | No |
| Contour mapping | No |
| Participatory Net Planning (PNP) | No |
| Remote sensing data-especially soil/ crop/ run-off cover | Yes |
| Ridge to Valley treatment | Yes |
| Online IT connectivity between |  |
| (1) Project and DRDA cell/ZP | Yes |
| (2) DRDA and SLNA | Yes |
| (3) SLNA and DoLR | Yes |
| Availability of GIS layers |  |
| 1. Cadastral map | NA |
| 2. Village boundaries | No |
| 3. Drainage | Yes |
| 4. Soil (Soil nutrient status) | Yes |
| 5. Land use | Yes |
| 6. Ground water status | No |
| 7. Watershed boundaries | Yes |
| 8. Activity | Yes |
| Crop simulation models* | No |
| Integrated coupled analyzer/ near infrared visible spectroscopy/ medium spectroscopy for high speed soil nutrient analysis | No |
| Normalized difference vegetation index (NDVI)# | Yes |
| Weather Stations | Yes, Nongstoin |

**B. Inputs**

| 1. Bio-pesticides | No |
| 2. Organic manures | Yes |
| 3. Vermi-compost | Yes |
| 4. Bio-fertilizer | Yes |
| 5. Water saving devices | Yes |
| 6. Mechanized tools/ implements | No |
| 7. Bio-fencing | Yes |
| 8. Nutrient budgeting | Yes |
| 9. Automatic water level recorders & sediment samplers | Yes |
| Any other (please specify) | - |
3.2 Project Implementing Agency:
The PIA is the Soil & Water Conservation Division, Nongstoin, West Khasi Hills District of Meghalaya. The Project Manager will be the Divisional Soil and Water Conservation Officer and will be assisted by an Asst. Soil & Water Conservation Officer along with WDT members in which expertise is drawn from the relevant fields for achieving smooth and successful implementation of the project.

<table>
<thead>
<tr>
<th>Names of Districts</th>
<th>Names of projects</th>
<th>Details of PIA</th>
</tr>
</thead>
<tbody>
<tr>
<td>West Khasi Hills</td>
<td>West Khasi Hills – IWMP V</td>
<td>(i) Type of organization# Government</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(ii) Name of organization Soil &amp; Water Conservation Division, Nongstoin</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(iii) Designation &amp; Address Divisional Soil &amp; Water Conservation Officer, Nongstoin, West Khasi Hills</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(iv) Telephone 0364 – 280236</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(v) Fax Do</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(vi) E-mail <a href="mailto:soilnwatercon.ngn@gmail.com">soilnwatercon.ngn@gmail.com</a></td>
</tr>
</tbody>
</table>

3.3 Institution Building

i) Watershed Committee (WC)
The Watershed Committee of the Weinier, IWMP V was constituted with the active involvement of the villagers with strong support of the Traditional Institutions (Village Durbar/Council). The Weinier Watershed Committee has been registered under the Society Registration Act 1983.
### Table 3.2: Details of Watershed Committees (WC):

<table>
<thead>
<tr>
<th>Sl No</th>
<th>States</th>
<th>District</th>
<th>Projects</th>
<th>Designation</th>
<th>Name</th>
<th>M/F</th>
<th>SC</th>
<th>ST</th>
<th>SF</th>
<th>MF</th>
<th>LF</th>
<th>Landless</th>
<th>UG</th>
<th>SHG</th>
<th>GP</th>
<th>Any other</th>
<th>Educational qualification</th>
<th>Function(s) assigned</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Meghalaya</td>
<td>West Khasi Hills</td>
<td>WKH-IWMP V</td>
<td>Weinier Water Shed Committee</td>
<td>President</td>
<td>Shri. Biles Iawren</td>
<td>M</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
<td>B.A Passed</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td>Secretary</td>
<td>Shri K.Synrem</td>
<td>M</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Government Employee</td>
<td>M.Sc A to J</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td>Member</td>
<td>Smt. Chrispina Kharbani</td>
<td>F</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Class XII</td>
<td>A,B,E</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td>Member</td>
<td>Shri Joseph Iawren</td>
<td>M</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Class IX</td>
<td>-do-</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td>Member</td>
<td>Smt. Ridalin Iawren</td>
<td>F</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Class VII</td>
<td>-do-</td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td>Member</td>
<td>Shri. Promestar</td>
<td>M</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Class IX</td>
<td>-do-</td>
</tr>
<tr>
<td>7</td>
<td></td>
<td></td>
<td></td>
<td>Member</td>
<td>Smt. Mildawris Iawren</td>
<td>F</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Class X</td>
<td>-do-</td>
</tr>
<tr>
<td>8</td>
<td></td>
<td></td>
<td></td>
<td>Member</td>
<td>Shri Julius Rynshieng</td>
<td>M</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Class V</td>
<td>-do-</td>
</tr>
<tr>
<td>9</td>
<td></td>
<td></td>
<td></td>
<td>Member</td>
<td>Shri. Now Kharbani</td>
<td>M</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Class VI</td>
<td>-do-</td>
</tr>
<tr>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td>Member</td>
<td>Shri. S.K Marshro</td>
<td>M</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Class IX</td>
<td>-do-</td>
</tr>
</tbody>
</table>

*From column no.2, the total number of states, from column no.3, the total number of District: from column no.4, the total number of project: from column no.5, the total number of Watershed committees: from column no.6, the total number of registered watersheds committees: from column no. 7, the total number of members, and WCs without a present and/or without a secretary, may be mentioned for the state as whole. From column no.8, the total no. of male and female members may be mentioned separately. The totals of column 9 to 18, for the entire country, may be mentioned at the end of the table.
In column 20 only the letter assigned, as below, needs to be typed, except for ‘J’, where the type may be specifically mentioned.

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>Names of the Districts</th>
<th>Names of projects</th>
<th>Total no. of registered SHGs</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>With only Men</td>
<td>With only Women</td>
<td>With both</td>
<td>Total Categories</td>
</tr>
<tr>
<td>West Khasi Hills</td>
<td>WKH. IWMP V</td>
<td>(i) Landless</td>
<td></td>
<td></td>
<td>(ii) SF</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(iv) LF</td>
<td></td>
<td></td>
<td></td>
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<td></td>
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</tr>
</tbody>
</table>
iiii) 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>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Men</th>
<th>Women</th>
<th>Both</th>
<th>Total</th>
<th>Categories</th>
<th>M</th>
<th>F</th>
<th>Total</th>
<th>M</th>
<th>F</th>
<th>Total</th>
<th>M</th>
<th>F</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(i) Landless</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(ii) SF</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(iii) MF</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(iv) LF</td>
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<td></td>
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<td></td>
<td>Total</td>
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</tr>
</tbody>
</table>

Total
CHAPTER IV
PROJECT ACTIVITIES
### 4.1 Preparatory Phase:

### 4.2 Entry Point Activity:

(Financial – Rs. in lakh)

<table>
<thead>
<tr>
<th>Sl No.</th>
<th>State</th>
<th>District</th>
<th>Names of Project</th>
<th>Amount earmarked for EPA</th>
<th>Entry Point Activities planned</th>
<th>Estimated Cost</th>
<th>Expenditure incurred</th>
<th>Balance</th>
<th>Expected outcome</th>
<th>Actual outcome</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Meghalaya</td>
<td>West Khasi Hills</td>
<td>WKH – IWMP V</td>
<td>10.80</td>
<td>1. Drinking Well</td>
<td>0.35</td>
<td>1.60282</td>
<td>0.35</td>
<td>5.22278</td>
<td>Improving rural connectivity, Better civic amenities, Increase in availability of safe drinking water</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2. Head Water Dam/washing place</td>
<td>0.35</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>3. Drinking Well</td>
<td>0.35</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4. Footpath</td>
<td>0.29908</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5. Water Harvesting cum Washing Place/channel</td>
<td>5.22278</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6. Head Water Dam/washing place</td>
<td>1.96359</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7Community Assets(Chairs)</td>
<td>1.01173</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
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<td></td>
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<td></td>
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<td></td>
<td></td>
<td><strong>Total</strong></td>
<td><strong>10.80</strong></td>
</tr>
</tbody>
</table>


### i) Other activities of Preparatory Phase:

<table>
<thead>
<tr>
<th></th>
<th>District</th>
<th>Name of Projects</th>
<th>Initiation of village level institution</th>
<th>Capacity building</th>
<th>IEC activities</th>
<th>Baseline survey</th>
<th>Hydro-geological survey</th>
<th>Identifyin g technical support agencies</th>
<th>Resour ce agreements</th>
<th>Preparat ion of DPR</th>
<th>Evaluatio n of DPR</th>
<th>Any other (please specify)</th>
<th>Cost incurred (Rs. In lakh)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>West Khasi Hills</td>
<td>West Khasi Hills – IWMP V</td>
<td>1 no. W/C 4 nos. Sub Watershed Committee at each benefiting village</td>
<td>3 nos.</td>
<td>2 nos.</td>
<td>Participatory Rural Appraisals</td>
<td>N.A</td>
<td>Done</td>
<td>Done</td>
<td>Done</td>
<td>-</td>
<td>-</td>
<td>5.40</td>
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</tbody>
</table>
4.3 Watershed Works Phase:

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

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Name of States</th>
<th>Name of Districts</th>
<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>Total target</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>No</td>
<td>Area irrigated (ha)</td>
<td>Stora age capacity</td>
<td>No</td>
</tr>
<tr>
<td>1</td>
<td>Meghalaya</td>
<td>West Khasi Hills</td>
<td>IWMP V</td>
<td></td>
<td>1</td>
<td>-</td>
<td>500 m³</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(i) Tank</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(ii) Pond</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(iii) Lake</td>
<td>-</td>
<td>-</td>
<td>-</td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(iv) Check Dam</td>
<td>1</td>
<td>20.00</td>
<td>102 m³</td>
<td>-</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(v) Wells</td>
<td>-</td>
<td>-</td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(vi) Water Harvesting Structures</td>
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<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(vii) Retaining Wall/ Protection Wall</td>
<td>-</td>
<td>-</td>
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<td></td>
<td></td>
<td></td>
<td>West Khasi Hills</td>
<td></td>
<td>Total</td>
<td>104 Nos</td>
<td>983.98 Ha</td>
<td>11441 m³</td>
</tr>
</tbody>
</table>

Total: 104 Nos, 983.98 Ha, 11441 m³, 93.02708
<table>
<thead>
<tr>
<th>No</th>
<th>Area irrigated (ha)</th>
<th>Storage capacity</th>
<th>Expenditure incurred (in lakhs)</th>
<th>No</th>
<th>Area irrigated (ha)</th>
<th>Storage capacity</th>
<th>Expenditure incurred (in lakhs)</th>
<th>Area irrigated (ha)</th>
<th>Storage capacity</th>
<th>Estimated incurred</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 nos.</td>
<td>33.11 Ha</td>
<td>1808 m³</td>
<td>3.162</td>
<td>33.11 Ha</td>
<td>1808 m³</td>
<td>3.162</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-</td>
<td>-</td>
<td>-</td>
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<td>-</td>
<td>-</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17 nos</td>
<td>277.95 Ha</td>
<td>3000 m³</td>
<td>13.66574</td>
<td>297.95 Ha</td>
<td>3102 m³</td>
<td>13.66574</td>
<td>102 m³</td>
<td>20.00 Ha</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 Nos</td>
<td>30.00 Ha</td>
<td>130 m³</td>
<td>3.50</td>
<td>30.00 Ha</td>
<td>130 m³</td>
<td>3.50</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14 Nos</td>
<td>592.92 Ha</td>
<td>6403 m³</td>
<td>42.55611</td>
<td>592.92 Ha</td>
<td>6403 m³</td>
<td>42.55611</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>55 Nos</td>
<td>50.00 Ha</td>
<td>100 m³</td>
<td>30.14323</td>
<td>50.00 Ha</td>
<td>100 m³</td>
<td>30.14323</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>104 Nos</td>
<td>983.98 Ha</td>
<td>11441 m³</td>
<td>93.02708</td>
<td>983.98 Ha</td>
<td>11441 m³</td>
<td>93.02708</td>
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<td></td>
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</tbody>
</table>
4.2.2 Activities related to recharging ground water resources in the project areas:

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Names of States</th>
<th>Names of Districts</th>
<th>Names of projects</th>
<th>Type of structures</th>
<th>Pre-project</th>
<th>Proposed target</th>
<th>Achievement due to project</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>No.</td>
<td>Area irrigated (ha)</td>
<td>Augmentation/ repair of existing recharging structures</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Augmentation/ repair of existing recharging structures</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>No.</td>
</tr>
<tr>
<td>(i) Open wells</td>
<td>10 Nos</td>
<td>30 Ha</td>
<td>3.5</td>
<td>30 Ha</td>
<td>3.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(ii) Bore wells</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(Pl. specify)</td>
</tr>
<tr>
<td>(iii) Any others</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total for the project</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

Change in irrigated area (Col. 8-6) (ha)
### 4.2.3 Activities executed by User Groups in the Project Areas.

<table>
<thead>
<tr>
<th>Names of Districts</th>
<th>Names of Projects</th>
<th>Major activities of the UGs –Targets</th>
<th>No. of UGs involved</th>
<th>Estimate d Cost</th>
<th>Amount of WDF to be collected (Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>West Khasi Hills</td>
<td>West Khasi Hills – IWMP V</td>
<td>Drinking Well</td>
<td>2</td>
<td></td>
<td>0.70 0.03500</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Head Water</td>
<td>2</td>
<td></td>
<td>3.5641 0.17832</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dam/Washing Place</td>
<td>2</td>
<td></td>
<td>0.29908 0.01495</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Footpath</td>
<td>1</td>
<td></td>
<td>5.22278 0.26114</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Water Harvesting cum washing place/channel</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td>6</td>
<td>6</td>
<td>9.78827 0.48941</td>
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</table>
### 4.2.4 Activities executed by User Groups in the Project Areas:

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Type</th>
<th>No. #</th>
<th>Treated Area (ha.)</th>
<th>No. of UGs involved</th>
<th>Expenditure incurred (Rs in lakhs.)</th>
<th>No. of mandays</th>
<th>Amount of WDF collected (Rs in lakhs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Drinking Well</td>
<td>2</td>
<td>5.83</td>
<td>2</td>
<td>0.70</td>
<td>420</td>
<td>0.03500</td>
</tr>
<tr>
<td>2.</td>
<td>Head Water Dam/Washing Place</td>
<td>2</td>
<td>32.7</td>
<td>2</td>
<td>3.56641</td>
<td>2140</td>
<td>0.17832</td>
</tr>
<tr>
<td>3</td>
<td>Footpath</td>
<td>1</td>
<td>-</td>
<td>1</td>
<td>0.29908</td>
<td>179</td>
<td>0.01495</td>
</tr>
<tr>
<td>4</td>
<td>Water Harvesting cum washing place/channel</td>
<td>1</td>
<td>457.36</td>
<td>1</td>
<td>5.22278</td>
<td>3134</td>
<td>0.26114</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>6</td>
<td>495.89</td>
<td>6</td>
<td>9.78827</td>
<td>5873</td>
<td>0.48941</td>
</tr>
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</table>
### 4.2.5 Activities related to livelihoods by Self Help Groups (SHGs) in the project areas:

<table>
<thead>
<tr>
<th>No.</th>
<th>Names of the Districts</th>
<th>Names of projects</th>
<th>Major activities of the SHGs</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>West Khasi Hills</td>
<td>West Khasi Hills – IWMP V</td>
<td>1. Tailoring/Knitting 1. Tailoring/Knitting</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td>2. Grocery Shop/Small Cottage Industry</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td>3. Hollow Block Making</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td>4. Piggery/ Poultry</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td>5. Vermi Compost</td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
<td>6. Ginger/ Turmeric Cultivation</td>
</tr>
<tr>
<td>7</td>
<td></td>
<td></td>
<td>7. Rice Mill Operation</td>
</tr>
<tr>
<td>8</td>
<td></td>
<td></td>
<td>8. Pisciculture</td>
</tr>
<tr>
<td>9</td>
<td></td>
<td></td>
<td>9. Mud Block Making</td>
</tr>
<tr>
<td>10</td>
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</tbody>
</table>

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

<table>
<thead>
<tr>
<th>No.</th>
<th>No. of SHGs given training</th>
<th>Total assistance received by the SHG (Amount in Rs.)</th>
<th>Total annual Income generated (Rs.)</th>
<th>Total annual Savings (Rs.)</th>
<th>No. of SHGs Graded as</th>
<th>Total Amount of loan sanctioned by the bank(s)</th>
<th>No. of SHGs federated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Loan from revolving fund</td>
<td>Training</td>
<td>Material</td>
<td>Others (pl. specify)</td>
<td>I</td>
<td>II</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Loan from revolving fund</td>
<td>Training</td>
<td>Material</td>
<td>Others (pl. specify)</td>
<td>I</td>
<td>II</td>
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</table>
### 4.2.7 Other activities of watershed works phase:

<table>
<thead>
<tr>
<th>District</th>
<th>Names of projects</th>
<th>Ridge area treatment</th>
<th>Drainage line treatment</th>
<th>Nursery raising</th>
<th>Land development</th>
<th>Crop demonstration s</th>
<th>Other Arable Land Treatment Measures</th>
<th>Veterinary services</th>
<th>Fishery development</th>
<th>Non-conventional energy</th>
<th>Any other (please specify)</th>
<th>Total cost incurred (Rs. In lakhs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IWMP -V</td>
<td></td>
<td>12.166</td>
<td>30.14323</td>
<td>3.792</td>
<td>3.75</td>
<td>45 units</td>
<td>2.25</td>
<td>4.700 S</td>
<td>20.00</td>
<td>14.50</td>
<td>Kitchen garden20unit s</td>
<td>5.2 0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.26</td>
<td>13.66574</td>
<td>0.36</td>
<td>7.9059 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Vermicomposting 10units</td>
<td>1.2 5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3.162</td>
<td>1.896</td>
<td>1.3125</td>
<td>1.896</td>
<td>1.3125</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Carpentry/B.Smithy/basketry/Agri- Implements 46units</td>
<td>2.3 0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>42.55611</td>
<td>2.58</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Tailoring/ Knitting 35units</td>
<td>2.8 0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3.50</td>
<td>5.2</td>
<td>3.95</td>
<td>5.2</td>
<td>3.95</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Hollow block making 9units</td>
<td>0.4 5</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>Mud Block making 9units</td>
<td>2.7 0</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>Grocery shop/ Small cottage industry 12units</td>
<td>3.6 0</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>Rice mill operation 15</td>
<td>7.5 0</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>7.50</td>
</tr>
<tr>
<td>units</td>
<td>Ginger/Turmeric cultivation 12 units</td>
<td>1.8</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>-------</td>
<td>-------------------------------------</td>
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<td>------</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>13.426</td>
<td>93.02708</td>
<td>6.048</td>
<td>15.548</td>
<td>2.25</td>
<td>4.700</td>
<td>5</td>
<td>20.00</td>
<td>14.50</td>
<td>27.60</td>
<td>197.10</td>
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</table>
## 4.2.8 Details of engineering structures in watershed works:

<table>
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<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>District</td>
<td>Project</td>
<td>Name of structures</td>
<td>Type of treatment</td>
<td>Type of land</td>
<td>Executing agency</td>
<td>Target</td>
<td>Achievement</td>
</tr>
<tr>
<td></td>
<td></td>
<td></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>
</tr>
<tr>
<td>WKH</td>
<td>IWMP</td>
<td>Peripheral Bund</td>
<td>L</td>
<td>P</td>
<td>UG/WC</td>
<td>15811.84 Rmt</td>
<td>3.3238</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Loose boulder Contour bund</td>
<td>L</td>
<td>P</td>
<td>UG/WC</td>
<td>50 Ha</td>
<td>1.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Terracing</td>
<td>L</td>
<td>P</td>
<td>UG/WC</td>
<td>17.5 Ha</td>
<td>0.525</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CC Check Dam/D.Dam/HW Dam</td>
<td>D</td>
<td>C</td>
<td>UG/WC</td>
<td>17 Nos</td>
<td>5.4663</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Protection wall/R.Wall</td>
<td>D</td>
<td>C</td>
<td>UG/WC</td>
<td>55 Nos</td>
<td>12.05729</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Small Dug Out Pond/Farm Pond</td>
<td>D</td>
<td>P</td>
<td>UG/WC</td>
<td>8 Nos</td>
<td>1.2648</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Water Harvesting Structure</td>
<td>D</td>
<td>C</td>
<td>UG/WC</td>
<td>14 Nos</td>
<td>17.02244</td>
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<tr>
<td></td>
<td></td>
<td>Wells</td>
<td>D</td>
<td></td>
<td>UG/WC</td>
<td>10 Nos</td>
<td>1.4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total</td>
<td></td>
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<td></td>
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</tr>
</tbody>
</table>

Contd.
### Outcomes

<table>
<thead>
<tr>
<th>Reduction in run off (cu.m)</th>
<th>Area treated# (ha)</th>
<th>Water level (m)</th>
<th>Production (quintal)</th>
<th>Income (Rs.)</th>
<th>Mandays generated</th>
<th>No. of beneficiaries</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Pre-project</td>
<td>Post project</td>
<td>Pre-project</td>
<td>Post project</td>
<td>SC</td>
</tr>
<tr>
<td>1053</td>
<td>Paddy 10.65 qtls</td>
<td>&gt;2 qtls</td>
<td>&gt;27000</td>
<td>&gt;33000</td>
<td></td>
<td>38159</td>
</tr>
<tr>
<td></td>
<td>Maze 10.00 qtls</td>
<td>&gt;13 qtls</td>
<td>&gt;8400</td>
<td>&gt;10500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ginger 80.00 qtls</td>
<td>&gt;9 qtls</td>
<td>&gt;24000</td>
<td>&gt;27000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Potato 53.00 qtls</td>
<td>&gt;7 qtls</td>
<td>&gt;6860</td>
<td>&gt;7800</td>
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4.2.10 Details of activities connected with vegetative cover in watershed works:

<table>
<thead>
<tr>
<th>Dist</th>
<th>Project</th>
<th>Name of structure/ work</th>
<th>Type of treatment</th>
<th>Type of land</th>
<th>Executing agency</th>
<th>Target</th>
<th>Expected month &amp; year of completion</th>
<th>Achievement</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) Priv</td>
<td>(ii) Community</td>
<td>(iii) Others (pl. specify)</td>
<td>Area (ha)</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>Afforestation</td>
<td>R</td>
<td>C</td>
<td>UG/ WC/ Farmer</td>
<td>158 Ha</td>
<td>47400</td>
<td>15.958</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Improvement of Degraded forest</td>
<td>R</td>
<td>C</td>
<td>UG/ WC/ Farmer</td>
<td>45 Ha</td>
<td>4500</td>
<td>1.62</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Agro-Horticulture</td>
<td>L</td>
<td>P</td>
<td>Farmer/ Beneficiaries</td>
<td>79 Ha</td>
<td>12640</td>
<td>6.5965</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fuel wood</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fodder</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

# in case two or more activities are executed over same area, the figures in area treated should be accounted only once and should reflect only the actual watershed area treated.
4.2.11 Details of vegetative structures in watershed works: Phase – II (contd.):

<table>
<thead>
<tr>
<th>Reduction in run off (cu.m)</th>
<th>Outcomes</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Production (quintal)</td>
<td>Income (Rs.)</td>
<td>Mandays generated</td>
<td>No. of beneficiaries</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pre-project</td>
<td>Post-project</td>
<td>Pre-project</td>
<td>Post-project</td>
<td>SC</td>
</tr>
<tr>
<td></td>
<td>8703</td>
<td>5802</td>
<td>14505</td>
<td></td>
<td></td>
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</tbody>
</table>
4.2.12 Details of allied / other activities:

<table>
<thead>
<tr>
<th>District</th>
<th>Project</th>
<th>Name of activity</th>
<th>Type of land</th>
<th>Executing agency</th>
<th>Estimated cost (Rs. in lakh)</th>
<th>Expected month &amp; year of completion (mm/yyyy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>West Khasi Hills</td>
<td>Weinier IWMP V</td>
<td>Tailoring/Knitting</td>
<td>35 units SHG’s</td>
<td>2.80</td>
<td>3 yrs.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Carpentry/ Agri-implements/ Basket making etc.</td>
<td>46 units SHG’s Individual</td>
<td>2.30</td>
<td>3 yrs.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Piggery/Poultry</td>
<td>162 units Do</td>
<td>20.00</td>
<td>3 yrs.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Hollow Block Making</td>
<td>9 units SHG’s</td>
<td>0.45</td>
<td>3 yrs.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Groceryshop/Small Cottage Industry</td>
<td>12 units SHG’s Individual</td>
<td>3.60</td>
<td>3 yrs.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Kitchen gardening</td>
<td>208 units Individual</td>
<td>5.20</td>
<td>3 yrs.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pisciculture</td>
<td>79 units SHG’s/ Beneficiaries</td>
<td>14.50</td>
<td>3 yrs.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mad Block Making</td>
<td>9 units UG’s/SHG’s</td>
<td>2.70</td>
<td>2 yrs.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ginger/Turmeric Cultivation</td>
<td>12 units UG’s/SHG’s</td>
<td>1.80</td>
<td>2 yrs.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Rice Mill Operation.</td>
<td>15 units UG’s/SHG’s</td>
<td>7.50</td>
<td>3 yrs.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Vermi Composting</td>
<td>10 Units Individual</td>
<td>1.25</td>
<td>2 Yrs</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>62.10</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

@The activities given in this column are merely indicative and States are free to choose any other activity suited to the project area.
### 4.2.13 Details of allied / other activities:

<table>
<thead>
<tr>
<th>Pre-project</th>
<th>Post project</th>
<th>SC</th>
<th>ST</th>
<th>Others</th>
<th>Women</th>
<th>Total</th>
<th>SC</th>
<th>ST</th>
<th>Others</th>
<th>Women</th>
<th>Total</th>
</tr>
</thead>
</table>

#### 4.3 Consolidation and withdrawal phase

**Details of activities in the CPRs in the project areas**

<p>| Name of the District | Name of project | Name (s) of the villages | CPR particular | Activity proposed | Target area under the activity (ha) | Estimate expenditure (Rs in lakhs) | Expected no. of beneficiaries | Estimate contribution to WDF (Rs in lakhs) | Area treated under the activity (ha) | Expenditure incurred (Rs in lakhs) | Actual no. of beneficiaries | No of Mandays | WDF collected (Rs in lakhs) |
|---------------------|-----------------|--------------------------|----------------|-------------------|-----------------------------------|----------------------------------|-------------------------------|---------------------------------|---------------------------------|-----------------------------|----------------|---------------------------|
| West Khasi Hills    | WKH-IWMP V      | Mawduh, Mawthar, Sangriang, Mawthawphet | Degraded Forest/Wasteland | Improvement of Existing Degrading Forest | 45 Ha | 1.62 | 97 | | | | | | |
|                     |                 |                          | Springs | Drinking Well     | 12 Nos | 4.20 | &gt;115 | | | | | | |
|                     |                 |                          | Springs | Farm Pond         | 2 Nos  | 0.53500 | 20 | | | | | | |</p>
<table>
<thead>
<tr>
<th>Streams</th>
<th>Water Harvesting cum Washing place</th>
<th>1 No</th>
<th>5.22278</th>
<th>300</th>
</tr>
</thead>
<tbody>
<tr>
<td>Streams</td>
<td>Head water dam/Washing place</td>
<td>2 Nos</td>
<td>3.56641</td>
<td>100</td>
</tr>
<tr>
<td>Community Assets Chairs</td>
<td>400 Nos</td>
<td>1.01173</td>
<td>1279</td>
<td></td>
</tr>
<tr>
<td>Connectivity Foothpath</td>
<td>1 No</td>
<td>0.29908</td>
<td>&gt;191</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td>16.455</td>
<td>0.34000</td>
</tr>
</tbody>
</table>
CHAPTER V
PROJECT PHASING & BUDGETING
### PLAN FOR RELEASE OF PROJECT FUND BY SLNA TO PROJECT IMPLEMENTATION AGENCY (PIA) & WATERSHED COMMITTEE FOR WEINIER WATERSHED & UMTYNRU-WEISAR WATERSHED (WEST KHASI HILLS, IWMP - V)

(Physical in %) (Rs. In Lakhs)

<table>
<thead>
<tr>
<th>Particulars of Budget Component</th>
<th>Prescribed Percentage (%)</th>
<th>PIA (%)</th>
<th>Watershed Committee (%)</th>
<th>Year wise Phasing &amp; Breakup of Prescribed Percentage under Column 2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Phy</td>
<td>Fin</td>
<td>Phy</td>
<td>Fin</td>
</tr>
<tr>
<td>1. Administration</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>i. Administrative Cost</td>
<td>10</td>
<td>64.50</td>
<td>10</td>
<td>64.50</td>
</tr>
<tr>
<td>ii. Monitoring</td>
<td>1</td>
<td>6.45</td>
<td>1</td>
<td>6.45</td>
</tr>
<tr>
<td>iii. Evaluation</td>
<td>1</td>
<td>6.45</td>
<td>1</td>
<td>6.45</td>
</tr>
<tr>
<td><strong>TOTAL OF 1</strong></td>
<td>12%</td>
<td>77.40</td>
<td>12%</td>
<td>77.40</td>
</tr>
<tr>
<td>2. Preparatory Phase</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>i. Entry Point Activities</td>
<td>4</td>
<td>25.80</td>
<td>4</td>
<td>25.80</td>
</tr>
<tr>
<td>ii. Institutional, Capacity Building &amp; Training, IEC Activities</td>
<td>5</td>
<td>32.25</td>
<td>5</td>
<td>32.25</td>
</tr>
<tr>
<td>iii. Preparation of DPR</td>
<td>1</td>
<td>6.45</td>
<td>1</td>
<td>6.46</td>
</tr>
<tr>
<td><strong>TOTAL OF 2</strong></td>
<td>10%</td>
<td>64.50</td>
<td>10%</td>
<td>64.50</td>
</tr>
<tr>
<td>3. Watershed Works Phase</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>i. Watershed Treatment/ Development Works</td>
<td>50</td>
<td>322.50</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>ii. Livelihood Activities</td>
<td>10</td>
<td>64.50</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>iii. Production system &amp; Micro Enterprises</td>
<td>13</td>
<td>83.85</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>TOTAL OF 3</strong></td>
<td>73%</td>
<td>470.85</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>4. Consolidation &amp; Withdrawal Phase</td>
<td>5%</td>
<td>32.25</td>
<td>5%</td>
<td>32.25</td>
</tr>
<tr>
<td><strong>TOTAL OF 4</strong></td>
<td>5%</td>
<td>32.25</td>
<td>5%</td>
<td>32.25</td>
</tr>
<tr>
<td><strong>TOTAL OF 1 TO 4</strong></td>
<td>100%</td>
<td>645</td>
<td>27%</td>
<td>174.15</td>
</tr>
</tbody>
</table>

**PROJECT FUNDING:**

A. CENTRAL SHARE = 90% 580.50 (Lakhs)
B. STATE SHARE = 10% 64.50 (Lakhs)

**TOTAL (A+B) = 100% 645.00 (Lakhs)**
# Chapter V
## Project Phasing & Budgeting
### Combine Watershed Treatment Plan of Weinier Watershed & Umtynru-Weisar Watershed Under IWMP V--West Khasi Hills

**Name of District:** West Khasi Hills  
**Total Geographical Area:** 5226 Ha  
**Total Project Cost:** Rs.645 Lakhs

**Name of C&RD Block:** Nongstoin  
**Area Proposed for Treatment:** 4300 Ha  
**Nos. of Villages:** 11 Nos

<table>
<thead>
<tr>
<th>Sl No</th>
<th>Particulars/Activities</th>
<th>First Year</th>
<th>Second Year</th>
<th>Third Year</th>
<th>Fourth Year</th>
<th>Fifth Year</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Physical</td>
<td>Financial</td>
<td>Physical</td>
<td>Financial</td>
<td>Physical</td>
<td>Financial</td>
</tr>
<tr>
<td>1</td>
<td>I Administration</td>
<td>2%</td>
<td>12.90</td>
<td>5%</td>
<td>32.25</td>
<td>3%</td>
<td>19.35</td>
</tr>
<tr>
<td></td>
<td>A Administrative cost</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>i. Honorarium to WDT Members</td>
<td>2%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ii. Honorarium to Watershed Volunteers</td>
<td>12.90</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>iii. Honorarium to Watershed Committee Organizers</td>
<td>5%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>iv. Small Honorarium to Watershed Committee members</td>
<td>32.25</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>v. Small Honorarium to Sub Watershed Committee members</td>
<td>3%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>vi. Honorarium/fees to Chartered Accountant.</td>
<td>19.35</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>vii. Hiring Charge of Vehicles</td>
<td>10%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>viii. Office expenses/overhead expenditure (stores &amp; stationeries, POL, printing of booklets, IWMP Guidelines, signboard, Xerox, typing and printing, Computer set purchase, etc.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ix. Documentation and Reporting (Cost of cameras/digital cameras, photography etc), Honorarium to office assistant, TA/DA of staff, Hiring charge of office building.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>TOTAL OF (A) Administrative Cost</td>
<td>2%</td>
<td>12.90</td>
<td>5%</td>
<td>32.25</td>
<td>3%</td>
<td>19.35</td>
</tr>
<tr>
<td></td>
<td>B Monitoring</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>800- Other Expenditures</td>
<td>0.2%</td>
<td>1.29</td>
<td>0.5%</td>
<td>3.225</td>
<td>0.3%</td>
<td>1.935</td>
</tr>
<tr>
<td></td>
<td>02- Monitoring &amp; Evaluation</td>
<td>0.3%</td>
<td>1.935</td>
<td>0.5%</td>
<td>3.225</td>
<td>0.2%</td>
<td>1.29</td>
</tr>
<tr>
<td></td>
<td>TOTAL OF I (A+B+C)</td>
<td>16.125</td>
<td>38.70</td>
<td>22.575</td>
<td></td>
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</tr>
</tbody>
</table>
### II Preparatory Phase

#### A Entry Point Activities

<table>
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<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>
</tr>
</thead>
</table>
| 380- Other Expenditures | 4% | 25.80 | | | | | | | | | | | | | 25.80%

#### B Institutional, Capacity Building & Training, IEC activities

| 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 04- Institutional & Capacity Building | Other Administrative expenses | | | | | | | | | | | | | 32.25%

- Awareness Campaign & capacity Building of Farmers, Capacity Building of SHGs, UGs, Capacity Building of WC Members, Capacity Building of WDT/WV, Capacity Building of PIA, Institutional Training, Exposure Visit – Off Campus (SHGs, UGs, WC, WDT, etc.)

#### C Preparation of Detailed Project Report

<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>
</tr>
</thead>
</table>
| 05- Preparation of DPR | | | | | | | | | | | | | | 6.45%

- Cost of Resources Inventory Works
- Cost of PRA Exercises
- Cost of land use survey works
- Cost of Formulating

#### TOTAL OF C

<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>
</tr>
</thead>
</table>
| 6.45 | | | | | | | | | | | | | | 6.45%

#### TOTAL OF PREPARATORY PHASE (II A+B+C)

<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>
</tr>
</thead>
<tbody>
<tr>
<td>38.70</td>
<td>12.90</td>
<td>6.46</td>
<td>6.45</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

### III Watershed Works Phase

#### A Watershed Treatment/Development works

<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>
</tr>
</thead>
<tbody>
<tr>
<td>291 Ha 3.783 (M) 13.386 (M) 7.857</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>25.026%</td>
<td></td>
</tr>
</tbody>
</table>

- Arable Land Treatment
  1(a) Agro-Horticulture (Citrus Fruit)@Rs.8600/Ha
  1(b) Agro-Horticulture (Temperate Fruit)@Rs.8350/Ha
- Contour Bunding/Loose Boulder Bund@Rs.7500/Ha
- Peripheral Bunding@Rs.50/Rm
- Improvement of Existing Paddy Field@Rs.4300/ Ha
- Crop Demonstration@Rs.5000/Unit
- Terracing@Rs7500/-Ha
- Agro-Forestry@Rs.10100/ Ha

#### TOTAL OF (i)

<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>
</tr>
</thead>
<tbody>
<tr>
<td>19.12082</td>
<td>61.20009</td>
<td>16.71465</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>97.0355%</td>
</tr>
</tbody>
</table>

### Notes

- The table above outlines the expenditures for different phases of a project, including entry point activities, institutional capacity building, preparation of detailed project reports, and various watershed treatment/development works.
- Each expenditure category is further broken down into detailed subcategories, such as costs for resources inventory, PRA exercises, land use surveys, and formulating project reports.
- The totals for each phase and overall are calculated to provide a comprehensive view of the project's financial investments.
### ii. Non Arable Land Treatment

<table>
<thead>
<tr>
<th>Component</th>
<th>Quantity</th>
<th>Unit Price (Rs)</th>
<th>Total Cost (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) Afforestation with Pine/Non Pine @Rs.10100/- Ha</td>
<td>503 Ha</td>
<td>7,104</td>
<td>(M) 14,208 (M) 8,584</td>
</tr>
<tr>
<td>2) Improvement of Degraded forest @Rs.3600/- Ha</td>
<td>160 Ha</td>
<td>1.28</td>
<td>(M) 2.88 (M) 1.6</td>
</tr>
<tr>
<td><strong>TOTAL OF (ii)</strong></td>
<td></td>
<td></td>
<td><strong>8,384</strong></td>
</tr>
</tbody>
</table>

### iii. Drainage Line Treatment

<table>
<thead>
<tr>
<th>Component</th>
<th>Quantity</th>
<th>Unit Price (Rs)</th>
<th>Total Cost (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) Loose boulder check dam</td>
<td>11 Nos.</td>
<td>3,25805</td>
<td>23 Nos 19,90069</td>
</tr>
<tr>
<td>2) Check Dam/Diversion Dam/Head Water Dam</td>
<td>3 Nos</td>
<td>8,13021</td>
<td>118 Nos 54.82667</td>
</tr>
<tr>
<td>3) Protection Wall/Retaining Wall*</td>
<td>20 Nos</td>
<td>4.4576</td>
<td>7 Nos 4.5575</td>
</tr>
<tr>
<td>4) Small Dug-Out Pond/Farm Pond *</td>
<td>3 Nos</td>
<td>7.64184</td>
<td>32 Nos 49.51137</td>
</tr>
<tr>
<td>5) Water Harvesting Structures</td>
<td>1 No</td>
<td>0.39432</td>
<td></td>
</tr>
<tr>
<td>6) Wells @Rs.35000/each</td>
<td>10 Nos</td>
<td>3.5</td>
<td></td>
</tr>
<tr>
<td>7) Run Off Disposal Channel/Diversion Drain@ Rs. 20/Rm</td>
<td>8318 Rm</td>
<td>2,16268</td>
<td>300 Rm 0.078</td>
</tr>
<tr>
<td>8) Footbridge*</td>
<td>1 No</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL OF (iii)</strong></td>
<td></td>
<td></td>
<td><strong>20.87018</strong></td>
</tr>
</tbody>
</table>

**TOTAL OF A (i + ii + iii)** 7.50% 48.375 35% 225.75 7.50% 48.375 50% 322.50

### B Livelihood Activities

<table>
<thead>
<tr>
<th>Component</th>
<th>Quantity</th>
<th>Unit Price (Rs)</th>
<th>Total Cost (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>i. Carpentry/Blacksmithy/ Basketry/ Agri- Implements. @Rs.5000/Unit</td>
<td>20 units</td>
<td>1.00</td>
<td>33 units 1.65</td>
</tr>
<tr>
<td>ii. Tailoring/Knitting @Rs.8000/ Unit</td>
<td>20 units</td>
<td>1.60</td>
<td>30 units 2.40</td>
</tr>
<tr>
<td>iii. Hollow Block making @Rs. 5000/Unit</td>
<td>6 units</td>
<td>0.30</td>
<td>3 units 0.15</td>
</tr>
<tr>
<td>iv. Kitchen Garden/ Compost pit @Rs.2500/Unit</td>
<td>82 units</td>
<td>2.05</td>
<td>150 units 3.75</td>
</tr>
<tr>
<td>v. Poultry/Piggery @Rs.8000/- Unit</td>
<td>10 units</td>
<td>0.80</td>
<td>100 units 8.00</td>
</tr>
<tr>
<td>vi. Vermi Composting @ Rs. 12500/- Unit</td>
<td>6 units</td>
<td>0.60</td>
<td>10 units 1.00</td>
</tr>
<tr>
<td>vii. Pisciculture (Fingerling Distribution) @ Rs. 10000/- Unit</td>
<td>5 units</td>
<td>0.40</td>
<td></td>
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<tr>
<td>viii. Apiculture @ Rs.8000/Units</td>
<td></td>
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<tr>
<td><strong>TOTAL OF B (i – viii)</strong></td>
<td></td>
<td></td>
<td><strong>1%</strong></td>
</tr>
<tr>
<td>C Production System &amp; Micro Enterprises</td>
<td>800- Other Expenditures 08 - Production System &amp; Micro Enterprises</td>
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<tr>
<td>----------------------------------------</td>
<td>---------------------------------------------------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>i. Mud Block Making @ Rs. 30000/- Unit</td>
<td>2 units 0.60 9 units 2.70 18 units 5.40 29 units 8.70</td>
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<td></td>
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<tr>
<td>ii. Grocery Shop/Small Cottage Industry @ Rs. 30000/- Unit</td>
<td>2 units 0.60 4 units 1.20 6 units 1.80 12 units 3.60</td>
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<td></td>
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<tr>
<td>iii. Pisciculture (fingerling distribution) @ Rs. 30000/- Unit</td>
<td>3 units 0.90 24 units 7.20 28 units 8.40 55 units 16.50</td>
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<td></td>
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<tr>
<td>iv. Rice Mill Operation @ Rs. 50000/- Unit</td>
<td>3 units 1.50 15 units 7.50 18 units 9.00 36 units 18.00</td>
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<td></td>
</tr>
<tr>
<td>v. Piggery/ Poultry @ Rs. 30000/- Unit</td>
<td>2 units 0.60 37 units 11.10 50 units 15.00 89 units 26.70</td>
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<td></td>
</tr>
<tr>
<td>vi. Ginger/ Turmeric Cultivation @ Rs 15000/- Unit</td>
<td>4 units 0.60 8 units 1.20 12 units 1.80</td>
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<tr>
<td>vii. Other Vegetative Cultivation @ Rs.15000/unit</td>
<td>3 units 0.45 1 unit 0.15 13 units 1.95 17 units 2.55</td>
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<tr>
<td>viii. Weaving/Handloom @ Rs.30000/unit</td>
<td>6 units 1.80 6 units 1.80 8 units 2.40 20 units 6.00</td>
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<tr>
<td>TOTAL OF C (i – viii)</td>
<td>1% 6.45 5% 32.25 7% 45.15 13% 83.85</td>
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<tr>
<td>TOTAL OF III - WATERSHED WORKS PHASE (A+B+C)</td>
<td>5% 32.25</td>
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<td>IV CONSOLIDATION &amp; WITHDRAWAL PHASE</td>
<td>800- Other Expenditures 09 - Consolidation and withdrawal works</td>
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<tr>
<td>1. Repairs &amp; Maintenance of CPR’s</td>
<td>32.25</td>
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<tr>
<td>2. Improving the sustainability of various interventions</td>
<td>32.25</td>
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<tr>
<td>3. Documentation of successful experiences &amp; preparation of Consolidation Report</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>4. Capacity Building of W.C., SHGs, UGs, for maintenance &amp; operation of Assets during post project period</td>
<td></td>
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<tr>
<td>TOTAL OF IV</td>
<td>32.25 5% 32.25</td>
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<tr>
<td>GRAND TOTAL OF (I TO IV)</td>
<td>100% 645.00</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

N.B Items indicated as * shown have been selected for convergence with MGNREGS

Divisional Officer,
Cum Project Leader
Project Implementation Agency (IWMP)
Soil & Water Conservation Division,
Nongstoin

Deputy Commissioner,
Cum West Khasi Hills District,
Nongstoin
### PLAN FOR RELEASE OF PROJECT FUND BY SLNA TO PROJECT IMPLEMENTATION AGENCY (PIA) & WATERSHED COMMITTEE FOR WEINIER WATERSHED (WEST KHASI HILLS, IWMP – V)

#### (Physical in %) (Rs. In Lakhs)

<table>
<thead>
<tr>
<th>Particulars of Budget Component</th>
<th>Prescribed Percentage (%)</th>
<th>PIA (%)</th>
<th>Watershed Committee (%)</th>
<th>Year wise Phasing &amp; Breakup of Prescribed Percentage under Column 2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Phy</td>
<td>Fin</td>
<td>Phy</td>
<td>Fin</td>
</tr>
<tr>
<td>1. Administration</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>i. Administrative Cost</td>
<td>10</td>
<td>27.00</td>
<td>10</td>
<td>27.00</td>
</tr>
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<td>ii. Monitoring</td>
<td>1</td>
<td>2.70</td>
<td>1</td>
<td>2.70</td>
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<td>iii. Evaluation</td>
<td>1</td>
<td>2.70</td>
<td>1</td>
<td>2.70</td>
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<tr>
<td><strong>TOTAL OF 1</strong></td>
<td>12%</td>
<td>32.40</td>
<td>12%</td>
<td>32.40</td>
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<tr>
<td>2. Preparatory Phase</td>
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<tr>
<td>i. Entry Point Activities</td>
<td>4</td>
<td>10.80</td>
<td>4</td>
<td>10.80</td>
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<tr>
<td>ii. Institutional, Capacity Building &amp; Training, IEC Activities</td>
<td>5</td>
<td>13.50</td>
<td>5</td>
<td>13.50</td>
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<tr>
<td>iii. Preparation of DPR</td>
<td>1</td>
<td>2.70</td>
<td>1</td>
<td>2.70</td>
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<tr>
<td><strong>TOTAL OF 2</strong></td>
<td>10%</td>
<td>27.00</td>
<td>10%</td>
<td>27.00</td>
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<tr>
<td>3. Watershed Works Phase</td>
<td></td>
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<td></td>
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<tr>
<td>i. Watershed Treatment/ Development Works</td>
<td>50</td>
<td>135.00</td>
<td>-</td>
<td>-</td>
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<tr>
<td>ii. Livelihood Activities</td>
<td>10</td>
<td>27.00</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>iii. Production system &amp; Micro Enterprises</td>
<td>13</td>
<td>35.10</td>
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<tr>
<td><strong>TOTAL OF 3</strong></td>
<td>73%</td>
<td>175.10</td>
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<td>4. Consolidation &amp; Withdrawal Phase</td>
<td>5%</td>
<td>13.50</td>
<td>5%</td>
<td>13.50</td>
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<tr>
<td><strong>TOTAL OF 4</strong></td>
<td>5%</td>
<td>13.50</td>
<td>5%</td>
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<tr>
<td><strong>TOTAL OF 1 TO 4</strong></td>
<td>100%</td>
<td>270.00</td>
<td>27%</td>
<td>72.90</td>
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</table>

#### PROJECT FUNDING:

A. CENTRAL SHARE = 90% 243.00 (Lakhs)

B. STATE SHARE = 10% 27.00 (Lakhs)

**TOTAL (A+B) = 100% 270.00 (Lakhs)**

---

**Divisional Officer,**

department of Divisional Officer,

**Project Leader,**

Project Implementation Agency (IWMP),

Soil & Water Conservation Division,

Nongstoin

**Deputy Commissioner,**

West Khasi Hills District,

Nongstoin
## CHAPTER V
PROJECT PHASING & BUDGETING

WATERSHED TREATMENT PLAN OF WEINIER WATERSHED UNDER IWMP V– WEST KHASI HILLS

<table>
<thead>
<tr>
<th>NAME OF DISTRICT:</th>
<th>WEST KHASI HILLS</th>
<th>TOTAL GEOGRAPHICAL AREA:</th>
<th>2041 Ha</th>
<th>TOTAL PROJECT COST:</th>
<th>Rs.270 LAKHS</th>
</tr>
</thead>
<tbody>
<tr>
<td>NAME OF C&amp;D BLOCK:</td>
<td>NONGSTOIN</td>
<td>AREA PROPOSED FOR TREATMENT:</td>
<td>1800 Ha</td>
<td>NOS. OF VILLAGES:</td>
<td>4 Nos</td>
</tr>
</tbody>
</table>

### (Physical in Ha/Nos/Rm/Units) (Rupees in Lakhs)

<table>
<thead>
<tr>
<th>Sl No</th>
<th>Particulars/Activities</th>
<th>Budget Head of Account</th>
<th>First Year</th>
<th>Second Year</th>
<th>Third Year</th>
<th>Fourth Year</th>
<th>Fifth Year</th>
<th>TOTAL</th>
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<tbody>
<tr>
<td>1</td>
<td>A Administrative cost</td>
<td></td>
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<td></td>
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<tr>
<td>2</td>
<td>1. Honorarium to WDT Members</td>
<td>S&amp;WC</td>
<td>2%</td>
<td>5.40</td>
<td>5%</td>
<td>13.50</td>
<td>3%</td>
<td>8.10</td>
</tr>
<tr>
<td>3</td>
<td>2. Honorarium to Watershed Volunteers</td>
<td>800- Other Expenses</td>
<td></td>
<td></td>
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<tr>
<td>4</td>
<td>3. Honorarium to Watershed Committee Organizers</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>5</td>
<td>4. Small Honorarium to Watershed Committee members</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>6</td>
<td>5. Small Honorarium to Sub Watershed Committee members</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>7</td>
<td>6. Honorarium/Fees to Chartered Accountant.</td>
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<tr>
<td>8</td>
<td>7. Hiring Charge of Vehicles</td>
<td></td>
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<tr>
<td>9</td>
<td>8. Office expenses/overhead expenditure (stores &amp; stationeries, POL, Printing of booklets, IWMP Guidelines, Signboard, Xerox, Typing and printing, Computer Set Purchase, etc.)</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>10</td>
<td>9. Documentation and Reporting (Cost of Cameras/Digital cameras, photography etc).</td>
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<td></td>
<td></td>
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<tr>
<td>TOTAL OF (A) Administrative Cost</td>
<td></td>
<td>2%</td>
<td>5.40</td>
<td>5%</td>
<td>13.50</td>
<td>3%</td>
<td>8.10</td>
<td>10%</td>
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<tr>
<td>B</td>
<td>Monitoring</td>
<td>800- Other Expenses</td>
<td>0.2%</td>
<td>0.54</td>
<td>0.5%</td>
<td>1.35</td>
<td>0.3%</td>
<td>0.81</td>
</tr>
<tr>
<td>C</td>
<td>Evaluation</td>
<td>0.3%</td>
<td>0.81</td>
<td>0.5%</td>
<td>1.35</td>
<td>0.2%</td>
<td>0.54</td>
<td>1%</td>
</tr>
<tr>
<td>TOTAL OF I (A+B+C)</td>
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<td>6.75</td>
<td>16.20</td>
<td>9.45</td>
<td>32.40</td>
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</tr>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
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<tr>
<td><strong>II PREPARATORY PHASE</strong></td>
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<td></td>
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<td></td>
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<tr>
<td><strong>A. Entry Point Activities</strong></td>
<td>800- Other Expenditures 27-Minor works</td>
<td>4%</td>
<td>10.80</td>
<td>4%</td>
<td>10.80</td>
<td></td>
<td></td>
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<tr>
<td><strong>B. Institutional, Capacity Building &amp; Training, IEC activities</strong></td>
<td>800- Other Expenditures 30-Institutional Training  &amp; Capacity Building 20-Other Administrative expenses</td>
<td>1%</td>
<td>2.70</td>
<td>2%</td>
<td>5.40</td>
<td>1%</td>
<td>2.70</td>
<td>1%</td>
</tr>
<tr>
<td><strong>C. Preparation of Detailed Project Report</strong></td>
<td>800- Other Expenditures 05-Preparation of DPR</td>
<td>0.80</td>
<td>0.80</td>
<td>1.15</td>
<td>1.15</td>
<td>0.25</td>
<td>0.25</td>
<td>0.50</td>
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<tr>
<td><strong>TOTAL OF C</strong></td>
<td>1%</td>
<td>2.70</td>
<td>5.40</td>
<td>2.70</td>
<td>2.70</td>
<td>1%</td>
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<td>2.70</td>
<td>2.70</td>
<td>27.00</td>
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<td><strong>III WATERSHED WORKS PHASE</strong></td>
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<tr>
<td><strong>A. Watershed Treatment/Development works</strong></td>
<td>800- Other Expenditures 06-Watershed Treatment/Dev. Works</td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td><strong>i. Arable Land Treatment</strong></td>
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<td></td>
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<td></td>
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<td></td>
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<tr>
<td>1) Agro-Horticulture @Rs.8350/ Ha</td>
<td>79 Ha</td>
<td>1.886</td>
<td>(M)</td>
<td>2.8282</td>
<td>79 Ha</td>
<td>1.8723</td>
<td>79 Ha</td>
<td>6.5965</td>
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<tr>
<td>2) Contour Bunding/Loose Boulder Bund @Rs.7500/ Ha</td>
<td>5 Ha</td>
<td>0.375</td>
<td>43 Ha</td>
<td>3.225</td>
<td>2 Ha</td>
<td>0.15</td>
<td>50 Ha</td>
<td>3.75</td>
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<tr>
<td>3) Peripheral Bunding @Rs.50/Rm</td>
<td>249.4 Rm</td>
<td>0.1247</td>
<td>14332.94 Rm</td>
<td>7.16647</td>
<td>1229.5 Rm</td>
<td>0.614475</td>
<td>15811.8 Rm</td>
<td>7.90592</td>
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<tr>
<td>4) Improvement of Existing Paddy Field @Rs.4300/ Ha</td>
<td>8 Ha</td>
<td>0.344</td>
<td>46 Ha</td>
<td>1.978</td>
<td>6 Ha</td>
<td>0.258</td>
<td>60 Ha</td>
<td>2.58</td>
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<tr>
<td>5) Crop Demonstration @Rs.5000/Unit</td>
<td>5 units</td>
<td>0.25</td>
<td>34 units</td>
<td>1.70</td>
<td>6 units</td>
<td>0.30</td>
<td>45 units</td>
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<tr>
<td>6) Terracing @Rs.7500/ Ha</td>
<td>12.5 Ha</td>
<td>0.9375</td>
<td>5 Ha</td>
<td>0.375</td>
<td>17.5 Ha</td>
<td>1.3125</td>
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<tr>
<td><strong>TOTAL OF (i)</strong></td>
<td>2.9897</td>
<td>17.83517</td>
<td>3.569779</td>
<td>24.39492</td>
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<tr>
<td><strong>ii. Non Arable Land Treatment</strong></td>
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<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1) Afforestation with Pine/Non Pine @Rs.10100/- Ha*</td>
<td>158 Ha</td>
<td>3.792</td>
<td>(M)</td>
<td>7.584</td>
<td>(M)</td>
<td>4.582</td>
<td>158 Ha</td>
<td>15.958</td>
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<tr>
<td>2) Improvement of Degraded forest @Rs.3600/- Ha</td>
<td>45 Ha</td>
<td>0.36</td>
<td>(M)</td>
<td>0.81</td>
<td>(M)</td>
<td>0.45</td>
<td>45 Ha</td>
<td>1.62</td>
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<tr>
<td><strong>TOTAL OF (ii)</strong></td>
<td>4.152</td>
<td>8.394</td>
<td>5.032</td>
<td>203 Ha</td>
<td>17.578</td>
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### iii. Drainage Line Treatment

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<th>Description</th>
<th>No.</th>
<th>Cost 1</th>
<th>Cost 2</th>
<th>Cost 3</th>
<th>Cost 4</th>
<th>Cost 5</th>
<th>Cost 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) Check Dam/Diversion Dam/Head Water Dam</td>
<td>3</td>
<td>3.25805</td>
<td>11 Nos</td>
<td>7.48199</td>
<td>3 Nos</td>
<td>2.9257</td>
<td>17 Nos</td>
</tr>
<tr>
<td>2) Protection Wall/Retaining Wall *</td>
<td>3</td>
<td>1.44341</td>
<td>42 Nos</td>
<td>23.74967</td>
<td>10 Nos</td>
<td>4.95015</td>
<td>55 Nos</td>
</tr>
<tr>
<td>3) Small Dug-Out Pond/Farm Pond *</td>
<td>1</td>
<td>0.765</td>
<td>5 Nos</td>
<td>1.8615</td>
<td>2 Nos</td>
<td>0.5355</td>
<td>8 Nos</td>
</tr>
<tr>
<td>4) Water Harvesting Structures</td>
<td>3</td>
<td>7.64184</td>
<td>10 Nos</td>
<td>31.67767</td>
<td>1 No</td>
<td>3.2366</td>
<td>14 Nos</td>
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<td>5) Wells @Rs.35000/each*</td>
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<td></td>
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<td></td>
<td></td>
<td>10 Nos</td>
</tr>
<tr>
<td><strong>TOTAL OF (iii)</strong></td>
<td></td>
<td>13.1083</td>
<td>68.27083</td>
<td>11.64791</td>
<td>93.02708</td>
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</tbody>
</table>

### B Livelihood Activities

<table>
<thead>
<tr>
<th>Description</th>
<th>800- Other Expenditures</th>
<th>07-Livelihood activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>i. Carpentry/Blacksmithy/Basketry/Agri- Implements @Rs.5000/Unit</td>
<td>8 units 0.4</td>
<td>14 units 0.7</td>
</tr>
<tr>
<td>ii. Tailoring/Knitting @Rs.8000/Unit</td>
<td>10 units 0.80</td>
<td>10 units 0.80</td>
</tr>
<tr>
<td>iii. Hollow Block making @ Rs.5000/Unit</td>
<td>6 units 0.30</td>
<td>3 units 0.15</td>
</tr>
<tr>
<td>iv. Kitchen Garden/Compost pit @Rs.2500/Unit</td>
<td>20 units 0.50</td>
<td>60 units 1.50</td>
</tr>
<tr>
<td>v. Poultry/Piggery @Rs.8000/- Unit</td>
<td>5 units 0.4</td>
<td>50 units 4.00</td>
</tr>
<tr>
<td>vi. Vermi Composting @ Rs.12500/- Unit</td>
<td>4 units 0.50</td>
<td>6 units 0.75</td>
</tr>
<tr>
<td>vii. Pisciculture (Fingerling Distribution) @ Rs.10000/- Unit</td>
<td>6 units 0.60</td>
<td>3 units 0.30</td>
</tr>
<tr>
<td><strong>TOTAL OF B (i – vii)</strong></td>
<td>1%</td>
<td>2.70</td>
</tr>
</tbody>
</table>

### C Production System & Micro Enterprises

<table>
<thead>
<tr>
<th>Description</th>
<th>800- Other Expenditures</th>
<th>08- Production System &amp; Micro Enterprises</th>
</tr>
</thead>
<tbody>
<tr>
<td>i. Mud Block Making @ Rs.30000/- Unit</td>
<td>3 units 0.90</td>
<td>6 units 1.80</td>
</tr>
<tr>
<td>ii. Grocery Shop/Small Cottage Industry @ Rs. 30000/- Unit</td>
<td>2 units 0.6</td>
<td>4 units 1.20</td>
</tr>
<tr>
<td>iii. Pisciculture (fingerling distribution) @ Rs. 30000/- Unit</td>
<td>15 units 4.50</td>
<td>18 units 5.40</td>
</tr>
<tr>
<td>iv. Rice Mill Operation @ Rs. 50000/- Unit</td>
<td>3 units 1.50</td>
<td>3 units 1.50</td>
</tr>
<tr>
<td>v. Piggery/Poultry @ Rs. 30000/- Unit</td>
<td>2 units 0.60</td>
<td>16 units 4.80</td>
</tr>
<tr>
<td>vi. Ginger/Turmeric Cultivation @ Rs 15000/- Unit</td>
<td>4 units 0.60</td>
<td>8 units 1.20</td>
</tr>
<tr>
<td><strong>TOTAL OF C (i – vii)</strong></td>
<td>1%</td>
<td>2.70</td>
</tr>
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</table>

**TOTAL OF III - WATERSHED WORKS PHASE (A+B+C)** 197.10
<table>
<thead>
<tr>
<th>IV</th>
<th>CONSOLIDATION &amp; WITHDRAWAL PHASE</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Repairs &amp; Maintenance of CPR’s</td>
<td>800- Other Expenditure</td>
<td>4.30</td>
<td>4.30</td>
</tr>
<tr>
<td>2.</td>
<td>Improving the sustainability of various interventions</td>
<td>09- Consolidation and withdrawal works</td>
<td>2.50</td>
<td>2.50</td>
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<tr>
<td>3.</td>
<td>Documentation of successful experiences &amp; preparation of Consolidation Report</td>
<td>09- Consolidation and withdrawal works</td>
<td>3.50</td>
<td>3.50</td>
</tr>
<tr>
<td>4.</td>
<td>Capacity Building of W.C., SHGs, UGs, for maintenance &amp; operation of Assets during post project period</td>
<td>09- Consolidation and withdrawal works</td>
<td>3.20</td>
<td>3.20</td>
</tr>
<tr>
<td>TOTAL OF IV</td>
<td>13.50</td>
<td>5%</td>
<td>13.50</td>
<td></td>
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<tr>
<td>GRAND TOTAL OF (I TO IV)</td>
<td>270.00</td>
<td>100%</td>
<td>270.00</td>
<td></td>
</tr>
</tbody>
</table>

N:B Items indicated as * shown have been selected for convergence with MGNREGS

**Divisional Officer,**  
Cum  
Project Leader  
Project Implementation Agency (IWMP)  
Soil & Water Conservation Division,  
Nongstoin

**Deputy Commissioner,**  
West Khasi Hills District,  
Nongstoin
## Village Wise Action Plan of Weinier Watershed Under IWMP-V-West Khasi Hills

**Name of District:** West Khasi Hills  
**Nos of Villages:** 4  
**Name of C&RD Block:** Nongstoin  
**Project Area:** 1800 Ha  
**Physical in Ha/Nos/Rm/Units**  
**Financial:** (Rs. In Lakhs)

<table>
<thead>
<tr>
<th>Sl.No</th>
<th>MAWDUH</th>
<th>MAWTHAR</th>
<th>SANGRIANG</th>
<th>MAWTHAWPHE T</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phy</td>
<td>Fin</td>
<td>Phy</td>
<td>Fin</td>
<td>Phy</td>
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<td>---------</td>
<td>-----------</td>
<td>--------------</td>
</tr>
<tr>
<td>1</td>
<td>Agro-Horticulture</td>
<td>15</td>
<td>1.2525</td>
<td>20</td>
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<tr>
<td>2</td>
<td>C-Bunding/ LB Bund</td>
<td>14</td>
<td>1.05</td>
<td>10</td>
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<td>3</td>
<td>P.Bunding</td>
<td>8000</td>
<td>4</td>
<td>1400</td>
</tr>
<tr>
<td>4</td>
<td>Impvt of existing paddy Field</td>
<td>15</td>
<td>0.645</td>
<td>15</td>
</tr>
<tr>
<td>5</td>
<td>Crop Demonstration</td>
<td>10</td>
<td>0.5</td>
<td>10</td>
</tr>
<tr>
<td>6</td>
<td>Terracing</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total of A</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total of B</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total of C</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total of A+B+C</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Activities</td>
<td>Sl.No</td>
<td>MAWDUH Phy</td>
<td>MAWDUH Fin</td>
<td>MAWTHAR Phy</td>
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<tr>
<td>------------</td>
<td>-------</td>
<td>-------------</td>
<td>-------------</td>
<td>-------------</td>
</tr>
<tr>
<td>(D)Livelihood Activities</td>
<td>1</td>
<td>Carpentry/Black Smithy/Basketry/Agri-implements@Rs 5000/unit</td>
<td>12</td>
<td>0.6</td>
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<tr>
<td>2</td>
<td>Tailoring/Knitting@Rs8000/-unit</td>
<td>9</td>
<td>0.72</td>
<td>9</td>
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<tr>
<td>3</td>
<td>Hollow Block Making @Rs 5000/unit</td>
<td>2</td>
<td>0.1</td>
<td>2</td>
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<td>4</td>
<td>Kitchen Garden/Compost pit@Rs 2500/unit</td>
<td>42</td>
<td>1.05</td>
<td>31</td>
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<tr>
<td>5</td>
<td>Poultry/Piggery@Rs 8000/unit</td>
<td>25</td>
<td>2</td>
<td>25</td>
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<td>6</td>
<td>Vermicomposting@Rs.12500/-</td>
<td>2</td>
<td>0.25</td>
<td>2</td>
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<tr>
<td>7</td>
<td>Pisciculture(fingerling distribution)@Rs 10000/-unit</td>
<td>12</td>
<td>1.2</td>
<td>14</td>
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<td>Total of D</td>
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<td>5.92</td>
<td>95</td>
<td>5.845</td>
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<tr>
<td>(E) Production System &amp; Micro Enterprise</td>
<td>1</td>
<td>Mud Block Making@Rs.30000</td>
<td>2</td>
<td>0.6</td>
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<tr>
<td>2</td>
<td>Grocery Shop/Small Cottage Industry@Rs 30000/-unit</td>
<td>3</td>
<td>0.9</td>
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<tr>
<td>3</td>
<td>Pisciculture(fingerling distribution)@Rs 30000/-unit</td>
<td>8</td>
<td>2.4</td>
<td>8</td>
</tr>
<tr>
<td>4</td>
<td>Rice Mill Operation@Rs 50000/-unit</td>
<td>4</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>5</td>
<td>Ginger/Turmeric Cultivation@Rs.15000</td>
<td>3</td>
<td>0.45</td>
<td>3</td>
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<tr>
<td>6</td>
<td>Piggery/Poultry@Rs 30000/-unit</td>
<td>8</td>
<td>2.4</td>
<td>8</td>
</tr>
<tr>
<td>Total of E</td>
<td></td>
<td>8.75</td>
<td>28</td>
<td>8.75</td>
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<tr>
<td>GRAND TOTAL of A+B+C+D+E</td>
<td></td>
<td>197.10</td>
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</table>
## WEINIER WATERSHED (IWMP-V)
### CHART FOR ENTRY POINT ACTIVITIES

<table>
<thead>
<tr>
<th>Sl No</th>
<th>Name of Villages</th>
<th>ITEM OF WORK</th>
<th>MEASUREMENT</th>
<th>COST (Rs)</th>
<th>LOCATION</th>
<th>G.P.S. READING</th>
<th>REMARKS</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>T</td>
<td></td>
<td>LATITUDE</td>
<td>LONGITUDE</td>
<td>ALTITUDE</td>
</tr>
<tr>
<td>1</td>
<td>MAWDUH</td>
<td>i) Drinking well</td>
<td>As per Estimate</td>
<td>35,000/-</td>
<td>Mawduh</td>
<td>25° 28 38.1’</td>
<td>1449m</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ii) Head Water Dam/Washing Place</td>
<td>1,60,282/-</td>
<td>Mawduh</td>
<td>25° 28 20.4’</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>iii) Community Assets (Chairs)</td>
<td>25,300/-</td>
<td>Mawduh</td>
<td>091° 15 59.9’</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>@ 253 each 100 N0s</td>
<td>25,300/-</td>
<td>091° 15 48.6’</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>MAWTHAR</td>
<td>i) Drinking well</td>
<td>As per Estimate</td>
<td>35,000/-</td>
<td>Mawthar</td>
<td>25° 27 54.3’</td>
<td>1404m</td>
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<tr>
<td></td>
<td></td>
<td>ii) Foot Path</td>
<td>29,908/-</td>
<td>Mawthar</td>
<td>091° 15 14.5’</td>
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<tr>
<td></td>
<td></td>
<td>iii) Community Assets (Chairs)</td>
<td>25,300/-</td>
<td>Mawthar</td>
<td>091° 15 18.1’</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>@ 253 each 100 N0s</td>
<td>25,300/-</td>
<td>1406m</td>
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<tr>
<td>3</td>
<td>SANGRIANG</td>
<td>i) Water Harvesting Cum Washing Place/ Channel</td>
<td>As per Estimate</td>
<td>5,22,278/-</td>
<td>DomMawlieh</td>
<td>25° 28 22.9’</td>
<td>1394m</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>@ 253 each 100 N0s</td>
<td>25,300/-</td>
<td>091° 10 43.3’</td>
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<td></td>
</tr>
<tr>
<td>4</td>
<td>MAWTHAWPHET</td>
<td>i) Head Water Dam/Washing Place</td>
<td>As per Estimate</td>
<td>1,96,359/-</td>
<td>Mawthawphet</td>
<td>25° 29 15.4’</td>
<td>1414m</td>
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<td>ii) Community Assets (Chairs)</td>
<td>25,300/-</td>
<td>Mawthawphet</td>
<td>091° 14 49.4’</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>@ 253 each 100 N0s</td>
<td>25,300/-</td>
<td>1414m</td>
<td></td>
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</tbody>
</table>
|       |                  | TOTAL        |              | 10,80,027/- | Say | 10,80,000/- | /


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

<table>
<thead>
<tr>
<th>S L. No</th>
<th>Name of State</th>
<th>Name of Districts</th>
<th>Names of Projects</th>
<th>Year of sanction</th>
<th>From To</th>
<th>Area of the projects (ha)</th>
<th>Project cost (Rs. In Lakh)</th>
<th>Code nos. (as per DoLR’s unique codification)</th>
<th>Area details (ha) falling within the projects</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Meghalaya</td>
<td>West Khasi Hills</td>
<td>West Khasi Hills – IWMP III</td>
<td>2010-11</td>
<td>2010-11, 2014-15</td>
<td>1800 Ha</td>
<td>270 Lakhs</td>
<td>Weinier 3C1B2b5g</td>
<td>Cultivated irrigated area 490</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cultivated rainfed area</th>
<th>Cultivated irrigated area</th>
<th>Uncultivated wasteland</th>
<th>Pvt. Agri. Land</th>
<th>Forest land</th>
<th>Comm. land</th>
<th>Others (pl. specify)</th>
<th>Total area (ha)</th>
</tr>
</thead>
<tbody>
<tr>
<td>490</td>
<td>270</td>
<td>1282</td>
<td>240</td>
<td>250</td>
<td>800</td>
<td>501</td>
<td>2041</td>
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</table>
Fund provision for the IWMP projects from all sources:

<table>
<thead>
<tr>
<th>District</th>
<th>Name of Projects</th>
<th>IWMP Fund</th>
<th>Convergence funds</th>
<th>PPP</th>
<th>Community</th>
<th>Institutional finance</th>
<th>Others (Pl. specify)</th>
<th>Total (Lakhs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>West Khasi Hills</td>
<td>West Khasi Hills – IWMP V</td>
<td>243 lakhs</td>
<td>27 lakhs</td>
<td>NREGS</td>
<td>2.0393</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>Sl No.</th>
<th>Names of States</th>
<th>Name of Districts</th>
<th>Name of Projects</th>
<th>Name of the Bank and Branch Where Project account has been opened</th>
<th>Account No. (to be obtained confidentially)</th>
<th>Account type (Savings/Current/Others)</th>
<th>Name &amp; Designation of authorized Persons who operate the Account.</th>
<th>Name of the Bank and Branch Where project account has been opened</th>
<th>Account number (to be obtained confidentially)</th>
<th>Account type (savings/current/others)</th>
<th>Name &amp; Designation of authorized persons who operate the account.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Meghalaya</td>
<td>West Khasi Hills</td>
<td>WKH – IWMP V</td>
<td>State Bank of India, Nongstoin Branch</td>
<td>3115065 3956</td>
<td>Savings</td>
<td>Shri D.K.Khonglah D.S. &amp; W.C.O.</td>
<td>Weinier Watershed Committee</td>
<td>-</td>
<td>Savings</td>
<td>Chairman, W.C., Secretary, W.C., Project Leader</td>
</tr>
</tbody>
</table>
Details of Convergence of IWMP with other Schemes:

<table>
<thead>
<tr>
<th>District</th>
<th>Name of Projects</th>
<th>Name of Department with scheme converging with IWMP</th>
<th>Fund 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 @ Level at which decision for convergence was taken</th>
<th>Level at which decision for convergence was taken</th>
</tr>
</thead>
<tbody>
<tr>
<td>West Khasi Hills</td>
<td>W.K.H-IWMP V</td>
<td>C&amp;RD Deptt. (MGNREGS)</td>
<td>2.03930</td>
<td>Small Dug Out Pond/Farm pond</td>
<td>III.A.i.1)Afforestation</td>
<td>District Level &amp; Block Level</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(a) Structures</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(b) Livelihood</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(c) any others</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(pl. specify)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Wells</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Note: The level at which the decision for convergence was taken is typically at the district level and sometimes at the block level.*
To

The Divisional Officer
Soil & Water Conservation Division
Nongstoin

Sub:- Convergence of MGNREGA with other programme- Approval of.

Sir,

With reference to the subject cited above, please find enclosed herewith Certificate of Approval in respect of the projects mentioned therein to be taken up under convergence of MGNREGA with other programmes of your Department during the financial year 2011-12, 2012-13 and 2013-14.

This is for favour of your information and necessary action.

Enclo: As stated above.

Yours faithfully,

District Programme Coordinator
MGNREGA/MGNREGS
West Khasi Hills District
Nongstoin

Copy to:
1. The Officer on Special Duty to the Govt. of Meghalaya C&RD Deptt. (NREGA) for information and necessary action.
2. The Block Development Officer Malinang/Nongstoin/Mawth德拉ishan/Mawshynrut C&RD Block for information and necessary action.

District Programme Coordinator
MGNREGA/MGNREGS
West Khasi Hills District
Nongstoin

The Secretary
Divisional Officer,
Soil & Water Conservation Division
OFFICE OF THE
DISTRICT RURAL DEVELOPMENT AGENCY
WEST KHASI HILLS DISTRICT
NONGSTOIN

No.DRDA/NG-63/Con/NREGA/09/ 85 Dated Nongstoin the 15th April, 2011

CERTIFICATE OF APPROVAL

In pursuance to the Provision of Convergence/Dovetailing of Mahatma Gandhi NREGA Operational Guidelines, the below mentioned projects are hereby approved to be taken up under convergence of IWMP during the financial year 2011-12, 2012-13 and 2013-14 with Soil and Water Conservation Department, Nongstoin Vide proposal No.ND/IWMP/GEMU2011-12/16 dt 12th April, 2011.

<table>
<thead>
<tr>
<th>Block</th>
<th>Name of Project</th>
<th>Unit of Measurement</th>
<th>Name of Village</th>
<th>Fin. Year</th>
<th>Wages MGNREGS (60%)</th>
<th>Materials Soil &amp; WC Dept (40%)</th>
<th>Total (100%)</th>
<th>Phy. target</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Afforestation</td>
<td>Ha</td>
<td>1.Mawdoh</td>
<td>2nd 2011-12</td>
<td>14400.00</td>
<td>9600.00</td>
<td>24000.00</td>
<td>10Ha</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2.Mawthawphel</td>
<td>3rd 2012-13</td>
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<td>76500.00</td>
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<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>3rd 2012-13</td>
<td>-</td>
<td>50953.60</td>
<td>-</td>
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<td></td>
<td></td>
<td></td>
<td>4th 2013-14</td>
<td>-</td>
<td>-</td>
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<td></td>
</tr>
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<td>Total of 3</td>
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<td></td>
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<td>-</td>
<td>14000.00</td>
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<td>4th 2013-14</td>
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District Programme Coordinator
MGNREGA/MGNREGS
West Khasi Hills District
Nongstoin
<table>
<thead>
<tr>
<th>Sl.No</th>
<th>Nos &amp; Name of villages</th>
<th>Name of works</th>
<th>Year of Project</th>
<th>IWMP (40%)</th>
<th>MGNREGA (60%)</th>
<th>Total (100%)</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Amount (Rs)</td>
<td>Amount (Rs)</td>
<td>PHY. Target</td>
<td>Amount (Rs)</td>
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<td>28800.00</td>
<td>48000.00</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>4th 2013-14</td>
<td>11600.00</td>
<td>17400.00</td>
<td>29000.00</td>
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<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Total of 1</td>
<td>40400.00</td>
<td>60600.00</td>
<td>10 Ha</td>
<td>101000.00</td>
</tr>
<tr>
<td>1.</td>
<td>4 Nos. Mawduh Mawthar Sangriang Mawthawphet</td>
<td>Farm Pond</td>
<td>2nd 2011-12</td>
<td>30600.00</td>
<td>45900.00</td>
<td>1 No</td>
<td>76500.00</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>3rd 2012-13</td>
<td>-</td>
<td>-</td>
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<td></td>
</tr>
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<td></td>
<td></td>
<td></td>
<td>4th 2013-14</td>
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<td>-</td>
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<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Total of 2</td>
<td>30600.00</td>
<td>45900.00</td>
<td>1 No</td>
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</tr>
<tr>
<td>1.</td>
<td></td>
<td>Retaining Wall</td>
<td>2nd 2011-12</td>
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<td>-</td>
<td></td>
</tr>
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<td></td>
<td></td>
<td>3rd 2012-13</td>
<td>50953.60</td>
<td>76430.40</td>
<td>3 Nos</td>
<td>127384.00</td>
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<tr>
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<td></td>
<td></td>
<td>4th 2013-14</td>
<td>-</td>
<td>-</td>
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<tr>
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<td>Total of 3</td>
<td>50953.60</td>
<td>76430.40</td>
<td>3 Nos</td>
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<td>14000.00</td>
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<td>1 No</td>
<td>35000.00</td>
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<tr>
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<td></td>
<td></td>
<td>3rd 2012-13</td>
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<td></td>
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<td></td>
<td>4th 2013-14</td>
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<td>-</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Total of 4</td>
<td>14000.00</td>
<td>21000.00</td>
<td>1 No</td>
<td>35000.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Grand Total</td>
<td>135953.60</td>
<td>203930.40</td>
<td></td>
<td>339884.00</td>
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</table>
Public-Private Partnership in the IWMP projects: NIL

<table>
<thead>
<tr>
<th>District</th>
<th>Name of project</th>
<th>Name of Private Sector Partner Agency</th>
<th>Type of agreement signed</th>
<th>Financial contribution</th>
<th>Partnership Interventions</th>
<th>Expected Outcomes</th>
<th>Actual Outcomes</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>a) MoU</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>b) Contract</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>c) Any other (pl. specify)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
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<td></td>
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<td>Private sector</td>
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<td></td>
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</tr>
</tbody>
</table>

* from Column no. 2, total no. of States implementing the programme, from Column no. 3, total no. of Districts; from Column no. 4, total no. of projects under PPP; from Column no. 5, total no. of private companies/agencies, from column no. 7, total amounts may be mentioned at the end of the table for the entire country.
CHAPTER VI
CAPACITY BUILDING
**CHAPTER VI**

**CAPACITY BUILDING**

Capacity Building is a process to systematically upgrade the skill of individuals or groups for achieving a specific target. Capacity building in the project has been planned for all the 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>
<th>Accreditation details</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Meghalaya</td>
<td>NIRD (NER)</td>
<td>Guwahati</td>
<td>Central Govt. Director</td>
<td>Remote Sensing, Rural Devt.</td>
<td>NA</td>
<td>Performance</td>
<td>Reference Year</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>SIRD</td>
<td>Nongsder</td>
<td>State Govt. Director</td>
<td>Capacity Building</td>
<td>NA</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>RRTC</td>
<td>Umran</td>
<td>Don-Bosco Director</td>
<td>Agri-Horti, Animal Husbandry, Entrepreneurship</td>
<td>NA</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>ICAR</td>
<td>Umiam</td>
<td>Central Govt. Director</td>
<td>Do</td>
<td>NA</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td>VTC</td>
<td>Kyrdem Kulai</td>
<td>State Govt. Director</td>
<td>Animal Husbandry</td>
<td>NA</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>6</td>
<td></td>
<td>Fruit Garden</td>
<td>Shillong</td>
<td>State Govt. Director</td>
<td>Agri-Horti, Fruit Processing</td>
<td>NA</td>
<td>-</td>
<td>-</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 2010 – 11 as on 31/03/2011 (dd/mm/yyyy)*

<table>
<thead>
<tr>
<th>Project Stakeholders</th>
<th>Total no. of persons</th>
<th>No. of persons trained so far</th>
<th>No. of persons to be trained during current financial year</th>
<th>No. of persons trained during current financial year</th>
<th>Sources of funding for training (Lakhs)</th>
<th>Funds utilized (Lakhs)</th>
</tr>
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<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>a) DoLR</td>
<td>b) Any other (Pl. specify)</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>a) DoLR</td>
</tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>b) Any other (Pl. specify)</td>
</tr>
<tr>
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<td></td>
<td></td>
<td>13.50</td>
</tr>
<tr>
<td>DRDA/ZP cell</td>
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<td>WDTs</td>
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<td></td>
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<tr>
<td>UGs</td>
<td>215</td>
<td>30</td>
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<td>SHGs</td>
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<td>WCAs</td>
<td>26</td>
<td>26</td>
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<tr>
<td>GPs</td>
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</tr>
<tr>
<td>Community</td>
<td>416</td>
<td>250</td>
<td></td>
<td></td>
<td></td>
<td>-</td>
</tr>
<tr>
<td>Others (Pl. specify)</td>
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<td></td>
<td>-</td>
</tr>
<tr>
<td>Sl No</td>
<td>Activity</td>
<td>Executing agency</td>
<td>Estimated expenditure (Rs in lakhs.)</td>
<td>Expenditure incurred (Rs in lakhs.)</td>
<td>Outcome (may quantify, wherever possible)</td>
<td></td>
</tr>
<tr>
<td>-------</td>
<td>----------</td>
<td>------------------</td>
<td>--------------------------------------</td>
<td>-------------------------------------</td>
<td>------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Awareness Programme</td>
<td>S&amp;WC Division, Nongstoin</td>
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<td>2.70</td>
<td>2.70</td>
<td>Better Awareness and Understanding about Project Concept Better Awareness about Natural Resources Conservation</td>
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<td>Preparation of Pamphlets, Booklet &amp; Banner &amp; Posters</td>
<td>S&amp;WC Division</td>
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<td>2.70</td>
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<td>S&amp;WC Division</td>
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CHAPTER VII
EXPECTED OUTCOME

Table 7.1 Employment related outcomes:

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<tr>
<td></td>
<td></td>
<td>Wage employment</td>
<td>Self employment</td>
<td>Self employment</td>
</tr>
<tr>
<td></td>
<td></td>
<td>No. of mandays</td>
<td>No. of beneficiaries</td>
<td>No. of beneficiaries</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SC</td>
<td>ST</td>
<td>Others</td>
</tr>
<tr>
<td>1.</td>
<td>Mawduh</td>
<td>12126</td>
<td>7276</td>
<td>12126</td>
</tr>
<tr>
<td>2.</td>
<td>Mawthar</td>
<td>19559</td>
<td>11735</td>
<td>19559</td>
</tr>
<tr>
<td>3.</td>
<td>Sangriang</td>
<td>41617</td>
<td>24970</td>
<td>41617</td>
</tr>
<tr>
<td>4.</td>
<td>Mawthawphet</td>
<td>6950</td>
<td>4170</td>
<td>6950</td>
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Table 7.2 Migration Details:

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<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Names of the Districts</td>
<td>Names of Projects</td>
<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>
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<td>(a) Structures</td>
</tr>
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<td>I</td>
<td>L</td>
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<td></td>
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</tr>
</tbody>
</table>

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

Table 7.3 Economic benefits accrued to women:

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<th>3</th>
<th>4</th>
</tr>
</thead>
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<tr>
<td>Wages</td>
<td>Training</td>
<td>Livelihoods</td>
<td>Total</td>
</tr>
<tr>
<td>Woman days</td>
<td>Amount (Rs. in lakh)</td>
<td>No. of women participants</td>
<td>Amount (Rs. in lakh)</td>
</tr>
<tr>
<td>48929</td>
<td>48.929</td>
<td>5.40</td>
<td>10.80</td>
</tr>
</tbody>
</table>

* from Column no. 2, total no. of States implementing the programme, from Column no. 3 to 6, category-wise totals, may be mentioned at the end of the table for the entire country.
Table 7.4 Details of rights conferred in the CPRs of the project areas:

<table>
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<tr>
<th>1</th>
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<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Names of the Districts</td>
<td>Names of the projects</td>
<td>Names of the villages</td>
<td>Particular of CPR</td>
<td>Nature of right</td>
<td>Period of right</td>
<td>Beneficiary details (no. of families)</td>
<td>User Charges (Rs.)</td>
</tr>
<tr>
<td>West Khasi Hills District</td>
<td>WKH-IWMP-V</td>
<td>Mawduh</td>
<td>Improvement of Existing Degrading Forest, Drinking Well, Farm Pond</td>
<td>Fw, F, Wd</td>
<td>6 months</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* From column no. 2, no. of States; from column no. 3, no. of Districts; from column no. 4, no. of projects; from column no. 5, no. of villages; from column nos. 9 & 10, particular-wise totals for the entire country may be given at the end of the table.  
@ In column no. 6, the categories given in table no. M(SP) 10, column 5 may be filled as required.  
# In column no. 7, only the letter assigned to each type, as given below, needs to be typed.

- F for right to fishing [culture, harvest and sale]
- Fw for right to collect firewood for domestic purposes
- G for right to grazing for cattle and
- MFP for right to collect and sell minor forest produces
- P for right to passage across the CPR
- Rd for right to construct a road for access to individual property
- S/M for right to collect and sell sand and minerals
- T for right to collect timber for construction of house
- Wd for right to collect/ use water for drinking
- Wi for right to use water for irrigation
- O for any right other than indicated above (please specify)
Table 7.5 Water related outcomes:

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

<table>
<thead>
<tr>
<th>Names of Districts</th>
<th>Names of Projects</th>
<th>Sources</th>
<th>Pre-Project level</th>
<th>Mid-term project level</th>
<th>Post-Project level</th>
<th>Increase/decrease (Col. 8 – Col. 6)</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>West Khasi Hills District</td>
<td>WKH-IWMP-V</td>
<td>Open wells</td>
<td>1.95 m</td>
<td>1.75 m</td>
<td>1.60 m</td>
<td>0.35 m</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bore wells</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Others (specify)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

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

**Table 7.5.2 Status of Drinking water:**

<table>
<thead>
<tr>
<th>District</th>
<th>Name of the project</th>
<th>Availability of drinking water (no. of monyhs in a year)</th>
<th>Quality of drinking water</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Pre-project</td>
<td>Post-project</td>
<td>Change in availability</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>West Khasi Hills District</td>
<td>WKH-IWMP-V</td>
<td>Insufficient</td>
<td>Sufficient</td>
<td>10 – 12 months</td>
</tr>
</tbody>
</table>

* From column no. 2, total number of States implementing the programme, from column no. 3, total no. of Districts; from column no. 4, category-wise no. of projects, from column no. 5, average no. of months may be given at the end of the table for the entire country.
Table 7.5.3 Water Use efficiency:

<table>
<thead>
<tr>
<th>1 District</th>
<th>2 Name of the project</th>
<th>3 Name of major crop through water saving devices</th>
<th>through water conserving agronomic practices</th>
<th>Any other (pl specify)</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>West Khasi Hills District</td>
<td>WKH-IWMP-V</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Table 7.6: Vegetation/ crop related outcomes:

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

<table>
<thead>
<tr>
<th>Sl No.</th>
<th>Names of States</th>
<th>Names of the District</th>
<th>Name of Project</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></td>
<td></td>
<td></td>
<td>Area (ha)</td>
<td>Average yield (Qtl) /ha</td>
<td>Total production (Qtl)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Meghalaya</td>
<td>West Khasi Hills</td>
<td>WKH – IWMP V</td>
<td>Paddy</td>
<td>189</td>
<td>10.65</td>
<td>2019</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Maize</td>
<td>177</td>
<td>10</td>
<td>884</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Potato</td>
<td>104</td>
<td>53</td>
<td>2600</td>
</tr>
</tbody>
</table>

* From column no. 2, total number of States; from column no. 3, total no. of Districts; from column no. 4, total no. of projects, from column no. 5, total no. of crops; from column no. 6 to 8, the totals for the area, average yield per ha and total production, category-wise, for the entire country may be given at the end of the Table. Irri. – Irrigated  Rf – Rainfed
Table 7.6.2 Details of Rabi crop area and yield in the project areas:

<table>
<thead>
<tr>
<th>Sl No.</th>
<th>Names of States</th>
<th>Names of the Districts</th>
<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></td>
<td></td>
<td></td>
<td>Area (ha)</td>
<td>Area (ha)</td>
<td>Area (ha)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Average Yield (Qtl) per ha.</td>
<td>Average Yield per ha (Qtl)</td>
<td>Average Yield per ha (Qtl)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Total Production (Qtl)</td>
<td>Total Production (Qtl)</td>
<td>Total Production (Qtl)</td>
</tr>
<tr>
<td>1</td>
<td>Meghalaya</td>
<td>West Khasi Hills District</td>
<td>WKH-IWMP-V</td>
<td>Irri RF Irri RF Irri RF Irri RF</td>
<td>Irri RF Irri RF Irri RF Irri RF</td>
<td>Irri RF Irri RF Irri RF Irri RF</td>
<td></td>
</tr>
</tbody>
</table>

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

Irri. – Irrigated  RF – Rainfed
<table>
<thead>
<tr>
<th>Sl No.</th>
<th>Names of States</th>
<th>Names of the Districts</th>
<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></td>
<td></td>
<td></td>
<td>Area (ha)</td>
<td>Average Yield per ha (Qtl)</td>
<td>Total Production (Qtl)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Irri</td>
<td>Rf</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Meghalaya</td>
<td></td>
<td>West Khasi Hills District</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>
</tbody>
</table>

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

Irri. – Irrigated  Rf – Rainfed
### Table 7.6.4 Increase/ Decrease in area under fodder:

<table>
<thead>
<tr>
<th>District</th>
<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>Achievement (ha)</th>
</tr>
</thead>
<tbody>
<tr>
<td>West Khasi Hills District</td>
<td>WKH- IWMP-V</td>
<td>5 yrs</td>
<td>NA</td>
<td>NA</td>
<td>nil</td>
<td>nil</td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>District</th>
<th>Name of project</th>
<th>Duration of Project</th>
<th>Source/Name of report</th>
<th>Year of reference</th>
<th>Area already forest/vegetative cover</th>
<th>Achievement (ha)</th>
</tr>
</thead>
<tbody>
<tr>
<td>West Khasi Hills District</td>
<td>WKH- IWMP-V</td>
<td>5 yrs</td>
<td>LULC Map GIS Lab SLNA</td>
<td>2006 - 07</td>
<td>1729 Ha</td>
<td>158 Ha</td>
</tr>
</tbody>
</table>

* From column no. 2, total number of States implementing the programme, from column no. 3, total no. of Districts; from column no. 4, total no. of projects, from column nos. 6 & 7, total area in ha may be given at the end of the table for the entire country.
Table 7.6.6 Increase/Decrease in area under horticulture:

<table>
<thead>
<tr>
<th>District</th>
<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 horticulture</th>
<th>Area under horticulture proposed to be covered through IWMP</th>
<th>Area under horticulture actually covered through IWMP</th>
<th>Change in area under horticulture</th>
</tr>
</thead>
<tbody>
<tr>
<td>West Khasi Hills District</td>
<td>WKH-IWMP-V</td>
<td>5 yrs</td>
<td></td>
<td></td>
<td>79 Ha</td>
<td>Yet to be covered</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>District</th>
<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 fuel-wood</th>
<th>Area under fuel-wood proposed to be covered under IWMP</th>
<th>Area under fuel-wood actually covered under IWMP</th>
<th>Change in area under fuel-wood</th>
</tr>
</thead>
<tbody>
<tr>
<td>West Khasi Hills District</td>
<td>WKH-IWMP-V</td>
<td>5 yrs</td>
<td>LULC MapGIS LabSLNA</td>
<td>2006 - 07</td>
<td>1572 Ha</td>
<td>45 Ha</td>
<td>Yet to be covered</td>
<td></td>
</tr>
</tbody>
</table>

* From column no. 2, total number of States implementing the programme, from column no. 3, total no. of Districts; from column no. 4, total no. of projects, from column nos. 6 & 7, total area in ha may be given at the end of the table for the entire country.
Table 7.7 Livelihood related outcomes:

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

<table>
<thead>
<tr>
<th>Names of the Districts</th>
<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>West Khasi Hills District</td>
<td>WKH-IWMP-V</td>
<td>Milch-animals</td>
<td>100</td>
<td>NA</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Piggery</td>
<td>155</td>
<td>NA</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Poultry</td>
<td>1100</td>
<td>NA</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total for all projects</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total for all Districts</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

* From column no. 2, total number of States; from column no. 3, total no. of Districts; from column no. 4, total no. of projects, from column nos. 5 to 8, the total nos. of animals and the average yield and incomes, category-wise, for the entire country may be given at the end of the Table.
Table 7.7.2 Details of other livelihoods created for landless people:

<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><strong>Distric t</strong></td>
<td><strong>Proj ect</strong></td>
<td><strong>Name of activity</strong></td>
<td><strong>Fund required for the activity (Rs.)</strong></td>
<td><strong>Sources of funding (Rs.)</strong></td>
<td><strong>Actual Expenditure incurred on activity (Rs.)</strong></td>
<td><strong>No. of beneficiaries trained</strong></td>
<td><strong>No. of beneficiaries taking up activity</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Project Fund</strong></td>
<td><strong>Beneficiary</strong></td>
<td><strong>Others (pl. specify)</strong></td>
<td><strong>Total</strong></td>
<td><strong>SC</strong></td>
</tr>
<tr>
<td>West Khasi Hills District</td>
<td>WK</td>
<td>Tailoring</td>
<td>1.04</td>
<td>1.04</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>IW</td>
<td>Agri-Implement s.</td>
<td>0.65</td>
<td>0.65</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MP-V</td>
<td>Hollow Block Making</td>
<td>0.65</td>
<td>0.65</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*(From column no. 2, total number of States; from column no. 3, total no. of Districts; from column no. 4, total no. of projects, from column no. 5, total no. of activities; from column no. 6, total funds required for the activity, from column no. 7 to 12, category-wise totals, from column no. 13, category-wise totals, for the entire country may be given at the end of the Table.)*
Table 7.7.3 Details of other livelihoods created for landless people:

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

Table 7.7.4 Details of other livelihoods created for farmers:

<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>District</td>
<td>Project</td>
<td>Name of activity</td>
<td>Fund required for the activity (Rs.) in lakhs</td>
<td>Sources of funding (Rs.) in Lakhs</td>
<td>Actual Expenditure incurred on activity (Rs.)</td>
<td>No. of farmers trained</td>
<td>No. of farmers taking up activity</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Project Fund</td>
<td>Beneficiary</td>
<td>Others (pl. specify)</td>
<td>Total</td>
<td>SF</td>
</tr>
</tbody>
</table>

* From column no. 2, total number of States; from column no. 3, total no. of Districts; from column no. 4, total no. of projects, from column no. 5, total no. of activities; from column no. 6, total funds required for the activity, from column no. 7 to 12, category-wise totals, from column no. 13, category-wise totals, for the entire country may be given at the end of the Table.
Table 7.7.5 Details of other livelihoods created for farmers *(contd.)*

<table>
<thead>
<tr>
<th>No. of persons employed indirectly in the activity</th>
<th>Annual increase in income due to activity (Rs.)</th>
<th>Impact of livelihoods programme</th>
<th>Any other information (pl. Specify)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td></td>
<td>Migration (No. of beneficiaries)</td>
<td>Development of backward-forward linkages</td>
</tr>
<tr>
<td>Grand Total (8+9)</td>
<td></td>
<td>Pre-project</td>
<td>Post-project</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pre-project</td>
<td>Post-project</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
Table 7.8 Marketing related outcomes:

**Backward-Forward linkages *\**

<table>
<thead>
<tr>
<th>District</th>
<th>Project</th>
<th>Type of Marketing Facility</th>
<th>Pre-project (no.)</th>
<th>During the project (no.)</th>
<th>Post-project (no.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>West Khasi Hills District</td>
<td>WKH-IWMP-V</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(A) Backward linkages</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(i) Seed certification</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(ii) Seed supply system</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(iii) Fertilizer supply system</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(iv) Pesticide supply system</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(v) Credit institutions</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(vi) Water supply</td>
<td>-</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(vii) Extension services</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(viii) Nurseries</td>
<td>-</td>
<td>3</td>
<td>4 no.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(ix) Tools/machinery suppliers</td>
<td>-</td>
<td>10</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(x) Price Support system</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(xi) Labour</td>
<td>-</td>
<td>2563</td>
<td>3595</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(xii) Any other (please specify)</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(A) Forward linkages</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(i) Harvesting/threshing machinery</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(ii) Storage (including cold storage)</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(iii) Road network</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(iv) Transport facilities</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(v) Markets / Mandis</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(vi) Agro and other Industries</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(vii) Milk and other collection centres</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(viii) Labour</td>
<td>-</td>
<td>3595</td>
<td>4000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(ix) Any other (please specify)</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

* from column no. 2, total no. of States implementing the programme, from column no. 3, total no. of Districts; from column no. 4, total no. of projects; from column no. 6, 7 & 8, category-wise totals may be given at the end of the table for the entire country.
Table 7.9 Abstract of outcomes:

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>State</th>
<th>Item</th>
<th>Unit</th>
<th>Pre-project Status</th>
<th>Post-project Status</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Status of water table</td>
<td>Very poor - poor</td>
<td>Good</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ground water structures repaired/ rejuvenated</td>
<td>-</td>
<td>6 nos.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Quality of drinking water</td>
<td>Moderate potable</td>
<td>Improved</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Availability of drinking water</td>
<td>Insufficient</td>
<td>Sufficient</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Increase in irrigation potential</td>
<td>-</td>
<td>17 nos.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Change in cropping/ land use pattern</td>
<td>-</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Area under agricultural crop</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>i. Area under single crop</td>
<td>201 Ha</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>ii. Area under double crop</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>iii. Area under multiple crop</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Net increase in crop production area</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Increase in area under vegetation</td>
<td>-</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Increase in area under horticulture</td>
<td>-</td>
<td>79 Ha</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Increase in area under fuel &amp; fodder</td>
<td>-</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Increase in milk production</td>
<td>-</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>No. of SHGs</td>
<td>2 nos.</td>
<td>10 nos.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Increase in no. of livelihoods</td>
<td>12Nos</td>
<td>20 nos.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Increase in income</td>
<td>Rs. 44296/-</td>
<td>Rs. 65000/-</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Migration</td>
<td>-</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>No. of school going children</td>
<td>-</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>SHG Federations formed</td>
<td>-</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Credit linkage with banks</td>
<td>-</td>
<td>3 nos.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Resource use agreements</td>
<td>-</td>
<td>7 nos.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>WDF collection &amp; management</td>
<td>-</td>
<td>1 no.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Summary of lessons learnt</td>
<td>May be attached as a separate file</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Table 7.10 Cost effectiveness of structures/ activities*

<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>Expenditure incurred (Rs.)</th>
<th>Actual quantifiable benefit (Rs.)</th>
<th>Benefit: Cost ratio#</th>
<th>IRR</th>
</tr>
</thead>
<tbody>
<tr>
<td>West Khasi Hills District</td>
<td>WKH-IWMP-V Weiner</td>
<td>As per Treatment Plan</td>
<td>210.60 lakhs</td>
<td>6205.411 lakhs</td>
<td>3950.377 lakhs</td>
<td>-</td>
<td>1.48</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

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

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

SOCIO-ECONOMIC SURVEY DETAILS
### SOCIO – ECONOMIC DATA OF WEINIER WATER SHED IWMP V WEST KHASI HILLS

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Name of the Village</th>
<th>Population</th>
<th>Literacy</th>
<th>Occupation</th>
<th>Agriculture Area</th>
<th>Livestock</th>
<th>Annual Income</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Male</td>
<td>Female</td>
<td>Total</td>
<td>Settled (in Ha)</td>
<td>Jhum (in Ha)</td>
<td>Cow</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10</td>
</tr>
<tr>
<td>1</td>
<td>MAWDUH</td>
<td>121</td>
<td>141</td>
<td>262</td>
<td>14</td>
<td>3</td>
<td>10</td>
</tr>
<tr>
<td>2</td>
<td>MAWTHAR</td>
<td>93</td>
<td>98</td>
<td>191</td>
<td>12</td>
<td>5.50</td>
<td>17</td>
</tr>
<tr>
<td>3</td>
<td>SANGRIANG</td>
<td>306</td>
<td>384</td>
<td>690</td>
<td>29</td>
<td>17</td>
<td>65</td>
</tr>
<tr>
<td>4</td>
<td>MAWTHAWPHET</td>
<td>65</td>
<td>71</td>
<td>136</td>
<td>9</td>
<td>2.50</td>
<td>8</td>
</tr>
</tbody>
</table>
ANNEXURE III

COST ESTIMATES
ESTIMATE FOR CONSTRUCTION OF CHECK DAM AND IRRIGATION CHANNEL 
AT MAWDUH VILLAGE UNDER WEINIER IWMP 2010 – 2011

(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, 
PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08)

1/3(b) Earthwork in excavation for bridges and culvert below the lowest bed level including dewatering and bailing out water etc. complete as directed.

(c) (i) Loose Boulder above one man size.

C/Dam Foundation :

\[1 \times 12.00 \times 0.90 \times 0.20 = 2.16 \text{ m}^3\]

U/S Apron:

\[1 \times 12.00 \times 2.00 \times 0.10 = 2.40 \text{ m}^3\]

Curtain Wall:

\[1 \times 12.00 \times 2.50 \times 0.10 = 3.00 \text{ m}^3\]

= 7.56 m\(^3\)

@ Rs. 68.00/-m\(^3\) …………………………………… Rs. 3265.92

2/24 Providing stone pitching with one man size boulder not less than 25 x 25 x 30cm including filling the interstices with spoil and carriage of stone within a distance of 200m complete as directed.

C/Dam Foundation:

\[1 \times 12.00 \times 0.90 \times 0.20 = 2.16 \text{ m}^3\]

U/S Apron:

\[1 \times 12.00 \times 2.00 \times 0.10 = 2.40 \text{ m}^3\]

= 4.56 m\(^3\)

@ Rs. 432/-m\(^3\) ……………………………………… Rs. 1987.68

3/25 Providing cement concrete work proportion 1:4:8 with hard broken stone aggregate 40mm, nominal size including necessary local carriage of stone and sand etc. completed as directed.

Foundation Bed:

Dam: \[1 \times 12.00 \times 0.90 \times 0.20 = 2.16 \text{ m}^3\]

Apron: \[1 \times 12.00 \times 2.00 \times 0.10 = 2.40 \text{ m}^3\]

Curtain Wall:

\[1 \times 12.00 \times 2.50 \times 0.10 = 3.00 \text{ m}^3\]

= 7.56 m\(^3\)

@ Rs. 2022 / m\(^3\) …………………………………… Rs. 15286.32

4/26 Providing cement concrete work in proportion 1:3:6 with hard broken stone aggregates downgraded including necessary local carriage of stone and sand etc. Complete.

Dam: \[1 \times 12.00 \times 0.90 \times 0.40 = 4.32 \text{ m}^3\]

2 DEDUCTION FOR NOTCH:

\[1 \times 0.60 \times 0.45 \times 0.20 = (-) 0.05 \text{ m}^3\]

DEDUCTION FOR LEAD CHANNEL:

\[1 \times 0.60 \times 0.45 \times 0.60 = (-) 0.16 \text{ m}^3\]

= 16.26 m\(^3\)

@ Rs. 2281/-m\(^3\) …………………………………… Rs. 37089.06

Rs. 37089.06

Rs. 15286.32

Rs. 3265.92

Rs. 1987.68

Rs. 15286.32

Rs. 37089.06

Rs. 68.00/-m\(^3\)

Rs. 432/-m\(^3\)

Rs. 2022 / m\(^3\)

Rs. 2281/-m\(^3\)
5/38 Providing shuttering with dressed planks not less than 25mm thick properly joined with battens proper level and removing the same after the concrete hardens complete as directed.

<table>
<thead>
<tr>
<th>Area</th>
<th>Description</th>
<th>Quantity</th>
<th>Calculation</th>
<th>Rate (Rs/m²)</th>
<th>Amount (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dam U/S</td>
<td></td>
<td>1 x 12.00 x 1.50 = 18.00 m²</td>
<td></td>
<td>@ Rs. 281/-m²</td>
<td>Rs. 5,068</td>
</tr>
<tr>
<td>Dam D/S</td>
<td></td>
<td>1 x 12.00 x 1.55 = 18.60 m²</td>
<td></td>
<td></td>
<td>Rs. 5,256.60</td>
</tr>
</tbody>
</table>

**TOTAL:** Rs. 10,324.60

6/39 (a) Providing 12mm thick cement plaster including clearing the surface, curing carriage of sand within 200m, complete as directed.

<table>
<thead>
<tr>
<th>Area</th>
<th>Description</th>
<th>Quantity</th>
<th>Calculation</th>
<th>Rate (Rs/m²)</th>
<th>Amount (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dam</td>
<td></td>
<td>1 x 12.00 x 1.50 = 18.00 m²</td>
<td></td>
<td></td>
<td>Rs. 1,548</td>
</tr>
<tr>
<td>Apron</td>
<td></td>
<td>1 x 12.00 x 0.45 = 5.40 m²</td>
<td></td>
<td></td>
<td>Rs. 459</td>
</tr>
<tr>
<td>Dam</td>
<td></td>
<td>1 x 12.00 x 1.52 = 18.60 m²</td>
<td></td>
<td></td>
<td>Rs. 1,582.80</td>
</tr>
<tr>
<td>2 x 0.45 x 0.20 = 0.18 m²</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Rs. 15.00</td>
</tr>
<tr>
<td>1 x 0.60 x 0.45 = 0.27 m²</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Rs. 22.05</td>
</tr>
<tr>
<td>Apron</td>
<td></td>
<td>1 x 12.00 x 2.00 = 24.00 m²</td>
<td></td>
<td></td>
<td>Rs. 2,064</td>
</tr>
<tr>
<td>Apron</td>
<td></td>
<td>1 x 12.00 x 2.50 = 30.00 m²</td>
<td></td>
<td></td>
<td>Rs. 2,580</td>
</tr>
</tbody>
</table>

**TOTAL:** Rs. 8,294.70

7/11 (ii) Cutting drain including dressing etc. complete.

<table>
<thead>
<tr>
<th>Area</th>
<th>Description</th>
<th>Quantity</th>
<th>Calculation</th>
<th>Rate (Rs/m³)</th>
<th>Amount (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dam</td>
<td></td>
<td>1 x 175 Rm = 175 Rm</td>
<td></td>
<td>@ Rs. 72.00/- Rm</td>
<td>Rs. 12,600</td>
</tr>
</tbody>
</table>

**TOTAL:** Rs. 8,814.20

Rs. 88,142.00 (Rupees Eighty Eight Thousand Fourty Two) only
ESTIMATE FOR CONSTRUCTION OF CHECK DAM AND IRRIGATION CHANNEL AT MAWDUH VILLAGE UNDER WEINIER IWMP 2010 – 2011

(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

1/3(b) Earthwork in excavation for bridges and culvert below the lowest bed level including dewatering and bailing out water etc. complete as directed.

<table>
<thead>
<tr>
<th>Description</th>
<th>Volume (m³)</th>
<th>Rate (Rs/m³)</th>
<th>Cost (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>C/Dam Foundation</td>
<td>4.32</td>
<td>68.00</td>
<td>293.68</td>
</tr>
<tr>
<td>Apron</td>
<td>7.20</td>
<td>68.00</td>
<td>489.60</td>
</tr>
<tr>
<td>Total</td>
<td>11.52</td>
<td></td>
<td>783.28</td>
</tr>
</tbody>
</table>

2/24 Providing stone pitching with one man size boulder not less than 25 x 25 x 30 cm including filling the interstices with spoil and carriage of stone within a distance of 200 m complete as directed.

<table>
<thead>
<tr>
<th>Description</th>
<th>Volume (m³)</th>
<th>Rate (Rs/m³)</th>
<th>Cost (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>C/Dam Foundation Bed</td>
<td>1.08</td>
<td>432.00</td>
<td>470.56</td>
</tr>
<tr>
<td>Apron</td>
<td>4.80</td>
<td>432.00</td>
<td>2032.80</td>
</tr>
<tr>
<td>Total</td>
<td>5.88</td>
<td></td>
<td>2503.36</td>
</tr>
</tbody>
</table>

3/25 Providing cement concrete work in proportion 1:4 with hard broken stone aggregate 40 mm, nominal size including necessary local carriage of stone and sand etc complete as directed.

<table>
<thead>
<tr>
<th>Description</th>
<th>Volume (m³)</th>
<th>Rate (Rs/m³)</th>
<th>Cost (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundation Bed</td>
<td>1.08</td>
<td>2022.00</td>
<td>2112.16</td>
</tr>
<tr>
<td>Apron</td>
<td>4.80</td>
<td>2022.00</td>
<td>9694.56</td>
</tr>
<tr>
<td>Total</td>
<td>5.88</td>
<td></td>
<td>11810.72</td>
</tr>
</tbody>
</table>

4/26 Providing cement concrete work in proportion 1:3 with hard broken stone aggregates 40 mm downgraded including necessary local carriage of stone and sand etc. complete as directed.

<table>
<thead>
<tr>
<th>Description</th>
<th>Volume (m³)</th>
<th>Rate (Rs/m³)</th>
<th>Cost (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundation Bed</td>
<td>2.16</td>
<td>2281.00</td>
<td>4986.56</td>
</tr>
<tr>
<td>Dam</td>
<td>6.08</td>
<td>2281.00</td>
<td>13799.04</td>
</tr>
<tr>
<td>Deduction for Notch</td>
<td>-0.05</td>
<td></td>
<td>-115.28</td>
</tr>
<tr>
<td>Deduction for Lead Channel</td>
<td>-0.16</td>
<td></td>
<td>-365.06</td>
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<tr>
<td>Total</td>
<td>8.45</td>
<td></td>
<td>19274.45</td>
</tr>
</tbody>
</table>

5/33 Earthwork in excavation for bridges and culvert below the lowest bed level including dewatering and bailing out water etc. complete as directed.

<table>
<thead>
<tr>
<th>Description</th>
<th>Volume (m³)</th>
<th>Rate (Rs/m³)</th>
<th>Cost (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>C/Dam Foundation Bed</td>
<td>1.20</td>
<td>68.00</td>
<td>81.60</td>
</tr>
<tr>
<td>Apron</td>
<td>0.20</td>
<td>68.00</td>
<td>13.60</td>
</tr>
<tr>
<td>Total</td>
<td>1.40</td>
<td></td>
<td>95.20</td>
</tr>
</tbody>
</table>

6/36 (5) Loose Boulders above one man size. (c) Earthwork in excavation for bridges and culvert below the lowest bed level including dewatering and bailing out water etc. complete as directed.

<table>
<thead>
<tr>
<th>Description</th>
<th>Volume (m³)</th>
<th>Rate (Rs/m³)</th>
<th>Cost (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>C/Dam Foundation Bed</td>
<td>0.20</td>
<td></td>
<td>13.60</td>
</tr>
<tr>
<td>Apron</td>
<td>0.80</td>
<td></td>
<td>54.40</td>
</tr>
<tr>
<td>Total</td>
<td>1.00</td>
<td></td>
<td>68.00</td>
</tr>
</tbody>
</table>
5/38 Providing shuttering with dressed planks not less than 25mm thick properly joined with battens proper level and removing the same after the concrete hardens complete as directed.

Dam U/S: 1 x 6.00 x 1.50 = 9.00 m²

Dam D/S: 1 x 6.00 x 1.55 = 9.30 m²
Notch: 2 x 0.45 x 0.20 = 0.18 m²
L/Channel: 1 x 0.60 x 0.45 = 0.27 m²

\[ \text{Total} = 18.75 \text{ m}³ \]
\[ @ \text{Rs.} 281/- \text{m}² \rightarrow \text{Rs.} 5268.75 \]

6/39 (a) Providing 12mm thick cement plaster including clearing the surface, curing carriage of sand within 200m, complete as directed.

Dam : 1 x 6.00 x 1.50 = 9.00 m²
1 x 6.00 x 1.55 = 9.30 m²
2 x 0.45 x 0.20 = 0.18 m²
1 x 0.60 x 0.45 = 0.27 m²
1 x 6.00 x 0.45 = 2.70 m²

\[ \text{Total} = 21.45 \text{ m}² \]
\[ @ \text{Rs.} 86/- \text{m}² \rightarrow \text{Rs.} 1844.70 \]

7/11 (ii) Cutting drain including dressing etc. complete

[Handwritten notes]

6/39(a) Providing 12mm thick cement plaster inclusive

\[ \text{Rs.} 1844.70 \]

\[ \text{Rs.} 47000.00 \]

(Rupees Forty Seven Thousand) only
### Estimate for Construction of Check Dam and Irrigation Channel at MAWDUH Village Under Weinier IWMP 2010 – 2011

**Based as per Schedule of Rates for Roads, E&D under Western Circle, PWD (Roads), Meghalaya for the Year 2007 – 08**

<table>
<thead>
<tr>
<th>Work Description</th>
<th>Volume (M³)</th>
<th>Rate (Rs/m³)</th>
<th>Total Cost (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/3(b) Earthwork in excavation for bridges and culvert below the lowest bed level including dewatering and bailing out water etc. complete as directed.</td>
<td>1 x 11.00 x 0.45 x 0.20 = 7.92 m³</td>
<td>68.00/-</td>
<td>Rs. 535.04</td>
</tr>
<tr>
<td>2/24 Providing stone pitching with one man size boulder not less than 25 x 25 x 30 cm including filling the interstices with spoil and carriage of stone within a distance of 200 m complete as directed.</td>
<td>1 x 11.00 x 0.45 x 0.20 = 1.98 m³</td>
<td>432/-</td>
<td>Rs. 847.76</td>
</tr>
<tr>
<td>3/25 Providing cement concrete work proportion 1:4:8 with hard broken stone aggregate 40 mm, nominal size including necessary carriage of stone and sand etc. complete as directed.</td>
<td>1 x 11.00 x 0.45 x 0.20 = 1.98 m³</td>
<td>2022/-</td>
<td>Rs. 3989.36</td>
</tr>
<tr>
<td>4/26 Providing cement concrete work in proportion 1:3:6 with hard broken stone aggregates downgraded including necessary local carriage of stone and sand etc. Complete</td>
<td>1 x 11.00 x 0.45 x 0.20 = 1.98 m³</td>
<td>2281/-</td>
<td>Rs. 4526.62</td>
</tr>
</tbody>
</table>

**Schedule of Rates for Check Dam Foundation Bed, Apron, and Dam Foundation Bed:**

<table>
<thead>
<tr>
<th>Work Description</th>
<th>Volume (M³)</th>
<th>Rate (Rs/m³)</th>
<th>Total Cost (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>C/Dam Foundation Bed:</td>
<td>1 x 11.00 x 0.45 x 0.20 = 1.98 m³</td>
<td>68.00/-</td>
<td>Rs. 132.44</td>
</tr>
<tr>
<td>Apron:</td>
<td>2 x 11.00 x 0.45 x 0.20 = 2.14 m³</td>
<td>68.00/-</td>
<td>Rs. 143.68</td>
</tr>
<tr>
<td>Dam Foundation Bed:</td>
<td>1 x 11.00 x 0.45 x 0.20 = 1.98 m³</td>
<td>68.00/-</td>
<td>Rs. 132.44</td>
</tr>
</tbody>
</table>

**Schedule of Rates for Lead Channel:**

<table>
<thead>
<tr>
<th>Work Description</th>
<th>Volume (M³)</th>
<th>Rate (Rs/m³)</th>
<th>Total Cost (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deduction for Notch:</td>
<td>1 x 0.60 x 0.45 x 0.20 = 0.05 m³</td>
<td>68.00/-</td>
<td>Rs. 3.40</td>
</tr>
<tr>
<td>Deduction for Lead Channel:</td>
<td>1 x 0.60 x 0.45 x 0.20 = 0.05 m³</td>
<td>68.00/-</td>
<td>Rs. 3.40</td>
</tr>
</tbody>
</table>

**Total Cost:**

Rs. 2281.00 for the year 2007 – 08

---

*Based on the Schedule of Rates for Roads, E&D under Western Circle, PWD (Roads), Meghalaya for the Year 2007 – 08.*
5/38 Providing shuttering with dressed planks not less than 25mm thick properly joined with battens proper level and removing the same after the concrete hardens complete as directed.

<table>
<thead>
<tr>
<th>Description</th>
<th>Volume (m²)</th>
<th>Rate (Rs/m²)</th>
<th>Amount (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dam U/S</td>
<td>16.50</td>
<td>281</td>
<td>4,650</td>
</tr>
<tr>
<td>Dam D/S</td>
<td>17.05</td>
<td>281</td>
<td>4,781</td>
</tr>
<tr>
<td>Notch</td>
<td>0.18</td>
<td>281</td>
<td>507</td>
</tr>
<tr>
<td>L/Channel</td>
<td>0.27</td>
<td>281</td>
<td>756</td>
</tr>
<tr>
<td>Total</td>
<td>34.00</td>
<td></td>
<td>9,694</td>
</tr>
</tbody>
</table>

6/39(a) Providing 12mm thick cement plaster including clearing the surface, curing, carriage of sand within 200m, complete as directed.

<table>
<thead>
<tr>
<th>Description</th>
<th>Volume (m²)</th>
<th>Rate (Rs/m²)</th>
<th>Amount (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dam</td>
<td>16.50</td>
<td>86</td>
<td>1,404</td>
</tr>
<tr>
<td>Dam D/S</td>
<td>17.05</td>
<td>86</td>
<td>1,454</td>
</tr>
<tr>
<td>Notch</td>
<td>0.18</td>
<td>86</td>
<td>153</td>
</tr>
<tr>
<td>L/Channel</td>
<td>0.27</td>
<td>86</td>
<td>237</td>
</tr>
<tr>
<td>Total</td>
<td>38.95</td>
<td></td>
<td>3,349.70</td>
</tr>
</tbody>
</table>

7/11 (ii) Cutting drain including dressing complete.

<table>
<thead>
<tr>
<th>Description</th>
<th>Volume (m²)</th>
<th>Rate (Rs/m²)</th>
<th>Amount (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dam</td>
<td>110.00</td>
<td>72</td>
<td>7,920</td>
</tr>
<tr>
<td>Dam D/S</td>
<td>110.00</td>
<td>72</td>
<td>7,920</td>
</tr>
<tr>
<td>Notch</td>
<td>0.20</td>
<td>72</td>
<td>144</td>
</tr>
<tr>
<td>L/Channel</td>
<td>0.45</td>
<td>72</td>
<td>324</td>
</tr>
<tr>
<td>Total</td>
<td>110.65</td>
<td></td>
<td>15,924.00</td>
</tr>
</tbody>
</table>

TOTAL: Rs. 77,381.00 (Rupees Seventy Seven Thousand Three Hundred Eighty One Only)
**ESTIMATE FOR CONSTRUCTION OF CHECK DAM AT SANGRIANG VILLAGE**

UNDER WEINIER IWMP 2010 – 2011

(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08)

<table>
<thead>
<tr>
<th>Description</th>
<th>Calculation</th>
<th>Quantity</th>
<th>Rate (Rs./m³)</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Earthwork in excavation for bridges and culvert below the lowest bed level including dewatering and bailing out water etc. complete as directed.</td>
<td>$1 \times 6.00 \times (0.45+0.90) \times 1.50 \times 0.40 = 1.50 \text{ m}^3$</td>
<td>2.16</td>
<td>68.00</td>
<td>148.96</td>
</tr>
<tr>
<td>C/Dam Foundation</td>
<td>$1 \times 6.00 \times 0.90 \times 0.80 = 4.32 \text{ m}^3$</td>
<td>2/2</td>
<td>11.52</td>
<td>783.36</td>
</tr>
<tr>
<td>Apron:</td>
<td>$2 \times 6.00 \times 2.00 \times 0.30 = 7.20 \text{ m}^3$</td>
<td>2/2</td>
<td>11.52</td>
<td>783.36</td>
</tr>
<tr>
<td>Providing stone pitching with one man size boulder not less than 25 x 25 x 30 cm including filling the interstices with spoil and carriage of stone within a distance of 200m complete as directed.</td>
<td>$1 \times 6.00 \times 0.90 \times 0.20 = 1.08 \text{ m}^3$</td>
<td>2/2</td>
<td>1.08</td>
<td>570.24</td>
</tr>
<tr>
<td>C/Dam Foundation Bed:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Apron:</td>
<td>$2 \times 6.00 \times 0.90 \times 0.20 = 1.08 \text{ m}^3$</td>
<td>2/2</td>
<td>1.08</td>
<td>570.24</td>
</tr>
<tr>
<td>Dam:</td>
<td>$1 \times 6.00 \times 0.90 \times 0.20 = 1.08 \text{ m}^3$</td>
<td>2/2</td>
<td>1.08</td>
<td>570.24</td>
</tr>
<tr>
<td>Providing cement concrete work proportion 1:4:8 with hard broken stone aggregate 40mm, nominal size including necessary carriage of stone and sand etc. complete as directed.</td>
<td>$1 \times 6.00 \times 0.90 \times 0.20 = 1.08 \text{ m}^3$</td>
<td>2/2</td>
<td>1.08</td>
<td>2669.04</td>
</tr>
<tr>
<td>Foundation Bed:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dam:</td>
<td>$1 \times 6.00 \times 0.90 \times 0.20 = 1.08 \text{ m}^3$</td>
<td>2/2</td>
<td>1.08</td>
<td>2669.04</td>
</tr>
<tr>
<td>Apron:</td>
<td>$2 \times 6.00 \times 0.90 \times 0.20 = 1.08 \text{ m}^3$</td>
<td>2/2</td>
<td>1.08</td>
<td>2669.04</td>
</tr>
<tr>
<td>Providing cement concrete work in proportion 1:3:6 with hard broken stone aggregates 40mm downgraded including necessary carriage of stone and sand etc. Carriage of stone and sand etc. complete as directed.</td>
<td>$1 \times 6.00 \times 0.90 \times 0.40 = 2.16 \text{ m}^3$</td>
<td>2/2</td>
<td>2.16</td>
<td>4882.38</td>
</tr>
</tbody>
</table>

**Total: Rs. 18202.38**
5/38 Providing shuttering with dressed planks not less than 25mm thick properly joined with battens proper level and removing the same after the concrete hardens complete as directed.

Dam: 1 x 6.00 x 1.50 = 9.00 m²

1 x 6.00 x 1.55 = 9.30 m²

= 18.30 m³

@ Rs. 281/-m²………………………………… Rs.5142.30

6/39(a) Providing 12mm thick cement plaster including clearing the surface, curing carriage of sand within 200m, complete as directed.

Dam: 1 x 6.00 x 1.50 = 9.00 m²

1 x 6.00 x 1.55 = 9.30 m²

2 x 0.45 x 0.20 = 0.18 m²

1 x 0.60 x 0.45 = 0.27 m²

1 x 6.00 x 0.45 = 2.70 m²

Apron: 1 x 6.00 x 2.00 = 12.00 m²

1 x 6.00 x 2.50 = 15.00 m²

= 48.45 m²

@ Rs. 86/-m²…………………………………… Rs.4166.70

TOTAL Rs.31534.02

Say Rs.31534.00

(Rupees Thirty One Thousand Five Hundred Thirty Four) only

Rs.84166.70

@ Rs. 86/-m²

15.00 m² = 1 x 6.00 x 2.00

12.00 m² = 1 x 6.00 x 2.50

2.70 m² = 1 x 6.00 x 0.45

0.18 m² = 2 x 0.45 x 0.20

0.27 m² = 1 x 0.60 x 0.45

Dam : 1 x 6.00 x 1.50

Rs.5142.30

Rs.4166.70

Rs.84166.70

@ Rs. 86/-m²

18.00 m² = 1 x 6.00 x 3.00

9.00 m² = 1 x 6.00 x 1.50

Dam : 1 x 6.00 x 1.50

Rs.5142.30

Rs.4166.70

Rs.84166.70

@ Rs. 86/-m²
ESTIMATE FOR CONSTRUCTION OF CHECK DAM AND IRRIGATION CHANNEL AT SANGRIANG VILLAGE UNDER WEINIER IWMP 2010 – 2011

BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

1/3. Earthwork in excavation for bridges and culvert below the lowest bed level including dewatering and bailing out water etc. complete as directed.

C/Dam Foundation :
1 x 12.00 x 0.45 x 0.90
= 5.40 m³

Apron:
2 x 12.00 x 0.90 x 0.30
= 7.20 m³

= 12.60 m³

@ Rs. 68.00/-m³
= Rs. 826.80

2/24. Providing stone pitching with one man size boulder not less than 25 x 25 x 30cm including filling the interstices with spoil and carriage of stone within a distance of 200m complete as directed.

C/Dam Foundation :
1 x 12.00 x 0.90 x 0.20
= 2.16 m³

Apron:
1 x 12.00 x 0.90 x 0.30
= 3.60 m³

= 5.76 m³

@ Rs. 432/-m³
= Rs. 2519.52

3/25. Providing cement concrete work proportion 1:4:8 with hard broken stone aggregate 40mm, nominal size including necessary carriage of stone and sand completing as directed.

Foundation Bed:

Dam:
1 x 12.00 x 0.90 x 0.20
= 2.16 m³

Apron:
2 x 12.00 x 0.90 x 0.10
= 2.40 m³

= 4.56 m³

@ Rs. 2022 / m³
= Rs. 9185.76

26/26. Providing cement concrete work in proportion 1:3:6 with hard broken stone aggregates 40mm downgraded including necessary local collection of stone and sand and completing as directed.

C/Dam Foundation:
1 x 12.00 x 0.45 x 0.90
= 5.40 m³

Apron:
2 x 12.00 x 0.90 x 0.30
= 7.20 m³

= 12.60 m³

Deduction for Notch:
1 x 0.60 x 0.45 x 0.20
= 0.54 m³

Deduction for Lead Channel:
1 x 0.60 x 0.45 x 0.60
= 0.27 m³

= 16.26 m³

@ Rs. 2281/-m³
= Rs. 37089.06
5/38 Providing shuttering with dressed planks not less than 25mm thick properly joined with battens proper level and removing the same after the concrete hardens complete as directed.

**Dam U/S:**
1 x 12.00 x 1.50 = 18.00 m²

**Dam D/S:**
1 x 12.00 x 1.55 = 18.60 m²

Total: 36.60 m²

@ Rs. 281/-m² …………………………… Rs.10284.60

---

6/39 (a) Providing 12mm thick cement plaster including clearing the surface, curing carriage of sand within 200m, complete as directed.

**Dam:**
1 x 12.00 x 1.50 = 18.00 m²
1 x 12.00 x 0.45 = 5.40 m²
1 x 12.00 x 1.52 = 18.60 m²
2 x 0.45 x 0.20 = 0.18 m²
1 x 0.60 x 0.45 = 0.27 m²

**Apron:**
1 x 12.00 x 2.00 = 24.00 m²
1 x 12.00 x 2.50 = 30.00 m²

Total: 96.45 m²

@ Rs. 86/-m² …………………………… Rs.8294.70

**TOTAL:** Rs.74314.92

SAY, Rs.74315.00 (Rupees Seventy Four Thousand Three Hundred Fifteen) only
ESTIMATE FOR CONSTRUCTION OF CHECK DAM AT SANGRIANG VILLAGE UNDER WEINIER IWMP 2010 – 2011

(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

1/3(b) Earthwork in excavation for bridges and culvert below the lowest bed level including dewatering and bailing out water etc. complete as directed.

C/Dam Foundation :
1 x 10.00 x 0.90 x 0.80 = 7.20 m³

Apron:
2 x 10.00 x 2.00 x 0.30 = 12.00 m³

= 19.20 m³

@ Rs.68.00/-m³ …………………………………… Rs.1305.60

2/24 Providing stone pitching with one man size boulder not less than 25 x 25 x 30 cm including filling the interstices with spoil and carriage of stone within a distance of 200 m complete as directed.

C/Dam Foundation :
1 x 10.00 x 0.90 x 0.20 = 1.80 m³

Apron:
2 x 10.00 x 2.00 x 0.20 = 8.00 m³

= 9.80 m³

@ Rs.432/-m³ …………………………………… Rs.4233.60

3/25 Providing cement concrete work proportion 1:4:8 with hard broken stone aggregate 40 mm, nominal size including necessary carriage of stone and cement etc. complete as directed.

Foundation Bed:

Dam:
1 x 10.00 x 0.90 x 0.20 = 1.80 m³

Apron:
2 x 10.00 x 2.00 x 0.10 = 4.00 m³

= 5.80 m³

@ Rs.2022 / m³ ………………............................ Rs.11727.60

4/26 Providing cement concrete work in proportion 1:3:6 with hard broken stone aggregate downgraded including necessary local excavation of stone and cement etc. Complete as directed.

C/Dam Foundation :
1 x 10.00 x 0.90 x 0.40 = 3.60 m³

1 x 10.00 x (0.45+0.90) x 1.50 = 10.13 m³

Deduction for Notch:
1 x 0.60 x 0.45 x 0.20 = (-) 0.05 m³

Deduction for Lead Channel:
1 x 0.60 x 0.45 x 0.60 = (-) 0.16 m³

= 13.52 m³

@ Rs.2281/-m³ …………………………………… Rs.30839.12
### 5/38 Providing shuttering with dressed planks not less than 25mm thick properly joined with battens proper level and removing the same after the concrete hardens complete as directed.

<table>
<thead>
<tr>
<th>Description</th>
<th>Dimensions</th>
<th>Volume (m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dam U/S</td>
<td>1 x 10.00 x 1.50</td>
<td>15.00</td>
</tr>
<tr>
<td>Dam D/S</td>
<td>1 x 10.00 x 1.55</td>
<td>15.50</td>
</tr>
<tr>
<td>Notch</td>
<td>2 x 0.45 x 0.20</td>
<td>0.18</td>
</tr>
<tr>
<td>L/Channel</td>
<td>1 x 0.60 x 0.45</td>
<td>0.27</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>30.95 m³</strong></td>
</tr>
</tbody>
</table>

@ Rs. 281/-m²  
= **Rs. 8696.95**

### 6/39 (a) Providing 12mm thick cement plaster including clearing the surface, curing carriage of sand within 200m, complete as directed.

<table>
<thead>
<tr>
<th>Description</th>
<th>Dimensions</th>
<th>Volume (m²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dam U/S</td>
<td>1 x 10.00 x 1.50</td>
<td>15.00</td>
</tr>
<tr>
<td>Dam D/S</td>
<td>1 x 10.00 x 1.55</td>
<td>15.50</td>
</tr>
<tr>
<td>Notch</td>
<td>2 x 0.45 x 0.20</td>
<td>0.18</td>
</tr>
<tr>
<td>L/Channel</td>
<td>1 x 0.60 x 0.45</td>
<td>0.27</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>35.27 m²</strong></td>
</tr>
</tbody>
</table>

@ Rs. 86/-m²  
= **Rs. 3033.22**

**TOTAL Rs. 59836.09**

**SAV**  
**Rs. 59836.00**

(Rupees Fifty Nine Thousand Eight Hundred Thirty Six) only
**ESTIMATE FOR CONSTRUCTION OF CHECK DAM AT SANGRIANG VILLAGE**

**UNDER WEINIER IWMP 2010 – 2011**

*(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08)*

<table>
<thead>
<tr>
<th>Description</th>
<th>Volume (m$^3$)</th>
<th>Rate (Rs. per m$^3$)</th>
<th>Total Cost (Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/3(b) Earthwork in excavation for bridges and culvert below the lowest bed level including dewatering and bailing out water etc. complete as directed.</td>
<td>21.80</td>
<td>68.00</td>
<td>1482.40</td>
</tr>
<tr>
<td>(c) (i) Loose Boulder above one man size.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>C/Dam Foundation:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 x 10.00 x 0.90 x 0.90 = 9.00 m$^3$</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Apron:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 x 10.00 x 2.00 x 0.30 = 12.00 m$^3$</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dam:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 x 10.00 x 0.90 x 0.40 = 3.60 m$^3$</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 x 10.00 x (0.45+0.90) x 1.50 = 10.12 m$^3$</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deduction for Notch:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 x 0.60 x 0.45 x 0.20 = (-) 0.11 m$^3$</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deduction for Lead Channel:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 x 0.60 x 0.45 x 0.60 = (-) 0.16 m$^3$</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Volume:</strong></td>
<td>13.45</td>
<td></td>
<td><strong>Rs. 30679.14</strong></td>
</tr>
</tbody>
</table>

2/24

**Providing cement concrete work in proportion 1:3:6 with**

<table>
<thead>
<tr>
<th>Description</th>
<th>Volume (m$^3$)</th>
<th>Rate (Rs. per m$^3$)</th>
<th>Total Cost (Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(d) (i) Loose Boulder above one man size.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>C/Dam Foundation:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 x 10.00 x 0.90 x 0.30 = 9.00 m$^3$</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Apron:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 x 10.00 x 2.00 x 0.30 = 12.00 m$^3$</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Volume:</strong></td>
<td>21.80</td>
<td></td>
<td><strong>Rs. 14824.00</strong></td>
</tr>
</tbody>
</table>

3/25

**Providing cement concrete work in proportion 1:4:8 with**

<table>
<thead>
<tr>
<th>Description</th>
<th>Volume (m$^3$)</th>
<th>Rate (Rs. per m$^3$)</th>
<th>Total Cost (Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(d) (i) Loose Boulder above one man size.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Foundation Bed:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 x 10.00 x 0.90 x 0.20 = 1.80 m$^3$</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Apron:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 x 10.00 x 2.00 x 0.10 = 4.00 m$^3$</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Volume:</strong></td>
<td>2.20</td>
<td></td>
<td><strong>Rs. 4448.40</strong></td>
</tr>
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</table>

**Rs. 2022/- m$^3$**

<table>
<thead>
<tr>
<th>Description</th>
<th>Volume (m$^3$)</th>
<th>Rate (Rs. per m$^3$)</th>
<th>Total Cost (Rs.)</th>
</tr>
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<tbody>
<tr>
<td>2 x 10.00 x 2.00 x 0.10 = 2.00 m$^3$</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Apron:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 x 10.00 x 0.90 x 0.20 = 1.80 m$^3$</td>
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<tr>
<td><strong>Total Volume:</strong></td>
<td>3.80</td>
<td></td>
<td><strong>Rs. 4523.60</strong></td>
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</table>

**Rs. 2022/- m$^3$**

<table>
<thead>
<tr>
<th>Description</th>
<th>Volume (m$^3$)</th>
<th>Rate (Rs. per m$^3$)</th>
<th>Total Cost (Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 x 10.00 x 2.00 x 0.30 = 12.00 m$^3$</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Apron:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 x 10.00 x 0.90 x 0.60 = 0.54 m$^3$</td>
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<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Volume:</strong></td>
<td>2.54</td>
<td></td>
<td><strong>Rs. 2468.32</strong></td>
</tr>
</tbody>
</table>

**Rs. 2022/- m$^3$**

<table>
<thead>
<tr>
<th>Description</th>
<th>Volume (m$^3$)</th>
<th>Rate (Rs. per m$^3$)</th>
<th>Total Cost (Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 x 10.00 x 2.00 x 0.30 = 12.00 m$^3$</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Apron:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 x 10.00 x 0.90 x 0.60 = 0.54 m$^3$</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Volume:</strong></td>
<td>2.54</td>
<td></td>
<td><strong>Rs. 2468.32</strong></td>
</tr>
</tbody>
</table>

**Rs. 2022/- m$^3$**

<table>
<thead>
<tr>
<th>Description</th>
<th>Volume (m$^3$)</th>
<th>Rate (Rs. per m$^3$)</th>
<th>Total Cost (Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(c) Complete as directed.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lower bed level inclining downstream and bail out water below the level.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Earthen works in excavation for bridges and culvert below the level.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**ESTIMATE FOR CONSTRUCTION OF CHECK DAM AT SANGRIANG VILLAGE**

**B.N.W (ROADS), MECHALAVA FOR THE YEAR 2007 – 08**

( BASED AS PER SCHEDULE OF Rates FOR ROADS & E & D UNDER WESTERN CIRCLE.

UNDER WESTERN IWMP 2010 – 2011

ESTIMATE FOR CONSTRUCTION OF CHECK DAM AT SANGRIANG VILLAGE
5. Providing shuttering with dressed planks not less than 25mm thick properly joined with battens properly level and removing the same after the concrete hardens complete as directed.

\[
\begin{align*}
\text{Dam U/S:} & \quad 1 \times 10.00 \times 1.50 = 15.00 \text{ m}^2 \\
& \quad 1 \times 10.00 \times 1.55 = 15.50 \text{ m}^2 \\
& \quad = 30.50 \text{ m}^3 \\
& \quad \text{@ Rs. 281/-m}^2 \quad \text{Rs. 8570.50}
\end{align*}
\]

6. Providing 12mm thick cement plaster including clearing the surface, curing carriage of sand within 200m, complete as directed.

\[
\begin{align*}
\text{Apron:} & \quad 1 \times 10.00 \times 2.00 = 20.00 \text{ m}^2 \\
& \quad 1 \times 0.60 \times 2.77 = 1.66 \text{ m}^2 \\
& \quad 1 \times 0.45 \times 0.20 = 0.09 \text{ m}^2 \\
& \quad 1 \times 10.00 \times 0.45 = 4.50 \text{ m}^2 \\
& \quad 1 \times 0.60 \times 0.45 = 0.27 \text{ m}^2 \\
\text{Apron:} & \quad 1 \times 10.00 \times 1.55 = 15.50 \text{ m}^2 \\
& \quad 1 \times 10.00 \times 2.50 = 25.00 \text{ m}^2 \\
& \quad = 80.63 \text{ m}^2 \\
& \quad \text{@ Rs. 86/-m}^2 \quad \text{Rs. 6934.18}
\end{align*}
\]

\[\text{TOTAL Rs. 54620.53}\]

\[\text{SAY, Rs. 54621.00 (Rupees Fifty Four Thousand Six Hundred Twenty One) only}\]

---

\[\text{(Rupees Fifty Thousand Six Hundred Twenty One Only)}\]

\[\text{SAY, Rs. 56210.00}\]

\[\text{TOTAL}\]

\[\text{Rs. 8.60/m}^2 \]

\[
\begin{align*}
\text{Dam:} & \quad 1 \times 10.00 \times 2.00 = 20.00 \text{ m}^2 \\
& \quad 1 \times 10.00 \times 1.50 = 15.00 \text{ m}^2 \\
& \quad = 35.00 \text{ m}^2 \\
& \quad \text{@ Rs. 281/-m}^2 \quad \text{Rs. 9850.00}
\end{align*}
\]

\[\text{TOTAL Rs. 281/-m}^2 \]

\[
\begin{align*}
\text{Dam:} & \quad 1 \times 10.00 \times 2.00 = 20.00 \text{ m}^2 \\
& \quad 1 \times 10.00 \times 1.50 = 150.00 \text{ m}^2 \\
& \quad = 170.00 \text{ m}^2 \\
& \quad \text{@ Rs. 86/-m}^2 \quad \text{Rs. 14530.00}
\end{align*}
\]

\[\text{TOTAL Rs. 281/-m}^2 \]

\[\text{SAY, Rs. 87500.00}\]

\[\text{Providing 12mm thick cement plaster immediately after casting the same with dressing planks not less than 25mm}\]

\[\text{Providing 12mm thick cement plaster immediately after casting the same with dressing planks not less than 25mm}\]

\[\text{Providing 12mm thick cement plaster immediately after casting the same with dressing planks not less than 25mm}\]
ESTIMATE FOR CONSTRUCTION OF CHECK DAM / LEAD CHANNEL AT SANGRIANG VILLAGE UNDER WEINIER IWMP 2010 – 2011 (BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

1/3(b) Earthwork in excavation for bridges and culvert below the lowest bed level including dewatering and bailing out water etc. complete as directed.

C/Dam Foundation:

\[1 \times 8.00 \times 0.90 \times 0.20 = 1.44 \text{ m}^3\]

Apron:

\[2 \times 8.00 \times 2.00 \times 0.10 = 3.20 \text{ m}^3\]

\[= 4.64 \text{ m}^3\]

@ Rs. 68.00/-m³………………………………………………………………… Rs. 3386.88

2/24 Providing stone pitching with one man size boulder not less than 25 x 25 x 30 cm including filling the interstices with spoil and carriage of stone within a distance of 200 m complete as directed.

C/Dam Foundation Bed:

\[1 \times 8.00 \times 0.90 \times 0.20 = 1.44 \text{ m}^3\]

\[= 7.84 \text{ m}^3\]

@ Rs. 432/-m³………………………………………………………………… Rs. 3386.88

3/25 Providing cement concrete work proportion 1:4:8 with hard broken stone aggregate 40 mm, nominal size including necessary local carriage of stone and sand etc. complete as directed.

Foundation Bed:

\[1 \times 8.00 \times 0.90 \times 0.20 = 1.44 \text{ m}^3\]

\[= 2.88 \text{ m}^3\]

Dam:

\[1 \times 8.00 \times 0.90 \times 1.50 = 11.35 \text{ m}^3\]

@ Rs. 2281/-m³………………………………………………………………… Rs. 25889.35

4/26 Providing cement concrete work in proportion 1:3:6 with hard broken stone aggregate 40 mm downgraded including necessary local carriage of stone and sand etc. complete as directed.

Foundation Bed:

\[1 \times 8.00 \times 0.90 \times 0.20 = 1.44 \text{ m}^3\]

\[= 8.10 \text{ m}^3\]

\[= 15.36 \text{ m}^3\]

Deduction for Notch:

\[1 \times 0.60 \times 0.45 \times 0.20 = (-) 0.05 \text{ m}^3\]

Deduction for Lead Channel:

\[2 \times 0.60 \times 0.45 \times 0.60 = (-) 0.32 \text{ m}^3\]

\[= 11.35 \text{ m}^3\]

@ Rs. 2281/-m³………………………………………………………………… Rs. 25889.35

5/30 Estimated for construction of one man size boulder above one man size:

Loose Boulders above one man size:

Earthwork in excavation for bridges and culvert below the lower bed level including dewatering and bail out water etc. complete as directed.

(1/3)

PWD (ROADS), MECHALAYA FOR THE YEAR 2007 – 08

BASED AS PER SCHEDULE OF WORKS FOR ROADS & E&D UNDER WESTERN CIRCLE,

SANMANG VILLAGE UNDER VWPNR IWMP 2010 – 2011

ESTIMATE FOR CONSTRUCTION OF CHECK DAM/LEAD CHANNEL AT
(a) Providing shuttering with dressed planks not less than 25mm thick properly joined with battens proper level and removing the same after the concrete hardens complete as directed.

Dam U/S: 1 x 8.00 x 1.50 = 12.00 m²
Dam D/S: 1 x 8.00 x 1.55 = 12.40 m²
Notch: 2 x 0.45 x 0.20 = 0.18 m²
L/Channel: 2 x 0.60 x 0.45 = 0.54 m²

= 25.12 m³
@ Rs. 281/-m³………………………………… Rs.7058.72

(b) Providing 12mm thick cement plaster including clearing the surface, curing carriage of sand within 200m, complete as directed.

Dam: 1 x 8.00 x 1.50 = 12.00 m²
1 x 8.00 x 0.45 = 3.60 m²
1 x 6.00 x 0.45 = 2.70 m²
2 x 0.45 x 0.20 = 0.45 m²
1 x 8.00 x 1.55 = 12.00 m²
1 x 8.00 x 1.50 = 12.00 m²

= 16.62 m²
@ Rs. 86/-m²…………………………………… Rs.1429.32

(ii) Cutting drain including dressing etc. complete.

2 x 120 Rm = 240 Rm
@ Rs. 72.00/- Rm ……………………………… Rs.17280.00

TOTAL Rs.65471.00
(Rupees Sixty Five Thousand Four Hundred Seventy One) only
ESTIMATE FOR CONSTRUCTION OF CHECK DAM AND IRRIGATION CHANNEL AT UMJAMIN VILLAGE UNDER WEINIER IWMP 2010 – 2011

(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08)

1. Earthwork in excavation for bridges and culvert below the lowest bed level including dewatering and bailing out water etc. complete as directed.

(C) Dam Foundation:

\[ 1 \times 15.00 \times 0.90 \times 0.80 = 10.80 \text{ m}^3 \]

Apron:

\[ 2 \times 15.00 \times 2.00 \times 0.30 = 18.00 \text{ m}^3 \]

\[ = 28.80 \text{ m}^3 \]

@ Rs. 68.00/-m\(^3\) …………………………………… Rs. 1958.40

2. Providing stone pitching with one man size boulder not less than 25 x 25 x 30cm including filling the interstices with spoil and carriage of stone within a distance of 200m complete as directed.

(C) Dam Foundation Bed:

\[ 1 \times 15.00 \times 0.90 \times 0.20 = 2.70 \text{ m}^3 \]

Apron:

\[ 2 \times 15.00 \times 2.00 \times 0.10 = 6.00 \text{ m}^3 \]

\[ = 8.70 \text{ m}^3 \]

@ Rs. 432/-m\(^3\) ……………………………………… Rs. 3758.40

3. Providing cement concrete work proportion 1:4:8 with hard broken stone aggregate 40mm, nominal size including necessary local carriage of stone and sand etc. complete as directed.

(C) Dam Foundation Bed:

\[ 1 \times 15.00 \times 0.90 \times 0.20 = 2.70 \text{ m}^3 \]

Apron:

\[ 2 \times 15.00 \times 2.00 \times 0.10 = 6.00 \text{ m}^3 \]

\[ = 8.70 \text{ m}^3 \]

@ Rs. 2022 / m\(^3\) …………………………………… Rs. 17591.40

4. Providing cement concrete work in proportion 1:3:6 with hard broken stone aggregates 40mm downgraded including necessary local carriage of stone and sand etc. complete as directed.

(C) Dam Foundation Bed:

\[ 2 \times 15.00 \times 1.50 \times (0.45+0.90) = 15.20 \text{ m}^3 \]

\[ - \times 0.60 \times 0.45 \times 0.20 = (-) 0.05 \text{ m}^3 \]

\[ - \times 0.60 \times 0.45 \times 0.60 = (-) 0.32 \text{ m}^3 \]

\[ = 20.23 \text{ m}^3 \]

@ Rs. 2281/-m\(^3\) …………………………………… Rs. 46144.63

RS. 4914.63

RS. 17591.40

RS. 3758.40

RS. 1958.40

RS. 758.80

RS. 437.60
5/38 Providing shuttering with dressed planks not less than 25mm thick properly joined with battens proper level and removing the same after the concrete hardens complete as directed.

Dam U/S:
1 x 15.00 x 1.50 = 22.50 m²
1 x 15.00 x 1.55 = 23.25 m²
= 45.75 m³
@ Rs. 281/-m²………………………………… Rs.13698.75

6/39 (a) Providing 12mm thick cement plaster including clearing the surface, curing carriage of sand within 200m, complete as directed.

Dam: 1 x 15.00 x 1.50 = 22.50 m²
1 x 15.00 x 1.55 = 23.25 m²
4 x 0.45 x 0.20 = 0.36 m²
1 x 0.60 x 0.45 = 0.27 m²
2 x 15.00 x 0.45 = 6.75 m²
Apron: 1 x 15.00 x 2.00 = 30.00 m²
1 x 15.00 x 2.50 = 37.50 m²
= 120.63 m²
@ Rs. 86/-m²…………………………………… Rs.10374.18

7/11 (ii) Cutting drain including dressing etc. complete (f).

1 x 185 Rm = 185 Rm
@ Rs. 72.00/- Rm ……………………………… Rs.13320.00

TOTAL Rs.106846.00
(Rupees One Lakhs Six Thousand Eighty Four Six) only

6/39 (a) Providing 12mm thick cement plaster including clearing the surface, curing carriage of sand within 200m, complete as directed.

Dam: 1 x 15.00 x 1.50 = 22.50 m²
1 x 15.00 x 1.55 = 23.25 m²
2 x 0.45 x 0.20 = 0.18 m²
1 x 0.60 x 0.45 = 0.27 m²
2 x 15.00 x 0.45 = 6.75 m²
Apron: 1 x 15.00 x 2.00 = 30.00 m²
1 x 15.00 x 2.50 = 37.50 m²
= 120.63 m²
@ Rs. 86/-m²…………………………………… Rs.10374.18

6/39 (a) Providing 12mm thick cement plaster including clearing the surface, curing carriage of sand within 200m, complete as directed.

Dam: 1 x 15.00 x 1.50 = 22.50 m²
1 x 15.00 x 1.55 = 23.25 m²
2 x 0.45 x 0.20 = 0.18 m²
1 x 0.60 x 0.45 = 0.27 m²
2 x 15.00 x 0.45 = 6.75 m²
Apron: 1 x 15.00 x 2.00 = 30.00 m²
1 x 15.00 x 2.50 = 37.50 m²
= 120.63 m²
@ Rs. 86/-m²…………………………………… Rs.10374.18

TOTAL Rs.106846.00
(Rupees One Lakhs Six Thousand Eighty Four Six) only
ESTIMATE FOR CONSTRUCTION OF CHECK DAM AND IRRIGATION CHANNEL AT UMJAMIN VILLAGE UNDER WEINIER IWMP 2010 – 2011 (BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

1/3(b) Earthwork in excavation for bridges and culvert below the lowest bed level including dewatering and bailing out water etc. complete as directed.

(c) (i) Loose Boulder above one man size.

C/Dam Foundation:

1 x 6.00 x 0.90 x 0.80 = 4.32 m³
Apron:

2 x 6.00 x 2.00 x 0.30 = 7.20 m³
= 11.52 m³
@ Rs.68.00/-m³……………………………………... Rs.783.36

2/24 Providing stone pitching with one man size boulder not less than 25 x 25 x 30 cm including filling the interstices with spoil and carriage of stone within a distance of 200 m complete as directed.

C/Dam Foundation Bed:

1 x 6.00 x 0.90 x 0.20 = 1.08 m³
Apron:

2 x 6.00 x 0.90 x 0.10 = 0.24 m³
= 1.32 m³
@ Rs.432/-m³……………………………………... Rs.570.24

3/25 Providing cement concrete work proportion 1:4:8 with hard broken stone aggregate 40 mm, nominal size including necessary local carriage of stone and sand etc. Complete

Foundation Bed:

Dam:

1 x 6.00 x 0.90 x 0.40 = 2.16 m³
1 x 6.00 x (0.45+0.90) x 1.50 = 6.07 m³
= 7.98 m³
@ Rs.2022 / m³ …………………………………… Rs.18202.38

4/26 Providing cement concrete work in proportion 1:3:6 with hard broken stone aggregates downgraded including necessary local carriage of stone and sand etc. Complete

Foundation Bed:

Dam:

1 x 6.00 x 0.90 x 0.40 = 2.16 m³
1 x 6.00 x 0.90 x 0.80 = 6.48 m³
= 9.04 m³
@ Rs.2281/-m³………………………………... Rs.20474.36

All estimates are subject to the relevant government policies and regulations.
5/38 Providing shuttering with dressed planks not less than 25mm thick properly joined with battens proper level and removing the same after the concrete hardens complete as directed.

Dam: 1 x 6.00 x 1.50 = 9.00 m²
1 x 6.00 x 1.55 = 9.30 m²
= 18.30 m³
@ Rs. 281/- m³………………………………… Rs.5142.30

6/39(a) Providing 12mm thick cement plaster including clearing the surface, curing carriage of sand within 200m, complete as directed.

Dam:
1 x 6.00 x 1.50 = 9.00 m²
1 x 6.00 x 1.55 = 9.30 m²
1 x 0.60 x 0.45 = 0.27 m²
2 x 0.45 x 0.3 = 0.27 m²
1 x 0.60 x 0.45 = 0.27 m²
1 x 6.00 x 1.50 = 9.00 m²
= 21.00 m²
@ Rs. 86/- m²…………………………………… Rs.1806.00

Apron:
1 x 0.60 x 0.45 = 0.27 m²
1 x 0.60 x 0.45 = 0.27 m²
1 x 0.45 x 0.3 = 0.135 m²
= 0.68 m²
@ Rs. 86/- m²…………………………………… Rs.58.08

TOTAL Rs.31534.02
Say Rs.31534.00
(Rupees Thirty One Thousand Five Hundred Thirty Four) only

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@ Rs. 86/- m²

<table>
<thead>
<tr>
<th>Dim</th>
<th>@ Rs. 86/- m²</th>
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<tbody>
<tr>
<td>1.50 x 0.60</td>
<td>281/-</td>
</tr>
<tr>
<td>1.20 x 0.60</td>
<td>281/-</td>
</tr>
<tr>
<td>0.70 x 0.60</td>
<td>281/-</td>
</tr>
<tr>
<td>0.60 x 0.60</td>
<td>281/-</td>
</tr>
<tr>
<td>0.45 x 0.60</td>
<td>281/-</td>
</tr>
<tr>
<td>0.60 x 1.50</td>
<td>281/-</td>
</tr>
<tr>
<td>0.60 x 1.55</td>
<td>281/-</td>
</tr>
</tbody>
</table>

Dam: 1 x 6.00 x 1.50 = 9.00 m²
1 x 6.00 x 1.55 = 9.30 m²
= 18.30 m³
@ Rs. 281/- m³………………………………… Rs.5142.30

---

@ Rs. 86/- m²

<table>
<thead>
<tr>
<th>Dim</th>
<th>@ Rs. 86/- m²</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.80 x 0.60</td>
<td>86/-</td>
</tr>
<tr>
<td>0.90 x 0.60</td>
<td>86/-</td>
</tr>
<tr>
<td>0.60 x 0.60</td>
<td>86/-</td>
</tr>
<tr>
<td>0.60 x 1.50</td>
<td>86/-</td>
</tr>
</tbody>
</table>

Providing shuttering with dressed planks not less than 15cm above
ESTIMATE FOR CONSTRUCTION OF FARM POND AT SANGRIANG VILLAGE
UNDER WEINNIA IWMP 2010 – 2011
(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE,
PWD (ROADS), WESTERN VILLAGE FOR THE YEAR 2007 – 08)

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/3(b) Earthwork in excavation for bridges and culverts below the lowest bed level including dewatering and pulling out water, protecting sides of foundation by adequate shoring, scaffolding including labeling the foundation longitudinally and transversely, etc. as directed by the engineer in-charge.</td>
<td>1 x 25.00 x 25.00 x 1.50 937.50 m³</td>
<td>Rs. 68.00/m³</td>
<td>Rs. 63,750.00</td>
</tr>
</tbody>
</table>

TOTAL
Rs. 63,750.00

(Rupees Sixty Three Thousand Seven Hundred Fifty) only
ESTIMATE FOR CONSTRUCTION OF FARM POND AT SANGRIANG VILLAGE
UNDER WEINIA IWMP 2010 – 2011
(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE,
PWD (ROADS), MECHALAYA FOR THE YEAR 2007 – 08)

Rupees Thirty Eight Thousand Two Hundred Fifty (Only)

| Total | 1 x 25.00 x 15.00 x 1.50 = 562.50 m³ @ Rs. 68.00/m³ | Rs. 38250.00 |

Rupees 38250.00

1/3(b) Earthwork in excavation for bridges and culverts below the
lowest bed level including dewatering and protection of foundation
sides by adequate shoring, scaffolding, labelling the foundation
longitudinally and transversely etc. as directed by the Engineer in charge.

(c)(i) Loose Boulder above man size.
ESTIMATE FOR CONSTRUCTION OF FARM POND AT SANGRIANG VILLAGE UNDER WEINNA IWMP 2010 – 2011 (BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08)

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Earthwork for excavation of foundation trenches and protection of sides</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>for bridges and culverts below the lowest bed level including dewatering</td>
<td>1 x 20.00 x 15.00 x 1.50 = 450.00 m³</td>
<td>@ Rs. 68.00/m³</td>
<td>Rs. 30600.00</td>
</tr>
<tr>
<td>Total</td>
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<td>Rs. 39600.00</td>
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Rupees Thirty Thousand Six Hundred (only)

PWP (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

ESTIMATE FOR CONSTRUCTION OF FARM POND AT SANGRIANG VILLAGE
ESTIMATE FOR CONSTRUCTION OF FARM POND AT SANGRIANG VILLAGE
UNDER WEINNIA IWMP 2010 – 2011
(BASED AS PER SCHEDULE OF RATES FOR ROADS & E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08)

1/3(b)
Earthwork in excavation for bridges and culvert below the
decay level including dewatering and bailing out water
in order to keep the foundation trench of water and protecting
sides of foundation by adequate shoring and scaffolding
labelling the foundation longitudinally and transversely etc. as
directed by the engineer-in-charge.

(C) (i) Loose Boulder above man size.

\[ 1 \times 15.00 \times 15.00 \times 1.50 = 337.50 \text{ m}^3 \]

@ Rs. 68.00/m³

\[ \text{Rs. } 22950.00 \]

Total Rs. 22950.00

(Rupees Twenty Two Thousand Nine Hundred Fifty) only
**ESTIMATE FOR CONSTRUCTION OF FARM POND AT MAWDUH VILLAGE UNDER WEINNNIA IWMP 2010 – 2011 (BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08)**

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>(C) (i) Loose Boulder above man size. Earthwork in excavation for bridges and culverts below the lowest bed level including dewatering and protection of foundation trenches of water and protecting sides of foundation by adequate shoring, scaffolding including longitudinal and transverse labeling as directed by the engineer in-charge.</td>
<td>1 x 30.00 x 25.00 x 1.50 = 1125.00 m³</td>
<td>Rs. 68.00/m³</td>
<td>Rs. 76500.00</td>
</tr>
</tbody>
</table>

Total: Rs. 76500.00

(Rupees Sixty Three Thousand Seven Hundred Fifty) only
ESTIMATE FOR CONSTRUCTION OF FARM POND AT SANGRIANG VILLAGE
UNDER WEINIA IWMP 2010 – 2011
(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), WESTERN CIRCLE, MEGHALAYA FOR THE YEAR 2007 – 08)

(Rupees Sixty Three Thousand Seven Hundred Fifty Only)

Rs. 63750.00

Total

Rs. 63750.00

\[ \text{Earthwork in excavation for bridges and culverts below the lowest bed level including dewatering and bailing out water in order to keep the foundation trenches of water and protecting sides of foundation by adequate shoring, scaffolding including labeling the foundation longitudinally and transversely etc. as directed by the Engineer in-charge.} \]

\[ 1 \times 25.00 \times 25.00 \times 1.50 = 937.50 \text{ m}^3 \]

\[ @ \text{Rs. 68.00/m}^3 \quad \Rightarrow \text{Rs. 63750.00} \]

I/30
ESTIMATE FOR CONSTRUCTION OF FARM POND AT SANGRIANG VILLAGE
UNDER WEINNA IWMP 2010 – 2011
(BASED AS PER SCHEDULE OF RATES FOR ROADS & E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08)

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>(b) Earthwork in excavation for bridges and culverts below the lowest bed level including dewatering and protecting sides of foundation by adequate shoring, scaffolding including labeling the foundation longitudinally and transversely etc. as directed by the engineer in-charge.</td>
<td>362.50 m³</td>
<td>Rs. 68.00/m³</td>
<td>Rs. 38250.00</td>
</tr>
</tbody>
</table>

Total Rs. 38250.00
(Rupees Thirty Eight Thousand Two Hundred Fifty) only
ESTIMATE FOR CONSTRUCTION OF FARM POND AT SANGRIANG VILLAGE
UNDER WEINNIA IWMP 2010 – 2011
(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE,
PWD (ROADS), PWD (ROADS) W/E=MECHALAVA FOR THE YEAR 2007 - 08)

1/3(b)

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Rs. 30600.00</td>
<td>Total</td>
</tr>
<tr>
<td>Rs. 68.00/m³</td>
<td></td>
</tr>
<tr>
<td>1 x 20.00 x 15.00 x 1.50 = 450 m³</td>
<td></td>
</tr>
<tr>
<td>=</td>
<td>450 m³</td>
</tr>
<tr>
<td>@ Rs. 68.00/m³</td>
<td></td>
</tr>
<tr>
<td>=</td>
<td>Rs. 30600.00</td>
</tr>
</tbody>
</table>

(Rupees Thirty Thousand Six Hundred) only
ESTIMATE FOR CONSTRUCTION OF FARM POND AT SANGRIANG VILLAGE
UNDER WEINNIA IWMP 2010 – 2011
(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE,
PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08)

1/3(b) Earthwork in excavation for bridges and culverts below
the lowest bed level including dewatering and protecting
sides of foundation by adequate shoring, scaffolding
in order to keep the foundation trenches of water and
protection of lower bed level including dewatering and
blocking out water

(C) (i) Loose Boulder above man size

\[ 1 \times 15.00 \times 15.00 \times 1.50 = 337.50 \text{ m}^3 \]

@ Rs. 68.00/m³ = Rs. 22950.00

TOTAL

Rs. 22950.00

Rupees Twenty Two Thousand Nine Hundred fifty) only

I/3(b)
ESTIMATE FOR CONSTRUCTION OF FARM POND AT MAWDUH VILLAGE UNDER WEINIA IWMP 2010 – 2011 (BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08)

(C) (i) Loose Boulder above man size.

\[ 1 \times 30.00 \times 25.00 \times 1.50 = 1125.00 \text{ m}^3 \]

@ Rs. 68.00/m\^3

Total Rs. 76500.00

Rs. 68.00/m\^3

Rs. 76500.00

Total Rs. 76500.00

Rs. 76500.00

(Rupees Sixty Three Thousand Seven Hundred Fifty) only

(13/0)
ESTIMATE FOR CONSTRUCTION OF HEAD WATER DAM/CHANNEL DAM AT SANGRIANG VILLAGE UNDER WEINIER IWMP 2010 – 2011

(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08)

1/3 (b) Earthwork in excavation for bridges and culvert below the lowest bed level including dewatering and bailing out water etc. complete as directed.

\[1 \times 5.00 \times 2.00 \times 0.20 = 4.00 \, m^3\]
\[2 \times 5.00 \times 2.00 \times 1.20 = 12.00 \, m^3\]
\[= 40.00 \, m^3\]
@ Rs.103.00/-m3 ……………… Rs.1030.00

2/24 Providing stone pitching with one man size boulder not less than 25 x 25 x 30cm including filling the interstices with spoil and carriage of stone within a distance of 200m complete as directed.

\[1 \times 5.00 \times 2.00 \times 0.10 = 1.00 \, m^3\]
\[2 \times 5.00 \times 2.00 \times 0.10 = 2.00 \, m^3\]
\[= 2.60 \, m^3\]
@ Rs.432/-m3 ………………… Rs.1123.20

3/25 Providing cement concrete work proportion 1:4:8 with hard broken stone aggregate 40mm, nominal size including necessary carriage of stone and sand etc. completed as directed.

\[1 \times 5.00 \times 2.00 \times 0.10 = 1.00 \, m^3\]
\[2 \times 5.00 \times 2.00 \times 1.20 = 24.00 \, m^3\]
\[= 25.00 \, m^3\]
@ Rs.2022 / m3 ………………............................ Rs.5257.20

4/26 Providing cement concrete work in proportion 1:3:6 with less Channel/Weirs/ Notch:

\[1 \times 0.60 \times 0.90 \times 0.30 = (-) 0.20 \, m^3\]
\[1 \times 0.60 \times 0.90 \times 0.60 = (-) 0.32 \, m^3\]
\[= 12.16 \, m^3\]
@ Rs.2281/-m3 ……………………… Rs.27736.96

PWP (ROADS) MEGHALAYA FOR THE YEAR 2007-08
(BASED AS PER SCHEDULE OF RATES FOR ROADS & CHANNELS, WESTERN CIRCLE, SANJINGANING VILLAGE UNDER W Vernon Waterway 2007-08)
ESTIMATE FOR CONSTRUCTION OF HEAD WATER DAM/CHANNEL DAM AT

1/30 (d) Earthwork in excavation for bridges and culvert below the lowest bed level including dewatering and bailing out water etc. complete as directed.

\[2 \times 5.00 \times 2.00 \times 1.20 = 12.00 \, m^3\]
\[1 \times 5.00 \times 2.00 \times 0.10 = 1.00 \, m^3\]
\[= 13.00 \, m^3\]

PWP (ROADS) MEGHALAYA FOR THE YEAR 2007-08
(BASED AS PER SCHEDULE OF RATES FOR ROADS & CHANNELS, WESTERN CIRCLE, SANJINGANING VILLAGE UNDER W Vernon Waterway 2007-08)
ESTIMATE FOR CONSTRUCTION OF HEAD WATER DAM/CHANNEL DAM AT
Providing shuttering with dressed planks not less than 25mm thick properly joined with battens proper level and removing the same after the concrete hardens completely as directed.

\[
\begin{align*}
1 \times 5.00 \times 1.50 &= 7.50 \text{ m}^2 \\
1 \times 5.00 \times 1.53 &= 7.65 \text{ m}^2 \\
2 \times 0.90 \times 0.30 &= 0.54 \text{ m}^2 \\
2 \times 0.90 \times 0.60 &= 1.08 \text{ m}^2 \\
\hline &= 16.77 \text{ m}^2 \\
\end{align*}
\]

\$281/- \text{ m}^2 \text{ \Rightarrow } 4712.37 \text{ Rs.}

Providing 12mm thick cement plaster including clearing the surface, curing, carriage of sand within 200m, complete as directed.

\[
\begin{align*}
1 \times 5.00 \times 0.90 &= 4.50 \text{ m}^2 \\
2 \times 5.00 \times 2.00 &= 20.00 \text{ m}^2 \\
2 \times 0.90 \times 0.30 &= 0.54 \text{ m}^2 \\
2 \times 0.90 \times 0.60 &= 1.08 \text{ m}^2 \\
\hline &= 26.12 \text{ m}^2 \\
\end{align*}
\]

\$86/- \text{ m}^2 \text{ \Rightarrow } 2246.32 \text{ Rs.}

\text{TOTAL } \text{Rs. } 42106.05

\text{SAY, Rs. } 42106.00

(Rupees Forty Two Thousand One Hundred Six Only)

---

Providing shuttering with dressed planks not less than 25mm thick properly joined with battens proper level and removing the same after the concrete hardens completely as directed.

\[
\begin{align*}
16.77 &= \\
1.08 &= 2 \times 0.90 \times 0.60 \\
0.54 &= 2 \times 0.90 \times 0.30 \\
1.08 &= 2 \times 0.90 \times 1.53 \\
2.50 &= 2 \times 0.90 \times 1.50 \\
\hline &= 38.37 \\
\end{align*}
\]

\$281/- \text{ m}^2 \text{ \Rightarrow } 3471.77 \text{ Rs.}

Providing shuttering with dressed planks not less than 25mm thick properly joined with battens proper level and removing the same after the concrete hardens completely as directed. The same area of the concrete hardness complete as directed.

\text{TOTAL } \text{Rs. } 3471.77

\text{SAY, Rs. } 3471.77

(Rupees Three Thousand Four Hundred Seventy One Only)
**Estimate for Construction of Head Water Dam/ Channel Dam at Sangriang Village Under Weinier IWMP 2010 – 2011 (Based as per Schedule of Rates for Roads, E&D Under Western Circle, PWD (Roads), Meghalaya for the Year 2007 – 08)**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
<th>Rate (Rs.)</th>
<th>Amount (Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/11</td>
<td>Cutting drain including dressing etc. complete in soft mix with boulders above one man size</td>
<td>0.60 m x 0.60 m</td>
<td>250</td>
<td>25000.00</td>
</tr>
<tr>
<td>2/12</td>
<td>Providing stone pitching with one man size boulder not less than 25 cm etc. complete as directed.</td>
<td>0.60 m^3</td>
<td>432</td>
<td>259.20</td>
</tr>
<tr>
<td>3/13</td>
<td>Providing cement concrete work proportion 1:2:4 corresponding etc. completed as directed.</td>
<td>1.40 m^3</td>
<td>2951</td>
<td>4131.40</td>
</tr>
<tr>
<td>4/14</td>
<td>Providing shuttering with dressed planks not less than 25mm thick properly joined with battens proper level and removing the same after the concrete hardens complete as directed.</td>
<td>8.00 m^2</td>
<td>281</td>
<td>2248.00</td>
</tr>
<tr>
<td>5/15</td>
<td>Providing 12mm thick cement plaster including clearing the surface, curing carriage of sand within 200m, complete as directed.</td>
<td>12.00 m^2</td>
<td>86</td>
<td>1032.00</td>
</tr>
</tbody>
</table>

**Total** (Rupees Fifteen Thousand Five Hundred Fifty Six) **Only**

Rs. 15556.00
ESTIMATE FOR CONSTRUCTION OF HEAD WATER DAM/CHANNEL DAM AT SANGRIANG VILLAGE UNDER WEINIER IWMP 2010 – 2011 (BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

1/3(b) Earthwork in excavation for bridges and culvert below the lowest bed level including dewatering and bailing out water etc. complete as directed.

(d) Soft or laminated rock or medium shale

\[
\begin{align*}
&= 2 \times 18.00 \times 1.50 \times 1.00 = 27.00 m^3 \\
&= 2 \times 18.00 \times 2.00 \times 0.20 = 14.40 m^3 \\
&= 41.40 m^3
\end{align*}
\]

@ Rs.103.00/-m³ …………………………………… Rs.4264.20

2/24 Providing stone pitching with one man size boulder not less than 25 x 25 x 30 cm including filling the interstices with spoil and carriage of stone within a distance of 200m complete as directed.

\[
\begin{align*}
&= 1 \times 18.00 \times 1.50 \times 0.10 = 2.70 m^3 \\
&= 2 \times 18.00 \times 2.00 \times 0.10 = 7.20 m^3 \\
&= 9.90 m^3
\end{align*}
\]

@ Rs.432/-m³ ……………………………………… Rs.4276.80

3/25 Providing cement concrete work proportion 1:4:8 with hard broken stone aggregate 40mm, nominal size including necessary carriage of stone, sand etc. completed as directed.

\[
\begin{align*}
&= 1 \times 18.00 \times 1.50 \times 0.10 = 2.70 m^3 \\
&= 2 \times 18.00 \times 2.00 \times 0.10 = 7.20 m^3 \\
&= 9.90 m^3
\end{align*}
\]

@ Rs. 2022/- m³ ………………............................ Rs.20017.80

4/26 Providing cement concrete work in proportion 1:3:6 with hard broken stone aggregates 40mm downgraded including necessary carriage of stone and sand etc. completed as directed.

\[
\begin{align*}
&= 1 \times 18.00 \times 1.50 \times 0.80 = 21.60 m^3 \\
&= 1 \times 18.00 \times 1.50 \times 1.50 = 33.75 m^3 \\
&= 54.63 m^3
\end{align*}
\]

Less Channel/Weirs/Notch:

\[
\begin{align*}
&= 2 \times 0.60 \times 1.00 \times 0.30 = (-) 0.36 m^3 \\
&= 1 \times 0.60 \times 1.00 \times 0.60 = (-) 0.36 m^3 \\
&= (-) 0.72 m^3
\end{align*}
\]

@ Rs.2281/-m³ …………………………………… Rs.124611.03

4/27 Providing stone pitching with one man size boulder not less than 25 x 25 x 30 cm including filling the interstices with spoil and carriage of stone within a distance of 200m complete as directed.

\[
\begin{align*}
&= 1 \times 18.00 \times 1.50 \times 0.10 = 2.70 m^3 \\
&= 2 \times 18.00 \times 2.00 \times 0.10 = 7.20 m^3 \\
&= 9.90 m^3
\end{align*}
\]

@ Rs.432/-m³ ……………………………………… Rs.4276.80

4/28 Providing stone pitching with one man size boulder not less than 25 x 25 x 30 cm including filling the interstices with spoil and carriage of stone within a distance of 200m complete as directed.

\[
\begin{align*}
&= 2 \times 18.00 \times 2.00 \times 0.20 = 0.00 m^3 \\
&= 1 \times 18.00 \times 1.50 \times 1.00 = 27.00 m^3 \\
&= 27.00 m^3
\end{align*}
\]

(Part of embankment rock or medium shale)

\[
\begin{align*}
&= 2 \times 18.00 \times 2.00 \times 0.20 = 0.00 m^3 \\
&= 1 \times 18.00 \times 1.50 \times 1.00 = 27.00 m^3 \\
&= 27.00 m^3
\end{align*}
\]

\[
\begin{align*}
&= 4 \times 1.40 \times 1.00 \times 0.20 = 5.60 m^3 \\
&= 1 \times 1.40 \times 1.50 \times 1.00 = 2.10 m^3 \\
&= 7.70 m^3
\end{align*}
\]

Less Earthwork in excavation for bridges and culvert below the lowest bed level (d) Soft or laminated rock or medium shale

\[
\begin{align*}
&= 2 \times 18.00 \times 1.50 \times 1.00 = 54.00 m^3 \\
&= 1 \times 18.00 \times 1.50 \times 1.50 = 40.50 m^3 \\
&= 94.50 m^3
\end{align*}
\]

@ Rs.2281/-m³ …………………………………… Rs.214611.03

4/29 Providing stone pitching with one man size boulder not less than 25 x 25 x 30 cm including filling the interstices with spoil and carriage of stone within a distance of 200m complete as directed.

\[
\begin{align*}
&= 1 \times 18.00 \times 1.50 \times 0.10 = 2.70 m^3 \\
&= 2 \times 18.00 \times 2.00 \times 0.10 = 7.20 m^3 \\
&= 9.90 m^3
\end{align*}
\]

@ Rs.103.00/- m³ …………………………………… Rs.10107.00

4/30 Providing stone pitching with one man size boulder not less than 25 x 25 x 30 cm including filling the interstices with spoil and carriage of stone within a distance of 200m complete as directed.

\[
\begin{align*}
&= 2 \times 18.00 \times 2.00 \times 0.20 = 0.00 m^3 \\
&= 1 \times 18.00 \times 1.50 \times 1.00 = 27.00 m^3 \\
&= 27.00 m^3
\end{align*}
\]

@ Rs.432/-m³ ……………………………………… Rs.4276.80

4/31 Providing stone pitching with one man size boulder not less than 25 x 25 x 30 cm including filling the interstices with spoil and carriage of stone within a distance of 200m complete as directed.

\[
\begin{align*}
&= 2 \times 18.00 \times 2.00 \times 0.20 = 0.00 m^3 \\
&= 1 \times 18.00 \times 1.50 \times 1.00 = 27.00 m^3 \\
&= 27.00 m^3
\end{align*}
\]
Providing shuttering with dressed planks not less than 25mm thick properly joined with battens proper level and removing the same after the concrete hardens complete as directed.

\[
\begin{align*}
&1 \times 1.80 \times 1.50 = 27.00 \text{ m}^2 \\
&1 \times 1.80 \times 1.55 = 27.90 \text{ m}^2 \\
&2 \times 1.00 \times 0.30 = 0.60 \text{ m}^2 \\
&2 \times 1.00 \times 0.60 = 1.20 \text{ m}^2 \\
&\text{Total} = 56.70 \text{ m}^2
\end{align*}
\]
\[\text{Rs.} 281/- \text{m}^2 \implies \text{Rs.} 15932.70\]

Providing 12mm thick cement plaster including clearing the surface, curing carriage of sand within 200m, complete as directed.

\[
\begin{align*}
&1 \times 1.80 \times 1.00 = 18.00 \text{ m}^2 \\
&2 \times 1.80 \times 2.00 = 72.00 \text{ m}^2 \\
&2 \times 1.00 \times 0.30 = 0.60 \text{ m}^2 \\
&2 \times 1.00 \times 0.60 = 1.20 \text{ m}^2 \\
&\text{Total} = 91.80 \text{ m}^2
\end{align*}
\]
\[\text{Rs.} 86/- \text{m}^2 \implies \text{Rs.} 7894.80\]

\[\text{TOTAL Rs.} 176997.33 \]
\[\text{SAY, Rs.} 176997.00 \]
(Rupees One Lakhs Seventy Six Thousand Nine Hundred Ninety Seven) only

---

(6/39(a))

Providing 12mm thick cement plaster including clearing the surface, curing carriage of sand within 200m, complete as directed.

\[
\begin{align*}
&1 \times 1.80 \times 1.00 = 18.00 \text{ m}^2 \\
&2 \times 1.80 \times 2.00 = 72.00 \text{ m}^2 \\
&2 \times 1.00 \times 0.30 = 0.60 \text{ m}^2 \\
&2 \times 1.00 \times 0.60 = 1.20 \text{ m}^2 \\
&\text{Total} = 91.80 \text{ m}^2
\end{align*}
\]
\[\text{Rs.} 281/- \text{m}^2 \implies \text{Rs.} 26677.00\]

The same area the concrete hedges complete as directed.

\[
\begin{align*}
&1 \times 1.80 \times 1.00 = 18.00 \text{ m}^2 \\
&2 \times 1.80 \times 2.00 = 72.00 \text{ m}^2 \\
&2 \times 1.00 \times 0.30 = 0.60 \text{ m}^2 \\
&2 \times 1.00 \times 0.60 = 1.20 \text{ m}^2 \\
&\text{Total} = 91.80 \text{ m}^2
\end{align*}
\]
\[\text{Rs.} 86/- \text{m}^2 \implies \text{Rs.} 7894.80\]

\[\text{TOTAL Rs.} 34571.80 \]
\[\text{SAY, Rs.} 34571.80\]
(Rupees Thirty Four Thousand Five Hundred Seventy One and 80/100) only
ESTIMATE FOR CONSTRUCTION OF HEAD WATER DAM/ CHANNEL DAM AT SANGRIANG VILLAGE UNDER WEINIER IWMP 2010 – 2011

**1/3(b)**
Earthwork in excavation for bridges and culvert below the lowest bed level including dewatering and bailing out water etc. complete as directed.

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
<th>Rate (Rs. / m³)</th>
<th>Amount (Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>27.19 m³</td>
<td>103.00/-</td>
<td>2790.05</td>
</tr>
</tbody>
</table>

**2/24**
Providing stone pitching with one man size boulder not less than 25 x 25 x 30 cm including filling the interstices complete as directed.

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
<th>Rate (Rs. / m³)</th>
<th>Amount (Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>7.98 m³</td>
<td>432/-</td>
<td>3447.36</td>
</tr>
</tbody>
</table>

**3/25**
Providing cement concrete work proportion 1:4:8 with hard broken stone aggregate 40 mm, nominal size including necessary carriage of stone and sand etc. complete as directed.

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
<th>Rate (Rs. / m³)</th>
<th>Amount (Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>7.98 m³</td>
<td>2022/</td>
<td>16135.56</td>
</tr>
</tbody>
</table>

**4/26**
Providing cement concrete work in proportion 1:3:6 with channel/weirs/notch complete as directed.

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
<th>Rate (Rs. / m³)</th>
<th>Amount (Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>43.87 m³</td>
<td>2281/-</td>
<td>99067.47</td>
</tr>
</tbody>
</table>
5/38 Providing shuttering with dressed planks not less than 25mm thick properly joined with battens properly level and removing the same after the concrete hardens complete as directed.

\[
\begin{align*}
1 \times 14.50 \times 1.50 &= 21.75 \text{ m}^2 \\
1 \times 14.50 \times 1.55 &= 22.48 \text{ m}^2 \\
2 \times 1.00 \times 0.30 &= 0.60 \text{ m}^2 \\
2 \times 1.00 \times 0.60 &= 1.20 \text{ m}^2 \\
\hline
= 46.03 \text{ m}^2
\end{align*}
\]

@ Rs. 281/- m\(^2\) …………………………………… Rs.12934.43

6/39(a) Providing 12mm thick cement plaster including clearing the surface, curing, carriage of sand within 200m, complete as directed.

\[
\begin{align*}
1 \times 14.50 \times 1.00 &= 14.50 \text{ m}^2 \\
2 \times 14.50 \times 2.00 &= 58.00 \text{ m}^2 \\
2 \times 1.00 \times 0.30 &= 0.60 \text{ m}^2 \\
2 \times 1.00 \times 0.60 &= 1.20 \text{ m}^2 \\
\hline
= 74.30 \text{ m}^2
\end{align*}
\]

@ Rs. 86/- m\(^2\) ……………………………………… Rs.6389.80

TOTAL Rs.142409.67

SAY, Rs. 142500.00

(Rupees One Lakhs Forty Two Thousand Five Hundred) only

---

Rs. 12934.43

Rs. 6389.80

Rs. 86/- m\(^2\)

Rs. 281/- m\(^2\)

Rs. 281/- m\(^2\)

Rs. 86/- m\(^2\)

Rs. 281/- m\(^2\)

Rs. 86/- m\(^2\)

Rs. 281/- m\(^2\)

Rs. 86/- m\(^2\)

Rs. 281/- m\(^2\)

Rs. 86/- m\(^2\)

Rs. 281/- m\(^2\)

Rs. 86/- m\(^2\)

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Rs. 281/- m\(^2\)

Rs. 86/- m\(^2\)

Rs. 281/- m\(^2\)

Rs. 86/- m\(^2\)
ESTIMATE FOR CONSTRUCTION OF HEAD WATER DAM/ CHANNEL DAM AT SANGRIANG VILLAGE UNDER WEINIER IWMP 2010 – 2011

(BASED AS PER CHARTERED ENGINEERS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08)

1/3
Earthwork in excavation for bridges and culvert below the lowest bed level including dewatering and bailing out water etc. complete as directed.

- Soft or laminated rock or medium shale

$2 \times 13.50 \times 2.00 \times 0.20 = 10.80 \text{ m}^3$

$1 \times 13.50 \times 1.20 \times 0.10 = 1.62 \text{ m}^3$

$= 16.20 \text{ m}^3$

$= 27.00 \text{ m}^3$

@ Rs.103/-m$^3$………………………………… Rs.2781.00

2/24
Providing stone pitching with one man size boulder not less than 25 x 25 x 30cm including filling the interstices with spoil and carriage of stone within a distance of 200m complete as directed.

$1 \times 13.50 \times 1.20 \times 0.10 = 1.62 \text{ m}^3$

$2 \times 13.50 \times 2.00 \times 0.10 = 5.90 \text{ m}^3$

$= 7.52 \text{ m}^3$

@ Rs.432/-m$^3$…………………………………… Rs.3228.64

3/25
Providing cement concrete work proportion 1:4:8 with hard broken stone aggregate 40mm, nominal size including necessary carriage of stone and sand etc. completed as directed.

$1 \times 13.50 \times 1.20 \times 0.10 = 1.62 \text{ m}^3$

$2 \times 13.50 \times 2.00 \times 0.10 = 5.90 \text{ m}^3$

$= 7.52 \text{ m}^3$

@ Rs. 2022 / m$^3$ ………………............................ Rs.15194.44

Less Channel/Weirs/ Notch:

$2 \times 0.60 \times 0.90 \times 0.30 = (-) 0.70 \text{ m}^3$

$1 \times 0.60 \times 0.90 \times 0.60 = (-) 0.32 \text{ m}^3$

$= 3.32 \text{ m}^3$

@ Rs.2281/-m$^3$………………………………… Rs.75729.20

4/26
Providing cement concrete work proportion 1:3:6 with hard broken stone aggregates 40mm downgraded including necessary local carriage of stone and sand etc. Complete

$1 \times 13.50 \times 1.20 \times 0.80 = 12.96 \text{ m}^3$

$2 \times 13.50 \times 1.20 \times 0.90 \times 1.50 = 21.26 \text{ m}^3$

Less Channel/Weirs/ Notch:

$2 \times 0.60 \times 0.90 \times 0.30 = (-) 0.70 \text{ m}^3$

$1 \times 0.60 \times 0.90 \times 0.60 = (-) 0.32 \text{ m}^3$

$= 33.20 \text{ m}^3$

@ Rs.2281/-m$^3$………………………………… Rs.75729.20

2/24
Providing stone pitching with one man size boulder not less than 25 x 25 x 30cm including filling the interstices with spoil and carriage of stone within a distance of 200m complete as directed.

$1 \times 13.50 \times 1.20 \times 0.10 = 1.62 \text{ m}^3$

@ Rs.103/-m$^3$………………………………… Rs.1031.44

3/25
Providing cement concrete work proportion 1:4:8 with hard broken stone aggregate 40mm, nominal size including necessary carriage of stone and sand etc. completed as directed.

$1 \times 13.50 \times 1.20 \times 0.10 = 1.62 \text{ m}^3$

@ Rs. 2022 / m$^3$ ………………............................ Rs.3219.44

1/3
Earthwork in excavation for bridges and culvert below the lowest bed level including dewatering and bailing out water etc. complete as directed.

- Soft or laminated rock or medium shale

$2 \times 13.50 \times 2.00 \times 0.20 = 10.80 \text{ m}^3$

$1 \times 13.50 \times 1.20 \times 0.10 = 1.62 \text{ m}^3$

$= 16.20 \text{ m}^3$

$= 27.00 \text{ m}^3$

@ Rs.103/-m$^3$………………………………… Rs.2818.10
Providing shuttering with dressed planks not less than 25mm thick properly joined with battens proper level and removing the same after the concrete hardens complete as directed.

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
<th>Total Area (m²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 x 13.50 x 1.50</td>
<td>=</td>
<td>20.25</td>
</tr>
<tr>
<td>1 x 13.50 x 1.55</td>
<td>=</td>
<td>20.93</td>
</tr>
<tr>
<td>4 x 0.90 x 0.30</td>
<td>=</td>
<td>1.08</td>
</tr>
<tr>
<td>2 x 0.90 x 0.60</td>
<td>=</td>
<td>1.08</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>=</td>
<td><strong>43.34</strong></td>
</tr>
<tr>
<td>@ Rs. 281/-m²</td>
<td>=</td>
<td>Rs. <strong>12178.54</strong></td>
</tr>
</tbody>
</table>

Providing 12mm thick cement plaster including clearing the surface, curing carriage of sand within 200m, complete as directed.

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
<th>Total Area (m²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 x 13.50 x 0.90</td>
<td>=</td>
<td>12.15</td>
</tr>
<tr>
<td>2 x 13.50 x 2.00</td>
<td>=</td>
<td>54.00</td>
</tr>
<tr>
<td>4 x 0.90 x 0.30</td>
<td>=</td>
<td>1.08</td>
</tr>
<tr>
<td>2 x 0.90 x 0.60</td>
<td>=</td>
<td>1.08</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>=</td>
<td><strong>68.31</strong></td>
</tr>
<tr>
<td>@ Rs. 86/-m²</td>
<td>=</td>
<td>Rs. <strong>5874.66</strong></td>
</tr>
</tbody>
</table>

**TOTAL Rs. 113790.48**

(Rupees One Lakhs Thirteen Thousand Seven Hundred Ninety) only

---

Providing shuttering with dressed planks not less than 25mm thick properly joined with battens proper level and removing the same after the concrete hardens complete as directed.

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
<th>Total Area (m²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 x 3.3 x 4.0</td>
<td>=</td>
<td>68.00</td>
</tr>
<tr>
<td>1 x 0.90 x 0.60</td>
<td>=</td>
<td>54.00</td>
</tr>
<tr>
<td>4 x 0.90 x 0.30</td>
<td>=</td>
<td>1.12</td>
</tr>
<tr>
<td>2 x 0.90 x 0.60</td>
<td>=</td>
<td>1.12</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>=</td>
<td><strong>137.25</strong></td>
</tr>
<tr>
<td>@ Rs. 53/-m²</td>
<td>=</td>
<td>Rs. <strong>7281.25</strong></td>
</tr>
</tbody>
</table>

(5/38)
ESTIMATE FOR CONSTRUCTION OF HEAD WATER DAM/CHANNEL DAM AT SANGRIANG VILLAGE UNDER WEINIER IWRMP 2010-2011

(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007-08)

1/3 (b) Earthwork in excavation for bridges and culvert below the lowest bed level including dewatering and bailing out water etc. complete as directed.

- Soft or laminated rock or medium shale
  - \[1 \times 6.50 \times 1.00 \times 0.90 = 5.85 \text{ m}^3\]
  - \[2 \times 6.50 \times 2.00 \times 0.20 = 5.20 \text{ m}^3\]
  - Total = 11.05 m³
  - @ Rs. 103.00/-m³ = Rs. 1138.15

2/24 Providing stone pitching with one man size boulder not less than 25 x 25 x 30 cm including filling the interstices with spoil and carriage of stone within a distance of 200 m complete as directed.

- \[1 \times 6.50 \times 1.00 \times 0.10 = 0.65 \text{ m}^3\]
- \[2 \times 6.50 \times 2.00 \times 0.10 = 2.60 \text{ m}^3\]
- Total = 3.25 m³
- @ Rs. 432/-m³ = Rs. 6571.50

3/25 Providing cement concrete work in proportion 1:4:8 with hard broken stone aggregate 40 mm, nominal size including necessary carriage of stone and sand etc. complete as directed.

- \[1 \times 6.50 \times 1.00 \times 0.10 = 0.65 \text{ m}^3\]
- \[2 \times 6.50 \times 2.00 \times 0.10 = 2.60 \text{ m}^3\]
- Total = 3.25 m³
- @ Rs. 2022/-m³ = Rs. 6571.50

4/26 Providing cement concrete work in proportion 1:3:6 with hard broken stone aggregates downgraded including necessary local carriage of stone and sand etc. complete as directed.

- \[1 \times 6.50 \times 1.00 \times 0.70 = 4.55 \text{ m}^3\]
- \[1 \times 6.50 \times 1.00 + 0.80 \times 1.20 = 7.02 \text{ m}^3\]
- Total = 11.14 m³
- @ Rs. 2281/-m³ = Rs. 25410.34

Less Channel/Weirs/Notch:

- \[1 \times 0.60 \times 0.80 \times 0.30 = (-) 0.14 \text{ m}^3\]
- \[1 \times 0.60 \times 0.80 \times 0.60 = (-) 0.29 \text{ m}^3\]
- Total = 11.14 m³
- @ Rs. 2281/-m³ = Rs. 25410.34

\[\text{Total Cost} = \text{Rs. 23817.60}\]
Providing shuttering with dressed planks not less than 25mm thick properly joined with battens proper level and removing the same after the concrete hardens complete as directed.

<table>
<thead>
<tr>
<th>Description</th>
<th>Area</th>
<th>Rate (Rs/m²)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 x 6.50 x 1.20</td>
<td>= 7.80 m²</td>
<td>@ Rs. 281/-</td>
</tr>
<tr>
<td></td>
<td>1 x 6.50 x 1.25</td>
<td>= 8.13 m²</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 x 0.80 x 0.30</td>
<td>= 0.48 m²</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 x 0.80 x 0.60</td>
<td>= 0.96 m²</td>
<td></td>
</tr>
<tr>
<td></td>
<td>= 17.37 m²</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SAY, Rs. 867 m²

TOTAL

<table>
<thead>
<tr>
<th>Description</th>
<th>Area</th>
<th>Rate (Rs/m²)</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 x 6.50 x 1.20</td>
<td>= 7.80 m²</td>
<td>@ Rs. 86/-</td>
</tr>
<tr>
<td></td>
<td>2 x 6.50 x 2.00</td>
<td>= 26.00 m²</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 x 0.80 x 0.30</td>
<td>= 0.48 m²</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 x 0.80 x 0.60</td>
<td>= 0.96 m²</td>
<td></td>
</tr>
<tr>
<td></td>
<td>= 35.24 m²</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

TOTAL

Rs. 42436.00

SAY, Rs. 42436.00

(6394/4)

Rs. 4880.97

SAY, Rs. 4880.97

TOTAL

Rs. 4880.97

Note: The above calculations are based on the assumption that the shuttering is properly level and removed after the concrete has hardened. The cost is inclusive of all necessary materials and labor.

The same rules apply for the concrete head and concrete walls, which are to be properly level and removed after the concrete has hardened. The cost is inclusive of all necessary materials and labor.

Providing shuttering with dressed planks not less than 25mm thick.
ESTIMATE FOR CONSTRUCTION OF HEAD WATER DAM/CHANNEL DAM AT SANGRIANG VILLAGE UNDER WEINIER IWMP 2010 – 2011
(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08)

1/3(b)
Earthwork in excavation for bridges and culvert below the lowest bed level including dewatering and bailing out etc. complete as directed.

<table>
<thead>
<tr>
<th>Description</th>
<th>Volume (m³)</th>
<th>Rate (Rs/m³)</th>
<th>Amount (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Providing stone pitching with one man size boulder not less than 25 x 25 x 30 cm including filling the interstices with spoil and carriage of stone within a distance of 200 m complete as directed.</td>
<td>2.60</td>
<td>432</td>
<td>1123.20</td>
</tr>
</tbody>
</table>

3/25
Providing cement concrete work in proportion 1:3:6 with hard broken stone aggregates 40mm downgraded including necessary local carriage of stone and sand etc. Complete.

<table>
<thead>
<tr>
<th>Description</th>
<th>Volume (m³)</th>
<th>Rate (Rs/m³)</th>
<th>Amount (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Providing cement concrete work in proportion 1:3:6 with hard broken stone aggregates 40mm including necessary local carriage of stone and sand etc. Complete.</td>
<td>2.60</td>
<td>2022</td>
<td>5257.20</td>
</tr>
</tbody>
</table>

Less Channel/Weirs/Notch:

<table>
<thead>
<tr>
<th>Description</th>
<th>Volume (m³)</th>
<th>Rate (Rs/m³)</th>
<th>Amount (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Providing stone pitching with one man size boulder not less than 25 x 25 x 30 cm including filling the interstices with spoil and carriage of stone within a distance of 200 m complete as directed.</td>
<td>-0.14</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Providing stone pitching with one man size boulder not less than 25 x 25 x 30 cm including filling the interstices with spoil and carriage of stone within a distance of 200 m complete as directed.</td>
<td>-0.29</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

@ Rs. 11'397.47

2/24
Providing stone pitching with one man size boulder not less than 25 x 25 x 30 cm including filling the interstices with spoil and carriage of stone within a distance of 200 m complete as directed.

<table>
<thead>
<tr>
<th>Description</th>
<th>Volume (m³)</th>
<th>Rate (Rs/m³)</th>
<th>Amount (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Providing stone pitching with one man size boulder not less than 25 x 25 x 30 cm including filling the interstices with spoil and carriage of stone within a distance of 200 m complete as directed.</td>
<td>10.00</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

@ Rs. 11'397.47

3/25
Providing cement concrete work in proportion 1:3:6 with hard broken stone aggregates 40mm including necessary local carriage of stone and sand etc. Complete.

<table>
<thead>
<tr>
<th>Description</th>
<th>Volume (m³)</th>
<th>Rate (Rs/m³)</th>
<th>Amount (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Providing cement concrete work in proportion 1:3:6 with hard broken stone aggregates 40mm including necessary local carriage of stone and sand etc. Complete.</td>
<td>2.60</td>
<td>2022</td>
<td>5257.20</td>
</tr>
</tbody>
</table>

Less Channel/Weirs/Notch:

<table>
<thead>
<tr>
<th>Description</th>
<th>Volume (m³)</th>
<th>Rate (Rs/m³)</th>
<th>Amount (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Providing stone pitching with one man size boulder not less than 25 x 25 x 30 cm including filling the interstices with spoil and carriage of stone within a distance of 200 m complete as directed.</td>
<td>-0.14</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Providing stone pitching with one man size boulder not less than 25 x 25 x 30 cm including filling the interstices with spoil and carriage of stone within a distance of 200 m complete as directed.</td>
<td>-0.29</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

@ Rs.10'300.00

(d) Soil or laminated rock or medium sand complete as directed.

<table>
<thead>
<tr>
<th>Description</th>
<th>Volume (m³)</th>
<th>Rate (Rs/m³)</th>
<th>Amount (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Providing stone pitching with one man size boulder not less than 25 x 25 x 30 cm including filling the interstices with spoil and carriage of stone within a distance of 200 m complete as directed.</td>
<td>10.00</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

@ Rs.10'300.00
Providing shuttering with dressed planks not less than 25mm thick properly joined with battens proper level and removing the same after the concrete hardens complete as directed.

\[
\begin{align*}
&1 \times 5.00 \times 1.50 = 7.50 \text{ m}^2 \\
&1 \times 5.00 \times 1.53 = 7.65 \text{ m}^2 \\
&2 \times 0.80 \times 0.30 = 0.48 \text{ m}^2 \\
&2 \times 0.80 \times 0.60 = 0.96 \text{ m}^2 \\
&\text{Total} = 16.59 \text{ m}^2 \\
&@ \text{Rs. 281/-m}^2 = \text{Rs. 4661.79}
\end{align*}
\]

Providing 12mm thick cement plaster including clearing the surface, curing carriage of sand within 200m, complete as directed.

\[
\begin{align*}
&1 \times 5.00 \times 0.80 = 4.00 \text{ m}^2 \\
&2 \times 5.00 \times 2.00 = 10.00 \text{ m}^2 \\
&2 \times 0.80 \times 0.30 = 0.48 \text{ m}^2 \\
&2 \times 0.80 \times 0.60 = 0.96 \text{ m}^2 \\
&\text{Total} = 15.44 \text{ m}^2 \\
&@ \text{Rs. 86/-m}^2 = \text{Rs. 36280.50}
\end{align*}
\]

Rs. 36280.00

Providing 1.5mm thick cement plaster including the same after the concrete hardens complete as directed.

\[
\begin{align*}
&16.99 \text{ m}^2 \\
&0.96 \text{ m}^2 \\
&0.84 \text{ m}^2 \\
&0.56 \text{ m}^2 \\
&0.46 \text{ m}^2 \\
&\text{Total} = \text{Rs. 281/-m}^2 = \text{Rs. 4661.79}
\end{align*}
\]
ESTIMATE FOR CONSTRUCTION OF HEAD WATER DAM cum WASHING PLACE
AT SANGRIANG UNDER WEINIER IWMP 2010 – 2011
(As per S.O.R for Roads, Bridges and E & D Works under Western Circle PWD (Roads),
Meghalaya for the year 2007 – 2008)

1/3 b) Earthwork in excavation for bridge and culvert below the lowest bed level
Including dewatering
Including leveling the foundation longitudinally and
transversely etc. as directed.

*Dam F/Trenches: 1 x 8.00 x 1.20 x 1.00 = 9.60 m³
*Wing Wall: 2 x 5.00 x 1.20 x 1.00 = 12.00 m³
*Apron: 2 x 8.00 x 2.00 x 0.20 = 6.40 m³
*Washing Place: 2 x 2.00 x 2.00 x 0.20 = 1.60 m³
Total = 18.60 m³
@ Rs.103/m³ ……………………………………………. = Rs.1964.80

2/24 a) Providing stone pitching with one man size boulders not less than
25cm x 30cm long including filling the interstices with spoils and
Carriage of stone filling within a distance of 200m complete

*1 x 8.00 x 1.20 x 0.10 = 0.96 m³
*2 x 5.00 x 1.20 x 0.10 = 1.20 m³
*2 x 8.00 x 2.00 x 0.10 = 3.20 m³
*2 x 2.00 x 2.00 x 0.10 = 0.80 m³
Total = 6.16 m³
@ Rs.432/m³ ……………………………………………. = Rs.2661.12

3/25 Providing cement concrete work of proportion 1:6 with hard broken
stones and curing complete.

*1 x 8.00 x 1.20 x 0.10 = 0.96 m³
*2 x 5.00 x 1.20 x 0.10 = 1.20 m³
*2 x 8.00 x 2.00 x 0.10 = 3.20 m³
*2 x 2.00 x 2.00 x 0.10 = 0.80 m³
Total = 6.16 m³
@ Rs.2022/m³ …………………………………… = Rs.12455.52

4/26 Providing cement concrete work in abutment, wing walls etc in proportion
1:4:8 with hard broken
stones and curing complete.

*1 x 8.00 x 1.20 x 0.80 = 7.68 m³
*1 x 8.00 x {1.20+0.80}/2x 0.80 = 16.00 m³
Less Notch: 2 x 0.60 x 0.80 x 0.30 = (-) 0.30 m³
*2 x 5.00 x 1.20 x 0.80 = 9.60 m³
*2 x 5.00 x {0.50+1.20}/2 x 2.00 = 17.00 m³
Total = 49.98 m³
@ Rs.2281/m³……………………………………………. = Rs.114004.38

Payment for the year 2007 – 2008
As per S.O. for Roads, Bridges and E & D Works under Western Circle PWD (Roads),
Meghalaya for the year 2007 – 2008
<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
<th>Calculation</th>
<th>Unit Price</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Providing cement concrete work in proportion 1:2:4 corresponding to M150</td>
<td></td>
<td></td>
<td>@ Rs.3000/m³</td>
<td></td>
</tr>
<tr>
<td>with very hard stones/river shingle aggregates of 23mm, downgraded size</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>diaphragm and railing, etc.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 x 2.00 x 2.00 x 0.45 = 3.60 m³</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 x 0.15 x 0.15 x 0.80 = 0.09 m³</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 x 2.00 x 0.10 x 0.10 = 0.08 m³</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total = 3.77 m³</td>
<td></td>
<td></td>
<td>@ Rs.3000/m³</td>
<td>Rs.11310.00</td>
</tr>
<tr>
<td>Providing shuttering in R.C.C. bridge and culverts with dressed planks</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Not less than 25mm thick properly joined with battens including covering</td>
<td></td>
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<tr>
<td>in the contact face with polythene sheet and removing the same after the</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>concrete hardens complete as directed</td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>1 x 8.00 x 2.00 = 16.00 m²</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>1 x 8.00 x 2.03 = 16.24 m²</td>
<td></td>
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</tr>
<tr>
<td>2 x 5.00 x 2.03 = 20.30 m²</td>
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</tr>
<tr>
<td>4 x 0.80 x 0.30 = 0.96 m²</td>
<td></td>
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</tr>
<tr>
<td>2 x 2.00 x 0.45 = 1.80 m²</td>
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<td></td>
</tr>
<tr>
<td>32 x 0.80 x 0.15 = 3.84 m²</td>
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<td></td>
</tr>
<tr>
<td>12 x 2.00 x 0.10 = 2.40 m²</td>
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<td></td>
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</tr>
<tr>
<td>Less:</td>
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</tr>
<tr>
<td>48 x 0.10 x 0.10 = (-) 0.48 m²</td>
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</tr>
<tr>
<td>4 x 0.60 x 0.30 = (-) 0.72 m²</td>
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<tr>
<td>Total = 60.34 m²</td>
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<tr>
<td>@ Rs.281/m²</td>
<td></td>
<td></td>
<td></td>
<td>Rs.16955.54</td>
</tr>
<tr>
<td>Providing 12mm thick cement plastering in proportion 1:4 including</td>
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<tr>
<td>screening the sand, cleaning the surface and carriage of sand</td>
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</tr>
<tr>
<td>a) Over stone work &amp; cement concrete</td>
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<tr>
<td>1 x 0.60 x 0.80 = 0.87 m²</td>
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<td></td>
</tr>
<tr>
<td>4 x 0.80 x 0.30 = 0.96 m²</td>
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<td></td>
</tr>
<tr>
<td>2 x 2.00 x 2.00 = 8.00 m²</td>
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<td></td>
</tr>
<tr>
<td>2 x 2.00 x 0.45 = 1.80 m²</td>
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<td></td>
</tr>
<tr>
<td>32 x 0.80 x 0.15 = 3.84 m²</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20 x 2.00 x 0.10 = 4.00 m²</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Total = 19.08 m²</td>
<td></td>
<td></td>
<td>@ Rs.86/m²</td>
<td>Rs.1640.88</td>
</tr>
<tr>
<td>Total = Rs.160282.24</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL/CHANNEL AT MAWDUH UNDER WEINIER IWMP 2010 - 2011

(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

1/3 (a) Earthwork in excavation to the proper level and grade including high dressing as directed and removal of spoils up to 30m lead and all that

- Earthwork in excavation to the proper level and

- Removal of spoils up to 30m lead and all that

- Provision of deep holes at 1.2 to 1.5 meters apart staggered

- Provision regular stone masonry with hammer dressed or blunt chisel dressed stones of heavy section.

- Soft or laminated rock or medium shale.

- Retaining Wall Trenches:

  1 x 25 x 0.80 x 0.50 = 10.00 m³
  @Rs.103.00/m³ ………………………………….. Rs.1030.00

- R/Wall:

  1 x 25 x 0.80 x 0.50 = 10.00 m³
  1 x 25 x 0.80 x 0.40 = 10.00 m³

  2 x 25 = 50.00 m³
  @Rs.102.00/m³ …………………………………. Rs.5050.00

  TOTAL = Rs.25550.00

Rs. 26580.00

Rupees Twenty Six Thousand Five Hundred Eight (only)

CIRCULAR PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 - 08

BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, UNDER WEINIER IWMP 2010 - 2011

ESTIMATE FOR CONSTRUCTION OF RETAINING WALL/CHANNEL
Rs. 8280.00

= TOTAL

Rs. 8280.00

@ Rs. 46.00/m³

1 x 180 Rm = 180 Rm

(e) in medium rock of hard shale

grouting and cementing of depth upto 15 cm complete
the standard size of 60 cm x 60 cm including dressing

Resection of side drains of 70 cm x 30 cm to bring it to

1/12

Estimate for Construction of Retaining Wall and Channel at Mawdug under Weiner - 2010 - 2011

Circle PWD Roads Meghalaya for the Year 2007 - 08

Based as per Schedule of Rates for Roads and Channel under Weiner IWMP 2010 - 2011
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AND CHANNEL AT MAWDHU UNDER WEINER IWMP 2010 - 2011

(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08)

(a) Earthwork in excavation to the proper level and grade including light dressing as directed and removal of spoils up to 30m lead and all hill grade inclining higher dressings as directed and

Say = Rs. 34,187.00

TOTAL = Rs. 34,187.00

R/Wall:

R/Wall Trenches:

1 x 30 x 0.80 x 0.60 = 14.40 m³
@ Rs. 103.00/m³ ………………………………….. Rs. 1,483.20

Providing regular stone masonry with hammer

R/Wall:

R/Wall Trenches:

1 x 30 x 0.40 x 1.00 = 12 m³
@ Rs. 1022.00/m³ ………………………………….. Rs. 12,264.00

Total = Rs. 13,747.20

Say = Rs. 13,747.00

R/Wall Trenches:

1 x 30 x 0.80 x 0.60 = 14.40 m³
@ Rs. 103.00/m³ ………………………………….. Rs. 1,483.20

(d) Sort of laminated rock or medium shale.

Say = Rs. 34,187.00

TOTAL = Rs. 34,187.00

CIRCLE PWD (ROADS), MEGHALAYA FOR THE YEAR 2007-08

ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AND CHANNEL AT MAWDHU UNDER WEINER IWMP 2010 - 2011
Estimate for Construction of Retaining Wall and Channel at Mawduh under WEINER IWMP 2010 - 2011 (Based as per Schedule of Rates for Roads, E&D under Western Circle, PWD (Roads), Meghalaya for the Year 2007 – 08)

Resection of side drains of 30cm x 30cm to bring it to the standard size of 60cm x 60cm including dressing, grading and levelling of spoil upto 15m complete (e) in medium rock of hard shale

\[
\begin{align*}
\text{Rs.} & \quad \text{TOTAL} \\
\text{Rs.} & \quad \text{Rs.} 3680.00 \\
\text{1 x 80 Rm} & \quad \text{Rs.} 46.00 \text{/m}^3 \\
\text{80 Rm} & \quad \text{Rs.} 3680.00 \\
\text{TOTAL} & \quad \text{Rs.} 3680.00 \\
\end{align*}
\]

1/12

Rupees Three Thousand Six Hundred Eighty (only)

CIRCLE, PWD (ROADS), Meghalaya for the Year 2007 - 08

Estimate for Construction of Retaining Wall and Channel at Mawduh under WEINER IWMP 2010 - 2011
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AND CHANNEL AT MAWDUH UNDER WEINIER IWMP 2010 - 2011

(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08)

1/3 (a) Earthwork in excavation to the proper level and grade including light dressing as directed and removal of spoils up to 30m lead and all ill

(d) Sort of laminated rock or medium shale.

(2) Stone masonry with hammer dressed or blunt chisel dressed stones of heavy section, providing regular stone masonry with hammer dressed or blunt chisel dressed stones of heavy section.

R/Wall Trenches:

1 x 18 x 0.80 x 0.50 = 7.20 m³

@ Rs. 103.00/m³ ………………………………….. Rs. 741.60

R/Wall:

1 x 18 x 0.80 x 0.50 = 7.20 m³

1 x 18 x 0.40 + 0.80 x 1.00 = 10.80 m³

2 = 18.00 m³

@ Rs. 1022.00/m³ ………………………………….. Rs. 18396.00

TOTAL = Rs. 19137.60

Say = Rs. 19138.00

(Rupees Nineteen Thousand One Hundred Thirty Eight) only

Say

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ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AND CHANNEL AT MAWDUH UNDER WEINIER IWMP 2010 - 2011 (BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

Resection of side ditches of 30cm x 30cm to bring it to the standard size of 60cm x 60cm including dressing, grading and removning of spoil upto 15m complete in medium rock of hard shale.

\[ \text{Rs.} 4,600/\text{m}^3 \times 1 \times 180 \text{ Rm} = \text{Rs.} 8280.00 \]

\[ \text{TOTAL = Rs.} 8280.00 \]

(Rupees Eight Thousand Two Hundred Eighty) only

1/12
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AND CHANNEL AT MAWTHAR UNDER WEINIER IWMP 2010 - 2011 (BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

(a) Earthwork in excavation to the proper level and grade including high dressing as directed and removal of spoils up to 30m lead and all till.

(b) Soft or laminated rock or medium shale.

R/Wall Trenches:

\[
\begin{align*}
\text{1 x 16 x 0.80 x 0.50} & = 6.40 \text{ m}^3 \\
\text{1 x 16 x 0.40 x 0.80 x 0.12} & = 1.024 \text{ m}^3 \\
\text{1 x 16 x 0.80 x 0.30} & = 12.48 \text{ m}^3 \\
\end{align*}
\]

@Rs. 103.00/m\(^3\) …………………………………. Rs.659.20

R/Wall:

\[
\begin{align*}
\text{1 x 16 x 0.80 x 0.50} & = 6.40 \text{ m}^3 \\
\text{1 x 16 x 0.40 x 0.80 x 1.30} & = 12.48 \text{ m}^3 \\
\text{1 x 16 x 0.80 x 0.30} & = 12.48 \text{ m}^3 \\
\end{align*}
\]

@Rs. 1022.00/m\(^3\) …………………………………. Rs.19295.36

TOTAL = Rs.19954.56

Say = Rs.19955.00

(Rupees Nineteen Thousand Nine Hundred Fifty Five) only

R.S. 19955.00

0 = Say

R.S. 19955.00 = TOTAL

Rs.19295.36

2/22

R/Wall Trenches:

\[
\begin{align*}
\text{1 x 16 x 0.80 x 0.30} & = 12.48 \text{ m}^3 \\
\text{1 x 16 x 0.80 x 0.50} & = 6.40 \text{ m}^3 \\
\end{align*}
\]

@Rs. 103.00/m\(^3\) …………………………………. Rs.659.20

R/Wall:

\[
\begin{align*}
\text{1 x 16 x 0.80 x 0.50} & = 6.40 \text{ m}^3 \\
\end{align*}
\]

@Rs. 1022.00/m\(^3\) …………………………………. Rs.659.20

TOTAL = Rs.1328.00

Say = Rs.1328.00

R.S.1328.00

0 = Say

R.S.1328.00 = TOTAL

Rs.659.20

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CIRCUM PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 - 08 (BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE AT MAWTHAR UNDER WEINIER IWMP 2010 - 2011)

ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AND
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AND CHANNEL AT MAWTHAR UNDER WEINIER IWMP 2010 - 2011
(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

Resection of side drains of 30cm x 30cm to bring it to the standard size of 60cm x 60cm including dressing, grading and tamping of spoil upto 15m complete in medium tack of hard shale

total
Rs.2760.00

1 x 60 Rm

Rs.46.00/Rm

Eq Rs.2760.00

Rs.2760.00

1/12
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AND CHANNEL AT SANGRIANG UNDER WEINIER IWMP 2010 - 2011 (BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

(a) Earthwork in excavation to the proper level and grade including dressing is directed and removed of spoils up to 30m lead and all site grades including high dressing as directed and Earthwork in excavation to the proper level and grade.

R/Wall Trenches:

<table>
<thead>
<tr>
<th>Description</th>
<th>Volume (m³)</th>
<th>Rate (Rs/m³)</th>
<th>Total Cost (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>R/Wall Trenches</td>
<td>8.00</td>
<td>103.00</td>
<td>824.00</td>
</tr>
<tr>
<td>2/22 Providing regular stone masonry with hammer</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

TOTAL = Rs. 21,247.00

(Rupees Twenty One Thousand Two Hundred Forty Seven) only

(CIRCLES PWD (ROADS), MECHARAYA FOR THE YEAR 2007 – 08)

(CIRCLES PWD (ROADS), MECHARAYA FOR THE YEAR 2007 – 08)

(CIRCLES PWD (ROADS), MECHARAYA FOR THE YEAR 2007 – 08)

(CIRCLES PWD (ROADS), MECHARAYA FOR THE YEAR 2007 – 08)
Estimate for Construction of Retaining Wall and Channel at Sangriang under Weinier IWMP 2010-2011

Based as per Schedule of Rates for Roads, E&D under Western Circle, PWD (Roads), Meghalaya for the Year 2007-08

Resection of side ditches of 30cm x 30cm to bring it to the standard size of 60cm x 60cm including dressing, grading and removing of spoil upto 15m complete in medium rock of hard shale.

Rs. 46.00/m³

\[ 1 \times 160 \text{ Rm} = 160 \text{ Rm} \]

\[ \text{Rs.} \ 7360.00 \]

Total = Rs. 7360.00

Rupees Seven Thousand Three Hundred Sixty Only

1/12

CIRCLE, PWD (ROADS), MEGLHALAYA FOR THE YEAR 2007-08

EStIMATE FOR CONSTRUCTION OF RETAINING WALL AND CHANNEL AT SANGRIANG UNDER WEINIER IWMP 2010-2011
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AND
CHANNEL AT SANGRIANG UNDER WEINIER IWMP 2010-2011
(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN
CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007-08

1/3 (a) Earthwork in excavation to the proper level and
grade including light dressing as directed and
removal of spoils up to 30m lead and all lift.

(d) Soft or laminated rock or medium shale.

R/Wall Trenches:

\[
\begin{align*}
1 \times 35 \times 0.80 \times 0.80 &= 22.40 \text{ m}^3 \\
2 \times 35 \times 0.40 \times 0.80 \times 1.50 &= 31.20 \text{ m}^3 \\
\text{TOTAL} &= 53.60 \text{ m}^3 \\
\end{align*}
\]

@ Rs. 103.00/m\(^3\) ………………………………… Rs. 55082.80

2/22 Providing regular stone masonry with hammer
dressed or blunt chisel dressed stones of heavy section.
providing deep holes at 1.2 to 1.5 meters apart staggered
complete as directed.

R/Wall:

\[
\begin{align*}
1 \times 35 \times 0.80 \times 0.80 &= 22.40 \text{ m}^3 \\
1 \times 35 \times 0.40 \times 1.50 &= 31.50 \text{ m}^3 \\
\text{TOTAL} &= 53.90 \text{ m}^3 \\
\end{align*}
\]

@ Rs. 1022.00/m\(^3\) ………………………………. Rs. 57393.00

(Rupees Fifty Seven Thousand Three Hundred Ninety Three) only
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AND CHANNEL AT SANGRIANG UNDER WEINIER IWMP 2010 - 2011 (BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

1/3 (a) Earthwork in excavation to the proper level and grade including Dressing as directed and removal of spoils up to 30m lead and all trial cuts of spoils up to 5m heap and all trial cuts of spoils up to 5m heap and

(d) Soft or laminated rock or medium shale.

R/Wall Trenches:

1 x 40 x 0.80 x 0.50 = 18.00 m$^3$

2

= 61.20 m$^3$

\[ \text{R/Wall Trenches:} \]

\[ \text{Rs. 103.00/m}^3 \] ………………………………… Rs.6254.00

TOTAL = Rs.69396.00

Say = Rs.69396.00

(Rupees Sixty Nine Thousand Three Hundred and Sixty Six) only

(2/2)

R/Wall:

1 x 40 x 0.80 x 0.50 = 18.00 m$^3$

\[ \text{Rs. 1022.00/m}^3 \] ………………………………… Rs.18428.00

R/Wall Trenches:

\[ \text{Rs. 103.00/m}^3 \] ………………………………… Rs.1854.00

TOTAL = Rs.64400.00

Say = Rs.64400.00

(Rupees Sixty Four Thousand Four Hundred) only
<table>
<thead>
<tr>
<th>Item Description</th>
<th>Volume(m^3)</th>
<th>Rate (Rs./m^3)</th>
<th>Cost (Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Earthwork in excavation to the proper level and grade including light dressing up to 30 m lead and all lift.</td>
<td>18.44</td>
<td>103.00</td>
<td>1904.19</td>
</tr>
<tr>
<td>Providing regular stone masonry with hammer dressed stones of heavy section, staggered deep holes at 1.2 to 1.5 meters apart staggered pressure dressed stones of heavy section.</td>
<td>10.63</td>
<td>1022.00</td>
<td>10845.68</td>
</tr>
<tr>
<td>Removing spoils up to 30 m lead and all lift.</td>
<td>7.81</td>
<td>103.00</td>
<td>801.73</td>
</tr>
</tbody>
</table>

**TOTAL** = Rs. 19940.57

Say = Rs. 19941.00

Rupees Nineteen Thousand Nine Hundred Forty-One only
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AND CHANNEL AT SANGRIANG UNDER WEINIER IWMP 2010 - 2011 (BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

1/3 (a) Earthwork in excavation to the proper level and grade including high tension steel and all lift removal of spoils up to 30m lead and all hill and 100% of h successive drops at 1.2 to 1.5 meter apart specified. Provision regular stone masonry with hammer

R/Wall Trenches:

1 x 45 x 0.80 x 0.50 = 19.13 m³
1 x 45 x 0.40 + 0.85 x 1.30 = 36.56 m³

= 55.69 m³

@Rs.103.00/m³ …………………………………. Rs.1970.39

(d) Soft or laminated rock or medium shale.

R/Wall:

1 x 45 x 0.80 x 0.50 = 19.13 m³
1 x 45 x 0.80 x 0.50

= 19.13 m³

@Rs.1022.00/m³ …………………………………. Rs.56915.18

TOTAL = Rs.58885.57

Say = Rs.58886.00 (Rupees Fifty Eight Thousand Eight Hundred Eight Six) only
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AND CHANNEL AT SANGRIANG UNDER WEINIER IWMP 2010 - 2011

(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

Resection of side drains of 30cm x 30cm to bring it to the standard size of 60cm x 60cm including dressing, grading and removing of spoil upto 15m complete (e) in medium rock of hard shale

\[ 1 \times 60 \text{ Rm} = 60 \text{ Rm} \text{ @Rs.46.00/m}^3 \quad \text{Rs.2760.00} \]

TOTAL = Rs.2760.00 (Rupees Two Thousand Seven Hundred Sixty) only
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AND CHANNEL AT SANGRIANG UNDER WEINIER IWMP 2010 - 2011 (BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

1/3 (a) Earthwork in excavation to the proper level and grade including light dressing as directed and removal of spoils up to 30m lead and all till.

(d) Soft or laminated rock or medium shale.

R/Wall Trenches:

\[ 1 \times 20 \times 0.90 \times 0.60 = 10.80 \text{ m}^3 \]

\[ @\text{Rs.103.00/m}^3 \quad \text{Rs.112.40} \]

2/22 Providing regular stone masonry with hammer

R/Wall:

\[ 1 \times 20 \times 0.90 \times 0.60 = 10.80 \text{ m}^3 \]

\[ 1 \times 20 \times 0.40 + 0.85 \times 1.50 = 20.25 \text{ m}^3 \]

\[ 2 \times 20.25 \text{ m}^3 = 31.05 \text{ m}^3 \]

\[ @\text{Rs.1022.00/m}^3 \quad \text{Rs.31733.10} \]

TOTAL = Rs.32845.50

Say = Rs.32846.00

(Rupees Thirty Two Thousand Eight Hundred Forty Six) only

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CIRCLE PWD (ROADS), MECHALAYA FOR THE YEAR 2007 - 08
BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE AT SANGRIANG UNDER WEINIER IWMP 2010 - 2011
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AND CHANNEL AT SANGRIANG UNDER WEINIER IWMP 2010 - 2011 (BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08)
Estimate for Construction of Retaining Wall & Channel at Sangriang Under WEINER IWM 2010 - 2011

(Based as per Schedule of Rates for Roads, E&D under Western Circle, PWD (Roads), Meghalaya for the Year 2007 – 2008)

Reconstruction of side drains of 30cm x 30cm to bring it to the standard size of 60cm x 60cm including dressing, grading and remolding of spoil upto 15m complete.

Res: 46.00/m³

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Rate (Rs.)</th>
<th>Quantity</th>
<th>Amount (Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Res: 46.00/m³</td>
<td>30 Rm</td>
<td>1 x 30 Rm</td>
<td>1380.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>1380.00</strong></td>
</tr>
</tbody>
</table>

(Rupees One Thousand Three Hundred Eighty) only

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Department of Road and Highways

Director General, PWD (Roads), Meghalaya

Estimate for Construction of Retaining Wall and Channel at Sangriang under WEINER IWM 2010 - 2011

CIRCLE, PW&D, MEGLAHAYA FOR THE YEAR 2007 - 08

BASED AS PER SCHEDULE OF RATES FOR ROADS E&D UNDER WESTERN CIRCLE, PW&D, MEGLAHAYA

1/12
**ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AND CHANNEL AT SANGRIANG UNDER WEINIER IWMP 2010 - 2011**

*Based as per Schedule of Rates for Roads, E&D under Western Circle, PWD (Roads), Meghalaya for the Year 2007 – 08*

(a) Earthwork in excavation to the proper level and grade including light dressing as directed and removal of spoils up to 30m lead and all the grade involving higher depression in level and Earthwork in excavation to the proper level and grade.

(b) Soft or laminated rock or medium shale.

<table>
<thead>
<tr>
<th>R/Wall Trenches</th>
<th>Volume Calculation</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 x 35 x 0.90 x 0.50 = 15.75 m³</td>
<td>22.75 m³</td>
<td>Rs.103.00/m³</td>
<td>Rs.1622.25</td>
</tr>
<tr>
<td>1 x 35 x 0.40 + 0.90 x 1.00 = 22.75 m³</td>
<td>38.50 m³</td>
<td>Rs.1022.00/m³</td>
<td>Rs.23250.50</td>
</tr>
</tbody>
</table>

**TOTAL** = Rs.24872.75

Say = Rs.24872.75

(Rupees Twenty Four Thousand Eight Hundred Seventy Two) only
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AND CHANNEL AT SANGRIANG UNDER WEINIER IWMP 2010 - 2011
(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

1/3 (a) Earthwork in excavation to the proper level and grade including light dressing as directed and removal of spoils up to 30m lead and all till.

(d) Sort of laminated rock or medium shale.

PROVIDING REGULAR STONE MASRY WITH HAMMER DRESSED OR BLUNT CHISEL DRESSED STONES OF HEAVY SECTION.

Providing regular stone masonry with hammer dressed or blunt chisel dressed stones of heavy section.

R/Wall:

R/Wall Trenches:

1 x 60 x 1.00 x 2.00 = 120.00 m³

@Rs.500.00/m³ ...

TOTAL = Rs.6180.00

R/Walls:

Rs.1022.00/m³ ...

2/22

2 x 60 x 1.00 x 1.00 = 120.00 m³

@Rs.103.00/m³ ...

TOTAL = Rs.151851.00

Rs.158031.00

(Rupees One Lakhs Fifty Eight Thousand Thirty) only

CIRCLET, PWD (ROADS), MECHALAYA FOR THE YEAR 2007 - 08

CHANEL AT SANGRIANG UNDER WEINIER IWMP 2010 - 2011

ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AND
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AND CHANNEL AT MAWTHAWPHET UNDER WEINIER IWMP 2010 - 2011 (BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08)

1/3 (a) Earthwork in excavation to the proper level and grade including light dressing as directed and removal of spoils up to 30m lead and all till.

(d) Soft or laminated rock or medium shale.

R/Wall Trenches:

1 x 30 x 0.90 x 0.50 = 13.50 m³

@Rs.103.00/m³ ……………………………. Rs.1390.50

R/Wall:

1 x 30 x 0.90 x 0.50 = 13.50 m³

1 x 30 x 0.40 + 0.90 x 1.00 = 19.50 m³

2 = 33.00 m³

@Rs.1022.00/m³ …………………………………. Rs.33726.00

TOTAL = Rs.35116.50

Say = Rs.35117.00

Rupees Thirty Three Thousand One Hundred Seventeen Only

CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08
BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE AT MAWTHAWPHET UNDER WEINIER IWMP 2010 - 2011
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AND CHANNEL AT MAWTHAWPHET UNDER WEINIER IWMP 2010 - 2011
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AND CHANNEL AT MAWTHAWPHET UNDER WEINIER IWMP 2010 - 2011 (BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

(e) in medium rock of hard shale

Resection of side drains of 30cm x 30cm to bring it to the standard size of 60cm x 60cm including dressing,

\[ 1 \times 40 \text{ Rm} = 40 \text{ Rm} \]

\[ @\text{Rs.}46.00/\text{m}^3 \]

\[ \text{Rs.}4600 \]

\[ \text{TOTAL} = \text{Rs.}1840.00 \]

(Rupees One Thousand Eight Hundred Forty Only)

1/12
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AND
CHANNEL AT MAWTHAWPHET UNDER WEINIER IWMP 2010 - 2011

(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN
CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

1/3 (a) Earthwork in excavation to the proper level and
grade including light dressing as directed and
removal of spoils up to 30m lead and all the
grade including high dressing as directed and
Earthwork in excavation to the proper level and
grade including light dressing as directed and

2/22 Providing regular stone masonry with hammer
completing as directed
providing deep holes at 1.2 to 1.5 meters apart staggered
address of block dressed stones of heavy section.

R/Wall Trenches:

1 x 30 x 0.80 x 0.50 = 12.00 m³
1 x 30 x 0.40 + 0.80 x 1.50 = 27.00 m³

2 = 39.00 m³

@Rs.103.00/m³ …………………………………. Rs.1236.00

R/Wall:

1 x 30 x 0.80 x 0.50 = 12.00 m³

@Rs.1022.00/m³ …………………………………. Rs.39858.00

TOTAL = Rs.41094.00

(Rupees Forty One Thousand Ninety Four) only
(Rupees Three Thousand Four Hundred Fifty) only

Rs.3,450.00

TOTAL

Rs.3,450.00

\@Rs.46.00/m³

1 x 75 Rm

= 75 Rm

\( \text{in medium tuck of hard shale} \)

Excavation and removal of goth upto 15m complete.

Resection of side drains of 30cm x 30cm to bring it to

1/8

ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AND CHANNEL AT MAWTHAWPHET UNDER WEINIER IWMP 2010-2011 (BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007-08)
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AND CHANNEL AT MAWTHAWPHET UNDER WEINIER IWMP 2010 - 2011 (BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

1/3 (a) Earthwork in excavation to the proper level and grade including light dressing as directed and removal of spoils up to 30m lead and all lift.

(d) Soft or laminated rock or medium shale

R/Wall Trenches:

1 x 14 x 0.90 x 0.50 = 6.30 m³

@Rs.103.00/m³ …………………………………. Rs.648.90

R/Wall:

1 x 14 x 0.90 x 0.50 = 13.65 m³

1 x 14 x 0.90 x 0.50 = 6.30 m³

2

@Rs.1022.00/m³ …………………………………. Rs.20388.90

TOTAL = Rs.21,037.80

Say = Rs.21038.00

(Rupees Twenty one Thousand Thirty Eight) only

(22/2)

Earthwork in excavation to the proper level and grade including high stress area included and removal of spoils up to 30m lead and all lift.

(d) Soft or laminated rock or medium shale

R/Wall Trenches:

1 x 14 x 0.90 x 0.50 = 6.30 m³

@Rs.1022.00/m³ …………………………………. Rs.6546.60

CIRCLE: PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

BASAD AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, AT MAWTHAWPHET UNDER WEINIER IWMP 2010 - 2011

ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AND CHANNEL AT MAWTHAWPHET UNDER WEINIER IWMP 2010 - 2011
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AND CHANNEL AT MAWTHAWPHET UNDER WEINIER IWMP 2010 - 2011 (BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

1/3
(a) Earthwork in excavation to the proper level and grade including light dressing as directed and removal of spoils up to 30m lead and all till.

1/2
(b) Soft or laminated rock or medium shale.

R/Wall Trenches:

1 x 45 x 0.90 x 0.50 = 20.25 m³

@ Rs.103.00/m³ …………………………………. Rs.2085.75

2/22
(c) Providing regular stone masonry with hammer complete as directed according to the size and nature of the material.

R/Wall:

1 x 45 x 0.90 x 0.50 = 20.25 m³

2 x 45 x 0.45 + 0.90 x 0.50 = 15.20 m³

= 35.45 m³

@ Rs.1022.00/m³ ………………………………. Rs.36229.90

TOTAL = Rs.38315.65

Say = Rs.38316.00

(Rupees Thirty Eight Thousand Three Hundred Sixteen) only
1/3  
(a) Earthwork in excavation to the proper level and grade including light dressing as directed and removal of spoils up to 30m lead and all lift.

(d) Soft or laminated rock or medium shale.

R/ Wall Trenches:
\[
\begin{aligned}
1 \times 60 \times 0.90 \times 0.50 &= 27.00 \text{ m}^3 \\
@\text{Rs.103.00/m}^3 &\quad \text{Rs.2181.00}
\end{aligned}
\]

2/22  
Providing regular stone masonry with hammer dressed or blunt chisel dressed stones of heavy section. providing deep holes at 1.2 to 1.5 meters apart staggered complete as directed

R/ Wall:
\[
\begin{aligned}
1 \times 60 \times 0.90 \times 0.50 &= 27.00 \text{ m}^3 \\
1 \times 60 \times 0.45 + 0.90 \times 0.50 &= 20.25 \text{ m}^3 \\
\frac{2}{2} &= 47.25 \text{ m}^3 \\
@\text{Rs.1022.00/m}^3 &\quad \text{Rs.48289.50}
\end{aligned}
\]

TOTAL  =  \text{Rs.51070.50}

Say  =  \text{Rs.51041.00}

\text{(Rupees Fifty One Thousand Forty One) only}


Krupes Three Thousand Two Hundred Twenty (only)

\[ \text{TOTAL} = \text{Rs.3220.00} \]

\[ \text{(e) in medium zone of hard shale} \]

Resection of side ditches of 36cm x 36cm to bring it to

Grading and removal of spoil upto 15cm complete

the standard size of 66cm x 66cm including dressing,

1 x 70 Rm = 70 Rm

1/12
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AND CHANNEL AT MAwavTHWPHET UNDER WEINIER IWMP 2010 - 2011 (BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

1/3 (a) Earthwork in excavation to the proper level and grade including high dressing as directed and removal of spoils up to 30m lead and all lilk

Earthwork: in excavation to the proper level and

<table>
<thead>
<tr>
<th>Description</th>
<th>Volume (m³)</th>
<th>Rate (Rs)</th>
<th>Amount (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Earthwork</td>
<td>44.00</td>
<td>103.00</td>
<td>4542.00</td>
</tr>
<tr>
<td>Wall Trenches: 1 x 40 x 0.90 x 0.50</td>
<td>26.00</td>
<td>102.20</td>
<td>2659.20</td>
</tr>
<tr>
<td>Wall: R/Wall Trenches:</td>
<td>18.00</td>
<td>102.20</td>
<td>1839.60</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td><strong>46822.00</strong></td>
</tr>
</tbody>
</table>

(Rupees Forty Six Thousand Eight Hundred Twenty Two) only

CIRCULAR PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 - 08
BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CHANNEL AT MAwavTHWPHET UNDER WEINIER IWMP 2010 - 2011
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AND
RESOLUTION OF SIDE DRAINS OF 30cm x 30cm TO BRING IT TO THE STANDARD SIZE OF 60cm x 60cm INCLUDING DRESSING, GRADING AND REMOVAL OF SPOIL UP TO 15m COMPLETE.

\[ 1 \text{ x 60} \text{ Rm} = 60 \text{ Rm} \times \text{Rs.46.00/m}^3 \]

\[ \text{Rs.2760.00} \]

TOTAL = Rs.2760.00

(Rupees Two Thousand Seven Hundred Sixty) only

CIRCLE, PWD (ROADS), MEGLAYA FOR THE YEAR 2007 - 08
BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CHANNEL AT MAWTHAHPETH UNDER WEIER AND MIGHT 2010 - 2011
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AND
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AT SANGRIANG UNDER WEINIER IWMP 2010 - 2011

(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

(a) Earthwork in excavation to the proper level and grade including high dressage as directed and removal of spoils up to 30m lead and all till.

(b) Soft or laminated rock or medium shale.

(c) Providing regular stone masonry with hammer dressed stones of heavy section.

1/3 Earthwork in excavation to the proper level and removal of spoils up to 30m lead and all till.

(d) Soft or laminated rock or medium shale.

2/22 Providing regular stone masonry with hammer dressed stones of heavy section.

Say Rs. 104,031.00

TOTAL

Rs. 9,729,440

Rs. 10,403,100

Rs. 10,403,100

Rs. 9,729,440

1 x 3.5 x 1.20 x 0.20 = 33.60 m³ @ Rs. 46.00/m³

2 x 3.5 x 0.80 + 1.20 x 2.00 = 70.00 m³

2 x 3.5 x 0.80 + 2.00 x 2.00 = 95.20 m³

@ Rs. 46.00/m³

Rs. 1,545.60

Rs. 97,294.40

TOTAL = Rs. 104,031.20

Say = Rs. 104,031.00

(Rupees One Lakhs Four Thousand Thirty One) only
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AT SANGRIANG UNDER WEINIER IWMP 2010 - 2011
(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

(a) Earthwork in excavation to the proper level and grade including high and all till removal of spoils up to 30m lead and all till grade including high dressing as directed and

(b) Providing regular stone masonry with hammer dressed or blunt chisel dressed stones of heavy section.

1/3

Say Rs. 20388.00

TOTAL = Rs. 20388.00

Rs. 18784.36

1 x 10.00 x 1.50 = 15.00 m³

1 x 10.00 x 0.65 + 1.00 x 1.50 = 12.38 m³

1 x 10.00 x 0.60 = 6.00 m³

1 x 10.00 x 0.65

1 x 10.00 x 1.50

18.38 m³

@ Rs. 46.00/m³

Rs. 368.00

@ Rs. 1022.00/m³

Rs. 18784.36

Say = Rs. 20388.00

(Rupees Twenty Thousand Three Hundred Eighty Eight) only
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AT SANGRIANG UNDER WEINIER IWMP 2010-2011 (BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007-08)

1/3 (a) Earthwork in excavation to the proper level and grade including high density soil and all hill

1 x 66.00 x 1.20 x 0.20 = 63.36 m³
@ Rs. 46.00/m³ ……………………………………. Rs. 2914.56

2/21 (a) Providing regular stone Masonry wall with hammer dressed or blunt dressed stones of heavy section etc complete

1 x 66.00 x 1.20 x 0.20 = 15.84 m³
@ Rs. 618.00/m³ …………………………………. Rs. 9789.12

3/22 Providing regular stone masonry with hammer dressed or blunt dressed stones of heavy section etc complete

1 x 66.00 x 1.20 x 0.60 = 47.52 m³
1 x 66.00 x 0.70 + 1.20 x 1.20 = 75.24 m³
= 122.76 m³
@ Rs. 1022.00/m³ …………………………………. Rs. 125460.72

TOTAL = Rs. 138164.40
Say = Rs. 138164.00
(Rupees One Lakhs Thirty Eight Thousand One Hundred Sixty Four) only
<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/1 Earthwork in excavation to the proper level and grade including height</td>
<td>22.68 m³</td>
<td>Rs. 46.00/m³</td>
<td>Rs. 105,488.00</td>
</tr>
<tr>
<td>2/1 Regular stone Masonry wall with hammer dressed or blunt dressed stones</td>
<td>0.70 m³</td>
<td>Rs. 618.00/m³</td>
<td>Rs. 432.60</td>
</tr>
<tr>
<td>3/1 Providing regular stone Masonry wall with hammer dressed or blunt</td>
<td>14.28 m³</td>
<td>Rs. 1022.00/m³</td>
<td>Rs. 14,660.60</td>
</tr>
<tr>
<td>4/1 Earthwork in excavation to the proper level and grade including height</td>
<td>11.20 m³</td>
<td>Rs. 46.00/m³</td>
<td>Rs. 515.20</td>
</tr>
</tbody>
</table>

**TOTAL**: Rs. 255,245.60

Say Rs. 2,54,250.00

**Note**: All measurements are approximate and may vary slightly. The estimate is based on the schedule of rates for roads, E&D under Western Circle, PWD (Roads), Meghalaya for the year 2007-08.
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AT SANGRIANG UNDER WEINIER IWMP 2010 - 2011

(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08)

1/3 (a) Earthwork in excavation to the proper level and grade including high density soil and all ill
removal of spoils up to 30m lead and all ill.
Earthwork in excavation to the proper level and

1 x 16.00 x 0.80 = 12.80 m³
@Rs. 46.00/m³ …………………………………. Rs. 588.80

2/21 (a) Providing regular stone Masonry wall with hammer dressed or blunt dressed stones of heavy section etc. complete as directed

1 x 16.00 x 1.00 x 0.20 = 3.20 m³
@Rs. 618.00/m³ …………………………………. Rs. 1977.60

3/22 Providing regular stone masonry with hammer dressed or blunt chisel dressed stones of heavy section etc complete as directed

1 x 16.00 x 1.00 x 0.60 = 9.60 m³
1 x 16.00 x 0.80 + 1.20 x 1.20 = 17.28 m³
@Rs. 1022.00/m³
= 26.88 m³
…………………………………. Rs. 27471.36

TOTAL = Rs. 30037.76
Say = Rs. 30038.00
(Rupees Thirty Thousand Thirty Eight) only
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AT SANGRIANG UNDER WEINIER IWMP 2010 - 2011

(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08)

1/3 (a) Earthwork in excavation to the proper level and grade including high drain, if any and all the earthworks in excavation to the proper level and

\[ 1 \times 16.50 \times 1.00 \times 0.80 = 13.20 \text{ m}^3 \]

@Rs.46.00/m³ ……………………………………. Rs.607.20

2/21 (a) Providing regular stone Masonry wall with hammer dressed or blunt chisel dressed stones of heavy section etc. complete as directed

\[ 1 \times 16.50 \times 1.00 \times 0.20 = 3.30 \text{ m}^3 \]

@Rs.618.00/m³ ………………………………….. Rs.2039.40

3/22 Providing regular stone masonry with hammer dressed or blunt chisel dressed stones of heavy section etc complete as directed

\[ 1 \times 16.50 \times 1.00 \times 0.60 = 9.90 \text{ m}^3 \]

\[ 1 \times 16.50 \times 0.65 + 1.00 \times 1.20 = 16.34 \text{ m}^3 \]

@Rs.1022.00/m³

……………………………….. Rs.26817.28

TOTAL = Rs.29463.88

Say = Rs.29464.00

(Rupees Twenty Nine Thousand Four Hundred Sixty Four Only)

CIRCUIT RD (ROADS), MECHALAYA FOR THE YEAR 2007 - 08

BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE UNDER IWMP 2010 - 2011

ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AT
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AT
SANGRIANG UNDER WEINIER IWMP 2010-2011

(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN
CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007-08)

1/3 (a) Earthwork in excavation to the proper level and
grade including high level dressing as directed and
removal of spoil to 50m lead and all hill
Earthwork in excavation to the proper level and

1 x 32.00 x 1.20 x 0.80 = 30.72 m³
@Rs.46.00/m³ …………………………………. Rs.1413.12

2/21 (a) Providing regular stone masonry with hammer dressed or
blunt dressed stones of heavy section etc complete

1 x 32.00 x 1.20 x 0.20 = 7.68 m³
@Rs.618.00/m³ …………………………………. Rs.4746.24

3/22 Providing regular stone masonry with hammer dressed or
blunt dressed stones of heavy section etc complete

1 x 32.00 x 1.20 x 0.60 = 23.04 m³

1 x 32.00 x 0.80 + 1.20 x 1.50 = 48.00 m³
\[\frac{2}{2}= 71.04 \text{ m}^3\]
@Rs.1022.00/m³ ……………………………….. Rs.72602.88

TOTAL = Rs.78762.24
Say = Rs.78762.00
(Rupees Seventy Eight Thousand Seven Hundred Sixty Two) only

CIRCLE PWD (ROADS), MEGHALAYA FOR THE YEAR 2007-08
BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN
CIRCLE UNDER WEINIER IWMP 2010-2011

ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AT.
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AT SANGRIANG UNDER WEINIER IWMP 2010 - 2011 (BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

1/3 (a) Earthwork in excavation to the proper level and grade including high level dressing as directed and removal of spoils up to 30m lead and all till Earthwork in excavation to the proper level and grade

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>24.00 m³</td>
<td>Rs. 46.00/m³</td>
<td>Rs. 1104.00</td>
</tr>
<tr>
<td>2</td>
<td>6.00 m³</td>
<td>Rs. 182.00/m³</td>
<td>Rs. 1092.00</td>
</tr>
<tr>
<td>3</td>
<td>40.50 m³</td>
<td>Rs. 1022.00/m³</td>
<td>Rs. 41532.00</td>
</tr>
</tbody>
</table>

TOTAL = Rs. 64599.00
Say = Rs. 64600.00 (Rupees Sixty Four Thousand Six Hundred) only

3/22

CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007-08
BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE UNDER WEINIER IWMP 2010 - 2011
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AT
### Estimate for Construction of Retaining Wall at Sangriang Under Weinier IWMP 2010 - 2011

(Based on schedule of rates for roads, E&D under Western Circle, PWD (Roads), Meghalaya for the year 2007 - 08)

<table>
<thead>
<tr>
<th>Description</th>
<th>Volume Calculations</th>
<th>Unit Rate</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/3 (a) Earthwork in excavation to the proper level and grade including right dressing as directed and removal of spoils up to 30m lead and all lift.</td>
<td>$1 \times 35.00 \times 1.20 \times 0.80 = 33.60 \text{ m}^3$</td>
<td>@Rs.46.00/m³</td>
<td>Rs.1,545.60</td>
</tr>
<tr>
<td>2/21 (a) Providing regular stone masonry wall with hammer dressed or blunt chisel dressed stones of heavy section etc. complete as directed</td>
<td>$1 \times 35.00 \times 1.20 \times 0.20 = 8.40 \text{ m}^3$</td>
<td>@Rs.618.00/m³</td>
<td>Rs.5,191.20</td>
</tr>
<tr>
<td></td>
<td>$1 \times 35.00 \times 0.90 \times 1.20 \times 1.50 = 55.12 \text{ m}^3$</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>$2 \times 35.00 \times 1.20 \times 0.60 \times 0.60 = 33.60 \text{ m}^3$</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>$1 \times 35.00 \times 1.20 \times 0.80 = 42.00 \text{ m}^3$</td>
<td>@Rs.1,022.00/m³</td>
<td>Rs.43,440.00</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td>Rs.88,824.00</td>
</tr>
<tr>
<td><strong>Say</strong></td>
<td></td>
<td></td>
<td>Rs.88,824.00</td>
</tr>
</tbody>
</table>

(Rupees Eighty Eight Thousand Eight Hundred Twenty Four only)

---

3/22 Providing regular stone masonry with hammer dressed or blunt chisel dressed stones of heavy section etc. complete as directed:

<table>
<thead>
<tr>
<th>Volume Calculations</th>
<th>Unit Rate</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>$1 \times 35.00 \times 1.20 \times 0.60 = 21.60 \text{ m}^3$</td>
<td>@Rs.618.00/m³</td>
<td>Rs.1,326.24</td>
</tr>
<tr>
<td>$1 \times 35.00 \times 0.90 \times 1.20 \times 1.50 = 55.12 \text{ m}^3$</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$2 \times 35.00 \times 1.20 \times 1.00 \times 1.00 = 72.00 \text{ m}^3$</td>
<td>@Rs.1,022.00/m³</td>
<td>Rs.73,744.00</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(Rupees Eighty One Thousand Forty Seven only)
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AT
SANGRIANG UNDER WEINIER IWMP 2010-2011
(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007-08

1/3 (a) Earthwork in excavation to the proper level and grade as directed and removal of spoils up to 30m lead and all fill.

\[
\begin{align*}
\text{Volume} & = 36.00 \times 0.08 \\
\text{Cost} & = 36.00 \times 0.08 \times 0.46.00/	ext{m}^3
\end{align*}
\]

\[\text{Rs.} \, 1656.00\]

2/21 (a) Providing regular stone masonry wall with hammer dressed or blunt dressed stones of heavy section complete as directed.

\[
\begin{align*}
\text{Volume} & = 1 \times 45.00 \times 1.00 \times 0.20 \\
\text{Cost} & = 1 \times 45.00 \times 1.00 \times 0.20 \times 0.618.00/	ext{m}^3
\end{align*}
\]

\[\text{Rs.} \, 5562.00\]

3/22 (a) Providing regular stone masonry wall with hammer dressed or blunt dressed stones of heavy section complete as directed. Earthwork in excavation to the proper level and grade as directed.

\[
\begin{align*}
\text{Volume} & = 27.00 \times 4.50 \times 1.00 \\
\text{Volume} & = 27.00 \times 4.50 \times 0.80 + 1.20 \times 1.00 \times 0.20 \\
\text{Cost} & = 27.00 \times 4.50 \times 1.00 \times 0.80 \times 0.1022.00/	ext{m}^3
\end{align*}
\]

\[\text{Rs.} \, 77263.20\]

\[\text{TOTAL} = \text{Rs.} \, 84481.00\]

\[\text{Rs.} \, 84481.00\]

\[\text{Say} \, \text{Rs.} \, 84481.00\]

\[\text{Rupees Eighty Four Thousand Four Hundred Eighty One} \text{ only}\]
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AT SANGRIANG UNDER WEINIER IWMP 2010 - 2011

(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08)

1/3 (a) Earthwork in excavation to the proper level and grade including high debris as directed and removal of spoils up to 30m lead and all fill.

\[ \text{Volume} = 1 \times 52.00 \times 1.00 \times 0.80 = 41.60 \text{ m}^3 \]

@Rs.46.00/m3 …………………………………. Rs.1913.60

2/21 (a) Providing regular stone Masonry wall with hammer dressed or blunt dressed stones of heavy section etc. complete as directed

\[ \text{Volume} = 1 \times 52.00 \times 1.00 \times 0.20 = 10.40 \text{ m}^3 \]

@Rs.618.00/m3 …………………………………. Rs.6427.20

3/22 Providing regular stone masonry with hammer dressed or blunt dressed stones of heavy section etc complete as directed

\[ \text{Volume} = 1 \times 52.00 \times 0.60 + 1.00 \times 1.20 = 49.92 \text{ m}^3 \]

\[ \text{Volume} = 2 \times 18.00 \text{ m}^3 + 2 \times 18.00 \text{ m}^3 = 41.60 \text{ m}^3 \]

@Rs.1022.00/m3 = 81.12 m³ …………………………………. Rs.82904.64

TOTAL = Rs.91245.44

Say = Rs.91245.00

(Rupees Ninety One Thousand Two Hundred Forty Five) only
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AT SANGRIANG UNDER WEINIER IWMP 2010 - 2011 (BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08)

1/3 (a) Earthwork in excavation to the proper level and grade including light dressing as directed and removal of spoils up to 30m lead and all lift.

\[ 1 \times 65.00 \times 1.20 \times 0.80 = 62.40 \ m^3 \]
\[ \times Rs.46.00 /m^3 = Rs.2870.40 \]

2/21 (a) Providing regular stone masonry with hammer dressed or blunt dressed stones of heavy section and complete as directed.

\[ 1 \times 65.00 \times 1.20 \times 0.20 = 15.60 \ m^3 \]
\[ \times Rs.618.00 /m^3 = Rs.9640.80 \]

3/22 Providing regular stone masonry with hammer dressed or blunt dressed stones of heavy section and complete as directed.

\[ 1 \times 65.00 \times 1.20 \times 0.60 = 46.80 \ m^3 \]
\[ 1 \times 65.00 \times 0.80 + 1.20 \times 1.30 = 84.50 \ m^3 \]
\[ 2 = 131.30 \ m^3 \]
\[ \times Rs.1022.00 /m^3 = Rs.134188.60 \]

TOTAL = Rs.146699.80

Say = Rs.146700.00

(Rupees One Lakh Forty Six Thousand Seven Hundred) only
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AT SANGRIANG UNDER WEINIER IWMP 2010 - 2011

BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

1/3 (a) Earthwork in excavation to the proper level and grade including high discharge se ditches and removal of spoil up to 30m lead and all lift.

\[ 1 \times 35.00 \times 0.70 + 1.00 \times 1.00 = 38.68 \text{ m}^3 \]

@Rs.46.00/m³

………………………………. Rs.180.57

2/21 (a) Providing regular stone Masonry wall with hammer dressed or blunt dressed stones of heavy section etc complete

\[ 1 \times 35.00 \times 1.00 \times 0.20 = 7.00 \text{ m}^3 \]

@Rs.618.00/m³

………………………………. Rs.4326.00

3/22 Providing regular stone masonry with hammer dressed or blunt dressed stones of heavy section etc complete

\[ 1 \times 35.00 \times 0.70 + 1.00 \times 1.30 = 59.68 \text{ m}^3 \]

@Rs.1022.00/m³

………………………………. Rs.60992.96

TOTAL = Rs.66606.96

Say = Rs.66607.00

(Rupees Six Thousand Six Hundred Seven) only

---

(Rs.66607.00)

(Rs.4326.00)

(Rs.60992.96)

(Rs.46.00/m³)

(Rs.618.00/m³)

(Rs.1022.00/m³)

(Rs.1288.00)

(Rs.46.00/m³)

(Rs.46.00/m³)

(Rs.1288.00)
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AT SANGRIANG UNDER WEINIER IWMIP 2010 - 2011 (BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

1/3 (a) Earthwork in excavation to the proper level and grade including dressings up to 30m lead and all lift.

\[
\begin{align*}
1 \times 25.00 \times 1.00 \times 0.80 & = 20.00 \text{ m}^3 \\
@ \text{Rs.} 46.00/\text{m}^3 & = \text{Rs.} 920.00
\end{align*}
\]

2/21 (a) Providing regular stone Masonry wall with hammer dressed or blunt dressed stones of heavy section etc complete as directed.

\[
\begin{align*}
1 \times 25.00 \times 1.00 & = 5.00 \text{ m}^3 \\
1 \times 25.00 \times 1.00 \times 0.20 & = 5.00 \text{ m}^3 \\
\text{TOTAL} & = 10.00 \text{ m}^3 \\
@ \text{Rs.} 618.00/\text{m}^3 & = \text{Rs.} 6180.00
\end{align*}
\]

3/22 Providing regular stone masonry with hammer dressed or blunt dressed stones of heavy section etc complete as directed.

\[
\begin{align*}
1 \times 25.00 \times 1.00 \times 0.60 & = 15.00 \text{ m}^3 \\
1 \times 25.00 \times 1.00 + 1.20 & = 24.00 \text{ m}^3 \\
2 \times \text{Rs.} 1022.00/\text{m}^3 & = \text{Rs.} 4088.00
\end{align*}
\]

\[
\begin{align*}
1 \times 25.00 \times 0.60 + 1.00 \times 1.20 & = 24.00 \text{ m}^3 \\
@ \text{Rs.} 1022.00/\text{m}^3 & = \text{Rs.} 24528.00
\end{align*}
\]

\[
\begin{align*}
\text{TOTAL} & = \text{Rs.} 43868.00
\end{align*}
\]

Say = \text{Rs.} 43868.00

(Rupees Forty Three Thousand Eight Hundred Sixty Eight) only
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AT SANGRIANG UNDER WEINIER IWMP 2010 - 2011

(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08)

1/3 (a) Earthwork in excavation to the proper level and grade including high dressing as directed and removal of spoils up to 30m lead and all till
Earthwork in excavation to the proper level and

\[
\begin{align*}
\text{1} \times 35.00 \times 1.20 \times 0.80 &= 33.60 \ m^3 \\
\text{1} \times 35.00 \times 1.20 \times 0.60 &= 21.00 \ m^3 \\
\text{1} \times 35.00 \times 0.80 + 1.20 \times 1.50 &= 52.20 \ m^3
\end{align*}
\]

\@Rs.46.00/m^3 = 77.40 \ m^3

…………………………………. Rs.3519.20

TOTAL = Rs.85829.60

Say = Rs.85830.00

(Rupees Eighty Thousand Eight Hundred Thirty) only

Rs.85830.00

Rs.79102.80

Rs.5191.20

Providing regular stone masonry with hammer dressing or
Providing regular stone masonry with hammer dressing or

\[
\begin{align*}
\text{1} \times 35.00 \times 1.20 \times 0.20 &= 8.40 \ m^3
\end{align*}
\]

\@Rs.1022.00/m^3 = 5191.20

Providing regular stone masonry wall with hammer dressing or

\[
\begin{align*}
\text{1} \times 35.00 \times 1.20 \times 0.060 &= 2.70 \ m^3
\end{align*}
\]

\@Rs.618.00/m^3 = 1545.60

Providing regular stone masonry wall with hammer dressing or

\[
\begin{align*}
\text{1} \times 35.00 \times 0.80 + 1.20 \times 1.50 &= 52.20 \ m^3
\end{align*}
\]

\@Rs.46.00/m^3 = 77.40 \ m^3

Providing regular stone masonry wall with hammer dressing or

Rs.79102.80

Rs.5191.20

Rs.1545.60

Rs.3519.20

Rs.85830.00
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/3</td>
<td>Earthwork in excavation to the proper level and grade including light dressing as directed and removal of spoils up to 30m lead and all lift</td>
<td>21.12 m³</td>
<td>Rs.46.00/m³</td>
<td>Rs.971.52</td>
</tr>
<tr>
<td>2/21</td>
<td>Providing regular stone Masonry wall with hammer dressed or blunt dressed stones of heavy section etc. complete</td>
<td>5.28 m³</td>
<td>Rs.618.00/m³</td>
<td>Rs.3263.04</td>
</tr>
<tr>
<td>3/22</td>
<td>Providing regular stone Masonry wall with hammer dressed or blunt dressed stones of heavy section etc. complete</td>
<td>21.12 m³</td>
<td>Rs.1022.00/m³</td>
<td>Rs.48228.18</td>
</tr>
</tbody>
</table>

**TOTAL:** Rs.52463.00

Say Rs.52,463.00
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AT SANGRIANG UNDER WEINIER IWMP 2010 - 2011

(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08)

1/3 (a) Earthwork in excavation to the proper level and grade including removal of spoils up to 30m lead and all fill up to $1.50 \times 0.10 \times 0.80 = 1.20$ m³
@Rs.46.00/m³ .................................................................................. Rs.552.00

2/21 (a) Providing regular stone Masonry wall with hammer dressed or blunt dressed stones of heavy section etc complete

<table>
<thead>
<tr>
<th>Volume Calculation</th>
<th>Rate</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>$1 \times 25.00 \times 1.00 \times 0.20 = 5.00$ m³</td>
<td>@Rs.618.00/m³</td>
<td>Rs.3090.00</td>
</tr>
<tr>
<td>$1 \times 25.00 \times 0.80 + 1.00 \times 1.50 = 33.75$ m³</td>
<td>@Rs.1022.00/m³</td>
<td>Rs.34822.50</td>
</tr>
</tbody>
</table>

**TOTAL** = Rs.53832.50
Say = Rs.53833.00
(Rupees Fifty Three Thousand Eight Hundred Thirty Three) only

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(CIRCLE PWD (ROADS), MECHALAYA FOR THE YEAR 2007 - 80
(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA)

ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AT
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
<th>Rate (Rs/m³)</th>
<th>Total Cost (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/3</td>
<td>Earthwork in excavation to the proper level and grade including head dressing and all till removed of spoils up to jam level</td>
<td>24.00 m³</td>
<td>46.00</td>
<td>1104.00</td>
</tr>
<tr>
<td>2/21</td>
<td>Providing regular stone masonry wall with hammer dressed or plain dressed stones of heavy section etc complete</td>
<td>6.00 m³</td>
<td>618.00</td>
<td>3708.00</td>
</tr>
<tr>
<td>3/22</td>
<td>Providing regular stone masonry with hammer dressed or blunt chisel dressed stones of heavy section etc complete</td>
<td>18.00 m³</td>
<td>1022.00</td>
<td>59787.00</td>
</tr>
</tbody>
</table>

**TOTAL** | | | | **Rs. 64,599.00** |

**Say** | | | | **Rs. 64,599** only |

---

**CIRCLE, PWD (ROADS), MECHALAYA FOR THE YEAR 2010-2011**

**BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN SANGLING UNDER WEINIER IWMP 2010 - 2011**

**ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AT**
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AT SANGRIANG UNDER WEINIER IWMP 2010 - 2011 (BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

1/3 (a) Earthwork in excavation to the proper level and grade including high dressings as directed and made up to the proper level and grade.

\[ \frac{1 \times 22.00 \times 0.70 + 1.50}{0.60} \times 2 \times 22.00 \times 0.20 = 5.28 \text{ m}^3 \]

@Rs.618.00/m³ ………………………………. Rs.3263.04

3/22 Providing regular stone masonry with hammer dressed or blunt dress dressed stones of heavy section etc. complete as directed.

\[ \frac{1 \times 22.00 \times 0.84 + 1.20 \times 1.20}{2} \times 2 \times 22.00 \times 1.20 = 31.35 \text{ m}^3 \]

@Rs.1022.00/m³ = 47.19 m³ …………………………………. Rs.48228.18

TOTAL = Rs.52462.74
Say = Rs.52463.00 (Rupees Fifty Two Thousand Four Hundred Sixty Three) only
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AT
SANGRIANG UNDER WEINIER IWMP 2010 - 2011
(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN
CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

1/3 (a) Earthwork in excavation to the proper level and
grade including high dressing as directed and
removal of spoils up to 30m lead and all
light materials in excavation to the proper level and

0 x 21.00 x 1.00 x 0.80 = 16.80 m³
@Rs.46.00/m³ …………………………………. Rs.772.80

2/3 (a) Providing regular stone Masonry wall with hammer dressed or
plain dressed stones of heavy section etc complete

1 x 21.00 x 1.00 x 0.60 = 12.60 m³
1 x 21.00 x 1.00 x 0.20 = 4.20 m³
2 x 1.00 x 1.50 = 25.20 m³

@Rs.1022.00/m³ = 37.80 m³
………………………………. Rs.38631.60

TOTAL = Rs.42000.00
Say = Rs.42000.00
(Rupees Forty Two Thousand) only
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AT SANGRIANG UNDER WEINER IWMP 2010 - 2011
(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

1/3 (a) Earthwork in excavation to the proper level and grade including high density soil and all fill and removal of spoils up to 30m lead and all hill

\[1 \times 18.00 \times 1.00 \times 0.80 = 14.40 \text{ m}^3 \]

@Rs.46.00/m\(^3\) …………………………………. Rs.662.40

2/21 (a) Providing regular stone Masonry wall with hammer dressed or plain dressed stones of heavy section etc. complete as directed

\[1 \times 18.00 \times 1.00 \times 0.60 = 10.80 \text{ m}^3 \]

\[1 \times 18.00 \times 1.20 + 1.00 \times 1.20 = 17.28 \text{ m}^3 \]

@Rs.618.00/m\(^3\) …………………………………. Rs.2224.80

3/22 Providing regular stone masonry with hammer dressed or blunt chisel dressed stones of heavy section etc. complete as directed

\[1 \times 18.00 \times 0.60 + 1.00 \times 1.20 = 17.28 \text{ m}^3 \]

@Rs.1022.00/m\(^3\)

= 28.08 m\(^3\) …………………………………. Rs.28616.00

TOTAL = Rs.31203.20

Say = Rs.31203.20

(Rupees Thirty One thousand Two Hundred Three) only

0

RS.31203.20

T.O.T.A.L

RS.31203.20

RS.31203.20

RS.31203.20

32/40

RS.662.40

3/60

Rs.2224.80

36/60

Rs.28616.00

27/40
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AT MAWTHAR UNDER WEINIER IWMP 2010 - 2011

BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

1/3 (a) Earthwork in excavation to the proper level and grade dressing as directed and removal of spoils up to 30m lead and all hill

\[
\begin{align*}
\text{Volume} & = 22.08 \text{ m}^3 \\
\text{Cost} & = 22.08 \times 46.00 = \text{Rs.1015.68}
\end{align*}
\]

2/21 (a) Providing regular stone masonry with hammer dressed or blunt dressed stones of heavy section complete as directed

\[
\begin{align*}
\text{Volume} & = 5.52 \text{ m}^3 \\
\text{Cost} & = 5.52 \times 618.00 = \text{Rs.3411.36}
\end{align*}
\]

3/22 Providing regular stone masonry with hammer dressed or blunt dressed stones of heavy section complete as directed

\[
\begin{align*}
\text{Volume} & = 16.56 \text{ m}^3 + 25.53 \text{ m}^3 = 42.09 \text{ m}^3 \\
\text{Cost} & = 42.09 \times 1022.00 = \text{Rs.43015.98}
\end{align*}
\]

\[\text{TOTAL} = \text{Rs.47443.02}\]

Say = Rs.47443.00

(Rupees Forty Seven Thousand Four Hundred Forty Three) only
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AT MAWTHAR UNDER WEINER IWMP 2010 - 2011
(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

1/3 (a) Earthwork in excavation to the proper level and grade including high density sand and all soil removed of spoils up to jam level and all hill earthwork in excavation to the proper level and grade.

1 x 25.00 x 1.00 x 0.80 = 20.00 m$^3$

@Rs.46.00/m$^3$ ……………………………………. Rs.920.00

1/2 (a) Providing regular stone Masonry wall with hammer dressed or blunt dressed stones of heavy section etc. complete as directed

1 x 25.00 x 1.00 x 0.20 = 5.00 m$^3$

@Rs.618.00/m$^3$ ………………………………… Rs.3090.00

2/2 (a) Providing regular stone masonry with hammer dressed or blunt dressed stones of heavy section etc complete as directed

$\frac{1}{3} \times \frac{25.00 \times 1.00 \times 1.20 + 25.00 \times 1.00 \times 0.65}{2} = 24.75 m^3$

$\frac{1}{3} \times \frac{25.00 \times 1.00 \times 0.65}{2} = 15.00 m^3$

@Rs.1022.00/m$^3$ = 37.75 m$^3$

………………………………………… Rs.40624.50

TOTAL = Rs.44634.50

Say = Rs.44635.00

(Rupees Forty Four Thousand Six hundred Thirty Five) only
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AT MAWTHAR UNDER WEINIER IWMP 2010 - 2011 (BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

1/3 (a) Earthwork in excavation to the proper level and grade including light dressing and removal of spoils up to 30m lead and all final dressing in excavation to the proper level and grade including light dressing as directed and removal of spoils up to 30m lead and all final dressing in excavation to the proper level and grade including light dressing as directed

<table>
<thead>
<tr>
<th>Description</th>
<th>Volume (m³)</th>
<th>Rate (Rs/m³)</th>
<th>Amount (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Earthwork in excavation to the proper level and grade</td>
<td>13.60</td>
<td>46.00</td>
<td>625.60</td>
</tr>
<tr>
<td>Providing regular stone masonry wall with hammer dressed stones of heavy section etc.</td>
<td>3.40</td>
<td>618.00</td>
<td>2104.20</td>
</tr>
<tr>
<td>Providing regular stone masonry wall with hammer dressed stones of heavy section etc.</td>
<td>10.20</td>
<td>1022.00</td>
<td>10220.00</td>
</tr>
<tr>
<td>Providing regular stone masonry wall with hammer dressed stones of heavy section etc.</td>
<td>21.68</td>
<td>1022.00</td>
<td>22098.36</td>
</tr>
</tbody>
</table>

**TOTAL** = Rs. 35308.16

Say = Rs. 35308.00 (Rupees Thirty Five Thousand Three Hundred Eight) only
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AT MAWTHAR UNDER WEINIER IWMP 2010 - 2011
(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08)

1/3 (a) Earthwork in excavation to the proper level and grade including high density as directed and removal of Spoils up to 30m lead and all tail.

\[ 1 \times 25.00 \times 1.20 \times 0.80 = 24.00 \text{ m}^3 \]

@Rs.46.00/m3 …………………………………. Rs.1104.00

2/21 (a) Providing regular stone Masonry wall with hammer dressed or blunt dressd stones of heavy section etc complete as directed

\[ 1 \times 25.00 \times 1.20 \times 0.20 = 6.00 \text{ m}^3 \]

@Rs.618.00/m3 …………………………………. Rs.3708.00

3/22 Providing regular stone masonry with hammer dressed or blunt dressd stones of heavy section etc complete as directed

\[ 1 \times 25.00 \times 1.20 \times 0.60 = 18.00 \text{ m}^3 \]

\[ 1 \times 25.00 \times 0.70 + 1.20 \times 1.50 = 35.63 \text{ m}^3 \]

@Rs.1022.00/m3 = 53.63 m^3 …………………………………. Rs.54809.86

TOTAL = Rs.59621.86

Say = Rs.59622.00

(Rupees Fifty Nine Thousand Six Hundred Twenty Two) only

CIRCLE: PWD (ROADS), MECHALAYA FOR THE YEAR 2007-08
BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, WEINIER IWMP 2010-2011
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AT
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AT MAWDUH UNDER WEINIER IWMP 2010 - 2011
(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08)

1/3 (a) Earthwork in excavation to the proper level and grade including light dressing as directed and removal of spoils up to 30m lead and all hill

\[ 1 \times 20.00 \times 1.00 \times 0.80 = 16.00 \text{ m}^3 \]

@Rs.46.00/m³ …………………………………. Rs.736.00

2/21 (a) Providing regular stone masonry with hammer dressed or blunt chisel dressed stones of heavy section etc complete as directed

\[ 1 \times 20.00 \times 1.00 \times 0.20 = 4.00 \text{ m}^3 \]

@Rs.618.00/m³ ………………………………. Rs.2472.00

3/22 Providing regular stone masonry with hammer dressed or blunt chisel dressed stones of heavy section etc complete as directed

\[ 1 \times 20.00 \times 1.00 \times 0.60 = 12.00 \text{ m}^3 \]

\[ 1 \times 20.00 \times 1.30 = 20.80 \text{ m}^3 \]

\[ 2 \times \frac{12.00 \times 20.80}{12.00 + 20.80} = 17.98 \text{ m}^3 \]

@Rs.1022.00/m³ …………………………………. Rs.33521.60

TOTAL = Rs.36729.60

Say = Rs.36730.00
(Rupees Thirty Six Thousand Seven Hundred Thirty) only

RS.4792.00

\[ 1 \times 20.00 \times 0.20 = 4.00 \text{ m}^3 \]

@Rs.18.00/m³ …………………………………. Rs.72.00

Rs.36730.00

\[ 1 \times 20.00 \times 0.80 = 16.00 \text{ m}^3 \]

@Rs.46.00/m³ …………………………………. Rs.736.00

CIRCLE, PWDS (ROADS), MECHNICAL FOR THE YEAR 2007 – 08
BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE UNDER IWMP 2010 - 2011
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AT
## Estimate for Construction of Retaining Wall at Mawdoh under Weiner IWMP 2010-2011

### (Based as per Schedule of Rates for Roads, E&D under Western Circle, PWD (Roads), Meghalaya for the Year 2007-08)

#### 1/3 (a) Earthwork in excavation to the proper level and grade including light dressing as directed and removal of spoils up to 30m lead and all fill.

<table>
<thead>
<tr>
<th>Volume Calculation</th>
<th>Rate (Rs/m³)</th>
<th>Total Cost (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 x 25.00 x 1.20 x 0.80 = 24.00 m³</td>
<td>@Rs.46.00/m³</td>
<td>Rs.1104.00</td>
</tr>
</tbody>
</table>

#### 2/21 (a) Providing regular stone Masonry wall with hammer dressed or blunt chisel dressed stones of heavy section etc complete as directed.

<table>
<thead>
<tr>
<th>Volume Calculation</th>
<th>Rate (Rs/m³)</th>
<th>Total Cost (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 x 25.00 x 1.20 x 0.20 = 6.00 m³</td>
<td>@Rs.618.00/m³</td>
<td>Rs.3708.00</td>
</tr>
</tbody>
</table>

#### 3/22 Providing regular stone Masonry with hammer dressed or blunt chisel dressed stones of heavy section etc complete as directed.

<table>
<thead>
<tr>
<th>Volume Calculation</th>
<th>Rate (Rs/m³)</th>
<th>Total Cost (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 x 25.00 x 0.60 + 1.30 x 1.20 = 29.25 m³</td>
<td>@Rs.1022.00/m³</td>
<td>Rs.48289.50</td>
</tr>
</tbody>
</table>

**TOTAL = Rs.53101.50**

**Rs.53102.00**

---

(Circle, PWD (Roads), Mechalaya for the Year 2007-08)

(Rs.53102.00)

---

(Rs.46.00/m³)

(Rs.618.00/m³)

(Rs.1022.00/m³)
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AT MAWDUH UNDER WEINIER IWMP 2010 - 2011 (BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

1/3 (a) Earthwork in excavation to the proper level and grade including high drainage ditches etc. directed and removed of spoils up to 30m lead and all lift.

\[ 1 \times 35.00 \times 0.80 + 1.20 \times 1.30 = 70.70 \, m^3 \]
\[ @Rs.46.00/\text{m}^3 = Rs.3319.12 \]

2/21 (a) Providing regular stone Masonry wall with hammer dressed or blunt dressed stones of heavy section etc. complete as directed.

\[ 1 \times 35.00 \times 1.20 \times 0.20 = 8.40 \, m^3 \]
\[ @Rs.618.00/\text{m}^3 = Rs.5191.20 \]

3/22 Providing regular stone masonry with hammer dressed or blunt dressed stones of heavy section etc complete as directed.

\[ 1 \times 35.00 \times 0.80 + 1.20 \times 1.30 = 45.50 \, m^3 \]
\[ 1 \times 35.00 \times 1.20 = 42 \, m^3 \]
\[ \quad = 70.70 \, m^3 \]
\[ @Rs.1022.00/\text{m}^3 = Rs.72255.40 \]

\[ \text{TOTAL} = Rs.78992.20 \]
\[ \text{Say} = Rs.78992.00 \]

(Rupees Seventy Eight Thousand Nine Hundred Ninety Two) only
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AT MAWDUH UNDER WEINIER IWMP 2010 - 2011

BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

1/3 (a) Earthwork in excavation to the proper level and grade as directed

\[
\begin{align*}
&\frac{1}{3} \times 0.80 \\
&= 0.27 \text{ m}
\end{align*}
\]

\[
\begin{align*}
&1 \times 25.00 \times 1.00 \times 0.80 = 20.00 \text{ m}^3 \\
&\times \text{Rs.} \, 46.00/\text{m}^3 \\
&= \text{Rs.} \, 920.00
\end{align*}
\]

2/21 (a) Providing regular stone Masonry wall with hammer dressed or blunt dressed stones of heavy section etc. complete as directed

\[
\begin{align*}
&\frac{1}{2} \times 0.20 \\
&= 0.10 \text{ m}
\end{align*}
\]

\[
\begin{align*}
&1 \times 25.00 \times 1.00 \times 0.60 = 15.00 \text{ m}^3 \\
&1 \times 25.00 \times 0.60 + 1.30 \times 1.00 = 26.00 \text{ m}^3 \\
&\times \text{Rs.} \, 1022.00/\text{m}^3 \\
&= \text{Rs.} \, 43,102.00
\end{align*}
\]

3/22 Providing regular stone Masonry wall with hammer dressed or blunt dressed stone of heavy section etc. complete

\[
\begin{align*}
&\frac{1}{2} \times 0.60 \\
&= 0.30 \text{ m}
\end{align*}
\]

\[
\begin{align*}
&1 \times 25.00 \times 1.00 \times 0.60 = 15.00 \text{ m}^3 \\
&1 \times 25.00 \times 0.60 + 1.30 \times 1.00 = 26.00 \text{ m}^3 \\
&\times \text{Rs.} \, 1022.00/\text{m}^3 \\
&= \text{Rs.} \, 41,902.00
\end{align*}
\]

TOTAL = Rs. \, 45,912.00

Say = Rs. \, 45,912.00

(Rupees Forty Five Thousand Nine Hundred Twelve) only

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Based on the Schedule of Rates for Roads, E&D under Western Circle, PWD (Roads), Meghalaya for the Year 2007 – 08.
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AT MAWDUHUNDER WEINIER IWMP 2010 - 2011 (BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

1/3 (a) Earthwork in excavation to the proper level and grade including high and low level and all intermediate levels.

\[ \text{Earthwork in excavation to the proper level and all intermediate levels.} \]

\[ 20.80 \times 1.00 \times 0.80 = 16.64 \text{ m}^3 \]

\[ \text{Cost: Rs.} 46.00 \times \text{m}^3 \]

\[ \text{Rs.} 960.80 \]

2/21 (a) Providing regular stone masonry with hammer dressed or

\[ \text{Providing regular stone masonry with hammer dressed or} \]

\[ 26.00 \times 1.00 \times 0.70 + 1.30 \times 1.00 \times 0.70 = 28.73 \text{ m}^3 \]

\[ \text{Cost: Rs.} 618.00 \times \text{m}^3 \]

\[ \text{Rs.} 3213.00 \]

3/22 Provided regular stone masonry with hammer dressed or

\[ \text{Provided regular stone masonry with hammer dressed or} \]

\[ 26.00 \times 1.00 \times 0.60 = 15.60 \text{ m}^3 \]

\[ \text{Cost: Rs.} 1022.00 \times \text{m}^3 \]

\[ \text{Rs.} 45305.26 \]

TOTAL = Rs. 49475.66

Say = Rs. 49476.00

(Rupees Forty Nine Thousand Four Hundred Seventy Six) only

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CIRCLE: PWD (ROADS), MECHALAYA FOR THE YEAR 2007 - 08

BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE: IWMP 2010 - 2011

ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AT
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AT MAWTHAR UNDER WEINIER IWMP 2010 - 2011

(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08)

1/3

(a) Earthwork in excavation to the proper level and grade including high dress as directed and removal of spoils up to 30m lead and all till.

\[ 1 \times 30.00 \times 1.00 \times 0.80 = 24.00 \, m^3 \] @Rs.46.00/m³ ………………………….………. Rs.1104.00

2/21

(a) Providing regular stone Masonry wall with hammer dressed or plain dressed stones of heavy section etc. complete as directed.

\[ 1 \times 30.00 \times 1.00 \times 0.20 = 6.00 \, m^3 \] @Rs.618.00/m³ …………………………………. Rs.3708.00

22

Providing regular stone Masonry wall with hammer dressed or plain dressed stone of heavy section etc. complete as directed.

\[ 1 \times 30.00 \times 1.00 \times 0.60 + 1.50 \times 0.60 = 36.00 \, m^3 \] @Rs.1022.00/m³ = Rs.36792.00

\[ 1 \times 30.00 \times 1.00 \times 1.50 = 45.00 \, m^3 \] @Rs.1022.00/m³ = Rs.45990.00

TOTAL = Rs.60000.00 (Rupees Sixty Thousand) only

1/3

(a) Earthwork in excavation to the proper level and grade including high dress as directed and removal of spoils up to 30m lead and all till.

\[ 2 \times 30.00 \times 1.00 \times 0.80 = 48.00 \, m^3 \] @Rs.46.00/m³ = Rs.2208.00

2/21

Providing regular stone Masonry wall with hammer dressed or plain dressed stone of heavy section etc. complete as directed.

\[ 3 \times 30.00 \times 1.00 \times 0.60 + 1.50 \times 0.60 = 75.00 \, m^3 \] @Rs.1022.00/m³ = Rs.76674.00

TOTAL = Rs.21726.00

CIRCLE: PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE UNDER WEINIER IWMP 2010 - 2011

ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AT
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AT MAWTHAWPHET UNDER WEINIER IWMP 2010 - 2011 (BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MECHARAYA FOR THE YEAR 2007 – 08

1/3 (a) Earthwork in excavation to the proper level and grade including high depth soil and all hit and run works in excavation to the proper level and grade

\[ 1 \times 20.00 \times 1.00 \times 0.80 = 16.00 \text{ m}^3 \]

@Rs. 46.00/m3

……… Rs. 736.00

2/21 (a) Providing regular stone Masonry wall with hammer dressed or blunt dressed stones of heavy section etc. complete as directed

\[ 1 \times 20.00 \times 0.60 + 1.00 \times 1.30 = 20.80 \text{ m}^3 \]

@Rs. 1022.00/m3

………………………………. Rs. 33521.60

TOTAL = Rs. 36729.60

Say = Rs. 36730.00

(Rupees Thirty Six Thousand Seven Hundred Thirty) only

© PWD (ROADS), MECHARAYA FOR THE YEAR 2007 – 08
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AT MAWTHAWPHET UNDER WEINIER IWMP 2010 - 2011

(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

1/3 (a) Earthwork in excavation to the proper level and grade including high level dressing as directed and removal of spalls up to 30 m lead and all till

<table>
<thead>
<tr>
<th>Description</th>
<th>Volume (m³)</th>
<th>Rate (Rs./m³)</th>
<th>Amount (Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Earthwork</td>
<td>53.63</td>
<td>46.00</td>
<td>2447.80</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td>2447.80</td>
</tr>
</tbody>
</table>

2/21 (a) Providing regular stone masonry wall with hammer dressed or blunt dressed stones of heavy section complete as directed

<table>
<thead>
<tr>
<th>Description</th>
<th>Volume (m³)</th>
<th>Rate (Rs./m³)</th>
<th>Amount (Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Masonry</td>
<td>35.63</td>
<td>618.00</td>
<td>22104.54</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td>22104.54</td>
</tr>
</tbody>
</table>

3/22 Providing regular stone masonry wall with hammer dressed or blunt dressed stones of heavy section complete as directed

<table>
<thead>
<tr>
<th>Description</th>
<th>Volume (m³)</th>
<th>Rate (Rs./m³)</th>
<th>Amount (Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Masonry</td>
<td>18.00</td>
<td>1022.00</td>
<td>18404.00</td>
</tr>
<tr>
<td>Masonry</td>
<td>35.63</td>
<td>1022.00</td>
<td>36804.36</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td>55208.36</td>
</tr>
</tbody>
</table>

TOTAL = Rs. 59346.00

Say = Rs. 59346.00

(Rupees Fifty Nine Thousand Three Hundred Forty Six) only

CIRCLE, PWD (ROADS), MECHHALAYA FOR THE YEAR 2007 - 08
BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, UNDER WEINIER IWMP 2010 - 2011
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AT
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AT MAWTHAWPET UNDER WEINIER IWMP 2010 - 2011  
(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08)

1/3

(a) Earthwork in excavation to the proper level and grade including high shoulder and ditches and earthwork in excavation to the proper level and grade

1 x 27.00 x 1.00 x 0.80 = 21.60 m³

@Rs.46.00/m³

Rs.993.60

2/21

(a) Providing regular stone masonry with hammer dressed or blunt chisel dressed stone of heavy section etc complete

1 x 27.00 x 1.00 x 0.20 = 5.40 m³

@Rs.618.00/m³

Rs.3337.20

3/22

(a) Providing regular stone masonry with hammer dressed or blunt chisel dressed stones of heavy section etc complete

1 x 27.00 x 1.20 x 0.60

1 x 27.00 x 0.60 x 1.50

2

@Rs.1022.00/m³

= 16.20 m³

= 32.40 m³

= 48.60 m³

Rs.49669.20

TOTAL = Rs.54000.00

(Rupees Fifty Four Thousand) only
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AT MAWTHAWPET UNDER WEINIER IWMP 2010 - 2011 (BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

1/3 (a) Earthwork in excavation to the proper level and grade including high dressing as directed and removal of spoils up to 30m lead and all lift.

<table>
<thead>
<tr>
<th>Item</th>
<th>Volume</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 x 25.00 x 1.00 x 0.80 = 20.00 m³</td>
<td>@ Rs. 46.00/m³</td>
<td></td>
<td>Rs. 920.00</td>
</tr>
<tr>
<td>2/21 (a) Providing regular stone Masonry wall with hammer dressed or blunt dressed stones of heavy section etc. complete as directed.</td>
<td>1 x 25.00 x 1.00 x 0.20 = 5.00 m³</td>
<td>@ Rs. 618.00/m³</td>
<td>Rs. 3090.00</td>
</tr>
<tr>
<td>3/22 Providing regular stone Masonry wall with hammer dressed or blunt dressed stones of heavy section etc. complete as directed.</td>
<td>1 x 25.00 x 1.00 x 1.20 = 25.50 m³</td>
<td>@ Rs. 1022.00/m³</td>
<td>Rs. 41391.00</td>
</tr>
</tbody>
</table>

TOTAL = Rs. 45401.00

Say = Rs. 45400.00
(Rupees Forty Five Thousand Four Hundred) only
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AT MAWTAWPHET UNDER WEINIER IWMP 2010 - 2011
(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

1/3

(a) Earthwork in excavation to the proper level and grade including high dress as directed and removal of spoils up to 30m lead and all hill

\[ 28.80 \times 0.80 \times 1.20 \times 1.50 = 66.60 \text{ m}^3 \]

\[ 1 \times 30.00 \times 1.20 \times 0.80 + 1 \times 30.00 \times 1.20 \times 0.60 = 78.00 \text{ m}^3 \]

@Rs. 46.00/m3 …………………………………………. Rs.1324.80

2/21

(b) Providing regular stone masonry wall with hammer dressed or blunt dressed stones of heavy section complete

\[ 7.20 \times 0.20 \times 1.50 = 2.16 \text{ m}^3 \]

@Rs. 618.00/m3 …………………………………. Rs.4449.60

(c) Providing regular stone masonry with hammer dressed or blunt dressed stones of heavy section complete

\[ 21.60 \times 0.80 \times 1.20 = 25.92 \text{ m}^3 \]

\[ 1 \times 30.00 \times 1.20 \times 0.80 = 36.00 \text{ m}^3 \]

@Rs. 1022.00/m3 ………………………………. Rs.68065.20

TOTAL = Rs.73839.60

Say = Rs.73840.00

(Rupees Seventy Three Thousand Eight Hundred Forty) only

CIRCULAR PWD (ROADS), MEGRHALAYA FOR THE YEAR 2007 - 08
BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, UNDER WEINIER IWMP 2010 - 2011
EASTIMATE FOR CONSTRUCTION OF RETAINING WALL AT
## Estimate for Construction of Retaining Wall at Mawthawphet under Weiner IWMP 2010 - 2011 (Based as per Schedule of Rates for Roads, E&D under Western Circle, PWD (Roads), Meghalaya for the Year 2007-08)

<table>
<thead>
<tr>
<th>Description</th>
<th>Volume</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Earthwork in excavation to the proper level and grade dressing up to 30m lead</td>
<td>$26.24 \text{ m}^3$</td>
<td>Rs. 46.00/\text{m}^3</td>
<td>Rs. 1,198.88</td>
</tr>
<tr>
<td>Providing regular stone masonry wall with hammer dressed or blunt dressed stones of heavy section etc. complete</td>
<td>$9.60 \text{ m}^3$</td>
<td>Rs. 618.00/\text{m}^3</td>
<td>Rs. 5,888.80</td>
</tr>
<tr>
<td>Providing regular stone masonry wall with hammer dressed or blunt dressed stones of heavy section etc. complete</td>
<td>$3.20 \text{ m}^3$</td>
<td>Rs. 1,022.00/\text{m}^3</td>
<td>Rs. 3,267.20</td>
</tr>
</tbody>
</table>

**Total** = Rs. 6,554.88

Say = Rs. 6,555.00

(Rupees Six Thousand Five Hundred Fifty Five) only

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Project: PWDP (ROADS), Meghalaya for the Year 2007 - 08

Base as per Schedule of Rates for Roads, E&D under Western Circle, under Weiner IWMP 2010 - 2011

Estimate for Construction of Retaining Wall at Mawthawphet
ESTIMATE FOR CONSTRUCTION OF RETAINING WALL AT MAWTAWPHET UNDER WEINIER IWMP 2010 - 2011

(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

(d) in soft Rock

(i) 0.60m x 1.00m

Resection of side drains of 30cm x 30cm to bring it to

Resection of side drains of 30cm x 30cm to bring it to the standard size of 60cm x 60cm including dressing, dressing, removal of spoil upto 15m complete

Rupees Three Thousand Ten (only)

\[ \text{TOTAL} = \text{Rs.} \, 3010.00 \]

\[ 1 \times 70 \text{ Rm} = 70 \text{ Rm} \]

\[ \text{Rs.} \, 43.00/\text{m}^3 \]

\[ \text{Rs.} \, 3010.00 \]
ESTIMATE FOR CONSTRUCTION OF WATER HARVESTING STRUCTURE
AT SANGRIANG VILLAGE UNDER WEINIER IWMP 2010 – 2011

(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE,
PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

1/3(b) Earthwork in excavation for bridges and culvert complete as directed.

\[ 1 \times 26.00 \times 1.50 \times 1.00 = 39.00 \text{ m}^3 \]
\[ 1 \times 26.00 \times 2.00 \times 0.20 = 10.40 \text{ m}^3 \]
\[ = 49.40 \text{ m}^3 \]
\[ @ \text{Rs.103.00}\text{/-m}^3 \]
\[ \text{Rs.5088.20} \]

2/24 (a) Providing stone pitching with one man size boulder not less than 25 x 25 x 30cm including filling the interstices complete as directed.

\[ 1 \times 26.00 \times 1.50 \times 0.10 = 3.90 \text{ m}^3 \]
\[ 1 \times 26.00 \times 2.00 \times 0.10 = 5.20 \text{ m}^3 \]
\[ = 9.10 \text{ m}^3 \]
\[ @ \text{Rs.432/-m}^3 \]
\[ \text{Rs.3931.20} \]

3/25 Providing cement concrete work proportion 1:4:8 with hard broken stone aggregate 40mm, nominal size including necessary carriage of stone and sand complete as directed.

\[ 1 \times 26.00 \times 1.50 \times 0.10 = 3.90 \text{ m}^3 \]
\[ 1 \times 26.00 \times 2.00 \times 0.10 = 5.20 \text{ m}^3 \]
\[ = 9.10 \text{ m}^3 \]
\[ @ \text{Rs.2022 /m}^3 \]
\[ \text{Rs.18400.20} \]

4/26 Providing cement concrete work in proportion 1:3:6 complete as directed.

\[ 1 \times 26.00 \times 1.50 \times 0.80 = 31.20 \text{ m}^3 \]
\[ 1 \times 26.00 \times (0.50 + 1.50) \times 3.00 = 78.00 \text{ m}^3 \]
\[ \text{Less Lead Channel:} \]
\[ 1 \times 0.60 \times 0.50 \times 0.45 = (-) 0.14 \text{ m}^3 \]
\[ \text{Less notches/ Weirs:} \]
\[ 3 \times 0.60 \times 0.50 \times 0.20 = (-) 0.18 \text{ m}^3 \]
\[ = 108.88 \text{ m}^3 \]
\[ @ \text{Rs.2281/-m}^3 \]
\[ \text{Rs.248355.28} \]

4/25 Providing cement concrete work proportion 1:3:6 with necessary lining of stone and sand complete as directed.

\[ 1 \times 26.00 \times 1.50 \times 1.00 = 39.00 \text{ m}^3 \]
\[ @ \text{Rs.432/-m}^3 \]
\[ \text{Rs.16756.80} \]

3/24 (a) Providing stone pitching with one man size boulder not less than 50 x 50 x 75cm including filling the interstices complete as directed.

\[ 1 \times 26.00 \times 1.50 \times 1.00 = 39.00 \text{ m}^3 \]
\[ @ \text{Rs.103/-m}^3 \]
\[ \text{Rs.3939.00} \]

1/34 (b) Earthwork in excavation for bridges and culvert below the lower bed level including deepening and cutting out water complete as directed.

\[ 0 \times 0.60 \times 0.50 \times 0.45 = 0.14 \text{ m}^3 \]
\[ 0 \times 0.60 \times 0.50 \times 0.10 = 0.03 \text{ m}^3 \]
\[ = 0.17 \text{ m}^3 \]

\[ @ \text{Rs.2281/-m}^3 \]
\[ \text{Rs.385.04} \]
5/38 Providing shuttering with dressed planks not less than 25mm thick properly joined with battens proper level and removing the same after the concrete hardens complete as directed.

1 x 26.00 x 3.00 = 78.00 m²
1 x 26.00 x 3.20 = 83.20 m²
= 161.20 m²
@ Rs. 281/-m²………………………………… Rs.45297.20

6/39(a) Providing 12mm thick cement plaster including clearing the surface, curing carriage of sand within 200m, complete as directed.

1 x 26.00 x 0.50 = 13.00 m²
2 x 0.50 x 0.45 = 0.45 m²
6 x 0.50 x 0.20 = 0.60 m²
1 x 26.00 x 2.00 = 52.00 m²
= 66.05 m²
@ Rs. 86/-m²…………………………………… Rs.5680.30

TOTAL Rs.326752.38
SAY, Rs.326752.00
(Rupees Three Lakhs Twenty Six Thousand Seven Hundred Fifty Two) only
ESTIMATE FOR CONSTRUCTION OF WATER HARVESTING STRUCTURE
AT SANGRIANG VILLAGE UNDER WEINIER IWMP 2010 – 2011

(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE,
PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

1/3 (b) Earthwork in excavation for bridges and culverts below the
lowest bed level including dewatering and bailing out water etc.
complete as directed.

\[
\begin{align*}
1 x 25.00 \times 1.40 \times 0.90 & = 31.50 \text{ m}^3 \\
2 x 25.00 \times 2.00 \times 0.20 & = 20.00 \text{ m}^3 \\
\hline
\text{Total} & = 51.50 \text{ m}^3
\end{align*}
\]

@ Rs.46.00/- m\(^3\)………………………………… Rs.2369.00

2/24 (a) Providing stone pitching with one man size boulder not
less than 25 x 25 x 30 cm including filling the interstices
complete as directed.

\[
\begin{align*}
2 x 25.00 \times 2.00 \times 0.10 & = 10.00 \text{ m}^3
\end{align*}
\]

@ Rs.432/- m\(^3\)…………………………………… Rs.4320.00

3/25 Providing cement concrete work proportion 1:4:8 with
hard broken stone aggregates 40 mm, nominal size including
necessary carriage of stone and sand complete as directed.

\[
\begin{align*}
1 x 25.00 \times 1.40 \times 0.10 & = 3.50 \text{ m}^3 \\
2 x 25.00 \times 2.00 \times 0.10 & = 10.00 \text{ m}^3 \\
\hline
\text{Total} & = 13.50 \text{ m}^3
\end{align*}
\]

@ Rs.2022 / m\(^3\) ………………............................ Rs.27297.00

4/26 Providing cement concrete work in proportion 1:3:6 with
hard broken stone aggregates 40 mm downgraded including
necessary local enrichment of stone and sand complete as directed.

\[
\begin{align*}
4 x 0.60 \times 0.50 \times 0.20 & = 0.36 \text{ m}^3 \\
\hline
\text{Total} & = 86.66 \text{ m}^3
\end{align*}
\]

@ Rs.460.00/- m\(^3\)………………………………… Rs.40096.00

(d) Joint trimming block medium shade.

\[
\begin{align*}
2 x 25.00 \times 2.00 \times 0.09 & = 4.32 \text{ m}^3 \\
2 x 25.00 \times 1.40 \times 0.09 & = 3.96 \text{ m}^3 \\
\hline
\text{Total} & = 8.28 \text{ m}^3
\end{align*}
\]

2/24 (a) Providing some pitching with one man size boulder not
less than 30 x 30 x 30 cm complete as directed.

\[
\begin{align*}
1 x 25.00 \times 1.40 \times 0.80 & = 28.00 \text{ m}^3 \\
2 x 25.00 \times (0.50 + 1.40) \times 2.50 & = 59.38 \text{ m}^3 \\
\hline
\text{Total} & = 87.38 \text{ m}^3
\end{align*}
\]
(b) Providing shuttering with dressed planks not less than 25mm thick properly joined with battens proper level and removing the same after the concrete hardens complete as directed.

<table>
<thead>
<tr>
<th>Calculation</th>
<th>Area (m²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 x 25.00 x 2.50</td>
<td>78.00</td>
</tr>
<tr>
<td>1 x 25.00 x 2.60</td>
<td>83.20</td>
</tr>
<tr>
<td>8 x 0.50 x 0.30</td>
<td>1.20</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>128.70 m²</strong></td>
</tr>
</tbody>
</table>

@ Rs. 281/- m²

Rs. 36,091.70

---

(a) Providing 12mm thick cement plaster including clearing the surface, curing carriage of sand within 200m, complete as directed.

<table>
<thead>
<tr>
<th>Calculation</th>
<th>Area (m²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 x 25.00 x 0.50</td>
<td>12.50</td>
</tr>
<tr>
<td>8 x 0.50 x 0.30</td>
<td>1.20</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>13.70 m²</strong></td>
</tr>
</tbody>
</table>

@ Rs. 86/- m²

Rs. 1,178.20

TOTAL Rs. 26,900.36

SAY, Rs. 26,900.00

(Rupees Two Lakhs Sixty Nine Thousand) only
ESTIMATE FOR CONSTRUCTION OF WATER HARVESTING STRUCTURE AT SANGRIANG VILLAGE UNDER WEIWER IWM 2010 – 2011

(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

1/3(b) Earthwork in excavation for bridges and culvert below the lowest bed level including dewatering and bailing out water etc. complete as directed.

1 x 22.00 x 1.40 x 0.90 = 27.72 m³
2 x 22.00 x 2.00 x 0.20 = 17.60 m³
= 45.32 m³
@ Rs.46.00/-m³………………………………… Rs.2084.72

2/24 (a) Providing stone pitching with one man size boulder not less than 25 x 25 x 30cm including filling the interstices with spoil and carriage of stone within a distance of 200m complete as directed.

2 x 22.00 x 2.00 x 0.10 = 8.80 m³
@ Rs.432/-m³…………………………………… Rs.3801.60

3/25 Providing cement concrete work proportion 1:4:8 with hard broken stone aggregate 40mm, nominal size including necessary carriage of stone and sand etc. completed as directed.

1 x 22.00 x 1.40 x 0.10 = 3.08 m³
2 x 22.00 x 2.00 x 0.10 = 8.80 m³
= 11.88 m³
@ Rs. 2022 / m³ ………………............................ Rs.24021.36

4/26 Providing cement concrete work in proportion 1:3:6 with hard broken stone aggregates 40mm downgraded including necessary local carriage of stone and sand etc. Complete as directed.

1 x 22.00 x 1.40 x 0.80 = 24.64 m³
1 x 22.00 x (0.50+1.40) x 2.00 = 41.80 m³
Less notches/ Weirs:
4 x 0.60 x 0.50 x 0.30 = (-) 0.36 m³
= 66.08 m³
@ Rs.4600/-m³………………………………… Rs.304700.80

RS. 150728.48

RS. 204021.36

RS. 3801.60

RS. 24021.36

RS. 304700.80
5/38 Providing shuttering with dressed planks not less than 25mm thick properly joined with battens proper level and removing the same after the concrete hardens complete as directed.

1 x 22.00 x 2.00 = 44.00 m\(^2\)
1 x 22.00 x 2.10 = 46.20 m\(^2\)
8 x 0.50 x 0.30 = 1.20 m\(^2\)

= 91.40 m\(^2\)

@ Rs. 281/-m\(^2\)………………………………… Rs.25683.40

6/39(a) Providing 12mm thick cement plaster including clearing the surface, curing carriage of sand within 200m, complete as directed.

1 x 22.00 x 0.50 = 11.00 m\(^2\)
8 x 0.50 x 0.30 = 1.20 m\(^2\)

= 12.20 m\(^2\)

@ Rs. 86/-m\(^2\)…………………………………… Rs.1049.20

TOTAL Rs.207368.76

SAY, Rs.207369.00
(Rupees Two Lakhs Seven Thousand Three Hundred Sixty Nine) only
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
<th>Rate (Rs/m³)</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/3(b)</td>
<td>Earthwork in excavation for bridges and culvert below the lowest bed level including dewatering and bailing out water etc.</td>
<td>48.40 m³</td>
<td>46.00</td>
<td>2226.40</td>
</tr>
<tr>
<td>2/24(a)</td>
<td>Providing stone pitching with one man size boulder not less than 25 x 25 x 30 cm including filling the interstices with spoil and carriage of stone within a distance of 200 m complete as directed</td>
<td>8.00 m³</td>
<td>432.00</td>
<td>3456.00</td>
</tr>
<tr>
<td>3/25</td>
<td>Providing cement concrete work proportion 1:4:8</td>
<td>11.60 m³</td>
<td>2022.00</td>
<td>23455.20</td>
</tr>
<tr>
<td>4/26</td>
<td>Providing cement concrete work in proportion 1:3:6 downgraded</td>
<td>86.66 m³</td>
<td>2281.00</td>
<td>197671.46</td>
</tr>
</tbody>
</table>

**Additional Notes:**
- Item 1/3(b) includes necessary local materials of stone and sand etc. Complete as directed.
- Item 2/24(a) involves necessary casting of stone and sand etc. Complete as directed.
- Item 3/25 includes necessary casting of stone and sand etc. Complete as directed.
- Item 4/26 includes necessary casting of stone and sand etc. Complete as directed.
- Earthwork excavation for rigid frame and culverts below the lowest bed level.
Providing shuttering with dressed planks not less than 25mm thick properly joined with battens proper level and removing the same after the concrete hardens complete as directed.

\[
\begin{align*}
&1 \times 20.00 \times 2.50 = 50.00 \text{ m}^2 \\
&1 \times 20.00 \times 2.53 = 50.60 \text{ m}^2 \\
&8 \times 0.50 \times 0.30 = 1.20 \text{ m}^2 \\
&= 101.50 \text{ m}^2
\end{align*}
\]

@ Rs. 281/-m²  
Rs. 28605.80

Providing 12mm thick cement plaster including clearing the surface, curing carriage of sand within 200m, complete as directed.

\[
\begin{align*}
&1 \times 20.00 \times 0.50 = 10.00 \text{ m}^2 \\
&8 \times 0.50 \times 0.30 = 1.20 \text{ m}^2 \\
&2 \times 20.00 \times 2.00 = 80.00 \text{ m}^2 \\
&= 91.20 \text{ m}^2
\end{align*}
\]

@ Rs. 86/-m²  
Rs. 7843.20

\[
\begin{align*}
&\text{TOTAL} \quad \text{Rs. 239802.86} \\
&\text{(Rupees Two Lakhs Thirty Nine Thousand Eight Hundred Three) only}
\end{align*}
\]
ESTIMATE FOR CONSTRUCTION OF WATER HARVESTING STRUCTURE

AT SANGRIANG VILLAGE UNDER WEINIER IWMP 2010 – 2011

(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

1/3(b) Earthwork in excavation for bridges and culvert complete as directed.

- Soft/ Laminated Rock/ medium shale.

\[ 1 \times 25.00 \times 1.60 \times 1.10 = 44.00 \text{ m}^3 \]
\[ 1 \times 25.00 \times 2.00 \times 0.20 = 10.00 \text{ m}^3 \]
\[ = 54.00 \text{ m}^3 \]
@ Rs.103.00/-m³ ……………… Rs.5562.00

2/24 (a) Providing stone pitching with one man size boulder not less than 25 x 25 x 30 cm including filling the interstices with spoil and carriage of stone within a distance of 200 m complete as directed.

\[ 1 \times 25.00 \times 1.60 \times 0.10 = 4.00 \text{ m}^3 \]
\[ 1 \times 25.00 \times 2.00 \times 0.10 = 5.00 \text{ m}^3 \]
\[ = 9.00 \text{ m}^3 \]
@ Rs.432/-m³ ………………… Rs.3888.00

3/25 Providing cement concrete work proportion 1:4:8 with hard broken stone aggregate 40 mm, nominal size complete as directed.

\[ 1 \times 25.00 \times 1.60 \times 0.10 = 4.00 \text{ m}^3 \]
\[ 1 \times 25.00 \times 2.00 \times 0.10 = 5.00 \text{ m}^3 \]
\[ = 9.00 \text{ m}^3 \]
@ Rs. 2022 / m³ ………………............................ Rs.18198.00

4/26 Providing cement concrete work in proportion 1:3:6 with hard broken stone aggregate 40 mm downgraded and necessary local carriage of stone and sand complete as directed.

\[ 1 \times 25.00 \times 0.90 = 22.50 \text{ m}^2 \]
\[ 1 \times 25.00 \times (0.50+1.60) \times 2.50 = 91.87 \text{ m}^2 \]
\[ Less Channels: \]
\[ 2 \times 0.60 \times 0.50 \times 0.45 = (-) 0.27 \text{ m}^3 \]
\[ Less Notches: \]
\[ 2 \times 0.60 \times 0.50 \times 0.20 = (-) 0.12 \text{ m}^2 \]
\[ = 113.98 \text{ m}^2 \]
@ Rs.2281/-m² ……………………… Rs.259988.38

P&W (ROADS), MECHHALYA FOR THE YEAR 2007 – 08

ESTIMATE FOR CONSTRUCTION OF WATER HARVESTING STRUCTURE

AT SANGRIANG VILLAGE UNDER WEINIER IWMP 2010 – 2011
5/38 Providing shuttering with dressed planks not less than 25mm thick properly joined with battens proper level and removing the same after the concrete hardens complete as directed.

<table>
<thead>
<tr>
<th>Description</th>
<th>Area (m²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 x 25.00 x 3.50</td>
<td>87.50</td>
</tr>
<tr>
<td>1 x 25.00 x 3.80</td>
<td>9.50</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>97.00</strong></td>
</tr>
</tbody>
</table>

@ Rs. 281/-m²                                      **Rs. 27,257.00**

6/39(a) Providing 12mm thick cement plaster including clearing the surface, curing carriage of sand within 200m, complete as directed.

(a) Over stones and cement concrete work

<table>
<thead>
<tr>
<th>Description</th>
<th>Area (m²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 x 25.00 x 0.50</td>
<td>12.50</td>
</tr>
<tr>
<td>4 x 0.50 x 0.45</td>
<td>0.90</td>
</tr>
<tr>
<td>4 x 0.50 x 0.20</td>
<td>0.40</td>
</tr>
<tr>
<td>1 x 25.00 x 2.00</td>
<td>50.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>63.80</strong></td>
</tr>
</tbody>
</table>

@ Rs. 86/-m²                                      **Rs. 5,486.80**

TOTAL Rs. 320,380.18

SAY, Rs. 320,380.00

(Rupees Three Lakhs Twenty Thousand Three Hundred Eighty) only
ESTIMATE FOR CONSTRUCTION OF WATER HARVESTING POND
AT MAWTHAR VILLAGE UNDER WEINIER IWMP 2010 – 2011
(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE,
PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

1/3(b) Earthwork in excavation for bridges and culvert
below the lowest bed level including dewatering
and bailing out water etc. complete as directed.

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 x 20.00 x 1.50 x 1.00 = 30.00 m³</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 x 20.00 x 2.00 x 0.20 = 8.00 m³</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 x 20.00 x 0.50 x 0.20 = 2.00 m³</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>= 40.00 m³</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>@ Rs.46.00/-m³</td>
<td></td>
<td></td>
<td>Rs.1840.00</td>
</tr>
</tbody>
</table>

2/24 (a) Providing stone pitching with one man size boulder not less than 25 x 25 x 30 cm including fillings of interstices
with spoil and carriage of stone within a distance of 200m.

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 x 20.00 x 1.50 x 0.10 = 3.00 m³</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 x 20.00 x 2.00 x 0.10 = 4.00 m³</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>= 7.00 m³</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>@ Rs.432/-m³</td>
<td></td>
<td></td>
<td>Rs.3024.00</td>
</tr>
</tbody>
</table>

3/25 Providing cement concrete work proportion 1:4:8 with hard broken stone aggregate 40mm, nominal size including
necessary carriage of stone and sand etc. completed as directed.

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 x 20.00 x 1.50 x 0.10 = 3.00 m³</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 x 20.00 x 2.00 x 0.10 = 4.00 m³</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>= 7.00 m³</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>@ Rs.2022/-m³</td>
<td></td>
<td></td>
<td>Rs.14154.00</td>
</tr>
</tbody>
</table>

4/26 Providing cement concrete work in proportion 1:3:6 with hard broken stone aggregates 40mm downgraded including
necessary local earthworks and earthworks below the earthworks
below the ground level including dewatering and bailing out water etc.

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 x 20.00 x 1.50 x 0.80 = 24.00 m³</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 x 20.00 x (0.50+1.50) x 3.00 = 60.00 m³</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>= 84.00 m³</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>@ Rs.2281/-m³</td>
<td></td>
<td></td>
<td>Rs.191604.00</td>
</tr>
</tbody>
</table>

PMD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08
ESTIMATE FOR CONSTRUCTION OF WATER HARVESTING POND

(1/3) Earthwork in excavation for bridges and culvert below the
lowest bed level including dewatering and bailing out water etc.
Providing shuttering with dressed planks not less than 25mm thick properly joined with battens proper level and removing the same after the concrete hardens complete as directed.

\[
\begin{align*}
\text{Area} &= 1 \times 20.00 \times 3.00 = 60.00 \text{ m}^2 \\
\text{Area} &= 1 \times 20.00 \times 3.10 = 62.00 \text{ m}^2 \\
\text{Area} &= 2 \times 0.60 \times 0.50 = 0.60 \text{ m}^2 \\
\text{Area} &= 4 \times 0.60 \times 0.20 = 0.48 \text{ m}^2 \\
\text{Total Area} &= 123.08 \text{ m}^2
\end{align*}
\]

\[
\text{Rate} \times \text{Total Area} = \text{Cost} \\
\text{Rs. 281/-} \times 123.08 \text{ m}^2 = \text{Rs. 34585.48}
\]

Providing 12mm thick cement plaster including clearing the surface, curing carriage of sand within 200m, complete as directed.

\[
\begin{align*}
\text{Area} &= 1 \times 20.00 \times 0.50 = 10.00 \text{ m}^2 \\
\text{Area} &= 2 \times 20.00 \times 2.00 = 40.00 \text{ m}^2 \\
\text{Total Area} &= 50.00 \text{ m}^2
\end{align*}
\]

\[
\text{Rate} \times \text{Total Area} = \text{Cost} \\
\text{Rs. 86/-} \times 50.00 \text{ m}^2 = \text{Rs. 4300.00}
\]

\[
\text{Total Cost} = \text{Rs. 34585.48} + \text{Rs. 4300.00} = \text{Rs. 249507.48}
\]

\[
\text{Grand Total} = \text{Rs. 249507.48}
\]

\[
\text{SAY, Rs. 249507.00 (Rupees Two Lakhs Forty Nine Thousand Five Hundred Seven) only}
\]

\[
\text{Rate} \times \text{Total Area} = \text{Cost} \\
\text{Rs. 281/-} \times 123.08 \text{ m}^2 = \text{Rs. 34585.48}
\]

Providing 12mm thick cement plaster including clearing the surface, curing carriage of sand within 200m, complete as directed.

\[
\begin{align*}
\text{Area} &= 1 \times 20.00 \times 0.50 = 10.00 \text{ m}^2 \\
\text{Area} &= 2 \times 0.60 \times 0.20 = 0.48 \text{ m}^2 \\
\text{Total Area} &= 12.48 \text{ m}^2
\end{align*}
\]

\[
\text{Rate} \times \text{Total Area} = \text{Cost} \\
\text{Rs. 86/-} \times 12.48 \text{ m}^2 = \text{Rs. 1082.08}
\]
ESTIMATE FOR CONSTRUCTION OF WATER HARVESTING POND
AT SANGRIANG VILLAGE UNDER WEINIER IWMP 2010 – 2011 (BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

1/3(b) Earthwork in excavation for bridges and culvert below the lowest bed level including dewatering and bailing out water etc. complete as directed.

- Soft/ Laminated Rock/ medium shale.

1 x 25.00 x 5.00 x 1.00 = 125.00 m³
2 x 25.00 x 2.00 x 0.20 = 20.00 m³
= 145.00 m³

@ Rs.46.00/-m³……………………………………… Rs.6670.00

2/24 (a) Providing stone pitching with one man size boulder not less than 25 x 25 x 30cm including filling the interstices with spoil and carriage of stone within a distance of 200m complete as directed.

1 x 25.00 x 2.00 x 0.10 = 10.00 m³

@ Rs.432/-m3…………………………………… Rs.4320.00

3/25 Providing cement concrete work proportion 1:4:8 with hard broken stone aggregate including necessary carriage of stone and sand etc. complete as directed.

1 x 25.00 x 5.00 x 0.10 = 12.50 m³
1 x 25.00 x 2.00 x 0.10 = 10.00 m³

= 22.50 m³

@ Rs. 2022 / m³ ………………............................ Rs.45495.00

4/26 Providing cement concrete work in proportion 1:3:6 with hard broken stone aggregates 40mm downgraded including necessary land leveling of stone and sand etc. Complete

1 x 25.00 x 5.00 x 0.90 = 112.50 m²
1 x 25.00 x (0.30+5.00) x 4.50 = 450.00 m²

Less Notches/ Weirs/ Less Channels:
4 x 0.60 x 3.00 x 0.30 = (-) 2.16 m³
4 x 0.60 x 3.00 x 0.60 = (-) 2.16 m³

= 558.18 m²

@ Rs.2281/-m²…………………………………” Rs.1273208.59

Rs.47495.00

Rs.4320.00

Rs.45495.00

Rs.6670.00
5/38 Providing shuttering with dressed planks not less than 25mm thick properly joined with battens proper level and removing the same after the concrete hardens complete as directed.

<table>
<thead>
<tr>
<th>Description</th>
<th>Area (m²)</th>
</tr>
</thead>
<tbody>
<tr>
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<td>112.50</td>
</tr>
<tr>
<td>1 x 25.00 x 4.60</td>
<td>115.00</td>
</tr>
<tr>
<td>8 x 3.00 x 0.30</td>
<td>7.20</td>
</tr>
<tr>
<td>4 x 3.00 x 0.60</td>
<td>7.20</td>
</tr>
<tr>
<td>1 x 25.00 x 3.00</td>
<td>75.00</td>
</tr>
<tr>
<td><strong>Total Area</strong></td>
<td><strong>241.90</strong></td>
</tr>
<tr>
<td>@ Rs. 281/-m²</td>
<td><strong>Rs. 67,973.90</strong></td>
</tr>
</tbody>
</table>

6/39(a) Providing 12mm thick cement plaster including clearing the surface, curing carriage of sand within 200m, complete as directed.

<table>
<thead>
<tr>
<th>Description</th>
<th>Area (m²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 x 25.00 x 3.00</td>
<td>75.00</td>
</tr>
<tr>
<td>8 x 3.00 x 0.30</td>
<td>7.20</td>
</tr>
<tr>
<td>4 x 3.00 x 0.60</td>
<td>7.20</td>
</tr>
<tr>
<td>2 x 25.00 x 2.00</td>
<td>100.00</td>
</tr>
<tr>
<td><strong>Total Area</strong></td>
<td><strong>189.40</strong></td>
</tr>
<tr>
<td>@ Rs. 86/-m²</td>
<td><strong>Rs. 16,285.58</strong></td>
</tr>
</tbody>
</table>

**TOTAL** Rs. 141,395.88

SAY, Rs. 141,395.88

(Rupees Fourteen Thousand Nine Hundred Fifty Six) only
ESTIMATE FOR CONSTRUCTION OF WATER HARVESTING POND AT SANGRIANG VILLAGE UNDER WEINIER IWM 2010 – 2011

(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

1/3(b) Earthwork in excavation for bridges and culvert below the lowest bed level including dewatering and bailing out water etc. complete as directed.

\[
\begin{align*}
&1 \times 22.00 \times 1.80 \times 0.90 = 35.64 \text{ m}^3 \\
&2 \times 22.00 \times 2.00 \times 0.20 = 17.60 \text{ m}^3 \\
&= 53.24 \text{ m}^3 \\
&@ Rs. 46.00/- \text{m}^3 \rightarrow Rs. 2449.04
\end{align*}
\]

2/24 (a) Providing stone pitching with one man size boulder not less than 25 x 25 x 30cm including filling the interstices with spoil and carriage of stone within a distance of 200m complete as directed.

\[
\begin{align*}
&2 \times 22.00 \times 2.00 \times 0.10 = 8.80 \text{ m}^3 \\
&@ Rs. 432/- \text{m}^3 \rightarrow Rs. 3801.60
\end{align*}
\]

3/25 Providing cement concrete work proportion 1:4:8 with hard broken stone aggregate 40mm, nominal size including necessary carriage of stone and sand etc. completed as directed.

\[
\begin{align*}
&1 \times 22.00 \times 1.80 \times 0.10 = 3.96 \text{ m}^3 \\
&2 \times 22.00 \times 2.00 \times 0.10 = 8.80 \text{ m}^3 \\
&= 13.76 \text{ m}^3 \\
&@ Rs. 2022 / \text{m}^3 \rightarrow Rs. 25800.72
\end{align*}
\]

4/26 Providing cement concrete work in proportion 1:3:6 with hard broken stone aggregates 40mm downgraded including necessary local carriage of stone and sand etc. complete as directed.

\[
\begin{align*}
&1 \times 22.00 \times 1.80 \times 0.80 = 31.68 \text{ m}^3 \\
&1 \times 22.00 \times (0.50+1.80) \times 2.50 = 63.25 \text{ m}^3 \\
&2\left[4 \times 0.60 \times 0.50 \times 0.30 = (-) 0.36 \text{ m}^3\right] \\
&= 94.57 \text{ m}^3 \\
&@ Rs. 2281/- \text{m}^3 \rightarrow Rs. 215714.17
\end{align*}
\]

4/25 Providing general concrete work proportion 1:3:5 with necessary local carriage of stone and sand etc.

\[
\begin{align*}
&8.80 \text{ m}^3 \\
&@ Rs. 4372/- \text{m}^3 \rightarrow Rs. 3801.60
\end{align*}
\]

2/24 (a) Providing stone pitching with one man size boulder not less than 25 x 25 x 30cm complete as directed.

\[
\begin{align*}
&2 \times 22.00 \times 0.20 \times 0.10 = 0.40 \text{ m}^3 \\
&\rightarrow Rs. 46.00/\text{m}^3
\end{align*}
\]

1/39(b) Earthwork in excavation for bridges and culvert below the lowest bed level including dewatering and bailing out water etc. complete as directed.

\[
\begin{align*}
&8.09 \text{ m}^3 \\
&@ Rs. 3440/- \text{m}^3 \rightarrow Rs. 2824.06
\end{align*}
\]

PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

ESTIMATE FOR CONSTRUCTION OF WATER HARVESTING POND AT SANGRIANG VILLAGE UNDER WEINIER IWM 2010 – 2011
Providing shuttering with dressed planks not less than 25mm thick properly joined with battens proper level and removing the same after the concrete hardens complete as directed.

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
<th>Unit</th>
<th>Calculation</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>22.00 x 2.50</td>
<td>=</td>
<td>= 55.00 m²</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>22.00 x 2.53</td>
<td>=</td>
<td>= 55.66 m²</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>0.50 x 0.30</td>
<td>=</td>
<td>= 1.20 m²</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>=</td>
<td>= 111.86 m²</td>
</tr>
</tbody>
</table>

Providing 12mm thick cement plaster including clearing the surface, curing carriage of sand within 200m, complete as directed.

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
<th>Unit</th>
<th>Calculation</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a) over stones and cement concrete work</td>
<td>1</td>
<td>22.00 x 0.50</td>
<td>=</td>
<td>= 11.00 m²</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>22.00 x 2.00</td>
<td>=</td>
<td>= 88.00 m²</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>0.50 x 0.30</td>
<td>=</td>
<td>= 1.20 m²</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>=</td>
<td>= 100.20 m²</td>
</tr>
</tbody>
</table>

Providing 12mm thick cement plaster including:

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
<th>Unit</th>
<th>Calculation</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>18.00 x 2.50</td>
<td>=</td>
<td>= 45.00 m²</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>18.00 x 2.53</td>
<td>=</td>
<td>= 45.66 m²</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>30.00 x 2.50</td>
<td>=</td>
<td>= 75.00 m²</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>30.00 x 2.53</td>
<td>=</td>
<td>= 75.66 m²</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>=</td>
<td>= 195.66 m²</td>
</tr>
</tbody>
</table>

Providing shuttering with dressed planks not less than 25mm thick.
ESTIMATE FOR CONSTRUCTION OF WATER HARVESTING STRUCTURE
AT SANGRIANG VILLAGE UNDER WEINIER IWMP 2010 – 2011

(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE,
PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08

1/3(b) Earthwork in excavation for bridges and culvert complete as directed.

\[
\begin{align*}
&1 \times 15.00 \times 1.40 \times 0.90 = 18.90 \text{ m}^3 \\
&2 \times 15.00 \times 2.00 \times 0.20 = 12.00 \text{ m}^3 \\
&= 30.90 \text{ m}^3
\end{align*}
\]

\[\text{@ Rs.46/-m}^3 \quad \text{………………………………… Rs.1421.40}\]

2/24 (a) Providing stone pitching with one man size boulder not less than 25 x 25 x 30 cm including filling the interstices with spoil and carrying of stone within a distance of 200 m complete as directed.

\[
\begin{align*}
&2 \times 15.00 \times 2.00 \times 0.10 = 6.00 \text{ m}^3 \\
&\text{@ Rs.432/-m}^3 \quad \text{………………………………… Rs.2592.00}
\end{align*}
\]

3/25 Providing cement concrete work with hard broken stone aggregate 40mm, nominal size including necessary carriage of stone and sand complete as directed.

\[
\begin{align*}
&1 \times 15.00 \times 1.40 \times 0.10 = 2.10 \text{ m}^3 \\
&2 \times 15.00 \times 2.00 \times 0.10 = 6.00 \text{ m}^3 \\
&= 8.10 \text{ m}^3
\end{align*}
\]

\[\text{@ Rs.2022 / m}^3 \quad \text{………………………………… Rs.16378.20}\]

4/26 Providing cement concrete work in proportion 1:3:6 with hard broken stone aggregate downgraded including necessary local carriage of stone and sand complete as directed.

\[
\begin{align*}
&1 \times 15.00 \times 1.40 \times 0.80 = 16.80 \text{ m}^3 \\
&1 \times (15.00 \times 1.90 + 2.50) \times 2.50 = 35.63 \text{ m}^3 \\
&= 52.07 \text{ m}^3
\end{align*}
\]

\[\text{Less Lead Channel:} \quad 1 \times 0.60 \times 0.50 \times 0.60 = (-) 0.18 \text{ m}^3
\]

\[\text{Less notches/ Weirs:} \quad 2 \times 0.60 \times 0.50 \times 0.30 = (-) 0.18 \text{ m}^3
\]

\[\text{= 52.07 m}^3 \]

\[\text{@ Rs.2281/-m}^3 \quad \text{………………………………… Rs.118771.67}\]

PwD (ROADS), MEchalAYA FOR THE YEAR 2007 - 08

PwD AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE,
AT SANGRIANG VILLAGE UNDER WEINIER IWMP 2010 – 2011

ESTIMATE FOR CONSTRUCTION OF WATER HARVESTING STRUCTURE
Providing shuttering with dressed planks not less than 25mm thick properly joined with battens proper level and removing the same after the concrete hardens complete as directed.

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
<th>Unit</th>
<th>Calculation</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 x</td>
<td>m²</td>
<td>15.00 x 2.50</td>
<td>37.50 m²</td>
</tr>
<tr>
<td></td>
<td>1 x</td>
<td>m²</td>
<td>15.00 x 2.60</td>
<td>39.00 m²</td>
</tr>
<tr>
<td></td>
<td>4 x</td>
<td>m²</td>
<td>0.50 x 0.30</td>
<td>0.60 m²</td>
</tr>
<tr>
<td></td>
<td>2 x</td>
<td>m²</td>
<td>0.60 x 0.50</td>
<td>0.60 m²</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>77.70 m²</td>
</tr>
<tr>
<td></td>
<td>@ Rs. 281/m²</td>
<td></td>
<td></td>
<td>Rs. 21,833.70</td>
</tr>
</tbody>
</table>

(a) Providing 12mm thick cement plaster including clearing the surface, curing, carriage of sand within 200m, complete as directed.

Providing 1cm thick cement plaster including cleaning the surface, curing, and carriage of sand within 200m, complete as directed.

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
<th>Unit</th>
<th>Calculation</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 x</td>
<td>m²</td>
<td>15.00 x 0.50</td>
<td>7.50 m²</td>
</tr>
<tr>
<td></td>
<td>4 x</td>
<td>m²</td>
<td>0.50 x 0.30</td>
<td>0.60 m²</td>
</tr>
<tr>
<td></td>
<td>2 x</td>
<td>m²</td>
<td>0.60 x 0.50</td>
<td>0.60 m²</td>
</tr>
<tr>
<td></td>
<td>2 x</td>
<td>m²</td>
<td>15.00 x 2.00</td>
<td>60.00 m²</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>68.70 m²</td>
</tr>
<tr>
<td></td>
<td>@ Rs. 86/m²</td>
<td></td>
<td></td>
<td>Rs. 5,908.20</td>
</tr>
</tbody>
</table>

TOTAL: Rs. 21,833.70

SAY, Rs. 21,833.70

Rs. 1,66,905.17

Rupees One lakh Sixty Six Thousand Nine Hundred Five (only)
ESTIMATE FOR CONSTRUCTION OF WATER HARVESTING STRUCTURE AT MAWTHAWPHET VILLAGE UNDER WEINIER IWMP 2010 – 2011

(BASED AS PER SCHEDULE OF RATES FOR ROADS, E&D UNDER WESTERN CIRCLE, PWD (ROADS), MEGHALAYA FOR THE YEAR 2007 – 08)

1/3(b) Earthwork in excavation for bridges and culvert below the lowest bed level including dewatering and bailing out water etc. complete as directed.

\[ \begin{align*}
1 \times 15.00 \times 1.40 \times 0.90 &= 18.90 \text{ m}^3 \\
2 \times 15.00 \times 2.00 \times 0.20 &= 12.00 \text{ m}^3 \\
= 30.90 \text{ m}^3 \\
\end{align*} \]

@ Rs.46/-m³……………………………….… Rs.1421.40

2/24 (a) Providing stone pitching with one man size boulder not less than 25 x 25 x 30 cm including filling the interstices with spoil and carriage of stone within a distance of 200 m complete as directed.

\[ \begin{align*}
2 \times 15.00 \times 2.00 \times 0.10 &= 6.00 \text{ m}^3 \\
1 \times 15.00 \times 1.40 \times 0.10 &= 2.10 \text{ m}^3 \\
= 8.10 \text{ m}^3 \\
\end{align*} \]

@ Rs.432/-m³…………………………………… Rs.2592.00

3/25 Providing cement concrete work proportion 1:4:8 with hard broken stone aggregate 40 mm, nominal size including necessary carriage of stone and sand etc. completed as directed.

\[ \begin{align*}
1 \times 15.00 \times 1.40 \times 0.10 &= 2.10 \text{ m}^3 \\
2 \times 15.00 \times 2.00 \times 0.10 &= 6.00 \text{ m}^3 \\
= 8.10 \text{ m}^3 \\
\end{align*} \]

@ Rs. 2022 / m³ ………………............................ Rs.16378.20

4/26 Providing cement concrete work in proportion 1:3:6 with hard broken stone aggregates 40 mm downgraded including necessary local carriage of stone and sand etc. complete as directed.

\[ \begin{align*}
1 \times 15.00 \times 1.40 \times 0.80 &= 16.80 \text{ m}^3 \\
1 \times 15.00 \times (0.50+1.40) \times 2.50 &= 35.63 \text{ m}^3 \\
\end{align*} \]

Less Lead Channel:

\[ \begin{align*}
1 \times 0.60 \times 0.50 \times 0.60 &= (-) 0.18 \text{ m}^3 \\
2 \times 0.60 \times 0.50 \times 0.30 &= (-) 0.18 \text{ m}^3 \\
\end{align*} \]

= 52.07 m³

@ Rs.2281/-m³………………………………… Rs.118771.67

\[ \begin{align*}
\text{Rs.1,187,716.72} \\
\text{Rs.2,193,782.00} \\
\text{Rs.4,327,200.00} \\
\text{Rs.6,915,400.00} \\
\end{align*} \]
Providing shuttering with dressed planks not less than 25mm thick properly joined with battens proper level and removing the same after the concrete hardens complete as directed.

\[ \text{Area} = 1 \times 15.00 \times 2.50 = 37.50 \text{ m}^2 \]
\[ 1 \times 15.00 \times 2.60 = 39.00 \text{ m}^2 \]
\[ 4 \times 0.50 \times 0.30 = 0.60 \text{ m}^2 \]
\[ 2 \times 0.60 \times 0.50 = 0.60 \text{ m}^2 \]
\[ \text{Total} = 77.70 \text{ m}^2 \]
\[ \text{Rate} = \text{Rs. 281/- m}^2 \]
\[ \text{Cost} = \text{Rs. 21833.70} \]

(a) Providing 12mm thick cement plaster including cleaning the surface, curing, carriage of sand within 200m, complete as directed.

\[ \text{Area} = 1 \times 15.00 \times 0.50 = 7.50 \text{ m}^2 \]
\[ 4 \times 0.50 \times 0.30 = 0.60 \text{ m}^2 \]
\[ 2 \times 0.60 \times 0.50 = 0.60 \text{ m}^2 \]
\[ 2 \times 15.00 \times 2.00 = 60.00 \text{ m}^2 \]
\[ \text{Total} = 68.70 \text{ m}^2 \]
\[ \text{Rate} = \text{Rs. 86/- m}^2 \]
\[ \text{Cost} = \text{Rs. 5908.20} \]

\[ \text{Total Cost} = \text{Rs. 1,66,905.17} \]
\[ \text{SAY} = \text{Rs. 1,66,905.00} \]

(Rupees One Lakh Sixty Nine Thousand Nine Hundred Five) only
ESTIMATE FOR CONSTRUCTION EARTHEN DAM WITH C.C. CORE WALL
FOR WATER HARVESTING STRUCTURE
UNDER WEINER IWMP – V
(As per PWD Scheduled of rates for roads & Bridges, Western Circle – 2007 – 08)

1/3(a) Earthwork in excavation foundation and removal of spoils
Upto 30m lead and all lift etc., complete.
(a) In ordinary soil for core wall of earthen Dam.
\[40.00 \times 0.60 \times 1.00 = 24.00 \text{ m}^3\]
U/S Work = \[40.00 \times 1.00 \times 0.50 = 20.00 \text{ m}^3\]
\[= 64.00 \text{ m}^3\]
@ Rs. 18/m$^3$ \[= Rs. 1,152.00\]

2/5	 Earthwork in filling or in an embankment in layers
not exceeding 20cm thick including breaking clods,
dressing, sectioning and ramming and lead upto
30m.
(d) In ordinary soil/with earth from borrow pits
\[40.00 \times 3.00 + 18.00 \times 0.30 = 126.00 \text{ m}^2\]
\[= 1222.20 \text{ m}^3\]
@ Rs. 74/m$^2$ \[= Rs. 90,442.80\]

24(a) Providing stone pitching with one man size boulders
Not less than 25cmx25cmx30cm long including filling
The interstices with spoils and carriage of stone within a
distance of 30m complete as directed.
U/S – \[40.00 \times 9.00^2 + 3.00^2 \times 0.25 = 44.87 \text{ m}^3\]
\[- 40.00 \times 1.00 \times 0.50 = 20.00 \text{ m}^3\]
D/S Toe Wall:
\[40.00 \times \frac{1}{2} (1.00 \times 0.50) = 10.00 \text{ m}^3\]
\[= 124.87 \text{ m}^3\]
@ Rs. 432/m$^3$ \[= Rs. 53,943.84\]

4/9	 Turfing after dressing the side slope of bed with good
The interstices with spoils and carriage of sods within a
distance of 30m complete as directed.
D/S – \[40.00 \times 6.00^2 + 3.00^2 = 268.00 \text{ m}^2\]
\[Top – 40.00 \times 3.00 = 120.00 \text{ m}^2\]
\[= 388.00 \text{ m}^2\]
@ Rs. 19/m$^2$ \[= Rs. 7,372.00\]

\[\sum = Rs. 7,372.00\]

\[\sum = Rs. 33,942.80\]

\[\sum = Rs. 90,442.80\]
5/25 Providing C.C. work in prop. 1:4:8 in the base of foundation of the core wall with stone aggregate of 40mm down graded including curing etc. complete (Excluding shuttering)

40.00m x 0.60m x 0.20m = 7.88m³
@ Rs. 2022/m³ …………………..= Rs. 15,933.36

6/26 Providing C.C. work in prop. 1:3:6 with hard broken stone aggregates of 40mm down graded including curing and local carriage of materials within 200m.

40.00 x 0.50m x 0.80m = 23.20m³

40.00 x 0.20m + 0.50m x 2.70m = 37.80m³
2 = 61.00m³
@ Rs. 22/m³ …………………= Rs. 1,39,141.00

7/38 Providing with dressed planks not less than 25mm
Properly joined including battens, props to the proper level and removing the same the concrete hardened as directed

2 x 40.00 x 3.50m = 80.00m³
@ Rs. 281/m³ ………………………… = Rs. 78,680.00

8/11 i) a) Cutting drain including dressing grading and removal

60cm x 60cm side spillway both sides

2 x 100m = 200 R.M.
@ Rs. 20/R.M.…………………… = Rs. 4,000.00

b) In ordinary soil

60cm x 60cm = 3.60m³
2 x 100m = 200 R.M.
@ Rs. 20/R.M.…………………… = Rs. 3,933.60

Total = Rs. 3,966,500

Rs. 1,41,140.00

Rs. 78,680.00

Rs. 4,000.00

Rs. 3,933.60

Rs. 3,90,665.00

(Rupees Three lakhs sixty six hundred sixty five only.)
ESTIMATE FOR CONSTRUCTION OF PROPOSED WATER HARVESTING STRUCTURE UNDER WEINIER IWMP – V

1/3(a) Earthwork in excavation in the proper grade including light dressing and removal of spoils up to 30m level and all lift. Soft or laminated rock medium shale. Core Wall: 30.00 x 1.50 x 0.90 = 40.50m³
Apron: 30.00 x 0.90 x 0.25 = 7.50m³
TotalCore Wall: 15.90m³
Providing concrete in prop 1:3:6 with hand broken stone
@ Rs. 46/m³
= Rs. 736.20

2/60 Collecting and supply of hard broken boulders for soiling stones, Including carriage within 200m and stacking in measurable stacks Complete
Hardstone, limestone and the like 75mm to 150mm size
Foundation: 30.00 x 0.90 x 0.15m = 4.50m³
Apron: 30.00 x 2.00 x 0.15m = 9.00m³
Total 13.05m³
Providing substructure with dressed planks not less than 25mm
@ Rs. 268/m³
= Rs. 3,497.00

3/61 Labour for laying the stone bottoming 150mm thick in one layer or two layers each about 75mm thick including filling in the interstices with small stones, chiping stones including ramming consolidating complete as directed
Total same as (2) = 13.05m³
@ Rs. 93/m³
= Rs. 1,213.65

4/38 Providing shuttering with dressed planks not less than 25mm Thick properly joined with battens of minimum size 75mm also 50mm
Foundation: 30.00 x 0.90 x 0.50 = 13.50m³
Core Wall: 30.00 x 2.65m x 2 (sides) = 159.00m³
Total 172.50m³
Providing shuttering with dressed planks for shuttering
@ Rs. 286/m³
= Rs. 44,679.00

5/26 Providing concrete in prop. 1:3:6 with hard broken stone
Aggregates 40mm downgraded including necessary local Carriage of stone aggregates, sand within 200meters and curing Complete
Footing: 30.00 x 0.90 x 0.50 = 13.50m³
Core Wall: 30.00 x 1.50 x 0.25 = 11.25m³
Total 24.75m³
Providing shuttering with dressed planks for shuttering
@ Rs. 2281/m³
= Rs. 55,441.00

Total
@ Rs. 4,979.00
= Rs. 1,213.65

Total Estimate
@ Rs. 6,706.40
= Rs. 27,070.00

WESTERN CIRCLE – 2007 – 08
AS PER PWD SCHEDULED OF RATES FOR ROADS & BRIDGES, NON-GOSTON
UNDER WEINIER IWMP – V
STRUCTURE
ESTIMATE FOR CONSTRUCTION OF PROPOSED WATER HARVESTING
6/5 Earthwork in filling or in an embankment in layers not exceeding 2.00 cm thick including breaking clods, dressing, sectioning and ramming and lead upto 30 meters and lift upto 150 mcm.

(a) In Ordinary Soils.
(b) With earth obtained from borrow pits in the private land at the Contractor's own arrangement.

\[
\begin{align*}
&\text{Volume: } 30.00 \times \left[\frac{1}{2}\left(4.00 \times 2.00\right) + \left(3.00 \times 2.00\right) - \left(0.20 \times 1.80\right)\right] m^3 \\
&= 30.00 \times \left(7.00 + 2.04\right) m^3 \\
&= 271.20 m^3
\end{align*}
\]

\[
\text{@ Rs. 74/m}^3 \quad \text{= Rs. 20,068.81}
\]

7/9 Turfing after dressing the side slope or bed with gond grass sods, Available in the vicinity including ramming properly to the ground and pinning them with small bamboo/wooden pages and carrying of sods within 30 days.

\[
\begin{align*}
&\text{Top Width: } 30.00 \times 1.20 \times 0.20 m = 7.20 m^3 \\
&\text{D/s Face: } 30.00 \times 3.61 \times 0.20 m = 21.66 m^3 \\
&\text{= 28.86 m}^3
\end{align*}
\]

\[
\text{@ Rs. 19.00/m}^3 \quad \text{= Rs. 548.34}
\]

8/10 Extra for the carriage of sods beyond the initial lead of 30 meters

\[
\begin{align*}
&\text{Total - Same as (7) } = 28.86 m^3 \\
&\text{For the lead of every 30 meters or part thereof. } = 288.60
\end{align*}
\]

9/24 (a) Providing stone pitching with one man size boulders not less than 25 cm x 25 cm x 30 cm long including filling the interstices with specific
cement and carriage of stone filling within a distance of 20 meters complete

\[
\begin{align*}
&\text{U/s Face: } 30.00 \times 4.47 \times 0.20 m = 26.82 m^3 \\
&\text{@ Rs. 434/m}^3 \quad \text{= Rs. 11,586.24}
\end{align*}
\]

10/5.2 Providing and laying of sluice pipes including filling the joints with spun yarn, soaked in neat cement slurry and cement mortar

\[
\begin{align*}
&\text{100 mm dia. } = 8.50 m \\
&\text{@ Rs. 365/m}^3 \quad \text{= Rs. 3,102.50}
\end{align*}
\]

Total \(= \text{Rs. 1,54,115.00}\)

7/9 Turfing after dressing the side slope or bed with gond grass sods.
ESTIMATE FOR CONSTRUCTION OF WATER HARVESTING STRUCTURE

UNDER WEINIER IWMP – V


(i) Walling Price: 3/00 x 4/25 m = 7/45 m

(ii) Masonry Wall: 34.00 x 3.00 x 0.85m = 86.70 m³

(iii) Apron: 34.00 x 2.00 x 0.10m = 6.80 m³

(iv) Washing wall: 5 x 4.00 x 2.00 x 1.00m = 40.00 m³

Total = 184.50 m³

@ Rs. 46.00/m³ ……………………………….Rs. 8,446.00

Providing cement concrete work proportion 1:4:8 with hard broken stone aggregate 40mm, nominal size including necessary carriage of stone and sand within a distance of 200 meters and curing (excluding shuttering) completed as directed.

Base:

(i) C.C. Wall: 34.00 x 1.00 x 0.50m = 17.00 m³

(ii) Masonry Wall: 34.00 x 3.40 x 0.35m = 40.46 m³

(iii) Apron: 34.00 x 2.00 x 0.10m = 6.80 m³

(iv) Washing wall: 5 x 4.00 x 2.00 x 1.00m = 0.05 m³

Total = 64.31 m³

@ Rs. 20.22/m³ ………………………………….Rs. 1,30,034.82

Providing stone masonry work in wing wall/guide wall with hammer dressing of blunt chisel dressed stone of heavy section (size not less than 25 x 25 x 30cm long) with proper key stones each not less than 25 x 25 x 75cm long with proper key stones including carriage of stone within 200m complete filling in trenches etc.

(a) With new stones.

(i) Dam : 34.00 (3.00 x 3.50) – ½ (2.50 x 3.00) m³ = 6.75 m³

@ Rs. 618/m³ ………………………………Rs. 4,171.00

(b) Earthwork in filling or in an embankment in layer not exceeding 2.00cm thick including breaking clods, dressing, sectioning and ramming and lead upto 30 meters and lift upto 150cm.

(i) C.C. Wall: 34.00 x 0.50 x 3.00 m³ = 153 m³

@ Rs. 74/m³ …………………………………….Rs. 11,322.00

Providing 100mm thick soiling with approve quality of stone including carriage ramming consolidating and filling the interstices with stone aggregate complete.

(i) Dam: 34.00 x 4.25 m³ = 144.50 m³

(ii) Washing Place: 5 x 2.00 = 10.00 m²

Total = 154.50 m³

@ Rs. 108/m³ …………………………..Rs. 16,632.00
6/26 Providing concrete in prop 1:3:6 with hard broken stone aggregate 40mm down graded including necessary local carriage of stone aggregates, sand within 200 meters and curing (Expending shuttering) complete as directed.

Footing: 34.00 x 1.00 x 0.50 m = 17.00 m³
Face wall: 34.00 x 4.25 x 0.30 m = 43.35 m³
\[=\text{60.35 m}³\]
\[@\text{Rs. 2281 / m}² \text{ }=\text{Rs. 137658.35}\]

7/5.2 Providing and laying of sluice pipes including fitting the joints, with spun yam, soaked in neat cement slurry and cement mortal 1:2 (1 cement : 2 sand) and including Cement Concrete Block (10 x 10 x 10)cm of (1 : 2 : 4) etc.

(b) 100mm dia
Length: = 6.00 m
\[@\text{Rs. 365 / m}² \text{ }=\text{Rs. 2190.00}\]

8/39 Providing 12mm thick cement plastering in proportion 1 : 4 including screening sand clearing the surface and carriage of sand within 200m, complete and directed.

(d) Over stone work and cement concrete.

U/s Face: 34.00 x 4.25m = 144.50 m²
Top width: 34.10 x 0.80m = 27.28 m²
Apron: 34.00 x 2.00m = 70.00 m²
Washing Place: 3.00 x 2.00m = 6.00 m²
U/F Place: 3.00 x 4.00m = 12.00 m²
\[=\text{251.78 m}²\]
\[@\text{Rs. 86 / m}² \text{ }=\text{Rs. 2014.24}\]

10/11 Providing and fixing pipes (15mm dia) including necessary sockets, bens jamnuts, elbow and tess complete.

(i) Galvanized iron
Length: 1 Nos. x 6.00 = 6.00m
\[@\text{Rs. 99 / m} \text{ }=\text{Rs. 188.00}\]

TOTAL Rs. 3,23,656.00
SAY Rs. 3,23,656.00

(Rupees: Three lakhs Twenty three thousand six hundred fifty six) only.
ESTIMATE FOR CONSTRUCTION OF WATER HARVESTING STRUCTURE
UNDER WEINER IWMP – V
AS PER P.W.D. SCHEDULE OF RATES FOR ROADS BRIDGES AND E 7 D WESTERN CIRCLE P.W.D.

1/3
(C) Earth work in excavation for Proper grade including light dressing and removal of spoils up to 30m level and all lift.

(d) Soft of laminated rock medium shale
(i) C.C. Wall: 23.00 x 1.00 x 1.50m = 34.50m³
(ii) Masonry Wall: 23.00 x 3.00 x 0.85m = 58.65 m³
(iii) Apron: 23.00 x 2.00 x 0.10m = 4.60 m³
= 97.75 m³
@ Rs. 46.00/ m³ ……………………………….Rs.4496.50

2/2
Providing cement concrete work proportion 1:4:8 with hard broken stone aggregate 40mm, nominal size including necessary carriage of stone and sand within a distance of 200 meters and curing (excluding shuttering) completed as directed.

Base:­
(i) C.C. Wall: 23.00 x 1.00 x 0.50m = 11.50 m³
(ii) Masonry Wall : 23.00 x 3.40 x 0.35m = 27.37 m³
(iii) Apron: 23.00 x 2.00 x 0.10m = 4.60 m³
= 43.47 m³
@ Rs. 2022/ m³ ………………………………….Rs.87,896.34

3/2
Providing stone masonry work in wing wall/guide wall with hammer dressing of blunt chisel dressed stone of heavy section (size not less than 25 x 25 x 30cm long) with proper key stones each not less than 25 x 25 x 75cm long including carriage of stone within 200m complete filling in trenches etc.

(a) With new stones.
(i) Dam : 23.00 {(3.00 x 3.50) – ½ (2.50 x 3.00)} m = 165.25 m³
@ Rs. 618/ m³ ………………………………Rs. 1,02,124.50

4/5
Earthwork in filling or in an embankment in layer not exceeding 2.00cm thick including breaking clods, dressing, sectioning and ramming and lead upto 30 meters and lift upto 150cm in ordinary soil
(c) in ordinary soil

(4) wall
= 165.25 m³
@ Rs. 74/ m³ …………………………………. Rs. 12,415.50

5/4
Providing 100mm thick soiling with approved quality of stone including carriage, ramming and filling the interstices with stone aggregate complete.

(i) Dam:	 23.00 x 4.25 m = 97.75 m²
@ Rs. 108 / m² …………………………..Rs. 10,557.00

R. 10,557.00
R. 4496.50
R. 87,896.34
R. 1,02,124.50
R. 12,415.50
R. 10,557.00
Providing concrete in prop 1:3:6 with hard broken stone aggregate 40mm down graded including necessary local carriage of stone aggregates, sand within 200 meters and curing (Expending shuttering) complete as directed.

Footing: 23.00 x 1.00 x 0.50 m = 11.50 m$^3$

Face wall: 23.00 x 4.25 x 0.30 m = 29.325 m$^3$

$= 40.825 m^3$

@ Rs. 2281 / m$^2$ …………………………….Rs. 93,121.82

Providing and laying of sluice pipes including fitting the joints, with spun yam, soaked in neat cement slurry and cement mortal 1:2 (1 cement : 2 sand) and including Cement Concrete Block (10 x 10 x 10)cm of (1 : 2 : 4) etc.

(b) 100mm dia

Length: = 6.00 m

@ Rs. 365 / m$^2$ ……………………….Rs. 2190.00

Providing 12mm thick cement plastering in proportion 1 : 4 including screening sand, cleaning the surface and carriage of sand within 200m, complete and directed.

Over stone work and cement concrete.

U/s Face: 23.00 x 4.25m = 97.75 m$^2$

Top width: 23.10 x 0.80m = 18.40 m$^2$

Apron: 23.00 x 2.00m

= 165.15 m$^2$

@ Rs. 86 / m$^2$ ………………………………Rs. 13,944.90

Providing and fixing pipes (15mm dia) including necessary sockets, bens, jamnuts, elbow and less complete.

(d) In soft rock

(i) 0.60 x 0.60m

Total Length: 2 x 120.00 Rm = 240.00 Rm

@ Rs. 35 / Rm ……………………………….Rs. 8400.00

TOTAL Rs. 3,30,390.05

SAY Rs. 3,30,391.00

(Rupees: Three lakhs Thirty thousand three hundred ninety one only.)
ESTIMATE FOR CONSTRUCTION OF WATER HARVESTING STRUCTURE
UNDER WEINIER IWMP – V
AS PER P.W.D. SCHEDULE OF RATES FOR ROADS BRIDGES AND E 7 D WESTERN CIRCLE P.W.D.

1/3

(a) Earth work in excavation for proper grade including light dressing and removal of spoils up to 30m level and all lift.

(b) Soft of laminated rock medium shale

(i) C.C. Wall: 26.00 x 1.00 x 1.50m = 39.00m³
(ii) Masonry Wall: 26.00 x 3.00 x 0.80m = 62.40m³
(iii) Apron: 26.00 x 2.00 x 0.10m = 5.20m³
(iv) Side Walls: 2 x 4.00 x 2.00 x 1.00m = 32.00m³
(v) Washing Wall: 2 x 4.00 x 2.00 x 1.00m = 30.40m³

= 138.60m³

@ Rs. 46.00/ m³ ……………………………….Rs. 6375.60

2/25

(c) Providing cement concrete work proportion 1:4:8 with hard broken stone aggregate 40mm, nominal size including necessary carriage of stone and sand within a distance of 200 meters and complete filling in trenches etc.

(i) Base: –

(ii) C.C. Wall: 26.00 x 1.00 x 0.50m = 13.00m³

(ii) Masonry Wall: 26.00 x 3.00 x 0.30m = 23.40m³

(ii) Apron: 26.00 x 2.00 x 0.10m = 5.20m³

(iii) Side Walls: 2 x 4.00 x 2.00 x 0.50m = 8.00m³

(iv) Washing Wall: 2 x 4.00 x 2.00 x 0.50m = 7.50m³

= 57.10m³

@ Rs. 202/ m³ ………………………………….Rs. 1,15,456.20

3/31

(b) Stone masonry work in wing wall/guide wall with hammer dressing of blunt chisel dressed stone of heavy section (size not less than 25 x 25 x 30cm long) with proper key stones each not less that 25 x 25 x 75cm long including carriage of stone within 200m complete filling in trenches etc.

(a) With new stones.

(i) Dam: 26.00 x (3.00 x 3.50) – ½ (2.50 x 3.00) m = 269.50 m³

@ Rs. 618/ m³ ……………………………….Rs. 1,66,551.00

4/5

(b) Earthwork in filling or in an embankment in layer not exceeding 2.00cm thick including breaking clods, dressing, sectioning and ramming and lead upto 30 meters and lift upto 150cm

(c) in ordinary soil

(3/3)

(i) C.O. 27.36 x ½ (3.00 x 3.00) m = 123.12 m³

@ Rs. 74/ m³ …………………………………. Rs. 9,110.88

5/4.5

(b) Providing 100mm thick soiling with approved quality of stone including carriage ramming consolidating and filling the interstices with stone aggregate complete.

(i) Dam: 26.00 x 3.25 m = 84.50 m²

@ Rs. 108 / m³ …………………………..Rs. 9,126.00
Providing concrete in prop 1:3:6 with hard broken stone aggregate 40mm down graded including necessary local carriage of stone aggregates, sand within 200 meters and curing (Expending shuttering) complete as directed.

Footing: 26.00 x 1.00 x 0.50 m = 13.00 m³
Face wall: 26.00 x 3.00 x 0.30 m = 23.40 m³
Total = 36.40 m³
@ Rs. 2281 / m³ =……………….Rs. 83,028.40

Providing and laying of sluice pipes including fitting the joints, with spun yam, soaked in neat cement slurry and cement mortar 1:2 (1 cement : 2 sand) and including Cement Concrete Block (10 x 10 x 10) cm of (1:2:4) etc.
(b) 100mm dia
Length: = 6.00 m
@ Rs. 365 / m² =…………………….Rs. 2190.00

Providing 12mm thick cement plastering in proportion 1 : 4 including screening sand clearing the surface and carriage of sand within 200m, complete and directed.
(d) Over stone work and cement concrete.
U/s Face: 26.00 x 3.00 m = 78.00 m²
Top width: 26.10 x 0.80 m = 20.80 m²
Apron: 26.00 x 2.00 m = 52.00 m³
Total = 150.80 m²
@ Rs. 86 / m² =……………………………Rs. 12,900.00

Providing regular masonry in retaining walls Best
(a) With new stone
(i) Side Wall: 2 x 4.00 {3. 5/2 (0.60 + 1.70)} m = 32.20 m³
(ii) Wing Walls: 2 x 4.00 {3. 5/2 (0.60 + 1.70)} m = 30.80 m³
Total = 63.00 m³
@ Rs. 99 / m³ = Rs. 6,237.00

Providing and fixing pipes (15mm dia) including necessary sockets, bents jamnuts, elbow and less complete.
(d) In soft rock
(i) 0.60 x 0.60 m
Total Length: 2 x 800.00 Rm
@ Rs. 35 / Rm =……………………………..Rs. 56,000.00

TOTAL = Rs. 4,66,975.08
SAY = Rs. 4,66,975.00

(Rupees: Four lakhs sixty six thousand nine hundred seventy five) only.
### Estimate for Construction of Well Under Weiner IWMP V

**As per S.O.R for Roads, Bridges and E & D Works under Western Circle PWD (Roads), Meghalaya for the year 2007-2008**

#### 1/3 (b) Earthwork in excavation below the lowest bed level including dewatering and bailing out water etc including leveling the foundation etc as directed complete.

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Volume (m³)</th>
<th>Rate (Rs/m³)</th>
<th>Amount (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.00 x 3.00 x 1.80</td>
<td>16.20</td>
<td>103.00</td>
<td><strong>1,668.60</strong></td>
</tr>
</tbody>
</table>

#### 2/25 (a) Providing C.C. work in proportion 1:4:8 with hard broken stone aggregate 40 mm and dawn graded etc complete and as directed.

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Volume (m³)</th>
<th>Rate (Rs/m³)</th>
<th>Amount (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.00 x 0.20 x 0.20</td>
<td>0.12</td>
<td>2022.00</td>
<td><strong>485.28</strong></td>
</tr>
<tr>
<td>3.00 x 0.20 x 0.20</td>
<td>0.12</td>
<td>2022.00</td>
<td><strong>485.28</strong></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>0.24 m³</strong></td>
<td><strong>2022.00</strong></td>
<td><strong>485.28</strong></td>
</tr>
</tbody>
</table>

#### 3/24 (a) Providing stone pitching including filling the interstices and carriage of stone filling within 200m complete as directed.

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Volume (m³)</th>
<th>Rate (Rs/m³)</th>
<th>Amount (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.80 x 2.80 x 0.20</td>
<td>1.57</td>
<td>432.00</td>
<td><strong>684.44</strong></td>
</tr>
<tr>
<td>3.00 x 4.50 x 0.20</td>
<td>2.70</td>
<td>432.00</td>
<td><strong>1,167.60</strong></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>4.27 m³</strong></td>
<td><strong>432.00</strong></td>
<td><strong>1,851.94</strong></td>
</tr>
</tbody>
</table>

#### 4/22 Providing regular stone masonry with hammer dressed or blunt chisel dressed in cement mortar 1:6 including carriage of stone within 200m complete as directed.

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Volume (m³)</th>
<th>Rate (Rs/m³)</th>
<th>Amount (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.80 x 3.00 x 0.20</td>
<td>1.68</td>
<td>1022.00</td>
<td><strong>1,707.76</strong></td>
</tr>
<tr>
<td>2.80 x 2.60 x 0.20</td>
<td>1.46</td>
<td>1022.00</td>
<td><strong>1,481.68</strong></td>
</tr>
<tr>
<td>2 x 2.60 x 3.00</td>
<td>2.91</td>
<td>1022.00</td>
<td><strong>2,910.90</strong></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>6.05 m³</strong></td>
<td><strong>1022.00</strong></td>
<td><strong>6,620.24</strong></td>
</tr>
</tbody>
</table>

#### 5/40 Providing steel reinforcement of R.C.C work including bending, binding and placing in position etc complete.

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Volume (m³)</th>
<th>Rate (Rs/Qntl)</th>
<th>Amount (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 x 37 x 3.60</td>
<td>266.40</td>
<td>3909.00</td>
<td><strong>1,055,724.00</strong></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>266.40 m³</strong></td>
<td><strong>3909.00</strong></td>
<td><strong>1,055,724.00</strong></td>
</tr>
</tbody>
</table>

#### 6/38 Providing shuttering with dressed plank not less than 25mm thick properly joined etc and removing the same after the concrete hardens complete as directed.

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Volume (m²)</th>
<th>Rate (Rs/m²)</th>
<th>Amount (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.60 x 3.60</td>
<td>12.96</td>
<td>281.00</td>
<td><strong>3,641.76</strong></td>
</tr>
</tbody>
</table>

#### 7/27 Providing C.C. work in proportion 1:2:4 with hard granular stone of 20 mm dawn graded including curing and necessary Local carriage of stones within 200m etc complete as directed.

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Volume (m³)</th>
<th>Rate (Rs/m³)</th>
<th>Amount (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.00 x 0.20 x 0.20</td>
<td>0.60</td>
<td>488.94</td>
<td><strong>293.36</strong></td>
</tr>
</tbody>
</table>

#### 6/38 Providing shuttering with dressed plank not less than 25mm thick properly joined etc and removing the same after the concrete hardens complete as directed.

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Volume (m²)</th>
<th>Rate (Rs/m²)</th>
<th>Amount (Rs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.60 x 3.60</td>
<td>12.96</td>
<td>281.00</td>
<td><strong>3,641.76</strong></td>
</tr>
</tbody>
</table>

#### 7/27 Providing C.C. work in proportion 1:2:4 with hard granular stone of 20 mm dawn graded including curing and necessary Local carriage of stones within 200m etc complete as directed.
3.60 x 3.60 x 0.10 = 1.30 m^3
3.00 x 4.50 x 0.10 = 1.35 m^3
= 2.65 m^3

@ Rs. 2951.00/- m^3 ……………………………………….. Rs. 7820.15

Providing 12mm thick cement plastering in propn. 1:4
Including clearing the surface and carriage of sand within

2.80 x 3.00 = 8.40 m^2
2.80 x 2.60 = 7.28 m^2
2 x 2.60 x 3.00 + 2.60 = 14.56 m^2
3.00 x 0.60 = 1.80 m^2
2 x 3.00 x 1.60 + 1.20 = 8.40 m^2
3.60 x 3.60 = 12.96 m^2
2 x 2 x 3.60 x 0.10 = 1.44 m^2
3.00 x 4.50 = 13.50 m^2

= 68.34 m^2

@ Rs. 86.00/- m^2 …………………………………………. Rs. 5877.24

9/11 Cutting drain ……………etc complete
Length of drain = 35.0 m

@ Rs. 25.00/- Rm …………………………………………. Rs. 980.00

TOTAL Rs. 34989.71
SAY Rs. 35000.00
(Rupees Thirty Five Thousand) only

200 m complete as directed
including clearing the surface and carriage of sand within

9/6

8/39

SAY Rs. 7820.15
CEMENT CONCRETE CHECK DAM

ALL DIMENSIONS ARE AS PER ESTIMATE

*DRAWING NOT TO SCALE.
PLAN OF C.C DAM

CEMENT CONCRETE CHECK DAM

ALL DIMENSIONS ARE AS PER ESTIMATE

*DRAWING NOT TO SCALE.
TOP LENGTH

TOP WIDTH

BOTTOM WIDTH

PLAN

CROSS SECTION
A-A'

DEPTH

BOTTOM LENGTH

FARM POND

ALL DIMENSIONS ARE AS PER ESTIMATE

DRAWING NOT TO SCALE
PLAN OF RETAINING WALL

ALL DIMENSIONS ARE AS PER ESTIMATE

*DRAWING NOT TO SCALE.
PLAN OF RETAINING WALL

CROSS SECTION A-A'

BOTTOM WIDTH
TOP WIDTH
LENGTH
A
A'

CROSS SECTION OF CHANNEL

DEPTH
WIDTH

STONE MASONRY

HEIGHT
DEPTH OF EARTHWORK

RETAINING WALL & CHANNEL
ALL DIMENSIONS ARE AS PER ESTIMATE

*DRAWING NOT TO SCALE.
PLAN OF RETAINING WALL

ALL DIMENSIONS ARE AS PER ESTIMATE

*DRAWING NOT TO SCALE.
PLAN OF RETAINING WALL

LENGTH

A

TOP WIDTH

BOTTOM WIDTH

A'

CROSS SECTION OF CHANNEL

DEPTH

WIDTH

STONE MASONRY

HEIGHT

DEPTH OF EARTHWORK

CROSS SECTION A-A'

RETAILING WALL & CHANNEL

ALL DIMENSIONS ARE AS PER ESTIMATE

*DRAWING NOT TO SCALE.
UPSTREAM LENGTH

UPSTREAM WEIR/NOTCH APPRON

WEIR/NOTCH

WASHING PLACE DOWNSTREAM APPRON

DOWNSTREAM

SECTIONAL PLAN

WATER HARVESTING POND/STRUCTURE CUM CHANNEL

DIMENSION ARE AS PER ESTIMATE

DRAWING NOT TO SCALE
UP STREAM

UP STREAM

APPRON

WEIR/ NOTCH

DOWN STREAM

APPRON

SECTIONAL PLAN

DOWN STREAM

WATER HARVESTING

POND

DIMENSION ARE AS PER

ESTIMATE

DRAWING NOT TO SCALE
UP STREAM LENGTH

UP STREAM APPRON

WEIR/NOTCH

WASHING PLACE

DOWN STREAM APPRON

WASHING PLACE

SECTIONAL PLAN

WATER HARVESTING POND/STRUCTURE

DIMENSION ARE AS PER ESTIMATE

DRAWING NOT TO SCALE
Annexure IV

MoA, Sub Committee Details, Etc.
Ha,

U District Officer,
Soil & Water Conservation,
Nongstoin Division.

Subject: Ka Jingkyrpad ban pan jingiarap na ka scheme IWMC.

Sahep badonburom,

Halor katei ka subject ba la kdew haneng, ngi kiba soi kyrteh harum ngi wan ban kyrpad hakhmat ka burom jongphi ba phin sngewbha ban ai jingiarap lem ia ka shnong jongngi lyngba ka scheme IWMC.

Na ka hynta ka burom basbun jongphi ban iarap lem iangi ngin da pyrto junom.

Chairman
Sub Committee
IWMC Mawduh

Secretary
Sub Committee
IWMC Mawduh
DORBAR SHNONG SANGRIANG  
NONGSTOIN SYIEMSHIP  
West Khasi Hills District, Nongstoin.

Ha

U Divisional Officer,
Soil & Conservation Nongstoin.

Subject:- Ka jingkyrpad ban iarap ai jingtrei lem na ka Wieniar IWMP.

Sahep,

Kumbala kedew da ka subject haneng, ngi wan ban kyrpad ha khmat ka burom jong phi ban iarap ban ai jingtrei lem la ka shnong jong ngi, ka Sangriang kaba dei kawei na ka shnong kiba heh duh kiba don ha ka jingpyntrei ia ka Wieniar IWMP lynga ki kam kiba pHER ba pHER ki ban kyntHup naduh ki jingtrei paItbaH bad ruH ki jingaikam shImet ruH kumjuh khnang ban long ka lad ban kyntiew ia ka ioh ka kot jong ki bRiew jong ka shnong jong ngi.

Ka Shnong Sangriang ka long ka shnong kaba la jan baroh ki briew ki im lynga ka rep ka niang ka bylla snGi bad kIwei, kum ka thangmgna. Kuntlet khnang ban iarap ia ki briew ban kyntiew ia ka rep ka riang, ka seng kam la jong bad ban lait na ka jingpyntjot thangmgna. Kuntla ngi kymen kane, ka project kan wan rah ka jingkylla ia ka shnong jong ngi da ka ba phin snewbha ban iarap lem ia ki briew jong ngi ban ai kam ha ki jingtrei ba phin sa pyntrei ha kane ka project.

Khublei shibun.

Dated: Sangriang

The : 18/10/2010

(Mr. B Jawren)  
Sordar  
Shnong Sangriang.

(Mr. O.K. Bani)  
Secretary  
Dorbar Shnong Sangriang.

Secretory Dorbar  
Shnong Sangriang  
West Khasi Hills District, Nongstoin.
DORBAR SHNONG MAWDUH
NONGSTOIN SYIEMSHIP
West Khasi Hills District

Dated: Mawduh
The: 18th Oct. 2010

NO OBJECTION CERTIFICATE

Nga u Sordar shnong Mawduh, Nongstoin Syiemship, nga ai kane ka jingpynhsiah ba ki longing kiba hap hapoh kane ka scheme ki dei hok ban ioh kumba ka Office jongphi ka la bthah bad thung ia ka Sub Committee IWMC Mawduh.

Kumta na ka liang jongnga u Sordar bad ka Dorbar Shnong kaba la aibor ianga, ngam don kano kano ka No Objection pyrshah ia ka Sub Committee, hynrei ki don ka hok ban pynrei kam.
DORBAR SHNONG MAWTHAR
Nongstoin Syiemship
West Khasi Hills District
P.O. Nongstoin – 793119.

Ref. No................................. Date...7-10-2010...

No Objection Certificate.

Ngo u Sonder Shnong jang ka Shnong Mawthar
Ngo menju r la fo Office jang fo sail and water
Conservation Nangstain lau propose bad too iato
kau hapah ko Shnong.
Nao ko bington ko jingmentes jang fo mongsap jang
ka Shnong haq regimen dan seina kine ki jing bokes
papsha he ujar sere ko ka bington ko re jing
pem bila eko ke jaka mep jang fo mongsap
Shangshnong.

Dated: 7/10/10

[Signature]

[Stamp]
DORBAR SHNONG SANGRIANG
NONGSTOIN SYIEMSHIP
West Khasi Hills District, Nongstoin.

NO OBJECTION CERTIFICATE

Nga u Dorbar shnong Sangriang da ka jingmynjur lang jong ka Dorbar Shnong Sangriang nga ai kane ka jingpynishisha ba ka Shnong Sangriang kam don kano kano ka jingpyrshah ia ka Soil Department Nongstoin ban pynitrei ia ka Project jong ka, hapoh ka shnong Sangriang bad hapoh u pud u sam jong ka shnong, ia kaba ia tip kum ka Wieniar IWMP ha kaba, ka iaid ryngkat ruh bad ka jingsngewthuh jong ka Dorbar Shnong Sangriang.

Dated: Sangriang
The: 18/10/2010

(Mr. Lawren)
Sordar
Shnong Sangriang

Sordar
Shnong Sangriang
Dear:  

Date: 11-10-80

Re: Replacement:

Dear [Recipient]:

Due to [Reason], I am writing to inform you about my [current status]. I am currently [current status].

I have [details]. Please let me know if there is anything else I can provide.

Thank you for your understanding.

Best regards,

[Your Name]

[Signature]
Soil Survey Team

PRA Exercise