## GOVERNMENT OF MEGHALATA

## DEPARTMENT OF SOIL \& WATER CONSERVATION DETAIL PROJECT REPORT

 OFUPPER DABANG MICRO WATERSHED UNDER INTEGRATED WATERSHED MANAGEMENT PROGRAMME WGH IWMP -IX 2010-2011


TURA SOIL \& WATER CONSERVATION(T)DIVISION WEST GARO HILLS, MEGHALAYA TIKRIKILLA C\&RD BLOCK

## SUMMARY

| Name of the Sate | $:$ | Meghalaya |
| :--- | :--- | :--- |
| Name of the District | $:$ | West Garo Hills |
| Name of the C\&RD Block | $:$ | Tikrikilla |
| Name of the Villages | $:$ | $1)$ Dabang Gajingpara (11) Dabang |
|  |  | Ampangdamgre |
| Name of the Project | $:$ | IWMP-IX |
| Total Geographical Area | $:$ | 570.40 Ha |
| Total Treatment Area |  | 75 lakhs |
| Total Project Cost |  | 5 Years |
| Project Duration | $:$ | Soil \& Water Conservation Territorial Division, |
| Project Implementing Agency |  | Tura. |

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## CHAPTER I <br> INTRODUCTION AND BACKGROUND

## CHAPTER I

## INTRODUCTION AND BACKGROUND

### 1.1 Project Background:

The Upper Dabang (IWMP) Project is located in Tikrikilla C\&RD Block, West Garo Hills District of Meghalaya. Consisting of a single micro-watershed, the project area is drained by the Dabang Stream and its tributaries flowing in a north to south direction. The total area is 570.40 Ha . with 500 Ha to be treated under the Integrated Watershed Management Programme (IWMP). The Project area is located at a distance of about 20 km from Tikrikilla the C \& R D Block and about 145 km from Tura the District Headquarter. A total of two villages are covered under the project. These are -
i) Dabang Gajinpara
ii) Dabang Ampangdamgre

### 1.2 Micro-watershed Information:

The micro-watershed code is $\qquad$ as codified by the North East Space Application Centre (NESAC). The total area of the micro-watershed is 570.40 Ha ., with 500 hectares to be treated under the Integrated Watershed Management Programme (IWMP).

### 1.3 Need and Scope for Watershed Development:

The micro-watershed Upper Dabang falls under the High Priority category as per the prioritization of watersheds by the North East Space Application Centre (NESAC). . The farmers are all marginal and Jhum cultivation is practiced by most of the inhabitants of these villages on the slopes. Even though the area receives ample rainfall during the monsoons, there is acute shortage of water during the dry seasons and the villagers have to travel long distances for fetching water even for domestic use.

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

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

1. NREGS

## CHAPTER II

BASIC INFORMATION OF THE PROJECT AREA

### 2.1 Location:

The Project area is located at West Garo Hills. It is situated at a distance of about 20 km from Tikrikilla the C \& R D Head Quarter and about 145 km from Tura the District Headquarter. The geographical location is between $90^{\circ} 19^{\prime} 26.40^{\prime \prime}$ to $90^{\circ} 21^{\prime} 46.80^{\prime \prime} \mathrm{E}$ Longitude and $25^{\circ} 58^{\prime} 26.40^{\prime \prime} \mathrm{N}$ to $25^{\circ} 54^{\prime} 55.80^{\prime} \mathrm{N}$ Latitude. There are two villages within the Watershed which are as follows -
i) Dabang Gajinpara
ii) Dabang Ampangdamgre

### 2.2 Physiography:

The physiography of the micro-watershed is highly undulating. The altitude ranges from a minimum of 40 m to a high of 144 m above mean sea level. In the lower reaches (valley lands) the slope ranges from $1 \%$ to $5 \%$ however, in the middle and upper reaches it is greater than $15 \%$ and can reach up to $50 \%$.

Table 2.1: Physiographic details

| Elevation (metres) | Slope Range (\%) | Order of watershed Sub/Microwatershed | Major streams | Topography |
| :---: | :---: | :---: | :---: | :---: |
| 40-144 | 1-50\% | 2 Order of Didak River Micro W/S | (i)Dabang Stream <br> (ii)Ronggaram Stream <br> (iii)Bolbak <br> Stream <br> (iv)Silompa <br> Stream <br> (v)Ella Stream <br> (vi)Chirongga stream <br> (vii)Achikong <br> bang Stream <br> (viii)Dogilika <br> Stream <br> (ix)Rongbaram <br> Stream <br> (x)Bolchim <br> Stream <br> (xi)Gella <br> Stream | Flat and gentle slopes |

### 2.3 Drainage:

The major stream draining the micro-watershed is the Dabang which is a $2^{\text {th }}$ to $3^{\text {th }}$ order stream flowing in a north-south direction. The slopes of the micro-watershed are dissected by numerous small tributaries flowing to the Dabang.

### 2.4 Soil:

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

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

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { Sl. } \\ & \text { No. } \end{aligned}$ | Names of State | Names of District | Names of Projects | Cause | Types of erosion | Area affected (ha) | Run-off (mm/ year) | Average soil loss (Tonnes/ ha/ year) |
| 1 | Meghalaya | West Garo Hills | $\begin{aligned} & \text { WGH } \\ & \text { IWMP- } \\ & \text { IX } \end{aligned}$ | Water erosion: |  |  |  |  |
|  |  |  |  | a | Sheet | 500 |  |  |
|  |  |  |  | b | Rill |  | NA | NA |
|  |  |  |  | c | Gully |  |  |  |
|  |  |  |  | Sub total |  | 500 |  |  |
|  |  |  |  | Wind erosion |  | Nil | Nil | Nil |

### 2.5 Climate:

The area in the foothills or low lying areas and mid-slopes are hot in summer and remain warm throughout the winter. The area on the higher reaches is warm during summer and cold during winter. The average annual rainfall is 3600 mm .

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

| 1 | 2 | 3 | 4 | 5 | 6 | 7 |  | 8 | 9 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Name of State | Name of the Agroclimatic zone | Area (in ha) | Names of the districts | Names of the Projects | Major soil types |  | Average annual rainfall in mm (preceding 5 years' average) | Major crops |  |
| No. |  |  |  |  |  | $\begin{gathered} \text { a) } \\ \text { Type } \end{gathered}$ | b) Area (ha) |  | a) <br> Name | b) Area (ha) |
| 1 | Meghalaya | Hot, moisture | 500 | West Garo Hills | $\begin{gathered} \text { WGH } \\ \text { IWMP-IX } \end{gathered}$ | Fine loamy soils. <br> Coarse loam soils. | $\begin{aligned} & 409.52 \\ & 160.88 \end{aligned}$ | 3600 mm | Rice | 22.06 |
|  |  |  |  |  |  |  |  |  | Maize | 10.00 |
|  |  |  |  |  |  |  |  |  | Ginger | 25.00 |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | Total |  | 57.06 |

### 2.5 Agriculture:

Agriculture is the primary occupation of the people of the area. The people mostly practice jhum. The jhum plots vary from 1 to1.5 Ha, and are cultivated for 3-4 years. The principal agricultural crops grown of the jhum fields are potato, sweet potato, maize, yam and vegetables. Fruit crops are well suited in the lower reaches which mango, jackfruit, orange, pineapple, litchi. The slopes of the Upper Dabang are also very suitable for betel nut, betel leaf, black pepper which contribute to the income of the people.

Table 2.4: Crop yield and production

| Crops | Area <br> (ha) | Average Yield <br> (Qtl) per ha. | Total Production (Qtl.) |
| :---: | :---: | :---: | :---: |
| Rice | 22.06 | 20 | 4410.20 |
| Maize | 10.00 | 15 | 150.00 |
| Ginger | 25.00 | 40 | 1000.00 |

### 2.6 Natural Vegetation:

The tree species common to the watershed area includes Mirbelia champaca,Artocarpus chapalasa,Gmelina arborea,Dendrocalamus bambusa, Shorea robusta,Vitree pedangcularisa etc .However, due to jhum cultivation the forest cover of the area has reduced considerably.

### 2.7 Socio-Economic Profile:

Economically, the area is perhaps the most backward in the district. The main reason is due to the absence of road communication, primitive way of agricultural practices like jhumming and the difficult terrain of the area.
Demographic Status: The total households in the watershed project is 66 (sixtysix) with a total population of 319 of which 147 are male and 172 are female. The detail of the household in each of the villages in the watershed project is as follows:

| 1. Dabang Gajinpara | - | 43 Nos |
| :---: | :---: | ---: |
| 2. Dabang Ampangdamgre | - | 23 Nos |
|  |  |  |
| Total | - | $\mathbf{6 6}$ nos |

## Infrastructure facilities :

2.1.1 Roads: There is no all weather road but the village within the Project Area is connected by the kutcha constructed under NREGS
2.1.2 School: there are only two L.P Schools within the Project Area run either by the Mission or by the Government.
2.1.3 Electricity : There is no electricity under this Project Area .
2.1.4 Health : There is no Community Health Centre or sub-cencentre and the local population have to either depends on facilities available at Naguapara at a distance of 5 km .
2.1.5 Water Supply :There is no drinking water supply from P.H.E but the entire population depend on springs available in the area to meet the daily requirement.
2.1.6 Market : There is no any market under this project area but the people of this area sell their products at Naguapara weekly market which is 5 km away from the watershed area.
Table 2.5: Infrastructure Status.

| 1 | 2 |  | 3 | 4 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Name of District | Name of Project | Parameters: |  | Status |  |  |  |
| WGH | WGH- <br> IWMP-IX | (i) | Whether connected to the main road by an all weather road | NIL |  |  |  |
|  |  | (ii) | No. of households without electricity | 66 |  |  |  |
|  |  | (iii) | No. of households without access to drinking water | 66 |  |  |  |
|  |  | (iv) | No. of educational institutions: <br> Primary (P)/ Secondary (S)/ Higher Secondary (HS)/ <br> Vocational institution (VI) | (P) | (S) | (HS) | (VI) |
|  |  |  |  | 2 | NIL | NIL | NIL |
|  |  | (v) | Distance of project village from nearest Primary Health Centre | 5 km |  |  |  |
|  |  | (vi) | Distance of project village from nearest Veterinary Dispensary | 5 km |  |  |  |
|  |  | (vii) | Distance of project village from nearest Post Office | 5 km |  |  |  |
|  |  | (viii) | Distance of project village from nearest Banks | 20 km |  |  |  |
|  |  | (ix) | Distance of project village from nearest Markets/ mandis | 5 km |  |  |  |
|  |  | (x) | Distance of project village from nearest Agro-Industries | NIL |  |  |  |
|  |  | (xi) | Total quantity of surplus milk | NIL |  |  |  |
|  |  | (xii) | No. of milk collection centres | (U) | (S) | (PA) | (O) |
|  |  |  | (e.g. Union (U)/ Society (S)/ Private agency (PA)/ <br> Others (O)) | NIL | NIL | NIL | NIL |
|  |  | (xiii) | No. of villages with access to Aganwadi Centres | 2 |  |  |  |
|  |  | (xiv) | No. of worship place | 2 |  |  |  |
|  |  | (xv) | No. of Community Hall | NIL |  |  |  |
|  |  | (xvi) | No. of water tanks/Ringwell/Spring chamber | NIL |  |  |  |

### 2.8 Livestock:

There are only 4 kinds of livestock farming being farmed in the area viz. Piggery, Poultry,Cattle and Goatery .

Table 2.6: Existing livestock population

| Type of Animal | Population |
| :---: | :---: |
| Piggery | 35 |
| Poultry | 1221 |
| Goatery | 107 |
| Cattle | 210 |
| TOTAL | $\mathbf{1 5 7 3}$ |

### 2.9 Land ownership:

The proposed project is under the "A'king land tenure system." prevailing in Garo Hills District of Meghalaya in which a land is held a particular class \{Mahari) under the custody of the Head of the Clan or a Village Chief called "Nokma" recognized as such by the Garo Hils District Councils.
Table 2.7: Land Holding:

| 1 | 2 | 3 | 4 | 5 |  | 6 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Name of District | Name of the Project | Types of Farmer | No. of households | No. of BPL households | Land holding (ha) |  |  |
|  |  |  |  |  | Irrigated | Rainfed | Total |
| West Garo Hills | IWMP-IX | (i) Large(>5 Ha) | - | - | - | - | - |
|  |  | (ii) Small(1-5 Ha) | - | - | - | - | - |
|  |  | (iii) Marginal(<1 Ha) | 66 | - | - | 22.06 | - |
|  |  | (iv) Landless | - | - | - | - | - |
|  |  | Sub - Total | 66 | - | - | 22.06 | - |

Table 2.5: Common Property Resources in the Project Area

| 1 | 2 | 3 | 4 |  |  |  | 5 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Name of | Name of the Projects | CPR <br> Particulars | Total Area (ha) <br> Area owned/ In possession of |  |  |  | Area available for treatment (ha) |  |  |  |
| District |  |  | Pvt. Person | Govt. (specify deptt.) | PRI | Any other (Community) | Pvt. <br> Person | Govt. (specify deptt.) | PRI | Any other (Community) |
| West Garo Hills | WGH <br> IWMP-IX | (i) Wasteland/ degraded land | - | - | - | 80.06 | - | - | - | 323 |
|  |  | (ii) Pastures | - | - | - | - | - | - | - | - |
|  |  | (iii) Orchards | 141.25 | - | - | - |  | - | - | - |
|  |  | (iv) Private agriculture land | - | - | - | - | 97 | - | - | - |
|  |  | (v) Forest | - | - | - | 25 | - | - | - | 10.00 |
|  |  | (vi) Village Ponds/ Tanks | - | - | - | - | - | - | - | - |
|  |  | (vii) Community Buildings | - | - | - | - | - | - | - | - |
|  |  | (viii) Weekly Markets | - | - | - | Nagaupara | - | - | - | - |
|  |  | (ix) Permanent Markets | - | - | - |  | - | - | - | - |
|  |  | (x) Temples/ Places of worship | - | - | - | 2 | - | - | - | - |
|  |  | (xi) Jhum Cultivation | 25 | - | - | - | - | - | - | - |
|  |  | (xii)Permanent Cultivation | 22.06 | - | - | - | - | - | - | - |
|  |  | (xiii) Habitation including streams | 15.00 | - | - | Na | - | - | - | 70 |
|  | Total |  | 178.31 | - | - | 105.06 | 97 | - | - | 403 |

2.9 Land use and land cover : As per the land use land cover map the Watershed area has been broadly classified into the following land uses.
a) Agricultural land-crop land-kharif crop
b) Tree clad Area-open
c) Wastelands-barren Rocky/Stony waste
$=38.70 \mathrm{Ha}$
$=385.62 \mathrm{Ha}$
d) Horticulture plantation

$$
=80.06 \quad \mathrm{Ha}
$$

$=66.02 \mathrm{Ha}$

$$
\text { Total }=\mathbf{5 7 0 . 4} \quad \mathbf{H a}
$$

### 2.10 Problems of the Area :

The primary problems of the area is jhumming. Majority of the population depends on Jhum Cultivation for their livelihood. Vast tracks of abandoned Jhum areas which has further degraded the capability of the land. Moreover, unscientific method of cultivation has not only reduced the Jhum cycle and crop yield but had adversely affected the ecological balance within the area. Road communication is another infrastructural problems that the area is facing where large volume crops like pineapple, jackfruits etc do not find their way into the market which has resulted in poor socio-economic status of the people. However, to control or to overcome the said problems an innovative approach has been formulated and documented in the Action Plan or the Treatment Plan the Detailed Project Report. The method of identification of the problems is through the Participatory Rural Appraisal Exercises conducted in all the villages within the Watershed.

## CHAPTER III

## PROJECT PLANNING \& INSTITUTION BUILDING

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### 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 | 2 |
| :---: | :---: | :---: |
| SI.No. | Scientific criteria/ inputs used | No. of projects in which scientific criteria were 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 <br> i)NESAC,Nongsder ii)SNLA,GIS lab,Shillong |
|  | Baseline survey | YES |
|  | Hydro-geological survey | GIS survey/engineering Survey |
|  | Contour mapping | Toposheet(1:50000) |
|  | Participatory Net Planning (PNP) | PRA exercise |


| 1 | 2 | 2 |
| :---: | :---: | :---: |
|  | Remote sensing data-especially soil/ crop/ run-off cover | YES |
|  | Ridge to Valley treatment | YES |
|  | Online IT connectivity between |  |
|  | (1) Project and DRDA cell/ZP | YES |
|  | (2) DRDA and SLNA | YES |
|  | (3) SLNA and DoLR | YES |
|  | Availability of GIS layers |  |
|  | 1. Cadastral map | NO |
|  | 2. Village boundaries | NO |
|  | 3. Drainage | YES |
|  | 4. Soil (Soil nutrient status) | YES |
|  | 5. Land use | YES |
|  | 6. Ground water status | NO |
|  | 7. Watershed boundaries | YES |
|  | 8. Activity | YES |
|  | Crop simulation models ${ }^{\text {\# }}$ | NO |
|  | Integrated coupled analyzer/ near infrared visible spectroscopy/ medium spectroscopy for high speed soil nutrient analysis | NO |
|  | Normalized difference vegetation index (NDVI)\# | YES |
|  | Weather Stations | NO |
| B. | Inputs |  |
|  | 1. Bio-pesticides | NO |
|  | 2. Organic manures | YES |
|  | 3. Vermi-compost | NO |
|  | 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 | NO |
|  | Any other (please specify) |  |

### 3.2 Project Implementing Agency:

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

| 1 | 2 |  |  | 3 |
| :---: | :---: | :---: | :---: | :---: |
| Names of Districts | Names of projects | Details of PIA |  |  |
| West Garo Hills | W.G.H. IWMP-IX | (i) | Type of organization\# | Government |
|  |  | (ii) | Name of organization | Soil \& Water Conservation (T) Division, |
|  |  | (iii) | Designation \& Address | Divisional Officer, Tura Soil \& Water Cons.(T) Division, W.G.H, Tura Meghalaya. |
|  |  |  | Telephone | 03651-222354 |
|  |  | (v) | Fax | 03651-222354 |
|  |  | (vi) | E-mail | turadivsoil@gmail.com |

### 3.3 Institution Building

i) Watershed Committee (WC)

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

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{gathered} \text { Names of } \\ \text { the } \\ \text { Districts } \end{gathered}$ | Names of projects | Names of WCs | Date of Registration as a Society (dd/mm/ уууу) | Designa tion | M/F | SC | ST | SF | MF | LF | $\begin{gathered} \text { Land- } \\ \text { less } \end{gathered}$ | UG | SHG | GP | Any other | Educational ualifycation | Function/s assigned\# |
| W.G.H | W.G.H-IWMPIX | Upper <br> Dabang | Under progress | President | M |  | ST |  |  |  |  |  |  |  |  | $\begin{gathered} \hline \text { Class } \\ \mathrm{X} \end{gathered}$ | A to I |
|  |  |  |  | Secretary | M |  | ST |  |  |  |  |  |  |  |  | $\begin{gathered} \hline \text { P.U } \\ \text { (Arts) } \end{gathered}$ | A to I |
|  |  |  |  | Member | 8 M |  |  |  |  |  |  |  |  |  |  | Class | A to I |
|  |  |  |  | Member | 1 F |  |  |  |  |  |  |  |  |  |  | IV-VIII | A to I |
|  |  |  |  | Member |  |  |  |  |  |  |  |  |  |  |  |  |  |

A. PNP and PRA
C. Maintenance of Accounts
E. Supervision of construction activities
G. Verification \& Measurement
I. Social Audit
B. Planning
D. Signing of cheques and making payments
F. Cost Estimation
H. Record of labour employed
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:

| 1 | 2 |  | 3 |  |  |  | 4 |  |  |  | 5 |  |  | 6 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Names of | Names of projects | Total no. of registered SHGs |  |  |  | No. of members |  |  |  | No. of SC/ST in each category |  |  | No. of BPL in each category |  |  |
| the <br> Districts |  | With only Men | With only Women | With both | Total | Categories | M | F | Total | M | F | Total | M | F | Total |
| W.G.H | W.G.H-IWMPIX | 2 No |  |  | 2 No | (i) Landless |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | (ii) SF |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | (iii) MF | 20 |  | 20 | 20 |  | 20 | NA | NA | NA |
|  |  |  |  |  |  | (iv) LF |  |  |  |  |  |  |  |  |  |

iii) User Group

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

Table 3.4: User Group Details


CHAPTER IV
PROJECT ACTIVITIES

## CHAPTER IV <br> PROJECT ACTIVITIES

### 4.1 Preparatory Phase:

i) Entry Point Activities (EPA)

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sl. <br> No. | State | District | Names of Project | Amount earmarked for EPA | Entry Point Activities planned | Estimated cost | Expenditure incurred | Balance | Expected outcome | Actual outcome |
| 1 | Meghalaya | W.G.H | $\begin{gathered} \text { W.G.H } \\ \text { IWMP-IX } \end{gathered}$ | 3.00 Lakh | Construction of Spring Chamber/Ringwe 11 | 3.00 Lakh | - | - | - | Increase in availability of drinking water |

ii) Other activities of Preparatory Phase:

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| District | Name of Projects | Initiation of village level institution | Capacity building | IEC <br> activities | Baseline survey | Hydrogeologi cal survey | Identifyin g technical support agencies | Resource agree-ments | Prepar ation of DPR | Evaluati on of DPR | Any other (please specify) | Cost incurre d (Rs. In lakh) |
| W.G.H | $\begin{aligned} & \text { W.G.H } \\ & \text { IWMP- } \\ & \text { IX } \end{aligned}$ | a) Rapport Building <br> b) <br> Community meeting <br> c)Formation of | a) Project <br> concept/roles and responsibility of W.C <br> b) <br> Concept/roles and responsibility of SHG and UG <br> c) <br> Concept/roles and responsibility of of WDT members <br> d) Offcampus exposure trip to research Institutes/Esta blished farms etc. | a)Pamplet s <br> b)Banners <br> c)Posters | a)Particip <br> atory <br> Rural <br> Appraisal <br> s <br> b)Socio <br> Economic <br> Survey | a)GPS <br> survey <br> b)Engi- <br> neering <br> Survey | a) NIRD <br> b)SIRD <br> c)ICAR <br> d)NEHU | a) NOC with village headman for under-taking developmental works <br> b) Agreement for convergence of NREGS scheme with IWMP with VEC. | a)Res ource invent ory works | Done |  | 1.5 |

### 4.2 Watershed Works Phase:

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


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

4.2.3 Activities executed by User Groups in the Project Areas.

|  | 2 | 3 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Names of Districts | Names of Projects | Major activities of the UGs -Targets |  |  |  | No. of UGs involved |  | Amount of WDF to be collected (Rs.) |
|  |  | Structure/ activity proposed |  |  |  |  | Estimated Cost |  |
|  |  | Sl. No. | Type | No.\# | Treatment (ha) |  |  |  |
| W.G.H | $\begin{gathered} \text { W.G.H } \\ \text { IWMP-IX } \end{gathered}$ | 1. | C.C Check-cum irrigation dam | 4 Nos | 90 Ha | 2 | 10.00 | 0.50 |
|  |  | 2 | Stone masonry Protection Wall | 8Nos | 90 Ha | 2 | 4.00 | 0.20 |
|  |  | 3 | Earthen Irrigation Channel | 400 rmt | 60 Ha | 1 | 0.20 | 0.01 |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  | Total |  | 240 Ha | 5 | 14.20 | 0.71 |

4.2.4 Activities executed by User Groups in the Project Areas:

| 4 |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Major activities of the UGs - Achievements |  |  |  |  |  |  |  |  |  |
| Structure/ activity |  |  |  | No. of UGs involved | Expenditure incurred (Rs.) | No. of mandays |  |  | Amount of WDF collected (Rs.) |
| Sl. No. | Type | No.\# | Treated Area (ha.) |  |  | SC | ST | F |  |
| - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - |

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

| 1 | 2 | 3 |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Names of projects | Major activities of the SHGs |  |  |
| Names of the Districts |  | Name of activity | No. of SHGs involved | Average annual income from activity per SHG |
| West Garo Hills | $\begin{gathered} \text { W.G.H } \\ \text { IWMP-IX } \end{gathered}$ | Piggery | 5 | 0.65 |
|  |  | Poultry | 5 | 0.40 |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  | Total |  | 4 | 1.05 |
|  |  |  |  |  |

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

| 4 | 5 |  |  |  |  | 6 | 7 | 8 |  |  | 9 | 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total assistance received by the SHG (Amount in Rs.) |  |  |  |  | Total annual Income generated (Rs.) | Total annual Savings (Rs.) | No. of SHGs Graded as |  |  | Total Amount of loan sanctioned by the bank(s) | No. of SHGs federated |
| given training | Loan from revolving fund | Training | Material | ncome senerating activities | Amount |  |  | I | II | III |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | NIL | 1.60 | NIL | Piggery | 1.50 | 1.30 | 0.60 |  |  |  |  |  |
|  |  |  |  | Poultry | 1.50 | 0.80 | 0.40 |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |



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

| 1 | 2 | 3 | 4 |  |  | 5 |  |  | 6 | 7 |  |  |  |  |  | 8 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| District | Project | Name of structures | Type of treatment |  |  | Type of land |  |  | Executing agency | Target |  |  |  |  |  | Achievement |  |  |  |  |  |  |
|  |  |  | $\mathrm{S} \left\lvert\, \begin{gathered} \text { (i) } \\ \text { Ridge } \\ \text { area (R) } \end{gathered}\right.$ | (ii) <br> Drainage <br> line <br> (D) | (iii) <br> Land <br> Dev. <br> (L) | (i) Private | (ii) <br> Community | (iii) Others (pl. specify) | (i) UG <br> (ii)SHG <br> (iii) Others <br> (pl. specify) | $\begin{gathered} \text { No. of } \\ \text { units } \\ \text { (No./ } \\ \text { cum./ } \\ \text { rmt) } \end{gathered}$ | Estimated cost (Rs. in lakh) |  |  |  | $\begin{gathered} \text { Expected } \\ \text { month \& } \\ \text { year of } \\ \text { completion } \\ (\mathrm{mm} / \mathrm{yyy}) \end{gathered}$ | No. of units (No./ cu.m. rmt) | $\begin{gathered} \text { Expe } \\ \text { inc } \\ \text { Rs. } \end{gathered}$ | pend <br> ncur <br> in |  |  | Status of omple-tion | Actual month \& year of completion |
|  |  |  |  |  |  |  |  |  |  |  | M | W | $\mathrm{O}$ | T |  |  | M | W | O | T |  |  |
| W.G.H | $\left\lvert\, \begin{aligned} & \text { W.G.H } \\ & \text { IWMP-IX } \end{aligned}\right.$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Dug out Pond |  | $\sqrt{ }$ |  | $\sqrt{ }$ |  |  | UG/WC | 18 Nos |  | 7.50 |  | 7.50 | 31/3/2013 |  |  |  |  |  |  |  |
|  |  | Check Dam |  | $\checkmark$ |  |  | $\sqrt{ }$ |  | UG/WC | 4 Nos | 4 | 6.00 |  | 10.00 | 31/3/2013 |  |  |  |  |  |  |  |
|  |  | Wet Terrace |  |  | $\sqrt{ }$ | $\sqrt{ }$ |  |  | UG/WC | 12 Nos |  | 2.40 |  | 2.40 | 31/3/2013 |  |  |  |  |  |  |  |
|  |  | Stone masonry Protection Wall |  | $\checkmark$ |  |  | $\sqrt{ }$ |  | UG/WC | 8 Nos | 1.6 | 2.40 |  | 4.00 | 31/3/2013 |  |  |  |  |  |  |  |
|  |  | Earthen irrigation Channel |  | $\sqrt{ }$ |  |  | $\sqrt{ }$ |  | UG/WC | $\begin{array}{\|l\|} \hline 400 \\ \text { rmt } \\ \hline \end{array}$ |  | 0.20 |  | 0.20 | 31/3/2013 |  |  |  |  |  |  |  |
|  |  | Water Harvesting farm pond |  | $\sqrt{ }$ |  | $\sqrt{ }$ |  |  | UG/WC | 4 Nos | 4.00 | 6.00 |  | 10.00 | 31/3/2013 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Total |  |  |  |  |  |  |  |  | 9.60 | 24.50 |  | 34.10 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

4.2.9 Details of engineering structures in watershed works.

2.10 Details of activities connected with vegetative cover in watershed works:

| 1 | 2 | 3 |  | 4 |  |  | 5 |  | 6 | 7 |  |  |  | 8 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Distr ict | $\begin{gathered} \text { Proj } \\ \text { ect } \end{gathered}$ | Name of structure/ work | Type of treatment |  |  | Type of land |  |  | Executing agency | Target |  |  |  | Achievement |  |  |  |
|  |  |  | (i) Ridge area (R) | (ii) Drainag e line (D) | (iii) <br> Land <br> dev. <br> (L) | (i) Priva te | (ii) <br> Com munit y | (iii) <br> Other <br> s (pl. <br> specif <br> y) | (i) UG <br> (ii)SHG <br> (iii) Others <br> (pl. specify) | Area <br> (ha) | No. of plants | Estimate d cost (Rs. in lakh) | Expected month \& year of completion (mm/ уууу) | Area <br> (ha) | No. of plants | Expendi-ture incurred (Rs. in lakh) | Actual month \& year of comple-tion (mm/ yyyy) |
| $\begin{gathered} \text { WG } \\ \mathrm{H} \end{gathered}$ | $\begin{aligned} & \text { IW } \\ & \text { MP } \\ & \text {-IX } \end{aligned}$ | Improvement of degraded | R |  | C |  |  |  | WC | 10 Ha | 1000 | 0.36 | 31/3/2012 |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Rubber Plantation | R |  |  | P |  |  | Farmers | 40 Ha | 18,000 | 4.40 | 31/3/2014 |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Arecanut | R |  |  | P |  |  | Farmers | 30 Ha | 36,000 | 2.64 | 31/3/2014 |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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

| 9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Outcomes |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{gathered} \text { Name } \\ \text { of } \\ \text { activitie } \\ \text { s } \end{gathered}$ | Reduc tion in run off (cu.m) | Production (quintal) |  | Income (Rs.) |  | Mandays generated |  |  |  |  | No. of beneficiaries |  |  |  |  |
|  |  |  |  | SC | ST | Others | Women | Total | SC | ST | Others | Women | Total |
|  |  | Pre-project | $\begin{gathered} \hline \text { Post } \\ \text { project } \end{gathered}$ |  |  |  |  |  |  |  |  |  |  | Preproject | Post project |
| Improvem ent of degraded | NA | 0 |  |  |  |  | 230 |  | 130 | 360 |  | 46 |  | 20 | 66 |
| Rubber Plantatio n | NA | 0 | 122 | 0 | 1464,000 |  | 4200 |  | 1800 | 6000 |  | 30 |  | 10 | 40 |
| Arecanut | NA | 315 | 775 | 252,000 | 620,000 |  | 2400 |  | 1020 | 3420 |  | 25 |  | 5 | 30 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total |  | 315 | 897 | 252,000 | 2084,000 |  | 6830 |  | 2950 | 9780 |  | 101 |  | 35 | 136 |

### 4.2.12 Details of allied / other activities:

| 1 | 2 | 3 | 4 |  |  | 5 | 6 |  | 7 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| District | Project | Name of activity@ | Type of land |  |  | (i) UG <br> (ii)SHG <br> (iii) Others (pl. specify) | Target |  | Achievement |  |
|  |  |  | $\begin{aligned} & \text { (i) } \\ & \text { Privat } \\ & \mathrm{e} \end{aligned}$ | (ii) Communit y | (iii) Others (landless) |  | Estimated cost (Rs. in lakh) | Expected month \& year of completion (mm/yyyy) | Expendi-ture incurred (Rs. in lakh) | Actual month \& year of completion (mm/yyyy) |
| West Garo Hills | $\begin{gathered} \text { W.G.H } \\ \text { IWMP-IX } \end{gathered}$ | Kitchen gardening | $\checkmark$ |  | Individual | Private | 3.50 | 31/3/2014 |  |  |
|  |  | Piggery |  |  | Individual | SHG/UG | 1.50 | 31/3/2012 |  |  |
|  |  | Poultry |  |  | SHG | SHG/UG | 1.50 | 31/3/2013 |  |  |
|  |  | Fishery cum piggery unit |  |  | SHG | Private | 1.50 | 31/3/2014 |  |  |
|  |  | Rubber Poly Bag | $\checkmark$ |  | SHG | SHG/UG | 5.25 | 31/3/2014 |  |  |
|  |  | Dugout Pond | $\checkmark$ |  | Individual | Private | 4.00 | 31/3/2014 |  |  |
|  |  | Total |  |  |  |  | 17.25 |  |  |  |

(Contd.)* from column no. 2, no. of States; from column no. 3, no. of Districts; from column no. 4, total no. of Projects; from column no. 5, activity-wise totals, from column no. 6, type-wise totals, from coulmn no. 7, agency-wise totals, from column no. 8, total estimated cost, from column no. 9 , total expenditure incurred, structure-wise no. of completed works, from column no. 10, item-wise totals, for the entire country may be indicated at the end of the table
@The activities given in this column are merely indicative and States are free to choose any other activity suited to the project area.

### 4.2.13 Details of allied / other activities:

|  | 8 |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Outcomes |  |  |  |  |  |  |  |  |  |  |  |
|  | Income (Rs.) |  | Mandays generated |  |  |  |  | No. of beneficiaries |  |  |  |  |
| Name of activities | Pre-project | Post project | SC | ST | Others | Women | Total | SC | ST | Others | Women | Total |
| Kitchen gardening | 5000-6000 | $\begin{aligned} & \hline 20,000- \\ & 25,000 \\ & \hline \end{aligned}$ |  | $\begin{aligned} & 240 \\ & 0 \\ & \hline \end{aligned}$ |  | 2100 | 4500 |  | 20 | NIL | 10 | 30 |
| Piggery | 25,000-30,000 | $\begin{aligned} & 60,000- \\ & 70,000 \end{aligned}$ |  | 350 |  | 650 | 1000 |  |  | NIL | 30 | 30 |
| Poultry | 13,000-15,000 | $\begin{aligned} & 40,000- \\ & 45,000 \end{aligned}$ |  | 430 |  | 570 | 1000 |  |  | NIL | 30 | 30 |
| Fingerlings | NIL | $\begin{aligned} & 50,000- \\ & 60,000 \\ & \hline \end{aligned}$ |  | 140 |  | 110 | 250 |  | 15 | NIL | 10 | 25 |
| Rubber budded poly bag nursery | NIL | $\begin{aligned} & \hline 85,000- \\ & 90,000 \end{aligned}$ |  | $\begin{array}{\|l\|} \hline 320 \\ 0 \end{array}$ |  | 1300 | 4500 |  |  | NIL | 30 | 30 |
|  | Total |  |  | $\begin{aligned} & \hline 652 \\ & 0 \end{aligned}$ |  | 4730 | 11250 |  | 35 |  | 110 | 145 |

### 14.3 Consolidation and withdrawal phase:

Details of activities in the CPRs in the project areas:


## CHAPTER V

PROJECT PHASING \& BUDGETING

CHAPTER V
PROJECT PHASING \& BUDGETING
ACTION PLAN OF UPPER DABANG WATERSHED UNDER IWMP TERRITORIAL DIVISION: TURA

Name of District :- West Garo Hills
Name of C\&RD Block:- TIKRIKILLA

No. of Villages: 2 nos
Project Area : 500 Ha

| $\begin{aligned} & \hline \text { Sl. } \\ & \text { No } \\ & \hline \end{aligned}$ | Activities | Ist Year(6\%) |  | IInd Year(14\%) |  | IIIrd Year(50\%) |  | IV Year(25\%) |  | V Year(5\%) |  | Total(in lakhs) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Phy | Fin | Phy | Fin | Phy | Fin | Phy | Fin | Phy | Fin | Phy | Fin |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 1 | MANAGEMENT COST: |  |  |  |  |  |  |  |  |  |  |  |  |
| A | Administrative Cost:-10\% |  |  | 2\% |  | 5\% |  | 3\% |  |  |  | 10\% |  |
| i | Honourarium of WDT Members @ Rs.8000/-month-1 no. |  |  |  | 0.96 |  | 0.96 |  | 0.96 |  |  |  | 2.88 |
| ii | Honourarium of Watershed Committee Chairman @ $500 /$ month |  |  |  | 0.01 |  | 0.06 |  | 0.02 |  |  |  | 0.09 |
| iii | Honourarium of WCM @ Rs. 200/Members/month for 9 nos. |  |  |  | 0.036 |  | 0.216 |  | 0.072 |  |  |  | 0.324 |
| iv | Honourarium of Charter Accountant |  |  |  | 0.15 |  | 0.15 |  | 0.15 |  |  |  | 0.45 |
| v | TA/DA/ of Field Asst. @ 5000/- month |  |  |  | 0.05 |  | 0.60 |  | 0.20 |  |  |  | 0.85 |
| vi | Hiring charges of office building @ 1000/ month |  |  |  | 0.02 |  | 0.12 |  | 0.12 |  |  |  | 0.26 |
| vii | Hiring charges of vehicle @ 5000/ month |  |  |  | 0.10 |  | 0.60 |  | 0.20 |  |  |  | 0.990 |
| viii | Office expenses, POL, Stationeries, Printing of SHG's books, pamphlets, tea, snacks ets, cost of camera. |  |  |  | 0.174 |  | 1.044 |  | 0.528 |  |  |  | 1.746 |
|  | TOTAL OF A: |  |  | 2\% | 1.50 | 5\% | 3.75 | 3\% | 0.528 |  |  | 10\% | 7.50 |
|  | PREPARATORY PHASE: 4\% |  |  |  |  |  |  |  |  |  |  |  |  |
| B | Entry Point Activities: | 4\% |  |  |  |  |  |  |  |  |  |  |  |
| i | Construction of Spring Chamber/Ringwell @Rs60,000/- each | $\begin{gathered} \hline 5 \\ \text { Nos. } \\ \hline \end{gathered}$ | 3.00 |  |  |  |  |  |  |  |  | 5 | 3.00 |
|  | TOTAL OF B: |  | 3.00 |  |  |  |  |  |  |  |  |  | 3.00 |


| C | Institution \& Capacity Building : - 5\% | 1\% |  | 2\% |  | 1\% |  | 1\% |  |  |  | 5\% |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| I | Awareness Campaign \& Capacity building of farmer | 1 | 0.20 | 1 | 0.20 | 1 | 0.20 |  |  |  |  | 3 | 0.60 |
| ii | Exposure visits - Off Campus | 1 | 0.35 | 1 | 0.30 | 1 | 0.35 |  |  |  |  | 3 | 1.00 |
| iii | Capacity building of SHG's/UG's. | 1 | 0.20 | 3 | 0.60 | 1 | 0.20 | 1 | 0.35 |  |  | 6 | 1.35 |
| iv | Capacity building of WC Members. |  |  | 1 | 0.20 |  |  | 1 | 0.20 |  |  | 2 | 1.00 |
| V | Capacity building of WDT/WV |  |  | 1 | 0.20 |  |  | 1 | 0.20 |  |  | 2 | 0.60 |
|  | Total of C: |  | 0.75 |  | 1.50 |  | 0.75 |  | 0.75 |  |  |  | 3.75 |
| D | Detailed Project Report: 1\% |  | 1\% |  |  |  |  |  |  |  |  |  |  |
| I | Cost of Resources Inventories works |  | 0.25 |  |  |  |  |  |  |  |  |  | 0.25 |
| ii | Cost of PRA Exercises |  | 0.10 |  |  |  |  |  |  |  |  |  | 0.10 |
| iii | Cost of Land use Survey works |  | 0.25 |  |  |  |  |  |  |  |  |  | 0.25 |
| iv | Cost of formulating |  | 0.15 |  |  |  |  |  |  |  |  |  | 0.15 |
|  | Total of $D$ : |  | 0.75 |  |  |  |  |  |  |  |  |  | 0.75 |
| E | Monitoring \& Evaluatio: 2\% |  |  |  |  |  |  |  |  |  |  |  |  |
| I | Cost of Monitoring |  |  | 0.2\% | 0.15 | 0.5\% | 0.375 | 0.3\% | 0.225 |  |  | 1\% | 0.75 |
| ii | Cost of Evaluation |  |  | 0.3\% | 0.225 | 0.5\% | 0.375 | 0.2\% | 0.15 |  |  | 1\% | 0.75 |
|  | Total of E: |  |  |  | 0.375 |  | 5.25 |  | 0.375 |  |  |  | 1.50 |
|  | TOTAL OF I ( A - E) |  | 4.50 |  | 3.375 |  | 5.25 |  | 3.375 |  |  |  | 16.50 |
| II | PROJECT COST WATERSHED WORKS PHASE: 50\% |  |  |  |  |  |  |  |  |  |  |  |  |
| A | Arable Land Treatment: |  |  |  |  |  |  |  |  |  |  |  |  |
| I | Wet terrace@20,000/-Ha(10-20\% slope) |  |  | 6 | 1.20 | 6 | 1.20 |  |  |  |  | 12 | 2.40 |
| ii | Rubber plantation pre-work@5,900/(40 ha) |  |  | 15 | 0.885 | 35 | 2.07 |  |  |  |  | 50 | 2.955 |
|  | 1st yr. planting @Rs.2,900/ha |  |  |  |  | 15 | 0.435 | 35 | 1.015 |  |  |  | 1.45 |
| iii | Arecanut plantation pre-works @Rs.5,900/30 ha |  |  | 10 | 0.59 | 20 | 1.18 |  |  |  |  | 30 | 1.77 |
|  | 1st yr. planting@ 2,900/ha |  |  |  |  | 10 | 0.29 | 20 | 0.580 |  |  |  | 0.87 |
|  | TOTAL OF - A |  |  |  | 2.68 |  | 5.17 |  | 1.60 |  |  |  | 9.45 |
| B | Non-Arable Land treatment: |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Improvement of degraded forest @3600/10 ha |  |  |  |  |  |  |  |  |  |  |  |  |
| I | Preliminary Works@700/-Ha |  |  | 10 | 0.07 |  |  |  |  |  |  | 10 | 0.07 |
| ii | $1^{\text {stY}}$ ear Planting @ 1900/- Ha |  |  |  | 0.19 |  |  |  |  |  |  |  | 0.19 |
|  | 2nd Year Planting @ 1000/-Ha |  |  | 10 | 0.10 |  |  |  |  |  |  |  | 0.10 |
|  | Total of B: |  |  |  | 0.36 |  |  |  |  |  |  |  | 0.36 |


| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| C | Drainage Line Treatment: |  |  |  |  |  |  |  |  |  |  |  |  |
| I | C.C.Check-Cum-Irrigation dam @2,50,000/ each - 95 На |  |  |  |  | 4 | 10.00 |  |  |  |  | 4 | 10.00 |
| ii | Stone masonery protection wall @50,000/each - 85 ha |  |  | 2 | 1.00 | 4 | 2.00 | 2 | 1.00 |  |  | 8 | 4.00 |
| iii | Dug-out pond @ $50,000 /$-each -15 ha |  |  | 3 | 1.50 | 3 | 1.50 | 1 | 0.50 |  |  | 7 | 3.50 |
| iv | Water harvesting farm pond @2,50,000/- each -127 ha |  |  |  |  | 3 | 7.50 | 1 | 2.50 |  |  | 4 | 10 |
| V | Earthern irrigation channel @Rs. $50 /-\mathrm{Rm} .-55 \mathrm{ha}$ |  |  | 180 | 0.090 | 160 | 0.08 | 60 | 0.03 |  |  | 400 | 0.20 |
|  | TOTAL-C |  |  |  | 2.59 |  | 21.08 |  | 4.03 |  |  |  | 27.7 |
|  | TOTAL OF A+B+C |  |  | 7.5\% | 5.625 | 35\% | 26.25 | 7.5\% | 5.625 |  |  | 5\% |  |
| D | Livelihood Activities for landless person: 10\% |  |  |  |  |  |  |  |  |  |  |  |  |
| ii | Kitchen garden @2,500/unit |  |  | 30 | 0.75 | 50 | 1.25 | 60 | 1.50 |  |  | 140 | 3.50 |
| iii | Dug-out pond @50,000/-each-15 ha |  |  |  |  | 2 | 1.00 | 6 | 3.00 |  |  | 8 | 4.00 |
|  | Total of D: |  |  | 1\% | 0.75 | 3\% | 2.25 | 6\% | 4.50 |  |  | 10\% | 7.50 |
| E | Production system and Micro Enterprises (SHG's) - 13\% |  |  |  |  |  |  |  |  |  |  |  |  |
| I | Piggery unit @Rs.30,000 /- per unit |  |  |  |  | 1 | 0.30 | 4 | 1.20 |  |  | 5 | 1.50 |
| ii | Poultry unit @Rs.30,000 /- per unit |  |  |  |  | 1 | 0.30 | 4 | 1.20 |  |  | 5 | 1.50 |
| iii | Fishey-cum-piggery unit @25,000 /- each |  |  |  |  |  |  | 6 | 1.50 |  |  | 6 | 1.50 |
| iv | Group Rubber nursery @ 25000 /- per plant |  |  | 3000 | 0.75 | 12600 | 3.15 | 5400 | 1.35 |  |  | 21000 | 5.25 |
|  | Total of E: |  |  | 1\% | 0.75 | 5\% | 3.75 | 7\% | 5.25 |  |  | 13\% | 9.75 |


| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| F | Consolidation \& Exit Phase: |  |  |  |  |  |  |  |  |  |  |  |  |
| I | Repairing maintanance of CPR's |  |  |  |  |  |  |  |  |  | 1.75 |  | 1.75 |
| ii | Improveing the sustainability of various intervention |  |  |  |  |  |  |  |  |  | 1.00 |  | 1.00 |
| iii | Documentation of successful experience and preparation of complation report |  |  |  |  |  |  |  |  |  | 1.00 |  | 1.00 |
|  | Total of F : |  |  |  |  |  |  |  |  |  | 3.75 |  | 3.75 |
|  | Total of II ( $\mathrm{A}+\mathrm{B}+\mathrm{C}+\mathrm{D}+\mathrm{E}+\mathrm{F}$ ) |  |  |  | 7.125 |  | 32.25 |  | 15.375 |  | 3.75 |  | 58.50 |
|  | Grand Total (I+II) | 6\% | 4.50 | 14\% | 10.50 | 50\% | 37.50 | 25\% | 18.75 | 5\% | 3.75 | 100\% | 75.00 |

## VILLAGEWISE ACTION PLAN OF UPPER DABANG MICRO WATERSHED UNDER IWMP - II TERRITORIAL DIVISION : TURA .

Name of District : West Garo Hills
Name of C.\& R.D. Block: Tikrikilla

No. of village : 2 nos.
Project Area : 250.00 Ha .


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

| 1 | 2 | 3 | 4 | 5 | 6 <br> Project <br> duration <br> $(\mathrm{dd} / \mathrm{mm} /$ <br> yyyy) |  | 7 | 8 | 9 |  |  | 0 |  |  |  | 11 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| S | Name of State | Name of Distric ts | Names <br> of <br> Project <br> s | Year of sanct ion |  |  | Area of the project s | Projec t cost (Rs. In lakh) | $\begin{gathered} \hline \text { Names of } \\ \text { Micro } \\ \text { watersheds \& } \\ \text { Code nos. (as } \\ \text { per DoLR's } \\ \text { unique } \\ \text { codification) } \\ \hline \end{gathered}$ | Treated Area (ha) of the projects |  |  |  | Treated Area details (ha) (falling within the projects) |  |  |  |  |
| o |  |  |  |  | From | To |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | Cultiv <br> ated <br> rainfe <br> d area | Cultiv <br> ated <br> irrigat <br> ed <br> area | Uncult wast | vated <br> land | Agri. <br> Land | Fores t land (open ) | Com <br> m <br> unity <br> land | Others (pl. specify ) | Total area <br> (ha) |
|  |  |  |  |  |  |  |  |  |  |  |  | a) <br> Tempor ary fallow | b) Per manent |  |  |  | Horti. |  |
| 1 | Meghalay a | West Garo Hills | W.G.H IWMP -IX | 2010 | 2010 | $\begin{gathered} 31 / 3 \\ / \\ 2015 \end{gathered}$ | 500 | 7.5 | Upper <br> Dabang | 0 | 490 | 10 | 0 | 95 | 30 | 0 | 375 | 500 |

Fund provision for the IWMP projects from all sources:

| 1 | 2 |  |  |  |  |  |  | 4 |  |  |  |  |  | 5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| District | Name <br> of <br> Projec <br> ts | IWMP Fund |  | Funds from other sources in addition to IWMP funds |  |  |  |  |  |  |  |  |  | Total |
|  |  |  |  | Convergence funds |  | PPP |  | Community |  | Institutional finance |  | Others (Pl. specify) |  |  |
|  |  | Centra 1 Share | State <br> Share | Name of Scheme | Amount (Lakhs) | Name of private sector | Financial contribution | Name | Financial contribution | Name | Financi al contribution | Name | Financial contribution |  |
| Meghala ya | $\begin{gathered} \text { W.G. } \\ \text { H } \\ \text { IWMP } \\ \text {-IX } \end{gathered}$ | 67.50 | 7.50 | NREGS | 15 | NIL | NIL | NIL | NIL | NIL | NIL | NIL | NIL | 90 |

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

| 1 | 2 | 3 | 4 | 5 |  |  |  | 6 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Distt. Agency's Project Account details |  |  |  | Watershed Committee (WC) account details: |  |  |  |  |
| $\begin{aligned} & \text { Sl. } \\ & \text { No. } \end{aligned}$ | Names of States | Name of Districts | Names of Projects | Name of the Bank and Branch where project account has been opened | Account Number (to be obtained confidentially) | Account type (Savings/ Current/ Others) |  <br> Designatio n of authorized persons who operate the account. | Name of Watershed Committee | Name of the Bank and Branch where project account has been opened | Account number (to be obtained confidentially | Account type (Savings/ current others) | Name \& Designation of authorized persons who operate the account. |
| 1 | Megha laya | W.G.H | W.G.H <br> IWMP- <br> IX | - | - | - | - | Upper <br> Dabang <br> Micro <br> Watershed | S.B.I <br> Lower Chandmary | $\begin{gathered} 3162950 \\ 4368 \end{gathered}$ | Saving | Chairman W.C <br> Secretary W.C <br> Project <br> Leader/WD T |

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



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

CHAPTER VI
CAPACITY BUILDING

## CHAPTER VI

## CAPACITY BUILDING

Capacity Building is a process to systematically upgrade the skill of individuals or groups for achieving a specific target. Capacity building in the project has been planned for all the stake holders involved i.e. State Level, District Level, Project Level and Village Level. The relevant details pertaining to Capacity Building has been shown below.
Table 6.1: List of approved Training Institutes for Capacity Building:

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Name of the Training Institute | Full Address with contact no., website \& e-mail | Name \& | Type of Institute ${ }^{\#}$ | Area(s) of specialization ${ }^{\$}$ | Accreditation details | Performance |  |  |  |  |
| $\begin{aligned} & \text { S. } \\ & \text { No } \end{aligned}$ | State |  |  | Designation of the Head of Institute |  |  |  | Reference Year | No. of trainings assigned | No. of trainees to be trained | No. of trainings conducted | No. of trainees trained |
| 1 | $\begin{aligned} & \frac{\pi}{6} \\ & \frac{\pi}{\sigma} \\ & \frac{\pi}{60} \\ & \sum_{2}^{\infty} \end{aligned}$ | $\begin{aligned} & \hline \text { NIRD } \\ & \text { (NER) } \end{aligned}$ | Guwahati | Director | Central Govt. | Remote Sensing, Rural Devt. | NA | - | - | - | - | - |
| 2 |  | SIRD | Nongsder | Director | State Govt. | Capacity Building | NA | - | - | - | - | - |
| 3 |  | RRTC | Umran <br> Meghalaya | Director | Don-Bosco | Agri-Horti, Animal Husbandry, Entrepreneurship | NA | - | - | - | - | - |
| 4 |  | $\begin{aligned} & \text { ICAR/KV } \\ & \text { IC } \end{aligned}$ | Umiam/Tura Meghalaya | Director | Central Govt. | Do | NA | - | - | - | - | - |
| 5 |  | MRDS | Shillong <br> Meghalaya | Director | State Govt. | Animal Husbandry | NA | - | - | - | - | - |
| 6 |  | NEHU | Shillong/Tura Meghalaya | Director | Central Govt. | Agri-Horti, Fruit Processing | NA | - | - | - | - | - |

- From Column no. 2, total no. of States implementing the programme, from Column no. 3, no. of training institutes, from column No. 9, total no. of category-wise trainings and trainees may be given at the end of the table for the entire country
- \# Central govt. Dept./ State govt. Dept./ Autonomous Body/ Research Institutes/ Universities/ Others (pl. specify)
\$ Capacity Building/ Agriculture/ Horticulture/ Animal Husbandry/ Pisciculture/ Remote Sensing/ Water conservation/ Ground water/ Forestry/ livelihoods/ entrepreneurship development/ others (pl. specify)
${ }^{@}$ The training institutes must fulfill the conditions mentioned in the operations guidelines.
(i) Technical experts in fields required by IWMP
(ii) Past experiences
(iii) Annual Turnover
(iv) Receives funds either from the Central or State Government
(v) Publications
(vi) Not blacklisted by any Govt. organizations
(vii) Audited accounts
(viii) Organizational structure

Table 6.2: Capacity Building activities for the year $\underline{2010-11}$ as on $\underline{31 / 03 / 2010}$ ( $\mathrm{dd} / \mathrm{mm} / \mathrm{yyyy}$ )*

| 1 | 2 | 3 | 4 | 5 |  | 6 |  | 7 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Project Stakeholders | Total no. of persons | No. of persons trained so far | No. of persons to be trained during current financial year | No. of persons trained during current financial year | Sources of funding for training |  | Funds utilized (Lakhs) |  |
|  |  |  |  |  | a) DoLR | b) Any other (Pl. specify) | a) DoLR | b) Any other <br> (Pl. specify) |
| PIAs | 10 | NIL | 10 | NIL | 3.75 | NIL | 0.75 | NIL |
| WDTs | 5 | NIL | 4 | NIL |  |  |  |  |
| UGs | 40 | NIL | 40 | NIL |  |  |  |  |
| SHGs | 50 | NIL | 50 | NIL |  |  |  |  |
| WCs | 11 | NIL | 11 | NIL |  |  |  |  |
| GPs | NIL | NIL | NIL | NIL |  |  |  |  |
| Community | 280 | NIL | 150 | NIL |  |  |  |  |
| Others Pl. specify) |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| TOTAL | 396 | 0 | 266 | 0 | 3.75 | 0 | 0.75 | 0 |

Table 6.3: Information, Education \& Communication (IEC) activities for the year $\underline{10-11}$ as on $\underline{\mathbf{3 1 / 0 3} / 10}$ ( $\mathrm{dd} / \mathrm{mm} / \mathrm{yyy}$ )*

|  | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ |
| :---: | :--- | :---: | :---: | :---: | :---: |
|  | Activity | Executing agency | Estimated expenditure <br> (Rs.) | Expenditure <br> incurred <br> (Rs.) | Outcome <br> (may quantity, wherever <br> possible) |
| 1. | Awareness | S\&WC (T) Division | 0.25 | - | - |
| 2. | Exposure Visits | S\&WC (T) Division | 0.25 | - | - |
| 3. | Capacity Building | S\&WC (T) Division | 0.15 | - | - |
|  |  | Total | 0.75 | - | - |

## CHAPTER VII

EXPECTED OUTCOME

## CHAPTER VII <br> EXPECTED OUTCOME

Table 7.1 Employment related outcomes:

| $\begin{gathered} \text { Sl } \\ \text { No } \end{gathered}$ | Name of Village | 1 |  |  |  |  |  |  |  |  |  | 2 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Wage employment |  |  |  |  |  |  |  |  |  | Self employment |  |  |  |  |
|  |  | No. of mandays |  |  |  |  | No. of beneficiaries |  |  |  |  | No. of beneficiaries |  |  |  |  |
|  |  | SC | ST | Others | Women | Total | SC | ST | Others | Women | Total | SC | ST | Others | Women | Total |
| 1. | Dabang Gajingpara |  | 12600 | - | 7120 | 19720 | - | 120 | - | 110 | 230 | - | 25 | - | 18 | 43 |
| 2. | Dabang <br> Ampangdamgre |  | 6300 | - | 3580 | 9880 | - | 64 | - | 53 | 117 | - | 15 | - | 8 | 23 |
|  | Total |  | 18900 | - | 10700 | 29600 | - | 184 | - | 163 | 347 | - | 40 | - | 26 | 66 |

Table 7.2 Migration Details:

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

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

Table 7.3 Economic benefits accrued to women:

| 1 |  | 2 |  | 3 |  | 4 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Wages |  | Training |  | Livelihoods |  | Total (Rs. in lakh) |
| Woman days | Amount (Rs. in lakh) | No. of women participants | Amount (Rs. in lakh) | No. of women beneficiaries | Value of assistance provided (Rs. in lakh) |  |
| 10,700 | 10.70 | 66 | 0.40 | 20 | 3.00 | 14.10 |

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

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

| 1 | 2 | 3 | 4 | 5 | 6 | 7 |  |  |  | 8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Names of the Districts | Names of the projects | Names of the villages | Particular of CPR | Nature of right | Period of right | Beneficiary details (no. of families) |  |  |  | User Charges (Rs.) |
|  |  |  |  |  |  | SC | St | Others | Total |  |
| Meghalaya | $\begin{gathered} \text { W.G.H } \\ \text { IWMP-IX } \end{gathered}$ | Dabang Gajingpara | Reserved forest | $\begin{gathered} \hline \text { FW/MFP/ } \\ \mathrm{T} \\ \hline \end{gathered}$ | Unspecified |  | 43 |  | 43 | NIL |
|  |  |  | Spring Chamber | Wd | Unspecified |  | 18 |  | 18 | NIL |
|  |  |  | Check dam | Wi | Unspecified |  | 30 |  | 30 | NIL |
|  |  |  | Irrigation Channel | Wi | Unspecified |  | 30 |  | 30 | NIL |
|  |  | Dabang <br> Ampangdamgre | Reserved forest | FW/MFP/ $\mathrm{T}$ | Unspecified |  | 23 |  | 23 | NIL |
|  |  |  | Spring Chamber | Wd | Unspecified |  | 12 |  | 12 | NIL |
|  |  |  | Check dam | Wi | Unspecified |  | 15 |  | 15 | NIL |
|  |  |  | Irrigation Channel | Wi | Unspecified |  | 15 |  | 15 | NIL |

* 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. $\mathrm{M}(\mathrm{SP}) 10$, 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 |

## Table 7.5 Water related outcomes:

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

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Names of Districts | Names of Projects | Sources | Pre-Project level | Mid-term project level | Post-Project level | Increase/decrease (Col. 8 - Col. 6) | Remarks |
| Meghalaya | $\begin{gathered} \text { W.G.H } \\ \text { IWMP-IX } \end{gathered}$ | Open Well | NA | NA | NA | NA | NA |
|  |  | Bore Well | NA | NA | NA | NA | NA |
|  |  | Other (specific) Spring | NA | NA | NA | NA | NA |

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

Table 7.5.2 Status of Drinking water:

| 1 | 2 |  | 3 |  |  | 4 |  | 5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| District | Name of the project | Availability of drinking water (no. of monyhs in a year) |  |  | Quality of drinking water |  |  | Comments |
|  |  | Pre-project | Postproject | Change in availability | $\begin{gathered} \text { Pre- } \\ \text { project } \end{gathered}$ | Postproject | Change in quality |  |
| Meghalaya | $\begin{gathered} \text { WGH } \\ \text { IWMP-IX } \end{gathered}$ | 10 months | 12 months | 2 months | Unsafe | Potable | Improved | Better drinking water supply |
|  |  |  |  |  |  |  |  |  |

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

Table 7.5.3 Water Use efficiency:

| 1 | 2 | 3 | 4 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Name of the project | Name of major crop | Water savings in cum. |  |  |  |
| District |  |  | through water saving devices ${ }^{\$}$ | through water conserving agronomic practices* | Any other (pl specify) | Total |
| W.G.H | $\begin{gathered} \text { WGH } \\ \text { IWMP-IX } \end{gathered}$ | Paddy | NA | NA | NA |  |
|  |  | Maize | NA | NA | NA |  |

* From column no. 2, total number of States implementing the programme, from column no. 3, total no. of Districts; from column no. 4, total no. of projects, from column no. 6, practice-wise totals may be mentioned at the end of the table for the entire country.
${ }^{\$}$ Sprinkler, Drip, PVC pipe, etc.
\# Vermi-compost, organic manuring, Mulching, Check basin, Alternate furrow, Ridges \& furrow \& other scientific practices.

Table 7.6: Vegetation/ crop related outcomes:
Table 7.6.1 Details of Karif crop area and yield in the project areas:

| 1 | 2 | 3 |  |  |  |  |  |  |  |  |  | 5 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Names of the Districts | Name of Projects | Name of crops | Pre-project |  |  |  |  |  | Mid-term |  |  |  |  |  | Post-project |  |  |  |  |  |
|  |  |  | Area <br> (ha) |  | Average Yield (Qtl) per ha. |  | Total Production (Qtl) |  | Area <br> (ha) |  | Average Yield per ha (Qtl) |  | Total Production (Qtl) |  | Area <br> (ha) |  | Average Yield per ha (Qtl) |  | Total Production (Qtl) |  |
|  |  |  | Irri | Rf. | Irri | Rf. | $\underset{\mathbf{i}}{\mathbf{I r r}}$ | Rf. | Irri | Rf. | Irri | Rf. | Irri | Rf. | Irri | Rf. | Irri | Rf. | Irri | Rf. |
| W.G.H |  | Paddy |  | 22.06 |  | 18 |  | 397.08 | $\begin{gathered} 22.0 \\ 6 \end{gathered}$ | 5 | 36 | 18 | 794.16 | 90 | 27.06 | 25 | 36 | 18 | 974.16 | 450 |
|  |  | Maize |  | 18.00 |  | 15 |  | 270 | 0 | 18 | 0 | 15 | 0 | 270 | 0 | 18 | 0 | 15 | 0 | 270 |
|  |  | Vegetable |  | 5 |  | 25 |  | 125 | 6 | 5 | 30 | 25 | 180 | 125 | 6 | 5 | 30 | 25 | 180 | 125 |
|  |  | Total |  | 45.06 |  | 58 |  | 792.08 | 28.0 6 | 28 | 66 | 58 | 974.16 | 485 | 33.06 | 48 | 66 | 58 | 1154.16 | 845 |

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

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

| 1 | 2 | 3 | 4 | 5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 8 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{gathered} \text { Sl } \\ \text { No } \end{gathered}$ | Names of States | Names of the Districts | Name <br> of <br> Proje cts | Name of crops | Pre-project |  |  |  |  |  | Mid-term |  |  |  |  |  | Post-project |  |  |  |  |  |
|  |  |  |  |  | Area <br> (ha) |  | Average Yield (Qtl) per ha. |  | Total Producti on (Qtl) |  | Area <br> (ha) |  | Average Yield per ha (Qtl) |  | Total Production (Qtl) |  | Area <br> (ha) |  | Average Yield per ha (Qtl) |  | Total Production (Qtl) |  |
|  |  |  |  |  | $\begin{gathered} \text { Irr } \\ \mathbf{i} \end{gathered}$ | Rf. | Irri | Rf. | Irri | Rf. | Irri | $\begin{aligned} & \mathbf{R} \\ & \mathbf{f .} \end{aligned}$ | Irri | Rf. | Irri | $\begin{aligned} & \mathbf{R} \\ & \mathbf{f} . \end{aligned}$ | Irri | R | Irri | Rf. | Irri | R <br> $\mathbf{f}$. |
|  | Meghalay | West | WGH | Paddy | - | - | - | - | - | - | 22.06 | - | 36 | - | 794.16 | - | 27.06 | - | 36 | - | 974.16 | - |
|  |  | Garo Hills | $\begin{aligned} & \text { IWM } \\ & \text { P-IX } \end{aligned}$ | Vegetabl es | - | - | - | - | - | - | 6 | - | 30 | - | 180 | - | 6 | - | 30 | - | 180.00 | - |
|  |  |  |  | Total | - | - | - | - | - | - | 28.06 | - | 66 | - | 974.16 | - | 33.06 | - | 66 | - | 1154.66 |  |

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

Irri. - Irrigated Rf-Rainfed

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

| 1 | 2 | 3 | 4 | 5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{gathered} \text { Sl } \\ \text { No } \end{gathered}$ | Names of States | Names of the Districts | $\begin{gathered} \text { Name } \\ \text { of } \\ \text { Project } \\ s \end{gathered}$ | $\begin{aligned} & \text { Name } \\ & \text { of } \\ & \text { crops } \end{aligned}$ | Pre-project |  |  |  |  |  | Mid-term |  |  |  |  |  | Post-project |  |  |  |  |  |
|  |  |  |  |  | Area <br> (ha) |  | Average Yield (Qtl) per ha. |  | Total Producti on (Qtl) |  | Area <br> (ha) |  | Average Yield per ha (Qtl) |  | Total Productio n (Qtl) |  | Area <br> (ha) |  | Average <br> Yield per ha (Qtl) |  | Total Productio n (Qtl) |  |
|  |  |  |  |  | Irri | Rf. | Irri | Rf. | Irri | Rf. | Irri | Rf. | Irri | Rf. | Irri | Rf. | Irri | Rf. | Irri | Rf | Irri | Rf. |
|  | Meghalay <br> a | West Garo Hills | WGH IWMPIX |  | nil | nil | nil | nil | nil | nil | nil | nil | nil | nil | nil | nil | nil | Nil | nil | nil | nil | nil |
|  |  |  |  |  | nil | nil | nil | nil | nil | nil | nil | nil | nil | nil | nil | nil | nil | Nil | nil | nil | nil | nil |
|  |  |  |  |  | nil | nil | nil | nil | nil | nil | nil | nil | nil | nil | nil | nil | nil | Nil | nil | nil | nil | nil |
|  |  |  |  | Total | nil | nil | nil | nil | nil | nil | nil | nil | nil | nil | nil | nil | nil | Nil | nil | nil | nil | nil |

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

Irri. - Irrigated Rf-Rainfed

Table 7.6.4 Increase/ Decrease in area under fodder:

| 1 | 2 | 3 | 4 |  |  | 5 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Name of project | Duration of Project | Existing area under fodder (ha) |  |  | Achievement (ha) |  |  |
| District |  |  | Source/Name of report | Year of reference | Area already under fodder | Area under fodder proposed to be covered through IWMP | Area under fodder actually covered through IWMP | Change in area under fodder |
| W.G.H | $\begin{gathered} \text { W.G.H } \\ \text { IWMP-IX } \end{gathered}$ | 5 yrs | NA | NA | NA | NIL | NIL | NIL |
|  |  |  |  |  |  |  |  |  |

[^0] from column nos. $6 \& 7$, total area in ha may be given at the end of the table for the entire country.

Table 7.6.5 Increase/ Decrease in Forest/vegetation cover:

| 1 | 2 | 3 | 4 |  |  | 5 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Name of project | Duration of Project | Existing area tree cover (ha) |  |  | Achievement (ha) |  |  |
| District |  |  | Source/Name of report | Year of reference | Area already under forest/vegetative cover | Forest/vegetative cover area proposed to be covered under IWMP | Forest/vegetative cover area actually covered under IWMP | Change in forest/vegetative cover area |
| W.G.H | W.G.H IWMPIX | 5 yrs | Land use survey conducted by the Department | 2010 | 25 | 10 | - | 35 |
|  |  |  |  |  |  |  |  |  |

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

Table 7.6.6 Increase/ Decrease in area under horticulture:

| 1 | 2 | 3 | 4 |  |  | 5 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Duration of Project | Existing area under horticulture (ha) |  |  | Achievement (ha) |  |  |
| District | Name of project |  | Source/Name of report | Year of reference | Area already under horticulture | Area under horticulture proposed to be covered through IWMP | Area under horticulture actually covered through IWMP | Change in area under horticulture |
| W.G.H | $\begin{gathered} \text { W.G.H } \\ \text { IWMP-IX } \end{gathered}$ | 5 yrs | Land use survey conducted by the Department | 2010 | 66.02 | 70 | - | 136.02 |
|  |  |  |  |  |  |  |  |  |

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

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

| 1 | 2 | 3 | 4 |  |  | 5 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Name of project | Duration of Project | Existing area under fodder (ha) |  |  | Achievement (ha) |  |  |
| District |  |  | Source/Name of report | Year of reference | Area already under fuelwood | Area under fuelwood proposed to be covered under IWMP | Area under fuelwood actually covered under IWMP | Change in area under fuel-wood |
| W.G.H | $\begin{gathered} \text { W.G.H } \\ \text { IWMP-IX } \end{gathered}$ | 5 yrs | NIL | NIL | NIL | NIL | NIL | NIL |
|  |  |  |  |  |  |  |  |  |

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

Table 7.7 Livelihood related outcomes:
Table 7.7.1 Details of livestock in the project areas (for fluids please mention in litres, for solids please mention in kgs. and income in Rs.):

| 1 | 2 | 3 | 4 |  |  | 5 |  |  | 6 |  |  | 7 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Names of the Districts | Name of Projects | Type of Animal | Pre-project |  |  | Mid-term |  |  | Post-project |  |  | Remarks |
|  |  |  | No. | Yield | Income | No. | Yield | Income | No. | Yield | Income |  |
| West Garo Hills | $\begin{gathered} \text { W.G.H } \\ \text { IWMP-IX } \end{gathered}$ | Cattle | 210 |  | 16.80 | 210 |  | 16.80 | - | - | - | Use for ploughing \& local consumption self production earning. |
|  |  | Piggery | 35 |  | 2.45 | 45 |  | 3.60 | 60 |  | 4.80 |  |
|  |  | Poultry | 1221 |  | 3.05 | 1321 |  | 3.96 | 1500 |  | 4.50 |  |
|  |  | Goatery | 107 |  | 1.60 | 107 |  | 1.60 | - | - | - |  |
|  | Total for all projects |  | 1573 |  | 23.90 | 1683 |  | 25.96 | 1560 |  | 9.30 |  |

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

Table 7.7.2 Details of other livelihoods created for landless people:

| 1 | 2 | 3 | 4 | 5 |  |  |  | 6 | 7 |  |  |  |  | 8 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Project | Name of activity | Fund require d for the activity (Rs.) | Sources of funding (Rs.) |  |  |  | Actual Expenditur eincurred onactivity (Rs) | No. of beneficiaries trained |  |  |  |  | No. of beneficiaries taking upactivity |  |  |  |  |
| District |  |  |  | Project Fund | Benefi -ciary | Others (pl. specify | $\begin{gathered} \text { Tot } \\ \text { al } \end{gathered}$ |  | SC | ST | Othe rs | $\begin{gathered} \text { Wome } \\ \mathbf{n} \end{gathered}$ | $\begin{gathered} \text { Tot } \\ \text { al } \end{gathered}$ | SC | ST | $\begin{gathered} \text { Oth } \\ \text { ers } \end{gathered}$ | $\begin{aligned} & \text { Wome } \\ & \mathbf{n} \end{aligned}$ | Total |
| $\begin{aligned} & \hline \text { West } \\ & \text { Garo } \\ & \text { Hills } \end{aligned}$ | WGH IWMPIX | Kitchen garden | - | 3.50 | - | - | 3.50 | - | - | - | - | - | - | - | - | - | - | - |
|  |  | Dug out Pond | - | 4.00 | - | - | 4.00 | - | - | - | - | - | - | - | - | - | - | - |
|  |  |  |  |  |  |  |  | - | - | - | - | - | - | - | - | - | - | - |
|  |  | Total | - | 7.50 | - | - | 750 | - | - | - | - | - | - | - | - | - | - | - |
|  |  |  |  |  |  |  |  | - | - | - | - | - | - | - | - | - | - | - |

(Contd.)

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

Table 7.7.3 Details of other livelihoods created for landless people:

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

Table 7.7.4 Details of other livelihoods created for farmers:

| 1 | 2 | 3 | 4 | 5 |  |  |  | 6 |  |  | 7 |  |  |  | 8 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Name of activity | Fund required for the activity (Rs.) in lakhs | Sources of funding (Rs.) in Lakhs |  |  |  | Actual Expenditure incurred on activity (Rs.) | No. of farmers trained |  |  |  | No. of farmers taking up activity |  |  |  |
| District | Project |  |  | Project Fund | Benefi -ciary | Others (pl. specify) | Total |  | SF | MF | LF | Total | SF | MF | LF | Total |
| West Garo Hills | WGH IWMPIX | Wet terrace | 2.40 | 2.40 | NIL | NIL | 2.40 | - | 10 | - | - | 10 | 10 | - | - | 10 |
|  |  | Dug-out pond | 4.00 | 4.00 | NIL | NIL | 4.00 | - | 18 | - | - | 18 | 18 | - | - | 18 |
|  |  | Rubber <br> Plantation | 4.40 | 4.40 | NIL | NIL | 4.40 | - | 40 | - | - | 40 | 40 | - | - | 40 |
|  |  | Arecanut Plantation | 2.64 | 2.64 | NIL | NIL | 2.64 | - | 30 | - | - | 30 | 30 | - | - | 30 |
|  |  | Total | 13.44 | 13.44 | 0 | 0 | 13.44 | - | 98 | - | - | 98 | 98 | - | - | 98 |

* 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, categorywise totals, for the entire country may be given at the end of the Table.

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

| 9 |  | 10 | 11 |  |  |  | 12 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No. of persons employed indirectly in the activity |  | Annual increase in income due to activity (Rs.) | Impact of livelihoods programme |  |  |  | Any other information (pl. Specify) |
|  |  | Migration(No. of beneficiaries) | Development of backwardforward linkages |  |  |
| Total |  |  | Pre-project | Post-project | Pre-project | Post-project |  |
| 10 | 20 |  | 10,000-12,000 | NIL | NIL | NIL | NIL | - |
| 18 | 36 | 30,000-35,000 | NIL | NIL | NIL | NIL | - |
| 40 | 80 | 25,000-30,000 | NIL | NIL | NIL | NIL | - |
| 30 | 60 | 35,000-40,000 | NIL | NIL | NIL | NIL | - |

Table 7.8 Marketing related outcomes:
Backward-Forward linkages*

| 1 | 2 | 3 | 4 | 5 | 6 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| District | Project | Type of Marketing Facility | Pre-project (no.) | During the project (no.) | Post-project (no.) |
| WGH | IWMP-IX | (A) Backward linkages |  | - | - |
|  |  | (i) Seed certification | Nil | - | - |
|  |  | (ii) Seed supply system | Nil | - | - |
|  |  | (iii) Fertilizer supply system | Nil | - | - |
|  |  | (iv) Pesticide supply system | Nil | - | - |
|  |  | (v) Credit institutions | Nil | 1 | 1 |
|  |  | (vi) Water supply | Nil | 1 | 1 |
|  |  | (vii) Extension services | Nil | - | - |
|  |  | (viii) Nurseries | Nil | - | - |
|  |  | (ix) Tools/machinery suppliers | Nil | - | - |
|  |  | (x) Price Support system | Nil | - | - |
|  |  | (xi) Labour | Nil | - | - |
|  |  | (xii) Any other (please specify) | Nil | - | - |
|  |  | (A) Forward linkages |  |  |  |
|  |  | (i) Harvesting/threshing machinery | Nil | - | - |
|  |  | (ii) Storage (including cold storage) | Nil | - | - |
|  |  | (iii) Road network | 1 | 1 | 1 |
|  |  | (iv) Transport facilities | Nil | - | - |
|  |  | (v) Markets / Mandis | Nil | - | - |
|  |  | (vi) Agro and other Industries | Nil | - | - |
|  |  | (vii) Milk and other collection centres | Nil | - | - |
|  |  | (viii) Labour | Nil | 10 | 10 |
|  |  | (ix) Any other (please specify) | Nil | - | - |

[^1] 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 7.10 Cost effectiveness of structures/ activities*

| $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| District | Name of <br> project | Name of <br> WC | Name of <br> structure/ <br> activity | Estimated <br> cost (Rs.) | Expected <br> quantifiable <br> benefits (Rs.) | Expenditure <br> incurred (Rs.) | Actual <br> quantifiable <br> benefit (Rs.) | Benefit: <br> Cost ratio |
| WGH | WGH <br> IWMP_IX | Upper <br> Dabang | As per action <br> plan | 54.75 | 74.55 | - | - | $1: 1.45$ |

* 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 effectivess than 1 - Not cost effective


## ANNEXTURE I MAPS



## AGROCLIMATIC ZONE MAP




## LAND USE LAND COVER MAP






## ANNEXTURE III COST ESTIMATES

## MODEL NORMS PER HACTARE FOR TERRACING ( IWMP )

A. Technical Parameters .
i) Average terrace width recommended (m) ..... 15.00
ii) Vertical Interval $($ VI $)=W \times S / 100-S$ ..... 2.5
iii) Terrace Length $(m)=A / W+V I$ ..... 767.00
iv) Earthwork $=12.50 \times \mathrm{W} \times \mathrm{S}^{3}$ ..... 1200.00
v) Shoulder Bund Length ..... 779.00
vi) Shoulder Bund Length $x$-section ( $m^{2}$ ) ..... 0.08
vii) Earthwork for shoulder Bund ( $m^{3}$ ) ..... 62.32
viii)Area available for cultivation (Ha.) ..... 0.87
B. Cost estimate . Amount.
i) Jungle clearance including uprooting of stumps (L/s) ..... 2000.00
ii) Cost of terracing @ Rs. 10/- m ${ }^{3}$ ..... 15000.00
iii) Cost of shoulder Bund @ Rs. 7/-m³ ..... 850.00
iv) Dressing, shaping and grading of terrace ..... 950.00
v) Water Disposal structure (L/s)1200.00
G. Total ..... 20000.00
(Rupees twenty thousand) only.

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

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

A.
Preliminary

## works.

| i) site clearance 3 mandays @ Rs. 100/- each | Rs. | 300.00 |
| :---: | :---: | :---: |
| ii) Pit digging ( $0.30 \times 0.30 \times 0.30$ ) m 100 nos. @ Rs. 4/- each |  | 400.00 |
| sub-total |  | s. 700.00 |

I st year
B.
Planting.

| I) Cost of planting material 100 nos. @ Rs. 8/- each | Rs. | 800.00 |
| :---: | :---: | :---: |
| ii) Cost of planting 100 nos. @ Rs. 2/- each | Rs. | 200.00 |
| iii) Round weeding 4 times - 5 mandays @ Rs. 100/- each | Rs. | 500.00 |
| iv) Plant protection measures 4 mandays @ Rs. 100/- each | Rs. | 400.00 |

c.
Il year
Planting.

| i) Refilling 10\% | Rs. 100.00 |  |  |
| :--- | :--- | :--- | :--- |
| ii) Round weeding - 4 times- 5 mandays @ Rs. 100/- each | Rs. 500.00 |  |  |
| iii) Plant protection measures - 4 mandays @ Rs. 100/-each | Rs. | 400.00 |  |
|  |  | Sub-total | Rs. 1000.00 |
|  |  | Grand Total | Rs. 3600.00 |

## MODEL NORMS PER HACTARE FOR RUBBER CULTIVATION .

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

## Preliminary works

A.
$=$
i) Cost of seedling .... L/s................. Rs. 800.00
ii) Box terracing including pit digging ( $0.45 \times 0.45 \times 0.45$ ) m ..L/s...

| $\ldots . . . . . . . . . . . R s$. | 1350.00 |  |
| :--- | :--- | :--- | :--- |
| sub-total Rs. | 9000.00 | $\underline{500.00}$ |
| 1300.00 |  |  |

## B. Ist Year Planting.

i) Cost of Fertilisers (NPK 45:30:45) including transportation
ii) Cost of 2 times application (June-July and September - October)

14 mandays @ Rs. 100/- each
iii) 1st year weeding

Rs. 2000.00

Rs. 1400.00
Rs. 1200.00
Sub-total Rs. 4600.00
C. II nd year maintenance .
i) 2nd year weeding $\qquad$
Sub-total Rs. 2700.00

Grand Total
Rs. 8600.00
(Rupeeseight thousand six hundred) only.

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

A. Piggery;
i) Construction of sty @ Rs. 20000/each

Rs. 20000.00
ii) Cost of Piglets - 10 nos. @ Rs.

20000/- each
Rs.
20000.00
iii) Cost of feeds for 6 months (L/s)

Rs.
10000.00
B. Construction of Dug out Pond ( $25.00 \times 25.00$ ) m (as per estimate)

Rs.
60000.00

Supply of fingerlings -1500 nos. @
C. Rs.3000/- per 1000 nos. (L/s)

Rs.
4500.00
D. Kitchen Garden ;
i) Site preparation including Bunding, shaping etc.

Rs. 3500.00
ii) cost of F.Y.M. including cost of applicaton

Rs.
4000.00
iii) Cost of equipmqnts and tools
etc.
Rs. 1500.00
iv) Cost of seeds including sowing etc.

| Rs. | 3500.00 |  |
| ---: | ---: | ---: |
|  | Rs. | 4000.00 |
|  | Rs. | 1500.00 |
| G. Total | Rs. | 1500.00 |
| R. | $\mathbf{1 2 5 0 0 0 . 0 0}$ |  |

(Rupees one lakh twenty five thousand ) only.

Estimate for the construction of Ring Well.
(Based as per P.W.D. S.O.R. for roads, bridges and E\&D works 2009-2010)

Excavation for
1/134 structures.
(1) Ordinary

Soil.
A.(ii) 3 m . to 6 m .
depth.

|  | 1 | x | $\pi / 4$ | X | (1.20) | x | 5.25 | $=$ | 5.93 | $\mathrm{m}^{3}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | X | $\pi / 4$ | X | (4.20) | x | 0.30 | = | 4.15 | $\mathrm{m}^{3}$ |
| Less: | 1 | X | $\pi / 4$ | X | (1.20) | X | 0.30 | $=$ | (-)0.34 | $\mathrm{m}^{3}$ |
|  |  |  |  |  |  |  |  | = | 9.74 | $\mathrm{m}^{3}$ |

(i) Upto 3m.depth.
@ Rs. 61 /- m³
Rs. 594.14
$1 \times 8.00 \times 0.50 \times 0.45=1.80 \mathrm{~m}^{3}$
@ Rs. 47 /- $m^{3}$
Rs. $\quad 84.60$
2/69 Providing and paying reinforced c.c.pipe for ring well including fixing collar with cement mortar 1:2 etc.
(A) 1200 mm
dia.
Length $=6.25$ metres.

$$
\text { @ Rs. } 5621 \text { /- m }
$$

Rs. 35131.25

3/103 Providing and laying of dry rubble flooring complete.

$$
\begin{array}{rl}
1 \times & \pi \\
1 & x \\
1.00 \times 0.20 \times 1.50 \times 0.25 & =4.95 \mathrm{~m}^{3} \\
& =0.20 \times 0.10 \\
0.16 \mathrm{~m}^{3} \\
5.11 \mathrm{~m}^{3}
\end{array}
$$

@ Rs. 1065 /- m³
Rs. 5442.15

4/141 Plain/Reinforced c.c. in open foundation complete.
(A) PCC G - M
$-15$

| 1 | $\times$ | $\pi$ | $\times$ | 4.20 | $\times 1.50 \times 0.15$ | $=2.97 \mathrm{~m}^{3}$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 1 | $\times$ | $\pi$ | $\times$ | 4.20 | $\times 0.15 \times 0.15$ | $=0.30 \mathrm{~m}^{3}$ |
| 2 | $\times$ | 8.00 | $\times$ | 0.15 | $\times 0.45$ | $=1.08 \mathrm{~m}^{3}$ |
| 1 | $\times$ | 8.00 | $\times$ | 0.20 | $\times 0.15$ | $=0.24 \mathrm{~m}^{3}$ |
| $4.59 \mathrm{~m}^{3}$ |  |  |  |  |  |  |


| @ Rs. 4090 | $/-\mathrm{m}^{3}$ | Rs. | 18773.10 |
| :--- | :--- | :--- | :--- | :--- |
| GRAND TOTAL : | Rs. | 60025.24 |  |
| Say Rs. $60,000 /-$ |  |  |  |

( Rupees Sixty Thousand ) only.

( Based as per P.W.D., Schedule of rates for roads, bridges and E \& D works for the year 2009-2010).

1/134
(I)Ordinary soil.
A. Manual means.
(i)Upto 3.00 m depth.

M/dam : $1 \times 10.00 \times 1.20 \times 1.25=$
G/wall :

W/wall :
T/wall :

Apron :

2/137.

3/141(a).

Excavation for structures.
$15.00 \mathrm{~m}^{3}$
$2 \times 4.60 \times 0.50 \times 0.80=$
$3.68 \mathrm{~m}^{3}$
$2 \times 4.00 \times 0.50 \times 0.80=$
$3.20 \mathrm{~m}^{3}$
$1 \times 6.60 \times 0.60 \times 1.00=$
$3.96 \mathrm{~m}^{3}$
$1 \times 4.60 \times 6.00 \times 0.45=$
$12.42 \mathrm{~m}^{3}$
=
$38.26 \mathrm{~m}^{3}$
@ Rs. 47/-m ${ }^{3}$
Rs. 1798.22

Providing c.c. work in 1:3:6 foundation etc.
M/dam : $\quad 1 \times 10.00 \times 1.20 \times 0.23$
$=2.76 \mathrm{~m}^{3}$
@ Rs. 3571/- $\mathrm{m}^{3}$
Rs. 9855.96
Plain/ reinforcement c.c. in open foundation etc.

$$
\begin{array}{lll} 
& \mathrm{M} / \mathrm{dam}^{2}: & 1 \times 10.00 \times 0.90 \times 1.00 \\
= & 9.00 \mathrm{~m}^{3} & 1 \times 10.00 \times \underline{0.45+0.90} \times 1.80 \\
= & 12.15 \mathrm{~m}^{3} & \\
= & 1.35 \mathrm{~m}^{3} & 2 \times 2.00 \times 0.45 \times 0.75 \\
& & \\
= & \text { G/wall : } & 2 \times 4.60 \times 0.30 \times 0.80 \\
= & 8.33 \mathrm{~m}^{3} & 2 \times 5.45 \times 0.30 \times 2.55
\end{array}
$$

Less :
$2 \times 1 / 2 \times 3.20 \times 0.30 \times 1.35$
$=(-) 1.30 m^{3}$

W/wall : $\quad 2 \times 4.00 \times 0.30 \times 3.35$
$=8.04 \mathrm{~m}^{3}$

T/wall : $\quad 1 \times 6.60 \times 0.40 \times 1.00$
$=2.64 \mathrm{~m}^{3}$

Apron: $\quad 1 \times 6.15 \times 6.00 \times 0.15$
$=5.54 \mathrm{~m}^{3}$
$=47.96 \mathrm{~m}^{3}$
@ Rs. 4090/- m ${ }^{3}$
Rs. 196156.40

4/140(b).
complete.

Stone masonry work in cement mortar 1:3 etc.

Apron: $\quad 1 \times 4.60 \times 6.00 \times 0.30$
$=8.28 \mathrm{~m}^{3}$
$1 \times 1 / 2 \times 1.80 \times 6.00 \times 1.80$
$=9.72 \mathrm{~m}^{3}$
Less: $\quad 1 \times 1 / 2 \times 0.45 \times 6.00 \times 1.80$
$=(-) 2.43 \mathrm{~m}^{3}$
------------------------
$=15.57 \mathrm{~m}^{3}$
@ Rs. 2714/- $\mathrm{m}^{3}$
Rs. 42256.98

GRAND TOTAL = Rs. 250067.56

Say, Rs. 2,50,000.00
( Rupees Two lakh fifty thousand ) only.
C. C. CHECK DAM

Not to Scale



ESTIMATE FOR THE CONSTRUCTION OF C.C. CORE WALL WITH EARTH FILLED DAM ( EARTHEN EMBANKMENT ) FOR WATER HARVESTING STRUCTURES.
(Rates as per P.W.D S.O.R for Roads, Bridges and E \& D Works 2009-2010).

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

Core wall : $1 \times 18.00 \times 1.20 \times 1.25$
$=27.00 \mathrm{~m}^{3}$
L/Channel : $1 \times 8.00 \times 1.40 \times 1.10$

$$
\begin{aligned}
& =12.32 \mathrm{~m}^{3} \\
& ---------39 . \\
& =39.3 \mathrm{~m}^{3}
\end{aligned}
$$

@ Rs. 47/- m ${ }^{3}$
P.C.C 1:3:6 in foundation.....etc.

Core wall : $\quad 1 \times 18.00 \times 1.20 \times 0.11$

$$
=2.38 \mathrm{~m}^{3}
$$

$\qquad$

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

Core wall : $1 \times 18.00 \times \frac{0.40+1.00}{2} \times 3.50$

$$
=44.10 \mathrm{~m}^{3}
$$

$$
\begin{aligned}
& =3.68 \mathrm{~m}^{3} \\
& =0.80 \mathrm{~m}^{3} \\
& =----------. \mathrm{m}^{3} \\
& =48.58
\end{aligned}
$$

@ Rs. 4090/- m ${ }^{3}$ $\qquad$

4/28. Construction of embankment.
Dam : $\quad 1 \times 18.00 \times \frac{2.50+8.50}{2} \times 3.00$

Less : $\quad 1 \times 18.00 \times \frac{0.40+0.80}{2} \times 2.50$

$$
\begin{aligned}
& \quad=(-) 27.00 \mathrm{~m}^{3} \\
& =--------------\mathrm{m}^{3} \\
& =270.00 \mathrm{~m}^{3}
\end{aligned}
$$

5/100(I). Providing and laying stone/ boulders pitching on slope ...etc.
(I) Stone /boulders.

Dam U/S :
$1 \times 18.00 \times 4.24 \times 0.20$

$$
\begin{aligned}
& =15.26 \mathrm{~m}^{3} \\
& =1.60 \mathrm{~m}^{3} \\
& ------------16.86 \mathrm{~m}^{3}
\end{aligned}
$$

@ Rs. 1086/- m ${ }^{3}$
6/37. Turfing with sods.

| Dam D/S | $1 \times 18.00 \times 4.24$ | $=76.32 \mathrm{~m}^{2}$ |  |
| :---: | :---: | :---: | :---: |
|  | @ Rs. 46/- m ${ }^{2}$ | ......... | Rs. 3510.72 |
|  |  | GRAND TOTAL $=$ | Rs. 250029.90 |
|  |  | Say, Rs. 2,50,000.00 |  |
|  |  | pees Two lakh fift | housand ) only. |

E.L Core Wall With Earthern Filed Dam
Embankmerits for Uater Harvesting Strulture


## ESTIMATE FOR THE CONSTRUCTION OF DUG OUT POND.

( Rates as per P.W.D S.O.R for Roads, Bridges and E \& D Works 2009-2010 ).
1/30(i). Excavation in cutting in soil by manual means.
Dug out Pond :

```
Vol : \(\frac{\mathrm{D}}{6}(26.00 \times 24.00)+4(24.00 \times 22.00)+(22.00 \times 20.00)\)
    \(=\frac{2.00}{6}(624.00)+(2112.00)+(440.00)\)
    \(=\underset{6}{2.00}(3176.00)\)
    \(=1058.67 \mathrm{~m}^{3}\)
```

    @ Rs. \(47 /-\mathrm{m}^{3}\)......... Rs. 49757.49
    2/44(i). $\quad$ Surface drains in soil.
(A) Manual Means.

Length : 10.00 metres.
@ Rs. 25/- m ${ }^{3}$
......... Rs. 250.00

GRAND TOTAL $=\quad$ Rs. 50007.49
Say, Rs. 50,000.00

## DUG OUT POND

Not to Sicale


C/S AT S-S'
( Rates as per P.W.D S.O.R for Roads, Bridges and E \& D Works 2009-2010 ).
1/134. Excavation for structures.
(I) Ordinary soil.
(A) Manual Means.
(i) Upto 3 m depth.
$1 \times 10.00 \times 1.35 \times 1 / 2(1.10+0.60)=11.48 \mathrm{~m}^{3}$
$1 \times 10.00 \times 1 / 2 \times 1.35 \times 0.38$

$$
\begin{aligned}
& =2.57 \mathrm{~m}^{3} \\
& --------14.05 \mathrm{~m}^{3} \\
& =
\end{aligned}
$$

Rs. 660.35
2/137.
P.C.C 1:3:6 in foundation.....etc.
$1 \times 10.00 \times 1.35 \times 0.10$
$=1.35 \mathrm{~m}^{3}$
@ Rs. 3571/- m ${ }^{3}$
..........
Rs. 4820.85

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


STINE MASINRY PROTECTIUN WALL Not to Scale
|0.60|


## ANNEXTURE IV <br> MoA, SUB-COMMITTEE DETAILS ETC

Details of Convergence of IWMP with other Schemes:

| Name of Villages: a) Dabang-Gajinpara |  |  |  | b) Dabang-Ampangdamgre |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | 2 | 3 | 4 | 5 |  |  | 6 | 7 |
| SI. No. | District | Names of projects | Names ofDepartmentswith Schemesconverging withIWMP | Fund made <br> available <br> to IWMP due <br> to <br> convergence | undertaken with converged funds |  |  | Reference no. of a activity/ task/ structure in DPR ${ }^{\text {@ }}$ | Level at which decision for convergence was taken ${ }^{\text {s }}$ |
|  |  |  |  |  | (a) Structures  <br> (b)Livelihoods (C)Any other (pl <br> specify)  | Nos/Rmt/Ha | Amount(Rs) |  |  |
| 1 | WGH | WGH-IWMP-IX | NREGS (DRDA, <br> West Garo Hils, Meghalaya) | 3688000 | a)Dugout pond | 16 Nos | 800000 | Enclosure of Abstract of Perspective Plan for Convergence of NREGs with IWMP in DPR | District Level |
|  |  |  |  |  | b)Stone masonry protection wall | 14 Nos | 700000 |  |  |
|  |  |  |  |  | c) Water harvesting farm pond | 2 Nos | 750000 |  |  |
|  |  |  |  |  | d) C.C Check cum Irrigation dam | 1 Nos | 750000 |  |  |
|  |  |  |  |  | e) Earthen irrigation channel | 2292 Rmt | 89000 |  |  |
|  |  |  |  |  | f) Wet terrace | 17 Ha | 75000 |  |  |
|  |  |  |  |  | g)Rubber Plantation | 40 Ha | 292000 |  |  |
|  |  |  |  |  | h) Arecanut Plantation | 20 Ha | 232000 |  |  |
|  |  |  |  | Grand Total |  |  | 3688000 |  |  |
| Grand Total: Thirty six lakhs and eighty eight thous and only. |  |  |  |  |  |  |  |  |  |
| Enclosed: Abstract of Perspective Plan for Convergence of NREGS with IWMP. |  |  |  |  |  |  |  |  |  |

## TO WHOM IT MAY CONCERN

This is to certify that cencrally sponsored schemes like NREGS, BRGF, RKYY, NRHS and Total Sanitation Campaign etc can be convered with Watetshed Peojects/Progtammee wichin West Grate Hills District.

Dated: Tura
The $14^{\text {ii }}$ A ${ }^{2}$ util, 2011.


Samiay Goral;
Deputy Cuturnissionet, West Gam I fills Dist, Tura.
 UNCER UPPER DQEANO MLRO WATEESHED, WIH-WMAPLK




| PLE | N-Tidy | N: |  |  |  |  |  |  |  |  |  |  |  |  | $\infty$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | S'112 |  |  | 217213 |  |  | 215 l |  |  | A 4.15 |  |  |  |  |  |  |
|  |  |  | 717 | Ft: |  | -4ir | Filk |  | Fir | rs |  | $\pi{ }^{4}$ | M |  | $\mathrm{i}^{\mathrm{N}}$ | 1t. |  |  |
|  |  |  |  | Hex: | mele ed |  | W\%\%* | bsalis 9 |  | weys | Falsal |  | \%am | "amm |  | mact: | Thers |  |
| 1 |  | kss | \% | 15 ma |  |  | - |  | 2 | , $\mathrm{c}, \mathrm{m}$ |  | 5 | 2600 |  | 2 | 63008 | - | 4)74 |
| 2 |  | Hes | $\because$ | 8 ym | ש¢c | 1 | W, 00: |  | 3 | Po3 | Eugu | $\ddagger$ | 1,210. | $x, x$ | ' 1 | 3, | 2,8, | 20: |
| a |  | $4 x$ | - | - | - | 1 | 1.6100 | 1, $6, \mathrm{x} 0$ | . | 19900 | 15 m |  |  |  | ? |  | 2facis | 2 Cl 1 |
| 4 |  | \% 5 | 1 | 20:3 | 1, mas | 1 | 1,b) | 10:c\% |  | - |  |  |  |  | ? | $\mathrm{Sa}_{5} \mathrm{Ca}$ | 9max | 2 d |
| 5 |  | Rr! | $3:$ | 1;, $\times$ | - | 272 | 12ex | - | 272 | 260 | - | c2 | its | - | 3,4 | :9,3) | - | 415 |
| \$ |  | Hia | 263 | S,50x | - | - | - | - | $=$ | - | - | - | - | - | 2 za | 9750 i |  | $3 \times$ |
| ; |  <br>  | k | - | - | - | 5 | 77.38 | - | 5 | $3 \mathrm{c} \times$ | - | - | - | - | 2 | \%W | - | 3 m |
|  |  | it | . | - |  | -5 | $\operatorname{soc}$ | - | $x$ : | $4 ; 0$ | - | 3 | 4002 | - | 2 | 10,00 |  | $3{ }^{3} 4$ |
| * |  <br>  | Fin |  |  | . | $\because$ | 24ca |  | $\leq$ | 12,000 |  |  |  |  | ' | $x \mathrm{x}$ | - | ช. 9 |
|  |  | Fs | - | - | - | 16 | こab | - | 15 | 3063 | - | 14 | 51\% | - | 16 | a, 0 |  | 683 |
|  | CRAND FOTAL |  |  | 4,44,600 | 1,60,000 |  | 4,44,600 |  |  | 4,44,600 |  |  | 4,44.660 | 1.00,000 |  | 17.78.40] | \$,20000 | 14.205 |


 uTIDER UPFE D.

| 3 H | $\mathrm{ac}^{-} \mathrm{StIT}$ | Usit | Provect pa $=1$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  | traperaly: |
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|  |  |  | 291.17 |  |  | 2:12-3 |  |  | 21913.14 |  |  | x.14\% |  |  |  |  |  |  |
|  |  |  | 1914 | -1 |  | = Hr | 94 |  | - I\% | +t. |  | rHi | 9.1 |  | $\Gamma \times$ |  |  |  |
| 1 |  |  |  | \%hese | max. 6 ! |  | \% H (\% | Bikar |  | \% | "Fanes 4 |  | 7rasas | thistial |  | \%rex | 18\%1*: 9 |  |
| \% |  | fiss | 3 | 156, 6 | , |  | - | - | - |  | - | 5 | 1,50.00 |  |  | $\sec 4 x$ |  | 2664 |
| 3 |  | ke | $\checkmark$ | 6iter | 400 | - | - | - |  | - |  | , | 30, 2. | 2,00: | $?$ | C,OM: | E.500 | 79 |
| : | C6 cese a-i | 10.c: | - | - |  | . | 1sare | 10.50 | - | - | - | - | - | . | 1 | Sent |  | 182 |
| ¢ |  | +189 | - |  | - |  | - |  | 1 | ',scm | 1000 | $\cdots$ | - | $\cdots$ |  | iscras | 10.00: |  |
| 3 |  | ${ }_{\text {fim }}^{\text {If }}$ | 13.48 | 3 | - | '2! | 319: | - | $\stackrel{\sim}{3}$ | 16.50 | - | 4 | 7.3 S |  | 8 | 15.16\% | - | 紬 |
|  | तlicicalisinn |  |  | 3. | - | . | $=$ |  |  | - | $=$ | - | $=$ | . | 20 | 155: | - | 21 |
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|  |  | 4 t |  | - | - | 5 | Ca 0 | - | 71 | W, 40 |  | $\infty$ | 40,50 | - | $x$. | , 16,0x |  | (1) |
| ! |  |  | - | - | - | 14 | <2, 0 | - | f | 12,00 | - | - |  | - | 5 | S |  |  |
|  |  | 4, |  | - |  | ! 1 | $x \times$ | - | $\cdot 5$ | $310 x$ |  | $\cdots$ |  |  |  |  | - | 320 |
|  | - |  |  | - \% $0^{3}$ | 20. |  | 20.43: |  |  |  |  | , | $x, 0$ | - | 1: | (300] |  | 3 3 9 |
|  |  |  |  |  |  |  |  |  |  | 2.5.4. | 1ax) |  | 納, 4 |  |  | 328, ${ }^{3}$ | 2,x, | Sex |



## AGREEMENT FOR CONVERGENCE OF SCHEME

The Vllage Employment Councils (VEC) and the Communities of Dahang Cajingpara Villages, "Tikriklla Bincks, West Garo Lills, Meplataya häve ne objection to the Convergence nf NRFLS with lintegrater Management Projech (IWiMP) at Ilper Dabang village under Upper Dahang Mic:n-Whatershed, WGII-TWMP-IX being implemented by Tura Soil \& Water comservation (T) Dixision.

We alst agreat to altomed and commit Fursk fur wage as well as materfal component under NRECS in our Annual Work Plan for various Soil \&Whater Conservation whorks which shall be caken up clurtug the Project Pariod (2t110-11 to 2013-14). The wage and mateial component under: NREGS shall be utilised for following warks;

1. Degrat poad
2. Wet Terrace
3.6.6. Irrigation Dam
3. Areca mut IVantation
5.Stone Masonvy Proteat:on W:all
4. Earthen Irregation Channel
7.Water Harvesting Famm l'ond
5. Ruhher Plautation


Otbong-Gajingpara V,E,C
iest GoFio tiolt, Meph:
President,
Village Employment Council Ilpper Dabang
Tikrikilla Block, WGII


## AGREEMENT FOR CONVERGENCE OF SCHEME

The Village Employment Limncils (VEC) and the Communities uf Ampangda:agre Villiges, Tlkkrikilla Blocks, West Ciaro Hills, Meghalaya have no ohjection to the Cnnvergence of NRECS with Integrated Manogettunt Project (IWMP) nt Ampangdamgre villare under Upper Dabaing Micro-Watesshod, WIH-[WMP-TX heing [mplemented by Tura Soil \& Water Conservation ('T) Division

We also agreedf to allocated and commft Funds for wage as well as taterial compoment under NREGS in our Annual Work Plan for various Siril \& Whater Conservation works waich shall be taken upl daring the Projent Perion (2010-11 ts 2013-14). The wage and material component under NRECS shall he utilised for following warks:

1. Dugour Pond
2. Wel Tarrace
3.C.C. Itsigation Dam
3. Arara mut Flaulation
3.Stime Masomry Protection Wall
4. Earthen Arrigation Channel
7.Water IIarvesting Pam Pond
5. Rubber Plastation


Garo Mtie. 'Howh.'
Presideml.
Village Employment Comicil
Atrpangedamgre
Tikkrikilla Block, WGIt


Village Employtrent Councl
Ampangramgre
Tikko'k[lla Block, wGI]

# NO OBJECTION CERTIFICATE OF THE <br> A. KING NOKMA FOR UPPER DABANG MICRO WATERSHED DEVELOPMENT PROJECT TO BE TAKEN UP UNDER IWMP-IX PROJECT BY TURA SOIL \& WATER CONSERVATION(T)DIVISION 

The A-king Nokia of Diaharg Gajinghara village under Upper Dabang Microwatershed project, WGH-TWMP-IX has No Objection to the developmental activities tor be undirliaken in my A- king land by Sell \& Water Conservation Department.

The villagers of Thabang Gajingpara Asking Land are ready lat accept the Devehponent Scheme after clear understanding of the objectives and the activities proposed under the project to he implemented in our Watershed ares.

There will be No Objection in future from the villagers of the watershed area as they have understory the objectives of the proposed abome of the Soil \& water Conservation Department.

Name \& Signature of A-king Nokia


Vil. Eabeng-Gaingporth;
Wow Gary Hills $t$ Atagh )

Countersigned by

# NO OBJECTION CERTIFICATE OF THE A-KING NOMA FOR UPPER DABANG MICROWATERSHED DEVELOPMENT PROJECT TO BE TAKEN UP UNDER IWMP-VIII PROJECT BY TURA SOIL. \& WATER CONSERVATION [T] DIVISION 

The Aging Nokia of Ampangdamgre village under Upper Dating Microwatershed project, WGIl-lWMP-IX has No Chjestion to the developmental activities: to he undertaken in my A- king land by Soil \& Water Conservation Department.

The villagers of Ampangdamgre Asking Land are ready to accept the Development. Scheme after cleat understanding of the objectives and the arijvities proposed under the project to be implemented in our Watershed area.

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

Name \& Signature of $A$-king Nokia


FW. Dshang-Gstingorra,


Corunterslgreed by



[^0]:    * 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,

[^1]:    * 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

