

DETAILED PROJECT REPORT

**RENGGIN-RONGA AND RONGTHIT MICRO WATERSHED,
INTEGRATED WATERSHED MANAGEMENT PROGRAMME**

EGH - IWMP –V

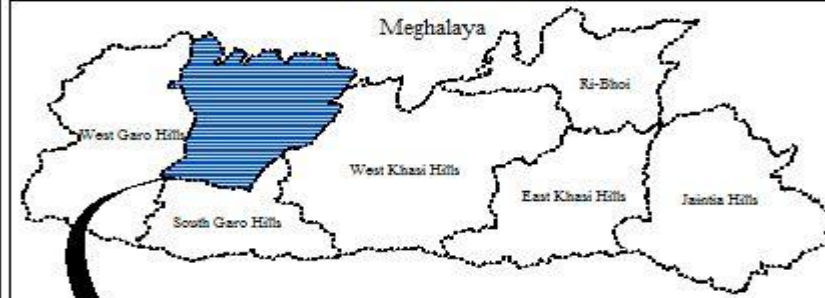
2010 – 2011

RONGJENG C.& R.D. BLOCK

EAST GARO HILLS DISTRICT

MEGHALAYA

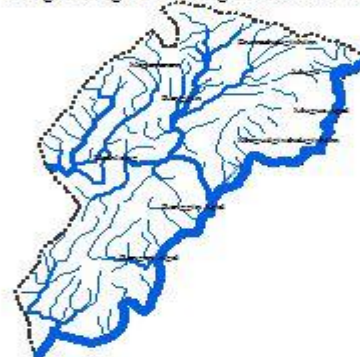
Location Map



East Garo Hills



Rengin-ronga and Rongthit Micro Watershed



SUMMARY

Name of the State	:	Meghalaya
Name of the District	:	East Garo Hills District
Name of the C&RD Block	:	Rongjeng C&RD Block
Name of the Villages	:	1. Mogogittim, 2. Chitil Apal, 3. Renggin Apal, 4. Rangme Agal, 5. Haslong Renggin, 6. Domatchok Songgital 7. Domatchok Songgitcham, 8. Nagimaram, 9. Haslong Mechimram.
Name of the Project	:	East Garo Hills – IWMP – V
Total Geographical Area	:	2135Ha.
Total Treatment Area	:	2000 Ha.
Total Project Cost	:	300.0 lakhs.
Project Duration	:	5 Years.
Project Implementing Agency	:	Simsangre Soil & Water Conservation Division, Williamnagar.

CHAPTER I

INTRODUCTION AND BACKGROUND

1.1 Project Background:

The Renggin Ronga and Rongtit Watershed (IWMP- V) project is located in Rongjeng C&RD Block, East Garo Hills District of Meghalaya. Consisting of a two micro-watershed, the project area is drained by the Renggin Ronga and Rongtit Stream and its tributaries flowing from North to South. The total area is 2135 Ha. with 2000 to be treated under the Integrated Watershed Management Programme (IWMP).

The Project area is located at a distance of about 26 km from Rongjeng Block Head Quarter and about 78 km from Williamnagar the District Headquarter. A total of 9 (nine) villages are covered under the project. These are –

- | | | | | |
|------------------------|--------------------------|-----------------|-----------------------|--------------------|
| 1. Mogogittim | 2. Chitul Apal | 3. Renggin Apal | 4. Rangme Agal | 5. Haslong Renggin |
| 6. Domatchok Songgital | 7. Domatchok Songgitcham | 8. Nagimaram | 9. Haslong Mechimram. | |

1.2 Micro-watershed Information:

The micro-watershed code is Renggin Ronga 3C1A5b2g, Rongtit 3C1A5b2f as codified by the North East Space Application Centre (NESAC). The total area of the micro-watershed is 2135Ha, with 2000 hectares to be treated under the Integrated Watershed Management Programme (IWMP).

1.3 Need and Scope for Watershed Development:

The micro-watershed Renggin Ronga and Rongthit Watershed falls under the High Priority category as per the prioritization of watersheds by the North East Space Application Centre (NESAC). Located on the slope of East Garo Hills Pleatue the 7 villages do not have any road connectivity. The farmers are marginal and small farmers and 79 households are below the poverty line, which is 25.64% of the total households. Jhum cultivation is practiced by most of the inhabitants of these villages on the slopes. The area receives ample rainfall during the monsoons.

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

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

- i. MGNREGS - Convergence sheet enclosed.

CHAPTER II

BASIC INFORMATION OF THE PROJECT AREA

2.1 Location:

The Project area is located within the area of Akhing lang under Rongjeng C&RD Block of East Garo Hills District. It is situated at a distance of about 27 km from Rongjeng Block Head Quarter and about 78 km from Williamnagar the District Headquarter. The geographical location is between 25⁰36'5'' to 25⁰39'45''N Latitude and 90⁰51'20'' – 90⁰-30'55 E Longitude. There are 9 (nine) villages within the Watershed which are as follows –

- | | | | | |
|------------------------|--------------------------|-----------------|-----------------------|--------------------|
| 1. Mogogittim | 2. Chitil Apal | 3. Renggin Apal | 4. Rangme Agal | 5. Haslong Renggin |
| 6. Domatchok Songgital | 7. Domatchok Songgitcham | 8. Nagimaram | 9. Haslong Mechimram. | |

At present, these 2 (two) villages are connected to motorable kutcha road.

2.2 Physiography:

The physiography of the micro-watershed is highly undulating. The altitude ranges from a minimum of 499m to a high of 740m above mean sea level. In the lower reaches (valley lands) the slope ranges from 7 to 14%

Table 2.1: Physiographic details

Elevation (metres)	Slope Range (%)	Order of watershed Sub/Micro-watershed	Major streams	Topography
499m – 740m	7 - 56%	Micro Watershed	Renggin Ronga and Rongtit	Strongly to moderate sloping

2.3 Drainage: The major stream draining the micro-watershed is the Renggin Ronga and Rongtit which is a are flowing in a Eastern direction. The slopes of the micro-watershed are dissected by numerous small tributaries flowing to the Renggin Ronga and Rongtit stream.

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

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

1	2	3	4	5	6	7	8	9		
Sl. No.	Names of State	Names of District	Names of Projects	Cause	Types of erosion	Area affected (ha)	Run-off (mm/year)	Average soil loss (Tonnes/ ha/ year)		
1	Meghalaya	East Garo Hills	East Garo Hills – IWMP –V	Water erosion:						
				a	Sheet	}	2000	NA	NA	
				b	Rill					
				c	Gully					
				Sub total		2000				
				Wind erosion		NA	NA	NA		

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 3355 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	
Sl. No.	Name of State	Name of the Agro-climatic zone	Area (in ha)	Names of the districts	Names of the Projects	Major soil types		Average annual rainfall in mm (preceding 5 years' average)	Major crops	
						a) Type	b) Area (ha)		a) Name	b) Area (ha)
1	Meghalaya	Central Hypothermic Plateau	2135 Ha	East Garo Hills	East Garo Hills – IWMP – V	Loam, Clay Loam	2135 Ha	3355mm	Paddy	445
									Ginger	75
									Oranges	-
									Bay leaf	-
									Broom stick	-
									Black pepper	-
									Litchi	-
									Banana	-
									Pineapple	-
								Total		520

2.6 Agriculture: Agriculture is the primary occupation of the people of the area. The people mostly practice jhum. The jhum plots vary from 0.5 to 1.0 Ha, and are cultivated for 2 years. The principal agricultural crops grown of the jhum fields are potato, sweet potato, rice, millet, maize, yam, ginger and vegetables. Fruit crops are well suited in the lower reaches which include orange, pineapple, jackfruit. The slopes of the Renggin Ronga and Rongtit are also very suitable for betel nut, betel leaf, broomstick, which contribute to the income of the people.

Table 2.4: Crop yield and production

Crops	Area (ha)	Average Yield (Qtl) per ha.	Total Production (Qtl.)
Paddy	445	19.36	8615.2
Millet	-	-	-
Soyabean	-	-	-
Yam	-	-	-
Ginger	75	56	4200
Tapioca	-	-	-
Betel nut	-	-	-
Betel leaf	-	-	-
Black Pepper	-	-	-
Oranges	-	-	-
Bay Leaf	-	-	-

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

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

Demographic Status: The total households in the watershed project is 308 with a total population of 1652, of which 774 are male and 878 are female. The detail of the household in each of the villages in the watershed project is as follows:

1. Mogogittim	-	-	-	41
2. Chitil Apal	-	-	-	71
3. Renggin Apal	-	-	-	10
4. Rangme Agal	-	-	-	23
5. Haslong Renggin	-	-	-	14
6. Domatchok Songgital	-	-	-	29
7. Domatchok Songgitcham	-	-	-	16
8. Nagimaram	-	-	-	40
9. Haslong Mechimram.	-	-	-	64
	Total : -			308

Infrastructure facilities

- 2.1.1 *Roads:* All the villages within the Project Area are not connected by road. The Project area depends entirely on the kutcha road connected either to Mangsang.
- 2.1.2 *School:* there are only 9 L.P Schools within the Project Area run either by the Mission or by the Government.
- 2.1.3 *Electricity :* There is no electricity connection to any of the village.
- 2.1.4 *Health :* There is no CHC & PHC in the project area. The nerest CHC available is Rongjeng.
- 2.1.5 *Water Supply :* Drinking water supply have been provided by the PHE Department work of the villages. However, during lean season the entire population have to depend on springs available inb the area as the supply is not sufficient to meet the daily requirement.
- 2.1.6 *Market :* There is a weekly market held once in a week at Mangsang. However, the main market where the people sell their produce are both Mangsang & Rongjeng Market.

Table 2.5: Infrastructure Status.

1	2	3		4			
Name of District	Name of Project	Parameters:		Status			
East Garo Hills	East Garo Hills – IWMP-V	(i)	No. of villages connected to the main road by an all-weather road.	All villages are at 1 hr to 3 hrs walking from the motorable junction Nil but portable drinking water not available.			
		(ii)	No. of village provided with electricity	-			
		(iii)	No. of households without access to drinking water	Nil but Portable drinking water is not available.			
		(iv)	No. of educational institutions: Primary (P)/ Secondary (S)/ Higher Secondary (HS)/ Vocational institution (VI)	(P)	(S)	(HS)	(VI)
				9 Nos.	-	-	-
		(v)	No. of village with access to Primary Health Centre	Nil			
		(vi)	No. of village with access Veterinary Dispensary	Nil			
		(vii)	No. of village with access Post Office	Nil			
		(viii)	No. of village with access Banks	Nil			
		(ix)	No. of village with access Markets/ mandis	Nil			
		(x)	No. of village with access Agro-Industries	Nil			
		(xi)	Total quantity of surplus milk	Nil			
		(xii)	No. of milk collection centres (e.g. Union (U)/ Society (S)/ Private agency (PA)/ Others (O))	(U)	(S)	(PA)	(O)
				Nil	Nil	Nil	Nil
(xiii)	No. of villages with access to Aganwadi Centres	5 Nos.					
(xiv)	Any other facilities with no. of villages (please specify)	Nil					

2.9 Livestock: there are only 4 kinds of livestock farming being farmed in the area viz. Piggery, Poultry Cattle rearing Goattery or Apiculture.

Table 2.6: Existing livestock population

Type of Animal	Population
Piggery	226
Poultry	1242
Cattle farm	544
Goatery	112
Total	2124

2.10 Land ownership: There are primarily 2(two) types of land holding system, namely private lands i.e. individually owned land and community lands (Clan Land.)

2.11 Table 2.7: Land Holding:

1	2	3	4	5	6		
Name of District	Name of the Project	Types of Farmer	No. of households	No. of BPL households	Land holding (ha)		
					Irrigated	Rainfed	Total
East Garo Hills	East Garo Hills – IWMP- V	(i) Large	-	-	-	-	-
		(ii) Small	51	-	-	76	76
		(iii) Marginal	126	-	-	369	369
		(iv) Landless	131	131	-	-	-
		Sub - Total	308	131	-	445	445

Table 2.5: Common Property Resources in the Project Area

1	2	3	4				5			
Name of District	Name of the Projects	CPR Particulars	Total Area (ha) Area owned/ In possession of				Area available for treatment (ha)			
			Pvt. Person	Govt. (specify deptt.)	PRI	Any other (Community)	Pvt. Person	Govt. (specify deptt.)	PRI	Any other (Community)
East Garo Hills	East Garo Hills – IWMP-V	(i) Wasteland/ degraded land				82				82
		(ii) Pastures								
		(iii) Private Agriculture land	445				430			
		(iv) Village woodlot								
		(v) Forest (village)				570				570
		(vi) Village Ponds/ Tanks				47				
		(vii) Community Buildings				3				
		(viii) Weekly Markets								
		(ix) Permanent Markets								
		(x) Temples/ Places of worship				2				
		(xi) Others (Pl. specify)				986				918
		Total					2135			

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

a) Built-up Area	=	39	Ha
b) Water bodies-River/Stream-Perennial	=	8	Ha
c) Agricultural land-crop land-kharif crop	=	158	Ha.
d) Tree clad Area-close	=	109	Ha.
e) Tree clad Area-open	=	1739	Ha.
f) Wastelands-barren Rocky/Stony waste.	=	<u>82</u>	<u>Ha.</u>
Total	=	2135	Ha

2.13 Problems of the Area : The primary problems of the area is jhumming. Majority of the population depends on Jhum Cultivation for their livelihood. Vast tracks of abandoned Jhum areas are converted to Broomstick cultivation areas which has further degraded the capability of the land. Mention may also be made here that the land use categorized as Tree-clad Area-open in the land used land cover map generated using Satellite Images of 2005 – 2006 are actually Broom-stick cultivation areas. In other words, unscientific method of cultivation has not only reduced the Jhum cycle, low crop yield but had adversely affected the ecological balance within the area. Road communication is another infrastructural 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

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

1	2	2
	Remote sensing data-especially soil/ crop/ run-off cover	Yes
	Ridge to Valley treatment	Yes
	Online IT connectivity between	
	(1) Project and DRDA cell/ZP	Yes
	(2) DRDA and SLNA	Yes
	(3) SLNA and DoLR	Yes
	Availability of GIS layers	
	1. Cadastral map	No
	2. Village boundaries	No
	3. Drainage	Yes
	4. Soil (Soil nutrient status)	Yes
	5. Land use	Yes
	6. Ground water status	No
	7. Watershed boundaries	Yes
	8. Activity	Yes
	Crop simulation models [#]	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	Yes
	4. Bio-fertilizer	Yes
	5. Water saving devices	Yes
	6. Mechanized tools/ implements	No
	7. Bio-fencing	Yes
	8. Nutrient budgeting	Yes
	9. Automatic water level recorders & sediment samplers	No
	Any other (please specify)	-

3.2 Project Implementing Agency:

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

1	2	3	
Names of Districts	Names of projects	Details of PIA	
East Garo Hills	East Garo Hills – IWMP- V	(i) Type of organization#	Government
		(ii) Name of organization	Simsanggre Soil & Water Conservation (T) Division, Williamnagar.
		(iii) Designation & Address	Divisional Soil & Water Conservation Officer, Simsanggre Division, Williamnagar.
		(iv) Telephone	03658-220228
		(v) Fax	Do
		(vi) E-mail	dswcosimsanggre@gmail.com

3.3 Institution Building

i) Watershed Committee (WC)

The Watershed Committee of Renggin Ronga and Rongtit Watershed the was constituted with the active involvement of the villagers with strong support of the Traditional Institutions (Village Nokma/Council). The Watershed Committee yet to be registered under the Society Registration Act 1860.

Table 3.2: Details of Watershed Committees (WC):

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18			
Names of the Districts	Names of projects	Names of WCs	Date of Registration as a Society (dd/mm/yyyy)	Designation	M/F	SC	ST	SF	MF	LF	Land-less	UG	SHG	GP	Any other	Educational qualification	Function/s assigned#			
East Garo Hills	East Garo Hills – IWMP- V	Renggin Ronga and Rongtit		President	2 M	-	ST													
				Secretary	1 M	-	ST													
				Member	29 M	-	ST													
				Member	9 F	-	ST													
				Member																

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

ii) Self Help Group

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

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

1	2	3				4				5			6		
Names of the Districts	Names of projects	Total no. of registered SHGs				No. of members				No. of SC/ST in each category			No. of BPL in each category		
		With only Men	With only Women	With both	Total	Categories	M	F	Total	M	F	Total	M	F	Total
East Garo Hills	East Garo Hills – IWMP-V	-	7	1	8	(i) Landless	-	52	52		52			35	35
						(ii) SF	1	19	20	1	19				
						(iii) MF	4	6	10	4	6				
						(iv) LF			82	5	77			35	35

iii) User Group

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

Table 3.4: User Group Details

1	2	3				4				5			6		
Names of Districts	Names of Projects	Total no. of Ugs				No. of members				No. of SC/ST in each category			No. of BPL in each category		
		Men	Women	Both	Total	Categories	M	F	Total	M	F	Total	M	F	Total
East Garo Hills	East Garo Hills IWMP-V	19	-	-	19	(i) Landless	-	-							
						(ii) SF	99		99						
						(iii) MF	36		36						
						(iv) LF									
Total		19	Nil	Nil	19		135			135					

CHAPTER IV PROJECT ACTIVITIES

4.1 Preparatory Phase:

i) Entry Point Activities (EPA)

(Financial – Rs. in lakh)

1	2	3	4	5	6	7	8	9	10	11
Sl. 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	East Garo Hills	East Garo Hills – IWMP -V	12.0 Lakhs	Construction of Culvert. Construction of Link Road. Repairing of Community Hall. Construction of Sanitary Latrine. Construction of Ringwell. Repairing of School Building. Improvement of Playground.	2.60 0.85 0.60 2.70 4.35 0.60 0.30	12.0 Lakhs.	-	Improvement of Basic Amenities	Improvement of Basic Amenities

ii) Other activities of Preparatory Phase:

1	2	3	4	5	6	7	8	9	10	11	12	13
District	Name of Projects	Initiation of village level institution	Capacity building	IEC activities	Baseline survey	Hydro - geological survey	Identifying technical support agencies	Resource agreements	Preparation of DPR	Evaluation of DPR	Any other (please specify)	Cost incurred (Rs. In lakh)
East Garo Hills	East Garo Hills – IWMP-V	1 No. W/C	6 nos.	3 nos.	Participatory Rural Appraisals	N.A	Done	Done	Done	Done	Institution & Capacity Building DPR	16.20

4.2 Watershed Works Phase:

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

1	2	3	4	5	6		7													
					Pre Project			Proposed Project												
					No	Area irrigated (ha)	Storage capacity	Augmentation/ repair of existing structures				Construction of new structures				Total target				
								No	Area to be treated (ha)	Storage capacity	Estimated cost (in lakhs)	No	Area to be treated (ha)	Storage capacity (per unit)	Estimated cost (in lakhs)	No	Area to be treated (ha)	Storage capacity (m ³)	Estimated cost	
1	Meghalaya	East Garo Hills	East Garo Hills – IWMP-V	(i) Tank, Water Harvesting Structure.	-	-	-					7	45		7.56	7	45		7.56	
				(ii) Pond	-	-	-					15	55		6.02	15	55		6.02	
				(iii) Lake	-	-	-													
				(iv) Check Dam	-	-	-					12	100		12.676	12	100		12.676	
				(v) Percolation Tank	-	-	-													
				(vi) Channel	-	-	-					2	12		1.664	2	12		1.664	
				(vii) Any others (please specify)																
				Total												36	212		27.92	36

8											9	10
Achievement due to project												
Augmentation/ repair of existing structures				Construction of new structures				Total achievement			Change in storage capacity (col 8-6)	Change in irrigated area (ha) Col. (8-6)
No	Area irrigated (ha)	Storage capacity	Expenditure incurred (in lakhs)	No	Area irrigated (ha)	Storage capacity	Expenditure incurred (in lakhs)	Area irrigated (ha)	Storage capacity	Estimated incurred		-

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

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

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	Estimate d Cost	Amount of WDF to be collected (Rs.)
		Structure/ activity proposed						
		Sl. No.	Type	No.#	Treatment (ha)			
East Garo Hills	East Garo Hills – IWMP –V	1	Check Dam	12	100	12	12.676	0.6338
		2	Water Harvesting Structure	7	45	7	7.56	0.378

4.2.4 Activities executed by User Groups in the Project Areas:

4									
Major activities of the UGs – Achievements									
Structure/ activity				No. of UGs involved	Expenditure incurred (Rs.)	No. of mandays			Amount of WDF collected (Rs.)
Sl. No.	Type	No.#	Treated Area (ha.)			SC	ST	F	
1	Check Dam	12	100	12	12.676	-	7605	1521	0.6338
2	Water Harvesting Structure	7	45	7	7.56	-	4536	907	0.378

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

1	2	3		
Names of the Districts	Names of projects	Major activities of the SHGs		
		Name of activity	No. of SHGs involved	Average annual income from activity per SHG
East Garo Hills	East Garo Hills – IWMP -V	1. Tailoring		
		2. Basket Making		
		3. Stabilized Mud Block		
		4. Piggery Farming		
		5. Vermi Composting		
		6. Fruit Processing		
		7. Canes & Handicraft		

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

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

4.2.7 Other activities of watershed works phase:

1	2	3		4		5		6		7		8		9		10		11		12		13
System/District	Names of projects	Ridge area treatment		Drainage line treatment		Nursery raising		Land development		Improvement of existing Paddy field.		Agro-horti. Plantation.		Preliminary & 1 st year planting area.		Improvement of degraded forest		Non-conventional energy		Any other (please specify)		Total cost incurred (Rs. In lakhs)
		(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)			
EGH	EGH-IWMP-V	-	-	341	38.646	R-97200 A-240000	24.3 14.4	64	12.8	430	18.49	135	2.70	240	18.144	570	20.52	-	-	Livelihood & Production System	15 19.5	109.5

R = Rubber
A = Arecanut

4.2.8 Details of engineering structures in watershed works:

1	2	3	4			5			6	7				8								
District	Project	Name of structures	Type of treatment			Type of land			Executing agency	Target				Achievement								
			(i) Ridge area (R)	(ii) Drainage line (D)	(iii) Land Dev. (L)	(i) Private	(ii) Community	(iii) Others (pl. specify)	(i) UG (ii) SHG (iii) Others (pl. specify)	No. of units (No./cum./rmt)	Estimated cost (Rs. in lakh)				Expected month & year of completion (mm/yyyy)	No. of units (No./cu.m./rmt)	Expenditure incurred (Rs. in lakh)				Status of completion	Actual month & year of completion (mm/yyyy)
											M	W	O	T			M	W	O	T		
East Garo Hills	East Garo Hills – IWMP - V	Staggered trenching																				
		Loose boulder Contour bund	R	-	-	Pri- vate	-	-	Benefi- ciary													
		Graded bunding																				
		Bench terracing			L	-Do-				64	9.60	2013-14										
		Check Dams		D		-Do-				12	12.676											
		Water Harvesting Structure		D		-Do-				7	7.56											
		C.C. Protection wall		D		-Do-				1	0.787											
		Gabion structures		D		-Do-				17	9.648											
		Dugout Pond		D		-Do-				15	6.02											
		C.C. channel		D		-Do-				2	1.664											
		Any others (pl. specify)																				

Contd.

4.2.9 Details of engineering structures in watershed works.

9																		
Outcomes																		
Reduction in run off (cu.m)	Area treated# (ha)	Water level (m)		Production (quintal)		Income (Rs.in lakh)		Mandays generated					No. of beneficiaries					
		Pre-project	Post project	Pre-project	Post project	Pre-project	Post project	SC	ST	Others (Men)	Women	Total	SC	ST	Others	Women	Total	
-	-	-	-	15 qtl.	30 qtl.	0.15	0.30	-	23087	-	4620	23087	-	308	-	-	-	308

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

1	2	3	4			5			6	7				8				
District	Project	Name of structure/ work	Type of treatment			Type of land			Executing agency	Target				Achievement				
			(i) Ridge area (R)	(ii) Drainage line (D)	(iii) Land dev. (L)	(i) Private	(ii) Community	(iii) Others (pl. specify)	(i) UG (ii)SHG (iii) Others (pl. specify)	Area (ha)	No. of plants	Estimated cost (Rs. in lakh)	Expected month & year of completion (mm/yyyy)	Area (ha)	No. of plants	Expenditure incurred (Rs. in lakh)	Actual month & year of completion (mm/yyyy)	
East Garo Hills	EGH-IWMP-V	Afforestation	R				✓						March, 2014				March, 2014	
		Regeneration												-	-	-	-	
		Agro-forestry													-	-	-	-
		Fuel wood																
		Fodder																
		Agro- Horticulture					✓				135		2.70	-do-				
		Pasture dev.																
		Nursery raising Rubber/Arecanut						✓			220	337200	38.70	-do-				
		Others (Rubber/Arecanut Planting)						✓			240		18.144	-do-				
		Imp. Of degraded Forest								570		20.52						

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

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

9														
Outcomes														
Reduction in run off (cu.m)	Production (quintal)		Income (Rs. lakhs)		Mandays generated					No. of beneficiaries				
	Pre-project	Post project	Pre-project	Post project	SC	ST	Others	Women	Total	SC	ST	Others	Women	Total
		Arecanut 960 qtl.		192		18144			18144		308			308
		Rubber 3240 qtl.		388.8		24300			24300					

4.2.12 Details of allied / other activities:

1	2	3	4			5	6		7	
District	Project	Name of activity@	Type of land			Executing agency (i) UG (ii)SHG (iii) Others (pl. specify)	Target		Achievement	
			(i) Private	(ii) Community	(iii) Others (landless)		Estimated cost (Rs. in lakh)	Expected month & year of completion (mm/yyyy)	Expenditure incurred (Rs. in lakh)	Actual month & year of completion (mm/yyyy)
East Garo Hills	East Garo Hills – IWMP-V	Tailoring – 10 units	70				5.60			
		Carpentry/ Agri-implements/ Basket making etc – 110 nos.			76		3.80			
		Apiculture	10				0.80			
		Backyard poultry								
		Stabilized Mud Block		18			5.40			
		Piggery Farming	100	26			11.40			
		Vermi-Composting		18	18		7.05			
		Kitchen gardening	314				7.85			
		Fruit processing								
		Pisciculture	17	13			5.60			
		Water Pump/Rice mill		27			13.50			
Ginger/Turmeric Plantation		20			3.00					

(Contd.)

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

CHAPTER - V

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

4.2.13 Details of allied / other activities:

8											
Outcomes											
Income (Rs.)		Mandays generated					No. of beneficiaries				
Pre-project	Post project	SC	S T	Others	Women	Total	SC	ST	Others	Women	Total
								308			308

4.3 Consolidation and withdrawal phase

Details of activities in the CPRs in the project areas:

1	2	3	4	5	6				7					
					Target				Achievement					
					Target area under the activity (ha)	Estimated expenditure (Rs.)	Expected no. of beneficiaries	Estimated contribution to WDF (Rs.)	Area treated under the activity (ha)	Expenditure incurred (Rs.)	Actual no. of beneficiaries	No. of mandays		
SC	ST	F												
East Garo Hills	EGH-IWMP-V	All Village	Drinking Water											

CHAPTER - V

PROJECT PHASING & BUDGETING

ACTION PLAN OF RENGGIN RONGGA WATERSHED UNDER IWMP - V, SIMSANGGRE SOIL & WATER CONSERVATION DIVISION, WILLIAMNAGAR.

Name of District : East Garo Hills

No. of Villages - 7 Nos.

Name of C & R.D. Block : RONGJENG

Project Area - 1500 Ha.

Sl. No	Activities	Ha./ Nos.	I st Year				Co-ordinates	II nd Year				Co-ordinates	III rd Year				Co-ordinates	IV th Year				V th Year				Total			
			C.S.		S.S.			C.S.		S.S.			C.S.		S.S.			C.S.		S.S.		C.S.		S.S.		C.S.		S.S.	
			Phy	Fin	Phy	Fin		Phy	Fin	Phy	Fin		Phy	Fin	Phy	Fin		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	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
I	MANAGEMENT COST:																												
A.	Administrative cost:																												
i.	Honourarium of WDT Members @ Rs. 8000/ month - 1 no. X 18 month.								0.96					0.96					0.96									2.88	
ii.	Hon ^{rm} of Watershed Volunteers @ Rs. 2500/- month - 3 nos.								0.9					0.9					0.9									2.7	
iii.	Hon ^{rm} WCO's @ Rs.1000/month x 18 months								0.18					0.18					0.18									0.54	
iv.	Hon ^{rm} WCM @ Rs.200 x 11 Nos. members/ month for 36 months													0.792														0.792	
v	Hon ^{rm} Office assistance @Rs.5000/month x 18 months.													0.9														0.9	
vi	Hon ^{rm} Chartered Accountant								0.2					0.3					0.3									0.8	
vii	TA/DA of Field Asstt. @ 5000/ month.								0.6					0.6					0.6									1.8	
viii	Hiring charges of office building @ 1500/-								0.18					0.18					0.18									0.54	
ix.	Hiring charges of vehicle @ 5000/month.								0.6					0.6					0.6									1.8	
x	Office expenses, POL, Stationeries, printing of SHG's books, pamphlets, tea, snacks etc, cost of camera.								0.88					5.838					3.03									9.748	
	Total of A:								4.5					11.25					6.75									22.5	

DOMATCHOK SONGGITAL Rubber Nursery @ Rs. 25 /- plant.	Nos.										10800 nos.	2.7												2.7			
	Ha.										24												24				
	Improvement of degraded forest. Preliminary & 1st year. @Rs.2600/-	Ha.					10	0.26				40	1.04										50	1.3			
	2nd year maintenance @Rs.1000/-	Ha.										(M)	0.1					(M)	0.4						0.5		
	Arecanut nursery @ Rs. 6/- plan	Nos.										30000 nos.	1.8												1.8		
		Ha.										0.5												0.5			
Arecanut 1st yr. Plantation @Rs. 7560/ ha	Ha.																30	2.268						30	2.268		
DOMATCHOK SONGGITCHAM Rubber Nursery @ Rs. 25 /- plant.	Nos.										5500 nos.	1.375												1.375			
	Ha.										12												12				
	Improvement of degraded forest. Preliminary & 1st year. @Rs.2600/-	Ha.					12.5	0.325				50	1.3										62.5	1.625			
	2nd year maintenance @Rs.1000/-	Ha.										(M)	0.125					(M)	0.5						0.625		
	Arecanut nursery @ Rs. 6/- plan	Nos.										15000 nos.	0.9												0.9		
		Ha.										0.25												0.25			
Arecanut 1st yr. Plantation @Rs. 7560/ ha	Ha.																15	1.134						15	1.134		
Total of B:						162	12.4025				541.5	38.179					90	9.804					793.5	60.3855			

**Convergence of EGH IWMP Project -V with NREGS
RENGGIN RONGA WATERSHED EGH-IWMP-V, RONGJENG C.& R.D.BLOCK
Rubber Plantation Norms for NREGS**

Location & Activities	2nd year of IWMP		1st Year of NREGS		3rd Year of IWMP		2nd Year of NREGS		4th Year of IWMP		3rd Year of NREGS		5th Year of IWMP		4th Year of NREGS		TOTAL (IWMP)		TOTAL (NREGS)	
	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	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	15	16	17	18	19	20	21
Chitil Apal																				
Creation of Rubber Nusery (Polybag) @Rs.25/- per plant.					27000 nos.	6.75											27000 nos.	6.75		
					60 ha.												60 ha.			
Preliminary 1st year plantation @Rs.15760/- per ha. (Material Component)							60 ha.	9.456											60 ha.	9.456
Preliminary & 1st Year Wage Component @Rs.51100/-								30.66												30.66
2nd Year Maintenance @Rs.1000/- per ha.											(M)	0.6							(M)	0.6
2nd Year Wage Component. @Rs.35910/-											(M)	21.546							(M)	21.546
Mogugittim																				
Creation of Rubber Nusery (Polybag) @Rs.25/- per plant.					16200 nos.	4.05											16200 nos.	4.05		
					36 ha.												36 ha.			
Preliminary 1st year plantation @Rs.15760/- per ha. (Material Component)							36 ha.	5.6736											36 ha.	5.6736
Preliminary & 1st Year Wage Component @Rs.51100/-								18.396												18.396
2nd Year Maintenance @Rs.1000/- per ha.											(M)	0.36							(M)	0.36

2nd Year Wage Component. @Rs.35910/-											(M)	12.9276						(M)	12.9276	
Renggin Agal																				
Creation of Rubber Nusery (Polybag) @Rs.25/- per plant.	5400 nos.	1.35																5400 nos.	1.35	
	12 ha.																	12 ha.		
Preliminary 1st year plantation @Rs.15760/- per ha. (Material Component)			12 ha.	1.8912															12 ha.	1.8912
Preliminary & 1st Year Wage Component @Rs.51100/-				6.132																6.132
2nd Year Maintenance @Rs.1000/- per ha.								(M)	0.12									(M)	0.12	
2nd Year Wage Component. @Rs.35910/-								(M)	4.3092									(M)	4.3092	
Rangme agal																				
Creation of Rubber Nusery (Polybag) @Rs.25/- per plant.	8100 nos.	2.025																8100 nos.	2.025	
	18 ha.																	18 ha.		
Preliminary 1st year plantation @Rs.15760/- per ha. (Material Component)							18 ha.	2.8368											18 ha.	2.8368
Preliminary & 1st Year Wage Component @Rs.51100/-								9.198												9.198
2nd Year Maintenance @Rs.1000/- per ha.											M									
2nd Year Maintenance @Rs.1000/- per ha.											(M)	0.18						(M)	0.18	
2nd Year Wage Component.											(M)	6.4638						(M)	6.4638	

@Rs.35910/-																			
Haslong Renggin																			
Creation of Rubber Nusery (Polybag) @Rs.25/- per plant.	9450 nos.	2.3625														9450 nos.	2.3625		
	21 ha.															21 ha.			
Preliminary 1st year plantation @Rs.15760/- per ha. (Material Component)			21 ha.	3.3096														21 ha.	3.3096
Preliminary & 1st Year Wage Component @Rs.51100/-				10.731															10.731
2nd Year Maintenance @Rs.1000/- per ha.							(M)	0.21										(M)	0.21
2nd Year Wage Component. @Rs.35910/-							(M)	7.5411										(M)	7.5411
Domatchok Songgital																			
Creation of Rubber Nusery (Polybag) @Rs.25/- per plant.					10800 nos.	2.7										10800 nos.	2.7		
					24 ha.											24 ha.			
Preliminary 1st year plantation @Rs.15760/- per ha. (Material Component)							24 ha.	3.7824										24 ha.	3.7824
Preliminary & 1st Year Wage Component @Rs.51100/-								12.264											12.264
2nd Year Maintenance @Rs.1000/- per ha.										(M)	0.24							(M)	0.24
2nd Year Wage Component. @Rs.35910/-										(M)	8.6184							(M)	8.6184

Domatchok Songgitcham																				
Creation of Rubber Nusery (Polybag) @Rs.25/- per plant.					5400 nos.	1.35											5400 nos.	1.35		
					12 ha.												12 ha.			
Preliminary 1st year plantation @Rs.15760/- per ha. (Material Component)							12 ha.	1.8912											12 ha.	1.8912
Preliminary & 1st Year Wage Component @Rs.51100/-								6.132												6.132
2nd Year Maintenace @Rs.1000/- per ha.											(M)	6.132							(M)	6.132
2nd Year Wage Component. @Rs.35910/-											(M)	0.12							(M)	0.12
TOTAL	14850 nos.				67500 nos.												82350 nos.			
	33 ha.	3.713	33 ha.	22.064	150 ha.	16.88	150 ha.	112.47				57.188					183 ha.	20.5875	183 ha.	191.7219

Convergence of EGH IWMP Project - V with NREGS
RENGGIN RONGA WATERSHED EGH-IWMP-V, RONGJENG C.& R.D.BLOCK
Agro - Horti Norms for NREGS

Location & Activities	2nd year of IWMP		1st Year of NREGS		3rd Year of IWMP		2nd Year of NREGS		4th Year of IWMP		3rd Year of NREGS		5th Year of IWMP		4th Year of NREGS		TOTAL (IWMP)		TOTAL (NREGS)	
	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	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	15	16	17	18	19	20	21
Chtil Apal																				
Agro - Horti @Rs.2000/- per ha.	5 ha.	0.1			20 ha.	0.4											25 ha.	0.5		
Preliminary 1st year plantation @Rs.3900/- per ha.			5 ha.	0.195			20 ha.	0.78											25 ha.	0.975
2nd Year Maintenace @Rs.2700/- per ha.							(M)	0.135			(M)	0.54							(M)	0.675
Mogugittim																				
Agro - Horti @Rs.2000/- per ha.	6 ha.	0.12			10 ha.	0.2											16 ha.	0.32		
Preliminary 1st year plantation @Rs.3900/- per ha.			6 ha.	0.234			10 ha.	0.39											16 ha.	0.624
2nd Year Maintenace @Rs.2700/- per ha.							(M)	0.162			(M)	0.27							(M)	0.432
Renggin Apal																				
Agro - Horti @Rs.2000/- per ha.	4 ha.	0.08			10 ha.	0.2											14 ha.	0.28		
Preliminary 1st year plantation @Rs.3900/- per ha.			4 ha.	0.156			10 ha.	0.39											14 ha.	0.546
2nd Year Maintenace @Rs.2700/- per ha.							(M)	0.108			(M)	0.27							(M)	0.378
Rangme Agal																				
Agro - Horti @Rs.2000/- per ha.					10 ha.	0.2											10 ha.	0.2		
Preliminary 1st year plantation @Rs.3900/- per ha.							10 ha.	0.39											10 ha.	0.39
2nd Year Maintenace @Rs.2700/- per ha.											(M)	0.27							(M)	0.27

Haslong Renggin																				
Agro - Horti @Rs.2000/- per ha.					10 ha.	0.2											10 ha.	0.2		
Preliminary 1st year plantation @Rs.3900/- per ha.							10 ha.	0.39											10 ha.	0.39
2nd Year Maintenace @Rs.2700/- per ha.											(M)	0.27							(M)	0.27
Domatchok songgital																				
Agro - Horti @Rs.2000/- per ha.					12 ha.	0.24											12 ha.	0.24		
Preliminary 1st year plantation @Rs.3900/- per ha.							12 ha.	0.468											12 ha.	0.468
2nd Year Maintenace @Rs.2700/- per ha.											(M)	0.324							(M)	0.324
Domatchok songgital																				
Agro - Horti @Rs.2000/- per ha.					13 ha.	0.26											13 ha.	0.26		
Preliminary 1st year plantation @Rs.3900/- per ha.							13 ha.	0.507											13 ha.	0.507
2nd Year Maintenace @Rs.2700/- per ha.											(M)	0.351							(M)	0.351
TOTAL	15 ha.	0.3	15 ha.	0.585	85 ha.	1.7	85 ha.	3.72	0	0	0	2.295	0	0	0	0	100 ha.	2	100 ha.	6.6

PROJECT PHASING & BUDGETING

ACTION PLAN OF RONGTIT WATERSHED UNDER IWMP - V, SIMSANGGRE SOIL & WATER CONSERVATION DIVISION, WILLIAMNAGAR.

Name of District : East Garo Hills

No. of Villages - 2 Nos.

Name of C & R.D. Block : RONGJENG

Project Area - 500 Ha.

Sl. No	Activities	I st Year				Co-ordinates	II nd Year				Co-ordinates	III rd Year				Co-ordinates	IV th Year				V th Year				Total			
		C.S.		S.S.			C.S.		S.S.			C.S.		S.S.			C.S.		S.S.		C.S.		S.S.		C.S.		S.S.	
		Phy	Fin	Phy	Fin		Phy	Fin	Phy	Fin		Phy	Fin	Phy	Fin		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	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
I	MANAGEMENT COST:																											
A.	Administrative cost:																											
i.	Honourarium of WDT Members @ Rs. 8000/ month - 1 no. X 18 month.						0.48					0.48					0.48									1.44		
ii.	Hon ^{rm} of Watershed Volunteers @ Rs. 2500/- month - 3 nos.											0.3														0.3		
iii.	Hon ^{rm} WCO's @ Rs.1000/month x 18 months											0.18														0.18		
iv.	Hon ^{rm} WCM @ Rs.200 x 11 Nos. members/ month for 36 months						0.264					0.264					0.264									0.792		
v.	Hon ^{rm} Office assistance @Rs.5000/month x 18 months.											0.9														0.9		
vi.	Hon ^{rm} Chartered Accountant						0.1					0.1					0.2									0.4		
vii.	TA/DA of Field Asstt. @ 5000/ month.											0.3														0.3		
viii.	Hiring charges of office building @ 1500/-						0.18					0.18					0.18									0.54		
ix.	Hiring charges of vehicle @ 5000/month.						0.1					0.25					0.2									0.55		
x.	Office expenses, POL, Stationeries, printing of SHG's books, pamphlets, tea, snacks etc, cost of camera.						0.376					0.796					0.926									2.098		
	Total of A:						1.5					3.75					2.25									7.5		

D	Livelihood Activities for landless persons:																																
		Unit		Unit		Unit		Unit		Unit		Unit		Unit		Unit		Unit		Unit		Unit											
	NAGIMARAM																																
	1. Tailoring @ Rs 8000/- unit					1	0.08					4	0.32					1	0.08					3	0.24					6	0.48	3	0.24
	2. Carpentry @ Rs 5000/- Unit					2	0.1					5	0.25											5	0.25					7	0.35	5	0.25
	3. Piggery @ Rs. 8000/- unit					2	0.16					4	0.32					8	0.64										14	1.12			
	4. Apiculture																	2	0.16										2	0.16			
	5. Pisciculture																	2	0.2										2	0.2			
	6. Weaving @Rs.12500/- unit.																	3	0.375										3	0.375			
	7. kitchen gardening @ Rs. 2500/-					3	0.075					11	0.275											20	0.5				14	0.35	20	0.5	
	MECHIMRAM																																
	1. Tailoring @ Rs 8000/- unit					1	0.08					3	0.24					1	0.08					2	0.16					5	0.4	2	0.16
	2. Carpentry @ Rs 5000/- Unit					2	0.1					5	0.25											5	0.25					7	0.35	5	0.25
	3. Piggery @ Rs. 8000/- unit					1	0.08					4	0.32					7	0.56										12	0.96			
	4. Apiculture																	1	0.08										1	0.08			
	5. Pisciculture																	2	0.2										2	0.2			
	6. Weaving @Rs.12500/- unit.																	2	0.25										2	0.25			
	7. kitchen gardening @ Rs. 2500/-					3	0.075					11	0.275											19	0.475				14	0.35	19	0.475	
	Total of D:					15	0.75					47	2.25					29	2.625					54	1.875				91	5.625	54	1.875	

E.	Production System and Micro Enterprises (SHG's/Groups) :																										
		Unit				Unit				Unit				Unit				Unit									
	RONGTHIT WATERSHED																										
	NAGIMARAM																										
	Mud block making													1	0.3			1	0.3					1	0.3	1	0.3
	Handloom/weaving													1	0.3			1	0.3					1	0.3	1	0.3
	Water pump/Rice Mill													2	1			1	0.5					1	0.5	2	1
	Piggery					1	0.3							1	0.3			2	0.6					3	0.9	1	0.3
	Pisciculture													1	0.3											1	0.3
	Ginger / Turmaric Plantation @Rs.15000/-unit.					1	0.15											4	0.6					5	0.75		
	MECHIMRAM																										
	Mud block making													1	0.3			1	0.3					1	0.3	1	0.3
	Handloom/weaving													1	0.3			1	0.3					1	0.3	1	0.3
	Water pump/Rice Mill													1	0.5			2	1					2	1	1	0.5
	Piggery					1	0.3							1	0.3			2	0.6					3	0.9	1	0.3
	Pisciculture																	1	0.3					1	0.3		
	Ginger / Turmaric Plantation @Rs.15000/-unit.													1	0.15			3	0.45					3	0.45	1	0.15
	Total of E :					3	0.75							11	3.75			19	5.25					22	6	11	3.75

**Convergence of EGH IWMP Project -V with NREGS
RONGTIT WATERSHED EGH-IWMP-V, RONGJENG C.& R.D.BLOCK
Rubber Plantation Norms for NREGS**

Location & Activities	2nd year of IWMP		1st Year of NREGS		3rd Year of IWMP		2nd Year of NREGS		4th Year of IWMP		3rd Year of NREGS		5th Year of IWMP		4th Year of NREGS		TOTAL (IWMP)		TOTAL (NREGS)	
	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	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	15	16	17	18	19	20	21
Nagimaram																				
Creation of Rubber Nusery (Polybag) @Rs.25/- per plant.					7650 nos.	1.9125											7650 nos.	1.9125		
					17 ha.												17 ha.			
Preliminary 1st year plantation @Rs.15760/- per ha. (Material Component)							17 ha.	2.6792											17 ha.	2.6792
Preliminary & 1st Year Wage Component @Rs.51100/-								8.687												8.687
2nd Year Maintenace @Rs.1000/- per ha.											(M)	0.17							(M)	0.17
2nd Year Wage Component. @Rs.35910/-											(M)	6.1047							(M)	6.1047
Mechimram																				
Creation of Rubber Nusery (Polybag) @Rs.25/- per plant.	2250 nos	0.5625			4950 nos.	1.2375											7200 nos.	1.8		
	5 ha.				11 ha.												16 ha.			
Preliminary 1st year plantation @Rs.15760/- per ha. (Material Component)			5 ha.	0.788			11 ha.	1.7336											16 ha.	2.5216
Preliminary & 1st Year Wage Component @Rs.51100/-				2.555				5.621												8.176
2nd Year Maintenace @Rs.1000/- per ha.							(M)	0.05			(M)	0.11							(M)	0.16
2nd Year Wage Component. @Rs.35910/-							(M)	17.955			(M)	3.9501							(M)	21.9051
TOTAL	2250 nos	0.5625	5 ha.	3.343	12600 nos.	3.15	28 ha.	36.7258				10.3348					14850 nos.	3.7125	33 ha.	50.4036
	5 ha.				28 ha.												33 ha.			

Convergence of EGH IWMP Project - V with NREGS
RONGTIT WATERSHED EGH-IWMP-V, RONGJENG C.& R.D.BLOCK
Agro - Horti Norms for NREGS

Location & activities	2nd year of IWMP		1st Year of NREGS		3rd Year of IWMP		2nd Year of NREGS		4th Year of IWMP		3rd Year of NREGS		5th Year of IWMP		4th Year of NREGS		TOTAL (IWMP)		TOTAL (NREGS)		
	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Nagimaram																					
Agro - Horti @Rs.2000/- per ha.	3 ha.	0.06			18 ha.	0.36												21 ha.	0.42		
Preliminary 1st year plantation @Rs.3900/- per ha.			3 ha.	0.117			18 ha.	0.702												21 ha.	0.819
2nd Year Maintenance @Rs.2700/- per ha.							(M)	0.081			(M)	0.486									0.567
Mechimram																					
Agro - Horti @Rs.2000/- per ha.	2 ha.	0.04			12 ha.	0.24												14 ha.	0.28		
Preliminary 1st year plantation @Rs.3900/- per ha.			2 ha.	0.078			12 ha.	0.468												14 ha.	0.546
2nd Year Maintenance @Rs.2700/- per ha.							(M)	0.054			(M)	0.324									0.378
TOTAL	5 ha.	0.1	5 ha.	0.195	30 ha.	0.6	30 ha.	1.305				0.81						35	0.7	35 Ha	2.31

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

1	2	3	4	5	6		7	8	9	10				11				
Sl No	Name of State	Name of Districts	Names of Projects	Year of sanction	Project duration (dd/mm/yyyy)		Area of the projects	Project cost (Rs. In lakh)	Names of Micro watersheds & Code nos. (as per DoLR's unique codification)	Area (ha) of the projects				Area details (ha) (falling within the projects)				
					From	To				Cultivated rainfed area	Cultivated irrigated area	Uncultivated wasteland		Pvt. Agri. Land	Forest land	Community land	Others (pl. specify)	Total area (ha)
												a) Temporary fallow	b) Permanent					
1	Meghalaya	East Garo Hills	East Garo Hills – IWMP-V	2010	2009-2010	2014-2015	2000 ha.	30.00	Renggin Ronga 3C1A5b2a Rongtit 3C1A5b2f	430	-	1570	-	-	-	-	-	2000 Ha.

Fund provision for the IWMP projects from all sources:

1	2	3		4										5
District	Name of Projects	IWMP Fund		Funds from other sources in addition to IWMP funds										Total
				Convergence funds		PPP		Community		Institutional finance		Others (Pl. specify)		
		Central Share	State Share	Name of Scheme	Amount (Lakhs)	Name of private sector	Financial contribution	Name	Financial contribution	Name	Financial contribution	Name	Financial contribution	
East Garo Hills	East Garo Hills – IWMP- V	270.0 lakhs	30.0 lakhs	NREGS	251.0355									

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

1	2	3	4	5				6				
Sl. No.	Names of States	Name of Districts	Names of Projects	Distt. Agency's Project Account details				Watershed Committee (WC) account details:				
				Name of the Bank and Branch where project account has been opened	Account number (to be obtained confidentially)	Account type (Savings/current others)	Name & Designation of authorized persons who operate the account.	Name of Watershed Committee	Name of the Bank and Branch where project account has been opened	Account number (to be obtained confidentially)	Account type (Savings/current others)	Name & Designation of authorized persons who operate the account.
1	Meghalaya	East Garo Hills	East Garo Hills – IWMP- V	Yet to be opened.	-	-	Chairman Watershed Committee, Secretary Watershed Committee Project Leader/WDT	Renggin Rongga Watershed Committee Ronbgtit Watershed Committee	Yet to be opened.	Yet to be obtained.	-	Chairman Watershed Committee, Secretary Watershed Committee Project Leader/WDT

Details of Convergence of IWMP with other Schemes:

	1	2	3	4	5	6	7
Sl. No.	District	Names of projects	Names of Departments with Schemes converging with IWMP	Fund made available to IWMP due to convergence (Rs. in lakh)	Name of activity/task/structure undertaken with converged funds	Reference no. of activity/ task/ structure in DPR [@]	Level at which decision for convergence was taken ^{\$}
					(a) Structures (b) livelihoods (c) Any other (pl. specify) [#]		
1	East Garo Hills	East Garo Hills – IWMP-V	* Community Rural Development Department NREGS	-	i) Agro-Horticulture – 135 Ha. ii) Rubber Planting – 216 Ha.	List of NREGS convergence enclosed.	Block Level & District Level
2			-	-	-	-	

Note:

(i)

Public-Private Partnership in the IWMP projects: NIL

1	2	3	4			5		6	7	8	9
District	Name of project	Name of Private Sector Partner Agency	Type of agreement signed			Financial contribution		Partnership Interventions	Expected Outcomes	Actual Outcomes	Comments
			a)MoU	b)Contract	c) Any other (pl. specify)	IWMP	Private sector				
East Garo Hills	EGH-IWMP-V										

* 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

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

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

1	2	3	4	5	6	7	8	9					
								S. No	State	Name of the Training Institute	Full Address with contact no., website & e-mail	Name & Designation of the Head of Institute	Type of Institute [#]
Refer-ence Year	No. of trainings assigned	No. of trainees to be trained	No. of trainings conducted	No. of trainees trained									
1	Meghalaya	NIRD (NER)	Guwahati	Director	Central Govt.	Remote Sensing, Rural Devt.	NA	-					
2		SIRD	Nongsder	Director	State Govt.	Capacity Building	NA	-					
3		RRTC	Umran	Director	Don-Bosco	Agri-Horti, Animal Husbandry, Entrepreneurship	NA						
4		ICAR	Umiam	Director	Central Govt.	Do	NA						
5		VTC	Kyrdem Kulai	Director	State Govt.	Animal Husbandry	NA						
6		Fruit Garden	Shillong	Director	State Govt.	Agri-Horti, Fruit Processing	NA						

- From Column no. 2, total no. of States implementing the programme, from Column no. 3, no. of training institutes, from column No. 9, total no. of category-wise trainings and trainees may be given at the end of the table for the entire country

- # Central govt. Dept./ State govt. Dept./ Autonomous Body/ Research Institutes/ Universities/ Others (pl. specify)

\$ Capacity Building/ Agriculture/ Horticulture/ Animal Husbandry/ Pisciculture/ Remote Sensing/ Water conservation/ Ground water/ Forestry/ livelihoods/ entrepreneurship development/ others (pl. specify)

@ The training institutes must fulfill the conditions mentioned in the operations guidelines.

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

Table 6.2: Capacity Building activities for the year 10-11 as on 31/03/2010 (dd/mm/yyyy)*

1 Project Stakeholders	2 Total no. of persons	3 No. of persons trained so far	4 No. of persons to be trained during current financial year	5 No. of persons trained during current financial year	6 Sources of funding for training		7 Funds utilized (Lakhs)	
					a) DoLR	b) Any other (Pl. specify)	a) DoLR	b) Any other (Pl. specify)
SLNA			400 Nos.	-	1.50	-	1.50	-
DRDA/ZP cell			25 Nos.	-				
PIAs			25 Nos.	-				
WDTs			120 Nos.	-				
UGs			20 Nos.	-				
SHGs			30 Nos.	-				
WCs			16 Nos.	-				
GPs			15 Nos.	-				
Community			250 Nos.	-				
Others Pl. specify)								

Table 6.3: Information, Education & Communication (IEC) activities for the year 10-11 as on 31/03/10 (dd/mm/yyyy)*

	1	2	3	4	5
	Activity	Executing agency	Estimated expenditure (Rs.)	Expenditure incurred (Rs.)	Outcome (may quantity, wherever possible)
1.	Awareness	S&WC (T) Division	3.0	-	
2.	Exposure Visits	S&WC (T) Division	2.175	0.425	
3.	Capacity Building	S&WC (T) Division	9.075	1.825	

CHAPTER VII EXPECTED OUTCOME

Table 7.1 Employment related outcomes:

Sl No	Name of Village	1										2				
		Wage employment										Self employment				
		No. of mandays					No. of beneficiaries					No. of beneficiaries				
		SC	ST	Others	Women	Total	SC	ST	Others	Women	Total	SC	ST	Others	Women	Total
1.	Mogogittim															
2.	Chitil Apal															
3.	Renggin Apal															
4.	Rangme Agal															
5.	Haslong Renggin		97200		48000	97200		308			308		30		10	30
6.	Dumatchok Songgital															
7.	Dumatchok Songgitcham															
8.	Haslong Mechinram															
9.	Nagimaram															
	TOTAL :		97200		48000	97200		308			308		30		10	30

Table 7.2 Migration Details:

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

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

Table 7.3 Economic benefits accrued to women:

1		2		3		4
Wages		Training		Livelihoods		Total (Rs. in lakh)
Woman days	Amount (Rs. in lakh)	No. of women participants	Amount (Rs. in lakh)	No. of women beneficiaries	Value of assistance provided (Rs. in lakh)	
48000	48.00					48.00

* 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 Names of the Districts	2 Names of the projects	3 Names of the villages	4 Particular of CPR	5 Nature of right	6 Period of right	7 Beneficiary details (no. of families)				8 User Charges (Rs.)
						SC	St	Others	Total	
East Garo Hills	East Garo Hills – IWMP -V	Mogogittim	Community Forest & Check dam.	F, FW, G, P, Rd, T, Wd, Wi.	Live long		308		308	
		Chitil Apal								
		Renggin Apal								
		Rangme Agal								
		Haslong Renggin								
		Dumatchok Songgital								
		Dumatchok Songgitcham								
		Haslong Mechinram								
Nagimaram										

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

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

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

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

Table 7.5 Water related outcomes:

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

1	2	3	4	5	6	7	8
Names of Districts	Names of Projects	Sources	Pre-Project level	Mid-term project level	Post-Project level	Increase/decrease (Col. 8 – Col. 6)	Remarks
East Garo Hills	East Garo Hills – IWMP -V	Open wells	-	-	-	-	-
		Bore wells	-	-	-	-	-
		Others (specify) Springs	very poor poor	poor	Good	Increased	-

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

Table 7.5.2 Status of Drinking water:

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

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

Table 7.5.3 Water Use efficiency:

1	2	3	4			
District	Name of the project	Name of major crop	Water savings in cu.m.			
			through water saving devices ^{\$}	through water conserving agronomic practices [#]	Any other (pl specify)	Total
East Garo Hills	East Garo Hills – IWMP -V	Paddy	NIL	NIL	-	-
		Ginger	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 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	4						5						6					
Names of the Districts	Name of Projects	Name of crops	Pre-project						Mid-term						Post-project					
			Area (ha)		Average Yield (Qtl) per ha.		Total Production (Qtl)		Area (ha)		Average Yield per ha (Qtl)		Total Production (Qtl)		Area (ha)		Average Yield per ha (Qtl)		Total Production (Qtl)	
			Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.
East Garo Hills	East Garo Hills – IWMP -V	Paddy	-	445		19.36		8615.2												
		Millet	-																	
		Soyabean	-																	
		Yam	-																	
		Ginger	-	75		56		4200												
		Tapioca	-																	
		Betel nut	-																	
		Betel leaf	-																	
		Black Pepper	-																	
		Oranges	-																	

* 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 Sl No.	2 Names of States	3 Names of the Districts	4 Name of Projects	5 Name of crops	6						7						8				
					Pre-project						Mid-term						Post-project				
					Area (ha)		Average Yield (Qtl) per ha.		Total Production (Qtl)		Area (ha)		Average Yield per ha (Qtl)		Total Production (Qtl)		Area (ha)		Average Yield per ha (Qtl)		Total Production (Qtl)
Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.		
	Meghalaya	East Garo Hills	East Garo Hills – IWMP-V	Paddy	-	445		19.36		8615.2											-
				Ginger	-	75		56		4200											
			Total for the District																		

* 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		
District	Name of project	Duration of Project	Existing area under fodder (ha)			Achievement (ha)		
			Source/Name of report	Year of reference	Area already under fodder	Area under fodder proposed to be covered through IWMP	Area under fodder actually covered through IWMP	Change in area under fodder
East Garo Hills	East Garo Hills – IWMP -V	5 yrs	-	NA	NA	nil	nil	nil

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

Table 7.6.5 Increase/ Decrease in Forest/vegetation cover:

1	2	3	4			5		
District	Name of project	Duration of Project	Existing area tree cover (ha)			Achievement (ha)		
			Source/Name of report	Year of reference	Area already under forest/vegetative cover	Forest/vegetative cover area proposed to be covered under IWMP	Forest/vegetative cover area actually covered under IWMP	Change in forest/vegetative cover area
East Garo Hills	East Garo Hills – IWMP-V	5 yrs	Actual Baseline Survey		570	570		

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

Table 7.6.6 Increase/ Decrease in area under horticulture:

1	2	3	4			5		
District	Name of project	Duration of Project	Existing area under horticulture (ha)			Achievement (ha)		
			Source/Name of report	Year of reference	Area already under horticulture	Area under horticulture proposed to be covered through IWMP	Area under horticulture actually covered through IWMP	Change in area under horticulture
East Garo Hills	East Garo Hills – IWMP-V	5 yrs				135 ha.		

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

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

1	2	3	4			5		
District	Name of project	Duration of Project	Existing area under fodder (ha)			Achievement (ha)		
			Source/Name of report	Year of reference	Area already under fuel-wood	Area under fuel-wood proposed to be covered under IWMP	Area under fuel-wood actually covered under IWMP	Change in area under fuel-wood
East Garo Hills	East Garo Hills – IWMP-V	5 yrs			N	I	L	

* 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	
East Garo Hills	East Garo Hills – IWMP-V	Milch- animals	nil	nil	nil	nil	nil	nil	nil	nil	nil	
		Piggery										
		Poultry										
		Apiculture in unit										
	Total for all projects											

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

Table 7.7.2 Details of other livelihoods created for landless people:

1	2	3	4	5				6	7					8				
District	Project	Name of activity	Fund required for the activity (Rs.)	Sources of funding (Rs.)				Actual Expenditure incurred on activity (Rs.)	No. of beneficiaries trained					No. of beneficiaries taking up activity				
				Project Fund	Beneficiary	Others (pl. specify)	Total		SC	ST	Others	Women	Total	SC	ST	Others	Women	Total
East Garo Hills	East Garo Hills – IWMP -V	Tailoring	AS ENCLOSED ACTION PLAN															
		Basket - making																
		Stabilized Mud -making																
		Vermi - compos -ting																
		Kitchen - gardening																

(Contd.)

* Landless Family – 131 Nos.

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

Table 7.7.3 Details of other livelihoods created for landless people:

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

Table 7.7.4 Details of other livelihoods created for farmers:

1	2	3	4	5				6	7				8				
District	Project	Name of activity	Fund required for the activity (Rs.) in lakhs	Sources of funding (Rs.) in Lakhs				Actual Expenditure incurred on activity (Rs.)	No. of farmers trained				No. of farmers taking up activity				
				Project Fund	Benefi-ciary	Others (pl. specify)	Total		SF	MF	LF	Total	SF	MF	LF	Total	
East Garo Hills	East Garo Hills – IWMP -V	i) Betelnut soaking															
		ii) Fruit processing															
		iii) Rural Godown															
		iv) Ropeway															

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

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

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

Table 7.8 Marketing related outcomes:

Backward-Forward linkages *

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

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

Table 7.9 Abstract of outcomes:

1	2	3	4	5	6	7
Sl. No.	State	Item	Unit	Pre-project Status	Post-project Status	Remarks
	Meghalaya	Status of water table				
		Ground water structures repaired/ rejuvenated				
		Quality of drinking water				
		Availability of drinking water				
		Increase in irrigation potential				
		Change in cropping/ land use pattern				
		Area under agricultural crop				
		i Area under single crop				
		ii Area under double crop				
		iii Area under multiple crop				
		Net increase in crop production area				
		Increase in area under vegetation				
		Increase in area under horticulture				
		Increase in area under fuel & fodder				
		Increase in milk production				
		No. of SHGs				
		Increase in no. of livelihoods				
		Increase in income				
		Migration				
		No. of school going children				
		SHG Federations formed				
		Credit linkage with banks				
		Resource use agreements				
	WDF collection & management					
	Summary of lessons learnt	May be attached as a separate file				

Table 7.10 Cost effectiveness of structures/ activities*

1	2	3	4	5	6	7	8	9	10
District	Name of project	Name of WC	Name of structure/ activity	Estimated cost (Rs.)	Expected quantifiable benefits (Rs.)	Expenditure incurred (Rs.)	Actual quantifiable benefit (Rs.)	Benefit: Cost ratio [#]	IRR
East Garo Hills	East Garo Hills – IWMP-V	East Garo Hills – IWMP-V Watershed Committee	NA	234.0	NA	NIL	NIL	1:1.5	NA

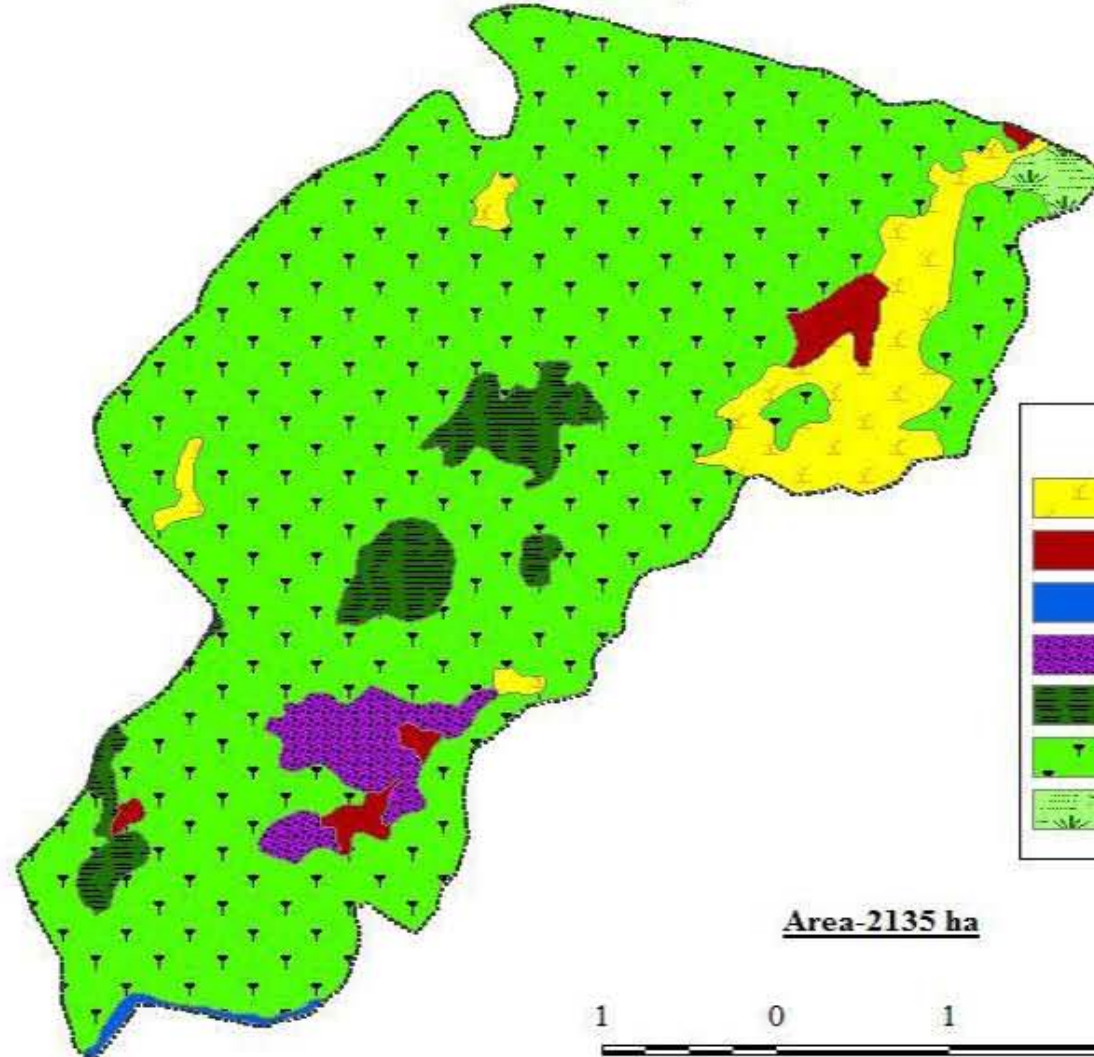
* from column no. 2, total no. of States implementing the programme, from column no. 3, total no. of Districts; from Column no. 4, no. of projects, from column no. 5, no. of WCs, from column no. 6, no. of structures/ activities, from column no. 7 to 10, category-wise# totals, may be mentioned at the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

[#] B:C ratio more than 1 – cost effective
less than 1 – Not cost effective

Landuse Landcover Map

Rengin-ronga and Rongthit Micro Watershed

IWMP-V (EGHD)



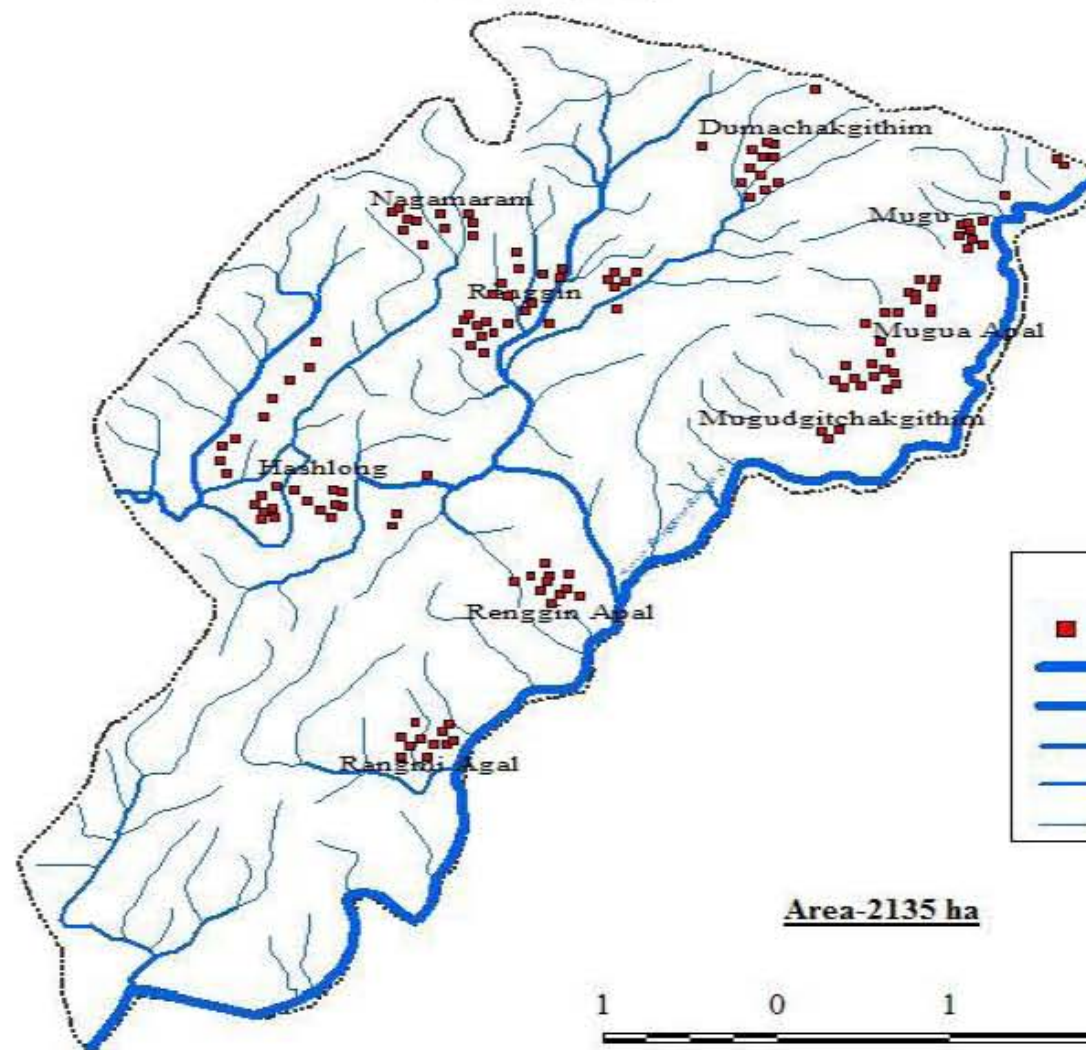
Legend		
	Agriculture	- 158 Ha.
	Builtup Rural	- 39 Ha.
	River	- 8 Ha.
	Barren Land/ Stony waste	- 66 Ha.
	Tree Clad Close	- 109 Ha.
	Tree Clad Open	- 1739 Ha.
	Waste land/ Dense scrub	- 16 Ha.

Area-2135 ha



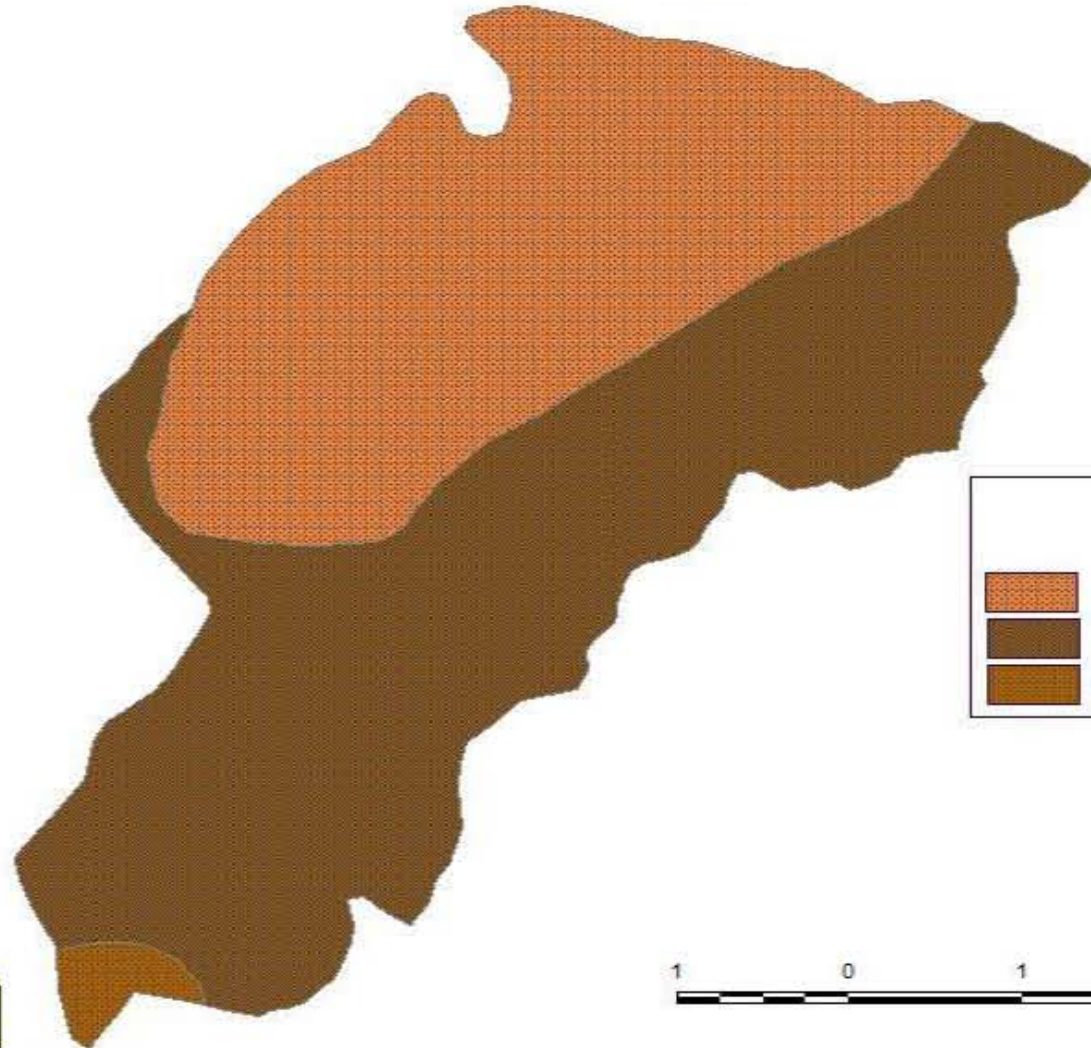
PREPARED AT:
GIS LAB STATE LEVEL NODAL AGENCY
SOIL & WATER CONSERVATION DEPARTMENT
MEGHALAYA

Drainage Map
Rengin-ronga and Rongthit Micro Watershed
IWMP-V (EGHD)






PREPARED AT:
GIS LAB STATE LEVEL NODAL AGENCY
SOIL & WATER CONSERVATION DEPARTMENT
MEGHALAYA

Soil Map
Rengin-ronga and Rongthit Micro Watershed
IWMP-V (EGHD)



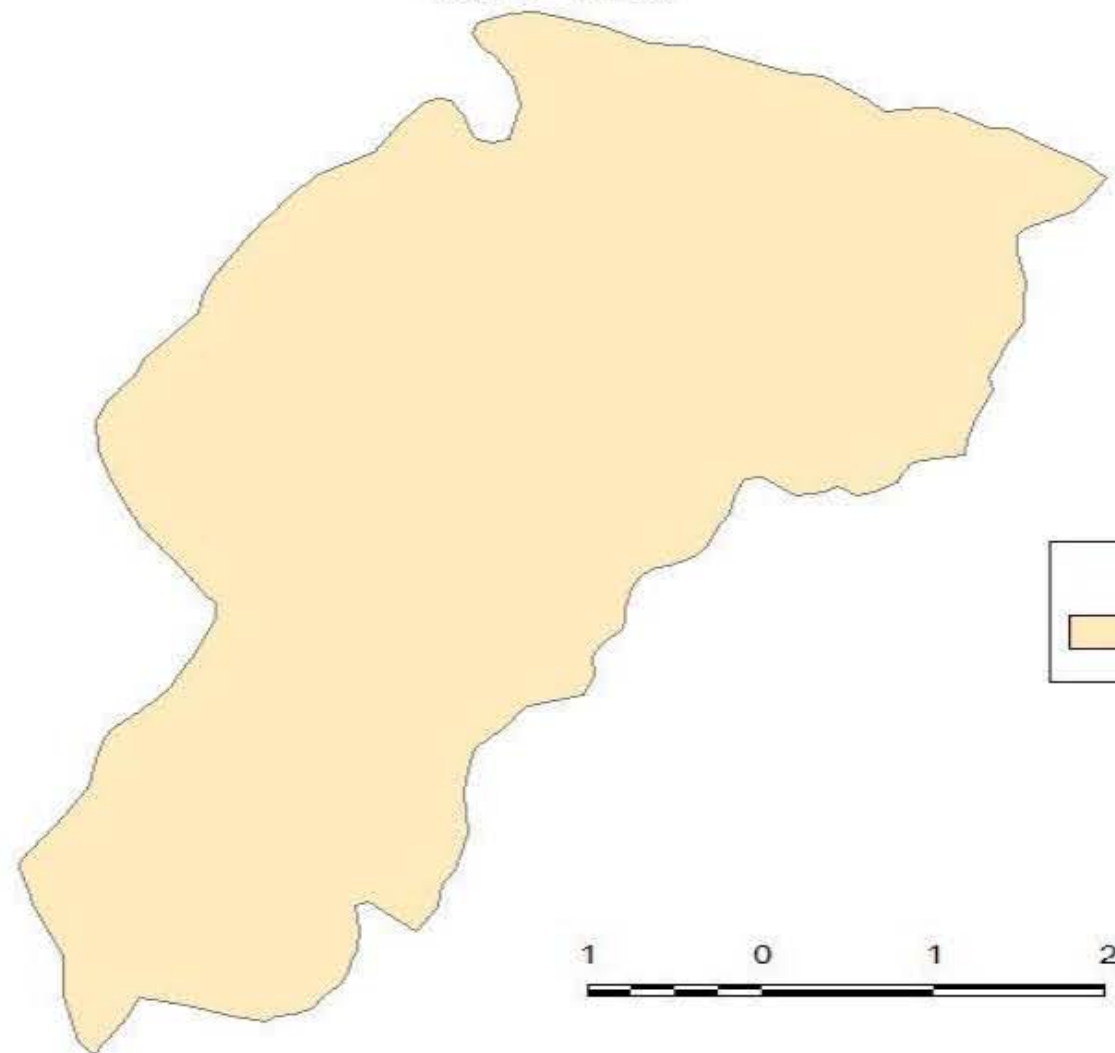
Legend

	<u>Depth.</u>	<u>Texture.</u>	<u>Erosion</u>
	Fine-loam	(Deep	Medium Moderate)
	Skeletal-loam	(Deep	Medium Moderate)
	Fine	(Deep	Medium Moderate)



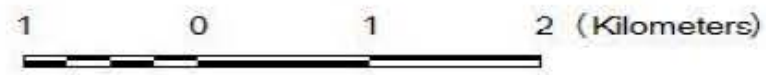
PREPARED AT:
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SOIL & WATER CONSERVATION DEPARTMENT
MEGHALAYA

Agro-Climatic Map
Rengin-ronga and Rongthit Micro Watershed
IWMP-V (EGHD)



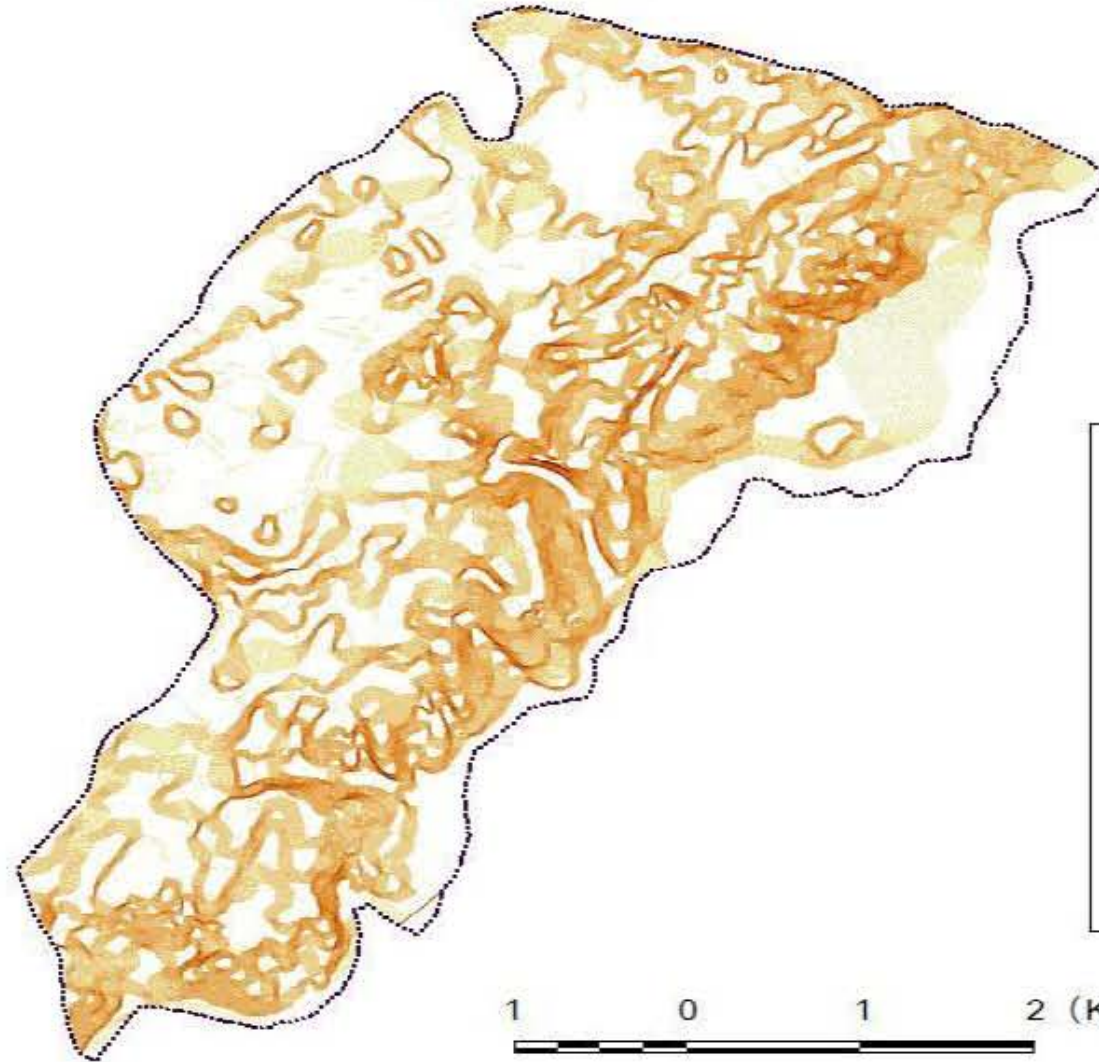
Legend

 Mild Moisture (Md,M)



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SOE & WATER CONSERVATION DEPARTMENT
MEGHALAYA

Slope Map
Rengin-ronga and Rongthit Micro Watershed
IWMP-V (EGHD)



Legend

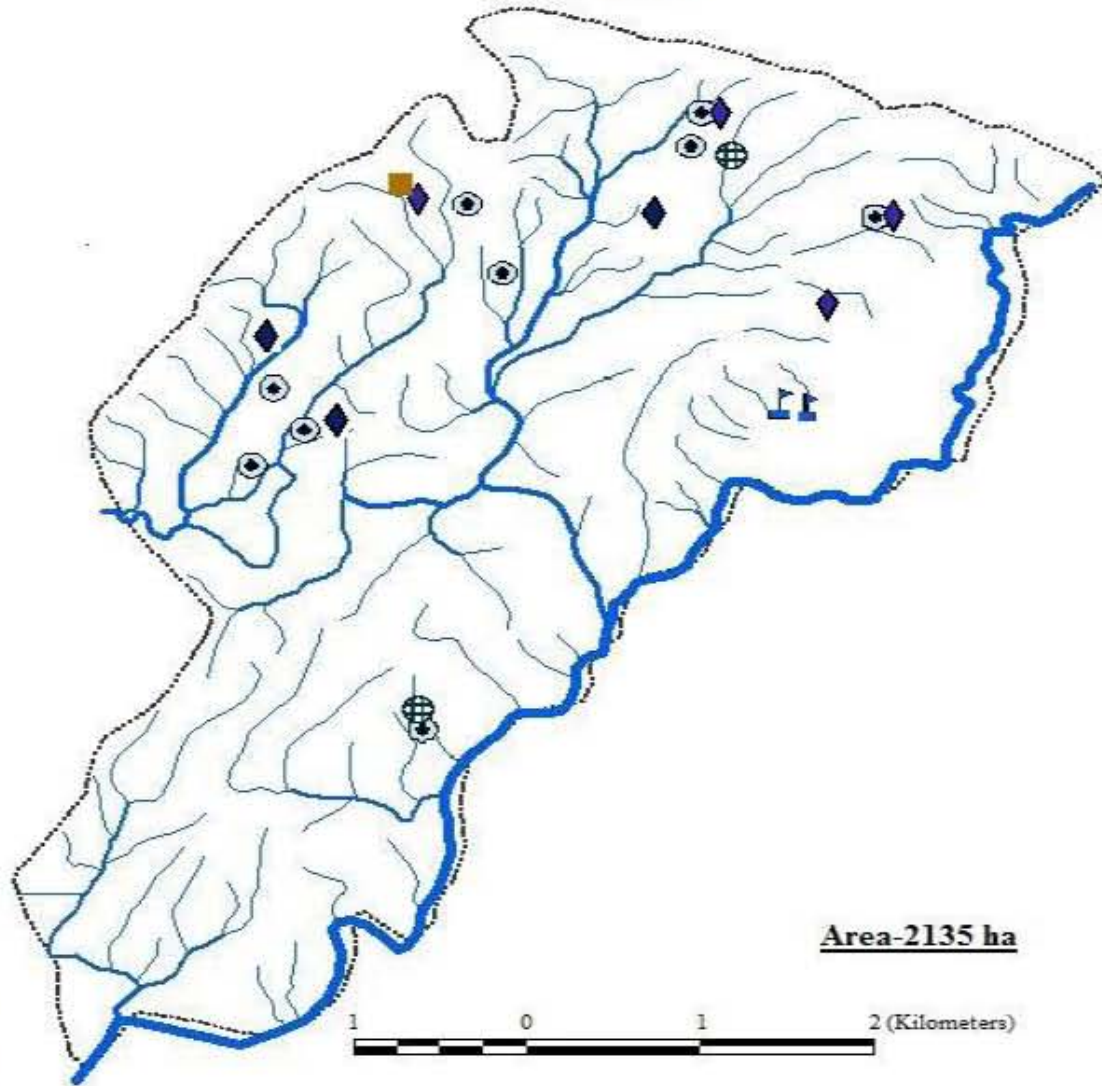
Slope in percentage

White	0 - 7
Light Yellow	7 - 14
Yellow	14 - 21
Light Orange	21 - 28
Orange	28 - 35
Dark Orange	35 - 42
Brown	42 - 49
Dark Brown	49 - 56
Red	56 - 63
Black	63 - 70

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1 0 1 2 (Kilometers)

Entry Point Activity Map
Rengin-ronga and Rongthit Micro Watershed
IWMP-V (EGHD)



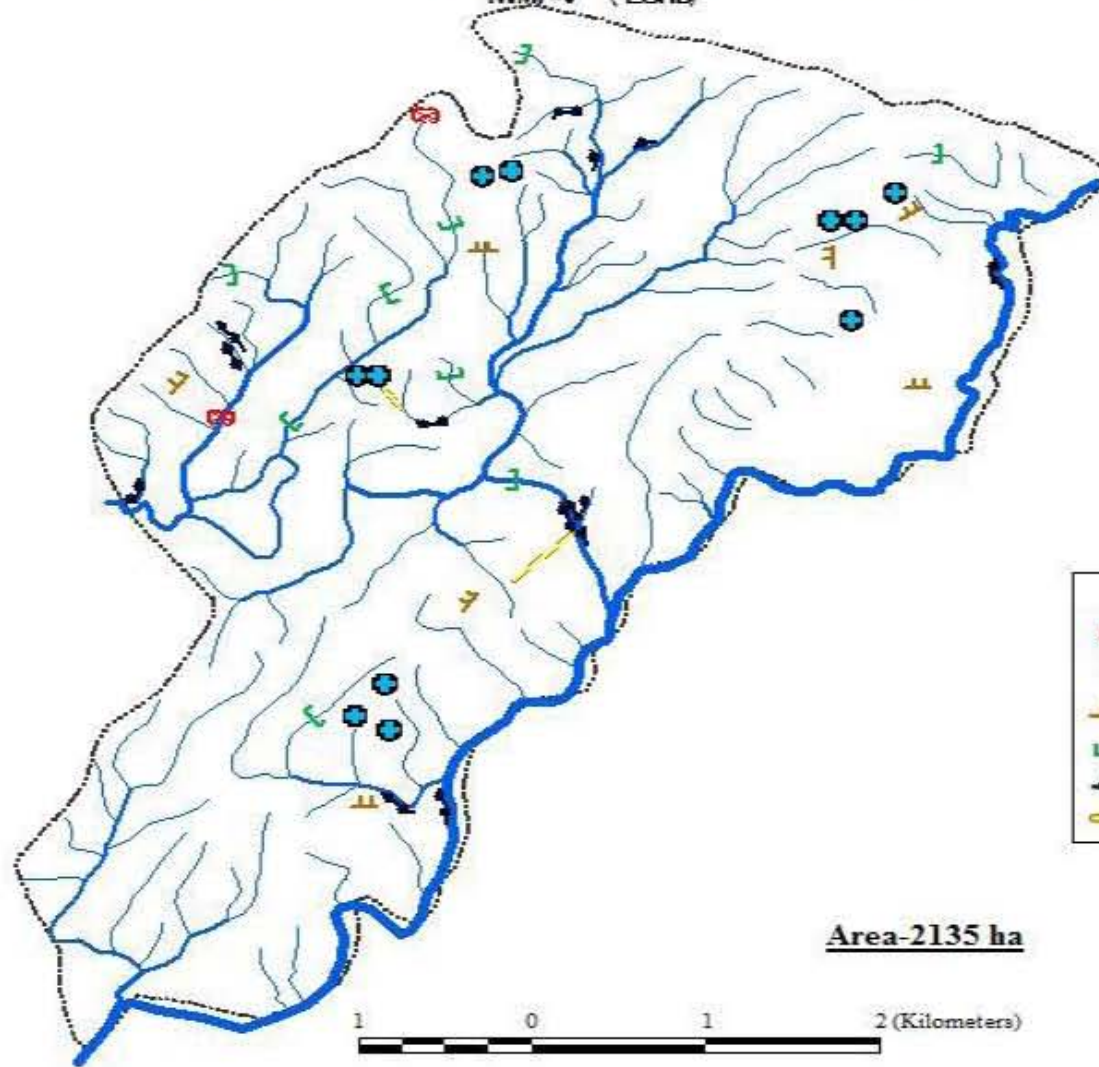
- Legend**
- Playground
 - Culvert
 - Ringwell
 - Latrine
 - School Building

Area-2135 ha



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Proposed Engineering Map
Rengin-ronga and Rongthit Micro Watershed
IWMP-V (EGHD)



Legend	
	Water Harvesting
	Dug-out Pond
	Terrace
	C.C. Dam
	Boulder Sausage
	C.C. Channel

Area-2135 ha



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