

# **DETAILED PROJECT REPORT**

**RANGENANG, CHICHOTCHENG INTEGRATED WATERSHED MANAGEMENT PROGRAMME**

**EGH - IWMP – IV**

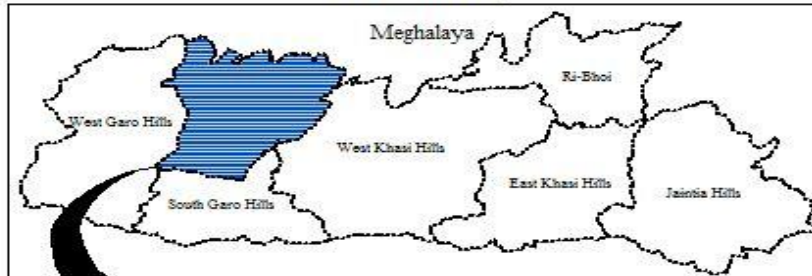
**2010 – 2011**

**RESUBELPARA C & RD BLOCK**

**EAST GARO HILLS DISTRICT**

**MEGHALAYA**

### Location Map



### East Garo Hills



### Rangenang-Chichotcheng Watershed



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### **SUMMARY**

Name of the Sate	:	Meghalaya
Name of the District	:	East Garo Hills District
Name of the C&RD Block	:	Resubelpara C & RD Block
Name of the Villages	:	Bakenang Songma, Bakenang Nalsa, Chambildam, Konapara, Sonachiring, Chichotcheng, Bolongpang & Nokwal Ading
Name of the Project	:	East Garo Hills – IWMP – IV
Total Geographical Area	:	1366 Ha
Total Treatment Area	:	1000 Ha
Total Project Cost	:	150.0 lakhs
Project Duration	:	5 Years
Project Implementing Agency	:	Simsanggre Soil & Water Conservation Division, Williamnagar.

# CHAPTER I

## INTRODUCTION AND BACKGROUND

### 1.1 Project Background:

The Rangenang & Chichotcheng (IWMP- IV) project is located in Resubelpara C&RD Block, East Garo Hills District of Meghalaya. Consisting of a single micro-watershed, the project area is drained by the Rangenang Chichotcheng Stream and its tributaries flowing from West to East. The total area is 1366 Ha. with 1000 to be treated under the Integrated Watershed Management Programme (IWMP).

The Project area is located at a distance of about 27 km from Resubelpara Civil sub Division Head Quarter and about 102 km from Williamnagar the District Headquarter.

A total of 8

( eight) villages are covered under the project. These are –

- |                    |                   |                 |
|--------------------|-------------------|-----------------|
| 1. Bakenang Songma | 2. Bakenang Nalsa | 3. Chambildam   |
| 4. Konapara        | 5. Sonachiring    | 6. Chichotcheng |
| 7. Bolongpang      | 8. Nokwal Ading   |                 |

### 1.2 Micro-watershed Information:

The micro-watershed code is Rangenang 3CIA 5bg, Chichotcheng 3BIB3d2f as codified by the North East Space Application Centre (NESAC). The total area of the micro-watershed is 1366Ha., with 1000 hectares to be treated under the Integrated Watershed Management Programme (IWMP).

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

The micro-watershed Rangenang & Chichotcheng Watershed falls under the High Priority category as per the prioritization of watersheds by the North East Space Application Centre (NESAC). There are 8 villages with kutcha road connectivity. The farmers are all marginal and 282 households are below the poverty line, which is 405 of the total households. Jhum cultivation is practiced by most of the inhabitants of these villages on the slopes.

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

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

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

- i. MGNREGS – Convergence sheet. Enclosed
- ii.

## **CHAPTER II**

### **BASIC INFORMATION OF THE PROJECT AREA**

#### **2.1 Location:**

The Project area is located within the area of Nokma known as Akhing lang under Resubelpara C&RD Block of Resubelpara Civil Sub Division, East Garo Hills District. It is situated at a distance of about 27 km from Resubelpara Civil Sub Division Head Quarter and about 102 km from Williamnagar the District Headquarter. The geographical location is between 25°50 to 25°53',45'' Longitude and 90°27' -15'' – 90°-30' Latitude. There are 8 (eight) villages within the Watershed which are as follows –

- |                    |                   |                 |
|--------------------|-------------------|-----------------|
| 1. Bakenang Songma | 2. Bakenang Nalsa | 3. Chambildam   |
| 4. Konapara        | 5. Sonachiring    | 6. Chichotcheng |
| 7. Bolongpang      | 8. Nokwal Ading   |                 |

At present, these 8 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 70m to a high of 340m above mean sea level. In the lower reaches (valley lands) the slope ranges from 5-48 however, in the middle and upper reaches it is greater than 48% and can reach up to 54%

Table 2.1: Physiographic details

Elevation (metres)	Slope Range (%)	Order of watershed Sub/Micro-watershed	Major streams	Topography
70-340 m	5-48%	Micro Watershed	Rangenang & Chichotcheng	Strongly to moderate sloping

**2.3 Drainage:** The major stream draining the micro-watershed is the Rangenang & Chichotcheng which is a are flowing in a Eastern direction. The slopes of the micro-watershed are dissected by numerous small tributaries flowing to the Rangenang & Chichotcheng 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 –IV	Water erosion:				
				a	Sheet	1000	NA	NA
				b	Rill		NA	NA
				c	Gully		NA	NA
				Sub total		1000		NA
				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 3350 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 100-300m	1000Ha	East Garo Hills	East Garo Hills – IWMP – IV	Loam, Clay Loam	1366 Ha	3355mm	Paddy	85
									Ginger	10
									Oranges	-
									Bay leaf	-
									Broom stick	-
									Black pepper	-
									Litchi	-
									Banana	-
									Pineapple	-
								<b>Total</b>		<b>95</b>

**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 2-3 years. The principal agricultural crops grown of the jhum fields are potato, sweet potato, millet, maize, yam and vegetables. Fruit crops are well suited in the lower reaches which include *Prunus nepalensis*, *Elaegnus latifolia*, orange, pineapple, jackfruit, litchi. The slopes of the Rangenang Chichotcheng are also very suitable for betel nut, betel leaf, black pepper, broomstick, which contribute to the income of the people.

**Table 2.4: Crop yield and production**

Crops	Area (ha)	Average Yield (Qtl) per ha.	Total Production (Qtl.)
Paddy	85	19.36	1645.6
Millet	-	-	-
Soyabean	-	-	-
Yam	-	-	-
Ginger	10	56	1120
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 405 with a total population of 1811, of which 910 are male and 901 are female. The detail of the household in each of the villages in the watershed project is as follows:

Rangenang Watershed

- 1. Bakenang Songma = 32 Nos.
- 2. Bakenang Nalsa = 31 Nos.
- 3. Chambildam = 97 Nos.
- 4. Konapara = 74Nos.
- 5. Sonachiring = 50 Nos.

Chichotcheng Watershed

- 1.Bolongpang = 45 Nos.
  - 2. Chichotcheng = 32 Nos.
  - 3. Nokwal Ading = 44 Nos.
- 405Nos.

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 Bajengdoba.
- 2.1.2 *School:* there are only 3 L.P Schools within the Project Area run either by the Mission or by the Government.
- 2.1.3 *Electricity :* Connections have been provided but some villages are yet to have electricity.
- 2.1.4 *Health :* No Community Health Centre at in the Watershed area and the local population have to either depends on facilities available at P.H.C. Bajengdoba.
- 2.1.5 *Water Supply :* Entire population depends on natural stream and ringwell .
- 2.1.6 *Market :* There is a weekly market held once in a week at Bajengdoba. However, the main market where the people sell their produce is at Bajengdoba Bazar..

**Table 2.5: Infrastructure Status.**

1	2	3		4			
Name of District	Name of Project	Parameters:		Status			
East Garo Hills	East Garo Hills – IWMP-IV	(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	5 nos. electrified and 2 without electricity			
		(iii)	No. of households without access to drinking water	40 nos.			
		(iv)	No. of educational institutions: Primary (P)/ Secondary (S)/ Higher Secondary (HS)/ Vocational institution (VI)	(P)	(S)	(HS)	(VI)
				3 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	2 No.			
		(xiv)	Any other facilities with no. of villages (please specify)	Nil			

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

**Table 2.6: Existing livestock population**

Type of Animal	Population
Piggery	178
Poultry	1699
Cattle farm	374
Goatery	27
Total	2278

**2.10 Land ownership:** There are primarily single types of land holding system, namely private lands (private i.e. individually owned land) and community lands (Aking 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- IV	(i) Large					
		(ii) Small					
		(iii) Marginal	217	152		95	95
		(iv) Landless	18	18			
		Sub - Total	235	170		95	95

**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-IV	(i) Wasteland/ degraded land	3			119				474
		(ii) Pastures								
		(iii) Private Agriculture land	120				526			
		(iv) Village woodlot								
		(v) Forest ( village)				80				
		(vi) Village Ponds/ Tanks	2			5				
		(vii) Community Buildings		15						
		(viii) Weekly Markets								
		(ix) Permanent Markets								
		(x) Temples/ Places of worship				15				
		(xi) Others (Pl. specify)				8				
		<b>Total</b>					<b>526</b>			<b>474</b>

**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	=	31	Ha
b) Water bodies-River/Stream-Perennial	=	56	Ha
c) Forest Blank	=	119	Ha
d) Forest Scrub	=	98	Ha
e) Natural Grass	=	38	Ha
f) Agricultural land-crop land-kharif crop	=	289	Ha.
g) Tree clad Area-close	=	140	Ha.
h) Tree clad Area-open	=	595	Ha.
Total	=	1366	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.	<b>Planning</b>	
	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 <sup>#</sup>	No
	Integrated coupled analyzer/ near infrared visible spectroscopy/ medium spectroscopy for high speed soil nutrient analysis	No
	Normalized difference vegetation index (NDVI) <sup>#</sup>	Yes
	Weather Stations	No
<b>B.</b>	<b>Inputs</b>	
	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

**3.2 Project Implementing Agency:**

The PIA is the Simsanggre 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- IV	(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) Rangenang and Chichotcheng**

The Watershed Committee of Rangenang and Chichotcheng the was constituted with the active involvement of the villagers with strong support of the Traditional Institutions (Village Nokma/Council).

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- IV	Rangenang		President	M	-	ST									VIII	
				Secretary	M	-	ST										
				Member	9 M	-	ST				1	1			5		
				Member	4 F	-	ST				2		2		1		
				Member													
East Garo Hills	East Garo Hills – IWMP- IV	Chichotcheng		President	M	-	ST									IX	
				Secretary	M	-	ST										
				Member	6 M	-	ST				1				3	VIII	
				Member	3 F	-	ST				2				1	VIII	
				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 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-IV	-	-			(i) Landless	5	3	8				7	3	10
						(ii) SF	32	20	52				4	3	7
						(iii) MF	34	30	64				26	21	47
						(iv) LF									

iii) User Group

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

Table 3.4: User Group Details

1	2	3				4				5			6		
Names of 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-IV	165	45		210	(i)Landless	13	10	23				95	55	150
						(ii) SF	37	25	62				30	26	56
						(iii) MF	96	74	170				47	34	81
						(iv) LF									
Total		Nil	Nil	Nil	Nil				Nil			Nil			Nil

# **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 -IV	6.0Lakhs	Repairing of Community Hall. Improvement of Playground. Improvement of C.C. Core wall. Repairing of School Building. Construction of Ringwell. Improvement of Farm Pond. Repairing of H.P. Culvert. Improvement of Link road.	6.0	5.4	0.6	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-IV	1 No W/C	6 nos.	NIL .	Participatory Rural Appraisals	N.A	Done	Done	Done	Done	Institution & Capacity Building, DPR.	3.0

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											
Sl. No	Name of States	Name of Districts	Name of Projects	Type of structures	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 <sup>3</sup> )	Estimated cost
1	Meghalaya	East Garo Hills	East Garo Hills – IWMP-IV	(i) Tank	-	-	-												
				(ii) Pond	-	-	-					31	207.63		17.35244	31	207.63		17.35244
				(iii) Lake	-	-	-												
				(iv) Check Dam	-	-	-					8	118		19.2224	8	118		19.2224
				(v) Percolation Tank	-	-	-												
				(vi) Channel	-	-	-												
				(vii) Any others (please specify)								10	71		9.1958	10	71		9.1958
			Total									49	396.63		45.77064	49	396.63		45.77064

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
S. No.	Names of States	Names of Districts	Names of projects	Type of structures	Pre-project		Proposed target								Achievement due to project								Change in irrigated area (Col. 8-6) (ha)
					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-IV	(i)Open wells		Nil		Nil		Nil		Nil			Nil		Nil		Nil				
(ii)Bore wells																							
(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						
		Structure/ activity proposed				No. of UGs involved	Estimate d Cost	Amount of WDF to be collected (Rs.)
		Sl. No.	Type	No.#	Treatment (ha)			
East Garo Hills	East Garo Hills – IWMP –IV	1	Water Harvested					
		2	Dam					
		3	Protection Wall					

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	Water Harvested								
2	Dam								
3	Protection Wall								

**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 -IV	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
District	Names of projects	Ridge area treatment		Drainage line treatment		Nursery raising		Land development		Improvement existing paddy files		Improvement existing paddy files		Veterinary services		Fishery development		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)	(a)	(b)	
EGH	EGH-IWMP-IV	-	-	397.49 ha.	45.77064 lakh	25200 nos.	6.3 lakh	6 ha.	1.2 lakh	378 ha.	16.254 lakh	152.51 ha.	5.47536 lakh	-	-	-	-	-	-	Livelihood, Production System	15.0 19.5	109.5

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) Pri- vate	(ii) Com- munity	(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 comple- tion	Actual month & year of completion (mm/yyyy)
											M	W	O	T			M	W	O	T		
East Garo Hills	East Garo Hills – IWMP - IV	Staggered trenching																				
		Loose boulder Contour bund	R	-	-	Pri- vate	-	-	Benefi- ciary						2013-14		-	-	-	-	-	-
		Graded bunding																				
		Bench terracing			L				-do-													
		Earthern Embankment		D			Com- munity		-do-													
		Masonry stop dams																				
		Gully plug																				
		Gabion structures																				
		Underground dykes																				
		Field bunds																				
		Any others (pl. specify)																				
		R.C.C. & C.C. Dam		D			-do-		-do-													
		Water Harvesting		D			-do-		-do-													
		Conservation Farm Pond		D		-do-			-do-													
		Dugout Pond		D		-do-			-do-													
		Boulder Sausage		D				Com- munity	-do-			4.	0		-do-							
		C.C. Protection wall		D				-do-	-do-		1.	2	3	5	-do-							
		Improvement Existing Paddy field			4	-do-	-	-	-do-		2	2.	3	6	-do-							

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.)		Mandays generated					No. of beneficiaries				
		Pre-project	Post project	Pre-project	Post project	Pre-Project Rs. in lake	Post project Rs. in lake	SC	ST	Others (Men)	Women	Total	SC	ST	Others	Women	Total
	396.63			15Qlt	30Qlt	0.15	0.3		13500		1350	14350		405			405

#### 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) Draina ge line (D)	(iii) Land dev. (L)	(i) Priv ate	(ii) Comm unity	(iii) Othe rs (pl. spec ify)	(i) UG (ii)SHG (iii) Others (pl. specify)	Area (ha)	No. of plants	Estimate d cost (Rs. in lakh)	Expecte d month & year of comple- tion (mm/ yyyy)	Area (ha)	No. of plants	Expendi- ture incurred (Rs. in lakh)	Actual month & year of comple-tion (mm/ yyyy)
East Garo Hills	EGH-IWMP-IV	Afforestation															
		Regeneration				✓								-	-	-	-
		Agro-forestry					✓							-	-	-	-
		Fuel wood															
		Fodder															
		Agro- Horticulture				✓								-	-	-	-
		Pasture dev.															
		Nursery raising															
		Others (Rubber)				✓								-	-	-	-
		Imp. Of degraded Forest	R				Comm unity			83.51		5.47136	5 yrs				

# 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.)		Mandays generated					No. of beneficiaries				
	Pre- project	Post project	Pre- project	Post project	SC	S T	Others	Women	Total	SC	ST	Others	Women	Total



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	Target		Achievement	
			(i) Private	(ii) Community	(iii) Others (landless)	(i) UG (ii) SHG (iii) Others (pl. specify)	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-IV	Tailoring – 10 units	55		9		4.4	5 yrs		
		Carpentry/ Agri-implements/ Basket making etc.	25				1.25	5 yrs		
		Culture								
		Backyard poultry								
		Stabilized Mud Block								
		Piggery Farming								
		Vermi-Composting								
		Kitchen gardening	198		9	-do-	495000	5 yrs		
		Fruit processing								
		Others (Rural godown,								
		Cableway taxiing								
		Canes & handicrafts.								

(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

@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

4.3 Consolidation and withdrawal phase

Details of activities in the CPRs in the project areas:

1	2	3	4	5	6				7						
Names of the Districts	Names of projects	Name(s) of the villages	CPR particulars	Activity proposed	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			WDF collected (Rs.)
												SC	ST	F	
East Garo Hills	EGH-IWMP-IV	Konapara													
		Chambildam													
		Bakenang Songma													
		Sonachi Chiring													
		Bakenang Nalsa													
		Chichotcheng													
		Nokwal adding													
		Bolongpang													

CHAPTER V

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

Name of District : East Garo Hills

No. of Villages - 3 Nos.

Name of C & R.D. Block : RESUBELPARA

Project Area - 500 Ha.

Sl. No	Activities	Ha./ Nos.	Co-ordinates	I <sup>st</sup> Year				Co-ordinates	II <sup>nd</sup> Year				Co-ordinates	III <sup>rd</sup> Year				Co-ordinates	IV <sup>th</sup> Year				V <sup>th</sup> 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	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	30	31		
I	MANAGEMENT COST:																															
A.	Administrative cost:																															
i.	Honourarium of WDT Members @ Rs. 8000/ month – 1 no.									0.48					0.48					0.48								1.44				
ii.	Hon <sup>rm</sup> of Watershed Volunteers @ Rs. 2500/- month – 3 nos.														0.3													0.3				
iii.	Hon <sup>rm</sup> WCO's @ Rs.1000/month x 36 months														0.18													0.18				
iv.	Hon <sup>rm</sup> WCM @ Rs.200 x 25 Nos. members/ month for 38 months									0.3					0.3					0.3								0.9				
v	Hon <sup>rm</sup> Office assistance @Rs.5000/month x 36														0.9													0.9				
vi	Hon <sup>rm</sup> Chartered Accountant									0.1					0.1					0.3								0.5				
vii	TA/DA of Field Asstt. @ 5000/ month.														0.3													0.3				

viii	Hiring charges of office building @ 1500/-									0.09					0.09					0.09								0.27		
ix.	Hiring charges of vehicle @ 5000/month.									0.1					0.25					0.45								0.8		
x	Office expenses, POL, Stationeries, printing of SHG's books, pamphlets, tea, snacks etc, cost of camera.									0.43					0.85					0.63								1.91		
	Total of A:									1.5					3.75					2.25								7.5		
	PREPARATORY PHASE :																													
B.	Entry Point Activities:																													
	CHICHOTCHENG																													
ii.	Improvement of Conservation Farm pond with C.C.Core wall.	No.	N25°51.460' E90°28.082' & N25°52.031' E90°28.711'	2	1.1																						2	1.1		
iii.	Improvement of HP Culvert	No.	N25°51.668' E90°28.082'	1	0.7																						1	0.7		
iv.	Improvement of Link road	Km.	N25°52.131' E90°28.107'			1 km.	0.3																							0.3
v	Improvement of Community hall	No.	N25°51.598' E90°28.104'	1	0.9																						1	0.9		
	Total of B:			4	2.7		0.3																				4	2.7		0.3











iii	BOLONGPANG																												
	(a) C.C. Dam with Channel.											N25°50.57' E90°28.22'	1 no.	3.9507													3.951		
													13														13		
	(b) Conservation Pond with C.C. core wall.											N25°50.58' E90°28.29'	1 no.	2.5													2.5		
													15														15		
	(c) Dug out Pond.							N25°50.40' E90°28.30' & N25°50.45' E90°28.21'	2 nos.	0.6						N25°50.45' E90°28.52' & N25°50.41' E90°28.42'	3 nos.	0.9										1.5	
								20								10										30			
	Total of C :							62.74	4.414				98	16.45				52	2.93							213	23.79		
	Total of A + B + C							96.24	5.625				311.76	26.25				92	5.63							500	37.5		
D	Livelihood Activities for landless persons:																												
	CHICHOTCHENG WATERSHED																												
ii	CHICHOTCHENG																												
	Tailoring @ Rs. 8,000/-											8	0.64													8	0.64		
	Carpentry/ Agri-Implements/ Basket Making etc @ Rs. 5000/-																	2	0.1								2	0.1	
	Hollow Block making/ Stabilized Mud block making Rs. 5000/-																8	0.4	12	0.6						8	0.4	12	0.6
	Kitchen Gardening @ Rs. 2500/-								10	0.25			4	0.1				5	0.125	10	0.25						19	0.475	10

iii	NOKWAL ADING																														
	Tailoring @ Rs. 8,000/-													8	0.64													8	0.64		
	Carpentry/ Agri- Implements/ Basket Making etc @ Rs. 5000/-																		1	0.05									1	0.05	
	Hollow Block making/ Stabilized Mud block making Rs. 5000/-																10	0.5	8	0.4							10	0.5	8	0.4	
	Kitchen Gardening @ Rs. 2500/-									10	0.25				3	0.075				5	0.125	4	0.1						18	0.45	4
iv	BOLONGPANG																														
	Tailoring @ Rs. 8,000/-													9	0.72													9	0.72		
	Carpentry/ Agri- Implements/ Basket Making etc @ Rs. 5000/-																			2	0.1								2	0.1	
	Hollow Block making/ Stabilized Mud block making Rs. 5000/-																20	1	8	0.4							20	1	8	0.4	
	Kitchen Gardening @ Rs. 2500/-									10	0.25				3	0.075				4	0.1	10	0.25						17	0.425	10
	Total of D:								30	0.75				35	2.25				52	2.25	57	2.3						117	5.25	57	2.25
E.	Production System and Micro Enterprises (SHG's):																														
	CHICHOTCHENG WATERSHED																														
i	CHICHOTCHENG																														
	Poultry/Piggery @ Rs. 30,000/ unit															4	1.2			3	0.9							3	0.9	4	1.2
	Ginger/Turmaric									1	0.15					2	0.3			1	0.15							2	0.3	2	0.3
	Mud Block Making																		2	0.6								2	0.6		





Convergence of EGH IWMP Project -IV with NREGS  
CHICHOTCHENG WATERSHED, RESUBELPARA C.& R.D. BLOCK  
Rubber Plantation Norms for NREGS

Location & Activities	2nd year of IWMP				3rd Year of IWMP		1st Year of NREGS		4th Year of IWMP		2nd Year of NREGS		5th Year of IWMP		3rd 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.
Chichotcheng																				
Creation of Rubber Nusery (Polybag) @Rs.25/- per plant.					3150 nos.	0.7875			2250 nos.	0.5625							4500 nos.	1.35		
					7 ha				5 ha.								12 ha.			
Preliminary 1st year plantation @Rs.15760/- per ha. (Material Component)							7 ha.	1.1032			5 ha.	0.788							12 ha.	1.8912
Preliminary & 1st Year Wage Component @Rs.51100/-								3.577				2.555								6.132
2nd Year Maintenace @Rs.1000/- per ha.											(M)	0.07			(M)	0.05			(M)	0.12
2nd Year Wage Component. @Rs.35910/-											(M)	2.5137			(M)	1.7955			(M)	4.3092
Nokwal Ading																				
Creation of Rubber Nusery (Polybag) @Rs.25/- per plant.					2700 nos.	0.675			2250 nos.	0.5625							4950	1.2375		
					6 ha.				5 ha.								11 ha.			
Preliminary 1st year plantation @Rs.15760/- per ha. (Material Component)							6 ha.	0.9456			5 ha.	0.788							11 ha.	1.7336

PROJECT PHASING & BUDGETING

Preliminary & 1st Year Wage Component @Rs.51100/-								3.066				2.555								5.621
2nd Year Maintenace @Rs.1000/- per ha.										(M)	0.07			(M)	0.05			(M)	0.12	
2nd Year Wage Component. @Rs.35910/-										(M)	2.5137			(M)	1.7955			(M)	4.3092	
Bolongpang																				
Creation of Rubber Nusery (Polybag) @Rs.25/- per plant.					3600 nos.	0.9			2250 nos.	0.5625							5850 nos.	1.4625		
					8 ha.				5 ha.								13 ha.			
Preliminary 1st year plantation @Rs.15760/- per ha. (Material Component)							8 ha.	1.2608			5 ha.	0.788							13 ha.	2.0488
Preliminary & 1st Year Wage Component @Rs.51100/-								4.088				2.555								6.643
2nd Year Maintenace @Rs.1000/- per ha.										(M)	0.07			(M)	0.05			(M)	0.12	
2nd Year Wage Component. @Rs.35910/-										(M)	2.5137			(M)	1.7955			(M)	4.3092	
TOTAL																	15300 Nos.			
						2.3625		14.0406		1.6875		17.7801				5.5365	36 ha.	4.05	36 ha.	37.3572

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

Name of District : East Garo Hills

No. of Villages - 5 Nos.

Name of C & R.D. Block : RESUBELPARA

Project Area - 500 Ha.

Sl. No	Activities	Ha./ No.	Co-ordinates	I <sup>st</sup> Year				Co-ordinates	II <sup>nd</sup> Year				Co-ordinates	III <sup>rd</sup> Year				Co-ordinates	IV <sup>th</sup> Year				V <sup>th</sup> 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	30	31
I	MANAGEMENT COST:																													
A.	Administrative cost:																													
i.	Honourarium of WDT Members @ Rs. 8000/ month – 1 no.									0.48					0.48					0.48								1.44		
ii.	Hon <sup>rm</sup> of Watershed Volunteers @ Rs. 2500/- month – 3 nos.														0.3													0.3		
iii.	Hon <sup>rm</sup> WCO's @ Rs.1000/month x 36 months														0.18													0.18		
iv.	Hon <sup>rm</sup> WCM @ Rs.200 x 25 Nos. members/ month for 38 months									0.3					0.3					0.3								0.9		
v	Hon <sup>rm</sup> Office assistance @Rs.5000/month x 36														0.9													0.9		
vi	Hon <sup>rm</sup> Chartered Accountant									0.1					0.1					0.3								0.5		
vii	TA/DA of Field Asstt. @ 5000/ month.														0.3													0.3		
viii	Hiring charges of office building @ 1500/-									0.09					0.09					0.09								0.27		

ix.	Hiring charges of vehicle @ 5000/month.									0.1					0.25					0.45									0.8		
x	Office expenses, POL, Stationeries, printing of SHG's books, pamphlets, tea, snacks etc, cost of camera.									0.43					0.85					0.63									1.91		
	Total of A:									1.5					3.75					2.25									7.5		
	PREPARATORY PHASE :																														
B.	Entry Point Activities:																														
	RANGENANG																														
i.	Repairing of Community Hall	No.	N25°52.329' E90°29.319' & N25°52.704' E90°29.389'	2	1.15																						2	1.15			
ii.	Improvement of Playground.	No.	N25°52.962' E90°29.962'	1	0.45																						1	0.45			
iii	Improvement of C.C.Core wall	No.	N25°52.084' E90°29.994'	1	0.55																						1	0.55			
iv	Repairing of School Building	No.	N25°52.710' E90°29.975'	1	0.55																						1	0.55			
v	Construction of Ringwell	No.	N25°52.954' E90°29.260'			1	0.3																							1	0.3
	Total of B:			5	2.7	1	0.3								1												5	2.7	1	0.3	



c	Institution & Capacity Building																													
ii.	Awareness Campaign & Capacity building	Nos.		1	0.125					1	0.25		1	0.125												2	0.25	1	0.25	
iii.	Exposure visits – off. Campus	Nos.		1	0.075					1	0.15		1	0.075				1	0.25							3	0.4	1	0.15	
iv.	Capacity building of SHG’s/ UG’s.	Nos.		1	0.25					2	0.5		2	0.25												3	0.5	2	0.5	
v.	Capacity building of WC Members.	Nos.		1	0.15					2	0.3		2	0.15				2	0.25							5	0.55	2	0.3	
vi	Capacity of WDT/WV	Nos.		1	0.15					2	0.3		2	0.15				2	0.25							5	0.55	2	0.3	
	Total of C:	Nos.		5	0.75					8	1.5		8	0.75				5	0.75							18	2.25	8	1.5	
D.	Detailed Project Report:																													
i.	Cost of Resources Inventories works				0.1																					0.1				
ii.	Cost of PRA Exercises				0.25																					0.25				
iii.	Cost of Land use Survey works				0.15																					0.15				
iv.	Cost of formulating				0.25																					0.25				
	Total of D:				0.75																					0.75				
E.	Monitoring & Evaluation:																									0				
i.	Cost of Honorarium to evaluator.								0.15				0.375					0.225								0.75				
ii.	Cost of printing report etc.								0.225				0.375					0.15								0.75				
	Total of E:								0.375				0.75					0.375								1.5				
	Total of I (A to E)				4.2	1	0.3			1.875		1.5		5.25				3.375								14.7	1	1.8		



[illegible]









iv	BAKENANG NALSA																													
	Tailoring @ Rs. 8,000/-											10	0.8														10	0.8		
	Carpentry/ Agri- Implements/ Basket Making etc @ Rs. 5000/-																2	0.1	2	0.1							2	0.1	2	0.1
	Hollow Block making/ Stabilized Mud block making Rs. 20,000/-																													
	Kitchen Gardening @ Rs. 2500/-								4	0.1			6	0.15				6	0.15	6	0.15						16	0.4	6	0.15
	Total of D:							19	0.75			46	2.25				45	2.25	45	2.3						110	5.25	45	2.3	
E.	Production System and Micro Enterprises (SHG's):																													
	RANGENANG WATERSHED																													
i	KONAPARA																													
	Poultry/pigery @ Rs. 30000/- unit							1unit	0.3					2 unit	0.6		1unit	0.3									0.6		0.6	
	Ginger @Rs.15,000/-																1unit	0.15									0.15			
	Mud Block Making @Rs.30000/-													1unit	0.3		2 unit	0.6									0.6		0.3	







**Convergence of EGH IWMP Project -IV with NREGS**  
**RANGENANG WATERSHED, RESUBELPARA C.& R.D. BLOCK**  
**Rubber Plantation Norms for NREGS**

Location & Activities	2nd year of IWMP				3rd Year of IWMP		1st Year of NREGS		4th Year of IWMP		2nd Year of NREGS		5th Year of IWMP		3rd 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.
<b>Konapara</b>																				
Creation of Rubber Nusery (Polybag) @Rs.25/- per plant.					2250 nos	0.5625			1350 nos.	0.3375							3600 nos.	0.9		
					5 ha				3 ha.								8 ha.			
Preliminary 1st year plantation @Rs.15760/- per ha. (Material Component)							5 ha	0.788			3 ha.	0.4728							8 ha.	1.2608
Preliminary & 1st Year Wage Component @Rs.51100/-								2.555				1.533								4.088
2nd Year Maintenace @Rs.1000/- per ha.											(M)	0.05			(M)	0.03			(M)	0.08
2nd Year Wage Component. @Rs.35910/-											(M)	1.7955			(M)	1.0773				2.8728
<b>Chambildam</b>																				
Creation of Rubber Nusery (Polybag) @Rs.25/- per plant.					2700 nos.	0.675			2250 nos	0.5625							4950 nos.	1.2375		
					6 ha.				5 ha								11 ha.			
Preliminary 1st year plantation @Rs.15760/- per ha. (Material Component)							6 ha.	0.9456			5 ha.	0.788							11 ha.	1.7336
Preliminary & 1st Year Wage Component @Rs.51100/-								3.066				2.555								5.621

2nd Year Maintenace @Rs.1000/- per ha.											(M)	0.06			(M)	0.05			(M)	0.11
2nd Year Wage Component. @Rs.35910/-											(M)	2.1546			(M)	1.7955				3.9501
<b>Bakenang Songma</b>																				
Creation of Rubber Nusery (Polybag) @Rs.25/- per plant.					2250 nos.	0.5625			1800 nos.	0.45							4050 nos.	1.0125		
					5 ha				4 ha.								9 ha.			
Preliminary 1st year plantation @Rs.15760/- per ha. (Material Component)							5 ha	0.788			4 ha.	0.6304							9 ha.	1.4184
Preliminary & 1st Year Wage Component @Rs.51100/-								2.555				2.044								4.599
2nd Year Maintenace @Rs.1000/- per ha.											(M)	0.05			(M)	0.04			(M)	0.09
2nd Year Wage Component. @Rs.35910/-											(M)	1.7955			(M)	1.4364				3.2319
<b>Sonachiring</b>																				
Creation of Rubber Nusery (Polybag) @Rs.25/- per plant.					2250 nos.	0.5625			1350 nos.	0.3375							3600 nos.	0.9		
					5 ha				3 ha.								8 ha.			
Preliminary 1st year plantation @Rs.15760/- per ha. (Material Component)							5 ha	0.788			3 ha.	0.4728							8 ha.	1.2608
Preliminary & 1st Year Wage Component @Rs.51100/-								2.555				1.533								4.088
2nd Year Maintenace @Rs.1000/- per ha.											(M)	0.05			(M)	0.03			(M)	0.08
2nd Year Wage Component. @Rs.35910/-											(M)	1.7955			(M)	1.0773			(M)	2.8728
<b>TOTAL</b>																	16200 Nos.			
						2.3625		14.0406				17.7801				5.5365	36 ha.	4.05	36 ha.	37.3572

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 Distric ts	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												
										Cultivate d rainfed area	Cultivated irrigated area	Uncultivated wasteland		Pvt. Agri. Land	Forest land	Com m unity land	Others (pl. specify )	Total area (ha)
												a) Temporary fallow	b) Per manent					
1	Meghalaya	East Garo Hills	East Garo Hills – IWMP- IV		2010-2011	2010-2015	1000 Ha	150.0	Rangenang 3CIA5B2g Chichotchen g 3BIB3d2f	526	-	474	-	-	-	-	-	1000 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- IV	135.00	15.00	NREGS	95.4684									

**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- IV					Rangenang & Chichotche ng Watershed Committee	SBI Williamnagar	Yet to form.	Saving	PIA, Chairman Watershed Committee, Secretary Watershed Committee

**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 <sup>@</sup>	Level at which decision for convergence was taken <sup>\$</sup>
1	East Garo Hills	East Garo Hills – IWMP-IV	* Community Rural Development Department NREGS	95.4684	1. Rubber Plantation – 92 ha.	-	Block Level & District Level
2				N.A.	-	-	

**Note:**



**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-IV										

\* 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 <sup>#</sup>	Area(s) of specialization <sup>\$</sup>	Accreditation details	Performance				
								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)

<sup>\$</sup> 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	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 (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)\***

	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
	<b>Activity</b>	<b>Executing agency</b>	<b>Estimated expenditure (Rs.)</b>	<b>Expenditure incurred (Rs.)</b>	<b>Outcome (may quantity, wherever possible)</b>
1.	Awareness	S&WC (T) Division	1.0	.25	
2.	Exposure Visits	S&WC (T) Division	1.1	.15	
3.	Capacity Building	S&WC (T) Division	5.4	1.1	

# CHAPTER VII

## EXPECTED OUTCOME

Table 7.1 Employment related outcomes:

SI 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.	Konapara		48600		24100	48600		405			405					
2.	Chambildam															
3.	Bakenang songma															
4.	Bakenang Nalsa															
5.	Sonachiring															
6.	Chichotcheng															
7.	Bolongpang															
8.	Nokwal A.ding															
	TOTAL : 8		48600		24100	48600		405			405					

**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)	

\* 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	
East Garo Hills	East Garo Hills – IWMP -IV	Konapara	Community Forest	FW	Live long					
		Chambildam	-do-	-do-	F					
		Bakenang songma	-do-	-do-	G					
		Bakenang Nalsa	-do-	-do-	MFP		405		405	
		Sonachiring	-do-	-do-	P					
		Chichotcheng	-do-	-do-	Rd					
		Bolongpang	-do-	-do-	S/M					
		Nokwal A.ding	-do-	-do-	T Wd					

\* 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 -IV	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-IV	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 <sup>\$</sup>	through water conserving agronomic practices <sup>#</sup>	Any other (pl specify)	Total
East Garo Hills	East Garo Hills – IWMP -IV				-	-
			‘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.

<sup>\$</sup> Sprinkler, Drip, PVC pipe, etc.

<sup>#</sup> 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 -IV	Potato	-																	
		Millet	-																	
		Soyabean	-																	
		Paddy	-	85		19.26		1637.1							85		19.36		1637.1	
		Ginger	-	10		60		600							10		60		600	
		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	2	3	4	5	6						7						8					
SI No.	Names of States	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.
	Meghalaya	East Garo Hills	East Garo Hills – IWMP-IV	Betel leaf	-	-	-	-	-	-												-
				Black Pepper	-	-	-	-	-	-												-
			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 7.6.3 Details of Zaid crop area and yield in the project areas of the Country: State-wise:

1	2	3	4	5	6						7						8					
Sl No.	Names of States	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.
	Meghalaya	East Garo Hills	East Garo Hills – IWMP-IV	Betel leaf	-	-	-	-	-	-												-
			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 -IV	5 yrs	NA	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-IV	5 yrs	Actual Base line Survey	2006-07	751 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 7.6.6 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-IV	5 yrs				200 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-IV	5 yrs				100 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 7.7 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-IV	Milch- animals	nil	nil	nil	nil	nil	nil	nil	nil	nil	
		Piggery	17 units		1.02	87units.		5.22	174		10.44	
		Poultry	29units.		0.1015	429		1.5015	858		3.003	
		Apiculture in unit	518		2.072	1036		8.288	3108		12.432	
	Total for all projects		564		3.1935	1552		15.0095	4140		25.875	
Total for all Districts												

\* 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	Benefi-ciary	Others (pl. specify)	Total		SC	ST	Others	Women	Total	SC	ST	Others	Women	Total
East Garo Hills	East Garo Hills – IWMP -IV	Tailoring																
		Basket - making	8000	6000	2000		8000	8000		75		75	75		75		75	75
		Stabilized Mud -making	20000	15000	5000		20000	20000		30		30	30		30		30	30
		Vermi - compos -ting																
		Kitchen - gardening	2500	2000	500		2500	2500		120		120	120		120		120	120

(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 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 -IV	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-IV	<b>(A) Backward linkages</b>			
		(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)			
		<b>(A) Forward linkages</b>			
		(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\***

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
<b>District</b>	<b>Name of project</b>	<b>Name of WC</b>	<b>Name of structure/ activity</b>	<b>Estimated cost (Rs.)</b>	<b>Expected quantifiable benefits (Rs.)</b>	<b>Expenditure incurred (Rs.)</b>	<b>Actual quantifiable benefit (Rs.)</b>	<b>Benefit: Cost ratio<sup>#</sup></b>	<b>IRR</b>
East Garo Hills	East Garo Hills – IWMP-IV	East Garo Hills – IWMP-IV Watershed Committee	N. A.	117.0 Lakh	N. A.	‘Nil’	‘Nil’	1:1.6	N. A.

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

<sup>#</sup> B:C ratio more than 1 – cost effective  
less than 1 – Not cost effective

