DETAILED PROJECT REPORT

MIDDLE MANDA MICRO WATERSHED

EAST GARO HILLS INTEGRATED WATERSHED MANAGEMENT PROGRAMME

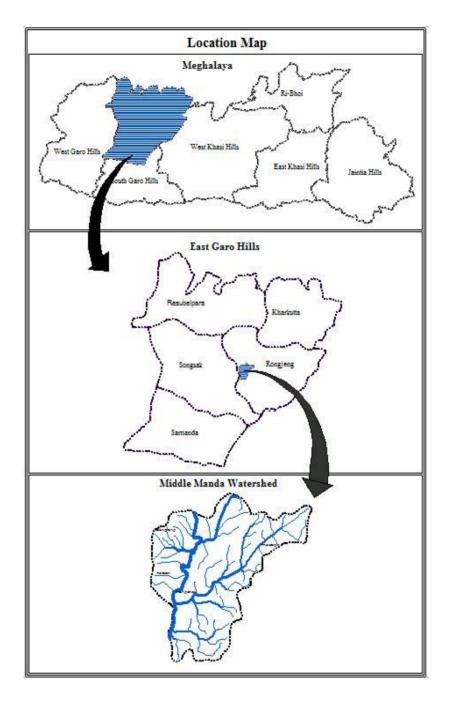
IWMP –III

2010 - 2011

SONGSAK C.& R.D. BLOCK

EAST GARO HILLS DISTRICT

MEGHALAYA



SUMMARY

Name of the Sate	:	Meghalaya
Name of the District	:	East Garo Hills District
Name of the C&RD Block	:	Songsak
Name of the Villages	:	Pakregre Chijong Apal, Rongchek Songgitcham, Gongrang & Tarasin.
Name of the Project	:	East Garo Hills – IWMP – III
Total Geographical Area	:	1376 На
Total Treatment Area	:	1000 На
Total Project Cost	:	150 lakhs
Project Duration	:	5 Years
Project Implementing Agency	:	Simsanggre Soil & Water Conservation Division, Williamnagar.

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CHAPTER I

INTRODUCTION AND BACKGROUND

1.1 Project Background:

The East Garo Hills IWMP- III project is located in Songsak C&RD Block, East Garo Hills District of Meghalaya. Consisting of a single micro-watershed, the project area is drained by the Manda River and its tributaries flowing in a north to south direction. The total area is 1376 Ha. with 1000 ha to be treated under the Integrated Watershed Management Programme (IWMP).

The Project area is located at a distance of about 15 km from Songsak Block Head Quarter and about 78 km from Williamnagar the District Headquarter. A total of 4(four) villages are covered under the project. These are –

- 1. Pakregre Chijong Apal
- 2. Rongchek songgitcham
- 3. Gongrang
- 4. Tarasin

1.2 Micro-watershed Information:

The micro-watershed code is 3B1B5a6h, 3CIA5a2g as codified by the North East Space Application Centre (NESAC). The total area of the micro-watershed is 1376 Ha. with 1000 hectares to be treated under the Integrated Watershed Management Programme (IWMP).

1.3 Need and Scope for Watershed Development:

The micro-watershed 3B1B5a6h, 3CIA5a2g falls under the High Priority category as per the prioritization of watersheds by the North East Space Application Centre (NESAC). Located on the slopes of the East Garo Hills Plateau the four villages have no road connectivity but under the construction. The farmers are all small and 11 households are below the poverty line, which is 4.62% 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

CHAPTER II BASIC INFORMATION OF THE PROJECT AREA

2.1 Location:

The Project area is located within the area of Aking Land under Songsak C&RD Block of Williamnagar, East Garo Hills District. It is situated at a distance of about 15 km from Songsak block Head Quarter and about 78 km from Williamnagar the District Headquarter. The geographical location is between 90°41'30'' to 90°45'00'' Longitude and 25°39'00'' to 25°42'00'' Latitude. There are four villages within the Watershed which are as follows –

- 1. Pakregre Chijong Apal
- 2. Rongchek Songgitcham
- 3. Gongrang
- 4. Tarasin

Out of the 4(four) villages except Pakregre Chijong Apal there is no motorable road. However road construction works are going under MNREGS in some of the villages.

2.2 Physiography:

The physiography of the micro-watershed is highly undulating. The altitude ranges from a minimum of 279 m to a high of 440 m above mean sea level. In the lower reaches (valley lands) the slope ranges from 6 to 51%.

Table 2.1: Physiographic details

Elevation (metres)	Slope Range (%)	Order of watershed Sub/Micro-watershed	Major streams	Topography
279 m – 440 m	6% - 51%	Micro Watershed	Manda	Moderately sloping

- 2.3 Drainage: The major stream draining the micro-watershed is the Manda which is a 3rd order stream flowing in a north-south direction. The slopes of the micro-watershed are dissected by numerous small tributaries flowing to the Manda.
- 2.4 Soil: Soil Texture is medium throughout the watershed. Soil depth are quite deep. Soils are permeable and generally acidic in nature. Owing to 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. Soil texture is loamy.
 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)
				Water e	erosion:			
		East halaya Garo Hills	East Garo Hills IWMP- III	a	Sheet	1006	N.A.	N.A.
				b	Rill		N.A.	N.A.
1	Meghalaya			с	Gully		N.A.	N.A.
				Sub total		1006	N.A.	N.A.
				Wind erosion		NA	NA	NA
				Total		1006	N.A.	N.A.

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.

1	2	3	4	5	6	7		8		9	
S1.	Name of	Name of the Agro-	Area (in ha)	Names of	Names of the	Major soil type	es	Average annual rainfall in mm	Major crops		
No.	State	climatic zone	Area (III IIa)	the districts	Projects	a) Type	b) Area (ha)	(preceding 5 years' average)	a) Name	b) Area (ha)	
							Betel nut	-			
									Betel leaf	-	
					East Garo Hills IWMP –III				Oranges	-	
										Paddy	227 Ha.
1	Meghalaya	Central Hypothermic	1000 Ha.	East Garo Hills				East Garo Hills IWMP –III	Loam, Clay Loam.	1376 Ha	3355 mm
		Plateau 300-450 m						-	Black pepper	-	
									Litchi	-	
									Banana	-	
									Pineapple	-	
								Total		357 Ha.	

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

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 rice, millet, maize, ginger, yam and vegetables. Fruit crops are well suited in the lower reaches which include banana, pineapple and jackfruit. The slopes of the Middle Manda are also very suitable for betel nut, betel leaf etc. 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	227	19.36	4935
Millet			
Soyabean			
Yam			
Ginger	130	56	7280
Tapioca			
Betel nut	30	13.5	405
Betel leaf			
Black Pepper			
Oranges			
Bay Leaf			

2.7 Natural Vegetation: The tree species common to the watershed area includes – *Shorea* robusta, Schima walichii, Termenalia belerica, Emblica officinalis, *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 one of the most backward in the district. The main reason is due to the absence of road communication, primitive way of

agricultural practices like jhumming and the difficult terrain of the area.

Demographic Status: The total households in the watershed project is 238 with a total population of 1291, of which 668 are male and 623 are female. The detail of the household in each of the villages in the watershed project is as follows:

1.	Pakregre Chijong Apal	-	91 Nos.
2.	Rongchek songgitcham	-	43 Nos.
3.	Gongrang	-	80 Nos.
4.	Tarasin	-	24 Nos.
	TOTAL	-	238 Nos.

Infrastructure facilities :

- 2.1.1 *Roads:* All the villages within the Project Area are not connected by road. Except road to Pakregre Chiojong Apal from Rongjeng
- 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* : There is no electricity connection to any of the villages.
- 2.1.4 *Health* : There is no CHC & PHC in the Project area. The nearest CHC is Rongjeng.
- 2.1.5 Water Supply : Ringwell & Natural stream. Drinking Water facility is not yet provided in any of the villagees. The villager are getting potable water
- 2.1.6 Market : There is a weekly market held once in a week at Rongjeng & Songsak. However, the main market where the people sell their produce are at Rongjeng & Songsak.

Table 2.5: Infrastructure Status.

1	2		3	4				
Name of District	Name of Project		Parameters:	Status				
East Garo Hills	East Garo Hills – IWMP- III	(i)	No. of villages connected to the main road by an all-weather road.	Pakegre Chijong Apal				
		(ii)	No. of village provided with electricity		NI	L		
		(iii)	No. of households without access to drinking water	NIL, but	potable dri availa	0	er is not	
	(iv)		No. of educational institutions:	(P)	(S)	(HS)	(VI)	
			Primary (P)/ Secondary (S)/ Higher Secondary (HS)/ Vocational institution (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	(U)	(S)	(PA)	(0)	
			(e.g. Union (U)/ Society (S)/ Private agency (PA)/ Others (O))	Nil	Nil	Nil	Nil	
		(xiii)	No. of villages with access to Aganwadi Centres	2 Nos.	I	I	I	
		(xiv) Any other facilities with no. of villages (please specify) Nil						

2.9 Livestock: there are only 4(four) kinds of livestock farming being farmed in the area viz. Piggery, Poultry, Cattle Rearing, & Goattery.

Table 2.6: Existing livestock population

Type of Animal	Population
Piggery	135
Poultry	1518
Cattle Rearing	383
Goattery	20
Total	2056

2.10 Land ownership: There are primarily 1(one) types of land holding system, namely Aking Land.

Table 2.7: Land Holding:

1	2	3	4	5	6			
	Name of the	Types of Farmer	No. of	No. of BPL	Land holding (ha)			
District	Project	JI	households	households	Irrigated	Rainfed	Total	
	East Garo	(i) Large	Nil	Nil	Nil	Nil	Nil	
East		(ii) Small	227 Nos.	Nil	Nil	227 Ha.	227 Ha.	
Garo	Hills –	(iii) Marginal	Nil	Nil	Nil	Nil	Nil	
Hills	IWMP-III	(iv) Landless	11 Nos.	11 Nos.	Nil	Nil	Nil	
		Sub - Total						

Table 2.5: Common Property Resources in the Project Area

1	2	3		4			5			
Name of		CPR		Total Area Area owned/ In p		Area available for treatment (ha)				
District	Jan	Particulars	Pvt. Person	Govt. (specify deptt.)	PRI	Any other (Community)	Pvt. Person	Govt. (specify deptt.)	(specify PRI A	Any other (Community)
		(i) Wasteland/ degraded land	-	-	-	334	-	-	-	230
		(ii) Pastures	-	-	-	39	-	-	-	-
		(iii) Private Agriculture land	227 ha	-	-	-	90	-	-	-
		(iv) Village woodlot	-	-	-	-	-	-	-	-
East		(v) Forest	-	-	-	115	-	-	-	225
East	East Garo Hills –	(vi) Village Ponds/ Tanks	-	-	-	10	-	-	-	-
Garo	IWMP-III	(vii) Community Buildings	-	-	-	15	-	-	-	-
Hills		(viii) Weekly Markets	-	-	-	-	-	-	-	-
		(ix) Permanent Markets	-	-	-	-	-	-	-	-
		(x) Temples/ Places of worship	-	-	-	3	-	-	-	-
		(xi) Others (Pl. specify) Jhum Land	-	-	-	633	-	-	-	455
		Total				1376				1000

2.11 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.

	Total	=	1376	Ha
f)	Wastelands-barren Rocky/Stony waste	=	<u>39</u>	Ha
e)	Tree clad Area-open	=	967	На
d)	Tree clad Area-close	=	115	На
c)	Agricultural land-crop land-kharif crop	=	227	На
b)	Water bodies-River/Stream-Perennial	=	-	На
a)	Built-up Area	=	28	На

2.12 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) <u>Base Line Survey</u>: 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) <u>Participatory Rural Appraisal</u>: 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.

1	2	2
Sl.No.	Scientific criteria/ inputs used	No. of projects in which scientific criteria were used
Α.	Planning	
	Cluster approach	Yes,
	Whether technical back-stopping for the project has been arranged? If yes, mention the	Yes,
	name of the Institute.	(i) NESAC, Nongsder
		(ii) SNLA GIS Lab, Shillong
	Baseline survey	Yes
	Hydro-geological survey	No
	Contour mapping	No
	Participatory Net Planning (PNP)	No

Table 3.1: Details of Scientific Planning and Inputs in IWMP projects:

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
В.	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
		(i) Type of organization#	Government
		(ii) Name of organization	Simsanggre Soil & Water Conservation (T) Division,
			Williamnagar.
East Garo Hills	East Garo Hills – IWMP-III	(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 the East Garo Hills IWMP –III was constituted with the active involvement of the villagers with strong support of the Traditional Institutions (Village Nokma/Council). The East Garo Hills IWMP –III Watershed Committee has been 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	Educa- tional ualify- cation	Function/s assigned#
		East Garo Hills		President	1M	-	ST									Cl-VII	A to I
East Garo	East Garo Hills			Secretary		-	ST										-Do-
Hills		IWMP-III Watershed		Member	11M	-	ST										-Do-
111115		Committee		Member	4F	-	ST										-Do-

- 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	Names of projects	Tota	l no. of registe	red SHGs		No.	of mer	nbers				C/ST in egory	No		PL in each egory
Districts	Names of projects	With only Men	With only Women	With both	Total	Categories	М	F	Total	М	F	Total	М	F	Total
						(i) Landless									
East Garo Hills	East Garo Hills		_		Nil	(ii) SF									
	IWMP-III	-	-	-		(iii) MF									
						(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		Ν	lo. of men	nbers		No. of S	C/ST in ea	ch category	No. of	BPL in ea	ch category
Names of Districts	Names of Flojects	Men	Women	Both	Total	Categories	М	F	Total	М	F	Total	М	F	Total
						(i)Landless									
	East Garo Hills –	15			1.5	(ii) SF									
East Garo Hills	IWMP-III	15	-	-	15	(iii) MF									
						(iv) LF									
Total		Nil	Nil	Nil	Nil				Nil			Nil			Nil

CHAPTER IV PROJECT ACTIVITIES

4.1 Preparatory Phase:

i) Entry Point Activities (EPA)

,	y _ ooo					(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-III	6.00 Lakhs	Construction of Ringwell Construction of Link road Playground Improvement Construction of Culvert School Building Repairing Construction of Community Hall (Katcha).	1.9 0.85 0.50 2.00 0.45 0.30	6.00	-	Improvement in Basic Amenities	Improvement in 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	Preparati on of DPR	Evaluation of DPR	Any other (please specify)	Cost incurred (Rs. In lakh)
East Garo Hills	East Garo Hills – IWMP -III	1 No. W/C		-	Participatory Rural Appraisals	N.A	Done	Done	Done	Done	Institution & Capacity Building, DPR.	3.0

4.2 Watershed Works Phase:

1	2	3	4	5		6								7					
						Pre Proje	ct						Pro	posed Projec	t				
								A		on/ repair of structures	existing		Constructi	on of new str	ructures		Т	otal target	
Sl. No	Name of States	Name of Districts	Name of Projects	Type of structures	No	Area irrigated (ha)	Storage capacity	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
				(i) Tank	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				(ii) Pond	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				(iii) Lake	-	-	-												
1.	Meghalaya	East	East Garo Hills	(iv) Check Dam	1	13 Ha.	-	1 No.	13 ha.	-	1.0	14	192 ha.	-	17.9505	15	205 ha.	-	18.9697
	Aegh	Garo Hills	IWMP-III	(v) Percolation Tank	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	~			(vi) Channel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				(vii) Any others (please specify)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

					8						9	10
			Ad	chieveme	ent due to proje	ect (To Achie	eve)					
Aug	Augmentation/ repair of existing structures Construction of new structures Total achievement											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		-
				N I L								

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			Pro	posed	target						Achi	eveme	nt due to p	project	-		
S.	Names of States	Names of Districts	Names of projects	Type of structures	No.	Area irrigated		ation/ repair of narging structur			struction arging st		Total	target		entation/ re sting rechar structures	ging		struction o arging stru		Total ach	ievement	Change in irrigated area (Col. 8-
No. Names of States					(ha)	No.	Area to be irrigated (ha)			Area to be irrigate d (ha)	Estimate d cost	Area to be irrigated (ha)	Estimate d cost	No.	Area irrigated (ha)	Expen di-ture incurre d		Area irri- gated (ha)	Expen di-ture incurre d	gated	Expendi -ture incurred	6) (ha)	
				(i)Open wells																			
1	Meghalaya	East Garo Hills	East Garo Hills	(ii)Bore wells		Nil		Nil			Nil		Nil			Nil			Nil		Nil		
-			IWMP-III	(iii)Any others (Pl. specify)																			
				Total for the project																			

4.2.3 Activities executed by User Groups in the Project Areas.

	2					3		
		N	lajor activities of	the UGs	-Targets			
Names of Districts	Names of Projects		Structure/ acti	ivity prop	posed	No. of UGs		Amount of WDF to be collected
		Sl. No.	Туре	No.#	Treatment (ha)		Estimated Cost	(Rs.)
East Garo Hills	East Garo Hills – IWMP-III	1	Check Dam	14 Nos.	205 Ha.	4 Nos.	18.9697	0.94848

4.2.4 Activities executed by User Groups in the Project Areas:

				4					
			Major ac	tivities of the UGs – Ac	hievements				
	Structure/	activity		No. of UGs involved	Expenditure	N	o. of manda	ys	Amount of WDF
Sl. No.	Туре	No.#	Treated Area (ha.)	incurred (Rs.)	SC	ST	F	collected (Rs.)	
1.	Check Dam	14 Nos.	205 Ha.	4 Nos.	18.9697		11381	1138	0.94848

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

1	2		3	
Names of the	Names of projects		Major activities of the SI	HGs
Districts	Names of projects	Name of activity	No. of SHGs involved	Average annual income from activity per SHG
		1. Tailoring		
		2. Basket Making		
East Garo Hills	East Garo Hills – IWMP-III	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 SHCo	Tota		received by th unt in Rs.)	ne SHG	Total annual	Total appual	No. of S	SHGs Gr	aded as	Total Amount of	No. of SHGs
No. of SHGs given training	Loan from revolving fund	Training	Material	Others (pl. specify)	Income generated (Rs.)	Total annual Savings (Rs.)	Ι	II	III	loan sanctioned by the bank(s)	federated

4.2.7 Other activities of watershed works phase:

1	2	3			4	5			6		7		8		9		10	1	1	12		13
District	Names of projects	Ridge treatm			nage line atment	Nursery r	aising		and opment	Existin	vement g Paddy eld		Horti – trus)	year	iinary & 1 st Plantation Area	ex deg	ovement isting graded orest		ntional	Any other (plea	ase specify)	Total cost incurred (Rs. In lakhs)
	(a)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	
EGH	East Garo Hills IWMP- III			205 Ha.	18.9697	Arecanut 138000 Rubber 57150	8.28 14.2875	37 Ha	7.4	90 Ha	3.87	120 Ha	2.4	138 Ha	10.4328	260 На	9.36			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	
			Тур	e of treatme	ent	r	Type of	land	Executing agency			Ta	rget					А	chi	evement	
District	Project	Name of structures	(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)	0.000	cost		. in	Expected month & year of completion (mm/yyyy)	$c_{\rm II} {\rm m} /$	(R	xpen incu s. in W	rrec 1 lak	d kh)	Status of comple- tion	Actual month & year of completion (mm/yyyy)
		Staggered trenching																			
	Lc	Loose boulder Contour bund	R	-	-	Pri- vate	-	-	Benefi- ciary							-	-	-	-	-	-
		Graded bunding																			
East Garo		Bench terracing			62	62				62 ha.	1	2.4	0	2013-14							
Hills	Hills	Earthern checks dams																			
	IWMP-III	Masonary stop dams		15			15			15 nos	1	8.20)5	-do-							
		Gully plug																			
		Gabion structures		1		1				1 no.	(0.75	5	-do-							
		Underground dykes																			
		Field bunds																			
		Any others (pl. specify)																			

Contd.

4.2.9 Details of engineering structures in watershed works.

						9											
						Outcom	es										
		Water	level (m)	Produ		Income (Rs.in lakh)		Man	days ger	nerated			No	o. of benef	ïciaries	
Reduction in run				(quin	ital)					0.1							
off (cu.m)	(ha)	Pre-project	Post project	Pre-project	Post project	Pre- project	Post project	SC	ST	Others (Men)	Women	Total	SC	ST	Others	Women	Total
				15	30	0.15	0.30		23773		2378	23773		238			238

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

1	2	3		4			5		6			7				8	
			Туре	e of treatme	ent		Type of land	1	Executing agency			Target			1	Achievement	
District	Project	Name of structure/ work	(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	Expendi- ture incurred (Rs. in lakh)	Actual month & year of completion (mm/ yyyy)
		Afforestation															
		Regeneration				\checkmark				260		9.36	3 yrs.	-	-	-	-
East Garo	East Garo	Agro-forestry					\checkmark							-	-	-	-
Hills	Hills	Fuel wood															
	IWMP- III	Fodder															
		Agro- Horticulture				\checkmark				120		2.40	3 yrs.	-	-	-	-
		Pasture dev.															
		Nursery raising	Arecanut				\checkmark			23		8.28	3 yrs.				
		Nusery Raising	Rubber				\checkmark			127		14.2875	3 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							
			Inc	ome		Ν	Mandays gen	erated				No. of benef	iciaries	
Reduction in run off (cu.m)	Production	n (quintal)	(Rs.in	lakh)	SC	ST	Others	Women	Total	SC	ST	Others	Women	Total
P	Pre-project	Post project	Pre-project	Post project	sc	51	Oulers	women	Total	sc	51	Oulers	women	Total
						9360		936	9360					
											238			238
						2400		240	2400					
		92 qtl.		18.40		8280		828	8280					
		1905 qtl.		228.60		14287		1429	14287					

4.2.12 Details of allied / other activities:

1	2	3		4		5		6		7
				Type of land		Executing agency	Та	arget	A	chievement
District	Project	Name of activity@	(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)
		Tailoring	\checkmark		25 Units		2.0	March 2014		
		Carpentry/ Agri-implements/ Basket making etc – 110 nos.			30 Units		1.5	-do-		
		Bee keeping	\checkmark		20 Units		2.0	-do-		
		Backyard poultry								
		Stabilized Mud Block		\checkmark	20 Units		6.0	-do-		
East Garo Hills	East Garo Hills	Piggery Farming		\checkmark	20 Units		6.0	-do-		
		Piggery	\checkmark		25 Units		2.0			
	IWMP-III	Vermi-Composting	\checkmark		16 units		2.0			
		Kitchen gardening	\checkmark		220 Units		5.5	-do-		
		Rice Mill		\checkmark	3 units		1.5	-do-		
		Others (Rural godown,								
		Cableway taxiing								
		Weaving/Handloom			20 units		6.0	-do-		

* 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									
Incom	ncome (Rs.) Mandays generated No. of beneficiaries													
Pre-project	Post project	SC	ST	Others	Women	Total	SC	ST	Others	Women	Total			
			48700		23200	48700		238			238			

4.3 Consolidation and withdrawal phase

Details of activities in the CPRs in the project areas:

1	2	3	4	5		6					7				
						Tar	get				Achieven	nent			
Names of the Districts	Names of projects	Name(s) of the villages	CPR particulars	Activity	Target area under the activity	expenditure	no of	Estimated contri- bution to	Area treated under the	Expenditure incurred (Rs.)	Actual no. of beneficiaries	No.	of man	days	WDF collected (Rs.)
					(ha)	(Rs.)		WDF (Rs.)	activity (ha)			SC	ST	F	、 <i>,</i>
East Garo Hills	East Garo Hills IWMP - III	 (i) Pakregre Chijong Apal (ii) Rongchek Songgitcham (iii) Gongrang (iv) Tarasin 													

CHAPTER - V

PROJECT PHASING & BUDGETING

ACTION PLAN OF MIDDLE MANDA WATERSHED UNDER IWMP - III, SIMSANGGRE SOIL & WATER CONSERVATION DIVISION, WILLIAMNAGAR.

Name of District : East Garo Hills

No. of Villages - 4 Nos.

Name of C & R.D. Block : SONGSAK

Project Area - 1000 Ha.

			I st	Year				II nd Ye	ear				III rd Year				IV th	Year			V th Ye	ar			Tota	al	
SI. No	Activities	C	.S.	S.	S.	Co- odinates	C	S .	S.	S.	Co- odinates		C.S.	S	.S.	0	C.S.	S.5	5.	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	4	5	6	7	8	9	10	11	12	13	14	15	16	17	19	20	21	22	23	24	25	26	27	28	29	30
I	MANAGEMENT COST:																										
A.	Administrative cost:																										
i.	Honourarium of WDT Members @ Rs. 8000/ month – 1 no.							0.96					0.96				0.96							0	2.88	0	0
ii.	Hon ^{rm} of Watershed Volunteers @ Rs. 2500/- month – 3 nos.												0.9				0.9							0	1.8	0	0
iii.	Hon ^{rm} WCO's @ Rs.1000/month x 36 months												0.36				0.36							0	0.72	0	0
iv.	Hon ^{rm} WCM @ Rs.200 x 22 Nos. members/ month for 38 months						16	0.384				16	0.384			16	0.384							48	1.152	0	0
v	Hon ^{rm} Office assistance @Rs.5000/month x 36												1.8											0	1.8	0	0
vi	Hon ^{rm} Chartered Accountant							0.2					0.2				0.2							0	0.6	0	0
vii	TA/DA of Field Asstt. @ 5000/ month.												0.6				0.6							0	1.2	0	0
viii	Hiring charges of office building @ 1500/-							0.18					0.18				0.18							0	0.54	0	0

	1		,	,		 				 		 		 , ,	,	 	 			
ix.	Hiring charges of vehicle @ 5000/month.						0.2				0.5		0.2				0	0.9	0	0
x	Office expenses, POL, Stationeries, printing of SHG's books, pamphlets, tea, snacks etc, cost of camera.						1.076				1.616		0.716				0	3.41	0	0
	Total of A:					16	3			16	7.5	16	4.5				48	15	0	0
	PREPARATORY PHASE :																0	0	0	0
B.	Entry Point Activities:																0	0	0	0
i.	Construction of R.C.C. Culvert.	4	2														4	2	0	0
ii.	Construction of Ringwell	3	1.3	1	0.6												3	1.3	1	0.6
III	Community Hall construction (Kutcha).	1	0.3														1	0.3	0	0
IV	School building repairing	1	0.45														1	0.45	0	0
V	Play ground improvement	1	0.5														1	0.5	0	0
VI	Construction of Link Road.	2	0.85														2	0.85	0	0
	Total of B:	12	5.4	1	0.6												12	5.4	1	0.6
С	Institution & Capacity building																0	0	0	0
i.	Administrative Expenses		0.35		0.15												0	0.35	0	0.15
ii.	Awareness Campaign & Capacity building							1	0.5								0	0	1	0.5
iii.	Exposure visits – off. Campus	1	0.3			1	0.3			1	0.3	1	0.3				4	1.2	0	0
iv.	Capacity building of SHG's/ UG's.							5	1								0	0	5	1
v.	Capacity building of WC Members.	2	0.3					4	0.6	4	0.6	4	0.6				10	1.5	4	0.6
vi	Capacity of WDT/WV	3	0.4			4	0.6			4	0.6	4	0.6				15	2.2	0	0
	Total of C:	6	1.35		0.15	5	0.9	10	2.1	9	1.5	9	1.5				29	5.25	10	2.25
D.	Detailed Project Report:																0	0	0	0
i.	Cost of Resources Inventories works		0.2														0	0.2	0	0
ii.	Cost of PRA Exercises		0.5														0	0.5	0	0
iii.	Cost of Land use Survey works		0.15		0.15												0	0.15	0	0.15

iv.	Cost of formulating		0.5																				0	0.5	0	0
	Total of D:		1.35		0.15																		0	1.35	0	0.15
E.	Monitoring & Evaluation:																						0	0	0	0
i.	Cost of Honorarium to evaluator.							0.3					0.75			0.45							0	1.5	0	0
ii.	Cost of printing report etc.							0.45					0.75			0.3							0	1.5	0	0
	Total of E:							0.75					1.5			0.75							0	3	0	0
	Total of I (A to E)	18	8.1	1.3	0.9	0	21	4.65	10	2.1	0	25	10.5	0	25	6.75	0	0	0	0	0	0	89	30	11.3	3
п	PROJECT COST/WATERSHED WORKS PHASE :																						0	0	0	0
A.	Arable Land Treatment:																						0	0	0	0
i	Pakregre Chijong Apal																						0	0	0	0
	1) Bench terrace @Rs.20000/- per ha.						3 ha	0.6				11 ha	2.2		3 ha	0.6							17 ha	3.4	0	0
	2) Improvement existing Paddy field @Rs.4300/- per ha.						5 ha	0.215				30 ha	1.29		5 ha	0.215							40 ha	1.72	0	0
	3) Agro Horticulture (Citrus) Preliminary 1st year @Rs.2000/- per ha.						10 ha	0.2				20 ha	0.4		10 ha	0.2							40 ha	0.8	0	0
ii	Rongcheck Songgitcham							0.2					011			0.2							0	0	0	0
	1) Bench terrace @Rs.20000/- per ha.						1 ha	0.2				5 ha	1		1 ha	0.2							7 ha	1.4	0	0
	2) Improvement existing Paddy field @Rs.4300/- per ha.						5 ha	0.215				5 ha	0.215		5 ha	0.215							15 ha	0.65	0	0
	3) Agro Horticulture (Citrus) Preliminary 1st year @Rs.2000/- per ha.						5 ha	0.1				15 ha	0.3		5 ha	0.1							25 ha	0.5	0	0

iii.	Gongrang													гт				
															0	0	0	0
	1) Bench terrace @Rs.20000/- per ha.		1 ha	0.2		8 ha	1.6		1 ha	0.2					10 ha	2	0	0
	2) Improvement existing Paddy field @Rs.4300/- per ha.														30 ha	1.29	0	0
			7 ha	0.301		16 ha	0.688		7 ha	0.301	 							
	3) Agro Horticulture (Citrus) Preliminary 1st year @Rs.2000/- per ha.		10 ha	0.2		20 ha	0.4		10 ha	0.2					40 ha	0.8	0	0
iv.	Tarasin														0	0	0	0
	1) Bench terrace @Rs.20000/- per ha.		1 ha	0.2		1 ha	0.2		1 ha	0.2					3 ha	0.6	0	0
	2) Improvement existing Paddy field @Rs.4300/- per ha.		110	0.2		110	0.2		110	0.2					5 ha	0.215	0	0
			1 ha	0.043		3 ha	0.129		1 ha	0.043			-					
	3) Agro Horticulture (Citrus) Preliminary 1st year @Rs.2000/- per ha.		2 ha	0.04		11 ha	0.22		2 ha	0.04					15 ha	0.3	0	0
	Total of A :		51 ha	2.514		145 ha	8.642		51 ha	2.514					247 ha.	13.67	0	0
B. i	Non- Arable Land Treatment: Pakregre Chijong Apal																	
	1) Creation of Rubber																	
	Nursery(polybag) @Rs.25 each.		1350 nos.	0.3375		10350 nos.	2.5875		1350 nos.	0.3375						3.2625		
			3 ha			23 ha			3 ha						29 ha	0		
	2) Creation of Arecanut Nursery @Rs.6 each plant.														7 ha	2.52		
			3 ha	1.08		4 ha	1.44											
	3) Preliminary 1 st yr. planting Arecanut @ Rs.7560/- per ha.					18	1.3608		24 ha	1.8144					18 ha	3.1752		
	4) Improvement existing degraded Forest. Preliminary 1st year. @Rs. 2600/- per ha.														97 ha.	2.522		
	5) Improvememnt of Degraded		25 ha.	0.65		72	1.872					_						
	Forest 2nd year Maintenance @Rs.1000/- per ha.					(M)			(M)							0.97		
							0.25			0.72								

Gongrang													T			í T	
															0		
1) Creation of Rubber			1800						1800								
Nursery(polybag) @Rs.25 each.			nos.	0.45		14400			nos.	0.45					4.5		Ĩ
						nos.	3.6										
			4 ha.			32 ha.			4 ha.					40 ha.	0		
2) Creation of Arecanut Nursery @Rs.6 each plant.														8 ha.	2.88		Ĩ
-			3 ha	1.08		5 ha	1.8							0 IIa.	2.00		
3) Preliminary 1 st yr. planting Arecanut @ Rs.7560/- per ha.														48 ha.	3.6288		
Arecanut @ KS.7500/- per na.						18 ha.	1.3608		30 ha	2.268				40 IIa.	3.0200		Ĩ
4) Improvement existing degraded																	
Forest. Preliminary 1st year. @Rs. 2600/- per ha.														83 ha.	2.158		I
			43 ha	1.118		40 ha.	1.04										Ĩ
5) Improvememnt of Degraded			45 110	1.110		40 Hu.	1.04									·	
Forest 2nd year Maintenance @Rs.1000/- per ha.						(M)			(M)						0.83		Ĩ
@RS.1000/- per lia.						. ,	0.43		. ,	0.4							I
Tarasin							0.43			0.4					0		
1) Creation of Rubber									900								
Nursery(polybag) @Rs.25 each.			900 nos.	0.225		11250 nos.	2.8125		nos.	0.225					3.2625		Ĩ
															0		
2) Creation of Arecanut Nursery			2 ha			25 ha			2 ha					29 ha.	0		
@Rs.6 each plant.														3 ha.	1.08		I
3) Preliminary 1 st yr. planting			2 ha.	0.72		1 ha	0.36										
Arecanut @ Rs.7560/- per ha.														18 ha.	1.3608		Ĩ
	└── ┣					12 ha.	0.9072		6 ha	0.4536							
4) Improvement existing degraded Forest. Preliminary 1st year. @Rs.														201-	0.70		
2600/- per ha.			20 ha.	0.52		10 ha.	0.26							30 ha.	0.78		
5) Improvememnt of Degraded	 		20 118.	0.52		TO IIG.	0.20										
Forest 2nd year Maintenance						(M)	0.2		(M)	0.1					0.3		
@Rs.1000/- per ha.																	
			135	7.888		323	25.7555		90 ha.	8.7168				548	42.3603		
Total of B:			ha.	1.000		ha.	1017 0000		50 1141	0.7100				ha.	12.0000		

С																			
	Pakregre Chijongapal																		
	(a) Boulder Sausage							N25°41'53.5 E090°43'47.2	1 no	0.75							1 no	0.75	
									15 ha								15 ha		
	(b) C.C. Dam							N25°41'42.8 E090°43'30.4	1 no	1.4525							1 no	1.4525	
									12 ha					 			12 ha		
	(d) C.C.Dam repairing																		
	(e) Run of Disposal Channel.											1 no	0.0192				1 no	0.0192	
												0.5 ha					0.5 ha		
	Rongckeck Songcitcham																		
	(a) Boulder Sausage																		
	(b) C.C. Dam			N25°40'16.4 E090°41'47.7	1 no	0.848		N25°41'27.8 E090°42'21.8, N25°41'28.3 E090°42'21.8, N25°40'18.4 E090°41'54.1, N25°40'25.3 E090°42'15.1 & N25°40'13.0 E090°42'45.4	5 nos	6.1								6.948	
					14 ha				50 ha								64 ha.	0	
	(c) C.C.Dam repairing																	0	
	(d) Run of Disposal Channel.																	0	

Gongrang															0	
(a) Boulder Sausage															0	
(b) C.C. Dam						N25°40'25.9 E090°41'02.3, N25°41'36.4 E090°41'18.5, N25°41'36.4 E090°41'36.4 N25°40'45.1 E090°41'19.9 & N25°40'22.7 E090°40'59.5	5 nos	6.5							6.5	
							60 ha							60 ha.	0	
(c) C.C.Dam repairing						N25°41'06.8 E090°42'41.2	1 no	1							1	
							13 ha							13 ha.	0	
(d) Run of Disposal Channel.															0	
Tarasin															0	
(a) Boulder Sausage															0	
(b) C.C. Dam						N25°40'12.6 E090°41'09.6 & N25°40'12.5 E090°41'09.7	2 nos	2.3							2.3	
							40.5 ha							40.5 ha	0	
(c) Foot Bridge							10							110	0	
(d) C.C.Dam repairing															0	
(e) Run of Disposal Channel.															0	
Total of C :			14 ha	0.848			190.5 ha.	18.1025		.05 ha.	0.0192			205 ha	18.9697	
Total of A + B + C				11.25				52.5			11.25			1000 ha.	75	

D	Livelihood Activities for landless persons:																	
i	Pakregre Chijong Apal												 					
	Tailoring @ Rs. 8,000/- unit		1 unit	0.08		3 units	0.24	2 u	2 units	0.16				6	ounits	0.48		
	Carpentry/ Agri- Implements/ Hollow Block Making/Blacksmithy etc @ Rs. 5000/-		1 unit	0.05		4 units	0.2	3	3 units	0.15				8	3 units	0.4		
	Vermi Composting/Weaving @Rs. 12500/- unit					2 units	0.25	2	2 units	0.25				4	units	0.5		
	Piggery & Poultry @Rs. 8000/- unit		1 unit	0.08		2 units	0.16	3 u	3 units	0.24				e	5 units	0.48		
	Apiculture @ Rs. 8000/ unit		1 unit	0.08		2 units	0.16	5 u	5 units	0.4				8	8 units	0.64		
	Kitchen Gardening @ Rs. 2500/- unit		4 units	0.1		6 units	0.15	8 u	3 units	0.2	62 units	1.55			.8 Inits	0.45	62 units	1.55
ii	Rongcheck Songgitcham																	
	Tailoring @ Rs. 8,000/-		1 unit	0.08		3 units	0.24	3 u	3 units	0.24				7	' units	0.56		
	Carpentry/ Agri- Implements/ Hollow Block Making/Blacksmithy etc @ Rs. 5000/-					4 units	0.2	4 u	1 units	0.2				8	8 units	0.4		
	Vermi Composting/Weaving @Rs. 12500/- unit		1 unit	0.125		1 unit	0.125	2 u	2 units	0.25				4	units	0.5		
	Piggery & Poultry @Rs. 8000/- unit		1 unit	0.08		3 units	0.24	3 u	3 units	0.24				7	' units	0.56		
	Apiculture @ Rs. 8000/ unit		_			2 units	0.16	4 u	1 units	0.32				 e	5 units	0.48		
	Kitchen Gardening @ Rs. 2500/-		4 units	0.1		6 units	0.15	8 u	3 units	0.2	27 units	0.68			.8 Inits	0.45	27 units	0.675

Gongrang													0		
Tailoring @ Rs. 8,000/-		1 unit	0.08	3 ur	its 0.2	4	3 units	0.24				7 units	0.56		
Carpentry/ Agri- Implements/ Hollow Block Making/Blacksmithy etc @							4						0.4		
Rs. 5000/-				4 ur	its 0	2	 units	0.2				8 units			1
Vermi Composting/Weaving @Rs. 12500/- unit		1 unit	0.125	1 ur	it 0.12	5	2 units	0.25				4 units	0.5		
Piggery & Poultry @Rs. 8000/- unit		1 unit	0.08	3 ur	its 0.2	4	3 units	0.24				7 units	0.56		
Apiculture @ Rs. 8000/ unit				2 ur	its 0.1	6	5 units	0.4				7 units	0.56		
Kitchen Gardening @ Rs. 2500/-		4 units	0.1	6 ur	its 0.1	5	8 units	0.2	49 units	1.23		18 units	0.45	49 units	1.225
Tarasin													0		
Tailoring @ Rs. 8,000/-		1 unit	0.08	2 ur	its 0.1	6	2 units	0.16				5 units	0.4		
Carpentry/ Agri- Implements/ Hollow Block Making/Blacksmithy etc @ Rs. 5000/-				4 ur	its 0	2	2 units	0.1				6 units	0.3		
Vermi Composting/Weaving @Rs. 12500/- unit				2 ur	its 0.2	5	2 units	0.25				4 units	0.5		
Piggery & Poultry @Rs. 8000/- unit		1 unit	0.08	3 ur	its 0.2	4	1 unit	0.08				5 units	0.4		
Apiculture @ Rs. 8000/ unit		1 unit	0.08	2 ur	its 0.1	6	1 unit	0.08				4 units	0.32		l
Kitchen Gardening @ Rs. 2500/-		4 units	0.1	4 ur	its 0	1	8 units	0.2	12 units	0.3		16 units	0.4	12 units	0.3
Total of D:		29 units	1.5	74 Uni	s 4	5	88 units	5.25	150 units	3.75		191 units	11.25	150 units	3.75

Mark Hock Making @ R. Mark Model (@ R. Mark Model (B R. Mark Model (
$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	Е																
Participand Participand <	1.	Production System and Micro															
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	i											 					
$ \left \begin{array}{c c c c c c c c c c c c c c c c c c c $	1	r aki egi e enijong ripui															
$ \left \begin{array}{c c c c c c c c c c c c c c c c c c c $												 					
$ \left \begin{array}{c c c c c c c c c c c c c c c c c c c $		Piggery/Poultry @ 30 000/ unit		1 unit	03			-	٥٩		0.6			3 units	0.9		0.9
Image: Solution of the					0.5				0.5		0.0			5 011105			0.5
e @R.3000: unit Iunit 0.3 Iunit 0.9 Iunit 0.5 Iunit 0.4 Iunit 0.5									0.6	l .	1.2			4 units	1.2		0.6
Image: Second and the second								-							1.2	-	
Note that somethy is a second of the second of th		@Rs.30000/- unit		1 unit	0.3			units	0.9	units	0.9	 		4 units		units	0.9
Figery:Poultry@30.000'unit Init 0.3 Init 0.6 I										1 unit	0.5			1 unit	0.5		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	ii	Rongcheck Songgitcham										 					
Mud Block Making @ Rs. 30,000' unit Mud Block															0.9		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$				1 unit	0.3			units	0.9		0.6	 	 	 3 units			0.9
Weaving/Handborn @Rs.3000/unit Weaving/Handborn @Rs.3000/unit Weaving/Handborn (Rice Mill @Rs.3000/unit) Weaving								1 unit	03		0.0			3 units	0.9		0.3
embody embody<									0.5		0.5			5 dilits			0.5
Rice Mill @Rs. 50,000/ unit Image: S0,000/ un		@Rs 30000/- unit						-	0.9		0.9			3 units	0.9		0.9
Piggery/Poultry @ 30,000' unit Image: Constraint of the second seco		Rice Mill @Rs. 50,000/- unit													0.5		
PiggeryPoultry @ 30,000/ unit Image: Constraint of the constra	iii	Gongrang															
PiggryPoulty @ 30,000/ unit Image: Constraint of the constrain								2		2					0.6	2	
Mud Block Making @ Rs. 30,000/ unit Mud Block		Piggery/Poultry @ 30,000/ unit							0.6	1	0.6			2 units	0.0		0.6
$ \left[\begin{array}{c c c c c c c c c c c c c c c c c c c $										3					10	1	
@Rs.30000/-unit Image: Solution of the second of the s		30,000/ unit		1 unit	0.3			1 unit	0.3		0.9			4 units	1.2		0.3
@Rs.30000/- unit @Rs.30000/- unit @Rs.30000/- unit @Rs.30000/- unit Image: Constraint of the constrai								2		1					0.6	2	
Rice Mill @Rs. 50,000/- unit I		@Rs.30000/- unit					<u> </u>	units	0.6	units	0.6	 		 2 units	0.0	units	0.6
iv Tarasin I<		Dias Mill @Da 50 000/ amit								1	0.5			1	0.5		
Piggery/Poultry @ 30,000/ unit Image: Constraint of the constr	iv									1 unit	0.5			1 unit			
Piggery/Politry @ 30,000/ unit C <thc< th=""> C <thc< th=""> C C <thc<< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>2</td><td></td><td>2</td><td></td><td></td><td></td><td></td><td>0.6</td><td>2</td><td></td></thc<<></thc<></thc<>								2		2					0.6	2	
30,000/unit 1 unit 0.3 1 unit 0.3 units 0.9 4 units 1.2 unit Weaving/Handloom @Rs.30000/- unit 1 1 0.3 1 0.4 1 1.2 unit									0.6	units	0.6			2 units	0.6	units	0.6
Weaving/Handloom @Rs.30000/- unit Image: Solution of the solutio				1 uni+	0.2			1 unit	0.2	-	0.0			4 unite	1.2		0.3
@Rs.3000/- unit Image: Comparison of the comparison of t		· · · ·			0.5	+			0.5	units	0.9			4 011115			0.5
Rice Mill @Rs. 50,000/- unit Image: Solution of the second s		Weaving/Handloom @Rs.30000/- unit							0.6	1 unit	0.3			1 unit	0.3	-	0.6
							1		0.0		0.0						5.0
		Rice Mill @Rs. 50,000/- unit															
		Total of E :		Eunit	15			25 unite	75	33 unite	10 5			38 unite	12	25 unite	7.5

F.	Consolidation & Exit Phase:															
г.	Consolidation & Exit Phase:															
	Repairs, Maintenance of CPR's.											2.75	0.25		2.75	 0.25
	Improving the sustainability of various Interventions											2	0.25		2	 0.25
	Documentation of successful experiences & Preparation of Completion Report											2	0.25		2	0.25
	Total of F:											6.75	0.75		6.75	0.75
	Total of II (A+B+C+D+E+F)				14.25			57	7.5	27	3.75	6.75	0.75	1000 ha.	105	12
	Grand Total (I + II)	8.1	0.9		18.9	2.1		67.5	7.5	33.75	3.75	6.75	0.75	1000 ha.	135	15

Convergence of EGH IWMP Project -III with NREGS

Rubber Plantation Norms for NREGS

	2nd y IW			/ear of REGS	3rd Y	/ear of /MP	2nd	Year of REGS	4th Y	ear of	3rd	Year of REGS		Year VMP		Year of REGS	TOTAL	(IWMP)	TOTAL	(NREGS)
Location & Activities	Phy.	Fin.	Phy	Fin.	Phy.	Fin.	Phy	Fin.	Phy	Fin.	Phy	Fin.	Phy	Fin.	Phy	Fin.	Phy.	Fin.	Phy.	Fin.
Pakregre Chijong Apal			-				-		<u> </u>				<u> </u>						,.	
Creation of Rubber Nusery (Polybag) @Rs.25/- per plant.	1350 nos.	0.338			10350 nos.	2.5875			1350 nos.	0.338							13050 nos.	3.2625		
Preliminary 1st year plantation @Rs.15760/- per ha. (Material Component)	3 ha		3 ha.	0.4728	23 ha		23 ha	3.6248	3 ha		3 ha.	0.4728					29 ha.	0	29 ha	4.5704
Preliminary & 1st Year Wage Component @Rs.51100/-				1.533				11.753				1.533								14.819
2nd Year Maintenace @Rs.1000/- per ha.							(M)	0.03			(M)	0.23			(M)	0.03			(M)	0.29
2nd Year Wage Component. @Rs.35910/-								1.0773				8.2593				1.0773				10.4139
Rongcheck Songgitcham																		0		0
Creation of Rubber Nusery (Polybag) @Rs.25/- per plant.	1350 nos.	0.338			10350 nos.	2.5875			1350 nos.	0.338							13050 nos.	3.2625		0
	3 ha				23 ha				3 ha								29 ha	0		0
Preliminary 1st year plantation @Rs.15760/- per ha. (Material Component)			3 ha.	0.4728			23 ha	3.6248			3 ha.	0.4728							29 ha	4.5704
Preliminary & 1st Year Wage Component @Rs.51100/-				1.533				11.753				1.533								14.819
2nd Year Maintenace @Rs.1000/- per ha.							(M)	0.03			(M)	0.23			(M)	0.03			(M)	0.29
2nd Year Wage Component. @Rs.35910/-								1.0773				8.2593				1.0773				10.4139

Gongrang																		0		0
Creation of Rubber Nusery (Polybag) @Rs.25/- per plant.	1800 nos.	0.45			14400 nos.	3.6			1800 nos.	0.45							18000 nos.	4.5		0
	4 ha.				32 ha.				4 ha.								40 ha.	0		0
Preliminary 1st year plantation @Rs.15760/- per ha. (Material Component)			4 ha	0.6304			32 ha.	5.0432			4 ha	0.6304							40 ha.	6.304
Preliminary & 1st Year Wage Component @Rs.51100/-				2.044				16.352				2.044								20.44
2nd Year Maintenace @Rs.1000/- per ha.							(M)	0.04			(M)	0.32			(M)	0.04			(M)	0.4
2nd Year Wage Component. @Rs.35910/-								1.4364				11.4912				1.4364				14.364
Tarasin																		0		0
Creation of Rubber Nusery (Polybag) @Rs.25/- per plant.	900 nos.	0.225			11250 nos.	2.8125			900 nos.	0.225							13050 nos.	3.2625		0
	2 ha				25 ha				2 ha								29 ha	0		0
Preliminary 1st year plantation @Rs.15760/- per ha. (Material Component)			2 ha.	0.3152			25 ha.	3.94			2 ha.	0.3152							29 ha	4.5704
Preliminary & 1st Year Wage Component @Rs.51100/-				1.022				12.775				1.022								14.819
2nd Year Maintenace @Rs.1000/- per ha.							(M)	0.02			(M)	0.25			(M)	0.02			(M)	0.29
2nd Year Wage Component. @Rs.35910/-								0.7182				8.9775				0.7182				10.4139
TOTAL																	57150 nos.			0
		1.35	0	8.0232	0	11.5875	0	73.295	0	1.35	0	46.0405	0	0	0	3.711	127 ha.	14.2875	127 ha.	131.7879

Convergence of EGH IWMP Project -III with NREGS

				-			-		-		-	ILUS	1			_				
	2nd ye IWI			rear of REGS		/ear of /MP	-	Year of REGS	-	ear of MP		Year of REGS		Year NMP		Year of REGS	TOTAL	(IWMP)	TOTAL	(NREGS)
Location & Activities			Phy				Phy		Phy		Phy		Phy		Phy					(
	Phy.	Fin.		Fin.	Phy.	Fin.		Fin.		Fin.		Fin.		Fin.		Fin.	Phy.	Fin.	Phy.	Fin.
Pakregre Chijong Apal																				
Creation of Rubber Nusery (Polybag) @Rs.25/- per plant.	1350 nos.	0.338			10350 nos.	2.5875			1350 nos.	0.338							13050 nos.	3.2625		
	3 ha				23 ha				3 ha								29 ha.	0		
Preliminary 1st year plantation @Rs.15760/- per ha. (Material Component)			3 ha.	0.4728			23 ha	3.6248			3 ha.	0.4728							29 ha	4.5704
Preliminary & 1st Year Wage Component @Rs.51100/-				1.533				11.753				1.533								14.819
2nd Year Maintenace @Rs.1000/- per ha.							(M)	0.03			(M)	0.23			(M)	0.03			(M)	0.29
2nd Year Wage Component. @Rs.35910/-								1.0773				8.2593				1.0773				10.4139
Rongcheck Songgitcham																		0		0
Creation of Rubber Nusery (Polybag) @Rs.25/- per plant.	1350 nos.	0.338			10350 nos.	2.5875			1350 nos.	0.338							13050 nos.	3.2625		0
	3 ha				23 ha				3 ha								29 ha	0		0
Preliminary 1st year plantation @Rs.15760/- per ha. (Material Component)			3 ha.	0.4728			23 ha	3.6248			3 ha.	0.4728							29 ha	4.5704
Preliminary & 1st Year Wage Component @Rs.51100/-				1.533				11.753				1.533								14.819
2nd Year Maintenace @Rs.1000/- per ha.							(M)	0.03			(M)	0.23			(M)	0.03			(M)	0.29
2nd Year Wage Component. @Rs.35910/-								1.0773				8.2593				1.0773				10.4139

Gongrang																		0		0
Creation of Rubber Nusery (Polybag) @Rs.25/- per plant.	1800 nos.	0.45			14400 nos.	3.6			1800 nos.	0.45							18000 nos.	4.5		0
	4 ha.				32 ha.				4 ha.								40 ha.	0		0
Preliminary 1st year plantation @Rs.15760/- per ha. (Material Component)			4 ha	0.6304			32 ha.	5.0432			4 ha	0.6304							40 ha.	6.304
Preliminary & 1st Year Wage Component @Rs.51100/-				2.044				16.352				2.044								20.44
2nd Year Maintenace @Rs.1000/- per ha.							(M)	0.04			(M)	0.32			(M)	0.04			(M)	0.4
2nd Year Wage Component. @Rs.35910/-								1.4364				11.4912				1.4364				14.364
Tarasin																		0		0
Creation of Rubber Nusery (Polybag) @Rs.25/- per plant.	900 nos.	0.225			11250 nos.	2.8125			900 nos.	0.225							13050 nos.	3.2625		0
	2 ha				25 ha				2 ha								29 ha	0		0
Preliminary 1st year plantation @Rs.15760/- per ha. (Material Component)			2 ha.	0.3152			25 ha.	3.94			2 ha.	0.3152							29 ha	4.5704
Preliminary & 1st Year Wage Component @Rs.51100/-				1.022				12.775				1.022								14.819
2nd Year Maintenace @Rs.1000/- per ha.							(M)	0.02			(M)	0.25			(M)	0.02			(M)	0.29
2nd Year Wage Component. @Rs.35910/-								0.7182				8.9775				0.7182				10.4139
TOTAL																	57150 nos.			0
		1.35	0	8.0232	0	11.5875	0	73.295	0	1.35	0	46.0405	0	0	0	3.711	127 ha.	14.2875	127 ha.	131.7879

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

1	2	3	4	5	6	5	7	8	9		1()				11		
SL No	Name of State	Name of Districts	Names of Projects	Year of sanction	dura	ject ation mm/ yy)	Area of the projects	Project cost (Rs. In	Names of Micro watersheds & Code nos. (as per DoLR's		Area (ha) of	the projects				Area details (hang within the pr		
					From	То	projects	lakh)	unique codification)									
										Cultivated rainfed area Cultivated irrigated area Uncultivated waster area a) b)				Pvt. Agri. Land	Forest land	Community land	Others (pl. specify)	Total area (ha)
												a) Tempora ry fallow	b) Permanent					
1	Meghalaya	East Garo Hills	East Garo Hills IWMP- III	2010-2011	2010-2011	2014-2015	1000 ha	150 lakhs	East Garo Hills IWMP – III 3B1B5a6h, 3CIA5a2g	90 Ha.	-	910 Ha.	-	-	-	-	-	1000 ha

Fund provision for the IWMP projects from all sources:

1	2	3						2	4					5
							Funds from o	ther sources	in addition to	IWMP fund	ds	r		-
District	Name of Projects	IWMP	Fund	Converge	nce funds]	PPP	Comm	nunity	Institution	nal finance	Others (Pl. specify)	Total
		Central Share	State Share	Name of Scheme	Amount (Lakhs)	Name of private sector	Financial contri- bution	Name	Financial contri- bution	Name	Financial contri- bution	Name	Financial contri- bution	
East Garo Hills	East Garo Hills IWMP-III	135 lakhs	15 lakhs	NREGS	139.7079									

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

1	2	3	4		5					6		
				Di	stt. Agency's Proj	ect Account det	ails		Watersh	ed Committee (W	C) account details:	
Sl. No	Names of States	Name of District s	Names of Projects	Name of the Bank and Branch where project account has been opened	Account Number (to be obtained confidentially)	Account type (Savings/ Current/ Others)	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-III	Yet to be opened	Yet to be obtained	N.A.	Chairman W.C, Secretary W.C, Project Leader / WDT	East Garo Hills IWMP-III Watershed Committee	Yet to be opened	Yet to be obtained	N.A.	Chairman W.C, Secretary W.C, 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	convergence (Ks. in lakhs)	Name of activity/task/structure undertaken with converged funds (a) Structures (b) livelihoods (c) Any other (pl. specify) [#]	Reference no. of activity/ task/ structure in DPR [@]	Level at which decision for convergence was taken ^{\$}
1	East Garo Hills	East Garo Hills – IWMP-III	* Community Rural Development Department NREGS	N.A.	 (i) Agro – Horticulture – 120 ha. (ii) Plantation of Rubber – 127 ha. 	List of NREGS Convergence Enclosed	Block Level & District Level

Note:

(i)

Public-Private Partnership in the IWMP projects: NIL

1	2	3		4			5	6	7	8	9
			Тур	pe of agreem	ent signed		ncial bution				
District	Name of project	Name of Private Sector Partner Agency	a)MoU	b)Contract	c) Any other (pl. specify)	IWMP	Private sector	Partnership Interventions	Expected Outcomes	Actual Outcomes	Comments

* 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.

1	2	3	4	5	6	7	8			9		
		Name of the	Full Address	Name &			Accre-			Performance	ce	
S.	State	Training	with contact no.,	Designation of	Type of Institute [#]	Area(s) of specialization ^{\$}	ditation	Refer-	No. of	No. of	No. of	No. of
No	State	Institute	website & e-	the Head of	Type of institute	Area(s) or specialization	details	ence	trainings	trainees to	trainings	trainees
		Institute	mail	Institute			uctails	Year	assigned	be trained	conducted	trained
1		NIRD (NER)	Guwahati	Director	Central Govt.	Remote Sensing, Rural Devt.	NA	-				
2	а	SIRD	Nongsder	Director	State Govt.	Capacity Building	NA	-				
3	lay	RRTC	Umran	Director	Don-Bosco	Agri-Horti, Animal Husbandry,	NA					
	tha					Entrepreneurship						
4	Meghala	ICAR	Umiam	Director	Central Govt.	Do	NA					
5	4	VTC	Kyrdem Kulai	Director	State Govt.	Animal Husbandry	NA					
6		Fruit Garden	Shillong	Director	State Govt.	Agri-Horti, Fruit Processing	NA					

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

• 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	2	3	4	5		6		7
Project	Total no.	No. of persons	No. of persons to be trained	No. of persons trained during		f funding for ining		s utilized akhs)
Stakeholders	of persons	trained so far	during current financial year	current financial year	a) DoLR	b) Any other (Pl. specify)	a) DoLR	b) Any other (Pl. specify)
SLNA			-	-				
DRDA/ZP cell			-	-				
PIAs			-	-				
WDTs			-	-				
UGs			-	-	-	-	-	-
SHGs			-	-				
WCs			-	-				
GPs			-	-				
Community			-	-				
Others								
Pl. specify)								

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

	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	0.50	0.50	
2	Exposure Visits	S&WC (T) Division	1.2	0.30	
3.	Capacity Building	S&WC (T) Division	5.3	.70	

CHAPTER VII EXPECTED OUTCOME

Table 7.1 Employment related outcomes:

]	1							2		
Sl	Name of					Wage em	ploym	ent					Se	lf employı	ment	
No	Village		N	o. of man	days			No.	of benefi	ciaries			No.	of benefi	ciaries	
		SC	ST	Others	Women	Total	SC	ST	Others	Women	Total	SC	ST	Others	Women	Total
1.	 (i) Pakregre Chijong Apal (ii) Rongchek Songgitcham (iii) Gongrang (iv) Tarasin 	-	48700	-	23200	48700	-	266	-	-	266	-	16	-	6	16

Table 7.2 Migration Details:

1	2	3	4	5	6	7	8	9	1	0
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)	identify majo	d migration or activities of esponsible (b) Livelihoods
				N	Ι	L				

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

 Table 7.3 Economic benefits accrued to women:

1	1	2	2		3	4
Wa	iges	Trai	ning	Liv	velihoods	
Woman days	Amount (Rs. in lakhs)	No. of women participants	Amount (Rs. in lakhs)	No. of women beneficiaries	Value of assistance provided (Rs. in lakh)	Total (Rs. in lakh)
23200	2320000	N.A.	N.A.	N.A.	N.A.	2320000

* 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	Names of the	Particular of CPR	Nature of	Period of	Be		y details (1 milies)	10. of	User Charges
Districts	projects	villages	OUCPK	right	right	SC	ST	Others	Total	(Rs.)
East Garo Hills	East Garo Hills IWMP-III	(i) PakregreChijong Apal(ii) RongchekSonggitcham(iii) Gongrang(iv) Tarasin	Check Dam – 14 Nos.	F ,Fw, G, P, Rd, So, T, Wd, Wi.	Live Long	-	All	-	-	N.A.

* 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
Р	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
Т	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
0	for any right o	ther than indicated above (please specify)

 Table 7.5 Water related outcomes:

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
		Open wells	-	-	-	-	-
East Garo Hills	East Garo Hills IWMP- III	Bore wells	-	-	-	-	-
		Others (specify) Springs	very poor poor	poor	Good	Increased	-

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

* 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		bility of drinki of monyhs in a	0	Qualit	y of drinking	water	Comments	
District	District Name of the project		Post- project	Change in availability	Pre- project	Post- project	Change in quality	Comments	
East Garo Hills	East Garo Hills IWMP - III	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		
				Water savings in	cu.m.	
District	Name of the project	Name of major crop	through water saving devices ^{\$}	through water conserving agronomic practices [#]	Any other (pl specify)	Total
East Care Hills	East Garo Hills	Paddy	-	-	-	-
East Garo Hills	IWMP - III	Ginger	-	-	-	-

* 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		
					Pre-j	project					Mi	d-term	l				P	ost-proj	ject	
Names of the Districts	Name of Projects	Name of crops	AreaAverageAreaYield(ha)(Qtl) perha.		Total Productio n (Qtl)		Area (ha)		Average Yield per ha (Qtl)		Total Production (Qtl)		Area (ha)		Yi pe	erage ield r ha Qtl)		Production Qtl)		
			Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.
		Paddy	-	120	-	1400	-	1400	-	-	-	-	-	-	-	600	-	2000	-	2000
		Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Soyabean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
East	East	Yam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Garo	Garo	Ginger	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Hills –	Tapioca	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hills	IWMP	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

1	2	3	4	5				6					7	1						8		
							Pre-	project					Mid-	term						Post-pro	ject	
Sl No.	Names of States	Names of the Districts	Name of Projects	Name of crops	Ar (h	rea a)	Yi (Qtl	erage ield 1) per 1a.	Prod	otal uction Qtl)	Ar (ha		Yi per	rage eld • ha (tl)			Ar (h	rea a)	Y	erage 'ield na (Qtl)		Production (Qtl)
					Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.
1.	Meghalaya	East Garo	East Garo Hills –	Paddy	-	-	-	-	-	-	-	-	-	-	-	-	-	200	-	1800	-	1800
		Hills	IWMP	Ginger	-	130	-	5570	-	5570	-	-	-	-	-	-	-	200	-	6000	-	6000

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

* 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

1	2	3	4	5			6						7	1					8			
							Pre-pi	oject					Mid-	term					Post-p	roject	t	
Sl No.	Names of States	the of	Name of crops	Ar (h		1		To Prod 01 (Q	lucti n		rea a)	Aver Yie per (Q	eld ha	Tot Produ n (Qt	uctio	Are (ha		Aver Yie per (Qt	ld ha	Tot Produ (Q	ction	
		Districts	riojecis		Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.
									N	Ι	L											

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

* 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		
			Existing	g area under fod	der (ha)		Achievement (ha)	ent (ha)	
District	Name of project	Duration of Project	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 - III	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	
			Exist	ing area tree co	over (ha)		Achievement (ha)	
District	Name of project	Duration of Project	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 - III	5 yrs	Statistical Report, Meghalaya	-	-	260 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		
			Existing ar	ea under hortic	ulture (ha)		Achievement (ha)		
District	Name of project	Duration of Project	Source/Name of report	Year of reference	Area already under horticulture	Area under horticulture proposed to be covered through IWMP	Area under horticulture actually covered through IWMP	Change in area under horticulture	
East Garo Hills	East Garo Hills IWMP- III	5 yrs	-	-	-	120 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				
			Existing a	area under fo	odder (ha)	Achievement (ha)				
District	Name of project	Duration of Project	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 - III	5 yrs	Nil	Nil	Nil	Nil	Nil	Nil		

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

Table 7.7 Livelihood related outcomes:

1	2	3		4			5			6		7
Names of	Name of	Tune of Animal	Pre-project			Mid-term]	Remarks		
the Districts	Projects	Type of Animal	No.	Yield	Income	No.	Yield	Income	No.	Yield	Income	Kelliarks
	East Garo	Milch- animals										
East Garo	Hills	Piggery										
Hills	IWMP -	Poultry										
111115	III	Apiculture in										
		unit										
	Total for all											
	projects											
Total for all												
Districts												

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.):

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

Table 7.7.2 Details of other livelihoods created for landless people:

1	2	3	4	5			6	7				8						
		Project Name of activity	Fund requir	Sources of funding (Rs.)			Actual Expenditur	No	. of be	neficiar	ries train	ned	No. of beneficiaries taking up activity					
District Proje	Project		ed for the activit y (Rs.)	Project Fund	Benefi -ciary	Others (pl. specify)	Total	e incurred on activity (Rs.)	SC	ST	Othe rs	Wome n	Tot al	SC	ST	Oth ers	Wome n	Total
		Tailoring																
East	East Garo	Basket - Making/Ca rpentry			AS	ENC	LOS	ED IN	AC	CTI	ON	PLA	N					
Garo Hills	Hills IWMP - III	Stabilized Mud - making																
	- 111	Kitchen - gardening																

(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							
No of por	one omployed		Impa	Impact of livelihoods programme							
No. of persons employed indirectly in the activity		Annual increase in income due to	Migration (No. of benefic		Development forward	Any other information					
Total	Grand Total (8+9)	activity (Rs.)	Pre-project	Post-project	Pre-project	Post-project	(pl. Specify)				
			AS ENCLO	AS ENCLOSED IN ACTION PLAN							

Table 7.7.4 Details of other livelihoods created for farmers:

1	2	3	4		5			6			7		8			
		Name of for the	Fund required	Sources of funding (Rs.) in Lakhs			Actual	No. of farmers trained				No. of farmers taking up activity				
District	Project		Project Fund	Benefi -ciary	Others (pl. specify)	Total	Expenditure – incurred on activity (Rs.)	SF	MF	LF	Total	SF	MF	LF	Total	
	East															
East	Garo				AS I	ENCL	OSE	ED IN A	C	CIO	NF	PLA	N			
Garo	Hills															
Hills	IWMP															
	- III															

* 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.

	9	10]		12	
No. of persons employed indirectly in the activity		Annual increase in income due to	Mig	Impact of livelih ration meficiaries)	Development	e of backward- linkages	Any other information
Total	Grand Total (8+9)	activity (Rs.)	Pre-project	Post-project	Pre-project	Post-project	(pl. Specify)
			NIL	NIL	NIL	NIL	NIL

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

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.)
		(A) Backward linkages	-	-	-
		(i) Seed certification	-	-	-
		(ii) Seed supply system	-	-	-
		(iii) Fertilizer supply system	-	-	-
		(iv) Pesticide supply system	-	-	-
		(v) Credit institutions	-	2	2
		(vi) Water supply	-	-	-
		(vii) Extension services	-	1	1
		(viii) Nurseries	-	4 Nos.	4 Nos.
	East Garo Hills	(ix) Tools/machinery suppliers	-	3 Nos.	3 Nos.
East Garo		(x) Price Support system	-	-	-
Hills	IWMP-	(xi) Labour	-	1000	1200
nilis	I W WIF-	(xii) Any other (please specify)	-	-	-
	111	(A) Forward linkages	-	-	-
		(i) Harvesting/threshing machinery	-	-	-
		(ii) Storage (including cold storage)	-	-	-
		(iii) Road network	-	2 Nos.	2 Nos.
		(iv) Transport facilities	-	-	-
		(v) Markets / Mandis	-	2 Nos.	2 Nos.
		(vi) Agro and other Industries	-	-	_
		(vii) Milk and other collection centres	-	-	-
		(viii) Labour	-	1300	1500
		(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
		Status of water table	-	-	Good	
		Ground water structures repaired/ rejuvenated	-	-	4 Nos.	
		Quality of drinking water	-	-	Improved	
		Availability of drinking water	-	-	Sufficient	
		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	-	-	135 Ha.	
		Increase in area under horticulture	-	-	120 Ha	
		Increase in area under fuel & fodder	-	-	-	
		Increase in milk production	-	-	-	
		No. of SHGs	-	-	4 Nos.	
		Increase in no. of livelihoods	-	-	-	-
		Increase in income	-	-	48000	
		Migration	-	-	-	
		No. of school going children	-	-	-	
		SHG Federations formed	-	-	-	
		Credit linkage with banks	-	-	2 Nos.	
		Resource use agreements	-	-	-	-
		WDF collection & management	-	-	1 No.	
		Summary of lessons learnt	May be	attached as a separa	ate file	

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 III	East Garo Hills – IWMP III Watershed Committee	N.A.	117.0 Lakh	N.A.	N.A.	N.A.	1: 1.5	N.A.

Table 7.10 Cost effectiveness of structures/ activities*

* 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

