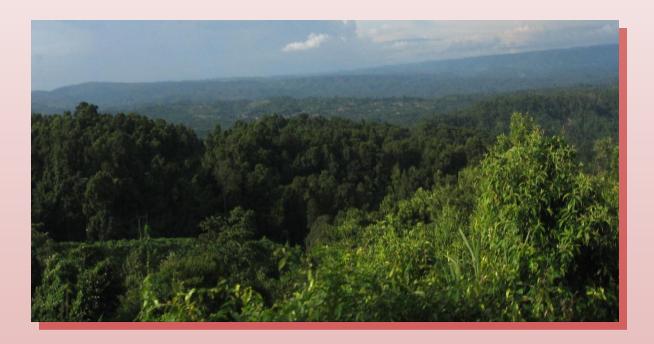
# **GOVERNMENT OF MEGHALAYA**



# DEPARTMENT OF SOIL & WATER CONSERVATION DETAILED PROJECT REPORT OF MIRITCHI MICRO WATERSHED UNDER INTEGRATED WATERSHED MANAGEMENT PROGRAMME WGH IWMP - VII 2010 – 2011



TURA SOIL & WATER CONSERVATION WEST GARO HILLS, MEGHALYA DALU C&RD BLOCK

# **SUMMARY**

Name of the Sate	:	Meghalaya
Name of the District	:	West Garo Hills
Name of the C&RD Block	:	Dalu
Name of the Village	:	Ganipara
Name of the Project	:	IWMP-II
Total Geographical Area	:	703.10 Ha
Total Treatment Area	:	500 Ha
Total Project Cost	:	75 lakhs
Project Duration	:	5 Years
Project Implementing Agency	:	Soil & Water Conservation
		Territorial Division, Tura

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# CHAPTER I INTRODUCTION AND BACKGROUND

#### **CHAPTER I**

#### INTRODUCTION AND BACKGROUND

#### 1.1 Project Background:

The Miritchi (IWMP-VII) project is located in Dalu C&RD Block, West Garo Hills District of Meghalaya. Consisting of a single micro-watershed, the project area is drained by the Miritchi River and its tributaries flowing in a south-west direction. The total area is 703.10 Ha. with 500 Ha to be treated under the Integrated Watershed Management Programme (IWMP).

The Project area is located at a distance of about 45 km from Tura, the Civil Sub-Divisional Head Quarter. Only one village (Ganipara) is covered under the project.

#### **1.2 Micro-watershed Information:**

The micro-watershed code is as codified by the North East Space Application Centre (NESAC). The total area of the micro-watershed is 703.10 Ha., with 500 hectares to be treated under the Integrated Watershed Management Programme (IWMP).

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

The micro-watershed Miritchi IWMP-VII falls under the High Priority category as per the prioritization of watersheds by the North East Space Application Centre (NESAC). The farmers are all marginal and Jhum cultivation is practiced by most of the inhabitants of these villages on the slopes.

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

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

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

i. NREGS

## CHAPTER II BASIC INFORMATION OF THE PROJECT AREA

#### 2.1 Location:

The Project area is located within the area of Dalu the C&RD Block of Tura Civil Sub-Division, West Garo Hills District. It is situated at a distance of about 45 km from Tura the Civil Sub-Divisional Head Quarter. The geographical location is between 90°08'6.00'' to 90°10'48.00'' E Longitude and 25°17'24.00'' to 25°20'6.00'' N Latitude. There is only one village (Ganipara) within the Watershed.

#### 2.2 Physiography:

The physiography of the micro-watershed is highly undulating. The altitude ranges from a minimum of 41 m to a high of 140 m above mean sea level. In the lower reaches (valley lands) the slope ranges from 1-5 %, however, in the middle and upper reaches it is greater than 15 %, and can reach up to 50 %.

Elevation (metres)	Slope Range (%)	Order of watershed Sub/Micro- watershed	Major streams	Topography
41 m-140 m	1%-50%	2 <sup>nd</sup> order -Micro Watershed	Miritchi, Asim, Jongdik, Narong-Asi, Najik, Nadili, Chigitchak.	Flat and gentle slopes

#### **Table 2.1: Physiographic details**

#### 2.3 Drainage:

The major stream draining the micro-watershed is the Miritchi which is a 2<sup>nd</sup> order stream flowing in a South-West direction and join Bandra River at Chasinpara.

#### 2.4 Soil:

Soil Texture is gravelly on the sloping lands and clayey to loamy 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.

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:			
			West	а	Sheet			
		West	Garo	b	Rill	500		
1	Meghalaya	Garo	Hills –	с	Gully			
		Hills I		Sub	total	500		
				Wind e	rosion	Nil	Nil	Nil

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

#### 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 3200 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													
S1.	Name of	Name of the Agro-				Area											Names of	Major soil types	or soil types		Major cr	ops
No		climatic zone	(in	(in the the a) b) ha) distric ts Projects Type Area (ha)		Projects a) b) (I Type Area (I		ric Projects a) b) (preceding 5 Type Area (ba) (paceding 5 years'		(preceding 5	a) Name	b) Area (ha)										
									Paddy	40												
		hyperther	hyperther		hyperther	hyperther	hyperther	perther mic 500 lateau Ha Garo Hills – Hills –	500	ther c 500	500	West Garo	Garo	Garo	500		Maize	10				
1	Meghala ya	mic plateau 55-				500 Ha						500 На		Garo	Hills – IWMP –	Hills – IWMP –	excessively drained 5	excessively drained	500 На	3200 mm	Oranges	60
		160m						VII				Arecanut	40									
									Ginger	25												
								Total		175 Ha												

#### 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 3-4 years. The principal agricultural crops grown of the jhum fields are rice, sweet potato, millet, maize, yam and vegetables. Fruit crops are well suited in the lower reaches which include banana,mango,orange, pineapple, jackfruit, litchi. The slopes of the Miritchi are also very suitable for betel nut, betel leaf, black pepper, which contribute to the income of the people.

Crops	Area (ha)	Average Yield (Qtl) per ha.	Total Production (Qtl.)
Paddy	40	15	600
Maize	10	20	200
Orange	60	30	180
Arecanut	50	8	400
Ginger	25	35	875

#### Table 2.4: Crop yield and production

#### 2.7 Natural Vegetation:

The tree species common to the watershed area includes Mirbelia Champaca,Artocarpus Chapalasa,Gmelina Arborea,Dendrocalamus Bambusa Spp,Shorea Robusta,vitree Pedangcularis,Bohemia,Malabarica Sterospurmum chelanaidis,Schima walichii,Bombar ceiba etc. 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 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 69 with a total population of 315, of which 158 are male and 157 are female.

Infrastructure facilities :

- 2.1.1 *Roads:* The village within the Project Area is not connected by all weather road. The Project area depends entirely on the kutcha road constructed by NREGS.
- 2.1.2 *School:* there is only one L.P School and one U.P School within the Project Area run by the Government.
- 2.1.3 *Electricity* : No Households have the connection yet.
- 2.1.4 *Health* : One Community Health Centre at Kherapara.
- 2.1.5 *Water Supply* : Drinking water supply have been provided by the PHE Deptt. However, during lean season the entire population have to depend on springs available in the area as the supply is not sufficient to meet the daily requirement.
- 2.1.6 *Market* : There is a weekly market held once in a week at Kherapara which is 12km from the project area.

#### Table 2.5: Infrastructure Status

1	2		3		4									
Name of District	Name of Project		Parameters:	Status										
		(i)	Whether connected to the main road by an		NI	Ĺ								
			all weather road											
		(ii)	No. of households without electricity		NI									
		(iii)	No. of households without access to drinking water											
		(iv)	No. of educational institutions:	(P)	(S)	(HS)	(VI)							
			Primary (P)/ Secondary (S)/ Higher	1 L.P										
			Secondary (HS)/ Vocational institution (VI)	&1	-	-	-							
						U.P.								
		(v)	Distance of project village from nearest Primary Health Centre	1(Kherapara 12km)										
	West (vi)		Distance of project village from nearest		NI	L								
West	Garo Hills –	Garo Hills –	Garo Hills –	Garo Hills –	Garo Hills –	Garo	Hills –	Garo	× ́	Veterinary Dispensary				
Garo Hills								(vii)	Distance of project village from nearest Post Office		NI	Ĺ		
	VII	(viii)	Distance of project village from nearest Banks	NIL										
		(ix)	Distance of project village from nearest Markets/ mandis	1()	Kherapa	ra 12km	ı)							
		(x)	Distance of project village from nearest Agro-Industries	NIL										
		(xi)	Total quantity of surplus milk		NI	Ĺ								
		(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		1 N	0.	I							
			Centres											
		(xiv)	No. of worship place	NIL										

**2.9 Livestock:** there are only 3 kinds of livestock farming being farmed in the area viz. Piggery, Poultry and Bee-Keeping or Apiculture.

Type of Animal	Population
Piggery	41 nos
Poultry	680 nos
Cattle	75 nos
Goatery	60 nos

 Table 2.6: Existing livestock population

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

1	2	3	4	5	6				
Name of	Name of	Types of	No. of	No. of	L	Land holding (ha)			
Distric t	the Project	Farmer	household s ds	Irrigated	Rainfed	Total			
		(i) Large(>5 Ha)	NIL						
	WGH-	(ii) Small(1-5 Ha)	NIL						
WGH		(iii) Marginal(<1 Ha)	60		NIL	109.8	109.8		
		(iv) Landless	NIL						
		Sub – Total	60				109.8		

#### Table 2.7: Land Holding:

1	2	3		,	4			5		
Na	Name			Total A Area owned/ I	area (ha) n posses		Area available for treatment (ha)			
me of Dist rict	of the Projects	CPR Particulars	Pvt. Pers on	Govt. (specify deptt.)	PRI	Any other (Communi ty)	Pvt. Person	Govt. (specify deptt.)	PRI	Any other (Commu nity)
		(i) Wasteland/ degraded land				100.07				10
		<ul><li>(ii) Private</li><li>Agriculture Land</li><li>(iii) Orchards</li></ul>	85.9 5			100	85			95
		(iv) Village woodlot								
		(v) Forest				28.29				15
Wes t	WGH IWMP-	(vi) Village Ponds/ Tanks								
Gar o	VII	(vii) Community Buildings								
Hill s		(viii) Weekly Markets (ix) Permanent Markets								
		(x) Temples/ Places of worship								
		(xi) Jhum Cultivation	30.0 7			35	20			30
		(xii)Permanent Cultivation	56			80	35			75
		(xiii) Any other(Horticultural land)	49.7 2			135	45			90
	Total		221. 74			478.36	185			315

#### Table 2.5: Common Property Resources in the Project Area

**2.11 Land use and land cover :** As per the land use land cover map the Watershed area has been broadly classified into the following land uses.

a)	Agricultural land-crop land-kharif crop		=	59.73 Ha
b)	Jhum Land		=	50.07 Ha
c)	Tree clad Area-close		=	108.29 Ha
d)	Tree clad Area-open		=	336.07 Ha
e)	Horticultural Land crop		=	119.72 Ha
f)	Wastelands-barren Rocky/Stony waste		<u> </u>	29.22 Ha
		Total	=	700.1 Ha

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

# **CHAPTER III**

# **PROJECT PLANNING & INSTITUTION BUILDING**

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#### **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) <u>GIS & Remote Sensing</u>: 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
A.	Planning	
	Cluster approach	3
	Whether technical back-stopping for the project has been arranged? If yes, mention the name of the Institute.	Yes, i) NESAC, Nongsder. ii) SLNA 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 <sup>#</sup>	NO
	Integrated coupled analyzer/ near infrared visible spectroscopy/ medium spectroscopy for high speed soil nutrient analysis	NO
	Normalized difference vegetation index (NDVI)#	YES
	Weather Stations	NO
B.	Inputs	
	1. Bio-pesticides	NO
	2. Organic manures	YES
	3. Vermi-compost	NO
	4. Bio-fertilizer	YES
	5. Water saving devices	YES
	6. Mechanized tools/ implements	NO
	7. Bio-fencing	YES
	8. Nutrient budgeting	YES
	9. Automatic water level recorders & sediment samplers	NO
	Any other (please specify)	

#### **3.2 Project Implementing Agency:**

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

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

#### **3.3 Institution Building**

#### i) Watershed Committee (WC)

The Watershed Committee of the Miritchi Watershed IWMP-VII was constituted with the active involvement of the villagers with strong support of the Traditional Institutions (Village Durbar/Council). The Miritchi Watershed Committee has been registered under the Society Registration Act 1983.

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	WCs	Date of Registration as a Society (dd/mm/ yyyy)	tion	M/F	SC	ST	SF	MF	LF	Land- less	UG	SHG	GP	Any other	Educa- tional ualify- cation	Function/s assigned#
				President	М	-	ST									Cl – X	A to I
West Garo	West Garo Hills District –	Miritchi	Under	Secretary	М	-	ST									P.U (Arts)	A to I
Hills	IWMP –	WIIIItem	progress	Member	7 M	-	ST									Cl – IV	Do
District	VII –			Member	1 F	-	ST									to X	Do
				Member													

Β.

F.

#### Table 3.2: Details of Watershed Committees (WC):

- A. PNP and PRA
- C. Maintenance of Accounts
- E. Supervision of construction activities
- G. Verification & Measurement
- I. Social Audit

- Planning
- D. Signing of cheques and making payments
  - **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	Nomocof		l no. of reg	istered S	SHGs	No. o	of mer	nbers				ST in egory		o. of B ch cate	PL in egory
of the Districts	Names of projects	With only Men	With only Women	With both	Total	Categories	М	F	Total	М	F	Total	М	F	Total
W.G. H	W.G.H IWMP -VII	2 No			2 No	(i) Landless (ii) SF (iii) MF (iv) LF	30		30	30		20	NA	NA	NA

#### 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.

1	2		3				4				5			6	
Names of Districts	Names of		Total no.	of Ugs		No. o	f men	bers			f SC/S catego	T in each ory		of BPL i categor	
Numes of Districts	Projects	Men	Women	Both	Total	Categories	М	F	Total	М	F	Total	М	F	Total
						(i)Landless									
W.G.H	W.G.H. IWMP-					(ii) SF									
	VII	_	_	_	_	(iii) MF									
						(iv) LF									
Total					NIL				NIL			NIL			NIL

#### Table 3.4: User Group Details

CHAPTER IV PROJECT ACTIVITIES

# CHAPTER IV PROJECT ACTIVITIES

#### **4.1 Preparatory Phase:**

#### i) Entry Point Activities (EPA)

_	, s							(Financia	l – 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	W.G.H	W.G.H IWMP-VII	3.00 Lakh	Construction of Spring Chamber/Ringwell	3.00 Lakh		_	_	Increase in availability of drinking water

# ii) Other activities of Preparatory Phase:

1	2	3	4	5	6	7	8	9	10	11	12	13
Distri ct	Name of Projects	Initiation of village level institution	Capacity building	IEC activities	Baseline survey	Hydro- geologi cal survey	Identifyin g technical support agencies	Resource agree-ments	Prepa ration of DPR	Evalu ation of DPR	Any other (please specify)	Cost incurred (Rs. In lakh)
W.G. H	W.G.H IWMP- VII	a) Rapport Building b) Community meeting c)Formation of	<ul> <li>a) Project</li> <li>concept/roles</li> <li>and</li> <li>responsibility of</li> <li>W.C</li> <li>b) Concept/roles</li> <li>and</li> <li>responsibility of</li> <li>SHG and UG</li> <li>c) Concept/roles</li> <li>and</li> <li>responsibility of</li> <li>of WDT</li> <li>members</li> <li>d) Off-campus</li> <li>exposure trip to</li> <li>research</li> <li>Institutes/Establi</li> <li>shed farms etc.</li> </ul>	a)Pampl ets b)Banne rs c)Poster s	a)Particip atory Rural Appraisal s b)Socio Economi c Survey	a)GPS survey b)Engi- neering Survey	a) NIRD b)SIRD c)ICAR d)NEHU	<ul> <li>a) NOC with village</li> <li>headman for under-taking</li> <li>develop-mental works</li> <li>b) Agreement for</li> <li>convergence</li> <li>of NREGS</li> <li>scheme with</li> <li>IWMP with</li> <li>VEC.</li> </ul>	a)Res ource invent ory works	Done	_	1.5

#### 4.2 Watershed Works Phase:

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

1	2	3	4	5		6								7					
					]	Pre Proje	ect						Propo	sed Project	į				
								Augm		/ repair of actures	f existing	Cor	nstruction	of new stru	ictures		Tota	l target	
S 1. N 0	Nam e of State s	Name of Distri cts	Name of Projects	Type of structures	No	Area irriga ted (ha)	Stora ge capac ity	No	Area to be treate d (ha)	Storag e capaci ty	Estimat ed cost (in lakhs)	No	Area to be treated (ha)	Storage capacit y (per unit)	Estimat ed cost (in lakhs)	No	Area to be treated (ha)	Storag e capaci ty (m <sup>3</sup> )	Estima ted cost
				Dug out Pond	-	-	-	-	-	-	-	17	25	1390 m <sup>3</sup>	8.5	17	25	1390 m <sup>3</sup>	8.5
				Check Dam	-	-	-	-	-	-	-	3	75	765 m³	7.50	3	75	765 m <sup>3</sup>	7.50
			W.G.H	Conserva tion Pond	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	Me ghal	W.G. H	- IWMP -VII	Irrigation Channel	-	-	-	-	-	-	-	1359 rmt	55	-	0.68	135 9 rmt	50	-	0.68
	aya	п	- • 11	Water harvesting farm pond	-	-	-	-	-	-	-	2	84	1425 m <sup>3</sup>	5.00	2	84	1425 m <sup>3</sup>	5.00
				Earthen Embankm ent	-	-	-	-	-	-	-	100	20	250 m³	0.7	60	20	250m <sup>3</sup>	0.7
			Total		-	-	-	-	-	-	-	-	259	<b>3830</b> m <sup>3</sup>	22.38	-	259	<b>3830</b> m <sup>3</sup>	22.38

						8					9	10
				Ac	hievement	due to proje	ect					
Augme		repair of e	existing	C	onstruction	of new stru	ctures	T	otal achievem	ent	Change in storage capacity (col 8-6)	Change in irrigated area (ha) Col. (8- 6)
No	Area irrigated (ha)	Storage capacity       Expenditur e incurred (in lakhs)       No       Area irrigated (ha)       Storage capacity       Expenditure incurred (in lakhs)       Area irrigated (ha)       Storage capacity								Estimated incurred	-	-

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

	1	2	3	4	5		6					7								8				9
						Pre	-project				Prop	osed targ	get	T				Achi	eveme	nt due to	project	1		
S	5. (o. c	Names of States		Names	Type of	No.	Area	exist	ntation/ 1 ing recha structure	arging			n of new tructures	Total	target		entation/ re ting rechar structures		Cons	struction ( arging stru		Total ach	ievement	Change in irrigated area (Col. 8-
			S	F			(ha)	No.		Estimat ed cost		Area to be irrigate d (ha)	Estimate	Area to be irrigated (ha)	Estimate	No.	Area irrigated (ha)	Expen di-ture incurr ed	No	Area irri- gated (ha)	Expen di-ture incurre d		Expendi -ture incurred	
					(i)Dug out pond						11	15	5.5	11	5.5									
1		/leghala	West	WGH-			NIL		NIL								NIL			NIL		NIL		
	У			IWMP- VII																				
					Total for the project						11	15	5.5	11	5.5									

# 4.2.3 Activities executed by User Groups in the Project Areas.

1	2				3			
			Major activities o	f the UGs –Ta	rgets			
Names of Districts	Names of Projects		Structure/ ac	tivity proposed	1	No. of UGs	Estimated	Amount of WDF to be collected
Districts	Tojects	Sl. No.	Туре	No.#	Treatment (ha)	involved	Cost	(Rs.)
		1	C.C.Check Dam Irrigation	3	75	1	7.50	0.375
W.G.H	W.G.H- IWMP-VII	2	Stone Masonry Protection Wall	4	65	2	2.00	0.1
		3	Irrigation Channel	1359 rmt	55	2	0.68	0.034
		Total			195	5	10.18	0.509

# 4.2.4 Activities executed by User Groups in the Project Areas:

				2	1				
			М	ajor activities of the	UGs – Achievemen	ts			
	Structu	re/ activity		No. of UGs	Expenditure	No. of	f mandays		Amount of WDF
Sl. No.	Туре	No.#	Treated Area (ha.)	involved	incurred (Rs.)	SC	ST	F	collected (Rs.)

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

1	2		3	
		Ν	lajor activities of the SHGs	5
Names of the Districts	Names of projects	Name of activity	No. of SHGs involved	Average annual income from activity per SHG
		Piggery	3	1.125
		Poultry	3	1.125
W.G.H	W.G.H-IWMP-VII	Group Rubber budded Nursery	-	-
		Fishery cum piggery	4	.50
	Total		10	2.75

### 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		assistance re (Amoun	ceived by the tin Rs.)		Total annual	Total annual		o. of S Grade	SHGs d as	Total Amount of loan	No. of SHGs
SHGs given training	Loan from revolving fund	Training	Material	Others (pl. specify)	Income generated (Rs.)	Savings (Rs.)	Ι	II	III	sanctioned by the bank(s)	federated
	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-

1	2	3		4		5		6	<u>,</u>	7	7	8		9		10	)	1	1	12	,	13
District	Names of		ent	Drainag treatm	ent	Nursery	_	uevelo	pment	io	nstrat ns	Horticult Cash C Develop	Crop ment	Veteri servi	ces	Fishe develop	oment	conve al er	ergy	speer	1y)	Total cost incurred
Dis	projects	(a)	(b) (Rs)	(a)	(b) (Rs)	(a)	(b) (Rs)	(a)	(b) (Rs)	(a)	(b)	(a)	(b)	(a)	(b) (Rs)	(a)	(b) (Rs)	(a)	(b)	(a)	(b)	(Rs. In lakhs)
W G H	W.G. H IWM P-VII	i)Impr oveme nt of degrad e forest (10 Ha)	0.3 6	<ul> <li>i)check dam</li> <li>ii)prote ction wall</li> <li>iii)dug out pond</li> <li>iv)farm pond</li> <li>v)chan nel</li> <li>vi)Emb ankme nt</li> </ul>	2.0 8.5 5.00 0.68 0.7	i) Grou p rubbe r nurse ry (2780 Oplan t)	6.9 5	i)Wet Terra ce(10 Ha)	3.00	-	-	<ul> <li>i)Rubbe</li> <li>r</li> <li>plantati</li> <li>on(60</li> <li>Ha)</li> <li>ii)Areca</li> <li>nut</li> <li>plantati</li> <li>on (35</li> <li>Ha)</li> <li>(iii)Citr</li> <li>us(oran</li> <li>ge)Plant</li> <li>ation</li> <li>(40 Ha)</li> </ul>	5.72 3.52 3.52	i)pig gery ii)po ultry	0. 90 0. 90	Fisher y cum pigger y (25 unit)	1.5	-	-	i)Kitch en garden ing(30 Unit) ii)Tail oring( 5Unit) iii)Car pentry( 5Unit)	3.80 0.40 0.3	
	Total		0.3 6		24.3 8		6.9 5		3.00				12.7 6				1.5				4.50	54.75

4.2.7 Other activities of watershed works phase:

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

1	2	3		4			5		6			7	1							8	
			Тур	e of treatm	ent	Г	Type of I	land	Executing agency			Targ	get					1	Acł	nievement	
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)	No. of units (No./ cum./ rmt)	Estir M	nated c in lakl W	<i>,</i>		units (No. 	i (Rs	ncu s. in	ditu rred lak	l th)	Status of comple- tion	Actual month & year of completion (mm/yyyy)
		C.C.Check Dam		D			Comm 1nity		UG/WC	3 Nos.	4.5	3	7.50	3 yrs	-	-	-	-	-	-	-
		Stone masonry Protection Wall	-	D			Com munit y		UG/WC	3 Nos	1.2	0.8	2.00	3 yrs	-	-	-	-	-	-	-
	W.G. H- IWMF	Wet Terrace			L	Privat e			UG/WC	10 Ha		3.00	3.00	3 yrs	-	-	-	-	-	-	-
W.G.H		Dug-out Pond		D		Privat e			UG/WC	11 Nos		5.5	5.50	3 yrs	-	-	-	-	-	-	-
		Earthen Irrigation Channel		D			Com munit v		UG/WC	1359 Rmt		0.68	0.68	3 yrs	-	-	-	-	-	-	-
		Water harvesting farm pond		D			5		UG/WC	Nos	3	2	5	3 yrs	-	-	-	-	-	-	-
		Total									8.7	14.9 8	23.68		-	-	-	-	-	-	-

4.2.9 Details of engineering structures in watershed works.

							9										
							Outcomes										
		Water le	evel (m)		luction iintal)	Income	(Rs.)		М	andays g	enerated			N	o. of benef	iciaries	
Reduction in run off (cu.m)	Area treated#							-									
	(ha)	Pre-project	Post project	Pre- project	Post project	Pre- project	Post project	SC	ST	Others (Men)	Women	Total	SC	ST	Others	Women	Total
NA	325	NA	NA						100%	8940	600	1498		100%	58	11	69

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

1	2	3		4			5		6			7				8	
			Туре	e of treat	ment	T	ype of I	land	Executing agency		r.	Target				Achievement	
Distr ict	Pro ject	Name of structure/ work	(i) Ridge area (R)	(ii) Draina ge line (D)	(iii) Land dev. (L)	(i) Priv ate	(ii) Com munit y	(iii) Other s (pl. specif y)	(i) UG (ii)SHG (iii) Others (pl. specify)	Area (ha)	No. of plants	Estimate d cost (Rs. in lakh)	Expected 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)
		Improvement of degraded forest	R				С		WC	10 Ha	10,000	0.36	3 yrs	-	-	-	-
WG	IW MP	Rubber Plantation	R			Р			Farmers	60 Ha	27,000	5.71	3 yrs	-	-	-	-
Н	- VII	Arecanut	R			Р			Farmers	35 Ha	47,950	3.52	3 yrs	-	-	-	-
		Citrus (orange)	R			Р			Farmers	40 Ha	20,000	3.52	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							
								Outcor	nes						
Name of	Reduc	Production	(quintal)	Inco				Mandays g	generated	1			No. of ben	eficiaries	
activitie s	tion in run off	Trouverion	(quintui)	ost Pro project Post		SC	ST	Others	Women	Total	SC	ST	Others	Women	Total
	(cu.m)	Pre-project	Post project	Pre-project											
Improve ment of degraded forest	NA						100 %	86	58	144		100%	50	32	82
							100 %					100%			
Rubber Plantatio n	NA						100 %	864	576	1440		100%	25	15	40
							100 %					100%			
Arecanut	NA						100 %	353	235	588		100%	28	14	42
							100 %					100%			
Citrus (orange)	NA						100 %	664	443	1107		100%			
							100 %					100%			
Total							100 %	1967	1312	3279		100%	103	61	164

#### 4.2.12 Details of allied / other activities:

1	2	3		4		5		6		7
				Type of	land	Executing agency		Target	Achiev	vement
District	Project	Name of activity@	(i) Privat e	(ii) Communit y	(iii) Others (landless)	(i) UG (ii)SHG (iii) Others (pl. specify)	Estimated cost (Rs. in lakh)	Expected month & year of completion (mm/yyyy)	Expendi-ture incurred (Rs. in lakh)	Actual month & year of completion (mm/yyyy)
		Kitchen gardening			Individual	Private	3.80	31/3/2014	-	-
		Tailoring	$\checkmark$		Individual	Private	0.40	31/3/2014		
		Piggery			Individual	SHG/UG	0.90	31/3/2012	-	-
		Carpentry			Individual	Private	0.30	31/3/2014		
<b>TT</b> 7		Poultry			SHG	SHG/UG	0.90	31/3/2013	-	-
West	W.G.H									
Garo Hills	IWMP-II	Fishery cum piggery unit			SHG	Private	1.00	31/3/2014	-	-
111115										
		Group rubber Budded nursery	$\checkmark$		SHG	SHG/UG	6.9	31/3/2014	-	-
		Total					14.2		-	-

#### (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 g	enerated				No. of bene	ficiaries	
Name of activities	Pre-project	Post project	SC	ST	Others	Women	Total	SC	ST	Others	Women	Total
Kitchen gardening	6000-7000	20,000- 25,000		108 0	NIL	720	1800		20	NIL	10	30
Piggery	30,000-35,000	60,000- 70,000		240	NIL	160	400			NIL	30	30
Poultry	12,000-15,000	40,000- 45,000		240	NIL	160	400			NIL	30	30
Fishery cum piggery	NIL	50,000- 60,000		60	NIL	40	100		15	NIL	10	25
Group rubber nursery	NIL	85,000- 90,000	168 NIL			1120	2800		30	NIL		30
	Total			330 0		2200	5500		65		80	145

## 4.3 Consolidation and withdrawal phase

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

1	2	3	4	5		(	6				7				
						Ta	rget			A	chievemen	t			
Names of the Districts	Names of projects	Name(s) of the villages	CPR particula rs	Activity proposed	Target area under the activity	Estimated expenditure (Rs.)	Expected no. of beneficia- ries	bution to	under the	e incurred	Actual no. of benefici- aries		o. of ndays	5	WDF collecte d (Rs.)
					(ha)		1105	WD1 (R3.)			unes	SC	ST	F	
West Garo Hills	WGH IWMP- VII	(i)Ganipara	-	Repairing maintainance of CPR'S.	-	1.75	-	0.0875		-	_		_	_	-

## **PROJECT PHASING & BUDGETING**

ACTION PLAN OF MIRITCHI WATERSHED UNDER IWMP TERRITORIAL DIVISION: TURA

Name of District :- West Garo Hills

No. of Villages: 1 nos

Name of Cⅅ Plack, DALU					0							
	т	at	TT						T T	7		
Activities							IV V	(250/)	-		<b>T</b> 1(1	
	-	<u> </u>		· · ·		<u> </u>		<u>`</u>		· · ·		,
			,		5		5		5		5	Fin
	3	4	5	6	7	8	9	10	11	12	13	14
MANAGEMENT COST:												
Administrative Cost:-10%			2%		5%		3%				10%	
Honourarium of WDT Members @ Rs.8000/- month-1												1
no.				0.96		0.96		0.96				2.88
Honourarium of Watershed Committee Chairman												
@500/ month				0.01		0.06		0.02				0.09
Honourarium of WCM @ Rs. 200/Members/month for												
, , ,				0.036		0.216		0.072				0.324
Honourarium of Charter Accountant				0.15		0.15		0.15				0.45
TA/DA/ of Field Asst. @ 5000/- month				0.05		0.60		0.20				0.85
Hiring charges of office building @ 1000/ month				0.02		0.12		0.12				0.26
Hiring charges of vehicle @ 5000/ month				0.10		0.60		0.20				0.990
Office expenses POL Stationeries Printing of SHG's				0 1 7 4		1.044		0 5 2 0				1 740
				0.174		1.044		0.528				1.746
TOTAL OF A:			2%	1.50	5%	3.75	3%	0.528			10%	7.50
PREPARATORY PHASE: 4%												
Entry Point Activities:	4%											
Construction of Spring Chamber/Ringwell	5											
@Rs60,000/- each	Nos.	3.00									5	3.00
TOTAL OF B:		3.00										3.00
	Name of C&RD Block:- DALU         Activities         2         MANAGEMENT COST:         Administrative Cost:-10%         Honourarium of WDT Members @ Rs.8000/- month-1         no.         Honourarium of Watershed Committee Chairman         @500/ month         Honourarium of WCM @ Rs. 200/Members/month for 9 nos.         Honourarium of Charter Accountant         TA/DA/ of Field Asst. @ 5000/- month         Hiring charges of office building @ 1000/ month         Hiring charges of vehicle @ 5000/ month         Office expenses, POL, Stationeries, Printing of SHG's books, pamphlets, tea, snacks ets, cost of camera.         TOTAL OF A:         PREPARATORY PHASE: 4%         Entry Point Activities:         Construction of Spring Chamber/Ringwell @Rs60,000/- each	Name of C&RD Block:- DALUActivitiesI YearPhyPhy23MANAGEMENT COST:IAdministrative Cost:-10%IHonourarium of WDT Members @ Rs.8000/- month-1 no.IHonourarium of Watershed Committee Chairman @500/ monthIHonourarium of WCM @ Rs. 200/Members/month for 9 nos.IHonourarium of Charter AccountantITA/DA/ of Field Asst. @ 5000/- monthIHiring charges of office building @ 1000/ monthIHiring charges of vehicle @ 5000/ monthIOffice expenses, POL, Stationeries, Printing of SHG's books, pamphlets, tea, snacks ets, cost of camera.IPREPARATORY PHASE: 4%IEntry Point Activities:4%Construction of Spring Chamber/Ringwell @Rs60,000/- each5Nos.I	Name of C&RD Block:- DALUActivitiesIst Year(6%)PhyFin234Administrative Cost:-10%IstHonourarium of WDT Members @ Rs.8000/- month-1 no.IstHonourarium of WDT Members @ Rs.8000/- month-1 no.IstHonourarium of Watershed Committee Chairman @ 500/ monthIstHonourarium of Watershed Committee Chairman @ 500/ monthIstHonourarium of WCM @ Rs. 200/Members/month for 9 nos.IstHonourarium of Charter AccountantIstTA/DA/ of Field Asst. @ 5000/- monthIstHiring charges of office building @ 1000/ monthIstHiring charges of vehicle @ 5000/ monthIstOffice expenses, POL, Stationeries, Printing of SHG's books, pamphlets, tea, snacks ets, cost of camera.IstPREPARATORY PHASE: 4%IstConstruction of Spring Chamber/Ringwell @ Rs60,000/- eachIstSoudSoudSoudNos.3.00	Name of C&RD Block:- DALUIstIIActivitiesIstYearPhyFinPhy234234Administrative Cost:-10%IIMANAGEMENT COST:IIAdministrative Cost:-10%IIHonourarium of WDT Members @ Rs.8000/- month-1IIno.IIIHonourarium of Watershed Committee ChairmanII $@500/$ monthIIIHonourarium of WCM @ Rs. 200/Members/month forII9 nos.IIIHonourarium of Charter AccountantIITA/DA/ of Field Asst. @ 5000/- monthIIHiring charges of office building @ 1000/ monthIIHiring charges of vehicle @ 5000/ monthIIOffice expenses, POL, Stationeries, Printing of SHG's books, pamphlets, tea, snacks ets, cost of camera.ITOTAL OF A:IIPREPARATORY PHASE: 4%IConstruction of Spring Chamber/Ringwell5 R.3.00@Rs60,000/- eachNos.3.00	Name of C&RD Block:- DALUProjectActivitiesIstIIIYear(6%)Year(14%)Year(6%)Year(14%)Year(6%)FinPhyPhyFinPhy2345Administrative Cost:-10%IIAdministrative Cost:-10%IINonourarium of WDT Members @ Rs.8000/- month-1IIno.IIIHonourarium of Watershed Committee ChairmanII@500/ monthIIIHonourarium of WCM @ Rs. 200/Members/month forII9 nos.III10.1Ionourarium of Charter AccountantIITA/DA/ of Field Asst. @ 5000/- monthII0.036Hiring charges of office building @ 1000/ monthII0.174Office expenses, POL, Stationeries, Printing of SHG's books, pamphets, tea, snacks ets, cost of camera.IIOffice Entry Point Activities:4%IIConstruction of Spring Chamber/Ringwell @Rs60,000/- eachSIIImage Solon I and	Name of C&RD Block:- DALUProject Area :ActivitiesIst Year(6%)IIn Year(14%)IIn YearPhyFinPhyFinPhy234567MANAGEMENT COST:2225%Monourarium of WDT Members @ Rs.8000/- month-1 no.I225%Honourarium of WDT Members @ Rs.8000/- month-1 no.II0.965%Honourarium of Watershed Committee Chairman $@500/$ monthII0.961Honourarium of WCM @ Rs. 200/Members/month for 9 nos.0.010.01511Honourarium of Charter AccountantII0.0511TA/DA/ of Field Asst. @ 5000/- monthII0.0211Hiring charges of office building @ 1000/ monthII0.1011Office expenses, POL, Stationeries, Printing of SHG's books, pamphlets, tea, snacks ets, cost of camera.IIIIIOffice PARATORY PHASE: 4%IIIIIIIIIConstruction of Spring Chamber/Ringwell @ Rs60,000/- each5Nos.3.00III <td< td=""><td>Name of C&amp;RD Block:- DALUProject Area : 500 HaActivitiesIstIIndIIIndIIInd<math>Year(6\%)</math>Year(14%)Year(5%)Year(5%)Year(14%)Year(5%)12345678Administrative Cost:-10%122%5%1Honourarium of WDT Members @ Rs.8000/- month-1122%5%1no.111111110011111111011111111110211111111110311</td><td>Name of C&amp;RD Block:- DALUProject Area : 500 HaActivitiesIstIIndVear (5%)Year (14%)Year (5%)Year (5%)IV Year2345678923456789MANAGEMENT COST:10101010Manage Cost:-10%-2%2%5%3%3%Honourarium of WDT Members @ Rs.8000/- month-1-0.960.960.960.96Honourarium of WAtershed Committee Chairman-0.010.060.960.96@500/ month0.010.060.960.96Honourarium of WCM @ Rs. 200/Members/month for 9 nos0.010.010.060.116Hiring charges of office building @ 1000/ month0.010.600.60Hiring charges of vehicle @ 5000/ month0.1740.010.60Office expenses, POL, Stationeries, Printing of SHG's books, pamphlets, tea, snacks ets, cost of camera2%1.04-Office expenses, POL, Stationeries, Printing of SHG's Books, pamphlets, tea, snacks ets, cost of cameraOffice expenses, POL, Stationeries, Printing of SHG's Books, pamphlets, tea, snacks ets, cost of camera<!--</td--><td>Name of C&amp;RD Block:- DALU         Project Area : 500 Ha           Activities         Ist         Hard         Ist         Ist         Hard         Ist         Hard         Ist         Hard         Hard         Ist         Hard         Hard&lt;</td><td>Name of C&amp;RD Block:- DALU         First rest of the sector of the s</td><td>Name of C&amp;RD Block:- DALUProject Area: 500 HatActivitiesIst Year(5%)Ind Year(4%)Ind Year(5%)Ind Year(5%)Ind Year(5%)Ind Year(5%)Vertrester</td><td>Name of C&amp;RD Block: DALU         Project Area: 500 Ha           Activities         Ist Year(5%)         Ilnd Year(5%)         Ilnd Year(5%)         Ilnd Year(5%)         Ilnd Year(5%)         Ver         Ver</td></td></td<>	Name of C&RD Block:- DALUProject Area : 500 HaActivitiesIstIIndIIIndIIInd $Year(6\%)$ Year(14%)Year(5%)Year(5%)Year(14%)Year(5%)12345678Administrative Cost:-10%122%5%1Honourarium of WDT Members @ Rs.8000/- month-1122%5%1no.111111110011111111011111111110211111111110311	Name of C&RD Block:- DALUProject Area : 500 HaActivitiesIstIIndVear (5%)Year (14%)Year (5%)Year (5%)IV Year2345678923456789MANAGEMENT COST:10101010Manage Cost:-10%-2%2%5%3%3%Honourarium of WDT Members @ Rs.8000/- month-1-0.960.960.960.96Honourarium of WAtershed Committee Chairman-0.010.060.960.96@500/ month0.010.060.960.96Honourarium of WCM @ Rs. 200/Members/month for 9 nos0.010.010.060.116Hiring charges of office building @ 1000/ month0.010.600.60Hiring charges of vehicle @ 5000/ month0.1740.010.60Office expenses, POL, Stationeries, Printing of SHG's books, pamphlets, tea, snacks ets, cost of camera2%1.04-Office expenses, POL, Stationeries, Printing of SHG's Books, pamphlets, tea, snacks ets, cost of cameraOffice expenses, POL, Stationeries, Printing of SHG's Books, pamphlets, tea, snacks ets, cost of camera </td <td>Name of C&amp;RD Block:- DALU         Project Area : 500 Ha           Activities         Ist         Hard         Ist         Ist         Hard         Ist         Hard         Ist         Hard         Hard         Ist         Hard         Hard&lt;</td> <td>Name of C&amp;RD Block:- DALU         First rest of the sector of the s</td> <td>Name of C&amp;RD Block:- DALUProject Area: 500 HatActivitiesIst Year(5%)Ind Year(4%)Ind Year(5%)Ind Year(5%)Ind Year(5%)Ind Year(5%)Vertrester</td> <td>Name of C&amp;RD Block: DALU         Project Area: 500 Ha           Activities         Ist Year(5%)         Ilnd Year(5%)         Ilnd Year(5%)         Ilnd Year(5%)         Ilnd Year(5%)         Ver         Ver</td>	Name of C&RD Block:- DALU         Project Area : 500 Ha           Activities         Ist         Hard         Ist         Ist         Hard         Ist         Hard         Ist         Hard         Hard         Ist         Hard         Hard<	Name of C&RD Block:- DALU         First rest of the sector of the s	Name of C&RD Block:- DALUProject Area: 500 HatActivitiesIst Year(5%)Ind Year(4%)Ind Year(5%)Ind Year(5%)Ind Year(5%)Ind Year(5%)Vertrester	Name of C&RD Block: DALU         Project Area: 500 Ha           Activities         Ist Year(5%)         Ilnd Year(5%)         Ilnd Year(5%)         Ilnd Year(5%)         Ilnd Year(5%)         Ver         Ver

1		2		_	6	-	0	0	10		10	10	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14
с	Institution & Capacity Building : - 5%	1%		2%		1%		1%				5%	
i	Awareness Campaign & Capacity building of farmer	1	0.20	1	0.20	1	0.20	1 /0				3	0.60
ii	Exposure visits - Off Campus	1	0.35	1	0.30	1	0.35					3	1.00
iii	Capacity building of SHG's/UG's.	1	0.20	3	0.60	1	0.20	1	0.35			6	1.35
iv	Capacity building of WC Members.		0.20	1	0.20	-	0.20	1	0.20			2	0.40
v	Capacity building of WDT/WV			1	0.20			1	0.20			2	0.40
	Total of C:		0.75		1.50		0.75		0.75				3.75
D	Detailed Project Report: 1%		1%										
i	Cost of Resources Inventories works		0.25										0.25
ii	Cost of PRA Exercises		0.10										0.10
iii	Cost of Land use Survey works		0.25										0.25
iv	Cost of formulating		0.15										0.15
	Total of D:		0.75										0.75
Ε	Monitoring & Evaluatio: 2%												
i	Cost of Monitoring			0.2%	0.15	0.5%	0.375	0.3%	0.225			1%	0.75
ii	Cost of Evaluation			0.3%	0.225	0.5%	0.375	0.2%	0.15			1%	0.75
	Total of E:				0.375		0.75		0.375				1.50
	TOTAL OF I (A - E)		4.50		3.375		5.25		3.375				16.50
II	PROJECT COST WATERSHED WORKS PHASE: 50%												
Α	Arable Land Treatment:												
i	Wet terrace@20,000/-Ha(15 Ha)			5	1.00	10	2.00					15	3.00
ii	Rubber plantation- 65 ha												µ
	(a) Pre-works & 1st yr. planting @Rs.5900/ha			15	0.885	50	2.95					65	3.835
	(b) 2 <sup>nd</sup> yr planting @Rs.2900					15	0.435	50	1.45				1.885
iii	Arecanut plantation -40 ha						_						 
	(a) Pre-works & 1st yr. planting @Rs.5900/Ha				0	40	2.36					40	2.36
	(b)2 <sup>nd</sup> yr. planting@ 2900/ha						0	40	1.160				1.160
iv	Citrus(orange) plantation -40 ha					10	0.07						2.26
	(a) Pre-works & 1st yr. planting @Rs.5900/Ha					40	2.36	40	1160				2.36
	(b)2nd yr.planting@2900/ha				4.005		0	40	1.160				1.160
D	TOTAL OF - A				1.885		10.105		3.77				15.76
В	Non-Arable Land treatment:				0	10	0.26					10	0.26
	Improvement of degraded forest @3600/10 ha				0	10	0.36					10	0.36
	Total of B:						0.36						0.36

1	2	3	4	5	6	7	8	9	10	11	12	13	14
С	Drainage Line Treatment:												
i	C.C.Check-Cum-Irrigation dam @2,50,000/ each - 75												
	На			1	2.50	2	5.00					3	7.50
ii	Stone masonery protection wall @50,000/each - 65 ha			1	0.50	3		2	1.00			4	2.00
iii	Dug-out pond @50,000/-each -15 ha			1	0.50	8	4	2	1			11	5.5
iv	Water harvesting farm pond @2,50,000/- each -84 ha					2	5.00					2	5.00
v	Earthern irrigation channel @Rs. 50 /- Rm55 ha			479	0.240	570	0.285	310	0.155			1359	0.68
vi	Earthern embankment @700/- 20 ha							100	0.7			100	0.7
	TOTAL OF C				3.74		15.785		1.855				21.38
	TOTAL OF A+B+C			7.5%	5.625	35%	26.25	7.5%	5.625			50%	37.50
D	Livelihood Activities for landless person: 10%												
i	Tailoring@8000/ unit							5	0.4			5	0.4
ii	Carpentry@ 5000/- unit							6	0.3			6	0.3
iii	Kitchen garden@ 2500/-unit- 6 Ha			30	0.75	50	1.25	72	1.8			152	3.80
iv	Dug-out pond @50,000/-each -10 ha					2	1.00	4	2.00			6	3.00
	Total of D:			1%	0.75	3%	2.25	6%	4.50			10%	7.50
Ε	Production system and Micro Enterprises (SHG's) -												
	13%												
i	Piggery unit @Rs.30,000 /- per unit			1	0.30			2	0.60			3	0.90
ii	Poultry unit @Rs.30,000 /- per unit					1	0.3	2	0.60			3	0.90
iv	Fishery cum piggery unit @25000 /- per unit							4	1			4	1.00
v	Group Rubber nursery @25000/- per plant			1800	0.45	13800	3.45	12200	3.05			27800	6.95
	Total of E:			1%	0.75	5%	3.75	7%	5.25			13%	9.75

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

	1	2	3	4	5	6	ó	7	8	9			10				11		
	S L N	Name of State	Name of Distri	Names of Project	Year of sanct	Proj dura (dd/i yyy	tion mm/	Area of the project	Projec t cost (Rs.	Names of Micro watersheds & Code nos. (as per DoLR's	А	.rea (ha) c	f the projec	ts			ea details within the	(ha) e projects)	
	0		cts	S	ion	Fro m	То	S	In lakh)	unique codification)									
-											Cultiv ated rainfe d area	Cultiv ated irrigat ed area	Uncult waste		Pvt. Agri Land	Fores t land	Com m unity land	Others (pl. specify ) Hortic ulture	Tota 1 area (ha)
													a) Tempor ary fallow	b) Per manent					
	1	Meghalay a	West Garo Hills	W.G.H IWMP -VII	2010	2010	31/3 / 2015	500	7.5	Miritchi	27.60	0	463	9.40	25	10	320	145	500

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

## Fund provision for the IWMP projects from all sources:

1	2	3	3					4						5
						Funds	from other s	sources in	n addition to	IWMP fu	inds	[		
Distric t	Name of Projects	IWMF	Fund	Converge	ence funds	P	PP	Com	nmunity		utional ance		ers (Pl. ecify)	Total
		Central Share	State Share	Name of Scheme	Amount (Lakhs)	Name of private sector	Financial contri- bution	Name	Financial contri- bution	Name	Financi al contri- bution	Name	Financia l contri- bution	
Megh alaya	W.G.H IWMP- VII	67.50	7.50	NRGES	5.6	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	80.6

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

1	2	3	4		5					6		
				Distt	. Agency's Proj	ect Account de	etails		Watershed Com	mittee (WC) acco	ount details:	
Sl. No.	Names of States	Name of Districts	Names of Projects	Name of the Bank and Branch where project account has been opened	Account Number (to be obtained confiden- tially)	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 confiden- tially	Account type (Savings/ current others)	Name & Designation of authorized persons who operate the account.
1	Megha laya	W.G.H	W.G.H IWMP- VII	Axis Bank Hawakhan a Tura	911- 0100174643 67	Current	Chairman W.C-Shri Arwith A Sangma Secretary W.C- Shri. Bistu Mohan Rabha	Miritchi Micro Watershed	Axis Bank Hawakhana Tura	911- 01001746436 7	Current	Chairman W.C-Shri Arwith A Sangma Secretary W.C- Shri. Bistu Mohan Rabha

Public-Private Partnership in the IWMP projects: NIL

1	2	3		4			5	6	7	8	9
			Тур	e of agreement	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
WCU	WGH-	NII		1	I						
WGH	WGH IWMP- VII	NIL		NIL		NIL	NIL	NIL	NIL	NIL	NIL

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

## CHAPTER VI CAPACITY BUILDING

## CHAPTER VI CAPACITY BUILDING

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

1	2	3	4	5	6	7	8			9		
		Name		Name &						Performan	ice	
S. No	Stat e	of the Trainin g Institute	Full Address with contact no., website & e-mail	Designati on of the Head of Institute	Type of Institute <sup>#</sup>	Area(s) of specialization <sup>\$</sup>	Accre- ditatio n details	Refer- ence Year	No. of training s assigne d	No. of trainees to be trained	No. of trainings conducted	No. of trainees trained
1		NIRD	Guwahati	Director	Central	Remote Sensing, Rural	NA	-	-	_	_	_
		(NER)			Govt.	Devt.						
2		SIRD	Nongsder	Director	State Govt.	Capacity Building	NA	-	-	-	-	-
3		RRTC	Umran	Director	Don-	Agri-Horti, Animal	NA					
	laya		Meghalaya		Bosco	Husbandry, Entrepreneurship		-	-	-	-	-
4	Meghalaya	ICAR/ KVIC	Umiam/Tura Meghalaya	Director	Central Govt.	Do	NA	-	-	-	-	-
5	~	MRDS	Shillong Meghalaya	Director	State Govt.	Animal Husbandry	NA	-	-	-	-	-
6		NEHU	Shillong/Tur a Meghalaya	Director	Central 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)

<sup>@</sup> 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

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	No. of persons trained during current financial		f funding for aining		s utilized akhs)
			financial year	year	a) DoLR	b) Any other (Pl. specify)	a) DoLR	b) Any other (Pl. specify)
PIAs	10	NIL	10	NIL				
WDTs	5	NIL	5	NIL				
UGs	40	NIL	40	NIL				
SHGs	50	NIL	50	NIL	2 75	NII	0.75	NII
WCs	11	NIL	11	NIL	3.75	NIL	0.75	NIL
GPs	NIL	NIL	NIL	NIL				
Community	280	NIL	150	NIL				
Others Pl. specify)								
TOTAL	396	0	266	0	3.75	0	0.75	0

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

 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.	Resources Inventories Works	S&WC (T) Division	0.25	_	_
2	Land Use Survey Works	S&WC (T) Division	0.25	_	_
3	Cost of formulating	S&WC (T) Division	0.15	_	_
				_	_
		Total	0.65	_	_

## CHAPTER VII EXPECTED OUTCOME

## CHAPTER VII EXPECTED OUTCOME

#### Table 7.1 Employment related outcomes:

SI	Name of Village				N	1 Wage em	ploym	ent					S	2 elf employ	ment	
No		No. of mandays					SC	No. ST	of benef	iciaries Women	Total	SC	No. ST	of benefi Others	iciaries Women	Total
1.	Ganipara	-	4912	-	3274	Total 8186	-	_	-	-	-	-	-	-	-	-

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
West Garo Hilla	WGH- IWMP-VII	Ganipara		Ν	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	2			3	4
Wa	iges	Trai	ning	Liv	elihoods	
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)	Total (Rs. in lakh)
3274	7.5	82	0.40	20	3.00	19.54

\* 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	Ben		y details () milies)	no. of	User Charges
Districts	projects	villages		right	right	SC	St	Others	Total	( <b>Rs.</b> )
		Ganipara	Reserved forest	FW/MFP/ T	Unspecifie d		82		82	NIL
Meghalaya	W.G.H IWMP-VII		Spring Chamber	Wd	Unspecifie d		50		50	NIL
			Check dam	Wi	Unspecifie d		62		62	NIL
			Irrigation Channel	Wi	Unspecifie d		40		40	NIL
		Total								

\* 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:**

Table 7.5.1 Details of average ground wa	ter table depth in the proj	ect areas of the Country	v: 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
		Open Well	-	-	-	-	-
Meghalaya	W.G.H IWMP-VII	Bore Well	NA	NA	NA	NA	NA
		Other (specific) Spring	NA	NA	NA	NA	NA

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

#### **Table 7.5.2 Status of Drinking water:**

1	2		3			4		5
District	Nome of the project		bility of drinki of monyhs in a	0	Qualit	ty of drinking	g water	Commente
District	Name of the project	Pre-project	Post- project	Change in availability	Pre- project	Post- project	Change in quality	Comments
Meghalaya	WGH IWMP-VII	10 months	12 months	2 months	Unsafe	Potable	Improved	Better drinking water supply

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

#### Table 7.5.3 Water Use efficiency:

1	2	3		4		
				Water savings in	cu.m.	
District	Name of the project	Name of major crop	through water saving devices <sup>\$</sup>	through water conserving agronomic practices <sup>#</sup>	Any other (pl specify)	Total
	WCU	Paddy	NA	NA	NA	NA
W.G.H	WGH IWMP-VII	Maize	NA	NA	NA	NA

\* From column no. 2, total number of States implementing the programme, from column no. 3, total no. of Districts; from column no. 4, total no. of projects, from column no. 6, practice-wise totals may be mentioned at the end of the table for the entire country.

<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		
					Pre-p	projec	et				Mi	d-term	ı				P	ost-pr	oject	
Names of the District s	Name of Projects	Name of crops		·ea a)	Aver Yie (Qtl) ha	per	Pro	Total duction Qtl)		rea a)	Yi pe	erage ield r ha Qtl)	Prod	otal uction Qtl)		rea a)	Yi per	rage eld : ha (tl)		roduction (tl)
3			Irri	Rf.	Irri	Rf.	Irr i	Rf.	Irri	Rf.	Irr i	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.
		Paddy	-	14 2.9 7	-	12	-	1715. 64	-	62. 1	-	15	-	931.5	167 .07	38	16	15	2673.1 2	570
		Maize	-	40	-	26	-	1040	-	33	-	24	-	792		33		24	-	792
W.G.H	WGH	Vegetable	-	5	-	30	-	150	-	5	-	30	-	150	6	4	36	30	216	150
	IWMP- VII	Total	-	18 7.9 7	-	68	-	2905. 64	-	10 0.1	-	69	-	1873. 5	173 .07	75	52	69	2889.1 2	1512

\* 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	3		
							Pre-p	projec	t				Mid	-term					Post-p	orojec	et	
Sl No	Names of States	Names of the	Name of Project	Name of crops		Area Yield (ha) (Qtl) per ha.		To Proc 0 (Q	n		rea a)	Yi per	rage eld ha tl)	Produ	tal action ptl)	Ar (h	rea a)	Aver Yie per (Qt	ld ha	Tot Produ (Q	ction	
•		Districts	S		I r r i	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf ·	Irri	Rf.
1	Meghalay a	West Garo	WGH IWMP-	Paddy	-	-	-	-	-	-	-	136. 6	-	15	-	204 9	197	-	15	-	2955	-
		Hills	VII	Vegetabl es	-	-	-	-	-	-	I	6	-	36	-	216	6	-	36	-	216	-
				Total	-	-	-	-	-	-	-	142. 6	-	51	-	226 5	203	-	51	-	3171	-

\* 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	7			8					
						Area (ha)		roject					Mid-	term				]	Post-p	rojec	t	
SI No	Names of States	Names of the Districts	Name of Project	Name of crops				Average Yield (Qtl) per ha.		Total Producti on (Qtl)		Area (ha)		rage eld ha tl)	Tot Produ n (Q	uctio	Are (ha		Aver Yie per (Qt	eld ha	Produ	otal uction Qtl)
			6		Irri			Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf ·	Irri	Rf.
	Meghalay	West	WGH		nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil
	a	Garo	IWMP-		nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil
		Hills	VII		nil		nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil
					nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil

Table 7.6.3 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 fodo	ler (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		
W.G.H	W.G.H IWMP-VII	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				
			Existing area tree cover (ha)			Achievement (ha)				
District	Name of project	Duration of Project	Source/Name of report	Source/Name Year of		Forest/vegetative cover area proposed to be covered under IWMP	Forest/vegetative cover area actually covered under IWMP	Change in forest/vegetative cover area		
W.G.H	W.G.H IWMP-VII	5 yrs	As per LULC	As per LULC _		10	10	10		

\* 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 a	rea under horticu	lture (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			
W.G.H	W.G.H IWMP-VII	5 yrs	As per LULC	_	119.72	145	145	145			

\* 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	dder (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		
W.G.H	W.G.H IWMP-VII	5 yrs	-	_	-	-	_	_		

\* 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	Name of	T	Pre-project			Mid-term				Demoster		
Districts	Projects	Type of Animal	No.	Yield	Income	No.	Yield	Income	No.	Yield	Income	Remarks
	W.G.H	Milch-animal	75	60 lits	0.02 /-							-
West Garo Hills	IWMP-VII	Piggery	41	1640 Kgs	2.46 /-	60	2400 Kgs	3.6	100	4000	5.2	-
		Poultry	680	1020 Kgs	2.04 /-	900	1350 Kgs	2.7	1500	2250	4.5	-
	Total for all projects		796	2720	4.52	960	3750	6.3	1600	6250	9.7	

\* 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.

1	2	3	4		5 6 7					8								
Distric	Proj	Name of	Fund required for the	Sou	irces of f	unding (R	ks.)	Actual Expenditur e incurred	No	. of be	neficiar	ies traiı	ned	No.	No. of beneficiaries taking activity		ng up	
t	ect	activity	activity (Rs.)	Project Fund	Benefi -ciary	Others (pl. specify)	Total	on activity (Rs.)	SC	ST	Othe rs	Wome n	Tot al	SC	ST	Oth ers	Wome n	Total
West Garo	WG H	Kitchen gardening	3.85	_	_	_	_	_	_	_	-	_	_	_	_	_	_	_
Hills	IW MP-	Dug out Pond	3.00	-	_	_	-	_	_	_	_	_	_	_	_	_	_	_
	VII	Tailoring	0.40	_	_	_	-	_	_	_	_	_	_	_	_	_	-	_
		Carpentry	0.30	_	_	_	_	_	I	-	_	_			-	-	_	_
		Total	7.55	_	_	_	_	_	I		_	_	I	-	I	_		_

Table 7.7.2 Details of other livelihoods created for landless people:

#### (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						
-	sons employed in the activity	Annual increase in income due to	0	Impact of livelil ration eneficiaries)	hoods programme Development forward	Any other information				
Total	Grand Total (8+9)	activity (Rs.)	Pre-project	Post-project	Pre-project	Post-project	(pl. Specify)			
-	-	-	-	-	-	-	-			
-	-	-	-	-	-	-	-			

#### Table 7.7.4 Details of other livelihoods created for farmers:

1	2	3	4		5			6			7				8	
			Fund required	Sources	of fundir	ng (Rs.) in I	Lakhs	Actual Expenditure	No. of farmers trained				No. of farmers taking up activity			
District	Project	Name of activity	for the activity (Rs.) in lakhs	Project Fund	Benefi -ciary	Others (pl. specify)	Total	incurred on activity (Rs.)	SF	MF	LF	Total	SF	MF	LF	Total
		Wet terrace	3.00	3.00	NIL	NIL	3.00	-	-	_	_	-	_	_	_	_
West Garo	WGH IWMP-	Dug-out pond	3.00	.50	NIL	NIL	3.00	-	_	-	-	-	-	-	-	_
Hills	VII	Rubber Plantation	5.71	5.71	NIL	NIL	5.71	-	_	_	_	-	_	-	-	_
		Arecanut Plantation	3.52	3.99	NIL	NIL	3.52	-	_	_	_	-	_	_	_	_
		Citrus (orange) Plantation	3.52	3.52	NIL	NIL	3.52	-	_	_	_	_	_	_	_	_
		Total	18.75	18.75	0	0	18.75	-	_	_	_	_	_	_	_	_

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

	9	10	11				12
	sons employed in the activity	Annual increase in		Impact of livelih ration eneficiaries)		of backward- linkages	
Total	Grand Total (8+9)	income due to activity (Rs.)	Pre-project	Post-project	Pre-project	Post-project	Any other information (pl. Specify)
NIL	NIL		NIL	NIL	NIL	NIL	NIL

#### **Table 7.8 Marketing related outcomes:**

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	-	1	1
		(vi) Water supply	-	5	6
		(vii) Extension services	-	-	-
		(viii) Nurseries	-	-	-
West Garo Hills	WGH-IWMP-	(ix) Tools/machinery suppliers	-	-	-
west Galo Hills	VII	(x) Price Support system	-	-	-
	V 11	(xi) Labour	-	-	-
		(xii) Any other (please specify)	-	-	-
		(A) Forward linkages	-	-	-
		(i) Harvesting/threshing machinery	-	-	-
		(ii) Storage (including cold storage)	-	-	-
		(iii) Road network	-	-	-
		(iv) Transport facilities	-	-	-
		(v) Markets / Mandis	-	-	-
		(vi) Agro and other Industries	-	-	-
		(vii) Milk and other collection centres	-	-	-
		(viii) Labour	-	-	-
		(ix) Any other (please specify)	-	-	-

**Backward-Forward linkages \*** 

\* 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	-	Lack of management	Improved	Better drinking water supply
		Ground water	structures repaired/ rejuvenated	-	-	-	-
		Quality of drin	king water		Unsafe	Better quality	-
		Availability of	drinking water	-	10 months in a year	12 months availability	-
		Increase in irri	gation potential	-	-	-	-
		Change in crop	pping/ land use pattern	-	Single-cropping	-	-
		Area under agi	icultural crop	-	-	-	-
			ler single crop	На	59.73	-	
			der double crop	-	-	-	
			der multiple crop	-	-	-	
			crop production area	На	-	-	-
			a under vegetation	На	29.22	79.22	-
1	Meghalaya		a under horticulture	На	119.72	234.72	-
1	Wieghalaya	Increase in are	a under fuel & fodder	На	444.36	494.36	-
		Increase in mil	k production	-	-	-	-
		No. of SHGs		Nos.	30 nos	30 nos	-
		Increase in no.		-	-	-	-
		Increase in inc	ome	-	-	-	-
		Migration		-	-	-	-
		No. of school g		-	-	-	-
		SHG Federatio		-	-	-	-
		Credit linkage		-	1 nos	1 nos	-
		Resource use a	·	-	-	-	-
			n & management	-	-	-	-
		Summary of le	ssons learnt		-		

#### Table 7.10 Cost effectiveness of structures/ activities\*

1	2	3	4	5	6	7	8	9
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 <sup>#</sup>
WGH	WGH- IWMP-VII	Miritchi	As per treatment plan	54.75	101.1	-	-	1:1.84

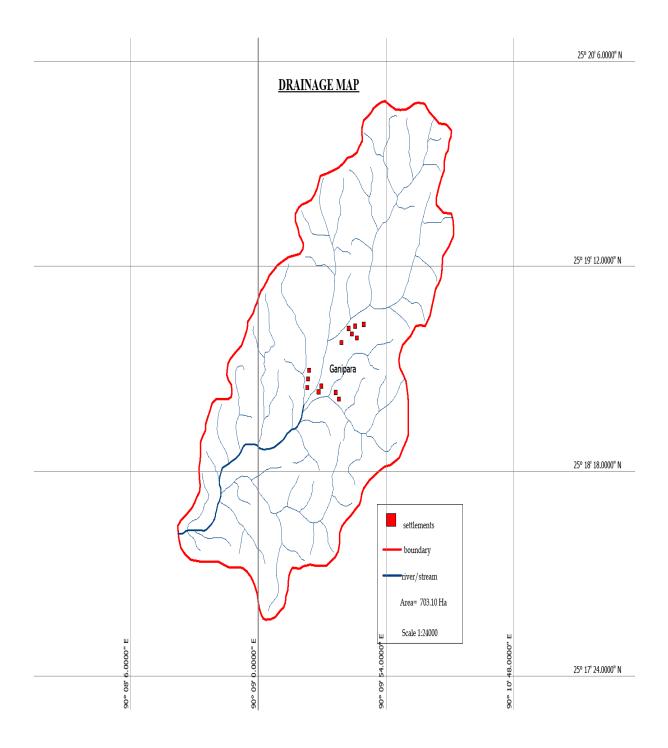
\* from column no. 2, total no. of States implementing the programme, from column no. 3, total no. of Districts; from Column no. 4, no. of projects, from column no. 5, no. of WCs, from column no. 6, no. of structures/ activities, from column no. 7 to 10, category-wise# totals, may be mentioned at the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

<sup>#</sup> B:C ratio more than 1 – cost effective

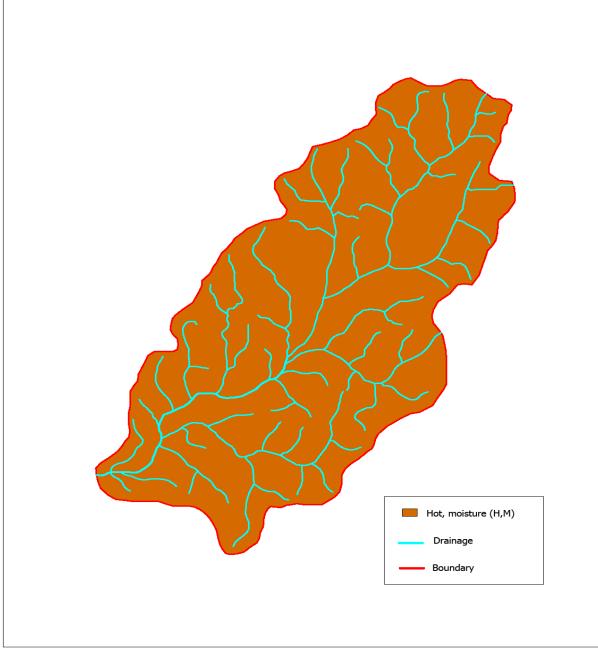
less than 1 - Not cost effective

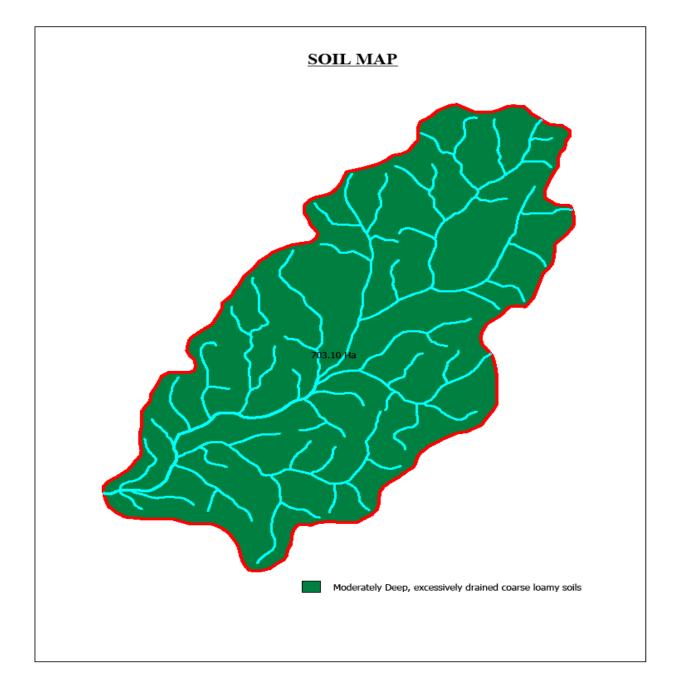
# **ANNEXTURE-II**

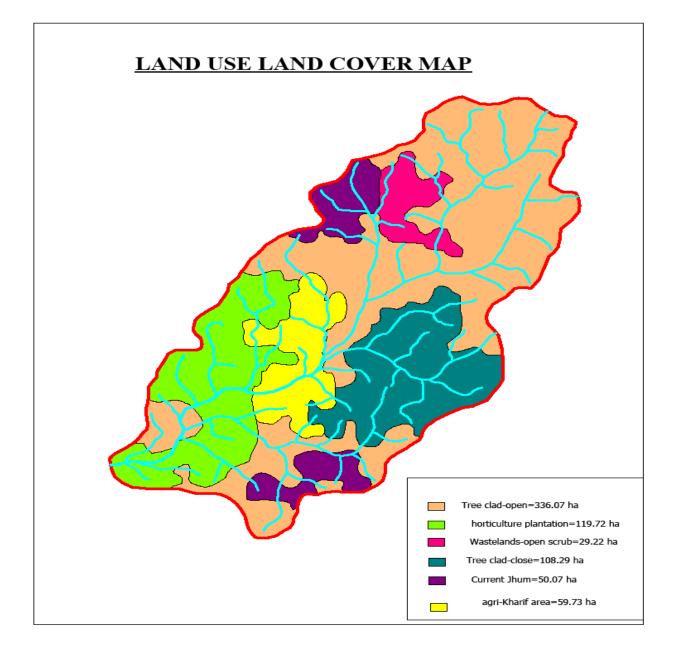
# **Socio-Economic Survey Details**

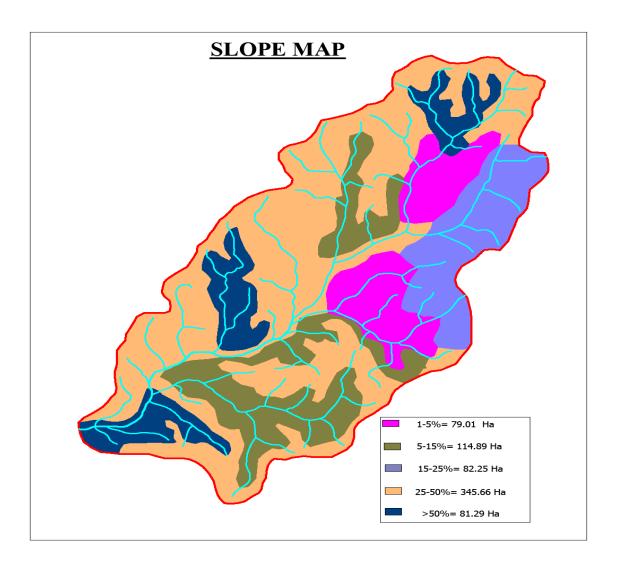


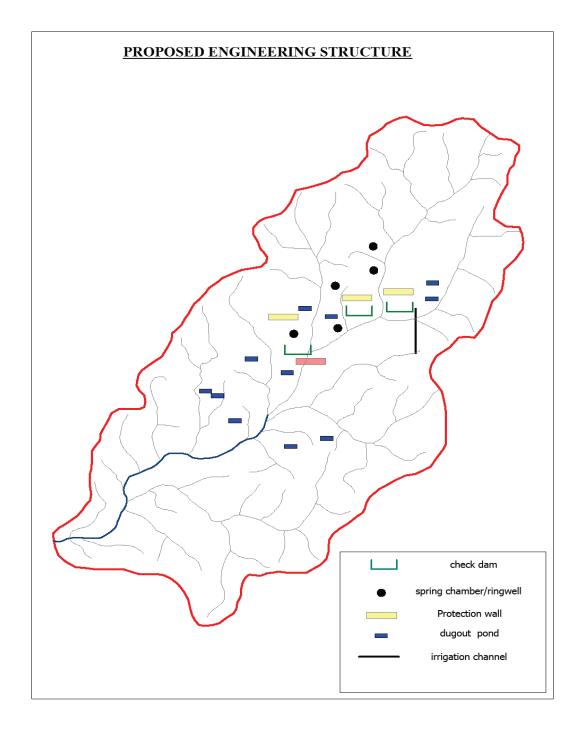
## AGROCLIMATIC ZONE MAP











Upper Dabang M/watershed

# **ANNEXTURE-II**

**Socio-Economic Survey Details** 

# SOCIO ECONOMIC SURVEY OF GANIPARA VILLAGE UNDER DALU C & RD BLOCK

					Ag	riculture			Lives	ock					
SI. No.	Name of the Head of the Family.	Male	Female	Total	Literate	Illiterate	Total	Settled (In ha.)	Jhum area (In ha).	Horticul- ture (In Ha).	Cattle	Poultry	Piggery	Goatery	Infrastructure
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1.	Shri. Rimjan sangma.	2	3	5	3	2	5	2.30	2.00	5.00	-	12	1	1	
2.	Shri. Binjamin Sangma.	3	3	6	4	2	6	1.00	1.50	2.00	2	21	-	-	
3.	Shri. Arfishton Momin.	7	3	10	6	4	10	0.50	0.80	1.60	4	8	2	2	
4.	Shri. Porenson Sangma.	6	4	10	7	3	10	0.2	0.6	2.20	-	13	-	-	
5.	Shri. Jengrin Marak.	1	2	3	2	1	3	0.50	1.70	1.50	-	10	-	3	
6.	Shri. Tender Marak.	2	5	7	4	3	7	-	1.00	2.30	3	21	2	4	
7.	Shri. Sagin Sangma.	3	2	5	3	2	5	0.2	1.50	4.40	4	9	-	-	
8.	Shri. Gresen Marak.	2	2	4	3	1	4	1.20	2.00	3.60	-	15	3	-	
9.	Shri. Densen Marak.	3	2	5	3	2	5	0.30	1.00	2.30	1	7	-	1	
10.	Shri. Captain Marak.	2	3	5	2	3	5	0.50	0.4	1.40	2	12	-	-	
11.	Shri. Arwith Sangma.	3	1	4	2	2	4	1.00	0.3	2.50	1	20	-	3	
12.	Shri. Artin Marak.	1	-	1	1	-	1	0.30	1.50	1.20	3	13	1	-	
13.	Shri. Crinson Momin.	3	3	6	4	2	6	0.75	2.00	2.30	-	5	1	4	
14.	Smti. Henolinish Marak.	-	1	1	-	1	1	0.15	1.20	1.60	-	6	1	-	
15.	Shri. Wanjang Sangma.	1	2	3	1	2	3	0.25	0.3	4.40	-	8	1	-	
16.	Shri. Wiljing Sangma.	2	2	4	3	1	4	0.70	0.5	1.35	-	11	-	5	
17.	Shri. Dominic Sangma.	3	1	4	2	2	4	1.00	0.4	1.50	2	21	-	-	
18.	Shri. Jentil Sangma.	3	2	5	3	2	5	0.75	0.7	2.20	3	13	1	2	
19.	Shri. Bidison Shira.	3	2	5	4	1	5	0.50	0.6	0.4	4	10	2	-	
20.	Shri. Molendro Marak.	3	1	4	2	2	4	1.50	0.80	1.80	-	9	-	3	
21.	Smti. Minaldine Marak.	2	2	4	3	1	4	0.50	0.4	0.5	1	14	-	-	
22.	Shri. Jasing Sangma.	3	4	7	5	2	7	0.45	1.50	0.6	2	8	-	2	
23.	Shri. Elipson Marak.	3	3	6	4	2	6	0.75	1.00	2.30	3	15	1	1	
24.	Shri. Trenal Sangma.	3	4	7	4	3	7	1.20	1.50	0.4	4	16	1	-	
25.	Shri. Milston Marak.	2	2	4	2	2	4	1.00	2.00	5.50	-	12	-	-	

26.	Shri. Jimgan Marak.	2	3	5	3	2	5	1.00	0.50	3.00	2	7	1	1	
27.	Shri. Finedin Marak.	3	7	10	8	2	10	0.25	0.4	1.50	3	8	2	2	
28.	Shri. Polbinson Marak.	5	2	7	4	3	7	0.3	0.5	1.00	10	10	-	3	
29.	Shri. Litton Marak.	4	4	8	5	3	8	1.50	0.6	1.60	-	12	-	-	
30.	Shri. Gabrel Sangma.	6	4	10	7	3	10	2.00	1.50	1.80	1	14	3	-	
31.	Shri. Silbath Marak.	2	1	3	1	2	3	1.50	1.00	1.50	-	15	-	-	
32.	Shri. Aligilstin Sangma.	2	1	3	2	1	3	0.50	1.50	2.40	-	16	-	-	
33.	Smti. Pilme Marak.	-	3	3	1	2	3	1.00	0.6	2.00	1	20	1	1	
34.	Shri. Wilindro Sangma.	3	3	6	4	2	6	2.00	1.00	0.6	2	25	-	2	
35.	Shri. Prinster Marak.	4	5	9	6	3	9	0.15	0.4	0.80	3	3	-	3	
36.	Shri. Menberth Sangma.	4	2	6	3	3	6	1.00	0.5	2.00	-	4	2	-	
37.	Shri. Rakam Marak.	3	2	5	3	2	5	0.70	1.20	2.50	-	6	-	-	
38.	Shri. Gajan Marak.	2	5	7	5	2	7	1.50	0.6	1.55	2	8	-	4	
39.	Shri. Jonster Marak.	3	4	7	4	3	7	2.30	0.4	3.00	3	3	1	-	
40.	Shri. Savio Sangma.	2	5	7	4	3	7	1.00	0.5	1.50	-	7	-	-	
41.	Shri. Ketinlith Sangma.	2	4	6	5	1	6	0.20	1.50	0.90	-	9	-	2	
42.	Smti. Sanmilla Marak.	3	4	7	5	2	7	1.55	0.6	0.6	2	5	2	4	
43.	Shri. Kalish Sangma.	3	3	6	4	2	6	1.25	0.4	2.30	-	4	1	-	
44.	Shri. Roberth Sangma.	2	3	5	3	2	5	2.00	0.5	1.50	3	10	-	-	
45.	Shri. Sicilia Marak.	1	1	2	1	1	2	1.00	0.50	4.40	-	9	-	-	
46.	Shri. Denan Sangma.	2	2	4	2	2	4	0.72	0.4	1.60	-	11	1	-	
47.	Shri. Itingson Marak.	2	1	3	1	2	3	1.75	0.6	2.40	-	13	-	-	
48.	Shri. Wilon Marak.	3	5	8	4	4	8	1.25	0.5	1.20	-	12	-	-	
49.	Shri. Hairick Sangma.	4	4	8	5	3	8	0.70	0.75	1.50	-	14	2	-	

50.	Shri. Rakseng Sangma.	2	2	4	3	1	4	3.00	0.4	40	2	16	3	-	
51.	Shri. Polster Sangma.	6	3	9	7	2	9	1.55	0.5	1.40	-	15	-	-	
52.	Shri. Galing Sangma.	3	1	4	3	1	4	2.50	0.5	1.50	-	8	-	3	
53.	Shri. Pilenson Marak.	2	3	5	4	1	5	1.00	0.5	3.00	-	6	-	-	
54.	Smti. Pliljomoti Marak.	2	1	3	2	1	3	0.55	0.5	1.50	-	7	2	-	
55.	Shri. Beltom Sangma.	2	1	3	2	1	3	0.75	0.4	2.50	-	9	1	2	
56.	Shri. Piterson Shira.	3	3	6	4	2	6	2.00	0.50	3.00	-	10	-	-	
57.	Shri. Tengwat Marak.	1	2	3	2	1	3	1.05	0.3	0.4	-	13	-	-	
58.	Shri. Labin Sangma.	1	2	3	2	1	3	1.00	0.5	2.00	-	12	1	1	
59.	Shri. Tero Marak.	1	1	2	1	1	2	1.60	0.4	0.55	2	14	-	1	
60.	Shri. Chembol Sangma.	2	1	3	2	1	3	0.11	0.42	0.37	-	16	1	-	
	TOTAL :	158	157	315	199	116	315	59.73ha		119.72ha	75	680	41	60	

# **ANNEXTURE-III**

# **COST ESTIMATES**

## MODEL NORMS PER HACTARE FOR TERRACING ( IWMP )

#### A. Technical Parameters .

Β.

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

( Rupees twenty thousand ) only .

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

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

Α.	<u>Prelimina</u> works .	ry	
		i) site clearance 3 mandays @ Rs. 100/- each ii) Pit digging ( 0.30 x 0.30 x 0.30 ) m 100 nos. @ Rs. 4/- each <b>sub - total</b>	Rs. 300.00 <u>Rs. 400.00</u> <b>Rs. 700.00</b>
В.	<u>l st year</u> Planting .		
		I) Cost of planting material 100 nos. @ Rs. 8/- each ii) Cost of planting 100 nos. @ Rs. 2/- each	Rs. 800.00 Rs. 200.00
		iii) Round weeding 4 times - 5 mandays @ Rs. 100/- each	Rs. 500.00
			Rs. 400.00
		iv) Plant protection measures 4 mandays @ Rs. 100/- each	
		Sub-tot	al Rs. 1900.00
С.	<u>II year</u> Planting .		
		i) Refilling 10%	Rs. 100.00
		ii) Round weeding - 4 times- 5 mandays @ Rs. 100/- each	Rs. 500.00
		iii) Plant protection measures - 4 mandays @ Rs. 100/- each	<u>Rs. 400.00</u>
		Sub-tot	tal Rs. 1000.00
		Grand T	otal Rs. 3600.00

(Rupees three thousand six hundred) only.

#### MODEL NORMS PER HACTARE FOR RUBBER CULTIVATION .

### *Spacing - (4.75 x 4.75) m Plant density - 450 nos.*

	Preliminary works
Α.	<u>.</u>
	i) Cost of seedling L/s Rs. 800.00
	ii) Box terracing including pit digging (0.45 x 0.45 x 0.45) mL/s
	Rs. 1350.00
	sub-total Rs. 9000.00
В.	<u>I st Year Planting .</u>
	i) Cost of Fertilisers (NPK 45:30:45) including transportation Rs. 2000.00
	ii) Cost of 2 times application ( June-July and September - October)
	14 mandays @ Rs. 100/- each Rs. 1400.00
	iii) 1st year weeding Rs. 1200.00
	Sub-total Rs. 4600.00
С.	<u>Il nd year maintenance .</u>

i) 2nd year weeding

<u>Rs. 2700.0</u>0 Sub-total Rs. 2700.00 <u>500.00</u> **1300.00** 

Grand Total Rs. 8600.00

( Rupeeseight thousand six hundred) only.

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

<sup>1</sup> /134	Excavati structur (1) Ordin Soil. A.(ii) 3m depth.	es. nary	I											
		1	x	<sup>π/</sup> 4	x	(1.20)	x	5.25		=	5.93	m³		
		1	х	π/4	x	(4.20)	x	0.30		=	4.15	m³		
	Less:	1	х	π/4	x	(1.20)	x	0.30		_=	(-)0.34	m³		
	/·\	2								=	9.74	m³		
	(i) Upto	3m.	.aep	tn. @	Rs	i.	61	/-	m³				Rs.	594.14
		1	x	8.00	x	0.50	x	0.45		=	1.80	m³		
				@	Rs	5.	47	/-	m³				Rs.	84.60
²/69	Providin includin (A) 1200 dia. Length =	g fix )mn	ting ( n	collar w										
							@	Rs.	5621	/-	m		Rs.	35131.25
³/103	Providin	g ar	nd la	ying of	dry	rubble f	loori	ng com	plete.					
		1	х	π	x	4.20	x	1.50	x 0.25	=	4.95	m³		
		1	x	8.00	х	0.20	x	0.10		_=	0.16 5.11			
							@	Rs.	1065	/-	m³		Rs.	5442.15

<sup>4</sup>/141 Plain/Reinforced c.c. in open foundation complete. (A) PCC G - M

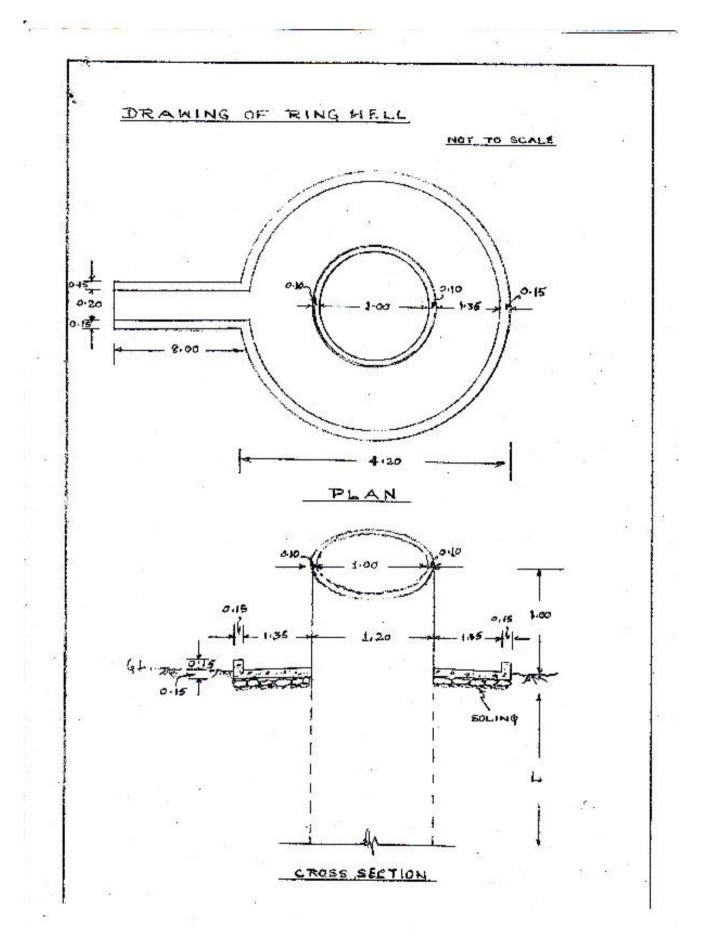
-15

	GRAND TOTAL :											60025.24
					@	Rs.	4090	/-	m³		Rs.	18773.10
									4.59	m <sup>3</sup>		
1	х	8.00	x	0.20	х	0.15		=	0.2.			
2	х	8.00	x	0.15	х	0.45		=	1.08	m³		
1	х	π	x	4.20	х	0.15 x 0	.15	=	0.30	m³		
1	х	π	х	4.20	х	1.50 x 0	.15	=	2.97	m³		

**GRAND TOTAL :** 

60,000/-Say Rs.

(Rupees Sixty Thousand) only.



#### ESTIMATE FOR THE CONSTRUCTION OF C.C CHECK DAM.

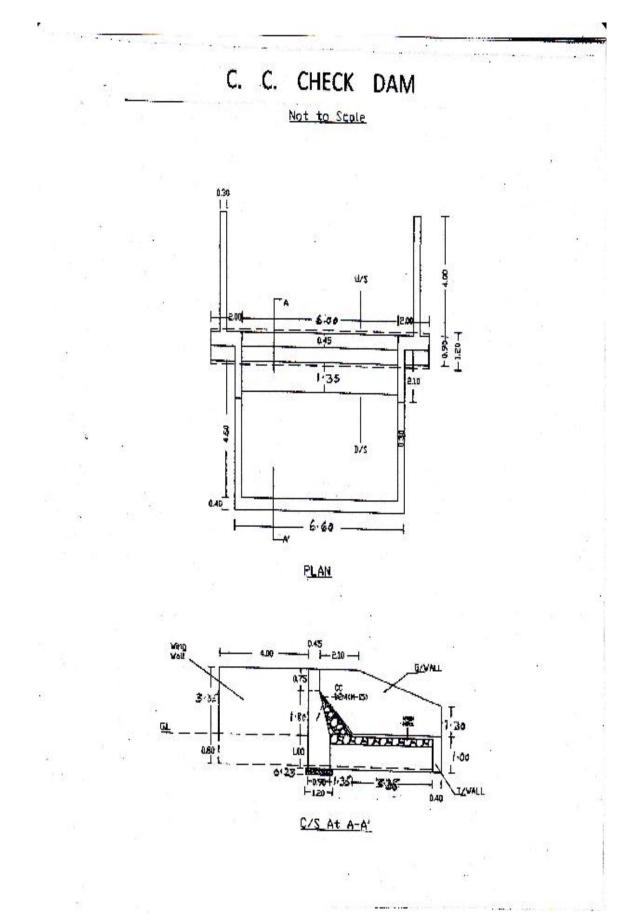
-	d as per P.W.D ar 2009-2010 )	., Schedule of rates for roads,	bridge	s and E & D wc	orks for								
1/134.	(I)Ordinary soi A. Manual me	Excavation for structures. (I)Ordinary soil. A. Manual means. (i)Upto 3.00m depth.											
	G/wall : W/wall : T/wall :	1 x 10.00 x 1.20 x 1.25 2 x 4.60 x 0.50 x 0.80 2 x 4.00 x 0.50 x 0.80 1 x 6.60 x 0.60 x 1.00 1 x 4.60 x 6.00 x 0.45	=										
		@ Rs. 47/- m <sup>3</sup>			Rs. 1798.22								
2/137.	Providing c.c.	work in 1:3:6 foundation etc.											
	M/dam :	1 x 10.00 x 1.20 x 0.23	=	2.76m <sup>3</sup>									
		@ Rs. 3571/- m <sup>3</sup>			Rs. 9855.96								
3/141(a).	Plain/ reinford												
	M/dam:	1 x 10.00 x 0.90 x 1.00 1 x 10.00 x <u>0.45 + 0.90</u> x 1.80 2		9.00m <sup>3</sup> 12.15m <sup>3</sup>									
		2 x 2.00 x 0.45 x 0.75	=	1.35m <sup>3</sup>									
	G/wall :	2 x 4.60 x 0.30 x 0.80 2 x 5.45 x 0.30 x 2.55	=	2.21m <sup>3</sup> 8.33m <sup>3</sup>									
	Less :	2 x ½ x 3.20 x 0.30 x 1.35	= (-)	1.30m <sup>3</sup>									
	W/wall:	2 x 4.00 x 0.30 x 3.35	=	8.04m <sup>3</sup>									
	T/wall :	1 x 6.60 x 0.40 x 1.00	=	2.64m <sup>3</sup>									
	Apron :	1 x 6.15 x 6.00 x 0.15	=	5.54m <sup>3</sup>									
			=	47.96m <sup>3</sup>									
		@ Rs. 4090/- m <sup>3</sup>			Rs. 196156.40								

4/140(b). Stone masonry work in cement mortar 1:3 etc. complete.

Apron :	1 x 4.60 x 6.00 x 0.30 1 x ½ x 1.80 x 6.00 x 1.80	= 8.28m <sup>3</sup> = 9.72m <sup>3</sup>	
Less :	1 x ½ x 0.45 x 6.00 x 1.80	= (-) 2.43m <sup>3</sup>	
		= 15.57m <sup>3</sup>	
	@ Rs. 2714/- m <sup>3</sup>		Rs. 42256.98
		GRAND TOTAL =	Rs. 250067.56

Say, Rs. 2,50,000.00

(Rupees Two lakh fifty thousand ) only.



# ESTIMATE FOR THE CONSTRUCTION OF C.C. CORE WALL WITH EARTH FILLED DAM ( EARTHEN EMBANKMENT ) FOR WATER HARVESTING STRUCTURES.

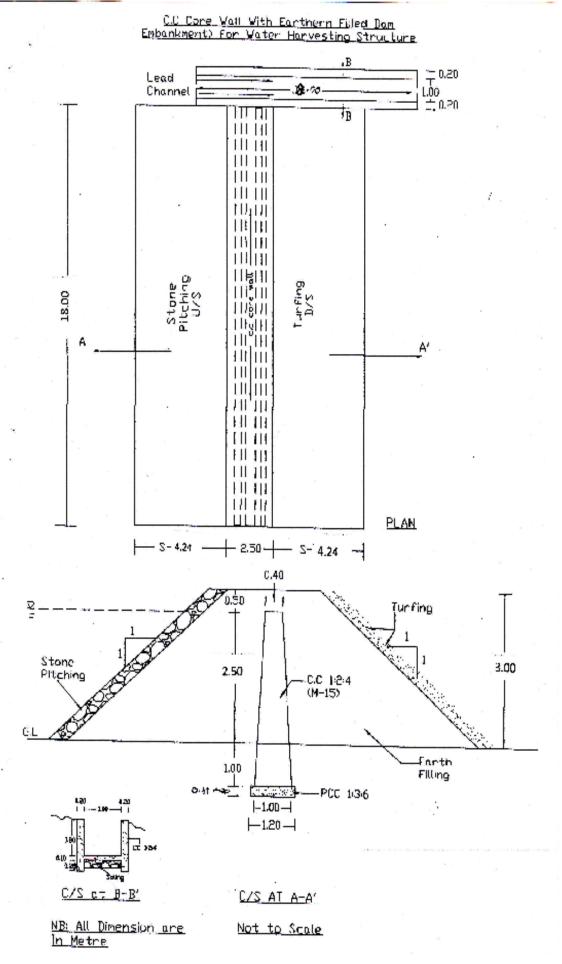
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(Rates as per P.W.D S.O.R for Roads, Bridges and E & D Works 2009-2010).

1/134.	Excavation fo (I) Ordinary s (A) Manual N (i) Upto 3m d	oil. ⁄Ieans.		
	Core wall :	1 x 18.00 x 1.20 x 1.25	$= 27.00 \text{m}^3$	
	L/Channel :	1 x 8.00 x 1.40 x 1.10	= 12.32m <sup>3</sup>	
			$= 39.32 \text{m}^3$	
		@ Rs. 47/- m <sup>3</sup>		Rs. 1848.04
2/137.	P.C.C 1:3:6 ii	n foundationetc.		
	Core wall :	1 x 18.00 x 1.20 x 0.11	$= 2.38 m^3$	
		@ Rs. 3571/- m <sup>3</sup>		Rs. 8498.98
3/141.	Plain/reinfor (A) P.C.C M-	ced c.c in open foundation complete. 15.		
	Core wall :	1 x 18.00 x <u>0.40 + 1.00</u> x 3.50 2	= 44.10m <sup>3</sup>	
	L/channel :	2 x 8.00 x 0.20 x 1.15 1 x 8.00 x 1.00 x 0.10	= 3.68m <sup>3</sup> = 0.80m <sup>3</sup> = 48.58m <sup>3</sup>	
		@ Rs. 4090/- m <sup>3</sup>		Rs. 198692.20

4/28.	Construction	of embankment.		
	Dam :	1 x 18.00 x <u>2.50 + 8.50</u> x 3.00 2	= 297.00m <sup>3</sup>	
	Less :	1 x 18.00 x <u>0.40 + 0.80</u> x 2.50 2	= (-) 27.00m <sup>3</sup>	
		Z	= 270.00m <sup>3</sup>	
		@ Rs. 71/- m <sup>3</sup>		Rs. 19170.00
5/100(I).	Providing and on slopeet (I) Stone /bou Dam U/S :			
	Dani 075 .	1 x 18.00 x 4.24 x 0.20	= 15.26m <sup>3</sup>	
	L/Channel :	1 x 8.00 x 1.00 x 0.20	$= 1.60 m^3$	
			= 16.86m <sup>3</sup>	
		@ Rs. 1086/- m <sup>3</sup>		Rs. 18309.96
6/37.	Turfing with	sods.		
	Dam D/S :	1 x 18.00 x 4.24	= 76.32m <sup>2</sup>	
		@ Rs. 46/- m <sup>2</sup>		Rs. 3510.72
			GRAND TOTAL =	Rs. 250029.90
			Say, Rs. 2,50,000.00	

( Rupees Two lakh fifty thousand ) only.



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### ESTIMATE FOR THE CONSTRUCTION OF DUG OUT POND.

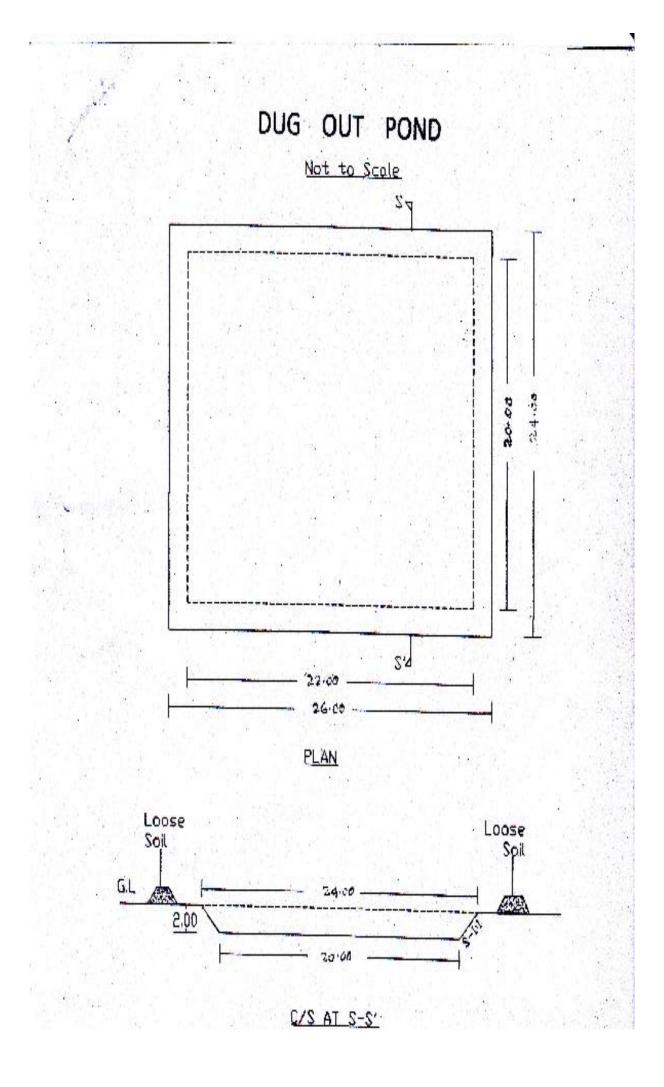
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(Rates as per P.W.D S.O.R for Roads, Bridges and E & D Works 2009-2010).

1/30(i).	Excavation	n in cutting in soil by manual means.		
	Dug out P	ond :		
	Vol: <u>D</u> ( 6	(26.00 x 24.00) + 4 (24.00 x 22.00) + (2	2.00 x 20.00 )	
	= <u>2</u>	2 <u>.00</u> ( 624.00 ) + ( 2112.00 ) + ( 440.00 ) 6		
	= <u>2</u>	2 <u>.00</u> ( 3176.00 ) 6		
	= 1	L058.67m <sup>3</sup>		
		@ Rs. 47/- m <sup>3</sup>		Rs. 49757.49
2/44(i).	Surface dr (A) Manua	rains in soil. al Means.		
	Length :	10.00 metres.		
		@ Rs. 25/- m <sup>3</sup>		Rs. 250.00
			GRAND TOTAL =	Rs. 50007.49
			Say, Rs. 50,000.00	

(Rupees Fifty thousand) only



# ESTIMATE FOR THE CONSTRUCTION OF STONE MASONRY PROTECTION WALL.

(Rates as per P.W.D S.O.R for Roads, Bridges and E & D Works 2009-2010).

1/134. Excavation for structures. (I) Ordinary soil. (A) Manual Means. (i) Upto 3m depth. 1 x 10.00 x 1.35 x ½ (1.10 + 0.60) = 11.48m<sup>3</sup>

1 x 10.00 x ½ x 1.35 x 0.38	$= 2.57 m^3$
	$= 14.05 m^3$

@ Rs. 47/- m<sup>3</sup>

2/137. P.C.C 1:3:6 in foundation.....etc.

 $1 \times 10.00 \times 1.35 \times 0.10 = 1.35 \text{m}^3$ 

.....

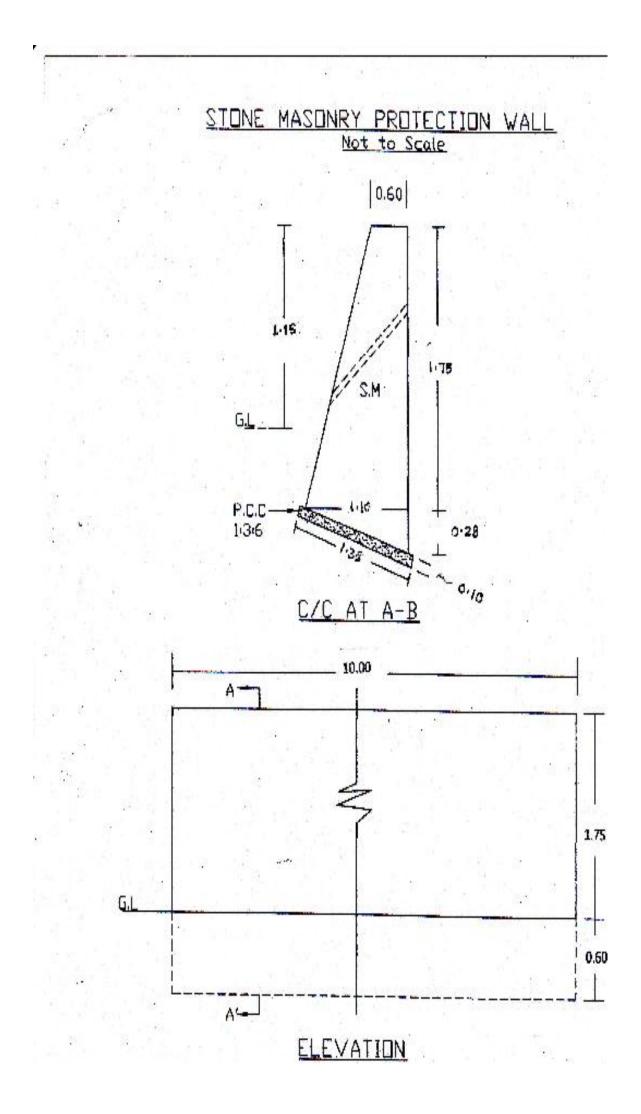
3/140(b). Stone masonry works in cement mortar 1:3 etc.

	= 16.42m <sup>3</sup>
1 x 10.00 x ½ x 1.10 x 0.28	= 1.54m
2 1 x 10 00 x 1/ x 1 10 x 0 28	= 1.54m <sup>3</sup>
1 x 10.00 x <u>0.60 + 1.10</u> x 1.75	$= 14.88 \text{m}^3$

@ Rs. 2714/- m <sup>3</sup>		Rs. 44563.88	
	GRAND TOTAL =	Rs. 50045.08	
	Say, Rs. 50,000.00		

(Rupees Fifty thousand) only.

Rs. 660.35



# **ANNEXTURE-IV**

**MoA,Sub Committee Details Etc** 

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BANJAY GOYAL, IAS DISTICT MAGISTRATE WEST GARO HILLS DISTRICT, TURA, MEGRALAYA- 794001

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Phone: 03651-223835(O), 223826(R) Fax: 03651-221179, 222226 e-mail: sanjaygoyal\_ias@yaboo.com

## TO WHOM IT MAY CONCERN

This is to certify that centrally sponsored schemes like NREGS, BRGF, RKVY, NRHS and Total Sanitation Campaign etc can be convered with Watershed Projects/Programmee within West Gato Hills District.

Dared : <u>Tura</u> The 14<sup>th</sup> April, 2011.



10 (Sanjay Goyal) Deputy Commissionet, West Garo Hills Dist, Tura.

## tails of Convergence of IWMP with other Schemes: ne of Villages:

ipara
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	1	2	3	4	5			6	7					
					Name of activity/task/structure undertaken with converged funds									
NO.	District	Names of projects	Names of Departments with Schemes converging with IWMP	Fund made available to IWMP due to convergence (Rs. in lakh)	(a) Structures (b)Livelihoods (C)Any other (pl specify)	Nos/Rmt/Ha	Amount(Rs)	Reference no. of activity/ task/ structure in DPR <sup>@</sup>	Level a which decision converge was tak					
					a)Dugout pond	11 Nos	550000	)						
					b)Stone masonry protection wall	13 Nos	650000							
					c) Water harvesting farm pond	2 Nos	500000	Enclosure of						
	WGH									d) C.C Check cum Irrigation dam	1 Nos	250000	Abstract of Perspective	
		WGH- IWMP-VII	West Garo Hils	3087200	West Garo Hils,	e) Earthen irrigation channel	633.6 Rmt	31680	Plan for Convergence	for Distric gence Level				
·						f) Wet terrace	10 Ha	10 Ha 150000	of					
								g)Rubber Plantation	60 Ha	408000	NREGs with IWMP in DPR			
					h) Arecanut Plantation	35 Ha	254000							
					i) Citrus (orange) Plantation	40 Ha	293520							
				Grand Total			3087200							

nd Total: Thirty lakhs eighty seven thousand and two hundred only.

osed: Abstract of Perspective Plan for Convergence of NREGS with IWMP.

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PERSPECTIVE PLAN FOR CONVERGENCE OF NREGS V
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UNDER MIRITCHI MICRO-WATERSHED, WGH-IWMP-VII

Name of the Village: Ganipara

Total No. of Job Card Holder: 54 Nos.

Amount earmarked for Convergence per annum Total Wages Component (@Rs. 117/- per m/days н

631800.00 631800.00

Rs Rs

SL.No Ø O ω N Arecanut plantation: Dugout pond @50000/- per No. Stone masoury protection wall @50000 per No Rubber plantation: Wet-terrace @15000/- per ha Earthen irrigation channel @50/- per rmt Water harvesting farm pond @250000/- per No (ii)Weeding @2000/- ha Citrus (Orange) plantation C.C.Check-cum-irrigation dam @250000/- per (ii)Weeding @2000/- ha (i)Planting @2400/- per ha (ii)Weeding @2000/- ha (i)Planting @1800/- per ha i)plantation@2338/-ha Grand Total ACTIVITY UNIT Ha Nos 낢 На Нa Emt Ha 뵤 Ha Nos Nos Nos PHY σ σı 136 <u>\_\_</u> 01 Wages 250000 631800 150000 75000 6800 150000 ,2011-12 FIN material (Rupees Six lakh thirty one thousand eight hundred) only 200000 100000 100000 160.8 30 PHY 20 5 20 4 20 30 J \_ Wages Material 631800 120000 54000 60000 40000 48000 46760 75000 8040 150000 2012-13 FIN PHY FIN PROJECT PERIOD 100000 80000 300.8 N 43 15 88 20 35 പ Wages Material 80000 631800 40000 46760 150000 120000 60000 36000 70000 54000 15040 2013-14 40000 PHY N 8 33 හ ജ ω Wages 631800 150000 120000 80000 70000 60000 150000 2014-15 1800 ۶I Material 100000 40000 633.6 РНҮ 40 40 35 60 60 35 10 -N 3 1 Wages 2527200 560000 300000 200000 84000 170000 93520 108000 390000 550000 31680 300000 150000 150000 Total ۳IZ Material 260000 , , i. 2 100000 200000 i. be Generated Mandays to 21600 1709 923 2564 3333 4701 1453 1282 800 718 2564 271 1282

DatuBlock(WGHS) Date Dev. Ploca Ganipara VEANSDara V.E.C. V. a Garo Huis

Jempan March President President

Ganpara VEC Sectorary Daly Block WGH Thears V.**S.C.** MONDERS Control New Block Jet Sur Jarpa

Grand Total (Rupees Thirty lakh eighty seven thousand and two hundred) only

Grand Total 11

Rs.

3087200.00 560000.00

Material Components: Rs.

2  $\rightarrow$ 

Wages Component:

2527200.00

Amount allocated for convergence for the period 2011-12 to 2014-15

# NO OBJECTION CERTIFICATE OF THE AKING NOKMA FOR MIRITCHI MICRO WATERSHED DEVELOPMENT PROJECT TO BE TAKEN UP UNDER I.W.M.P.IV PROJECT BY TURA SOIL & WATER CONSERVATION (T) DIVISION

The A'king Nokma of Ganipara village under Miritchi Micro Watershed Project WGH-IWMP-IV has No Objection to the Entry Point Activity (EPA) to be undertaking in my A'king land by Soil & Water Conservation Department.

The villagers of Ganipara A'king Land are ready to accept the Development Scheme after clear understanding of the objectives and the activities proposed under the project to be implemented in our Watershed area.

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

Name & Signature of A'king Nokma

Pa. R.D. Sangma Nokma II-17 (14) Ganipara A-king West Garo Hills.

### AGREEMENT FOR CONVERGENCE OF SCHEME

The Village Employment Councils (VEC) and the Communities of Ganipara Villages, Dalu Blocks, West Garo Hills, Meghalaya have no objection to the Convergence of NREGS with Integrated Management Project (IWMP) at Ganipara village under Miritchi Micro-Watershed, WGH-IWMP-VII being implemented by Tura Soil & Water Conservation (T) Division.

We also agreed to allocated and commit Funds for wage as well as material component under NREGS in our Annual Work Plan for various Soil &Water Conservation Works which shall be taken up during the Project Period (2010-11 to 2013-14). The wage and material component under NREGS shall be utilised for following works:

1. Dugout Pond

2. Wet Terrace

3. C.C. Check Cum Irrigation Dam

4. Areca nut Plantation

5. Earthen Irrigation Channel

6.Water Harvesting Farm Pond

7. Rubber Plantation

8.Stone Masonry Protection Wall

9.Citrus (Orange) Plantation

Jimgan Marrak President, President

Village Employment Council and V.E.C. Ganiparn G Pikkers Data Dev. Block Dalu Block, WGH Vist Garo Hur

Rak Sing Sargua Secretary

Village Employment, Council Gampana REGS, Dahn Dav, Bock Dalu Block, WGHest, Gampana