# **GOVERNMENT OF MEGHALAYA**



## **DEPARTMENT OF SOIL & WATER CONSERVATION**

# DETAILED PROJECT REPORT OF DALMI MICRO WATERSHED UNDER INTEGRATED WATERSHED MANAGEMENT PROGRAMME

IWMP - VII 2010 - 2011



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

# **SUMMARY**

Name of the Sate	:	Meghalaya
Name of the District	:	West Garo Hills District
Name of the C&RD Block	:	Dalu
Name of the Village	:	Onthapara
Name of the Project	:	West GaroHills – IWMP – II
Total Geographical Area	:	657.6 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 Dalmi (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 Dalmi Stream and its tributaries flowing in a south-west direction. The total area is 657.6 Ha. with 500 to be treated under the Integrated Watershed Management Programme (IWMP).

The Project area is located at a distance of about 12 km from Dalu the C&RD Block Headquarter and about 48 km from Tura the District Head Quarter. Only one village (Onthapara) 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 657.6 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 Dalmi 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** 

## CHAPTER II BASIC INFORMATION OF THE PROJECT AREA

## 2.1 Location:

The Project area is at West Garo Hills. It falls under Dalu C&RD Block of Tura Civil Sub-Division, West Garo Hills District. It is situated at a distance of about 12 km from Dalu the C&RD Block Headquarter and about 48 km from Tura the Districtl Head Quarter. The geographical location is between 90°10'21.000" to 90°12'19.8000" E Longitude and 25°18'39.6000" to 25°15'41.4000" N Latitude. There is only one village (Onthapara) within the Watershed.

#### 2.2 Physiography:

The physiography of the micro-watershed is highly undulating. The altitude ranges from a minimum of 150 m to a high of 300 m above mean sea level. In the lower reaches (valley lands) the slope ranges from 1 % to 5 %, however, in the middle and upper reaches it is greater than 50 %, and can reach up to 50 %.

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

Elevation (metres)	Slope Range (%)		Major streams	Topography
150-300	1% - 50%	2 <sup>nd</sup> order -Micro Watershed	Dalmi Stream	Gentle Slope

#### 2.3 Drainage:

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

#### 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 of	erosion:			
			<b>XX</b> 7 (	А	Sheet			
		West	West Garo	В	Rill	500		
1	Meghalaya	Garo	Hills –	С	Gully			
		Hills	IWMP II	Sub	Sub total			
				Wind e	erosion	Nil	Nil	Nil

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

#### 2.5 Climate:

The Watershed lies under Central Hyper-thermic Agro-climatic plateau. The average annual rainfall is about 3600mm. Monsoon normally starts in the middle of May and last till middle of October. About 80% of the total annual rainfall is received from June to September. May and June are the hottest month recording average maximum temperature of 32°C. December and January accounts for lowest of 10°C to 12°C.

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

1	2	3	4	5	6	7		8	9											
		Name of the		Names	Names of	Major soil types		Average annual rainfall in	Major ci	rops										
Sl. No	Name of State	Agro		of the district s	the	a) Type	b) Are a (ha)	(preceding 5 years' average)	a) Name	b) Area (ha)										
									Paddy	43										
																			Maize	15
		Central			West		- 500 Ha 3040 m		Ginger	20										
1	Meghal aya	Hyper- thermi c plateau 150-	500 Ha	West Garo Hills	Garo Hills – IWMP – VII			3040 mm												
		300 m																		
								Total		78 Ha										

**2.5 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, ginger, 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 Dalmi 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.	<b>Total Production (Qtl.)</b>
Paddy	43	20	860
Maize	15	15	225
Ginger	20	40	800

#### Table 2.4: Crop yield and production

#### 2.6 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.

#### **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 378, of which 175 are male and 203 are female. The detail of the household in each of the villages in the watershed project is as follows:

(i) Onthapara

378 Nos

- 2.1.1 *Roads:* All the villages within the Project Area are not connected by road. The Project area depends entirely on the kutcha road.
- 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* : 20% Households have the connection and some are yet to be connected.
- 2.1.4 *Health* : There is no Community Health Centre or sub-centre and the local population have to either depends on facility availability at Dalu Dispensary at a distance of 12 km.
- 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 no any market under this project area but the people of this watershed area sell their products at dalu-Barengapara weekly market 5 km away from the watershed area.

1	2		3	4				
Name of District	Name of Project		Parameters:	Status				
		(i)	Whether connected to the main road by an all weather road		NI			
		(ii)	No. of households without electricity		20 9	%		
		(iii)	No. of households without access to drinking water		NI			
		(iv)	No. of educational institutions:	(P)	(S)	(HS)	(VI)	
			Primary (P)/ Secondary (S)/ Higher Secondary (HS)/ Vocational institution (VI)	1 U.P & 1 L.P	NIL	NIL	NIL	
		(v)	Distance of project village from nearest Primary Health Centre		5 ki	n		
		(vi)	Distance of project village from nearest Veterinary Dispensary	5 km				
WGH	WGH- IWMP-	(vii)	Distance of project village from nearest Post Office	5 km				
	VII	(viii)	Distance of project village from nearest Banks	5 km				
		(ix)	Distance of project village from nearest Markets/ mandis		5 km			
		(x) Distance of project village from nearest Agro- Industries		NIL				
	(xi)		Total quantity of surplus milk		NI			
		(xii)			(S)	(PA)	(0)	
			(e.g. Union (U)/ Society (S)/ Private agency (PA)/ Others (O))	NIL	NIL	NIL	NIL	
		(xiii)			1 No			
		(xiv)	No. of worship place		2 No	OS		
		(xv)	No. of Community Hall		NI			
		(xvi)	No. of water tanks/Ringwell/Spring chamber		NI			

 Table 2.5: Infrastructure Status.

## 2.7 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	72 nos
Poultry	1346 nos
Cattle	207 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.

## Table 2.7: Land Holding:

1	2	3	4	5		6	
Name	Name of		No. of	No. of	L	and holding (h	a)
of Distric t	the Project	Types of Farmer	household s	BPL househol ds	Irrigated	Rainfed	Total
		(i) Large(>5 Ha)					
	WGH-	(ii) Small(1-5 Ha)	15			18.30	18.30
WGH		(iii) Marginal(<1 Ha)	54			24.70	24.70
		(iv) Landless					
		Sub - Total	69			43.00	43.00

1	2	3		2	4			5		
Name	Name		A	Total A area owned/ In	rea (ha) n posses		Area	available fo	or treatm	ent (ha)
of Distri ct	of the Projects	CPR Particulars	Pvt. Pers on	Govt. (specify deptt.)	PRI	Any other (Communi ty)	Pvt. Perso n	Govt. (specify deptt.)	PRI	Any other (Commu nity)
		(i) Wasteland/ degraded land (ii) Private	106			158.75	100			10
		Agriculture Land	100							
		(iii) Orchards								
		(iv) Village woodlot								
West	WGH	(v) Forest				31.76	15			
Garo Hills	IWMP- VII	(vi) Village Ponds/ Tanks								
11115	, 11	(vii) Community								
		Buildings								
		(viii) Weekly								
		Markets								
		(ix) Permanent Markets								
		(x) Temples/ Places								
		of worship (xi) Jhum	20.7			75	20			
		Cultivation	3			15	20			71
		(xii)Permanent Cultivation	90				84			55
		(xiii) Habitation including streams								
		(xiv)Any other(Horticultural land)	75			100.36	65			80
	Total		291. 73			365.87	299			201

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

**2.8 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.

	То	tal =	657.6	На
d)	Forest-open	=	333.75	Ha
c)	Horticulture plantation	=	75.36	На
b)	Wasteland-open scrub	=	31.76	На
a)	Agricultural land-crop land-kharif crop	=	216.73	На

#### 2.9 Problems of the Area :

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

## **CHAPTER III**

# **PROJECT PLANNING & INSTITUTION BUILDING**

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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
А.	Planning	
	Cluster approach	3
	Whether technical back-stopping for the project has been arranged?	YES, i)NESAC,
	If yes, mention the name of the Institute.	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
В.	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 Hills District of Meghalaya. The Project Manager will be the Divisional Soil and Water Conservation Officer and will be assisted by an Asst. Soil & Water Conservation Officer along with WDT members in which expertise is drawn from the relevant fields for achieving smooth and successful implementation of the project.

1	2			3
Names of Districts	Names of projects			Details of PIA
		(i)	Type of organization#	Government
		(ii)	Name of organization	Soil & Water Conservation (T) Division,
West Garo Hills	W.G.H. IWMP-VII	(iii)	Designation &	Divisional Officer, Tura Soil & Water
			Address	Cons.(T) 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 Dalmi Watershed IWMP-VII was constituted with the active involvement of the villagers with strong support of the Traditional Institutions (Village Durbar/Council). Dalmi Watershed Committee has been registered under the Society Registration Act 1983.

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

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Names of the Districts	Names of projects	Names of WCs	Date of Registration as a Society (dd/mm/ yyyy)	Designa tion	M/F	SC	ST	SF	MF	LF	Land- less	UG	SHG	GP	Any other	Educa- tional ualify- cation	Function/s assigned#
	XX			President	М	-	ST									Cl – VI	A to I
West Garo	West Garo Hills	Dalmi		Secretar y	М	-	ST									P.U (Arts)	A to I
Hills	District			Member	10 M	-	ST									Cl –	Do
District	– IWMP – II			Member	1 F	-	ST									IV to X	Do
				Member													

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

- B. Planning
- D. Signing of cheques and making payments
- F. Cost Estimation
- H. Record of labour employed
- J. Any other (please specify).

## ii) Self Help Group

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

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

1	2		3				4				5			6	
Names	Names	Total	no. of reg	istered	SHGs	No. c	of men	nbers				C/ST in egory			PL in egory
of the Districts	of projects	With only Men	With only Women	With both	Total	Categories	М	F	Total	Μ	F	Total	М	F	Total
W.G. H	W.G. HIW MP	2 No			2 No	(i) Landless (ii) SF (iii) MF (iv) LF	20		20	20		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.

## Table 3.4: User Group Details

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

# CHAPTER IV PROJECT ACTIVITIES

## CHAPTER IV PROJECT ACTIVITIES

## **4.1 Preparatory Phase:**

## i) Entry Point Activities (EPA)

(Financial – Rs. in lakh)

1	2	3	4	5	6	7	8	9	10	11
Sl. No	State	District	Names of Project	Amount earmarked for EPA	Entry Point Activities planned	Estimate d cost	Expenditu re incurred	Balanc e	Expected outcome	Actual outcome
1	Meghalay a	W.G.H	W.G.H IWMP- VII	3.00 Lakh	Construction of Spring Chamber/Ring well	3.00 Lakh	_	_	_	Increase in availabili ty of drinking water

## ii) Other activities of Preparatory Phase:

1	2	3	4	5	6	7	8	9	10	11	12	13
District	Name of Projects	Initiation of village level institution	Capacity building	IEC activ ities	Baseline survey	Hydro- geologi cal survey	Identifyin g technical support agencies	Resource agree-ments	Prepar ation of DPR	Evaluati on of DPR	Any other (pleas e specif y)	Cost incurred (Rs. In lakh)
W.G.H	W.G.H IWMP- VII	<ul> <li>a) Rapport Building</li> <li>b) Community meeting</li> <li>c)Formation of</li> </ul>	<ul> <li>a) Project</li> <li>concept/roles and</li> <li>responsibility of</li> <li>W.C</li> <li>b) Concept/roles</li> <li>and responsibility of</li> <li>SHG and UG</li> <li>c) Concept/roles</li> <li>and responsibility of</li> <li>of WDT members</li> <li>d) Off-campus</li> <li>exposure trip to</li> <li>research</li> <li>Institutes/Establishe</li> <li>d farms etc.</li> </ul>	a)Pa mpl ets b)Ba nner s c)Po sters	a)Particip atory Rural Appraisals b)Socio Economic Survey	a)GPS survey b)Engi- neering Survey	a) NIRD b)SIRD c)ICAR d)NEHU	a) NOC with village headman for under-taking develop- mental works c) Agreement for convergence of NREGS scheme with IWMP with VEC.	a)Res ource invent ory works	Done		1.5

## 4.2 Watershed Works Phase:

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

1	2	3	4	5		6								7					
						Pre Proje	ect						Propo	sed Projec	t				
								Augn		/ repair o uctures	f existing	Cor	nstruction	of new stru	uctures		Tota	al 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 m <sup>3</sup>	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

				9	10							
Augr		repair of e	existing	C	onstruction	of new strue	ctures	Т	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				Propo	osed targ	get	1				Achi	eveme	nt due to	project	1		
S			Names	1 ype of	No.	0	exist	ntation/ ing recha structure	arging			n of new tructures	Total	target		entation/ re ting rechar structures			struction or rging stru		Total ach	ievement	Change in irrigated area (Col. 8-
	o. of States D	S				(ha)	No.	Area to be irrigate d (ha)	<b>E</b> (* )	NT	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	galeu	Expendi -ture incurred	
				(i)Dug out pond						11	15	5.5	11	5.5									
1	Meghala va	West Garo	WGH- IWMP-			NIL		NIL								NIL			NIL		NIL		
			VII																				
				Total for the project						11	15	5.5	11	5.5									

1	2				3			
			Major activities o	of the UGs – Ta	rgets			
Names of	Names of		Structure/ ac	tivity proposed	[	No. of UGs	Estimated	Amount of WDF to
Districts	Projects	Sl. No.	Туре	No.#	Treatment (ha)	involved	Cost	be collected (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					
			M	ajor activities of the	UGs – Achievemen	its			
	Structu	re/ activity	7	No. of UGs	Expenditure	No. of	mandays		Amount of WDF
Sl. No.	Туре	No.#	Treated Area (ha.)	involved	incurred (Rs.)	SC	ST	F	collected (Rs.)
1	C.C.Check Dam Irrigation	3	75	1	7.50		1800	1200	0.375
2	Stone Masonry Protection Wall	4	65	2	2.00		480	320	0.1
3	Irrigation Channel	1067 rmt	50	2	0.5335		407	271	0.034
Total			195	5	10.18		2687	1791	0.509

1	2	Sen men Groups (Sires) in the	3	
			Major activities of the SHG	S
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	Rubber budded Nursery	-	-
	Total		6	2.25

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

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			ceived by the tin Rs.)	SHG	Total annual	Total annual		o. of S Fradeo		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	ΙΙ	III	sanctioned by the bank(s)	federated		
8 Nos	NIL	1.60	NIL	Piggery	1.125	-	-	-	-	-	-
				Poutry	1.125	-	-	-	-	-	-
	Total	1.60	-	-	2.25	-	-	-	-	-	-

## 4.2.7 Other activities of watershed works phase:

1	2	3		4		5		6			7	8		9		10	)	1	1	12		13
District	Names of	Ridge a treatm	ent	Drainag treatm	nent	Nursery	_	Lar develoj	pment			Horticult Cash C Develop	Crop	Veteri servi	ces	Fishe develop	oment	conve	nergy	Any other speci	.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)	1.00	-	-	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. 8		1.00				4.50	54.75

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

1	2	3		4			5		6			7								8	
			Тур	e of treatm	ent	Т	ype of l	and	Executing agency			Targ	get						Acl	hievement	
District	Project		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 co in lakh W	ı)	year of completion	units (No. cu.rr	i (R	ncu s. in	rred 1 ak	l (h)	tion	Actual month & year of completion (mm/yyyy)
		C.C.Check Dam		D			Comm anity		UG/WC	3 Nos.	4.5	3	7.50		-	_	-	-	-	-	-
		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	-VII	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			<i>J</i>		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)		uction intal)	Income	e (Rs.)		Ma	ndays g	generated			No	. of benef	ficiaries	
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	415	NA	NA						100%		8000	1495	600	100 %	54	15	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		,	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		(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							
								Outcon	nes						
N	Redu	Prod	uction	Inco	ome		Ν	Aandays g	enerated			-	No. of ben	eficiaries	
Name of activitie s	ction in run off (cu.m		intal)	(R		SC	ST	Others	Women	Total	SC	ST	Others	Women	Total
	)	Pre- project	Post project	Pre- project	Post project										
Improve ment of degraded forest	NA	0					100 %	250	110	360		100%	54	15	69
							100 %					100%			
Rubber Plantatio n	NA	0	120	0	1440, 000		100 %	4200	1800	6000		100%	26	14	40
							100 %					100%			
Arecanut	NA	350	780	280,0 00	620,4 00		100 %	2400	1020	3420		100%	28	12	40
Citrus (orange)	NA						100 %	664	443	1107		100%			
TOTA L							100 %	7514	3373	10887		100 %	108	41	149

1	2	3		4		5		6	7	7
				Type of	land	Executing agency		Target	Achiev	vement
District	Tai Pig	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	$\checkmark$		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	Fisherry cum piggery unit			SHG	Private	1.00	31/3/2014	-	-
111115										
		Group rubber nursery	$\checkmark$		SHG	SHG/UG	6.9	31/3/2014	-	-
		Total					14.2		-	-

\* 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 ben	eficiaries	
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		24 00		2100	4500		20	NIL	10	30
Piggery	30,000-35,000	60,000 - 70,000		35 0		650	1000		0	NIL	30	30
Poultry	14,000-16,000	40,000 - 45,000		37 0		630	1000		0	NIL	30	30
Fishery cum piggery	NIL	55,000 - 60,000		16 0		90	250		18	NIL	7	25
Group rubber nursery	NIL	85,000 - 90,000		32 00		1300	4500		40	NIL	0	40
	Total			64 80		4770	11250		78		77	155

## 4.3 Consolidation and withdrawal phase

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

1	2	3	4	5			6				7				
						Та	rget	-		2	Achievement	-			
Names of the Districts	Names of projects	Name(s) of the villages	CPR particulars		Target area under the activity (ha)	Estimated expenditure (Rs.)	Expected no. of beneficia- ries	Estimated contri-bution to WDF (Rs.)	Area treated under the activity (ha)	Expenditure incurred (Rs.)	Actual no. of benefici- aries	No. o	of mand	lays	WDF collected (Rs.)
					(na)							SC	ST	F	
									_	_	_	_	_	_	_
									_	-	-	_	_	_	-
				Repairing					_	-	-	_	_	_	-
West Garo Hills	WGH IWMP- VII	(i)Onthapara	-	maintainance of CPR'S	ince of -	1.75	-	0.0875	_	_	_	_	_	_	_
	VII						-	_	_	_	_	_	_		
									_	-	-	-	_	_	-
CHAPTER V PROJECT PHASING & BUDGETING

#### PROJECT PHASING & BUDGETING ACTION PLAN OF DALMI WATERSHED UNDER IWMP TERRITORIAL DIVISION: TURA

	Name of District :- West Garo Hills					of Villages:							
Cl	Name of C&RD Block:- DALU	т	~*	TT	,	ect Area:5	500 Ha			T	7		
Sl. No	Activities		st ·(6%)		nd (14%)	IIIrd Ve	ar(50%)	IV Year	(25%)	V Year		Total(iı	1 lakhs)
NO		Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
1	2	3	4	5	6	7	8	9 9	10	11 11	12	13	14
1	MANAGEMENT COST:	5	-	5	0	,	0	,	10		12	15	11
Α	Administrative Cost:-10%			2%		5%		3%				10%	
i	Honourarium of WDT Members @ Rs.8000/- month-1 no.				0.96		0.96		0.96				2.88
ii	Honourarium of Watershed Committee Chairman @500/ month				0.01		0.06		0.02				0.09
iii	Honourarium of WCM @ Rs. 200/Members/month for 9 nos.				0.036		0.216		0.072				0.324
iv	Honourarium of Charter Accountant				0.15		0.15		0.15				0.45
V	TA/DA/ of Field Asst. @ 5000/- month				0.05		0.60		0.20				0.85
vi	Hiring charges of office building @ 1000/ month				0.02		0.12		0.12				0.26
vii	Hiring charges of vehicle @ 5000/ month				0.10		0.60		0.20				0.990
viii	Office expenses, POL, Stationeries, Printing of SHG's books, pamphlets, tea, snacks ets, cost of camera.				0.174		1.044		0.528				1.746
	TOTAL OF A:			2%	1.50	5%	3.75	3%	0.528			10%	7.50
	PREPARATORY PHASE: 4%												
В	Entry Point Activities:	4%											
i	Construction of Spring Chamber/Ringwell @Rs60,000/- each	5 Nos.	3.00									5	3.00
	TOTAL OF B:		3.00										3.00

1	2	3	4	5	6	7	8	9	10	11	12	13	14
C	ے Institution & Capacity Building : - 5%	1%	4	2%	0	1%	0	1%	10	11	12	5%	14
i	Awareness Campaign & Capacity building of farmer	1	0.20	1	0.20	1	0.20	170				3	0.60
ii	Exposure visits - Off Campus	1	0.35	1	0.30	1	0.35					3	1.00
iii	Capacity building of SHG's/UG's.	1	0.20	3	0.60	1	0.20	1	0.35			6	1.35
iv	Capacity building of WC Members.	1	0.20	1	0.00	1	0.20	1	0.33			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
Е	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		-										ļ
	(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												
	(a) Pre-works & 1st yr. planting @Rs.5900/Ha					40	2.36						2.36
	(b)2nd yr.planting@ 2900/ha						0	40	1.160				1.160
	TOTAL OF - A				1.885		10.105		3.77				15.76
В	Non-Arable Land treatment:												
	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 Ha			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
E	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	<b>Consolidation &amp; Exit Phase:</b>												
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	5	7	8	9			10				11		
S L N	Name of State	Name of Distri	Names of Project	Year of sanc	Proj dura (dd/i yyy	tion mm/	Area of the project	Projec t cost (Rs. In	Names of Micro watersheds & Code nos. (as per DoLR's	А	rea (ha) c	of the project	cts			ea details within the	(ha) e projects)	)
0		cts	S	tion	Fro m	То	S	lakh)	unique codification)	e ion) Cultiv ated irrigat Uncultivated								
										Cultiv ated rainfe d area Cultiv ated irrigat ed area area A)				Pvt. Agri Lan d	Fores t land	Com m unity land	Others (pl. specify )	Tota 1 area (ha)
												a) Tempor ary fallow	b) Per manen t				Hortic ulture	
1	Meghalay a	West Garo Hills	W.G.H IWMP -VII	201 0	2010	31/3 / 201 5	500	7.5	Dalmi	43.00	0	446	11.00	25	10	320	145	500

1	2	3	3					4						5
						Funds fr	om other s	ources in	n addition t	o IWMP	funds			
Distri ct	Name of Projec ts	IWMP	' Fund		rgence nds	P	PP	Com	nmunity		utional ance		ers (Pl. ecify)	Total
		Centra 1 Share	State Share	Name of Schem e	Amoun t (Lakhs )	Name of private sector	Financi al contri- bution	Nam e	Financia 1 contri- bution	Name	Financ ial contri- bution	Nam e	Financi al contri- bution	
Megh alaya	W.G. H IWMP -VII	67.50	7.50	NREG S	11.8	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	86.8

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

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

1	2	3	4		5					6		
				Distt	Agency's Proj	ect Account d	etails		Watershed Com	mittee (WC) ac	ecount details	:
SI. 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 & Designatio n of authorized persons who operate the account.	Name of Watershed Committee	Name of the Bank and Branch where project account has been opened	Account number (to be obtained 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- 010017462 976	Current	Chairma n W.C- Shri Olison Sangma Secretary W.C- Shri. Bistu Mohan Rabha	Dalmi Micro Watershe d	Axis Bank Hawakhana Tura	911- 010017462 976	Current	Chairman W.C-Shri Olison Sangma Secretary W.C- Shri. Bistu Mohan Rabha

1	2	3		4			5	6	7	8	9
			Туре	of agreement	signed		ncial bution				
	Name	Name of									
District	of project	Private Sector Partner Agency	a)MoU	b)Contract	c) Any other (pl. specify)	IWMP	Private sector	Partnership Interventions	Expected Outcomes	Actual Outcomes	Comments
WOU	WGH-										
WGH	IWMP- VII	NIL		NIL		NIL	NIL	NIL	NIL	NIL	NIL

Public-Private Partnership in the IWMP projects: NIL

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

## CHAPTER VI CAPACITY BUILDING

### CHAPTER VI CAPACITY BUILDING

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

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

1	2	3	4	5	6	7	8			9		
		Name		Name &						Performan	nce	
S. N o	Stat e	of the Trainin g Institut e	Full Address with contact no., website & e-mail	Designat ion 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 conducte d	No. of trainee s 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-Bosco	Agri-Horti, Animal	NA	_	-	_	_	_
	Meghalaya		Meghalaya			Husbandry,						
	ala					Entrepreneurship						
4	egh	ICAR/	Umiam/Tura	Director	Central	Do	NA	_	_	_	_	_
	Ň	KVIC	Meghalaya		Govt.							
5		MRDS	Shillong	Director	State Govt.	Animal Husbandry	NA	_	_	_	_	_
			Meghalaya									
6		NEHU	Shillong/Tura	Director	Central	Agri-Horti, Fruit	NA	_	_	_	_	_
			Meghalaya		Govt.	Processing						

- 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	Total no.	No. of	No. of persons to be trained	No. of persons trained during		f funding for iining		s utilized akhs)
Stakeholders	of persons	persons trained so far	during current financial year	current financial year	r 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				
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:

						1								2		
Sl	Name of				W	age empl	loyme	ent					S	elf emplo	yment	
No	Village		Ν	o. of ma	ndays			No	. of bene	ficiaries			No	. of bene	ficiaries	
		SC	ST	Others	Women	Total	SC	ST	Others	Women	Total	SC	ST	Others	Women	Total
1.	Onthapara		29,670		15,700	45,370		54		15	69		54		15	69

1	2	3	4	5	6	7	8	9	1	10
Names of the Districts	Names of Projects	Name of village	No. of persons migrating	No. of days per year of migration	Major reason(s) for migrating	Distance of destination of migration from the village (km)	Occupation during migration	Income from such occupation (Rs. in lakh)	migratio major ac	educed n identify ctivities of esponsible (b) Livelihoods
WGH	WGH- IWMP- VII	Onthapara		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	l	2			3	4
Wa	ges	Trai	ning	Live	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)
15,700	15.70	69	0.40	69	3.00	19.10

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

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

1	2	3	4	5	6			7		8
Names of	Names of the	Names of the	Particular	Nature	Period	Ben		ry detail amilies)	s (no.	User
the Districts	projects	villages	of CPR	of right			St	Othe rs	Tota l	Charges (Rs.)
		Onthapara	Reserved forest	FW/MF P/T	Unspeci fied		69		69	NIL
Meghalaya	W.G.H IWMP-VII		Spring Chamber	Wd	Unspeci fied		50		50	NIL
			Check dam	Wi	Unspeci fied		52		52	NIL
			Irrigation Channel	Wi	Unspeci fied		52		52	NIL
		Total					223		223	

\* 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	other than indicated above (please specify)

#### Table 7.5 Water related outcomes:

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

1	2	3	4	5	6	7	8
Names of Districts	Names of Projects	Sources	Pre-Project level	Mid-term project level	Post-Project level	Increase/decrease (Col. 8 – Col. 6)	Remarks
		Open Well	NA	NA	NA	NA	NA
	W.G.H	Bore Well	NA	NA	NA	NA	NA
Meghalaya	IWMP-VII	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
	Nome of the		lity of drin f monyhs ii	king water n a year)	Quality	of drinki	ng water	
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	<b>cu.m.</b>	
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
	WGH	Paddy	NA	NA	NA	
W.G.H	IWMP-VII	Maize	NA	NA	NA	

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

<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-j	proje	ect				Mi	d-teri	n				Po	ost-pr	oject	
Name s of the Distri cts	Name of Projec ts	Name of crops	Ar (h	rea a)	g Yie (Q	era e eld (tl) ha.	Pro	'otal oducti on Qtl)	Ar (h		e Y pe	erag 'ield r ha )tl)	Proc	otal luctio n Qtl)	Ar (h	ea a)	e Y per	erag ield ha tl)	Prod	otal uction Qtl)
cis			Irr i	Rf ·	Ir ri	Rf	Ir ri	Rf.	Irr i	Rf	Ir ri	Rf.	Irri	Rf.	Irr i	Rf	Irr i	Rf.	Irri	Rf.
		Paddy	-	43	-	2 0	-	860	43	10	3 6	20	15 48	200	53	32	36	20	1908	640
		Maize	-	15	-	1 5	-	225	0	15	0	15	0	225	0	15	0	15	0	225
W.G. H	WGH IWMP	Vegetable	-	8	-	2 4	-	192	8	7	3 5	24	28 0	168	10	5	35	24	350	120
	-VII																			
		Total	-	66	-	5 9	-	127 7	51	32	7 1	59	18 28	593	63	52	71	59	2258	985

\* 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	8		
							Pre-p	oroje	ct				Mid	-tern	ı			I	Post-p	oroje	ct	
SI N o.	Names of States	Names of the Distric ts	Name of Proje cts	Name of crops	Area (ha)Averag e Yield (Qtl) per ha.Total Produ (Qtl)			rea la)	Ave e Y: per (Q	ield ha	Proc 0	Total Producti Ar on (h (Qtl)		rea a)	Vield		Producti					
					Ir ri	R f.	Ir ri	Rf •	Ir ri	Rf	Ir ri	Rf.	Irr i	Rf	Irri	Rf.	Irr i	Rf.	Irr i	R f.	Irri	Rf.
1	Meghal aya	West Garo	WGH IWM	Paddy	_	_	_	_	-	I	43	I	36	_	15 48	_	53	_	36	_	190 8	_
		Hills	P-VII	Vegeta bles	_	_	_	_	-	-	8	-	35	_	28 0	_	8	_	35	_	280	_
				Total	_	_	_	_	-	_	51	-	60	_	18 28	_	61	_	71	_	218 8	_

\* 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	5			
						ł	Pre-p	roject	t				Mid-	term				P	'ost-p	roje	et	
SI N o.	Names of States	Names of the District s	Name of Proje cts	Nam e of crops		rea a)	Ave e Y (Q per	(tl)	To Pro tic (Q	duc on		rea la)	Ave e Yi per (Q	ield ha	To Proc io (Q	luct n	Ar (ha	ea ge A) Yield Pro		To Prod 0 (Q	lucti n	
					Irr i	Rf.	Irr i	Rf ·	Ir ri	Rf	Irr i	Rf.	Irr i	Rf ·	Irri	Rf	Irri	Rf.	Irr i	R f.	Irri	Rf.
	Meghala ya	West Garo	WGH IWMP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	I	-
		Hills	-VII	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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 a	rea under fod	der (ha)		Achievement (ha	a)
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	
			Existin	g area tree	cover (ha)		Achievement (ha)	
District	Name of project	Duration of Project	Source/Name of report	Year of reference	Area already under forest/vegetative cover	Forest/vegetative cover area proposed to be covered under IWMP	Forest/vegetative cover area actually covered under IWMP	Change in forest/vegetative cover area
W.G.H	W.G.H IWMP- VII	5 yrs	As per LULC	2011	40	15	15	15

\* 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 are	a under hortic	ulture (ha)	A	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	2011	75.36	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 ar	ea under fo	dder (ha)	Ac	hievement (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:

1	2	3		4			5			6		7
Names of	Name	Type of	]	Pre-pro	project Mid-term			rm	I			
the Districts	of Projects	Animal	No.	Yield	Income	No.	Yield	Income	No.	Yield	Income	Remarl
West Garo	W.G.H IWMP-	Milch-animal	207	100 lits	0.04 /-							-
Hills	VII	Piggery	72	2880	4.32 /-	90	3600 Kgs	5.4	150	5000 Kgs	6.5	-
		Poultry	1346	2019 Kgs	4 /-	1500	2250 Kgs	4.5	2000	3000 Kgs	6.00	-
	Total for all projects		1420	4999	8.36	1590	5850	9.9	2150	8000	12.5	-

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

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

1	2	3	4		:	5		6			7			8													
Dista	Pr	Name				Name of	of	of		of	Pr of	Fund requir	Sour	ces of f	unding	( <b>Rs.</b> )	Actual Expendi ture	ľ		' benef traine	iciarie d	s				eficiari activit	
Distr ict	oje ct	of activit y	ed for the activit y (Rs.)	Proje ct Fund	Bene fi - ciar y	Other s (pl. specif y)	Tota l	incurred on activity (Rs.)	S C	ST	Oth ers	Wo men	T ot al	S C	S T	Ot he rs	Wo men	Tot al									
West Garo Hills	W G H	Kitchen gardeni ng	3.85	_	_	_	_	_		_	_	_	_	I	12	_	8	20									
11115	IW M	Dug out Pond	3.00	_	_	_	_	_	_	_	_	_	_	_	9	_	4	13									
	P-	Tailorin g	0.40																								
	VII	Carpent ry	0.30																								
		Total	7.55												21		12	33									

 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		12
No of por	and amplayed			Impact of livelih	loods programm	e	
	ons employed in the activity	Annual increase in income due to	0	b. of beneficiaries) forward linkages ir		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 require	Sourc		nding (R khs	s.) in	Actual	ľ	No. of farmers No. of farm trained taking up act						
Distric t	Projec t	Name of activity	d for the activity (Rs.) in lakhs	Projec t Fund	Bene fi - ciary	Others (pl. specify )	Total	Expenditur e incurred on activity (Rs.)	SF	M F	LF	Total	SF	M F	LF	Total
West	WGH	Wet terrace	3.00	3.00	NIL	NIL	3.00	_	15	_	_	15	15	_	_	15
Garo Hills	IWMP -VII	Dug-out pond	3.00	.50	NIL	NIL	3.00	_	17	_	-	17	17	-	_	17
1 millio	V II	Rubber Plantation	5.71	5.71	NIL	NIL	5.71	_	40	_	_	40	40	_	_	40
		Arecanut Plantation	3.52	3.99	NIL	NIL	3.52	_	30	_	_	30	30	_	_	30
		Citrus (orange) Plantation	3.52	3.52	NIL	NIL	3.52									
		Total	18.75	18.75	0	0	18.7 5		10 2			102	10 2			102

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

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

	9	10		1	11		12
No. of	persons		Iı	mpact of livelih	oods program	ime	
employed indirectly in the activity		Annual increase in income due to	Migration (No. of beneficiaries)		back	pment of ward- l linkages	Any other information
Total	Grand Total (8+9)	activity (Rs.)	Pre- project	Post-project	Pre-project	Post-project	(pl. Specify)
NIL	NIL	NIL	NIL	NIL	NIL	NIL	_
NIL	NIL	NIL	NIL	NIL	NIL	NIL	_
NIL	NIL	NIL	NIL	NIL	NIL	NIL	_
NIL	NIL	NIL	NIL	NIL	NIL	NIL	_

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

#### Backward-Forward linkages \*

1	2	3	4	5	6
District	Project	Type of Marketing Facility	Pre-project (no.)	During the project (no.)	Post-project (no.)
		(A) Backward linkages	-	-	-
		(i) Seed certification	-	-	-
		(ii) Seed supply system	-	-	-
		(iii) Fertilizer supply system	-	-	-
		(iv) Pesticide supply system	-	-	-
		(v) Credit institutions	-	1	1
		(vi) Water supply	-	1	2
		(vii) Extension services	-	-	-
		(viii) Nurseries	-	-	-
West Care Hills	WCU	(ix) Tools/machinery suppliers	-	-	-
West Garo Hills	WGH-	(x) Price Support system	-	-	-
	IWMP-VII	(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	-	5	5
		(ix) Any other (please specify)	-	-	-

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

#### Table 7.9 Abstract of outcomes:

1	2	3	4	5	6	7
Sl. No.	State	Item	Unit	Pre-project Status	Post-project Status	Remarks
		Status of water table	-	Lack of management	Improved	Better drinking water
						supply
		Ground water structures repaired/ rejuvenated	-	-	-	-
		Quality of drinking water	5 nos	Unsafe	Better quality	-
		Availability of drinking water	-	10 months in a year	12 months availability	-
		Increase in irrigation potential	-	-	-	-
		Change in cropping/ land use pattern	-	Single-croping	-	-
		Area under agricultural crop	-	-	-	-
		i Area under single crop	На	216.73	-	-
1	24 1 1	ii Area under double crop	nder double crop Ha	-	-	
1	Meghalaya	iii Area under multiple crop	На	-	-	-
		Net increase in crop production area	На	-	-	-
		Increase in area under vegetation	На	31.76	81.76	-
		Increase in area under horticulture	На	75.36	190.36	-
		Increase in area under fuel & fodder	На	333.75	383.75	-
		Increase in milk production	-	-	-	-
		No. of SHGs	2 nos	20 nos	20 nos	-
		Increase in no. of livelihoods	-	-	-	-
		Increase in income	-	-	-	-
		Migration	-	-	-	-
		No. of school going children	-	-	-	-
		SHG Federations formed	-	-	-	-
		Credit linkage with banks	-	1 nos	1 nos	-
		Resource use agreements	-	-	-	-
		WDF collection & management	-	-	-	-
		Summary of lessons 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	Dalmi	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-I**

# MAPS



## AGROCLIMATIC ZONE MAP





## LAND USE LAND COVER MAP


## **SLOPE MAP**





Upper Dabang M/watershed

## PROPOSED ENGINEERING STRUCTURE

## PROPOSED LAND USE MAP



# **ANNEXTURE-III**

٠

# **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)

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

	Grand To:	tal I	Rs. 3600.0	)0
	Sub-total	1 1	Rs. 1000.00	)
iii)	Plant protection measures - 4 mandays @ Rs. 100/- each	Rs.	400.00	
ii)	Round weeding - 4 times- 5 mandays @ Rs. 100/- each	Rs.	500.00	
i)	Refilling 10%	Rs.	100.00	

(Rupees three thousand six hundred) only.

### MODEL NORMS PER HACTARE FOR RUBBER CULTIVATION .

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

Α.	<u>Preliminary works</u> <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	<u>500.00</u>
	51	ub-total Rs. 9000.00	1300.00
В.	<u>I st Year Planting .</u>		
	i) Cost of Fertilisers (NPK 45:30:45) including transporta	tion 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	
	Su	ıb-total Rs. 4600.00	
C.	<u>II nd year maintenance .</u>		
	i) 2nd year weeding	<u>Rs. 2700.0</u> 0	
	S	Sub-total Rs. 2700.00	

Grand Total Rs. 8600.00

( Rupeeseight thousand six hundred) only.

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

Α.	Piggery ;			
	i) Construction of sty @ Rs. 20000/- each		Rs.	20000.00
	ii) Cost of Piglets - 10 nos. @ Rs. 20000/- each		Rs.	20000.00
	iii) Cost of feeds for 6 months (L/s)		Rs.	10000.00
В.	Construction of Dug out Pond ( 25.00 x 25.00 ) m ( as per estimate)		Rs.	60000.00
	Supply of fingerlings -1500 nos. @ Rs.3000/- per 1000 nos.			
C.	(L/s)		Rs.	4500.00
D.	Kitchen Garden ;			
	i) Site preparation including Bunding, shaping etc.		Rs.	3500.00
	ii) cost of F.Y.M. including cost of applicaton		Rs.	4000.00
	iii) Cost of equipmqnts and tools etc.		Rs.	1500.00
	iv) Cost of seeds including sowing etc.	_	Rs.	1500.00
		G. Total	Rs.	125000.00

(Rupees one lakh twenty five thousand ) only.

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

<sup>1</sup> /134	Excavati structure (1) Ordin Soil. A.(ii) 3m depth.	es. nary	/											
		1	x	<sup>π/</sup> 4	x	(1.20)	x	5.25		=	5.93	m³		
		1	x	π/4	x	(4.20)	x	0.30		=	4.15	m³		
	Less:	1	x	π/4	x	(1.20)	х	0.30		=	(-)0.34	m³		
	/·\	2								=	9.74	m³		
	(i) Upto	3m.	.depi	th. @	Rs	5.	61	/-	m³				Rs.	594.14
		1	x	8.00	x	0.50	x	0.45		=	1.80	m³		
				@	Rs	i.	47	/-	m³				Rs.	84.60
²/69	Providin includin (A) 1200 dia. Length =	g fix )mn	cing ด า	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	x	π	x	4.20	x	1.50	x 0.25	=	4.95	m³		
		1	х	8.00	х	0.20	х	0.10			0.16 5.11	m <sup>3</sup> m <sup>3</sup>		
							@	Rs.	1065	/-	m³		Rs.	5442.15
<sup>4</sup> /1/1	Plain/Re	info	nrcer	lee in	one	n found	ation	) comp	امtم					

<sup>4</sup>/141 Plain/Reinforced c.c. in open foundation complete.

					@	Rs 40	90 /-	m <sup>3</sup>		Rs	18773 1
								4.59	m <sup>3</sup>		
1	x	8.00	x	0.20	х	0.15	=	0.24	m³		
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	5 =	0.30	m³		
1	х	π	х	4.20	х	1.50 x 0.15	5 =	2.97	m³		

@	Rs.	4090 /- r	m³	Rs.	18773.10
GRAND TO	TAL :			Rs.	60025.24
Say Rs.	60,0	00/-			
( Rupees Sixty Thousand ) onl	ly.				



### 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.	Excavation for (I)Ordinary so A. Manual me (i)Upto 3.00m	il. ans.			
	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	=	3.20m <sup>3</sup>	
			=	38.26m <sup>3</sup>	
		@ 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	cement c.c. in open foundation	n etc.		
	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
		GRAN	ID TOTAL =	Rs. 250067.56
		Say, I	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.

-----

(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 M (i) Upto 3m d	oil. Ieans.		
	Core wall :	1 x 18.00 x 1.20 x 1.25	= 27.00m <sup>3</sup>	
	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 ir	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/reinford (A) P.C.C M-2	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	= $3.68m^3$ = $0.80m^3$ = $48.58m^3$	
		@ 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>	
		2	= 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 0/3 .	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	= 1.60m <sup>3</sup>	
			= 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.



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

\_\_\_\_\_

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

1/30(i). Excavation in cutting in soil by manual means.

Dug out Pond :

Vol :  $\underline{D}(26.00 \times 24.00) + 4(24.00 \times 22.00) + (22.00 \times 20.00)$ =  $\underline{2.00}(624.00) + (2112.00) + (440.00)$ 6

= <u>2.00</u> ( 3176.00 ) 6

 $= 1058.67 \text{m}^3$ 

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

Rs. 49757.49

2/44(i).Surface drains in soil.(A) Manual 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.  $1 \times 10.00 \times 1.35 \times \frac{1}{2} (1.10 + 0.60) = 11.48 \text{m}^3$  $= 2.57 m^3$ 1 x 10.00 x ½ x 1.35 x 0.38 ----- $= 14.05 \text{m}^3$ @ Rs. 47/- m<sup>3</sup> Rs. 660.35 ..... 2/137. P.C.C 1:3:6 in foundation.....etc. = 1.35m<sup>3</sup> 1 x 10.00 x 1.35 x 0.10 @ Rs. 3571/- m<sup>3</sup> Rs. 4820.85 ..... 3/140(b). Stone masonry works in cement mortar 1:3 etc.  $1 \times 10.00 \times 0.60 + 1.10 \times 1.75 = 14.88 \text{m}^3$ 2  $= 1.54 \text{m}^3$ 1 x 10.00 x ½ x 1.10 x 0.28 ----- $= 16.42 \text{m}^3$ @ Rs. 2714/- m<sup>3</sup> Rs. 44563.88 ..... \_\_\_\_\_ GRAND TOTAL = Rs. 50045.08 Say, Rs. 50,000.00 (Rupees Fifty thousand) only.



## **ANNEXTURE-IV**

MoA, Sub Committee Details Etc.

SANJAY GOYAL, IAS DISTICT MAGISTRATE WEST GARO HILLS DISTRICT, TURA, MEGHALAYA-794001

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



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

### Details of Convergence of IWMP with other Schemes:

Name of Villages: Onthapara

	1	2	3	4		5	6	7	
			Names of		Name of activit undertaken with				
SI. No.	District	Names of projects	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 at which decision for convergence was taken <sup>s</sup>
					a)Dugout pond	18 Nos	900000		
				b)Stone masonry protection wall	14 Nos	700000			
					c) Water harvesting farm pond	4 Nos	1000000	Enclosure of Abstract of	was taken <sup>s</sup>
_		WGH-	NREGS (DRDA,	4596400	d) C.C Check cum Irrigation dam	5 Nos	1250000	Perspective Plan for Convergence of	
1	WGH	IWMP-VII	West Garo Hils, Meghalaya)		e) Earthen irrigation channel	1484 Rmt	72400	NREGs with IWMP in DPR	
					f) Wet terrace	10 Ha	150000		
					g)Rubber Plantation	40 Ha	292000		
					h) Arecanut Plantation	30 Ha	232000		
				Grand Total			4596400		

Grand Total: Forty five lakhs ninety six thousand and four hundred only.

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

#### ABSTRACT OF PERSPECTIVE PLAN FOR CONVERGENCE OF NREGS WITH IWMP AT ONTHAPARA VILLAGE

Name of the Village : Onthapara

Total Wages Component (@Rs. 117/- per m/days

Total No. of Job Card Holder : 73 Nos

Amount earmarked for Convergence per annum = (Rupees Eight lakh fifty four thousand and one hundred) only

Rs. 854101.00

854100.00

Rs.

=

								PROJECT	r perio	D					Total				
SL.No	ACTIVITY	UNIT		2011-12	2		2012-13			2013-14	ļ		2014-15			TOLAT		Mandays to be	
			PHY	FIN		PHY	PHY FIN		PHY I		IN PH		FIN		PHY	FIN		Generated	
				Wages	material		Wages	Material		Wages	Material		Wages	Material		Wages	Material		
1	Dugout pond @50000/- per No.	Nos.	8	400000		1	50000		3	15000		6	300000		18	900000		7692	
2	Stone masoury protection wall @50000 per No	Nos.	7	210000	140000	2	60000	40000	2	60000	40000	3	90000	60000	14	420000	280000	3590	
3	Water harvesting farm pond @250000/- per No.	Nos.	-	-	-	2	300000	200000	2	300000	200000	-	-	-	4	600000	400000	5128	
4	C.C.Check-cum-irrigation dam @250000/- per No.	Nos.	1	150000	100000	1	150000	100000	1	150000	100000	2	300000	200000	5	750000	500000	6410	
5	Earthen irrigation channel @50/- per rmt	Ha.	382	19100	-	342	17100		242	12000		482	24100		1484	72400	-	619	
6	Wet-terrace @15000/- per ha.	Ha.	5	75000	-	5	75000	-	-	-	-	-	-	-	10	150000	-	1282	
7	Rubber plantation:		-	-	-			-			-		-	-			-		
	(i)Planting @1800/- per ha	Ha.	-	-	-	30	54000	-	10	18000	-		-	-	40	72000	-	616	
	(ii)Weeding @2000/- ha	Ha.	-	-	-	30	60000	-	40	80000	-	40	80000	-	40	220000	-	1880	
8	Arecanut plantation:		-	-	-			-			-	-	-	-			-	-	
	(i)Planting @2400/- per ha	Ha.	-	-	-	20	48000	-	10	24000	-	-	-	-	30	72000	-	615	
	(ii)Weeding @2000/- ha	Ha.	-	-	-	20	40000	-	30	60000	-	30	60000	-	30	160000	-	1368	
	GRAND TOTAL		-	854100	240000		854100	340000		719000	340000		854100	260000		3416400	1180000	29200	

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

1	Wages Component:	=	Rs.	3416400.00
2	Material Components:	=	Rs.	1180000.00
	Grand Total	=	Rs.	4596400.00
	Grand Total (Rupees Forty five lakh ninety six thousand and for	ur hundre	d) only	

President Onthapara VEC Dalu Block, WGH Secretary

Onthapara VEC

Dalu Block, WGH

(MG BREAS, Most. V. Black West Garu HL's Jokep Sangne Onthapara With any V.E.C

Dalu Block, WG**Dalu Dev. B'ock** West Garo, 1018, Onthapataruttapara V, E. C. (MREGS) President President Krisbing Sargue

Grand Total (Rupees Forty five takh ninety six thousand and four hundred) only

Grand Total н 4596400.00

2 Material Components: 1 Wages Component: н Rs.

Amount allocated for convergence for the period 2011-12 to 2014-15 Rs. 3416400.00 1180000.00

			00			7	6	თ	1	4		ω		Ν				SL.NO	2	
GRAND TOTAL	(ii)Weeding @2000/- ha	(i)Planting @2400/- per ha	Arecanut plantation:	(ii)Weeding @2000/- ha	(i)Planting @1800/- per ha	Rubber plantation:	Wet-terrace @15000/- per ha.		Earthen irrigation channel @50/- per rmt	No.	C.C.Check-cum-irrigation dam @250000/- per		Water harvesting farm pond @250000/- per No.		Stone masoury protection wall @50000 per No	Dugout pond @50000/- per No.				
	Ha.	Ha.	e.	Ha.	Ha.		Ha.	Ha.		Nos.		Nos.		Nos.		Nos.				
							ъ	382		_				7		8		PHY		
854100							75000	19100		150000				210000	8	400000	Wages	FIN	2011-12	
240000										100000				140000			material	N		
	20	20		30	30		თ	342		-		2		2	0	_		PHY		
854100	40000	48000		60000	54000		75000	17100		150000		300000		60000	- 	50000	Wages	-	2012-13	
340000							1			100000		200000		40000			Material	FIN		PROJECT PERIOD
	30	10		\$	10		1	242	) 5	-	1	2		2		ω		PHY		PERIO
719000	60000	24000		80000	18000		,	12000	1	150000		300000		60000		15000	Wages	-	2013-14	
340000										100000		200000		40000			Material	FIN		
	30			40			1	482	8	2				ω		6		PHY		
854100	60000			80000			1	24100		300000				0000		300000	Wages	FIN	2014-15	
260000							1			000002				0000	2222		Material			
	30	30		40	6		10	1404		0	<u>۔</u>	÷		14		18		PHY		
3416400	160000	72000		220000	72000		150000	12400	00% CZ	00000		00000	~~~~~	420000		00000	Wages			Total
1180000										MANAC		400000	100000	79000			Material	FIN		
29200	1368	615		1880	616		1282		20 20	0410	640	0710	n 200	URCC	2500	7692		De Generated	Mandays to	

ABSTRACT OF PERSPECTIVE PLAN FOR CONVERGENCE OF NREGS WITH IMMP AT ONTHAPARA VILLAGE

UNDER DALMI MICRO WATERSHED, WGH-IWMP- VII

Total No. of Job Card Holder : 73 Nos Name of the Village : Onthapara

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

Rs. 854100.00 854101.00

n

Rs.

( Rupees Eight lakh fifty four thousand and one hundred) only

### AGREEMENT FOR CONVERGENCE OF SCHEME

The Village Employment Councils (VEC) and the Communities of Dalmi Villages, Dalu Blocks, West Garo Hills, Meghalaya have no objection to the Convergence of NREGS with Integrated Management Project (IWMP) at Onthapara village under Dalmi 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 Dam Cum Irrigation Dam.

4. Areca nut Plantation.

5. Earthen Irrigation Channel.

6.Water Harvesting Farm Pond.

7. Rubber Plantation.

8. Stone Masonry Protection Wall.

Abriahina Sangma President, president Village Employment Gowecit. (MREGS) OnthaparaDalu Dev, B'eck Dalu Block, WOPpst Garo Gints.

Josep Sangne Secretary,

Village Employment Council Ontherpererse ..... V. Black Dalu Block, WWH Garo HL'is

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

4

8

The A'king Nokma of Onthapara village under Dalmi 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 Onthapara 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

R.T.J. of. Chenji 2. Jangma

Ma Ch. D. Sangma Nokma II-12 (12) Ontap**ara** A-king West Garo Hills

Countersigned by

Divisional Officer, Tura Soil & Water Conservation (T) Division, West Garo Hills, Meghalaya.

#### ABSTRACT OF PERSPECTIVE PLAN FOR CONVERGENCE OF NREGS WITH IWMP AT ONTHAPARA VILLAGE

Name of the Village : Onthapara	Total Wages Component (@Rs. 117/- per m/days	=	Rs.	854100.00
Total No. of Job Card Holder : 73 Nos	Amount earmarked for Convergence per annum	=	Rs.	854101.00

#### (Rupees Eight lakh fifty four thousand and one hundred) only

		UNIT						PROJEC	T PERIOD							Total		
SL.No	ACTIVITY			2011-12			2012-13			2013-14			2014-15			lotai	Mandays to	
			PHY	F	IN	PHY	F	IN	PHY F		FIN PHY		F	IN	PHY	HY FIN		be Generated
				Wages	material		Wages	Material		Wages	Material		Wages	Material		Wages	Material	
1	Dugout pond @50000/- per No.	Nos.	8	400000		1	50000		3	15000		6	300000		18	900000		7692
2	Stone masoury protection wall @50000 per No	Nos.	7	210000	140000	2	60000	40000	2	60000	40000	3	90000	60000	14	420000	280000	3590
3	Water harvesting farm pond @250000/- per No.	Nos.	-	-	-	2	300000	200000	2	300000	200000	-	-	-	4	600000	400000	5128
4	C.C.Check-cum-irrigation dam @250000/- per No.	Nos.	1	150000	100000	1	150000	100000	1	150000	100000	2	300000	200000	5	750000	500000	6410
5	Earthen irrigation channel @50/- per rmt	Ha.	382	19100	-	342	17100		242	12000		482	24100		1484	72400	-	619
6	Wet-terrace @15000/- per ha.	Ha.	5	75000	-	5	75000	-	-	-	-	-	-	-	10	150000	-	1282
7	Rubber plantation:		-	-	-			-			-		-	-			-	
	(i)Planting @1800/- per ha	Ha.	-	-	-	30	54000	-	10	18000	-		-	-	40	72000	-	616
	(ii)Weeding @2000/- ha	Ha.	-	-	-	30	60000	-	40	80000	-	40	80000	-	40	220000	-	1880
8	Arecanut plantation:		-	-	-			-			-	-	-	-			-	-
	(i)Planting @2400/- per ha	Ha.	-	-	-	20	48000	-	10	24000	-	-	-	-	30	72000	-	615
	(ii)Weeding @2000/- ha	Ha.	-	-	-	20	40000	-	30	60000	-	30	60000	-	30	160000	-	1368
	GRAND TOTAL		-	854100	240000		854100	340000		719000	340000		854100	260000		3416400	1180000	29200

## Amount allocated for convergence for the period 2011-12 to 2014- $15\,$

	Grand Total (Rupees Forty fi	ve lakh ninety	six thousar	nd and four hundred) only	Dalu Block, WGH	Dalu Block, WGH
2	Grand Total	=	Rs.	4596400.00	Onthapara VEC	Onthapara VEC
2	Material Components:	=	Rs.	1180000.00	President	Secretary
1	Wages Component:	=	Rs.	3416400.00		

### Details of Convergence of IWMP with other Schemes:

Name of Villages: Onthapara

	1	2	3	4		5		6	7
			Names of Departments	Fund made available	Name of acti undertaken w				
SI. No.	District	Names of projects	Names of Departments with Schemes converging with IWMP	to IWMP due to convergence (Rs. in Iakh)	(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 at which decision for convergence was taken <sup>\$</sup>
					a)Dugout pond	18 Nos	900000		
					b)Stone masonry protection wall	14 Nos	700000		
					c) Water harvesting farm pond	4 Nos	1000000	Enclosure of Abstract of	
1	WGH	WGH-	NREGS (DRDA, West Garo Hils,	4596400	d) C.C Check cum Irrigation dam	5 Nos	1250000	Perspective Plan for Convergence of	District Level
I	WGH	IWMP-VII	Meghalaya)		e) Earthen irrigation channel	1484 Rmt	72400	NREGs with IWMP in DPR	
					f) Wet terrace	10 Ha	150000		
					g)Rubber Plantation	40 Ha	292000		
					h) Arecanut Plantation	30 Ha	232000		
				Grand Total			4596400		

Grand Total: Forty five lakhs ninety six thousand and four hundred only.

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