GOVERNMENT OF MEGHALAYA



DEPARTMENT OF SOIL & WATER CONSERVATION DETAIL PROJECT REPORT OF DARU MICRO WATERSHED UNDER INTEGRATED WATERSHED MANAGEMENT PROGRAMME WGH IWMP -VI 2010-2011



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

SUMMARY

Name of the Sate	:	Meghalaya
Name of the District	:	West Garo Hills
Name of the C&RD Block	:	ZIKZAK
Name of the Villages	:	i) DARUGRE ii) BANGDAPARA
Name of the Project	:	IWMP-VI
Total Geographical Area	:	719.1 Ha
Total Treatment Area	:	500 На
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 Daru watershed is located in Ziikzak C&RD Block, West Garo Hills District of Meghalaya. Consisting of a single microwatershed, the project area is drained by the Sotol River and its tributaries flowing in a south to north direction. The total area is 719.1 Ha. With 500 to be treated under the Integrated Watershed Management Programme (IWMP).

The Project area is located at a distance of about 15 km from Ampati the Civil Sub-Divisional Head Quater and about 63 km from Tura the District Headquarter . A total of two villages are covered under the project. These are –

(a) Darugre

(b) Bangdapara

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 719.1 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 Daru 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 located at West Garo Hills. It falls within the area of Zikzak, the C&RD Headquarter under West Garo Hills District. It is situated at a distance of about 15 Km from Ampati the Civil Sub-Divisional Head Quarter and about 63 km from Tura the District Headquarter. The geographical location is between $89^{\circ}59'52.80''$ to $90^{\circ}01'55.20''$ E Longitude and $25^{\circ}23'52.80''$ to $25^{\circ}26'56.40''$ N Latitude. There are 2 villages within the Watershed which are as follows –

- i) Darugre
- ii) Bangdapara

2.2 Physiography:

The physiography of the micro-watershed is highly undulating. The altitude ranges from a minimum of 45 m to a high of 150 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 %.

Table 2.1: Physiographic details

Elevation (metres)	Slope Range (%)	Order of watershed Sub/Micro-watershed	Major streams	Topography
45-150	1-50	2 nd Order micro watershed	Sotol, Wage songitcham, Mande, Mibit, Bondolkona, Rongbilbang , Daru.	Medium sloping

2.3 Drainage: The major stream draining the micro-watershed is Sotol which is 2^{nd} order stream flowing in a north-west direction. The slopes of the micro-watershed are dissected by numerous small tributaries flowing to the Sotol.

2.4 Soil:

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

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

1	2	3	4	5	6	7	8	9
Sl. No.	Names of State	Names of District	Names of Projects	Cause	Types of erosion	Area affected (ha)	Run-off (mm/ year)	Average soil loss (Tonnes/ ha/ year)
				Water e	erosion:			
				а	Sheet			
			W.G.H-	b	Rill	500	NA	NA
1	Meghalaya	W.G.H	IWMP-	с	Gully			
			VI	Sub	total	500	0	0
				Wind e	Wind erosion		Nil	Nil

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 alt. 3050mm.

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	Name of the	Area		Names of Major soil types		Major soil types		Major crops									
No.	of State	Agro- climatic zone	(in ha)	the districts	the Projects	a) b) Area (ha) Type		in mm (preceding 5 years' average)	a) Name	b) Area (ha)								
														Paddy	135			
									Maize	15								
		Central Hyper-	Hyper-							Arecanut	80							
				Hyper-	Hyper-	Hyper-	Hyper-	Hyper-	Hyper-	Hyper-	Hyper-	Hyper-			W.G.H-	(a) Fine loamy Soils	384.10	
1	Meghal aya	thermic Plateau	500	W.G.H	IWMP-			3050	Ginger	12								
	5	150-300			VI.	(b) Clay fine Soils	335											
		m																
								Total		252								

2.6 Agriculture: Agriculture is the primary occupation of the people of the area. The people mostly practice jhum. The jhum plots vary from 45-50 Ha, and are cultivated for 3-4 years. The principal agricultural crops grown of the jhum fields are potato, sweet potato, millet, maize, yam and vegetables. Fruit crops are well suited in the lower reaches which contribute to the income of the people.

Crops	Area (ha)	Average Yield (Qtl) per ha.	Total Production (Qtl.)
Paddy	135	15	2025
Maize	15	20	300
Arecanut	80	8	640
Ginger	12	35	420

Table 2.4: Crop yield and production

2.7 Natural Vegetation:

The tree species common to the watershed area includes Albizzia lebbek, Schima Wallichi, Emblica Officianatis, Romtan cuba and Bamboo sp. 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 158 with a total population of 306, of which 156 are male and 150 are female. The detail of the household in each of the villages in the watershed project is as follows:

1.	Darugre	=	102 nos.
2.	<u>Bangdapara</u>	=	56 nos.

Total = 158 nos.

Infrastructure facilities :

- 2.1.1 Roads: All the villages within the Project Area are not connected by road. The Project area depends entirely on the kutcha road .
- 2.1.2 School: there are only 1 (one) L.P Schools within the Project Area run by the Government.
- 2.1.3 *Electricity* : Connections have been provided but some villages are yet to have electricity.
- 2.1.4 *Health* : One Community Health Centre at Salmanpara in under construction and the local population have to either depends on facilities available at Ampati .
- 2.1.5 *Water Supply*: Drinking water supply have been provided by the PHE Dept . 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 Salmanpara However, the main market where the people sell their produce is at Bandalkona and also at Ampati.

 Table 2.5: Infrastructure Status.

1	2		3 4					
Name of	Name of		Parameters:		Stat	110		
District	Project				Diai	.45		
		(i)	No. of villages connected to the main road by an	Nil				
			all-weather road.					
		(ii)	No. of village provided with electricity	2 No.				
		(iii)	No. of households without access to drinking water					
		(iv)	No. of educational institutions:	(P)	(S)	(HS)	(VI)	
			Primary (P)/ Secondary (S)/ Higher Secondary (HS)/ Vocational institution (VI)	2 No				
		(v)	No. of village with access to Primary Health Centre	Nil				
WEST	IWMP-	(vi)	No. of village with access Veterinary Dispensary	Nil				
GARO	VI	(vii)	No. of village with access Post Office	Nil				
HILLS		(viii)	No. of village with access Banks	Nil				
		(ix)	No. of village with access Markets/ mandis					
		(x)	No. of village with access Agro-Industries	Nil				
		(xi)	Total quantity of surplus milk	Nil				
		(xii)	No. of milk collection centres	(U)	(S)	(PA)	(0)	
			(e.g. Union (U)/ Society (S)/ Private agency	Nil	Nil	Nil	Nil	
			(PA)/ Others (O))					
		(xiii)	No. of villages with access to Aganwadi Centres	1 No.				
		(xiv)	Any other facilities with no. of villages (please specify)	Nil				

2.9 Livestock

There are only 3 kinds of livestock farming being farmed in the area viz. Piggery, Poultry and goatry etc.

Type of Animal	Population
Piggery	102
Poultry	601
Cattle	143
Goatry	107

Table 2.6: Existing livestock population

2.7 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 of	Name of	Types of	No. of	No. of BPL	L	and holding (ha)		
Distric t	the Project	Farmer	s	sehold househol		Rainfed	Total	
		(i) Large	-	-	-	-	-	
WEST GAR		(ii) Small	158	-	-	318.26	318.26	
0 0	IWMP-	(iii) Marginal	-	-	-	-	-	
HILL S	VI	(iv) Landless	-	-	-	-	-	
5		Sub - Total	158			318.26	318.26	

Table 2.5: Common Property Resources in the Project Area

1	2	3		4 5						
Name of Name of the		CPR Particulars		Total Area (ha) Area owned/ In possession of			Area available for treatment (ha)			
District	Projects	Farticulars	Pvt. Person	Govt. (specify deptt.)	PRI	Any other (Community)	Pvt. Person	Govt. (specify deptt.)	PRI	Any other (Community)
		(i) Wasteland/ degraded land	-	-	-	33.74	-	-	-	350
		(ii) Pastures	-	-	-		-	-	-	-
		(iii) Private Agriculture land	-	-	-		80	-	-	-
		(iv) Village woodlot	-	-	-		-	-	-	-
WEST		(v) Forest	-	-	-	148	-	-	-	30
GARO	IWMP-VI	(vi) Village Ponds/ Tanks	-	-	-	-	-	-	-	-
HILLS		(vii) Community Buildings	-	-	-	-	-	-	-	-
		(viii) Weekly Markets	-	-	-	Bandalkona	-	-	-	-
		(ix) Permanent markets	-	-	-	Ampati	-	-	-	-
		(x) Permanent cultivation	133.11	-	-	43.22	-	-	-	-
		(xi) Temples/ Places of worship	-	-	-	Church- 2 Nos.	-	-	-	-
		(xii) Jhum cultivation)	-	-	-	17.56	-	-	-	-
		(xiii) Any other(pls specify) Horticulture plantation	115	-	-	9.37	-	-	-	40
		Total	248.11			470.99 Ha	80			420

2.10Land use and land cover : As per the land use land cover map the Watershed area has been broadly classified into the following land uses.

		Total	=	719.1	Ha
e)	Current jhum land		=	17.56	Ha
d)	Horticulture plantation		=	124.37	На
c)	Wastelands-open scrub		=	33.74	На
b)	Tree clad Area-open		=	367.10	На
a)	Agricultural land-crop land-kharif crop		=	176.33	На

2.11 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 which has further degraded the capability of the land. Moreover, 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 anoher infrastructural problems that the area is facing where large volume crops like pineapple, jackfruits, 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
А.	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)SNLA,GIS
		lab,Shillong
	Baseline survey	YES
	Hydro-geological survey	GIS
		survey/engineering
		Survey
	Contour mapping	Toposheet(1:50000)
	Participatory Net Planning (PNP)	PRA exercise

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

1	2	2
	Remote sensing data-especially soil/ crop/ run-off cover	YES
	Ridge to Valley treatment	YES
	Online IT connectivity between	
	(1) Project and DRDA cell/ZP	YES
	(2) DRDA and SLNA	YES
	(3) SLNA and DoLR	YES
	Availability of GIS layers	
	1. Cadastral map	NO
	2. Village boundaries	NO
	3. Drainage	YES
	4. Soil (Soil nutrient status)	YES
	5. Land use	YES
	6. Ground water status	NO
	7. Watershed boundaries	YES
	8. Activity	YES
	Crop simulation models [#]	NO
	Integrated coupled analyzer/ near infrared visible spectroscopy/ medium spectroscopy for high speed soil nutrient analysis	NO
	Normalized difference vegetation index (NDVI)#	YES
	Weather Stations	NO
В.	Inputs	
	1. Bio-pesticides	NO
	2. Organic manures	YES
	3. Vermi-compost	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		Ι	Details of PIA
		(i) Type orga	of nization#	Government
		(ii) Name	e of	Soil & Water Conservation (T)
		orga	nization	Division,
W.G.H	W.G.H-IWMP-	(iii) Desig	gnation &	Divisional Officer, Tura Soil & Water
w.О.П	VI	Add	ress	Cons.(T) Division, W.G.H, Tura
				Meghalaya.
		(iv) Telep	ohone	03651-222354
		(v) Fax		03651-222354
		(vi) E-ma	uil	turadivsoil@gmail.com

3.3 Institution Building

i) Watershed Committee (WC)

The Watershed Committee of the Daru IWMP-VI was constituted with the active involvement of the villagers with strong support of the Traditional Institutions (Village Durbar/Council). The Sotol 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	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-I
				Secretary	М		ST									MSc (Forestry)	A-I
W.G.H	W.G.H- IWMP-VI	Daru	Under progress	Member	6 M		ST										Do
	1 ** 1*11 - * 1		progress	Member	3 F		ST									Cl-II to Cl-VIII	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 of the	Nomes of	Tot	al no. of reg	istered S	HGs	No.	of men	nbers			SC/S' catego	T in each ory		of BPL catego	
Names of the Districts	projects	With only Men	With only Women	With both	Total	Categories	М	F	Total	М	F	Total	М	F	Total
	W.G.H-					(i) Landless									
W.G.H	W.O.H- IWMP-					(ii) SF									
, , , , , , , , , , , , , , , , , , ,	VI					(iii) MF									
						(iv) LF									

iii) User Group

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

1	2		3				4				5			6	
Names of Districts	Names of		Total no.	. of Ugs		No. o	f mer	nber	'S			C/ST in egory		f BPL	in each Y
	Projects	Men	Wome n	Both	Total	Categories	Μ	F	Total	М	F	Total	М	F	Total
						(i)Landles s									
W.G.H	W.G.H					(ii) SF									
	IWMP -VI					(iii) MF									
			(i			(iv) LF									
Total															

Table 3.4: User Group Details

CHAPTER IV PROJECT ACTIVITIES

CHAPTER IV PROJECT ACTIVITIES

4.1 Preparatory Phase:

i) Entry Point Activities (EPA)

			-)				(F	inancial – F	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-VI	75 Lakhs	Construction of Spring Chamber	3.0	-	-	NA	NA

ii) Other activities of Preparatory Phase:

1	2	3	4	5	6	7	8	9	10	11	12	13
District	Name of Projects	Initiation of village level institution	Capacity building	IEC activities	Baseline survey	Hydro- geologic al survey	Identifying technical support agencies	Resource agree-ments	Prepar ation of DPR	Evaluatio n of DPR	Any other (please specify)	Cost incurre d (Rs. In lakh)
W.G.H	W.G.H IWMP- VI	a) Rapport Building b) Community meeting c)Formation of	a) Project concept/roles and responsibility of W.C b) Concept/roles and responsibility of SHG and UG c) Concept/roles and responsibility of of WDT members d) Off-campus exposure trip to research Institutes/Estab lished farms etc.	a)Pamplets b)Banners c)Posters	a)Participa tory 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 b) Agreement for convergence of NREGS scheme with IWMP with VEC. 	a)Reso urce 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	ct						Prope	sed Project					
S	Nam	Name					C to a second	Augn		/ repair of actures	existing	Co	nstruction	of new stru	ictures		Tota	ıl target	
1. N o	e of State s	of Distric ts	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 capacity (per unit)	Estimate d cost (in lakhs)	No	Area to be treated (ha)	Storag e capacit y (m ³)	Estimat ed cost
1				Dug out Pond	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		W.G.H-	C.C Check cum irrigation dam	-	-	-	-	-	-	-	5	90	675 m³	12.50	4	90	675 m³	10.00	
	Meg halay	W.G. H	W.G.H- IWMP- VI	Water harvesting farm pond	-	-	-	-	-	-	-	4	135	1012 m ³	10.00	4	135	1012 m ³	10.00
	а			Irrigation Channel	-	-	-	-	-	-	-	340 rmt	70	-	0.17	340 rmt	70	-	0.70
					-	-	-	-	-	-	-								
			Total										335	2512 m ³	22.67		335	2512 m ³	22.67

				9	10							
Augr		' repair of e actures	existing	С	onstruction	of new struc	ctures	T	otal achievem	ent	Change in storage capacity (col 8-6)	Change in irrigated area (ha) Col. (8-6)
No	Area irrigate d (ha)	Storage capacity	Expendit ure incurred (in lakhs)	No	Area irrigated (ha)	Storage capacity	Expenditur e incurred (in lakhs)	Area irrigated (ha)	Storage capacity	Estimated incurred		-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
Total												

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			P	ropo	sed ta	rget				А	chiev	emer	nt due t	o proj	ject		
S. N	s of	Dictri		Type of structur		Area	repai re st	menta r of ex chargi ructur	isting ng	nev		tion of arging ires	Total	target	repa r	gmentat ir of exi echargir structure	sting ng	new	structio rechar tructure	rging	To achiev		irrigate d area
0.	Distri project	es		d (ha)		Area to be irriga ted (ha)	Estim ated cost		Area to be irriga ted (ha)	Estim ated cost	Area to be irrigat ed (ha)		No.	Area irrigate d (ha)	Exp endi -ture incu rred		irri-	Expe ndi- ture incur red	irri-	Expe ndi- ture incurr ed	(Col. 8-6) (ha)		
	alaya		IWMP	(i)Dug out pond		NIL		NIL		5	10	5.31	10	5.31		NIL		0	0	0	0	0	
				Total for the project						5	10	5.31	10	5.31									

	2				3			
			Major activities c	of the UGs –Tai	rgets			
Names of Districts	Names of Projects		Structure/ ac	tivity proposed		No. of UGs	Estimated	Amount of WDF to be collected
Districts	Tiojeets	Sl. No.	Туре	No.#	Treatment (ha)	involved	Cost	(Rs.)
		1	CC.C.Check Dam cum Irrigation	5	85	1	12.50	0.625
W.G.H	W.G.H- IWMP-VI	2	Stone masonry .Protection Wall	6	75	2	3.00	0.15
		3	Earthen IrrigationChannel	340 rmt	65	2	0.17	0.085
		Total			205	5	13.5275	0.860

4.2.3 Activities executed by User Groups in the Project Areas.

				4	ŀ										
			Major a	activities of the	UGs – Achieve	ements									
	Structure/ activity No. of UGs Expenditure No. of mandays Amount of WDF														
Sl. No.	Туре	No.#	Treated Area (ha.)		incurred (Rs.)	SC	ST	F	collected (Rs.)						
-	-	-	-	-	-	-	-	-	-						
-	-	-	-	-	-	-	-	-	-						

4.2.4 Activities executed by User Groups in the Project Areas:

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

1	2	3										
		Major activities of the SHGs										
Names of the Districts	Names of projects	Name of activity	No. of SHGs involved	Average annual income from activity per SHG								
		Piggery/ Poultry	4	1.50								
W.G.H	W.G.H-IWMP-VI											
	Total		4	1.50								

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	Total a	ssistance re (Amoun)	ceived by th t in Rs.)	e SHG	Total appual	Total annual	G		SHGs d as	Total Amount of	
SHGs given training	Loan from revolving fund	Training	Material	Others (pl. specify)	Total annual Income generated (Rs.)	Total annual Savings (Rs.)	Ι	II	III	loan sanctioned by the bank(s)	No. of SHGs federated
	NIL	1.60	NIL	Piggery/ Poultry	1.50	-					

4.2.7 Other activities of watershed works phase:

1	2	3		4			5	6		2	7	8			9		10	1	1	12		13
District	Names of projects	Ridge ar treatme		Drainag treatn	-	rais	rsery sing	Lan develop		Cr lemo io	nstrat ns	Horticul Cash (Develop	Crop		erinary vices		hery opment	No conve al en	ention ergy			Total cost incurred (Rs.
D	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)	In lakhs)
W G H	W.G.H IWMP- VI	i)Improv ement of degraded forest(10 Ha)	1.0 8	i)che ck dam ii)pro tectio n wall iii)du gout pond iv)far m pond v)cha nnel	12.5 0 3.00 5.31 10.0 0 0.17			i)Wet Terra ce(15 Ha)	2.00	_	_	i)Rubb er plantati on(40 Ha) ii)Arec anut plantati on (25Ha)	1.72	Pig ger y/ Pou ltry	2.16	Pisc icul ture	1.70	_	_	Gardening(160Unit		
	Total		1.0 8		30.9 8				2.00				3.44		2.16		1.70				13.3 9	54.75

1	2	3		4			5		6			,	7						8		
			Тур	e of treatm	nent	7	Гуре of land		Executing agency			Tar	get						Achieve	ement	
District	Project	Name of structures	(i) Ridge area (R)	Drainage line (D)	Land Dev. (L)	Private	Com-munity	Others (pl. specify)	(ii)SHG (iii) Other (pl.	units	of ts in lakh)		(Rs. ^{mont} year comp	xpected onth & No. o year of units ompleti (No./ on cu.m.		No./			Status of comple- tion	Actual month & year of completion (mm/yyyy)	
								speeny	specify)	rmt)	Μ	W	го	Г (mm/ у)		nt)	M W	v o	Т		(11111, 33, 39, 39)
		C.C.Check cum irrigation Dam		D			Community		UG/WC	4 Nos.	7.5	5	12	2.5 3 y	rs						
		Stone masonry Protection Wall		D			Community		UG/WC	6 Nos	1.8	1.2		3 ³ yrs	;						
	W.G.H-	Wet Terrace			L	Private			UG/WC	10 Ha		2.00	2.0	0 3 yrs	;						
W.G.H		Dug-out Pond		D		Private			UG/WC	17 Nos		5.31	5.3	1 3 yrs	;						
	¥ I	Earthen Irrigation Channel		D			Community		UG/WC	340 Rm		0.17	0.1	7 ³ yrs	;						
		Water harvesting farm pond		D					UG/WC	4 Nos	6	4	1	10 ^{3 yrs}							
		Total									15. 3	17.6 8	32	98							

4.2.8 Details of engineering structures in watershed works:

4.2.9 Details of engineering structures in watershed works.

							9												
							Outcomes												
		Water level (m)			luction iintal)	Income	e (Rs.)		Ν	landays g	generated			No. of beneficiaries					
Reduction in run off (cu.m)	Area treated# (ha)				1		r	_											
		Pre-project	Post project	Pre- project	Post project	Pre- project	Post project	SC	ST	Others (Men)	Women	Total	SC	ST	Others	Women	Total		
NA	380	NA	NA	Paddy (18 Qtls)	Paddy (33 Qtls)	22,000	40,000	-	6249	-	4166	10,415	-	50	_	32	82		
				Maize (15 Qlts)		10,000	14,300												

1	2	3		4			5		6			7				8	
			Тур	e of treatr	nent	Т	ype of I	land	Executing agency		,	Target					
District	Project	Name of structure/ work	(i) Ridge area (R)	(ii) Drainag e line (D)	(iii) Land dev. (L)	(i) Priva te	(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)	
		Improvemen t of Degraded Forest							WC/UG	10	10000	0.36	3 yrs				
	IWMP																
W.G.H	-VI	Arecanut							Farmer	25	30,000	1.72	3 yrs				
		Rubber							Farmer	40	18,000	1.72	3 yrs				
											*						
		Total								75		3.44					

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

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.

								9							
								Outcom	nes						
S	Reduc tion in run off	Production	(quintal)	Income (Rs.)			GT		generated	T - 1			No. of bene		
	/ \	Pre-project	Post project	Pre- project	Post project	SC	ST	Others	Women	Total	SC	ST	Others	Women	Total
Improve ment of Degraded Forest	NA	0					240		120	360		50		32	82
Rubber Plantatio n	NA	0	120	0	1440,000		4000		2000	6000		25		15	40
Arecanut	NA	300	770	240,000	620,000		2300		1120	3420		28		14	42
Total		300	890	240,000	2056,000		6540		3240	9780		103		61	164

4.2.11 Details of vegetative structures in watershed works: Phase – II (contd.):
4.2.12 Details of allied / other activities:

1	2	3		4		5		6	2	7
				Type of	land	Executing agency		Target	Achiev	/ement
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				Private	0.25	3 yrs		
		Agriculture implements		\checkmark		SHG/UG	1.15	3 yrs		
		Piggery/ Poultry		\checkmark		SHG/UG	2.16	3 yrs		
		Tailoring		\checkmark		SHG/UG	2.24	3 yrs		
West		Weaving	\checkmark			SHG/UG	4.80	3 yrs		
West Garo	IWMP-VI	Basket making	\checkmark			Private	0.15	3 yrs		
Hills	1 ** 1*17 - * 1	Fingerlings	\checkmark			Private	0.25	3 yrs		
111115		Carpentry	\checkmark			Private	0.10	3 yrs		
		Rice mill				SHG/UG	2.00	3 yrs		

(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	5000-6000	20,000- 25,000							20	NIL	10	30
Piggery	25,000-30,000	60,000- 70,000							10	NIL	30	30
Poultry	13,000-15,000	40,000- 45,000							10	NIL	30	30
Fingerlings	NIL	50,000- 60,000							15	NIL	10	25
Rubber budded poly bag nursery	NIL	85,000- 90,000								NIL	30	30
~	Total								55		110	165

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			А	chievem	ent			
Names of the Districts	Names of projects	Name(s) of the villages	CPR particulars	Activity proposed	Target area under the	expenditure	Expected no. of beneficia-	Estimated contri- bution to	under the	Expenditure incurred	Actual no. of benefici	No	o. of man		WDF collected
	projects				activity (ha)	(Rs.)	ries	WDF (Rs.)	activity (ha)	(Rs.)		SC	ST	F	(Rs.)
		Daru													
West Garo Hills	WGH IWMP- VI		Repairing maintanance of CPR's			0.875		0.04375							
		Bangdapara													

CHAPTER V PROJECT PHASING & BUDGETING

CHAPTER V

PROJECT PHASING & BUDGETING

ACTION PLAN OF DARU MICRO WATRSHED (IWMP) UNDER TERRITORIAL DIVISION, TURA.

Name of District : West Garo Hills
Name of C. & R. D. Block : Rongram

No. of villages Covered : 2 nos.

Name	of C. & R. D. Block : Rongram				Project	Area :	250.00	На.					
			-	1	1	(Figure	s in lakh)	T		1	-	-	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
				II nd Y	r.	III rd	Yr.	IV th	Yr.	V th	Yr.		
SI.		l st Yı	: (6%)	(14%)		(50%))	(25%)		(5%)		Tota	l 100%
No.	Activities	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.
1	<u>Management Cost</u> :												
Α	Administrative Cost : 10 %	-	-	2%	1.50	5%	3.75	3%	2.25	-	-	10%	7.50
	i) Honorarium of 1 WDT Member @ Rs.8000/- per month	-	-	-	0.16	-	0.96	-	0.48	-	-	-	1.60
	ii)Honorarium of watershed Committee Chairman												
	@ Rs. 500/- per month	-	-	-	0.06	-	0.06	-	0.06	-	-	-	0.18
	iii) Honorarium of WCM @ Rs200/- per member per month	-	-	-	0.216	-	0.216	-	0.216	-		-	0.648
	iv) Honorarium of Chartered Accountant	-	-	-	0.16	-	0.20	-	0.20	-	-	-	0.56
	v) TA/DA of Field Asst. @ Rs.5000/- per month vi) Hiring Charges of Office Building @ Rs.1000/- per	-	-	-	0.30	-	0.60	-	0.30	-	-	-	1.20
	month	-	-	-	0.12	-	0.12	-	0.12	-	-	-	0.36
	vii) Hiring Charges of Vehicles @ Rs.5000/- per month	-	-	-	0.30	-	0.60	-	0.60	-	-	-	1.50
	viii)Office expenses, POL, Stationeries, Printing of SHG books,												
	pamphlets, tea & snacks, cost of camera etc.	-	-	-	0.184	-	0.994	-	0.274	-	-	-	1.452
	Total Of 'A'			2%	1.50	5%	3.75	3%	2.25			10%	7.50
	Preparatory Phase :												
В	Entry Point Activities ; 4 %	4%	3.00									4%	3.00
	i) Construction of Spring Chamber @ Rs. 60000/- per no.	3	1.80	-	-	-	-	-	-	-	-	3	1.80
	ii) Construction of Ringwell @ Rs.60000/- per no.	2	1.20	-	-	-	-	-	-	-	-	2	1.20
	Total of 'B'	4%	3.00									4%	3.00

1	2	3	4	5	6	7	8	9	10	11	12	13	14
С.	Institution & Capacity Building ; 5 %	1%	0.75	2%	1.50	1%	0.75	1%	0.75			5%	3.75
	i) Awareness Campaign	-	0.20	-	0.20	-	0.15	-	0.20	-	-	-	0.75
	ii) Exposure visits off-campus	-	-	-	0.5	-	0.3	-	0.35	-	-	-	1.15
	iii)Capacity Building of SHGs/UGs	-	0.20	-	0.40	-	0.20	-	0.20	-	-	-	1.00
	iv) Capacity Building of WC members	-	0.15	-	0.40	-	0.10	-	-	-	-	-	0.65
	v) Capacity Building of WDT/W Volunteer	-	0.20	-	-	-	-	-	-	-	-	-	0.20
	Total of 'C'	1%	0.75	2%	1.50	1%	0.75	1%	0.75			5%	3.75
D.	Detail Project Report (DPR) - 1%	1%	0.75									1%	0.375
	i) Cost of Resources Inventories works	-	0.25	-	-	-	-	-	-	-	-	-	0.25
	ii) Cost of PRA	-	0.10	-	-	-	-	-	-	-	-	-	0.10
	iii) Cost of Land use survey	-	0.25	-	-	-	-	-	-	-	-	-	0.25
	iv) Cost of formulating	-	0.15	-	-	-	-	-	-	-	-	-	0.15
	Total of 'D'	1%	0.75									1%	0.75
Е.	i) Monitoring - 1%	-	-	-	0.15	-	0.375	-	0.225	-	-	1%	0.75
				0.2%	0.15	0.5%	0.375	0.3%	0.225			1%	0.75
F.	ii) Evaluation - 1%	-	-	-	0.225	-	0.375	-	0.15	-	-	1%	0.75
	Total of 'E'			0.3%	0.225	0.5%	0.375	0.2%	0.15			1%	0.75
	Total of I (A to F)	6%	4.5	4.5%	3.375	7%	5.25	4.5%	3.375			22%	16.50
II	Watershed Works Phase : 50 %			7.50%	5.625	35%	26.25	7.50%	5.625			50%	37.50
А.	Arable Land Treatment :												
	iii) Terracing - @ Rs.20000/- ha.	-	-	6	1.20	-	-	4	0.80	-	-	8	2.00
	Total of 'A'				1.20				0.80				2.00
В.	Non-Arable Land Treatment :												
	a) Arecanut Plantation - Prelim. @ Rs.1300/- per ha.	-	-	20	0.26	-	-	-	-				0.26
	1st year Planting @ Rs.4600/- per Ha.	-	-	-	0.92	-		-	-	-	-		0.92
	2nd year Planting @ Rs. 2700/- per Ha.	-	-	-	-	-	0.54	-	-	-	-		0.54
	b) Imprvt .of Degraded Forest -Prelim. @ Rs.700/- per Ha.	-	-	30	0.21	-	-	-	-	-	-		0.21
	1 st year Planting @ Rs. 1900/- per Ha.	-	-	-	0.57	_	-	-	-	-	-		0.57
					0.07								

...C.O...

1	2	3	4	5	6	7	8	9	10	11	12	13	14
	c)Rubber pltn Pelim. @ Rs.1300/-per ha.	-	-	20	0.26	-	-	-	-	-	-		0.26
	1st year Planting @ Rs.4600/- per Ha.	-	-		0.92	-	-	-	-	-	-		0.92
	2 nd year Planting @ Rs. 2700/- per ha.	-	-	-	-	-	0.54	-	-	-	-		0.54
	Total of B				3.54		1.38						4.52
С.	Drainage Line Treatment :												
	i) C.C. Irrigation Dam	-	-	-	-	4	10.00	1	2.50	-	-		12.50
	ii) W/H Farm Pond	-	-	-	-	4	10.00			-	-		10.00
	iii) Dug out-cum-Fishery Pond	-	-	1	0.885	2	1.77	3	2.655	-	-		5.31
	iv) Protection Wall	-	-	-	-	6	3.00	-	-	-	-		3.00
	v) Earthen Irrigation Channel @ Rs.50/-per R/m	-	-	-	-	199	0.0995	140	0.07	-	-		0.17
	Total of 'C'				0.8850		24.87		5.225				30.98
	Total of II (A to C)			7.5%	5.625	35%	26.25	7.5%	5.625			50%	37.50
<i>III</i>	Livelihood Activities for Assetless Person - 10%			1%	0.75	3%	2.25	6%	4.50			10%	7.50
	i) Kitchen Garden @ Rs.2500/- per unit	-	-	3	0.05	6	0.15	2	0.05	-	-		0.25
	ii) Pisciculture @ Rs. 10000/- per unit	-	-	3	0.30	4	0.40	10	1.00	-	-		1.70
	iii)Agricultural Implements @ Rs. 5000/- per unit	-	-	-	-	2	0.10	21	1.05				1.15
	iv) Tailoring @ Rs. 8000/- per unit	-	-	-	0.24	10	0.80	15	1.20				2.24
	v) Poultry/Piggery @ 8000/- per unit	-	-	-	0.16	10	0.80	15	1.20				2.16
	Total of III			1%	0.75	3%	2.25	6%	4.50			10%	7.50
IV	Production System & Micro Enterprises - 13%			1%	0.75	5%	3.75	7%	5.25			13%	9.75
	i) Grocery @ Rs. 30000/- per unit	-	-		0.30		1.50		0.90				2.70
	ii)Weaving @ Rs. 30000/- per unit	-	-		0.30		1.20		3.30				4.80
	iii)Basket Making @ Rs.2500/- per unit	-	-		0.05		0.05		0.050				0.15
	iv)Carpentry @ Rs. 5000/- per unit				0.10		-		-				0.10
	v) Rice Mill @ Rs. 50000/- per unit	-	-		-		1.00		1.00				2.00
	Total of IV			1%	0.75	5%	3.75	7%	5.25			13%	9.75

.....C.O....

1	2	3	4	5	6	7	8	9	10	11	12	13	14
v	Consolidation & withdrawal Phase - 5 %									5%	3.75	5%	3.75
	i) Repairing & maintenance of CPR's	-	-	-	-	-	-	-	-	-	1.75	-	1.75
	ii) Improving the sustainability of various intervention	-	-	-	-	-	-	-	-	-	1.00	-	1.00
	iii)Documentation of successful experience and preparation												
	of Completion Report.	-	-	-	-	-	-	-	-	-	1.00	-	1.00
	Total of V									5%	3.75	5%	3.75
	Grand Total												
	(6%	4.5	14%	10.50	50%	37.50	25%	18.75	5%	3.75	100%	75.00

Deputy Commissioner, West Garo Hills, Tura Meghalaya.

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

VILLAGEWISE ACTION PLAN OF DARU MICRO WATERSHED UNDER IWMP – VI TERRITORIAL DIVISION : TURA .

	of C.& R.D. Block : Zikzak				Project Are		
SI.		Darugr		Bangdapara	1	Total	
lo.	Activities	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.
1	2	3	4	5	6	7	8
I	Watershed works Phase :						
Α.	Non Arable Land Treatment :						
	i) Rubber Plantation @ Rs8600/- per Ha.	10	0.86	10	0.86	20	1.72
	ii) Arecanut Plantation @ Rs. 8600/- per Ha.	10	0.86	10	0.86	20	1.72
	iii)Degraded Forest @ 3600/-	15	0.54	15	0.54	30	1.08
в.	Arable Land Treatment :						
	T erracing	6	1.20	4	0.80	10	2.00
с.	Drainage Line Treatment :						
	i) Irrigation Dam @ Rs. 250000/- per no.	3	7.50	2	5.00	5	12.50
	ii) W/H Farm Pond @ Rs. 250000/- per no.	2	5.00	2	5.00	4	10.00
	iii) Dug out Pond @ Rs. 50000/- per no.	3	2.655	3	2.655	6	5.31
	iv) Protection Wall @ Rs. 50000/- per no.	3	1.50	3	1.50	6	3.00
	v) Earthen. Channel @ Rs.50/- per R/m	199	0.0995	140	0.07	339	0.1695
	Livelihood Activities for Assetless						
	i) Kitchn Gardn @ Rs. 2500/- per unit	6	0.15	5	0.125	11	0.25
	ii) Pisciculture @ Rs. 10000/- per unit	10	1.00	7	0.70	17	1.70
	iii)Tailoring @ 8000/-	10	0.80	15	1.20	25	2.24
	iv) Poultry @ 8000/-	15	1.20	12	0.96	0.96	2.16
V	Production System and Micro ss						
	i) Grocery @ Rs. 30000/-	4	1.20	3	0.90	7	2.70
	ii)Weaving @ .30000/-	4	1.20	3	0.90	7	2.70
	iii)Carpentry @ 5000/-	1	0.05	1	0.05	2	0.10
	iv) Rice Mill	2	1.00	2	1.00	4	2.00

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

1	2	3	4	5	6	<u>5</u>	7	8	9			10				11		
S L	Name of State	Name of Distric	Names of Project	Year of sanct	Proj dura (dd/i yyy	tion mm/	Area of the project	Projec t cost (Rs. In	Names of Micro watersheds & Code nos. (as	Treat	ed Area (ł	na) of the pr	rojects				tails (ha) e projects)	
No	State	ts	S	ion	From	То	S	lakh)	per DoLR's unique codification)									
										Cultiv ated rainfed area	Cultiv ated irrigat ed area	Uncult waste		Agri. Land	Fores t land	Com m unity land	Others (pl. specify) Horticu lture plantati on	Total area (ha)
												a) Tempor ary fallow	b) Per manent					
1	Megh alaya	W.G. H	W.G.H - IWMP- VI	2010 2011	2010 - 2011	2014 - 2015	500 Ha	75 Lakhs	Daru	0	470	30	0	70	30	0	400	500

Fund provision for the IWMP projects from all sources:

1	2	3	3		Scheme (Lakhs) private contri- Name contri- Name contri- Name contri- bution bution							5		
						Funds	from other	sources in	n addition to	IWMP fu	nds			
Distric t	Name of Projects	IWMP	' Fund	Converge	nce funds	Р	PP	Con	nmunity					Total
		Central Share	State Share	Name of Scheme		private	contri-	Name	contri-	Name	al	Name	contri-	
W.G. H	W.G.H- IWMP VI	67.50	7.5	NREGS	73.752	nil	nil	nil	Nil	nil	nil	nil	Nil	148.752

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)	account 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 & 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	West Garo Hills	WGH IWMP VI	AXIS Bank Tura Hawakhana	911020009 285573	Saving	Chairman and Secretary of Watershed	Daru	AXIS Bank Tura Hawakhana	91102000 9285573	Saving	Chairman and Secretary of Watershed

Public-Private Partnership in the IWMP projects: NIL

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

* 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	nce	
Sl. No	Sta te	of the Trainin g Institut e	Full Address with contact no., website & e-mail	Designat ion of the Head of Institute	Type of Institute [#]	Area(s) of specialization ^{\$}	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		-	-	-	_	_
		(NER)			Govt.	Devt.	NA					
2		SIRD	Nongsder	Director	State Govt.	Capacity Building	NA	-	-	-	-	-
3	Meghalaya	RRTC	Umran	Director	Don- Bosco	Agri-Horti, Animal Husbandry, Entrepreneurship	NA	-	-	-	-	-
4	Meg	ICAR	Umiam	Director	Central Govt.	Do	NA	-	-	-	-	-
5		VTC	Kyrdem Kulai	Director	State Govt.	Animal Husbandry	NA	-	-	-	-	-
6		Fruit Garden	Shillong	Director	State Govt.	Agri-Horti, Fruit Processing	NA	-	-	-	-	-

- From Column no. 2, total no. of States implementing the programme, from Column no. 3, no. of training institutes, from column No. 9, total no. of category-wise trainings and trainees may be given at the end of the table for the entire country
- # Central govt. Dept./ State govt. Dept./ Autonomous Body/ Research Institutes/ Universities/ Others (pl. specify)
- \$ Capacity Building/ Agriculture/ Horticulture/ Animal Husbandry/ Pisciculture/ Remote Sensing/ Water conservation/ Ground water/ Forestry/ livelihoods/ entrepreneurship development/ others (pl. specify)
- [®] The training institutes must fulfill the conditions mentioned in the operations guidelines.
 - (i) Technical experts in fields required by IWMP
 - (ii) Past experiences
 - (iii) Annual Turnover
 - (iv) Receives funds either from the Central or State Government
 - (v) Publications
 - (vi) Not blacklisted by any Govt. organizations
 - (vii) Audited accounts
 - (viii) Organizational structure

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

1	2	3	4	5		6		7	
Project	Total no.	No. of persons	No. of persons to be trained	No. of persons trained during	Sources of funding for traininga) DoLRb) Any other (Pl. specify)		Funds utilized (Lakhs)		
Stakeholders	of persons	trained so far	during current financial year	current financial year			a) DoLR	b) Any other (Pl. specify)	
PIA	15	Nil	15	Nil					
WDTs	4	Nil	4	Nil					
UGs	45	Nil	45	Nil					
SHGs	50	Nil	50	Nil					
WCs	10	Nil	10	Nil	3.75	nil	0.75	Nil	
GPs	Nil	Nil	Nil	Nil	5.75	1111	0.75	1411	
Community	218	Nil	218	Nil					
Others Pl. specify)	nil	Nil	nil	Nil					
Total	342	Nil	342	Nil	3.75	0	0.75	0	

	1	2	3	4	5
	Activity	Executing agency	Estimated expenditure (Rs.)	Expenditure incurred (Rs.)	Outcome (may quantity, wherever possible)
1.	Awareness	S&WC (T) Division	0.40		a) Better understanding of Project conceptb) Preview of Project achievent.
2.	Exposure Visits	S&WC (T) Division	0.95		
3.	Capacity Building	S&WC (T) Division	0.20		

 Table 6.3: Information, Education & Communication (IEC) activities for the year 09-10 as on 31/03/10 (dd/mm/yyy)*

CHAPTER VII EXPECTED OUTCOME

CHAPTER VII EXPECTED OUTCOME

Table 7.1 Employment related outcomes:

	Name of		1 Wage employment							2						
Sl No										Self employment						
110	Village		Ν	lo. of man	days			No	. of benefi	ciaries			No	. of benefi	ciaries	
		SC	ST	Others	Women	Total	SC	ST	Others	Women	Total	SC	ST	Others	Women	Total
1	Darugre	-	2254	-	2578	-	-	90	-	60	150	-	15	-	7	22
2	Bangdapara	-	2129	-	3007	-	-	85	-	70	156	-	25	-	17	42
	TOTAL	-	4383	-	5585	-	-	175	-	130	306	-	40	-	24	64

Table	7.2	Migration	Details:
-------	-----	-----------	-----------------

1	2	3	4	5	6	7	8	9]	10
Names of the Districts	Names of Projects	Name of village	No. of persons migrating	No. of days per year of migration	Major reason(s) for migrating	Distance of destination of migration from the village (km)	Occupation during migration	Income from such occupation (Rs. in lakh)	identify maje	ed migration or activities of esponsible (b) Livelihoods
				N	Ι	L				

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

Table 7.3 Economic benefits accrued to women:

]	1	2	2		3	4
Wa	Wages		ning	Liv		
Woman days	Amount (Rs. in lakh)	No. of women participantsAmount (Rs. in lakh)		No. of women beneficiaries	Value of assistance provided (Rs. in lakh)	Total (Rs. in lakh)
5585	10.70	53	0.40	20	3.00	14.10

* 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.

walka 💴

1	2	3	4	5	6			7		8
Names of the Districts	Names of the	Names of the	Particular of CPR	Nature of	Period of	Be		ry details (i amilies)	no. of	User Charges
Districts	projects	villages	OI CPK	right	right	SC	St	Others	Total	(Rs.)
		Darugre	FW/MFP/T	Unspecified	Unspecified	43		43	NIL	-
		Manwapara	Wd	Unspecified	Unspecified	18		18	NIL	-
		-	Wi	Unspecified	Unspecified	30		30	NIL	-
West Garo Hills	WGH IWMP-	-	Wi	Unspecified	Unspecified	30		30	NIL	-
	VI	-	FW/MFP/T	Unspecified	Unspecified	23		23	-	-
		-	Wd	Unspecified	Unspecified	12		12	-	-
		-	Wi	Unspecified	Unspecified	15		15	-	-
		-	Wi	Unspecified	Unspecified	15		15	-	-

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

* 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.

	for right to fishing	g [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 of	ther than indicated above (please specify

Table 7.5 Water related outcomes:

F

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
WGH	WGH IWMP	Bore Well	NA	NA	NA	NA	NA
	VI	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	Name of the		bility of drinkin of monyhs in a	0	Qual	ity of drinking	water	Commonto
District	project	Pre-project	Post-project	Change in availability	Pre-project	Post-project	Change in quality	Comments
Meghalaya	WGH IWMP-VI	Insufficient	Sufficient	10-12 Months	Moderate	Improved	Improved	

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

1	2	3		4		
				Water savings in	cu.m.	
District	Name of the project	Name of major crop	through water saving devices ^{\$}	through water conserving agronomic practices [#]	Any other (pl specify)	Total
	WGH-	Paddy	NA	NA	NA	
W.G.H	IWMP-VI	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.
^{\$} Sprinkler, Drip, PVC pipe, etc.
[#] Vermi-compost, organic manuring, Mulching, Check basin, Alternate furrow, Ridges & furrow & other scientific practices.

 Table 7.6: Vegetation/ crop related outcomes:

Table 7.6.1 Details of Karif crop area and yield in the project areas:

1	2	3				4						5						6			
					Pre-	projec	et				Mi	d-tern	1				Р	Post-project Average			
Names of the District s	Name of Projects	Name of crops		rea a)	Yi (Qtl)	rage eld) per a.	Pro	'otal duction Qtl)	Ar (h	rea a)	Yi pe	erage ield r ha Qtl)	Prod	otal luction Qtl)	Ar (h	rea a)	Yi per	rage eld ha tl)	Total Producti (Qtl)		
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	
		Vegetable	-	5	-	30	-	150	-	5	-	30	-	150	6	4	36	30	216	150	
WGH	IWMP- VIIWGH																				
			-	18 7.9 7	-	68	-	2905. 64	-	100 .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

1	2	3	4	5			6							7					8	8		
						Pre-project						Mid	-term					Post-projec		et		
Sl No	Names of States	Names of the Districts	Name of Project s	Name of crops	Ar (h	rea a)	Yi (Qtl)	rage eld) per a.				rea la)	Ave Yie per (Q	eld ha	Produ	tal action (tl)		rea a)	Aver Yie per (Q	eld ha tl)	To Produ (Q	iction
			D		Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf	Irri	Rf.
	Meghalaya	WGH	WGH- IWMP-	Paddy	-	-	-	-	-	-	-	136. 6	-	15	-	204 9	197	-	15	-	2955	-
			VI	Vegeta bles	-	-	-	-	-	-	-	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			
						Pre-project						Mid-	term]	Post-p	rojec	t		
Sl No	Names of States	Names of the Districts	Name of Project s	Name of crops		Average		To Proc 0 (Q	lucti n	Area (ha)		Average Yield per ha (Qtl)		To Prod n (Q	uctio	tio Are (ha)		Averag Yield per ha (Qtl)		r ha		
			5		Irri	Rf.	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
	а	Garo	IWMP		nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	Nil
		Hills	VI		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	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 a	area under fodd	er (ha)		Achievement (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-VI	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			
			Existi	ng area tree o	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-II	5 yrs	Land use survey conducted by the Department	2010	36.50	30	-	66.50		

* 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	ea under horticu	llture (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-VI	5 yrs	Land use survey conducted by the Department	2010	124.37	40	-	164.37
124								

* 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 fodder	(ha)	A	chievement (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
WGH	WGH IWMP VI	5 Yrs.	NA	NA	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 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 the	Name of	Type of Animal		Pre-project			Mid-ter	·m		Post-proj	ect	Remarks
Districts	Projects	Type of Animal	No.	Yield	Income	No.	Yield	Income	No.	Yield	Income	Kemarks
		Cattle	143	300	9000	143	300	9000	-	-	-	Use for
		Piggery	102		200000	102		200000	117		350000	ploughing &
		Poultry	601	-	40000	601		40000	650		60000	local
		Goatery	107	100	3000	107	100	3000	-	-	-	consumption
	Total for all projects	-	953	400	216000	953	400	216000	767	-	410000	self production earning.

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					
Distri	Proj	Name of	Fund required	Sou	irces of f	unding (R	(s.)	Actual Expenditur	No	. of be	neficiar	ies trair	ned	No.	No. of beneficiaries taking up activity			
ct	ect	activity	for the activity (Rs.)	Project Fund	Benefi -ciary	Others (pl. specify)	Total	e incurred on activity (Rs.)	SC	ST	Othe rs	Wome n	Tot al	SC	ST	Oth ers	Wome n	Total
	W.G. HIW MP VI	Kitchen garden	-	4.00	-	-	4.00	-	-	-	-	-	-	-	-	-	-	-
W.G. H		Dug out Pond	-	3.00	-	-	3.00	-	-	-	-	-	-	-	-	-	-	-
11		Rice Mill		0.50			0.50	-	-	-	-	-	-	-	-	-	-	-
		Total	-	7.50	-	-	7.50	-	-	-	-	-	-	-	-	-	-	-

(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.

9		10	12						
No. of persons employed indirectly in the activity				Impact of livelihoods programmeMigrationDevelopment of backward- forward linkages					
Total	Grand Total (8+9)	activity (Rs.)	Pre-project	Post-project	Pre-project	Post-project	(pl. Specify)		
-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-		

Table 7.7.3 Details of other livelihoods created for landless people:

1	2	3	4	5			6	7				8							
			Fund required	Sour		nding (Rs khs	s.) in	Actual Expenditure	No.	of far	mers t	rained	No		rmers activit	ers taking ivity			
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 7		Total			
	W.G.H-	Wet Terrace	2.00	2.00			2.00	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL			
W.G.H	IWMP VI	Dug-out Pond	5.31	5.31			5.31	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL			
		Rubber Plantation	1.72	1.72			1.72	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL			
		Arecanut Plantation	1.72	1.72			1.72	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL			
		Piscicultur e	1.70	1.70			1.70	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL			
		Kitchen garden	0.25	0.25			0.25	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL			
		tailoring	1.70	1.70			1.70	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL			
		Piggery/Po ultry	2.16	2.16			2.16	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL			

Table 7.7.4 Details of other livelihoods created for farmers:

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

9		10			11		12		
	sons employed in the activity			Impact of livelil ration eneficiaries)	Development	ie of backward- l linkages	Any other information		
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	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 7.7.5 Details of other livelihoods created for farmers * (contd.)

 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		NIL	NIL
		(i) Seed certification	NIL	NIL	NIL
		(ii) Seed supply system	NIL	NIL	NIL
		(iii) Fertilizer supply system	NIL	NIL	NIL
		(iv) Pesticide supply system	NIL	NIL	NIL
		(v) Credit institutions	NIL	1	1
		(vi) Water supply	1	1	2
		(vii) Extension services	NIL	NIL	NIL
		(viii) Nurseries	NIL	NIL	NIL
WGH		(ix) Tools/machinery suppliers	NIL	NIL	NIL
WGH	IWMP-VI	(x) Price Support system	NIL	NIL	NIL
		(xi) Labour	NIL	NIL	NIL
		(xii) Any other (please specify)	NIL	NIL	NIL
		(A) Forward linkages			
		(i) Harvesting/threshing machinery	NIL	NIL	NIL
		(ii) Storage (including cold storage)	NIL	NIL	NIL
		(iii) Road network	1	1	1
		(iv) Transport facilities	NIL	NIL	NIL
		(v) Markets / Mandis	NIL	NIL	NIL
		(vi) Agro and other Industries	NIL	NIL	NIL
		(vii) Milk and other collection centres	NIL	NIL	NIL
		(viii) Labour	NIL	NIL	NIL
		(ix) Any other (please specify)	NIL	NIL	NIL

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 countr

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	
		Ground water structures repaired/ rejuvenated	nil	nil	nil	
		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	11 nos	24% irrigated	94% irrigated	
		Change in cropping/ land use pattern	-	Single cropping	Double Cropping	
		Area under agricultural crop				
		i Area under single crop	На	187.97	190.56	
		ii Area under double crop	На	200.50	260.90	
		iii Area under multiple crop	На	nil	nil	
	Meghalaya	Net increase in crop production area		187.97	207.70	10.5% increase in cropping area
1		Increase in area under vegetation		36.50	86.50	137% increase in vegetation cover
		Increase in area under horticulture		161.33	199.45	
		Increase in area under fuel & fodder		36.50	86.50	137% increase in vegetation cover
		Increase in milk production		NA	NA	NA
		No. of SHGs		nil	5	
		Increase in no. of livelihoods	Activities	 Agriculture Horticulture 	 Agriculture. Horticulture. vegetable Cultivation. Piggery. Poultry. 	
		Increase in income	Rs.	20000-30000	50000-60000	
		Migration	Nos	nil	nil	
		No. of school going children				
		SHG Federations formed	Nos.	nil	1	
		Credit linkage with banks	Nos.	nil	1	
		Resource use agreements	Nos.	None	a.) NOC fordevelopment work.b.) Agreements	
		WDF collection & management		None		
1		Summary of lessons learnt		Ni	1	
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 [#]
WGH	IWMP-VI	Daru	As per treatment Plan	54.75	86.2	-	-	1:1.57

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

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

ANNEXTURE-I

MAPS















ANNEXTURE-III

COST ESTIMATES

MODEL NORMS PER HACTARE FOR TERRACING (IWMP)

A. Technical Parameters .

Β.

G. Total	20000.00
	1200.00
	950.00
	850.00
	15000.00
	2000.00
	Amount.
	0.87
	62.32
	0.08
	779.00
	1200.00
	767.00
	2.5
	15.00
	G. Total

(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>Preliminar</u> works .	Y	
		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 sub - total	Rs. 300.00 <u>Rs. 400.00</u> Rs. 700.00
В.	<u>l st year</u> <u>Planting .</u>		
		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	<u>Rs. 400.00</u>
		sub-to	otal 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-te	otal Rs. 1000.00

Grand Total 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.

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>
	su	b-total Rs. 9000.00	1300.00
В.	<u>I st Year Planting .</u>		
	i) Cost of Fertilisers (NPK 45:30:45) including transportat	ion 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	<u>Rs. 1200.00</u>	
	Sul	b-total Rs. 4600.00	
C.	<u>II nd year maintenance .</u>		
	i) 2nd year weeding	<u> </u>	
	St	ub-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)

¹ /134	Excavatic structure (1) Ordin Soil. A.(ii) 3m. depth.	es. ary												
		1	x	^{π/} 4	х	(1.20)	х	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)	x	0.30		=	(-)0.34	m³		
	(;) lists ())		la.						=	9.74	m³		
	(i) Upto 3	sm.a	ept	n. @	Rs	•	61	/-	m³				Rs.	594.14
		1	x	8.00	x	0.50	x	0.45		=	1.80	m³		
				@	Rs	•	47	/-	m³				Rs.	84.60
²/69	Providing including (A) 1200 dia. Length =	; fixir mm	ng c	ollar w										
							@	Rs.	5621	/-	m		Rs.	35131.25
³/103	Providing	g and	d lay	/ing 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	x	0.10			0.16 5.11	m ³ m ³		
							@	Rs.	1065	/-	m ³		Rs.	5442.15

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

 -15

1 x	π Χ	4.20	х	1.50 x 0.15	=	2.97 m ³
1 x	π Χ	4.20	х	0.15 x 0.15	=	0.30 m ³
2 x	8.00 x	0.15	х	0.45	=	1.08 m ³
1 x	8.00 x	0.20	х	0.15	=	0.24 m ³ 4.59 m ³

@	Rs.	4090	/-	m³	Rs.	18773.10
GRAND TOTAL :						60025.24
Say Rs.	Say Rs. 60,000/-					
(Rupees Sixty Thousand) on	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				
	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 ³	
			=	38.26m ³	
		@ Rs. 47/- m ³			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 ³	
		@ Rs. 3571/- m ³			Rs. 9855.96
3/141(a).	Plain/ reinford	ement c.c. in open foundation	h 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 ³ 12.15m ³	
		2 x 2.00 x 0.45 x 0.75	=	1.35m ³	
	G/wall :	2 x 4.60 x 0.30 x 0.80 2 x 5.45 x 0.30 x 2.55	=	2.21m ³ 8.33m ³	
	Less :	2 x ½ x 3.20 x 0.30 x 1.35	= (-)	1.30m ³	
	W/wall:	2 x 4.00 x 0.30 x 3.35	=	8.04m ³	
	T/wall :	1 x 6.60 x 0.40 x 1.00	=	2.64m ³	
	Apron :	1 x 6.15 x 6.00 x 0.15	=	5.54m ³	
			=	47.96m ³	
		@ Rs. 4090/- m ³			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 ³ = 9.72m ³	
Less :	1 x ½ x 0.45 x 6.00 x 1.80	= (-) 2.43m ³	
		= 15.57m ³	
	@ Rs. 2714/- m ³		Rs. 42256.98
		GRAND TOTAL =	Rs. 250067.56
		Say, Rs. 2,50,000.0	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 M (i) Upto 3m d	oil. 1eans.		
	Core wall :	1 x 18.00 x 1.20 x 1.25	= 27.00m ³	
	L/Channel :	1 x 8.00 x 1.40 x 1.10	= 12.32m ³	
			= 39.32m ³	
		@ Rs. 47/- m ³		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	= 2.38m ³	
		@ Rs. 3571/- m ³		Rs. 8498.98
3/141.	Plain/reinfore (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 ³	
	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	
			$= 48.58 \text{m}^3$	

-2-

4/28.	Construction	of embankment.		
	Dam :	1 x 18.00 x <u>2.50 + 8.50</u> x 3.00 2	= 297.00m ³	
	Less :	1 x 18.00 x <u>0.40 + 0.80</u> x 2.50 2	= (-) 27.00m ³	
		2	$= 270.00 \text{m}^3$	
		@ Rs. 71/- m ³		Rs. 19170.00
5/100(I).	Providing and on slopeet (I) Stone /bou Dam U/S :			
		1 x 18.00 x 4.24 x 0.20	= 15.26m ³	
	L/Channel :	1 x 8.00 x 1.00 x 0.20	= 1.60m ³	
			$= 16.86 m^3$	
		@ Rs. 1086/- m ³		Rs. 18309.96
6/37.	Turfing with	sods.		
	Dam D/S :	1 x 18.00 x 4.24	$= 76.32m^2$	
		@ Rs. 46/- m ²		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 UNDER INTEGRATED WATERSHED MANAGEMENT PROGRAMME AS PER P.W.D. SCHEDULE OF RATES

AS PER P.W.D. SCHEDULE OF RATES FOR ROAD AND BRIDGES FOR ROAD FOR 2009-10.

FOR ROADS & BRIDGES AND E & D WORKS FOR THE YEAR 19-10.

 6	{	A + 4 B + C	}	m²					
A=	{	27.00	Х	27.00	}	m	=	729.00	m²
B=	{	24.00	Х	24.00	}	m	=	576.00	m²
C=	{	21.00	Х	21.00	}	m	=	441.00	m²
D=		1.51 m							

{ 6	A + 4 B + C	}	m²								
		+									
<u> 1.51 </u> {	729.00	+	(4	Х	576.00)	+	441.00	}	m³

6 = 874.28 m³

@ Rs 101/- m³ Rs. 88,302.28

 Total :
 Rs. 88,502.28

 Say,
 Rs. 88,500.00

Rupees (eighty eight thousand five hundred) only

PLAN FOR DUG-OUT POND





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/- m³ Rs. 660.35 2/137. P.C.C 1:3:6 in foundation.....etc. = 1.35m³ 1 x 10.00 x 1.35 x 0.10 @ Rs. 3571/- m³ 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/- m³ 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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CCC



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 14th April, 2011.



(Sanjay Goyal) Deputy Commissionet, West Garo Hills Dist, Tura. ABSTRACT OF PERSPECTIVE PLAN FOR CONVERGENCE OF NREGS WITH IWMP AT DARUGRE VILLAGE

UNDER DARU MICRO-WATERSHED, WGH-IWMP-VI

Total No. of Job Card Holder : 58 Nos Name of the Village : Darugre

678600.00 678600.00 ß ß н 11 Total Wages Component (@Rs. 177/- per m/days Amount earmarked for Convergence per annum

(Rupees Six lakhs seventy eight thousand six hundred) only

				and the second se	and the second se													
							ц ,	PROJECT PERIOD	RIOD									
N IO		LINI		2010-11			2011-12			2012-13			2013-14			Total		Mandays to
SL.NO	ACINIT		ЬΗΥ		FIN	λΗd	E	FIN	PHγ	FIN	N	РНҮ	FIN	7	ΡΗΥ	ш	FIN	be Generated
		4		Wages	material		Wages	Material		Wages	Material		Wages	Material	-	Wages	Material	
. –	Dug out pond @50,000/- per Number	Nos	9	300000		L.	50000		2	100000		9	30000		15	750000		6410
2	Stone masonry Protection wall@ 50,000/- per number	Nos	7	210000	140000	2	60000	40000	9	180000	120000	10	30000	20000	25	750000	50000	6410
б	Water harvesting farm pond@2,50,000/- per number.	Nos				1	150000	100000	1	150000	100000				2	30000	20000	2564
4	C.C. check cum irrigation dam@ 2,50,000/- per number	Nos	-	150000	100000	1	150000	100000	1	150000	100000			•	ω	450000	300000	3846
5	Earthern irrigation channel @ 50/-per Rmt.	Rmt	372	18600		352	17600		152	7600		172	8600		1048	52400		448
9	Wet terrace @ 15,000/- per Ha	На			•	10	150000	-	•						10	150000		1282
2	Rubber plantation: i)Planting @18,000/- per Ha	На	-			15	27000		5	0006					20	36000		308
	ii)Weeding@2,000/-per Ha	На			•	15	30000		20	40000		20	40000	,	20	110000		940
∞	Arecanut plantation: i)Planting @2,400/- Ha	На			1	10	24000	. 1	5	12000	,				15	36000		308
	ii)Weeding@2,000/-per Ha	На				10	20000		15	30000		15	30000	,	15	80000		684
				678600	240000		678600			678600	•		678600			2714400	100000	23200
	Amount allocated for convergence for the period 2010-11 to 2013-14	te period	12010-11 to	2013-14						/	ſ							
Ţ	1 Wages Component:	II	Rs.	2714	2714400.00			a.,	President		2					-	011	

President

P.O- Bandalitona, West Garo Hills,

1000000.00 3714400.00

Rs.

п

2 Material Components:

Grand Total

Rs.

п

V.E.C. Darugra N.R.E.G A.

Darugre VEC (MGNREGS)

Tikrikilla Block, WGH

Darugre VEC

Tikrikilla Block, WGH

Darugre VEC

Grand Total (Rupees Thirty seven lakhs fourteen thousand four hundred) only

								PROJECT PERIOD	DERIOD									
				2011-12			2012-13			2013-14			2014-15			Total		Mandays to be
SL.No	ACTIVITY	UNIT	РНҮ	LL.	FIN	HY	Ē	FIN	ΡΗΥ	H	FIN	PHΥ	FIN	Z	ΡНΥ	ш	FIN	Generated
				Wages	material		Wages	Material		Wages	Material		Wages	Material		Wages	Material	3
-	Dug out pond @50,000/- per Number	Nos	6	300000		2	100000		4	200000		2	100000		14	700000		5983
2	Stone masonry Protection wall@ 50,000/- per number	Nos	6	270000	180000	i.	r.	40000	2	6000	40000	9	180000	20000	17	510000	340000	4359
3	Water harvesting farm pond@2,50,000/- per number.	Nos				٢	150000	10000	-	150000	100000	2	300000	·	4	600000	400000	5128
4	C.C. check cum irrigation dam@ 2,50,000/- per number	Nos				2	30000	20000	-	150000	100000				e	450000	300000	3846
5	Earthern irrigation channel @ 50/-per Rmt.	Rmt	204	10200	,	84	4200		524	26200	1	304	15200		1116	55800		477
9	Wet terrace @ 15,000/- per Ha	Ha	5	75000	•	-		3			1	3			5	75000	'	641
7	Rubber plantation: i)Planting @18,000/- per Ha	На	с. С	1.1		15	27000		5	0006			· .		20	36000		308
	ii)Weeding@2,000/-per Ha	На			1	15	30000		20	40000	,	20	40000		20	110000		940
8	Arecanut plantation: i)Planting @2,400/- Ha	Ha	,		1	10	24000	,					r.		10	24000	1	205
	ii)Weeding@2,000/-per Ha	На		×.		10	20000		10	20000		10	20000	1	10	60000	r	513
	Grand Total			655200	180000		655200			655200	240000		655200	•		2620800	1040000	22400
	Amount allocated for convergence for the period 2011-12 to 2014-15	the period	2011-12 to	2014-15												A	all all	
-	Wages Component:	. "	Rs.	2620	2620800.00											J.V.E.	nalken .	
2	Material Components:	н	Rs.	1040(1040000.00			-	President					•	plane t	P. Becretary	P. Becretary	
	Grand Total	п	Rs.	3660	3660800.00			Banç	Bangdapara VEC	VEC					6	Bartigdapara VEC	para VEC	
	Grand Total (Rupees Thirty six lakhs sixty thousand eight hundred) only	sixty thous	and eight h	undred) only				Zikza	Zikzak Block, WGH	MGH						Zikzak B	Zikzak Block, WGH	
									W/I	1 M Marat	N.		· .					
							10	and of	V.E.	PERSONN V.B.G. (MAP	Ĺ.							
								Ca	DO DESENT	1-1-1								

P.O. Rational (M.R.H.

AGREEMENT FOR CONVERGENCE OF SCHEME

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

material component
 on Works which shall
 i material component

AGREEMENT FOR CONVERGENCE OF SCHEME

The Village Employment Councils (VEC) and the Communities of Bangdapara Village, Zikzak Block, West Garo Hills, Meghalaya have no objection to the Convergence of NREGS with Integrated Management Project (IWMP) at Bangdapara village under Daru Micro-Watershed, WGH-IWMP-VI 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 Worles which shall be taken up during the Project Period (2010-11 to 2013-14). The wage and material component under NRECS shall be utilised for following works:

1. Dugout Pond

2. Wet Terrace

3. C.C. Check cum Irrigation Dam.

4. Areca nut Plantation

5.Stone Masonry Protection Wall

6. Earthen Irrigation Channel

7.Water Harvesting Farm Poud

8. Rubber Plantation

President President Village Employment Council Bangdapara Zikzak Block, WGII



Village Employment Council Rangdapara Zikzak Block, WGH



rtary nent Council gre rck, WGH

Sri Dinonsing P. Sangma Nokma DARUGRI II-19 P.O.-BANDALKONA-794115 Dist. - West Garo Hills. Date 10.11. 2010

Subject - Arking Notemani Sorkarina No- Objection Contification see arani. Anga ta Dinon Sing P. Sangma Darugti Song Aiking (5) 11-19 Nok ma; Any ne Songna government Je Pasqueton Denolopmentranghile On china Notomani Kosako dorang song ni mander ang compleinant Kaina manjaara. Maine carany pilate Ankarini kam nong bongni Dokni mandenangene mikkanychi Uni givin songri mander angri nam nikan gita anga Dorugri songni Aiking Nakonani gita Sonkarina 110. Objection contricotiko see onrenga. 1-11-10 Derugri & Sirig Las

Henon Congran Hill Macha 1974115 Nokma Jarugri Killig (Land) West Son - Ifelle Deghalages

Smt. Remji M. Sangma Nokma Bangdapara A.king II-19(21) P.O. Salmanpara Dist. West Garo Hills Date : 8/12/10 Meghalaya. Sule: - No ofjection Sorthybiath for the water ceth Scheme Sir saya natimangna akeyoné nokomaoné gita ia Scheme los kaina angoni a alis ona maming lea mengnih oni dongjær hechte angri akig në man derang dea angri kalako complen kaina man jawa ina anya Aking nokona ni gita nadionangna Sahke on paenga your fiath fully Smit Renjë 14. Sangma Nokma Bangdapara Aking 11-19(21) P.O. Salmanpora Dist west brars Hill magualay · R.M.S. Smt. R. M. Sangma Nokma II-19(21) Bangdapara A king West Garo Hills