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 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 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:

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°59′52.80′′ to 90°01′55.20′′E Longitude and 25°23′52.80′′ to 25°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 2nd 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	erosion:				
		l w	W.G.H-		a	Sheet			
				b	Rill	500	NA	NA	
1	Meghalaya	W.G.H	IWMP-	С	Gully				
			VI	Sub	total	500	0	0	
				Wind e	rosion	Nil	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									
Sl.	Name	Name of the	Area		Names of	f Major soil types a		Average annual rainfall	Major cr	ops								
No.	of State	Agro- climatic zone	(in ha)	the districts	the Projects	a) Type	b) Area (ha)	in mm (preceding 5 years' average)	a) Name	b) Area (ha)								
									Paddy	135								
									Maize	15								
		Central			W.G.H-	W.G.H-	W.G.H-	W.G.H-	W.G.H-					Arecanut	80			
		Hyper-									H IWMP-	W.G.H- IWMP-	W.G.H-	W.G.H-	W.G.H-	W.G.H-		
1	Meghal aya	thermic Plateau	500 W.G.H	W.G.H	W.G.H	500 W.G.H	500 W.G.H	500 W.G.H	W.G.H IWM						3050	Ginger	12	
		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.

Table 2.4: Crop yield and production

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

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.

<u>Demographic Status</u>: 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 District	Name of Project		Parameters:		Stat	us		
	J	(i)	No. of villages connected to the main road by an all-weather road.	Nil				
		(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	Primary Health Nil				
WEST	TILL AD	(:)	Centre		N;1			
GARO	IWMP-	(vi)	No. of village with access Veterinary Dispensary	Nil Nil				
HILLS	VI	(vii) (viii)	No. of village with access Post Office	Nil				
		/	No. of village with access Banks	INII				
		(ix)			Nil			
		(x)	No. of village with access Agro-Industries Total quantity of surplus milk	Nil				
		(xii)	No. of milk collection centres		(C)	(DA)	(0)	
	(2			(U)	(S)	(PA)	(O)	
			(e.g. Union (U)/ Society (S)/ Private agency (PA)/ Others (O))	Nil	Nil	Nil	Nil	
		(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.

Table 2.6: Existing livestock population

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

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	I RPI I		Land holding (ha)			
Distric t	the Project	Farmer	household s household ds		Irrigated	Rainfed	Total		
	WEST	(i) Large	-	-	1	1	-		
WEST GAR			(ii) Small	158	-	-	318.26	318.26	
OAK	IWMP-	(iii) Marginal	-	-	-	-	-		
HILL S	VI	(iv) Landless	-	-	1	1	-		
3		Sub - Total	158			318.26	318.26		

Table 2.5: Common Property Resources in the Project Area

1	2	3	4						5	
Name of District	Name of the Projects	CPR Particulars		Total A Area owned/ In	rea (ha) 1 possession o	of		Area available	for treatment	(ha)
District	Flojects	raniculais	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	Ha
c)	Wastelands-open scrub		=	33.74	Ha
b)	Tree clad Area-open		=	367.10	Ha
a)	Agricultural land-crop land-kharif crop		=	176.33	Ha

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

CHAPTER III

PROJECT PLANNING & INSTITUTION BUILDING

3.1 Scientific Planning

- i) <u>Base Line Survey</u>: To establish a benchmark for assessing the impact of any intervention (pre-project & post project) a baseline survey is essential. The baseline survey included household census & socio-economic survey by using structured and semi –structured questionnaires, bio-physical survey to identify and assess the status of natural resources in the project area.
- ii) <u>Participatory Rural Appraisal</u>: To further obtain information on the project area, the people, resources, various PRA techniques like resource mapping, social mapping, seasonal calendars, matrix ranking, Venn diagrams were used.
- iii) GIS & Remote Sensing: To facilitate the process of prioritization and planning Geographic Information System was use. The land use and land cover (LULC) maps were prepared by the North Eastern Space Application Centre (NESAC) using the LISS III images (2006). The activities were located on the field by using GPS and accordingly transferred to the maps on GIS platform.

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

1	2	2
Sl.No.	Scientific criteria/ inputs used	No. of projects in which scientific criteria were used
Α.	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

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	
	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	Details of PIA				
		(i)	Type of organization#	Government		
		(ii)	Name of	Soil & Water Conservation (T)		
			organization	Division,		
W.G.H	W.G.H-IWMP-	(iii)	Designation &	Divisional Officer, Tura Soil & Water		
W.U.II	VI		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 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	M		ST									Cl-X	A-I
				Secretary	M		ST									MSc (Forestry	A-I
W.G.H	W.G.H- IWMP-VI	Daru	Under	Member	6 M		ST										Do
	1 44 1411 - 4 1		progress	Member	3 F		ST									Cl-II to Cl-VIII	Do
				Member													

A. PNP and PRA B. **Planning** C. Maintenance of Accounts D. Signing of cheques and making payments Supervision of construction activities Cost Estimation E. F. G. Verification & Measurement H. Record of labour employed Social Audit J. Any other (please specify). I.

ii) Self Help Group

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

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

1	2		3				4				5			6	
Names of the	Names of	Tot	al no. of reg	istered Sl	HGs	No.	of men	nbers			SC/S catego	T in each		of BPL catego	
Names of the Districts	projects	With only Men	With only Women	With both	Total	Categories	M	F	Total	M	F	Total	M	F	Total
	W.G.H-					(i) Landless									
W.G.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.

Table 3.4: User Group Details

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 i	in each
rvanies of Districts	Projects	Men	Wome n	Both	Total	Categories	M	F	Total	M	F	Total	M	F	Total
						(i)Landles s									
W.G.H	W.G.H					(ii) SF									
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	IWMP -VI					(iii) MF									
						(iv) LF									
Total															

CHAPTER IV PROJECT ACTIVITIES

CHAPTER IV PROJECT ACTIVITIES

4.1 Preparatory Phase:

i) Entry Point Activities (EPA)

(Financial – Rs. in lakh)

	1					•	`		to: III raitii)	
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	ect						Propo	sed Project					
S	Nam	Name				A	Ctorro	Augn		/ repair of uctures	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 (m³)	Estimat ed cost
1				Dug out Pond	-	-	-	1	-	-	-	ı	-	-	-	-	-	-	-
				C.C Check cum irrigation dam	-	-	-	-	-	-	-	5	90	675 m³	12.50	4	90	675 m³	10.00
	Meg halay	W.G.	W.G.H- IWMP- VI	Water harvesting farm pond	-	-	-	1	-	-	-	4	135	1012 m³	10.00	4	135	1012 m³	10.00
	a			Irrigation Channel	-	-	-	ı	-	-	-	340 rmt	70	-	0.17	340 rmt	70	-	0.70
					-	-	-	-	-	-	-								
			Total										335	2512 m³	22.67		335	2512 m ³	22.67

						8					9	10
				Ac	chievement	due to proje	ect					
Augi	Augmentation/ repair of existing structures Construction of new structures Total achievement											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			Pı	ropo	sed taı	get				A	chiev	emen	t due t	o proj	ect		
S	s of		Names of project	Type of structur		Area irrigate	repai re	menta r of ex chargi tructur	isting ng	new		ion of arging res	Total	target	repa r	gmentat ir of exi echargir structure	sting ig	new	struction rechain	ging	To achiev		Change in irrigate d area
O	States	cts	S	es		d (ha)	No.	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.	irrigate	Exp endi -ture incu rred		irri-	Expe ndi- ture incur red	irri-	Expe ndi- ture incurr ed	(Col. 8-6) (ha)
			WGH	(i)Dug out pond						5	10	5.31	10	5.31				0	0	0	0	0	
	Megh alaya	West Garo Hills				NIL		NIL								NIL							
				Total for the project						5	10	5.31	10	5.31									

4.2.3 Activities executed by User Groups in the Project Areas.

	2				3			
			Major activities o	f the UGs –Tar	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	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

4.2.4 Activities executed by User Groups in the Project Areas:

				4											
	Major activities of the UGs – Achievements														
Structure/ activity No. of UGs Expenditure No. of mandays Amount of WD															
Sl. No.	Type	No.#	Treated Area (ha.)	involved	incurred (Rs.)	SC	ST	F	collected (Rs.)						
-	-	-	-	-	-	-	-	-	-						
-	-	-	-	-	-	-	-	-	-						

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

1	2		3	
		Ma	ajor activities of the SH	IGs
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	assistance re (Amoun	ceived by th t in Rs.)	e SHG	T . 1	T 1	G	of S	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.)	I	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:

2	3		4			5	6			7	8			9		10	1	1	12		13
Names of	_								lemo	nstrat	Cash (Crop		•			conve	ention	Any other (please	specify)	Total cost incurred (Rs.
projects	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	In lakhs)
		(Rs)		(Rs)		(Rs		(Rs)						(Rs)		(Rs)					
			i)che ck	12.5 0		,	i)Wet Terra	2.00			i)Rubb er				Pisc icul				i)Kitchen Gardening(160Unit	0.25	
W.G.H	forest(10	8		2.00			ce(15 Ha)				on(40	1.72	Pig		ture	1.70			ii)tailoring	2.24	
VI	на)		tectio n	3.00							,		ger y/	2.16					iv)Basketing making	0.15	
				5 31							anut		ltry						v)rice mill	2.00	
			gout	3.31					-	_	on	1.72					-	-	vi)Agriculture implements.	1.15	
				10.0							(=====,								v)Carpentry	0.10	
			m pond	0															vi)Grocery	2.70	
			v)cha nnel	0.17																	
Total		1.0 8		30.9 8				2.00				3.44		2.16		1.70				13.3 9	54.75
	Names of projects W.G.H IWMP- VI	Ridge as treatmet Names of projects (a) i)Improv ement of degraded forest(10 Ha) VI	Names of projects (a) (b) (Rs) i)Improv ement of degraded forest(10 Ha) VI Total Ridge area treatment 1.0 (B) (Rs) 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.	Names of projects Ridge area treatment Drainast treatment	Ridge area treatment Drainage line treatment Nursery raising Land development	Ridge area treatment	Ridge area treatment Drainage line treatment Nursery raising Land development Land development Improvement of sement of degraded 8 Green tection n wall Iii) du gout pond Iiii) du gout pond Iiii) du gout pond Iiii) du gout pond Iiii) du gout pond Iiiii) du gout pond Iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	Ridge area treatment Drainage line treatment Nursery raising Land development Crop lemonstrat ions Development Cash Copevelopment Cash Copev	Ridge area treatment Drainage line treatment Ridge area treatm	Ridge area treatment	Ridge area treatment Drainage line treatment Ridge area treat	Ridge area treatment Drainage line treatment Nursery raising Land development L	Ridge area Drainage line Ireatment Projects Ridge area Ireatment Ridge area Ireatment Ireatment	Ridge are a treatment Projects Ridge are a treatment Ridge are a projects Ridge are a treatment Ridge are a treatm	Ridge are treatment Drainage line treatment Drainage line treatment Ridge are treatment Drainage line treatment Ridge are treatment Ridge are treatment Drainage line treatment Ridge are treatment Rid	Ridge	Names of projects Ridge area treatment Treatment				

4.2.8 Details of engineering structures in watershed works:

1	2	3		4			5		6			7	,		8								
			Тур	Type of treatment			Type of land				Target					Achievement							
District	Project	Name of structures	(i) Ridge Drainage area line (R) (D)		Land Dev. (L)	Private	Com-munity	Others ty (pl.	(iii) Other (pl.	(No./ cum./	Estii	timated cost (Rs in lakh)		completi on	No. of units (No./ cu.m./	(R		xpenditure incurred (Rs. in lakh)		Actual month & year of completion (mm/yyyy)			
									specify)	rmt)	M	W	Т	(mm/yyy y)	rmt)	M	WO	Т		· 33337			
		C.C.Check cum irrigation Dam		D			Community		UG/WC	4 Nos.	7.5	5	12.5	3 yrs									
		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	2.00	3 yrs									
W.G.H		Dug-out Pond		D		Private			UG/WC	17 Nos		5.31	5.31	3 yrs									
		Earthen Irrigation Channel		D			Community		UG/WC	340 Rm		0.17	0.17	3 yrs									
		Water harvesting farm pond		D					UG/WC	4 Nos	6	4	10	3 yrs									
		Total										17.6 8	32.98	3									

${\bf 4.2.9~Details~of~engineering~structures~in~watershed~works.}$

							9											
							Outcomes											
		Water le	evel (m)		luction iintal)	Income	Mandays generated No. of Income (Rs.)							lo. of benef	f beneficiaries			
Reduction in run off (cu.m)	uction in Area treated# off (cu.m) (ha)				·													
Tun on (cu.m)		Pre-project	Post project	Pre- project	Post project	Pre- 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)	Maize (20 Qlts)	10,000	14,300											

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

1	2	3		4			5		6			7							
			Type of treatment			Type of land			Executing agency		-	Γarget		Achievement					
District	Project	Name of structure/ work	(i) Ridge area (R)	(ii) Drainag e line (D)	(iii) Land dev. (L)	(i) Priva te		(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)		
		Improvemen t of Degraded Forest					√		WC/UG	10	10000	0.36	3 yrs						
	IWMP																		
W.G.H	-VI	Arecanut				V			Farmer	25	30,000	1.72	3 yrs						
		Rubber							Farmer	40	18,000	1.72	3 yrs						
													<u> </u>						
		Total								75		3.44							

[#] 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									
	Reduc	B 1 .:	1	Inc	come			Mandays	generated		No. of beneficiaries							
Name of activitie	tion in run off	Production	i (quintal)	(Rs.)													
S		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			

4.2.12 Details of allied / other activities:

1	2	3		4		5		6	,	7
				Type of	land	Executing agency		Target	Achie	vement
District	Project	Name of activity@	(i) Privat e	(ii) Communit y	(iii) Others (landless)	(i) UG (ii)SHG (iii) Others (pl. specify)	Estimated cost (Rs. in lakh)	Expected month & year of completion (mm/yyyy)	Expendi-ture incurred (Rs. in lakh)	Actual month & year of completion (mm/yyyy)
		Kitchen Gardening				Private	0.25	3 yrs		
		Agriculture implements				SHG/UG	1.15	3 yrs		
		Piggery/ Poultry				SHG/UG	2.16	3 yrs		
		Tailoring				SHG/UG	2.24	3 yrs		
West		Weaving				SHG/UG	4.80	3 yrs		
West	IWMP-VI	Basket making				Private	0.15	3 yrs		
Garo Hills	1 VV IVIP - V I	Fingerlings				Private	0.25	3 yrs		
111115		Carpentry				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	generated				No. of bene	eficiaries	
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
<u> </u>	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			A	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	Area treated under the	incurred	Actual no. of benefici		o. of man		WDF collected
					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. Project Area: 250.00 Ha.

(Figures in lakh)

							5 III lakiij						
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.		I st Yı	. (6%)	(14%)		(50%))	(25%)		(5%)		Tota	100%
No.	Activities	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.
ı	<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%	<i>3.7</i> 5
	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
E.	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
11	<u>Watershed Works Phase: 50 %</u>			7.50%	5.625	35%	26.25	7.50%	5.625			<i>50%</i>	37.50
A.	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	ı	_	30	0.21	-	-	-	-	-	-		0.21
	b) inipive of beginded rolest Trellin. @ 113.700) per rid												
	1 st year Planting @ Rs. 1900/- per Ha.	-	-	-	0.57	-	-	-	-	-	-		0.57

		_		_		_			- 40		- 10		
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
III	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

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	<i>50%</i>	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 .

Name of District: West Garo Hills

No. of village: 2 noS.

Name of C.& R.D. Block: Zikzak

Project Area: 500 Ha.

SI.		Darugr	e	Bangdapara		Total	
No.	Activities	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.
1	2	3	4	5	6	7	8
ı	Watershed works Phase :						
A.	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.	<u>Drainage Line Treatment :</u>						
	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
III	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
IV	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	ϵ	5	7	8	9			10				11		
S L	Name of State	Name of Distric	Names of Project	Year of sanct	Pro dura (dd/1 yy)	mm/	Area of the project	Projec t cost (Rs. In	Names of Micro watersheds & Code nos. (as per DoLR's	Treat	ed Area (l	na) of the pr	rojects				tails (ha)	
No	State	ts	S	ion	From	То	S	lakh)	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	}					4						5
						Funds	from other	sources in	n addition to	IWMP fui	nds	1		
Distric t	Name of Projects	IWMP	Fund	Converge	nce funds	P	PP	Com	nmunity		ntional ance		ers (Pl. ecify)	Total
		Central Share	State Share	Name of Scheme	Amount (Lakhs)	Name of private sector	Financial contri- bution	Name	Financial contri- bution	Name	Financi al contri- bution	Name	Financial contri- bution	
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	:
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	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
			Туре	of agreement	signed		ncial bution				
	Name	Name of Private								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.

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

1	2	3	4	5	6	7	8		9				
		Name		Name &						Performan	ice		
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 ^{\$}	Accreditation 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 fur	nding for training		s utilized akhs)
Stakeholders	of persons	trained so far	during current financial year	current financial year	a) DoLR	b) Any other (Pl. specify)	a) DoLR	b) Any other (Pl. specify)
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	3.73		0.73	1111
Community	218	Nil	218	Nil				
Others Pl. specify)	nil	Nil	nil	Nil				
Total	342	Nil	342	Nil	3.75	0	0.75	0

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

	1	2	3	4	5
	Activity	Executing agency	Estimated expenditure (Rs.)	Expenditure incurred (Rs.)	Outcome (may quantity, wherever possible)
1.	Awareness	S&WC (T) Division	0.40		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		

CHAPTER VII EXPECTED OUTCOME

CHAPTER VII EXPECTED OUTCOME

Table 7.1 Employment related outcomes:

	1							2										
Sl No	Name of				•	Wage em	ployn	nent				Self employment						
140	Village		N	lo. of man	days		No. of beneficiaries						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 maj	ed migration or activities of esponsible (b) Livelihoods
				N	I	L				

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

Table 7.3 Economic benefits accrued to women:

1	1	2	2		3	4
Wa	iges	Trai	ning	Li	velihoods	
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)
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.

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

1	2	3	4	5	6			7		8
Names of the Districts	Names of the	Names of the	Particular of CPR	Nature of	Period of	Be	neficiar fa	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	-	-

^{*} 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 fishin	ng [culture, harvest and sale]
	Fw	for right to	collect firewood for domestic purposes
	G	for right to	grazing for cattle and
	MFP	for right to	collect and sell minor forest produces
	P	for right to	passage across the CPR
	Rd	for right to	construct a road for access to individual property
	S/M	for right to	collect and sell sand and minerals
	T	for right to	collect timber for construction of house
	Wd	for right to	collect/ use water for drinking
	Wi	for right to	use water for irrigation
	O	for any right of	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
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	Comments		
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.

Table 7.5.3 Water Use efficiency:

1	2	3	4									
			Water savings in cu.m.									
District	Name of the project	Name of major crop	through water saving devices ^{\$}	through water conserving agronomic practices [#]	Any other (pl specify)	Total						
	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		Post-project					
Names of the District	Name of Projects	Name of crops		Area (ha)		Average Yield (Qtl) per ha.		Total Production (Qtl)		Area (ha)		Average Yield per ha (Qtl)		Total Production (Qtl)		rea a)	Average Yield per ha (Qtl)		Total Production (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	1512

^{*} From column no. 2, total number of States; from column no. 3, total no. of Districts; from column no. 4, total no. of projects, from column no. 5, total no. of crops; from column no. 6 to 8, the totals for the area, average yield per ha and total production, category-wise, for the entire country may be given at the end of the Table.

Irri. – Irrigated Rf – Rainfed

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

1	2	3	4	5			6)					ı	7					8	8		
							Pre-pi	roject					Mid	term					Post-p	rojec	et	
Sl No	Names of States	Names of the Districts	Name of Project	Name of crops	Ar (h			_	To Prod o (Q	lucti n		rea ia)	Aver Yie per (Q	eld ha	Produ	tal action (tl)		rea (a)	Aver Yie per (Q	eld ha	To Produ (Q	ıction
			5		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	-	ı	-	-	-	1	ı	6	ı	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

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

1	2	3	4	5			6						7	7					8			
							Pre-pi	roject					Mid-	term]	Post-p	rojec	t	
Sl No	Names of States	Names of the Districts	Name of Project	Name of crops	Ar (h	rea a)	Yi	rage eld) per a.	Proc	tal ducti n (tl)		rea ıa)	Aver Yie per (Q	eld ha	Tot Produ n (Q	uctio	Arc (ha		Aver Yie per (Q	eld ha		otal action otl)
			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
	a	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

^{*} 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 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	ılture (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)	Ac	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:

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

1	2	3		4			5			6		7
Names of the	Name of	Type of Animal		Pre-proj	ject		Mid-ter	rm		Post-proj	ect	Remarks
Districts	Projects	Type of Allinai	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.

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

Table 7.7.2 Details of other livelihoods created for landless people:

1	2	3	4			5		6			7					8		
Distri	Proj	Name of	Fund required	Sou	irces of f	unding (R	Rs.)	Actual Expenditur	No	. of be	neficiar	ies trair	ned	No. of beat t SC ST		neficia activ		ng up
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	Kitchen garden	-	4.00	-	1	4.00	1	1	-	-	1	1	1	1	1	1	-
W.G. H	MP VI	Dug out Pond	-	3.00	-	ı	3.00	ı	ı	-	-	ı	ı	ı	ı	ı	ı	-
11	٠.	Rice Mill		0.50			0.50	-	-	-	-	-	-	-	-	-	-	-
		Total	-	7.50	-	-	7.50	-	-	-	-	-	ı	ı	1	-	-	-

(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 nors	one omployed			Impact of livelil	noods programme		
	ons employed in the activity	Annual increase in income due to		ration eneficiaries)	_	of backward- linkages	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 Sources of funding (Rs.) in						7				8	
			Fund required	Sour		nding (Rs khs	s.) in	Actual Expenditure	No.	of far	mers t	rained	No		rmers activit	taking y
District	Project	Name of activity	for the activity (Rs.) in lakhs	Project Fund	Benefi -ciary	Others (pl. specify)	Total	incurred on activity (Rs.)	SF	MF	LF	Total	SF	MF	LF	Total
	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

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

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

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

^{*} 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	Ha	187.97	190.56	
		ii Area under double crop	Ha	200.50	260.90	
		iii Area under multiple crop	Ha	nil	nil	
		Net increase in crop production area		187.97	207.70	10.5% increase in
	Meghalaya					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	1.) Agriculture	1. Agriculture.	
				2) Horticulture	2. Horticulture.	
					3. vegetable	
					Cultivation.	
					4. Piggery.	
		T	D	20000 20000	5. Poultry.	
		Increase in income	Rs.	20000-30000	50000-60000	
		Migration	Nos	nil	nil	
		No. of school going children	NT.	1	1	
		SHG Federations formed	Nos.	nil	1	
		Credit linkage with banks	Nos.	nil	l -) NOC f- :	
		Resource use agreements	Nos.	None	a.) NOC for	
					development work. b.) Agreements	
		WDF collection & management		None	b.) Agreements	
		Summary of lessons learnt		None Nil		
		Summary of lessons learnt		NII		

Table 7.10 Cost effectiveness of structures/ activities*

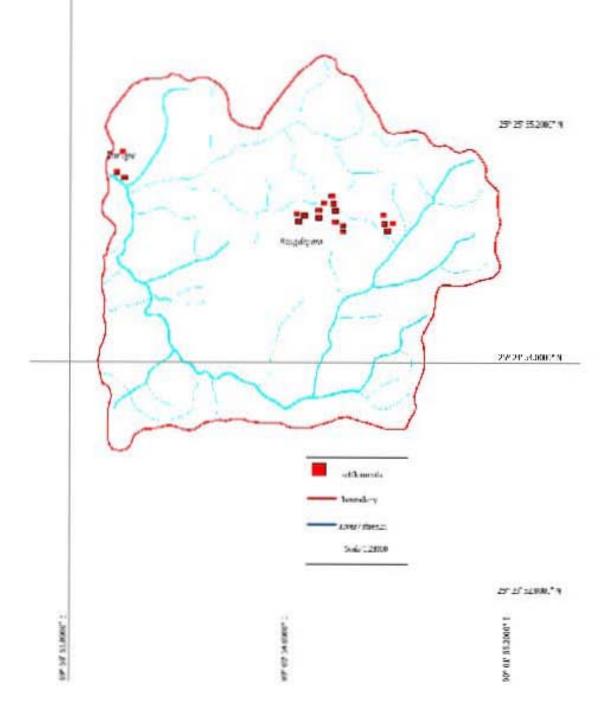
1	2	3	4	5	6	7	8	9
District	Name of project	Name of WC	Name of structure/ activity	Estimated cost (Rs.)	Expected quantifiable benefits (Rs.)	Expenditure incurred (Rs.)	Actual quantifiable benefit (Rs.)	Benefit: Cost ratio [#]
WGH	IWMP-VI	Daru	As per treatment Plan	54.75	86.2	-	-	1:1.57

^{*} 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.

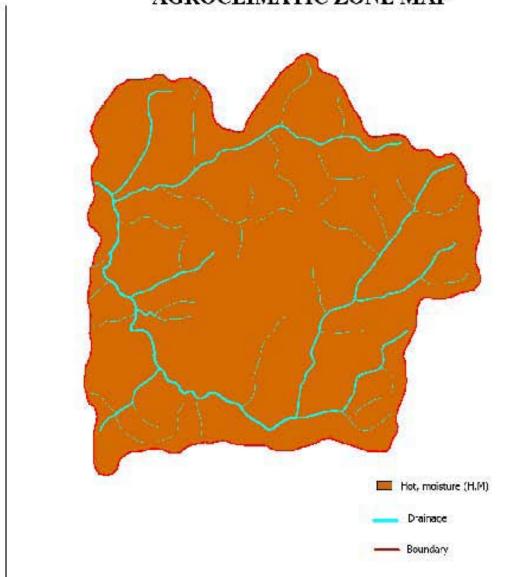
^{*}B:C ratio more than 1 – cost effectiveless than 1 – Not cost effective

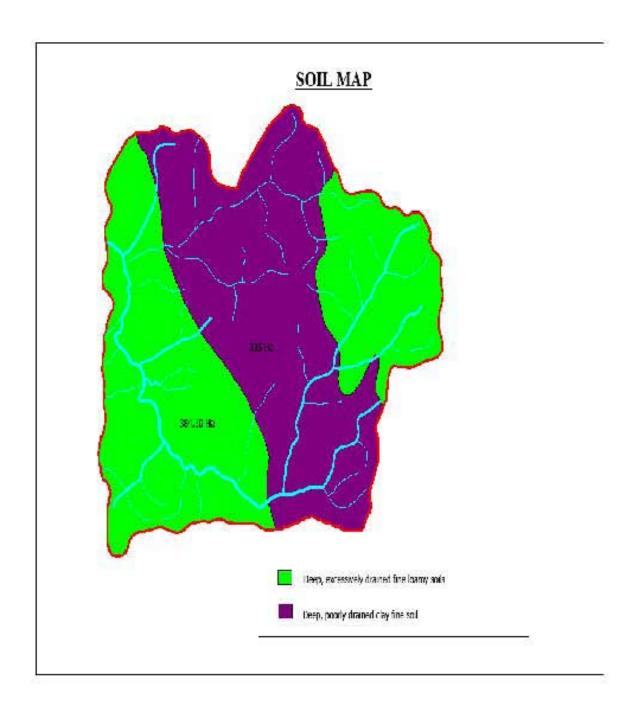
ANNEXTURE-I MAPS

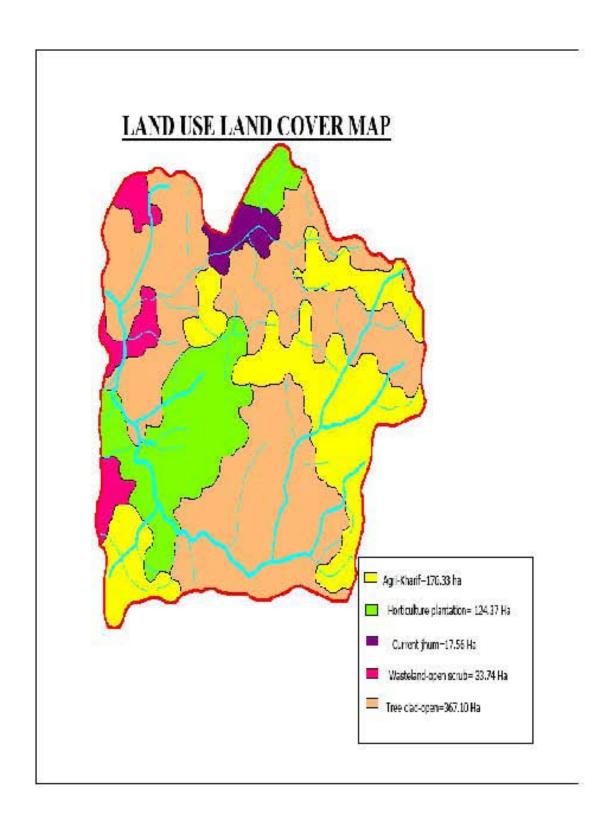
DRAINAGE MAP

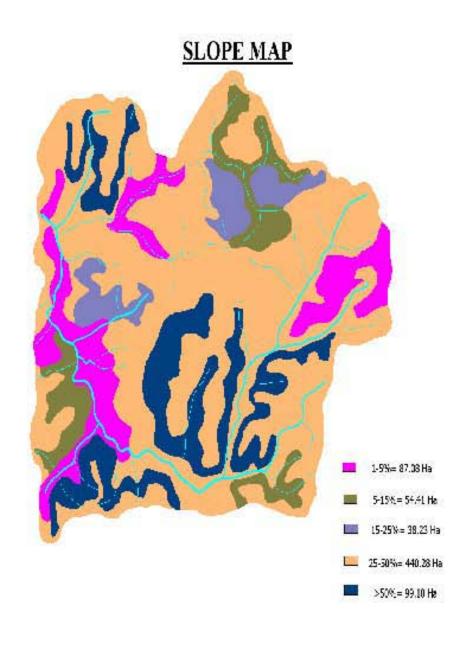


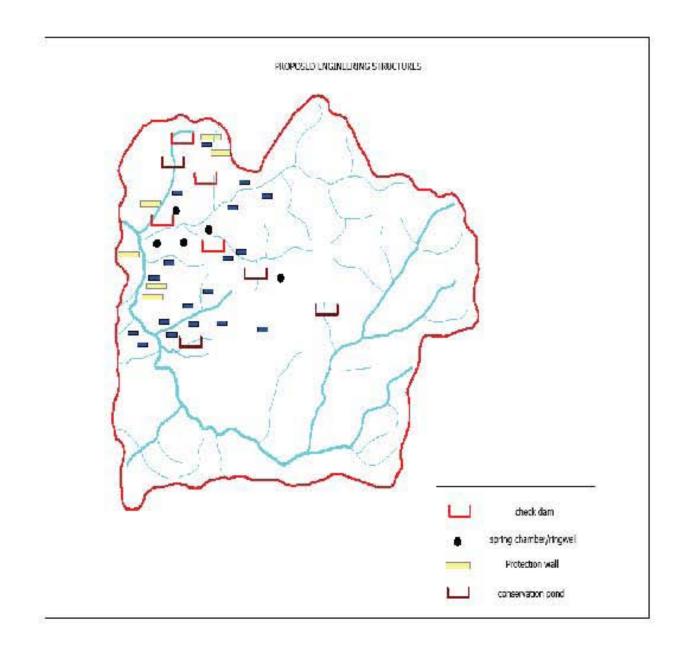
AGROCLIMATIC ZONE MAP

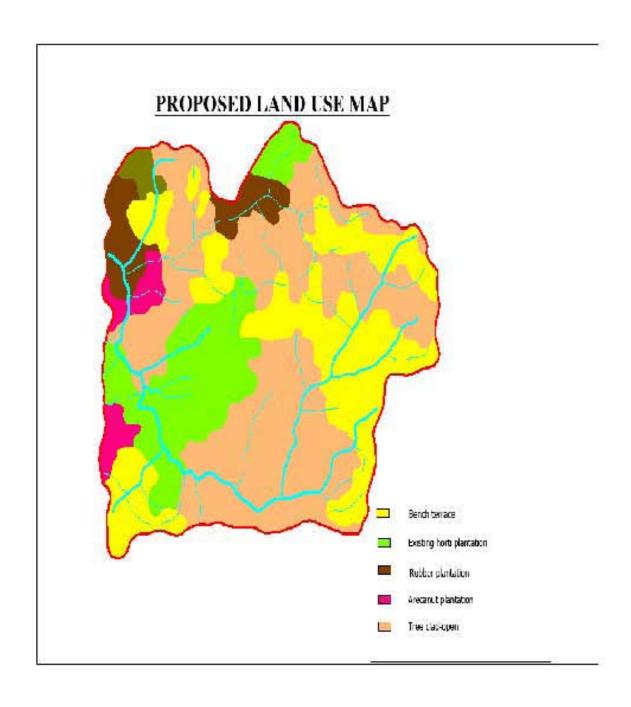












ANNEXTURE-III COST ESTIMATES

MODEL NORMS PER HACTARE FOR TERRACING (IWMP)

A. Technical Parameters .

	i) Average terrace width recommended (m)	15.00
	ii) Vertical Interval (VI) = W x S/100 - S	2.5
	iii) Terrace Length (m) = A/W + VI	767.00
	iv) Earthwork = $12.50 \times W \times S m^3$	1200.00
	v) Shoulder Bund Length	779.00
	vi) Shoulder Bund Length x-section (m²)	0.08
	vii) Earthwork for shoulder Bund (m³)	62.32
	viii)Area available for cultivation (Ha.)	0.87
В.	Cost estimate .	Amount.
	i) Jungle clearance including uprooting of stumps	
		2000.00
	(L/s)	2000.00
		2000.00 15000.00
	(L/s)	
	(L/s) ii) Cost of terracing @ Rs. 10/- m³	15000.00
	(L/s) ii) Cost of terracing @ Rs. 10/- m³ iii) Cost of shoulder Bund @ Rs. 7/- m³	15000.00 850.00

(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)

A. <u>Preliminary</u> works .

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 Rs. 400.00

sub - total Rs. 700.00

B. <u>I 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
Sub-total Rs. 1900.00

C. <u>II year</u> Planting .

i) Refilling 10%
 ii) Round weeding - 4 times- 5 mandays @ Rs. 100/- each
 iii) Plant protection measures - 4 mandays @ Rs. 100/- each
 Rs. 400.00

Sub-total 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.

A.	<u>Preliminary works</u>
	i) Cost of seedling L/s
	<u>Rs. 1350.00</u> <u>500.00</u> sub-total Rs. 9000.00 1300.00
В.	<u>Ist Year Planting .</u>
	i) Cost of Fertilisers (NPK 45:30:45) including transportation Rs. 2000.00 ii) Cost of 2 times application (June-July and September - October) 14 mandays @ Rs. 100/- each Rs. 1400.00 iii) 1st year weeding Rs. 1200.00 Sub-total Rs. 4600.00
C.	II nd year maintenance .
	i) 2nd year weeding <u>Rs. 2700.0</u> 0 Sub-total Rs. 2700.00
	Grand Total Rs. 8600.00
	(Rupeeseight thousand six hundred) only.

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

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

(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)

Excavation for

1/134 structures.
(1) Ordinary
Soil.
A.(ii) 3m. to 6 m.
depth.

1 x
$$^{\pi/4}$$
 x (1.20) x 5.25 = 5.93 m³
1 x $^{\pi/4}$ x (4.20) x 0.30 = 4.15 m³
Less: 1 x $^{\pi/4}$ x (1.20) x 0.30 = (-)0.34 m³
= 9.74 m³
(i) Upto 3m.depth.

2/69 Providing and paying reinforced c.c.pipe for ring well including fixing collar with cement mortar 1:2 etc.
 (A) 1200mm

dia.

Length = 6.25 metres.

³/103 Providing and laying of dry rubble flooring complete.

1 x
$$\pi$$
 x 4.20 x 1.50 x 0.25 = 4.95 m³
1 x 8.00 x 0.20 x 0.10 = 0.16 m³
5.11 m³

Rs.

594.14

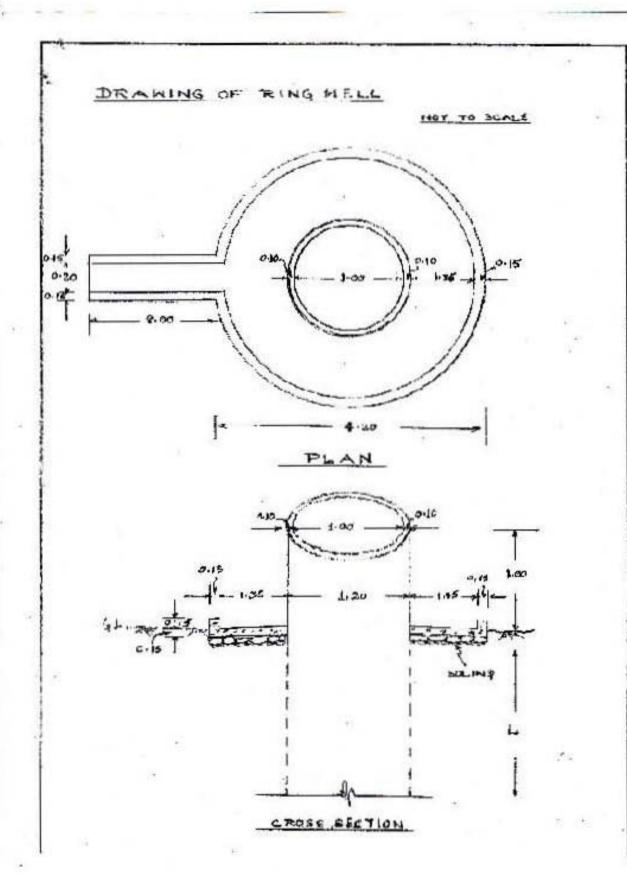
⁴/141 Plain/Reinforced c.c. in open foundation complete. (A) PCC G - M -15

4090 /- m³ 18773.10 @ Rs. Rs. **GRAND TOTAL:** Rs. 60025.24

Say Rs.

60,000/-

(Rupees Sixty Thousand) only.



ESTIMATE FOR THE CONSTRUCTION OF C.C CHECK DAM.

(Based as per P.W.D., Schedule of rates for roads, bridges and E & D works for the year 2009-2010).

1/134. Excavation for structures.

(I)Ordinary soil.

A. Manual means.

(i)Upto 3.00m depth.

15.00m³ M/dam: 1 x 10.00 x 1.20 x 1.25 $3.68m^{3}$ G/wall: 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 $3.20m^{3}$ W/wall: = $3.96m^{3}$ T/wall: 1 x 4.60 x 6.00 x 0.45 Apron:

38.26m³

@ Rs. $47/- m^3$ Rs. 1798.22

2/137. Providing c.c. work in 1:3:6 foundation etc.

> 2.76m³ M/dam: 1 x 10.00 x 1.20 x 0.23

> > @ Rs. 3571/- m³ Rs. 9855.96

Plain/ reinforcement c.c. in open foundation etc. 3/141(a).

> $9.00m^{3}$ M/dam: 1 x 10.00 x 0.90 x 1.00

12.15m³ $1 \times 10.00 \times 0.45 + 0.90 \times 1.80 =$

2

1.35m³ 2 x 2.00 x 0.45 x 0.75

2.21m³ G/wall : 2 x 4.60 x 0.30 x 0.80 =

> 2 x 5.45 x 0.30 x 2.55 = 8.33m^3

1.30m³ Less: 2 x ½ x 3.20 x 0.30 x 1.35 = (-)

 $8.04m^{3}$ W/wall: 2 x 4.00 x 0.30 x 3.35

2.64m³ = T/wall: 1 x 6.60 x 0.40 x 1.00

5.54m³ Apron: 1 x 6.15 x 6.00 x 0.15

47.96m³

@ Rs. 4090/- m³ Rs. 196156.40

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

> $8.28m^{3}$ = 8.28m³ = 9.72m³ Apron: 1 x 4.60 x 6.00 x 0.30

1 x ½ x 1.80 x 6.00 x 1.80

= (-) 2.43m³ 1 x ½ x 0.45 x 6.00 x 1.80 Less :

15.57m³

@ Rs. 2714/- m³ Rs. 42256.98

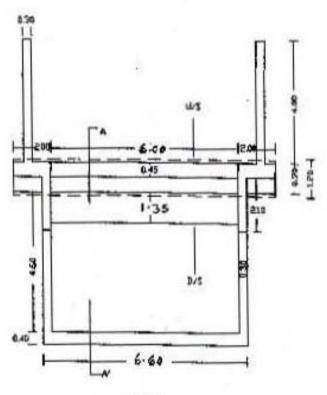
GRAND TOTAL = Rs. 250067.56

Say, Rs. 2,50,000.00

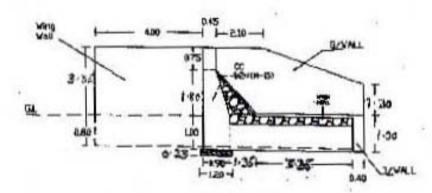
(Rupees Two lakh fifty thousand) only.

C. C. CHECK DAM

Not to Scale



PI AN



C/S At A-A'

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 for structures.
 - (I) Ordinary soil.
 - (A) Manual Means.
 - (i) Upto 3m depth.

Core wall: $1 \times 18.00 \times 1.20 \times 1.25 = 27.00 \text{m}^3$

L/Channel : $1 \times 8.00 \times 1.40 \times 1.10$ = 12.32m³

= 39.32m³

@ Rs. 47/- m³ Rs. 1848.04

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

Core wall: $1 \times 18.00 \times 1.20 \times 0.11 = 2.38 \text{m}^3$

@ Rs. 3571/- m³ Rs. 8498.98

3/141. Plain/reinforced c.c in open foundation complete.

(A) P.C.C M-15.

Core wall : $1 \times 18.00 \times 0.40 + 1.00 \times 3.50 = 44.10 \text{m}^3$

2

L/channel : $2 \times 8.00 \times 0.20 \times 1.15$ = 3.68m^3

 $1 \times 8.00 \times 1.00 \times 0.10 = 0.80 \text{m}^3$

 $= 48.58 \text{m}^3$

-2-

4/28. Construction of embankment.

Dam : $1 \times 18.00 \times 2.50 + 8.50 \times 3.00 = 297.00 \text{m}^3$

2

Less: $1 \times 18.00 \times 0.40 + 0.80 \times 2.50 = (-) 27.00 \text{m}^3$

 $= 270.00 \text{m}^3$

@ Rs. 71/- m³ Rs. 19170.00

5/100(I). Providing and laying stone/ boulders pitching

on slope ...etc.

(I) Stone /boulders.

Dam U/S:

 $1 \times 18.00 \times 4.24 \times 0.20$ = 15.26m³

L/Channel: $1 \times 8.00 \times 1.00 \times 0.20$ = 1.60m^3

= 16.86m³

@ Rs. 1086/- m³ Rs. 18309.96

6/37. Turfing with sods.

Dam D/S: $1 \times 18.00 \times 4.24 = 76.32 \text{m}^2$

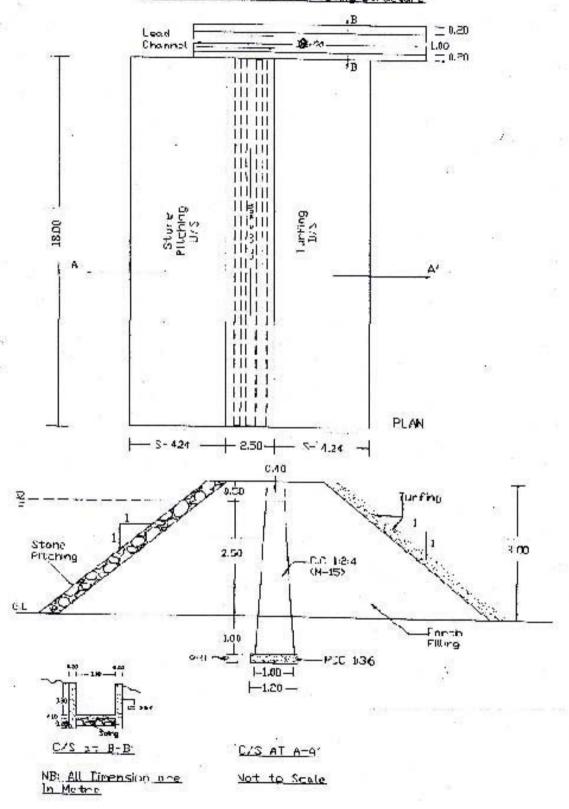
@ Rs. 46/- m² Rs. 3510.72

GRAND TOTAL = Rs. 250029.90

Say, Rs. 2,50,000.00

(Rupees Two lakh fifty thousand) only.

C.C. Core Wall With Eurthern Filed Dom Entankness:) Fur Yuter Harvesting Structure



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

FOR ROADS & BRIDGES AND E & D WORKS FOR THE YEAR 2009-10.

1.	Site preparation	L/s .										Rs.	200.00
2/67		Earth per	work	in exca	vation	for found		n of s	tructures	upto 3 m	depth as		
		<u>D</u>	_ {	A + 4 B + C	}	m²							
		A=	{	27.00	Χ	27.00	}	m	=	729.00	m²		
		B=	{	24.00	Х	24.00	}	m	=	576.00	m²		
		C=	{	21.00	X	21.00	}	m	=	441.00	m²		
		D=		1.51 m									
		<u>D</u>	{	A+4 B+C	}	m²							
		1.51	{	729.00	+	(4	X	576.00)	+ 441.	00 }	m³

@ Rs 101/- m³ Rs. 88,302.28

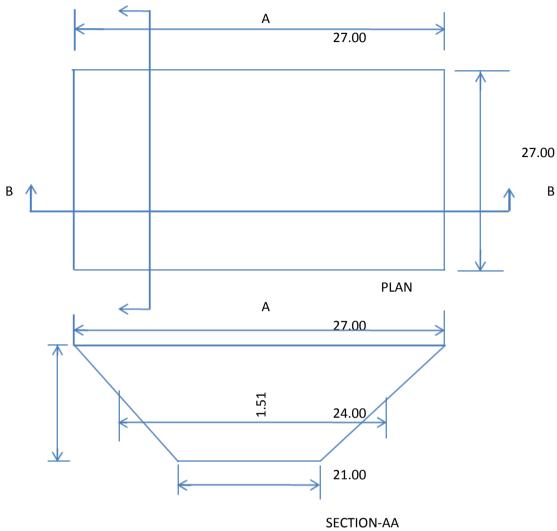
Total:

Say, Rs. 88,500.00

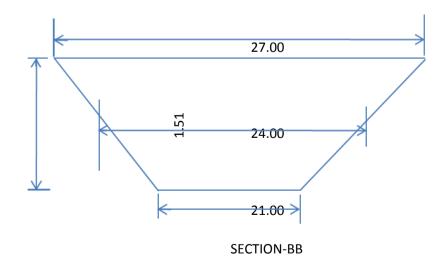
Rs. 88,502.28

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.

$$1 \times 10.00 \times 1.35 \times \% (1.10 + 0.60) = 11.48 \text{m}^3$$

$$1 \times 10.00 \times \% \times 1.35 \times 0.38$$
 = 2.57m^3 = 14.05m^3

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

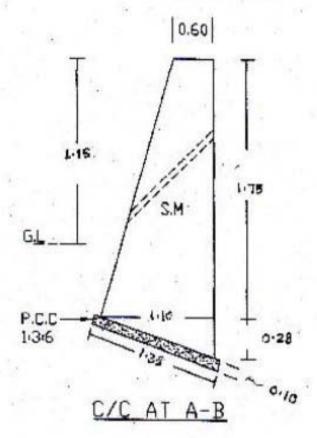
$$1 \times 10.00 \times 1.35 \times 0.10$$
 = 1.35m^3

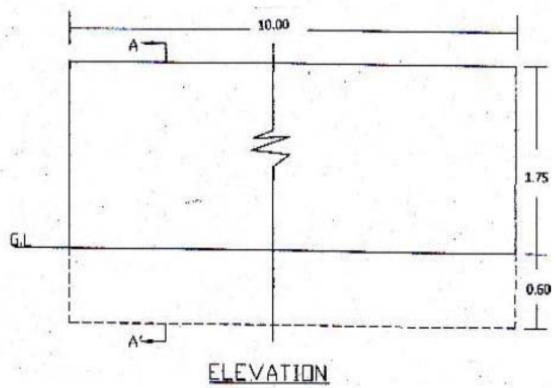
3/140(b). Stone masonry works in cement mortar 1:3 etc.

$$1 \times 10.00 \times 0.60 + 1.10 \times 1.75$$
 = 14.88m^3
 $1 \times 10.00 \times 1 \times 1.10 \times 0.28$ = 1.54m^3
= 16.42m^3

(Rupees Fifty thousand) only.

STONE MASONRY PROTECTION WALL Not to Scale





ANNEXTURE-IV MoA, Sub Committee Details Etc.

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



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

TO WHOM IT MAY CONCERN

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

Dared: <u>Tura</u> The 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

Name of the Village : Darugre

Total No. of Job Card Holder: 58 Nos

Total Wages Component (@Rs. 177/- per m/days

678600.00

Amount earmarked for Convergence per annum

678600.00

(Rupees Six lakhs seventy eight thousand six hundred) only

			PROJECT PERIOD															
SL.No	ACTIVITY	10.07		2010-11			2011-12			2012-1	3		2013-1	4		Total	-	Mandays to
SL.NO	ACTIVITY	UNIT	PHY	F	FIN	PHY	ı	FIN	PHY	F	FIN	PHY	F	IN	PHY	F	FIN	be Generated
		-		Wages	material		Wages	Material		Wages	Material		Wages	Material		Wages	Material	
1	Dug out pond @50,000/- per Number	Nos	6	300000		1	50000		2	100000		6	300000		15	750000		6410
2	Stone masonry Protection wall@ 50,000/- per number	Nos	7	210000	140000	2	60000	40000	6	180000	120000	10	300000	200000	25	750000	500000	6410
3	Water harvesting farm pond@2,50,000/- per number.	Nos	4			1	150000	100000	1	150000	100000			-	2	300000	200000	2564
4	C.C. check cum irrigation dam@ 2,50,000/- per number	Nos	1	150000	100000	1	150000	100000	1	150000	100000				3	450000	300000	3846
5	Earthern irrigation channel @ 50/-per Rmt.	Rmt	372	18600		352	17600		152	7600	-	172	8600		1048	52400		448
6	Wet terrace @ 15,000/- per Ha	На				10	150000	-	-						10	150000		1282
7	Rubber plantation: i)Planting @18,000/- per Ha	На				15	27000	-	5	9000					20	36000		308
	ii)Weeding@2,000/-per Ha	На	-	-	-	15	30000	-	20	40000		20	40000		20	110000		940
8	Arecanut plantation: i)Planting @2,400/- Ha	На			3	10	24000		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	1000000	23200

Amount allocated for convergence for the period 2010-11 to 2013-14

1 Wages Component:

Rs.

2714400.00

2 Material Components:

Rs.

1000000.00

Grand Total

Rs.

3714400.00

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

President

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

P.O- Bandalkona, Wast Garo Hills,

President

Darugre VEC

Tikrikilla Block, WGH

Darugre VEC

Tikrikilla Block, WGH

								PROJECT	PERIOD									1
CL NI-	ACTIVITY		2011-12				2012-13			2013-14			2014-1	5	Total			Mandays to b
SL.No	ACTIVITY	UNIT	PHY	F	IN	PHY FIN		PHY	PHY FIN		PHY	F	=IN	PHY	FIN		Generated	
				Wages	material		Wages	Material		Wages	Material		Wages	Material		Wages	Material	
1	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	9	270000	180000	-		40000	2	60000	40000	6	180000	200000	17	510000	340000	4359
3	Water harvesting farm pond@2,50,000/- per number.	Nos			-	1	150000	100000	1	150000	100000	2	300000		4	600000	400000	5128
4	C.C. check cum irrigation dam@ 2,50,000/- per number	Nos	-		-	2	300000	200000	1	150000	100000				3	45000 <u>0</u>	300000	3846
5	Earthern irrigation channel @ 50/-per Rmt.	Rmt	204	10200	-	84	4200		524	26200		304	15200	-	1116	55800		477
6	Wet terrace @ 15,000/- per Ha	На	5	75000	-	*	-	-			-	-	-	-	5	75000		641
7	Rubber plantation: i)Planting @18,000/- per Ha	На		-	-	15	27000	٠.	5	9000	-				20	36000	i.e	308
	ii)Weeding@2,000/-per Ha	На			-	15	30000		20	40000	- 4	20	40000		20	110000	-	940
8	Arecanut plantation: i)Planting @2,400/- Ha	На	v	*		10	24000								10	24000		205
	ii)Weeding@2,000/-per Ha	На	-	-		10	20000		10	20000	-	10	20000	-	10	60000	-	513
	Grand Total		122	655200	180000		655200			655200	240000		655200			2620800	1040000	22400

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

Wages Component:

2620800.00

2 Material Components:

Rs.

1040000.00

Grand Total

3660800.00

Grand Total (Rupees Thirty six lakhs sixty thousand eight hundred) only

President

Bangdapara VEC

Zikzak Block, WGH

ongerpero V.B.Q. (MR+

P.O Randalpker.

Zikzak Block, WGH

AGREEMENT FOR CONVERGENCE OF SCHEME

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

on Works which shall treaterial component

AGREEMENT FOR CONVERGENCE OF SCHEME

Watersteid, WOH-IV/MP-VI being into emercial by Thira Not & Water Conscipation (T) Division. Village. Zikzak Block, West Gard Hills, Meghalaya hazu no objection to the Convergence of NERGY with Integrated Management Protect (IMME) at Banjelapara village under Dann Micro-The Village Employment Councils (VFC) and the Lineauminines of Bangdapara

under NREUS abail be in isser for following works: by taken up during the Project Fer had [2019-11 to 2019-14]. The wage one maketial component under NRT65 in our Annual Work Plus for various Soil &Water Loaseavation Works which shall We also agreed to allocated and commit filtrats for wage as well as material component

- 1. Dugcut Pond
- 2. We: Terrace
- 3. C.C. Check cam Irrigation Done
- 4 Areca not Perculion
- 5 Stone Massary Protection Wall
- 6 Rarthun Int gation Channel
- K Kabbes Physickin

7. Water Licevesting Harm Pand

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Bangdapara

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Village Employ: ont Charel

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Sri Dinonsing P. Sangma

Nokma

DARUGRI II - 19 P.O. - BANDALKONA - 794115 Dist. - West Garo Hills.



Date 10-11- 2016

Subject: Acking Nokmani Sonkarina No-Objection Certificatile see oxiani.

Anga la Binon Sing l. Sangma Bangri Song

Aiking (5) 11-19 Nokma; Anyni Songma government

je lavjiet-ni Anolopment ronghiba trickina Nokmani

ko sako donang Stong ni man derang Complainant

ko sako donang Stong ni man derang Complainant

kaina man jawa. Mawa carang pilak Sonkorini

kaina man jawa. Mawa carang pilak Sonkorini

kaina man jawa. Makai mandinangna mikkanychi

janggi tangani chol Miga.

Uni ginin songri mandarangni nam nikani gita anga Dorugri songri Aking Nakmani gita sonkarina 140. Objection conticotho see oninga.

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Forom Lin

Smt. Remji M. Sangma

Bangdapara A·king II-19(21) P.O. Salmanpara Dist. West Garo Hills Meghalaya.



Date: 8/12/10

Sule: No ofjection Sorthytiate for the wlater ceth

Sir taga nasimang na akeyoné notomana gita
ia Seheme to ka na angoni a alio ona onaming lea
onengnir oni dang jan dealsa angoni aliy mi
onan berang lea angoni kolaho complen ka na onan jawa
ina anga Aking mohana oni gita nasimangona
sahki on paenga

bout Renje M. Sangma
Nokona
Bangdepara Aking 11-19(21)
P.O. Salmanyora
Dist West bross Hill megnalay

. R.M.S.

Smt. R. M. Sangma Nokma II-19(21) Bangdapara A-king West Garo Hills