GOVERNMENT OF MEGHALAYA



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



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

SUMMARY

Name of the Sate : Meghalaya

Name of the District : West Garo Hills

Name of the C&RD Block : Tikrikilla

Name of the Villages : 1) Dabang Gajingpara (11) Dabang

Ampangdamgre

Name of the Project : IWMP-IX

Total Geographical Area : 570.40 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 Upper Dabang (IWMP) Project is located in Tikrikilla C&RD Block, West Garo Hills District of Meghalaya. Consisting of a single micro-watershed, the project area is drained by the Dabang Stream and its tributaries flowing in a north to south direction. The total area is570.40 Ha. with 500 Ha to be treated under the Integrated Watershed Management Programme (IWMP). The Project area is located at a distance of about 20 km from Tikrikilla the C & R D Block and about 145 km from Tura the District Headquarter . A total of two villages are covered under the project. These are –

- i) Dabang Gajinpara
- ii) Dabang Ampangdamgre

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 570.40 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 Upper Dabang 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:-

1. 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 is situated at a distance of about 20 km from Tikrikilla the C & R D Head Quarter and about 145 km from Tura the District Headquarter . The geographical location is between $90^{\circ}19'26.40''$ to $90^{\circ}21'46.80''$ E Longitude and $25^{\circ}58'26.40''$ N to $25^{\circ}54'55.80''$ N Latitude. There are two villages within the Watershed which are as follows –

- i) Dabang Gajinpara
- ii) Dabang Ampangdamgre

2.2 Physiography:

The physiography of the micro-watershed is highly undulating. The altitude ranges from a minimum of 40 m to a high of 144 m above mean sea level. In the lower reaches (valley lands) the slope ranges from 1% to 5% however, in the middle and upper reaches it is greater than 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
40 - 144	1 – 50%	2 Order of Didak River Micro W/S	(i)Dabang Stream (ii)Ronggaram Stream (iii)Bolbak Stream (iv)Silompa Stream (v)Ella Stream (vi)Chirongga stream (vii)Achikong bang Stream (viii)Dogilika Stream (ix)Rongbaram Stream (x)Bolchim Stream (xi)Gella Stream	Flat and gentle slopes

2.3 Drainage:

The major stream draining the micro-watershed is the Dabang which is a2thto3th order stream flowing in a north-south direction. The slopes of the micro-watershed are dissected by numerous small tributaries flowing to the Dabang.

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	rosion:				
		thalaya West Garo Hills		a	Sheet	500			
			Garo IWMP-	b	Rill		NA	NA	
1	Meghalaya			С	Gully				
			Hills IX	IX Sub		total	500		
				Wind en	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 3600mm.

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 of	Name of the Agro-	Area (in	Area (in	Area (in		Names of	Major soil types		Average annual rainfall in mm	Major crops								
No.	State	climatic zone	ha)	the districts	the Projects	a) Type	b) Area (ha)	(preceding 5 years' average)	a) Name	b) Area (ha)									
									Rice	22.06									
									Maize	10.00									
								Ginger	25.00										
		11 ₋₄	ot, soisture 500 West Garo Hills										West Cana	WGH	Fine loamy soils.	409.52			
1		moisture									IWMP-IX	IWMP-IX		160.88	3600mm				
						Coarse loam soils.													
								Total		57.06									

2.5 Agriculture:

Agriculture is the primary occupation of the people of the area. The people mostly practice jhum. The jhum plots vary from 1 to 1.5 Ha, and are cultivated for 3-4 years. The principal agricultural crops grown of the jhum fields are potato, sweet potato, maize, yam and vegetables. Fruit crops are well suited in the lower reaches which mango, jackfruit, orange, pineapple, litchi. The slopes of the Upper Dabang are also very suitable for betel nut, betel leaf, black pepper 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.)
Rice	22.06	20	4410.20
Maize	10.00	15	150.00
Ginger	25.00	40	1000.00

2.6 Natural Vegetation:

The tree species common to the watershed area includes Mirbelia champaca, Artocarpus chapalasa, Gmelina arborea, Dendrocalamus bambusa, Shorea robusta, Vitree pedangcularisa etc. However, due to jhum cultivation the forest cover of the area has reduced considerably.

2.7 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 66(sixtysix) with a total population of 319 of which 147 are male and 172 are female. The detail of the household in each of the villages in the watershed project is as follows:

1. Dabang Gajinpara - 43 Nos 2. Dabang Ampangdamgre - 23 Nos

Total - 66 nos

<u>Infrastructure facilities</u>:

- 2.1.1 *Roads:* There is no all weather road but the village within the Project Area is connected by the kutcha constructed under NREGS
- 2.1.2 *School:* there are only two L.P Schools within the Project Area run either by the Mission or by the Government.
- 2.1.3 *Electricity*: There is no electricity under this Project Area.
- 2.1.4 *Health*: There is no Community Health Centre or sub-cencentre and the local population have to either depends on facilities available at Naguapara at a distance of 5 km.
- 2.1.5 Water Supply: There is no drinking water supply from P.H.E but the entire population depend on springs available in the area to meet the daily requirement.

2.1.6 *Market*: There is no any market under this project area but the people of this area sell their products at Naguapara weekly market which is 5 km away from the watershed area.

Table 2.5: Infrastructure Status.

1	2		3		4			
Name of District	Name of Project		Parameters:	Status				
		(i)	Whether connected to the main road by an all weather road		NII			
		(ii)	No. of households without electricity		66			
		(iii)	No. of households without access to drinking water		66			
		(iv)	No. of educational institutions:	(P)	(S)	(HS)	(VI)	
			Primary (P)/ Secondary (S)/ Higher Secondary (HS)/ Vocational institution (VI)	2	NIL	NIL	NIL	
		(v)	Distance of project village from nearest Primary Health Centre	5 km				
		(vi)	Distance of project village from nearest Veterinary Dispensary		5 km			
WGH	WGH-	(vii)	Distance of project village from nearest Post Office 5 km					
	IWMP-IX	(viii)	Distance of project village from nearest Banks	20 km				
		(ix)	Distance of project village from nearest Markets/ mandis	5 km				
		(x)	Distance of project village from nearest Agro-Industries	NIL				
		(xi)	Total quantity of surplus milk		NII	_		
		(xii)	No. of milk collection centres	(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	2				
		(xiv)	No. of worship place	2				
		(xv)	No. of Community Hall		NII		-	
		(xvi)	No. of water tanks/Ringwell/Spring chamber	NIL				

2.8 Livestock:

There are only 4 kinds of livestock farming being farmed in the area viz. Piggery, Poultry, Cattle and Goatery.

Table 2.6: Existing livestock population

Type of Animal	Population
Piggery	35
Poultry	1221
Goatery	107
Cattle	210
TOTAL	1573

2.9 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 the		Types of Farmer	No. of	No. of BPL				
District	Project	31	households	households	Irrigated	Rainfed	Total	
		(i) Large(>5 Ha)	-	-	-	-	-	
West	IWMP-IX	(ii) Small(1-5 Ha)	1	-	-	-	-	
Garo		(iii) Marginal(<1 Ha)	66	-	-	22.06	-	
Hills		(iv) Landless	-	-	-	-	-	
		Sub – Total	66	-	-	22.06	-	

Table 2.5: Common Property Resources in the Project Area

1	2	3	4						5				
Name of	Name of the	CPR	Total Area (ha) Area owned/ In possession of				Area available for treatment (ha)						
District	Projects	Particulars	Pvt. Person	Govt. (specify deptt.)	PRI	Any other (Community)	Pvt. Person	Govt. (specify deptt.)	PRI	Any other (Community)			
		(i) Wasteland/ degraded land	ı	ı	-	80.06	1	-	-	323			
		(ii) Pastures	ı	-	-	-	1	-	-	-			
		(iii) Orchards	141.25	-	-	-		-	-	-			
		(iv) Private agriculture land	ı	ı	-	-	97	-	-	-			
		(v) Forest	ı	ı	-	25	ı	-	-	10.00			
		(vi) Village Ponds/ Tanks	ı	ı	-	-	ı	-	-	-			
West	WGH	(vii) Community Buildings	ı	ı	-	-	ı	-	-	-			
Garo	IWMP-IX	(viii) Weekly Markets	ı	-	-	Nagaupara	1	-	-	-			
Hills		(ix) Permanent Markets	-	-	-		-	-	-	-			
					(x) Temples/ Places of worship	-	-	-	2	-	-	-	-
		(xi) Jhum Cultivation	25	=	-	-	-	-	-	=			
		(xii)Permanent Cultivation	22.06	=	-	-	-	-	-	=			
		(xiii) Habitation including streams	15.00	1	-	Na	-	-	-	70			
	Total		178.31	-	-	105.06	97	-	-	403			

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

a) Agricultural land-crop land-kharif crop = 38.70 Ha

b) Tree clad Area-open = 385.62 Ha

c) Wastelands-barren Rocky/Stony waste = 80.06 Ha

d) Horticulture plantation = 66.02 Ha

Total = 570.4 Ha

2.10 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 another infrastructural problems that the area is facing where large volume crops like pineapple, jackfruits etc do not find their way into the market which has resulted in poor socio-economic status of the people. However, to control or to overcome the said problems an innovative approach has been formulated and documented in the Action Plan or the Treatment Plan the Detailed Project Report. The method of identification of the problems is through the Participatory Rural Appraisal Exercises conducted in all the villages within the Watershed.

CHAPTER III PROJECT PLANNING & INSTITUTION BUILDING

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PROJECT PLANNING & INSTITUTION BUILDING

3.1 Scientific Planning

- i) <u>Base Line Survey</u>: To establish a benchmark for assessing the impact of any intervention (pre-project & post project) a baseline survey is essential. The baseline survey included household census & socio-economic survey by using structured and semi –structured questionnaires, bio-physical survey to identify and assess the status of natural resources in the project area.
- ii) <u>Participatory Rural Appraisal</u>: To further obtain information on the project area, the people, resources, various PRA techniques like resource mapping, social mapping, seasonal calendars, matrix ranking, Venn diagrams were used.
- iii) 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	YES		
	Institute.	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	
	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 HillsDistrict of Meghalaya. The Project Manager will be the Divisional Soil and Water Conservation Officer and will be assisted by an Asst. Soil & Water Conservation Officer along with WDT members in which expertise is drawn from the relevant fields for achieving smooth and successful implementation of the project.

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

Table 3.2: Details of Watershed Committees (WC):

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Names of the Districts	Names of projects	Names of WCs	Date of Registration as a Society (dd/mm/ yyyy)	Designa tion	M/F	SC	ST	SF	MF	LF	Land- less	UG	SHG	GP	Any other	Educational ualifycation	Function/s assigned#
				President	M		ST									Class X	A to I
W.G.H	W.G.H- IWMP-	Upper	Under	Secretary	M		ST									P.U (Arts)	A to I
	IX	Dabang	progress	Member	8 M											Class	A to I
				Member	1 F											IV-VIII	A to I
				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	Names of	То	tal no. of regi	stered SI	IGs	No.	of men	nbers		No. of	f SC/S' catego	Γ in each ory	No.	of BPL catego	in each ry
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	W.G.H- IWMP- IX	2 No			2 No	(i) Landless (ii) SF (iii) MF (iv) LF	20		20	20		20	NA	NA	NA

iii) User Group

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

Table 3.4: User Group Details

1	2		3				4				5			6	
Names of Districts	Names of		Total no.	of Ugs		No. o	of mem	bers		No. o	of SC/S7	Γ in each ory	No. of B	PL in eac	h category
rames of Districts	Projects	Men	Women	Both	Total	Categories	М	F	Total	M	F	Total	M	F	Total
						(i)Landless									
						(ii) SF									
W.G.H	W.G.H. IWMP-IX					(iii) MF									
						(iv) LF									
Total					NIL				NIL			NIL			NIL

CHAPTER IV PROJECT ACTIVITIES

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4.1 Preparatory Phase:

i) Entry Point Activities (EPA)

(Financial – Rs. in lakh)

1	2	3	4	5	6	7	8	9	10	11
Sl. No.	State	District	Names of Project	Amount earmarked for EPA	Entry Point Activities planned	Estimated cost	Expenditure incurred	Balance	Expected outcome	Actual outcome
1	Meghalaya	W.G.H	W.G.H IWMP-IX	3.00 Lakh	Construction of Spring Chamber/Ringwe Il	3.00 Lakh	-	-	-	Increase in availability of drinking water

ii) Other activities of Preparatory Phase:

1	2	3	4	5	6	7	8	9	10	11	12	13
District	Name of Projects	Initiation of village level institution	Capacity building	IEC activities	Baseline survey	Hydro- geologi cal survey	Identifyin g technical support agencies	Resource agree-ments	Prepar ation of DPR	Evaluati on of DPR	Any other (please specify)	Cost incurre d (Rs. In lakh)
W.G.H	W.G.H IWMP- IX	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/Esta blished farms etc.	a)Pamplet s b)Banners c)Posters	a)Particip atory Rural Appraisal s 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 developmental works b) Agreement for convergence of NREGS scheme with IWMP with VEC.	a)Res ource invent ory works	Done		1.5

4.2 Watershed Works Phase:

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

1	2	3	4	5		6								7					
					I	Pre Pro	ject						Prop	osed Proje	ect				
								A		tion/ repa		Con	struction	of new stru	ictures		Total	target	
SI N o	Name of States	Name of Distri cts	Name of Project s	Type of structures	N o	Are a irrig ated (ha)	Stor age capa city	No	Area to be treate d (ha)	Stora ge capaci ty	Estima ted cost (in lakhs)	No/R M	Area to be treate d (ha)	Storage capacit y (per unit)	Estimat ed cost (in lakhs)	No	Area to be treat ed (ha)	Storag e capaci ty (m³)	Estima ted cost
1				Dug out Pond	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			W.G.H	C.C Check cum Irrigation Dam	-	-	-	-	-	-	-	4	90	765	10.00	4	90	765	10.00
	Megh	W.G.	IWMP- IX	Conservatio n Pond	-	-	-	-	-	-	-	4	135	1950	10.00	4	135	1950	10.00
	alaya	Н		Earthen Irrigation Channel	-	-	-	-	-	-	-	400. rmt	60	-	0.20	400 rmt	60	-	0.20
				Water harvesting farm pond	-	-	-	-	-	-	-	4	130	1320	10.00	4	130	1320	10.00
			Total										415	2085	30.20		415	2085	30.20

					:	8					9	10
				Ad	chievement	due to proje	ct					
Aug		repair of e	existing	C	Construction	of new struc	etures	Т	otal achievem	ent	Change in storage capacity (col 8-6)	Change in irrigated area (ha) Col. (8-6)
No	Area irrigated (ha)	Storage capacity	Expenditur e incurred (in lakhs)	No	Area irrigated (ha)	Storage capacity	Expenditure incurred (in lakhs)	Area irrigated (ha)	Storage capacity	Estimated incurred		-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-

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

1	2	3	4	5		6					7								8				9
					Pre-	-project			F	ropo	sed tar	get				1	Achiev	emer	nt due to	o proje	ct		
S	o of	s of	Names of project	Type of	No.	Area irrigate	repa re	gmentat ir of exi echargii tructure	isting ng	nev	nstruct w recha structu	arging	Total	target	rep	ngmentati air of exis rechargin structures	sting g	new	nstructio / rechar structure	ging	To achiev	ement	Change in irrigated area (Col.
	States	cts	S			d (ha)	No.	Area to be irrigat ed (ha)	Estim ated cost	No.	Area to be irrigat ed (ha)	Estima ted cost	Area to be irrigat ed (ha)	Estima ted cost		Area irrigated	Expe ndi- ture incur red	No	Area irri- gated (ha)	Expe ndi- ture incur red	irri-	Expen di-ture incurre d	8-6) (ha)
				(i)Dug out Pond	0				0	7	15	3.50	15	3.50	0		0	0		0	0	0	0
1	Meghal	West	WGH			NIL		NIL								NIL			NIL				
	aya	Garo Hills	IWMP -IX																				
				Total for the project							15	3.50											

4.2.3 Activities executed by User Groups in the Project Areas.

	2				3			
			Major activities of	of the UGs –Ta	rgets			
Names of	Names of		Structure/ ac	tivity proposed		No. of UGs	Estimated	Amount of WDF to be
Districts	Projects	Sl. No.	Type	No.#	Treatment (ha)	involved	Cost	collected (Rs.)
		1.	C.C Check-cum irrigation dam	4 Nos	90 Ha	2	10.00	0.50
		2	Stone masonry Protection Wall	8Nos	90 Ha	2	4.00	0.20
W.G.H	W.G.H IWMP-IX	3	Earthen Irrigation Channel	400 rmt	60 Ha	1	0.20	0.01
			Total		240 Ha	5	14.20	0.71

4.2.4 Activities executed by User Groups in the Project Areas:

				4					
				Major activities of the	UGs – Achievements				
	Structu	ure/ activity	No. o	f mandays		Amount of WDF collected			
Sl. No.	Туре	No.#	Treated Area (ha.)	No. of UGs involved	(Rs.)	SC	ST	F	(Rs.)
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-

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

1	2		3	
			Major activities of the SHC	d's
Names of the Districts	Names of projects	Name of activity	No. of SHGs involved	Average annual income from activity per SHG
		Piggery	5	0.65
	W.G.H	Poultry	5	0.40
West Garo Hills	IWMP-IX			
	Total		4	1.05

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 SHGs	Т	otal assistance re (Amour	eceived by the nt in Rs.)	SHG		Гotal annual Income		No. of S	SHGs	Graded as	Total Amount of	No. of SHGs
given training	Loan from revolving fund	Training	Material	ncome generating activities	Amount	generated (Rs.)	Savings (Rs.)	Ι	II	III	loan sanctioned by the bank(s)	federated
	NIL	1.60	NIL	Piggery	1.50	1.30	0.60					
				Poultry	1.50	0.80	0.40					

4.2.7 Other activities of watershed works phase:

1	2	3		4		5		6		7		8		9		10		11		12		13
District	Names of projects	Ridge area treatment		Drainage line treatment		Nursery raising		Land development		Crop tdemonstratio ns		Horticulture & Cash Crop Development		Veterinary services		Fishery development		Non- conventional energy		Any other (please specify)		Total cost incurred (Rs. In lakhs)
		(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)	
W G H	W.G.H IWMP- IX	i)Impro vement of degrade d forest(1 0 Ha)	0.36	i)check dam. ii)protec tion wall. iii)farm pond. iv)dug out pond. v)Chann el.	10.0 0 4.00 10.0 0 7.50	i) Poly bag Rubber (21,000 plant)	5.25	i)Wet Terrac e(12H a)	2.40	-	-	i)Rubb er plantat ion(40 Ha) ii)Are canut plantat ion (30 Ha)	4.40 2.64	i)pig gery ii)po ultry	1.50	Fisher y-cum- pigger y(6unit	1.50	-	-	Kitchen Garden (140Ha)	3.50	
	Total		0.36	·	31.7 0		5.25		2.40				7.04		3.00		1.50				3.50	54.75

4.2.8 Details of engineering structures in watershed works:

1	2	3		4			5		6		7	1		8							
			Type of treatment			7	Γype of l	land	Executing agency			Т	arg	get		Achievement					
District	Project	Name of structures	(i) Ridge area (R)	(ii) Drainage line (D)	(iii) Land Dev. (L)	(i) Private	(ii) Com- munity	(iii) Others (pl. specify)	(i) UG (ii)SHG (iii) Others (pl. specify)		Estimated cost (R lakh)				Expected month & year of completion (mm/yyyy)	(No./cu.m.	1		iture ed akh)	n) comple-tion	Actual month & year of completion (mm/yyyy)
											M	W	О	T			M	W	T		
		Dug out Pond		√					UG/WC	18 Nos		7.50		7.50	31/3/2013						
		Check Dam		V			V		UG/WC	4 Nos	4	6.00		10.00	31/3/2013						
		Wet Terrace			V	1			UG/WC	12 Nos		2.40		2.40	31/3/2013						
W.G.H	W.G.H IWMP-IX	Stone masonry Protection Wall		V			1		UG/WC	8 Nos	1.6	2.40		4.00	31/3/2013						
		Earthen irrigation Channel		V			1		UG/WC	400 rmt		0.20		0.20	31/3/2013						
		Water Harvesting farm pond		V		V			UG/WC	4 Nos	4.00	6.00		10.00	31/3/2013						
		Total									9.60	24.50		34.10							

4.2.9 Details of engineering structures in watershed works.

9

Outcomes

		Water le	evel (m)	Production (quintal)		Income (Rs.)			N	Iandays g	enerated		No. of beneficiaries					
Reduction in run off (cu.m)	Area treated# (ha)																	
		Pre-project	Post project	Pre-project	Post project	Pre- project	Post project	SC	ST	Others (Men)	Women	Total	SC	ST	Others	Women	Total	
NA	420	NA	NA	Paddy (18 Qtls)	Paddy (33 Qtls)	22,000	40,000		16170		8150	24320		48		18	66	
				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		8					
			Type of treatment			Type of land			Executing agency		ŗ	Target		Achievement					
Distr ict	Proj ect	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)		
		Improvement of degraded	R		С				WC	10 Ha	1000	0.36	31/3/2012						
WG	IW	Rubber Plantation	R			P			Farmers	40 Ha	18,000	4.40	31/3/2014						
H	MP -IX	Arecanut	R			P			Farmers	30 Ha	36,000	2.64	31/3/2014						

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							
								Outcom	nes						
Name of activitie	Reduc tion in run	Produ (quir			come Rs.)	SC	ST		generated Women	Total	SC	ST	No. of bene	eficiaries Women	Tatal
S	off (cu.m)	Pre-project	Post project	Pre- project	Post project		31	Others	women	Total	SC	31	Others	women	Total
Improvem ent of degraded	NA	0	•				230		130	360		46		20	66
Rubber Plantatio n	NA	0	122	0	1464,000		4200		1800	6000		30		10	40
Arecanut	NA	315	775	252,000	620,000		2400		1020	3420		25		5	30
Total		315	897	252,000	2084,000		6830		2950	9780		101		35	136

4.2.12 Details of allied / other activities:

1	2	3		4		5		6	5	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	√		Individual	Private	3.50	31/3/2014		
		Piggery			Individual	SHG/UG	1.50	31/3/2012		
West		Poultry			SHG	SHG/UG	1.50	31/3/2013		
West Garo	W.G.H									
Hills	IWMP-IX	Fishery cum piggery unit			SHG	Private	1.50	31/3/2014		
		Rubber Poly Bag	$\sqrt{}$		SHG	SHG/UG	5.25	31/3/2014		
		Dugout Pond	$\sqrt{}$		Individual	Private	4.00	31/3/2014		
		Total					17.25			

(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	s.)		_	Mandays g	generated	_		_	No. of ben	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		240		2100	4500		20	NIL	10	30
Piggery	25,000-30,000	60,000- 70,000		350		650	1000			NIL	30	30
Poultry	13,000-15,000	40,000- 45,000		430		570	1000			NIL	30	30
Fingerlings	NIL	50,000- 60,000		140		110	250		15	NIL	10	25
Rubber budded poly bag nursery	NIL	85,000- 90,000		320 0		1300	4500			NIL	30	30
•	Total			652 0		4730	11250		35		110	145

14.3 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 contribution to	Area treated under the	incurred	Actual no. of benefici	No	o. of mar	days	WDF collected
					activity (ha)	(Rs.)	ries	WDF (Rs.)	activity (ha)	(Rs.)	-aries	SC	ST	F	(Rs.)
		Dabang	<u>-</u>												
	WCII	Gajingpara	 -												
West Garo Hills	WGH IWMP- IX		Repairing maintana			1.75		0.0875							
			nce of CPR's			1.73		0.0073							
			CFKS												
		Dabang	_												
		Ampangdamgre	_												
		Total													

CHAPTER V PROJECT PHASING & BUDGETING

CHAPTER V

PROJECT PHASING & BUDGETING

ACTION PLAN OF UPPER DABANG WATERSHED UNDER IWMP TERRITORIAL DIVISION: TURA

Name of District :- West Garo Hills

No. of Villages: 2 nos

Name of C&RD Block:- TIKRIKILLA

Project Area: 500 Ha

Sl.	Activities												
No		Ist Yea	ar(6%)	IInd Ye	ar(14%)	IIIrd Y	/ear(50%)	IV Yea	r(25%)	V Yea	r(5%)	Total(ii	n lakhs)
		Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	MANAGEMENT COST:												
A	Administrative Cost:-10%			2%		5%		3%				10%	
i	Honourarium of WDT Members @ Rs.8000/-month-1 no.				0.96		0.96		0.96				2.88
ii	Honourarium of Watershed Committee Chairman @500/ month				0.01		0.06		0.02				0.09
iii	Honourarium of WCM @ Rs. 200/Members/month for 9 nos.				0.036		0.216		0.072				0.324
iv	Honourarium of Charter Accountant				0.15		0.15		0.15				0.45
V	TA/DA/ of Field Asst. @ 5000/- month				0.05		0.60		0.20				0.85
vi	Hiring charges of office building @ 1000/ month				0.02		0.12		0.12				0.26
vii	Hiring charges of vehicle @ 5000/ month				0.10		0.60		0.20				0.990
viii	Office expenses, POL, Stationeries, Printing of SHG's books, pamphlets, tea, snacks ets, cost of camera.				0.174		1.044		0.528				1.746
	TOTAL OF A:			2%	1.50	5%	3.75	3%	0.528			10%	7.50
	PREPARATORY PHASE: 4%												
В	Entry Point Activities:	4%											
i	Construction of Spring Chamber/Ringwell @Rs60,000/- each	5 Nos.	3.00									5	3.00
	TOTAL OF B:		3.00										3.00

С	Institution & Capacity Building : - 5%	1%		2%		1%		1%			5%	
I	Awareness Campaign & Capacity building of farmer	1	0.20	1	0.20	1	0.20				3	0.60
ii	Exposure visits - Off Campus	1	0.35	1	0.30	1	0.35				3	1.00
iii	Capacity building of SHG's/UG's.	1	0.20	3	0.60	1	0.20	1	0.35		6	1.35
iv	Capacity building of WC Members.			1	0.20			1	0.20		2	1.00
V	Capacity building of WDT/WV			1	0.20			1	0.20		2	0.60
	Total of C:		0.75		1.50		0.75		0.75			3.75
D	Detailed Project Report: 1%		1%									
I	Cost of Resources Inventories works		0.25									0.25
ii	Cost of PRA Exercises		0.10									0.10
iii	Cost of Land use Survey works		0.25									0.25
iv	Cost of formulating		0.15									0.15
	Total of D:		0.75									0.75
E	Monitoring & Evaluatio: 2%											
I	Cost of Monitoring			0.2%	0.15	0.5%	0.375	0.3%	0.225		1%	0.75
ii	Cost of Evaluation			0.3%	0.225	0.5%	0.375	0.2%	0.15		1%	0.75
	Total of E:				0.375		5.25		0.375			1.50
	TOTAL OF I (A - E)		4.50		3.375		5.25		3.375			16.50
II	PROJECT COST WATERSHED WORKS PHASE: 50%											
Α	Arable Land Treatment:											
I	Wet terrace@20,000/-Ha(10-20% slope)			6	1.20	6	1.20				12	2.40
ii	Rubber plantation pre-work@5,900/(40 ha)			15	0.885	35	2.07				50	2.955
	1st yr. planting @Rs.2,900/ha					15	0.435	35	1.015			1.45
iii	Arecanut plantation pre-works @Rs.5,900/30 ha			10	0.59	20	1.18				30	1.77
	1st yr. planting@ 2,900/ha					10	0.29	20	0.580			0.87
	TOTAL OF - A				2.68		5.17		1.60			9.45
В	Non-Arable Land treatment:											
	Improvement of degraded forest @3600/10 ha											
I	Preliminary Works@700/-Ha			10	0.07						10	0.07
ii	1stYear Planting @ 1900/- Ha				0.19							0.19
	2 nd Year Planting @ 1000/-Ha			10	0.10							0.10
	Total of B:				0.36							0.36

1	2	3	4	5	6	7	8	9	10	11	12	13	14
С	Drainage Line Treatment:												
I	C.C.Check-Cum-Irrigation dam @2,50,000/ each - 95												
	На					4	10.00					4	10.00
ii	Stone masonery protection wall @50,000/each - 85				4.00		2.00		4.00			0	4.00
	ha			2	1.00	4	2.00	2	1.00			8	4.00
iii	Dug-out pond @50,000/-each -15 ha			3	1.50	3	1.50	1	0.50			7	3.50
iv	Water harvesting farm pond @2,50,000/- each -127												
	ha					3	7.50	1	2.50			4	10
V	Earthern irrigation channel @Rs. 50 /- Rm55 ha			180	0.090	160	0.08	60	0.03			400	0.20
	TOTAL-C				2.59		21.08		4.03				27.7
	TOTAL OF A+B+C			7.5%	5.625	35%	26.25	7.5%	5.625			5%	
D	Livelihood Activities for landless person: 10%												
ii	Kitchen garden @2,500/unit			30	0.75	50	1.25	60	1.50			140	3.50
iii	Dug-out pond @50,000/-each-15 ha					2	1.00	6	3.00			8	4.00
	Total of D:			1%	0.75	3%	2.25	6%	4.50			10%	7.50
Е	Production system and Micro Enterprises (SHG's) - 13%												
I	Piggery unit @Rs.30,000 /- per unit					1	0.30	4	1.20			5	1.50
ii	Poultry unit @Rs.30,000 /- per unit					1	0.30	4	1.20			5	1.50
iii	Fishey-cum-piggery unit @25,000 /- each							6	1.50			6	1.50
iv	Group Rubber nursery @25000/- per plant			3000	0.75	12600	3.15	5400	1.35			21000	5.25
	Total of E:			1%	0.75	5%	3.75	7%	5.25			13%	9.75

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

VILLAGEWISE ACTION PLAN OF UPPER DABANG MICRO WATERSHED UNDER IWMP - II TERRITORIAL DIVISION : TURA .

Name of District: West Garo Hills

No. of village: 2 nos.

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

Project Area: 250.00 Ha.

SI.		Dajing	para	Ampangda	mgre	Total	
No.	Activities	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.
1	2	3	4	5	6	7	8
I	<u>Watershed works Phase :</u>						
А.	Arable Land Treatment :						
	i) Rubber Plantation @ Rs. 8600/- per Ha.	25	2.15	25	2.15	50	4.30
	ii)Arecanut Plantation @ Rs.8600/-	15	1.29	15	1.29	30	2.58
	ii) Terracing @ Rs.20000/- per Ha.	6	1.20	6	1.20	12	2.40
В.	Non-arable Land Treatment :						
	i)Improvrmnt of Degraded Forest @ Rs. 20000/-	5	0.18	5	0.18	10	0.36
с.	<u>Drainage Line Treatment :</u>						
C.	i) Check Dam cum Irrigation Dam @ 250000/-	2	5.00	2	5.00	4	10.00
	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.	4	2.00	3	1.50	7	3.50
	iv) Protection Wall @ Rs. 50000/- per no.	4	2.00	4	2.00	8	4.00
	v) Earthen Irrigation Channel @ 50/- per R/ m	200	0.10	200	0.10	400	0.20
III	Livelihood Activities for Assetless Household :						
	i)Kitchen Garden @ 2500/-	70	1.75	70	1.75	140	3.50
	ii)Dug out pond @ 50000/-	4	2	4	2	8	4.00
IV	Production System and Micro Enterprises :				_		
	i) Piggery/Poultry @ Rs. 30000/-	5	1.50	5	1.50	10	3.00
	ii) Fishry cum piggery @ Rs. 25000/-	3		3		6	1.50
	iii)Rubber nursery @ 25000/- per plant	11000	2.75	10000	2.50	21000	5.25
	minusber harsery & 25000/ per plant	11000	2.73	10000	2.30	21000	3.23
	-						

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

1	2	3	4	5	ϵ	5	7	8	9			10				11		
SI	Name of	Name of Distric	Names of Project	Year of sanct	Pro dura (dd/)	ntion 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				letails (ha) he project	
C		ts	S	ion	From	То	S	lakh)	unique codification)									
										Cultiv ated irrigat rainfe d area area Cultiv ated irrigat ed area Uncultivated wasteland			Agri. Land	Fores t land (open	Com m unity land	Others (pl. specify)	Total area (ha)	
												a) Tempor ary fallow	b) Per manent				Horti.	
1	Meghalay a	West Garo Hills	W.G.H IWMP -IX	2010	2010	31/3 / 2015	500	7.5	Upper Dabang	0	490	10	0	95	30	0	375	500

Fund provision for the IWMP projects from all sources:

1	2	3	3					4						5
District	Name of Projec ts	IWMF	P Fund	Converge	ence funds		from other:	sources in	n addition to	Institu	ands utional ance		ers (Pl.	Total
		Centra 1 Share	State Share	Name of Scheme	Amount (Lakhs)	Name of private sector	Financial contribution	Name	Financial contri- bution	Name	Financi al contri- bution	Name	Financial contri- bution	Total
Meghala ya	W.G. H IWMP -IX	67.50	7.50	NREGS	15	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	90

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

1	2	3	4		5					6		
				Distt.	Agency's Proj	ect Account de	etails		Watershed Comn	nittee (WC) ac	count 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	W.G.H	W.G.H IWMP- IX	-	-	-	-	Upper Dabang Micro Watershed	S.B.I Lower Chandmary	3162950 4368	Saving	Chairman W.C Secretary W.C Project Leader/WD T

Public-Private Partnership in the IWMP projects: NIL

1	2	3		4			5	6	7	8	9
			Type of agreement signed			Financial contribution					
		Name of Private			1		T	D . 1.		Actual	
District	Name of project	Sector Partner Agency	a)MoU	b)Contract	c) Any other (pl. specify)	IWMP	Private sector	Partnership Interventions	Expected Outcomes	Outcomes	Comments
WGH	IWMP- IX										
			NIL								

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

CHAPTER VI CAPACITY BUILDING

CHAPTER VI CAPACITY BUILDING

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

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

1	2	3	4	5	6	7	8			9		
a		Name of	Full Address	Name &	TD 6			D. C	N. C	Performanc), C
S. No	State	the Training	with contact no.,	Designation of the Head	Type of Institute [#]	Area(s) of specialization\$	Accre- ditation	Refer- ence	No. of trainings	No. of trainees to	No. of trainings	No. of trainees
		Institute	website & e-mail	of Institute			details	Year	assigned	be trained	conducted	trained
1		NIRD (NER)	Guwahati	Director	Central Govt.	Remote Sensing, Rural Devt.	NA	-	-	-	-	-
2		SIRD	Nongsder	Director	State Govt.	Capacity Building	NA	-	-	-	-	-
3	laya	RRTC	Umran Meghalaya	Director	Don-Bosco	Agri-Horti, Animal Husbandry, Entrepreneurship	NA	-	-	-	-	-
4	Meghal	ICAR/KV IC	Umiam/Tura Meghalaya	Director	Central Govt.	Do	NA	-	-	-	-	-
5		MRDS	Shillong Meghalaya	Director	State Govt.	Animal Husbandry	NA	-	-	-	-	-
6		NEHU	Shillong/Tura Meghalaya	Director	Central 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 $\underline{2010-11}$ as on $\underline{31/03/2010}$ (dd/mm/yyyy)*

1	2	3	4	5		6		7
Project	Total no.	No. of persons	No. of persons to be trained	No. of persons trained during		f funding for ining	Funds utilized (Lakhs)	
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)
PIAs	10	NIL	10	NIL				
WDTs	5	NIL	4	NIL				
UGs	40	NIL	40	NIL				
SHGs	50	NIL	50	NIL				
WCs	11	NIL	11	NIL	3.75	NIL	0.75	NIL
GPs	NIL	NIL	NIL	NIL				
Community	280	NIL	150	NIL				
Others Pl. specify)								
TOTAL	396	0	266	0	3.75	0	0.75	0

Table 6.3: Information, Education & Communication (IEC) activities for the year <u>10-11</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	0.25	-	-
2.	Exposure Visits	S&WC (T) Division	0.25	-	-
3.	Capacity Building	S&WC (T) Division	0.15	-	-
		Total	0.75	-	-

CHAPTER VII EXPECTED OUTCOME

CHAPTER VII EXPECTED OUTCOME

Table 7.1 Employment related outcomes:

			1									2				
Sl	Name of Village		Wage employment									Self employment				
No	g		No. of mandays				No.	of benefit	iciaries			No.	of benefi	iciaries		
		SC	ST	Others	Women	Total	SC	ST	Others	Women	Total	SC	ST	Others	Women	Total
1.	Dabang Gajingpara		12600	-	7120	19720	-	120	-	110	230	1	25	-	18	43
2.	Dabang Ampangdamgre		6300	-	3580	9880	-	64	-	53	117	1	15	-	8	23
	Total		18900	-	10700	29600	-	184	-	163	347	-	40	-	26	66

Table 7.2 Migration Details:

1	2	3	4	5	6	7	8	9	1	10
Names of the Districts	Names of Projects	Name of village	No. of persons migrating	No. of days per year of migration	Major reason(s) for migrating	Distance of destination of migration from the village (km)	Occupation during	Income from such occupation	For reduced migration identify major activities of IWMP responsible	
	ū						migration	(Rs. in lakh)	(a) Structures	(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
Wages		Trai	ning	Liv	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)
10,700	10.70	66	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 projects	Names of the villages	Particular of CPR	Nature of right	Period of right	Be		ry details (nmilies)	no. of	User Charges (Rs.)
215011005	projects	, mages	01 01 11			SC	St	Others	Total	(1151)
		Dabang Gajingpara	Reserved forest	FW/MFP/ T	Unspecified		43		43	NIL
Meghalaya	W.G.H		Spring Chamber	Wd	Unspecified		18		18	NIL
	IWMP-IX		Check dam	Wi	Unspecified		30		30	NIL
			Irrigation Channel	Wi	Unspecified		30		30	NIL
		Dabang Ampangdamgre	Reserved forest	FW/MFP/ T	Unspecified		23		23	NIL
			Spring Chamber	Wd	Unspecified		12		12	NIL
			Check dam	Wi	Unspecified		15		15	NIL
			Irrigation Channel	Wi	Unspecified		15		15	NIL

^{*} 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. 7, only the letter assigned to each type, as given below, needs to be typed.

F	for right to	fishing [culture, harvest and sale]
Fw	for right to	collect firewood for domestic purposes
G	for right to	grazing for cattle and
MFP	for right to	collect and sell minor forest produces
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

• for any right other than indicated above (please specify)

[@] In column no. 6, the categories given in table no. M(SP) 10, column 5 may be filled as required.

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
	W.G.H IWMP-IX	Open Well	NA	NA	NA	NA	NA
Meghalaya		Bore Well	NA	NA	NA	NA	NA
		Other (specific) Spring	NA	NA	NA	NA	NA

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

Table 7.5.2 Status of Drinking water:

1	2		3			4		5
District	Name of the project	Availability of drinking water (no. of monyhs in a year)			Qualit	Comments		
		Pre-project	Post- project	Change in availability	Pre- project	Post- project	Change in quality	Comments
Meghalaya	WGH IWMP-IX	10 months	12 months	2 months	Unsafe	Potable	Improved	Better drinking water supply

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

Table 7.5.3 Water Use efficiency:

1	2	3	4						
			Water savings in cum.						
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-IX	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	1						5						6		
					Pre-p	roject					Mi	d-term	ı				Post-	projec	et	
Names of the Districts	Name of Projects	Name of crops		area ha)	Aver Yie (Qtl)	eld) per	Pro	Total oduction (Qtl)	Are (ha		Yi pe	erage ield r ha (tl)	Tota Produc (Qtl	tion	Are (ha		Aver Yie per (Qt	ld ha	Total Product (Qtl)	ion
			Irri	Rf.	Irri	Rf.	Irr i	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.
		Paddy		22.06		18		397.08	22.0 6	5	36	18	794.16	90	27.06	25	36	18	974.16	450
W.G.H	WGH	Maize		18.00		15		270	0	18	0	15	0	270	0	18	0	15	0	270
w.G.II	IWMP-	Vegetable		5		25		125	6	5	30	25	180	125	6	5	30	25	180	125
	IX	Total		45.06		58		792.08	28.0 6	28	66	58	974.16	485	33.06	48	66	58	1154.16	845

^{*} 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.

 $Irri.-Irrigated \quad Rf-Rainfed$

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

1	2	3	4	5			(5						7						8		
							Pre-p	roject	,				Mid	-term					Post-	proje	ct	
SI No	Names of States	Names of the Districts	Name of Proje	Name of crops		rea 1a)		eld) per	Proc	tal lucti n (tl)	Area (ha)		Yid per	rage eld ha tl)	Total Product (Qtl)	ion	Area (ha)		Aver Yie per (Q	eld ha	Total Producti (Qtl)	
		Districts	cts		Irr i	Rf.	Irri	Rf.	Irri	Rf.	Irri	R f.	Irri	Rf.	Irri	R f.	Irri	R f	Irri	Rf.	Irri	R f.
	Meghalay	West	WGH	Paddy	-	-	-	-	-	-	22.06	-	36	-	794.16	-	27.06	-	36	-	974.16	-
	a	Garo Hills	IWM P-IX	Vegetabl es	-	-	-	-	-	-	6	-	30	-	180	-	6	-	30	-	180.00	-
				Total	-	-	-	•	-	-	28.06	-	66	-	974.16	-	33.06	-	66	-	1154.66	

^{*} 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	
			Name				Ave	rage	To	tal			Avei	rage	Tot	tal			Aver	age	To	tal
Sl	Names of	Names	of	Name	Ar	ea	Yie	eld	Prod	lucti	Aı	ea	Yie	eld	Produ	uctio	Ar	ea	Yie	eld	Prod	uctio
No	States	of the	Project	of	(h	a)	(Qtl)) per	0	n	(h	a)	per	ha	n	l	(ha	a)	per	ha	ľ	n
•	States	Districts	s	crops			h	a.	(Q	tl)			(Q	tl)	(Q :	tl)			(Q 1	tl)	(Q	(tl)
			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	IX		nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	Nil	nil	nil	nil	nil
				Total	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 fodde	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-IX	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	ing area tree c	over (ha)		Achievement (ha)	
District	Name of project	Duration of Project	Source/Name of report	Year of reference	Area already under forest/vegetative cover	Forest/vegetative cover area proposed to be covered under IWMP	Forest/vegetative cover area actually covered under IWMP	Change in forest/vegetative cover area
W.G.H	W.G.H IWMP- IX	5 yrs	Land use survey conducted by the Department	2010	25	10	-	35

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

Table 7.6.6 Increase/ Decrease in area under horticulture:

1	2	3		4			5	
			Existing ar	ea under horticu	lture (ha)		Achievement (ha)	
District	Name of project	Duration of Project	Source/Name of report	Year of reference	Area already under horticulture	Area under horticulture proposed to be covered through IWMP	Area under horticulture actually covered through IWMP	Change in area under horticulture
W.G.H	W.G.H IWMP-IX	5 yrs	Land use survey conducted by the Department	2010	66.02	70	-	136.02

^{*} 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
W.G.H	W.G.H IWMP-IX	5 yrs	NIL	NIL	NIL	NIL	NIL	NIL

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

Table 7.7 Livelihood related outcomes:

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
				Pre-proj	ect		Mid-ter	m		Post-proj	ect	
Names of the Districts	Name of Projects	Type of Animal	No.	Yield	Income	No.	Yield	Income	No.	Yield	Income	Remarks
West Garo Hills	W.G.H IWMP-IX	Cattle	210		16.80	210		16.80	-	-	-	Use for ploughing & local consumption self production earning.
		Piggery	35		2.45	45		3.60	60		4.80	
		Poultry	1221		3.05	1321		3.96	1500		4.50	
		Goatery	107		1.60	107		1.60	-	-	-	
	Total for all projects		1573		23.90	1683		25.96	1560		9.30	

^{*} 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		
			Fund require	Sour	ces of fu	nding (Rs	.)	Actual Expenditur	No.	of be	eneficia	ries trai	ned	No.	of be	neficia activ	ries takiı ity	ng up
District	Project	Name of activity	d for the activity (Rs.)	Project Fund	Benefi -ciary	Others (pl. specify	Tot al	e incurred on activity (Rs.)	SC	ST	Othe rs	Wome n	Tot al	SC	ST	Oth ers	Wome n	Total
West Garo	WGH IWMP-	Kitchen garden	-	3.50	-	-	3.50	-	-	-	_	-	-	-	-	-	-	-
Hills	IX	Dug out Pond	-	4.00	1	-	4.00	-	-	-	_	1	-	-	-	-	-	-
								-	-	-	-	-	-	-	-	-	-	-
		Total	-	7.50	•	-	7.50	-	-	-	-	-	-	-	-	-	-	_
								-	-	-	-	ı	-	-	-	-	-	-

(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
	sons employed in the activity	Annual increase in	_	ration	_	of backward-	Any other
		income due to	(No. of be	eneficiaries)	forward	linkages	information
Total	Grand Total (8+9)	activity (Rs.)	Pre-project	Post-project	Pre-project	Post-project	(pl. Specify)
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

Table 7.7.4 Details of other livelihoods created for farmers:

1	2	3	4			5		6			7				8	
			Fund required	Sources	of fundi	ng (Rs.) in	Lakhs	Actual Expenditure	No.	of far	mers t	rained	No.		ners ta	king up
District	Project	Name of activity	for the activity (Rs.) in lakhs	Project Fund	Benefi -ciary	Others (pl. specify)	Total	incurred on activity (Rs.)	SF	MF	LF	Total	SF	MF	LF	Total
		Wet terrace	2.40	2.40	NIL	NIL	2.40	ı	10	ı	ı	10	10	ı	ı	10
West Garo	WGH IWMP-	Dug-out pond	4.00	4.00	NIL	NIL	4.00	-	18	1	1	18	18	1	-	18
Hills	IX	Rubber Plantation	4.40	4.40	NIL	NIL	4.40	-	40	-	-	40	40	1	-	40
		Arecanut Plantation	2.64	2.64	NIL	NIL	2.64	-	30	ı	ı	30	30	ı	ı	30
		Total	13.44	13.44	0	0	13.44	-	98	-	-	98	98	1	-	98

^{*} 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 liveligration eneficiaries)		e t of backward- d linkages	Any other information
Total	Grand Total (8+9)	income due to activity (Rs.)	Pre-project	Post-project	Pre-project	Post-project	(pl. Specify)
10	20	10,000-12,000	NIL	NIL	NIL	NIL	-
18	36	30,000-35,000	NIL	NIL	NIL	NIL	-
40	80	25,000-30,000	NIL	NIL	NIL	NIL	-
30	60	35,000-40,000	NIL	NIL	NIL	NIL	-

Table 7.8 Marketing related outcomes:

Backward-Forward linkages *

1	2	3	4	5	6
District	Project	Type of Marketing Facility	Pre-project (no.)	During the project (no.)	Post-project (no.)
		(A) Backward linkages		-	-
		(i) Seed certification	Nil	-	-
		(ii) Seed supply system	Nil	-	-
		(iii) Fertilizer supply system	Nil	-	-
		(iv) Pesticide supply system	Nil	-	-
		(v) Credit institutions	Nil	1	1
		(vi) Water supply	Nil	1	1
		(vii) Extension services	Nil	-	-
		(viii) Nurseries	Nil	-	-
		(ix) Tools/machinery suppliers	Nil	-	-
wan	IXVAID IX	(x) Price Support system	Nil	-	-
WGH	IWMP-IX	(xi) Labour	Nil	-	-
		(xii) Any other (please specify)	Nil	-	-
		(A) Forward linkages			
		(i) Harvesting/threshing machinery	Nil	-	_
		(ii) Storage (including cold storage)	Nil	-	-
		(iii) Road network	1	1	1
		(iv) Transport facilities	Nil	-	_
		(v) Markets / Mandis	Nil	-	_
		(vi) Agro and other Industries	Nil	-	_
		(vii) Milk and other collection centres	Nil	-	-
		(viii) Labour	Nil	10	10
		(ix) Any other (please specify)	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 country

Table 7.9 Abstract of outcomes:

1	2	3	4	5	6	7
Sl. No.	State	Item	Unit	Pre-project Status	Post-project Status	Remarks
		Status of water table		Lack of management	Improved	
		Ground water structures repaired/ rejuvenated	Nil	Nil	Nil	
		Quality of drinking water		Unsafe	Better qaulity	
		Availability of drinking water		10 months in a year	12 months availability	
		Increase in irrigation potential		24% irrigated	94 % irrigate4d	
		Change in cropping/ land use pattern		Single croping	Double croping	
		Area under agricultural crop				
		i Area under single crop	На	38.70	102.9	
		ii Area under double crop	На	21.40	60.30	
		iii Area under multiple crop				
		Net increase in crop production area				
		Increase in area under vegetation				
	Meghalaya	Increase in area under horticulture	На	66.02	122.04	
		Increase in area under fuel & fodder				
		Increase in milk production		NA	NA	
		No. of SHGs	No.	2	6	
		Increase in no. of livelihoods	Activities	a) Agriculture	a) Agriculture	
				b) Horticulture	b) Horticulture	
					c) Farm Pond	
					d) Rubber Plantation	
					e) Piggery Poultry	
		Increase in income	Rs.	200000-300000	500000-600000	
		Migration	Nos	Nil	Nil	
		No. of school going children	Nos.			
		SHG Federations formed	Nos	Nil	Nil	
		Credit linkage with banks	Nos	1	1	
		Resource use agreements	Nos			
		WDF collection & management		None	a) Total WDF to be	
					collected=Rs.5%	
					b) WC shall formulate	
					guidelines for	
					utilization of WDF	
		Summary of lessons learnt			Nil	

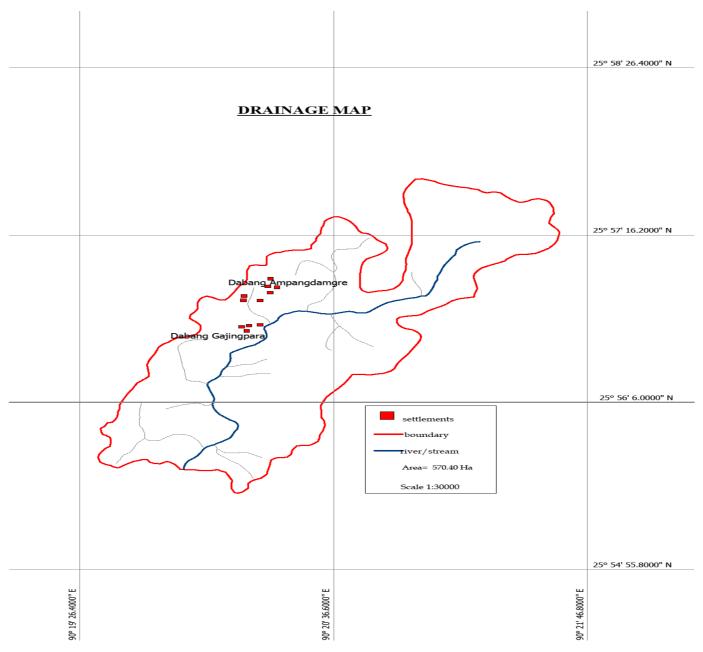
Table 7.10 Cost effectiveness of structures/ activities*

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	WGH IWMP_IX	Upper Dabang	As per action plan	54.75	74.55	-	-	1:1.45

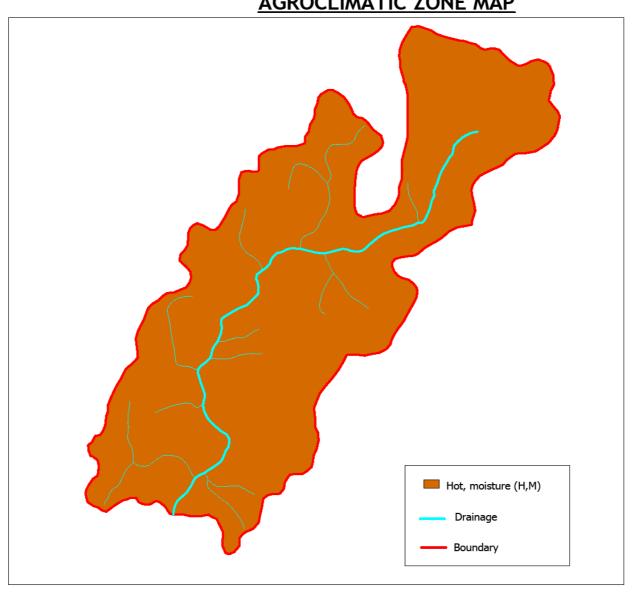
^{*} from column no. 2, total no. of States implementing the programme, from column no. 3, total no. of Districts; from Column no. 4, no. of projects, from column no. 5, no. of WCs, from column no. 6, no. of structures/ activities, from column no. 7 to 10, category-wise# totals, may be mentioned at the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

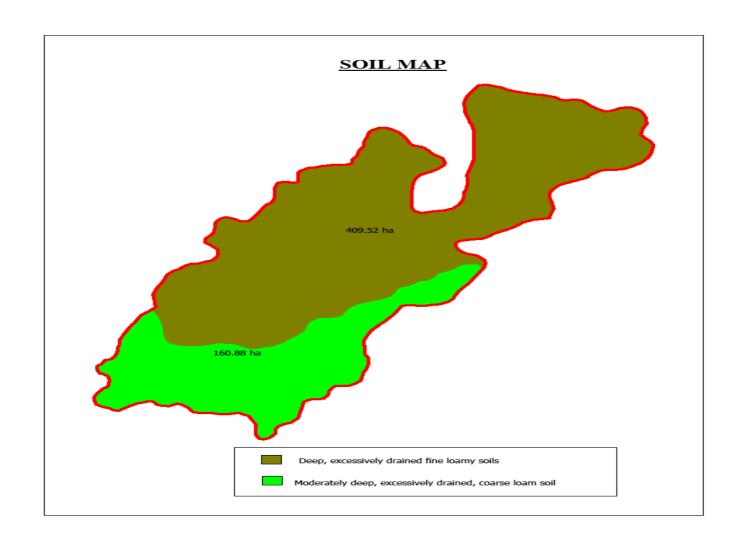
^{*}B:C ratio more than 1 – cost effectivess than 1– Not cost effective

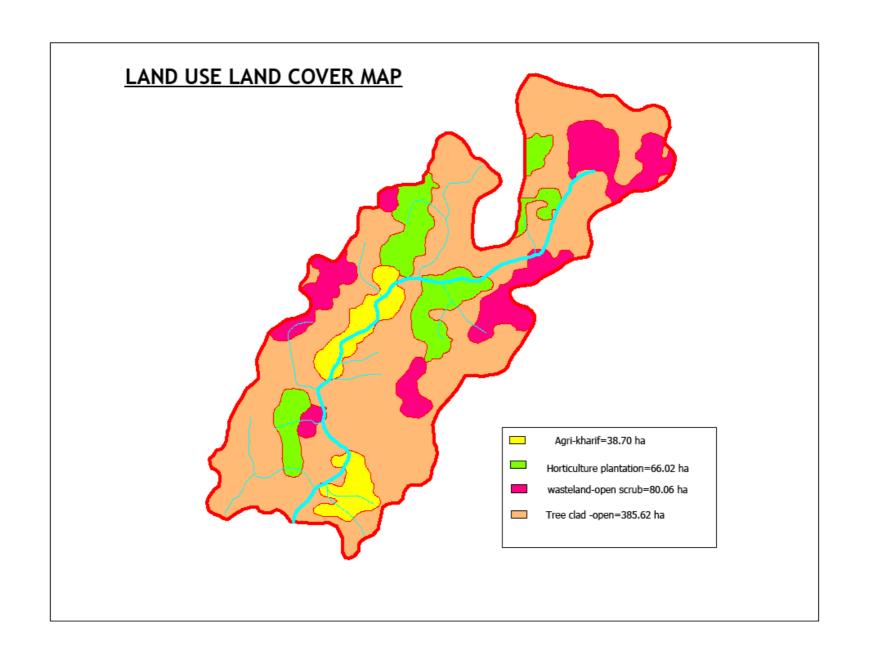
ANNEXTURE I MAPS

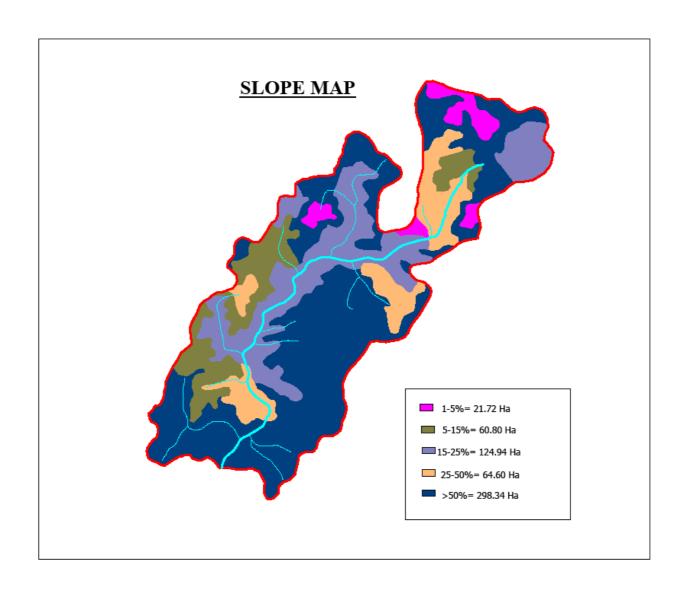


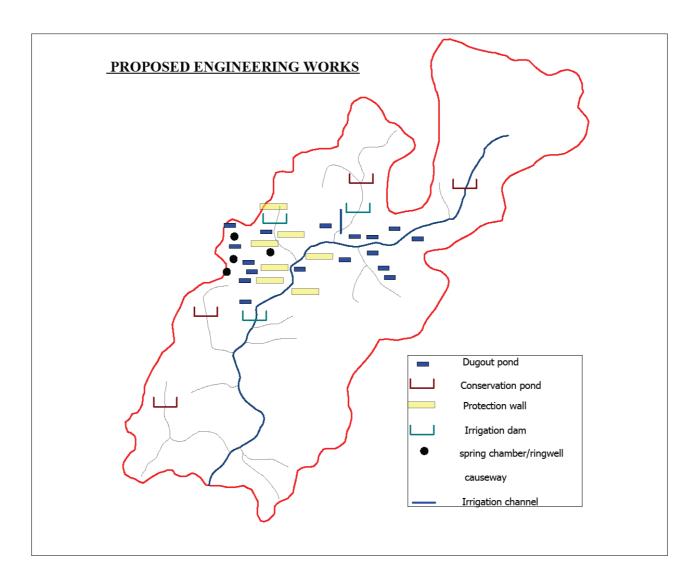
AGROCLIMATIC ZONE MAP

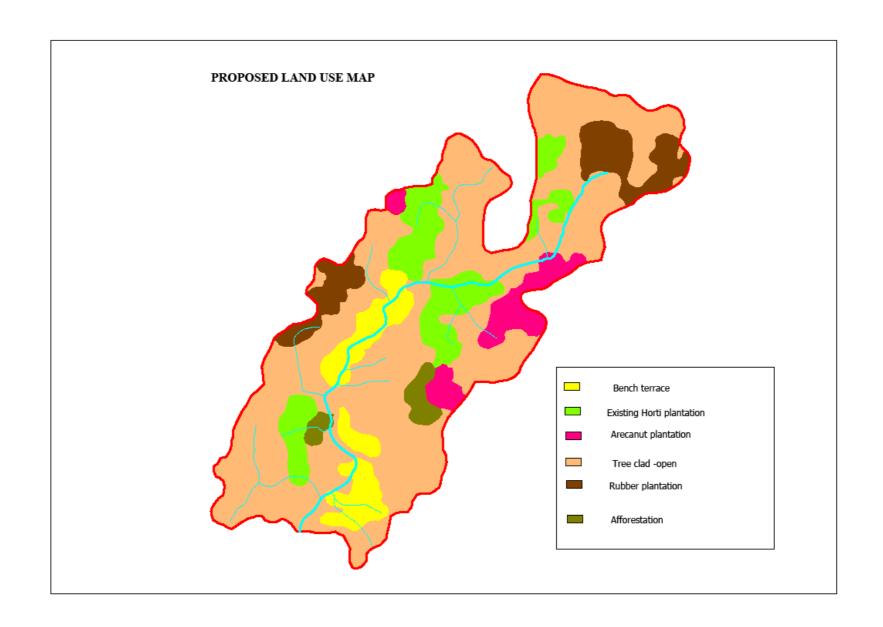












ANNEXTURE III COST ESTIMATES

MODEL NORMS PER HACTARE FOR TERRACING (IWMP)

A. Technical Parameters .

	G. Total	20000.00
v) Water Disposal structure (L/s)		1200.00
iv) Dressing, shaping and grading of terrace		950.00
iii) Cost of shoulder Bund @ Rs. 7/- m³		850.00
ii) Cost of terracing @ Rs. 10/- m³		15000.00
i) Jungle clearance including uprooting of stumps (L/s)		2000.00
B. Cost estimate.		Amount.
viii)Area available for cultivation (Ha.)		0.87
vii) Earthwork for shoulder Bund (m³)		62.32
vi) Shoulder Bund Length x-section (m²)		0.08
v) Shoulder Bund Length		779.00
iv) Earthwork = $12.50 \times W \times S m^3$		1200.00
iii) Terrace Length (m) = A/W + VI		767.00
ii) Vertical Interval (VI) = W x S/100 - S		2.5
i) Average terrace width recommended (m)		15.00

(Rupees twenty thousand) only.

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

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

Preliminary A. works.

i) site clearance 3 mandays @ Rs. 100/- each 300.00 Rs. ii) Pit digging (0.30 x 0.30 x 0.30) m 100 nos. @ Rs. 4/- each 400.00

sub - total Rs. 700.00

I st year В. Planting.

I) Cost of planting material 100 nos. @ Rs. 8/- each 800.00 ii) Cost of planting 100 nos. @ Rs. 2/- each Rs. 200.00 iii) Round weeding 4 times - 5 mandays @ Rs. 100/- each 500.00 Rs. iv) Plant protection measures 4 mandays @ Rs. 100/- each 400.00 sub-total

Rs. 1900.00

II year C. 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 400.00

> Rs. 1000.00 Sub-total 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
	ii) Box terracing including pit digging (0.45 x 0.45 x 0.45) mL/s
	Rs. 1350.00 500.00
	sub-total Rs. 9000.00 1300.00
В.	<u>I st Year Planting .</u>
	i) Cost of Fertilisers (NPK 45:30:45) including transportation Rs. 2000.00
	ii) Cost of 2 times application (June-July and September - October)
	14 mandays @ Rs. 100/- each Rs. 1400.00
	iii) 1st year weeding Rs. 1200.00
	Sub-total Rs. 4600.00
C.	<u>II nd year maintenance .</u>
	i) 2nd year weeding Rs. 2700.00
	Sub-total Rs. 2700.00
	Grand Total Rs. 8600.00

(Rupeeseight thousand six hundred) only.

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

A.	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. @		
C.	Rs.3000/- per 1000 nos. (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 equipments 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)

Excavation for

¹/134 structures.

(1) Ordinary

Soil.

A.(ii) 3m. to 6 m.

depth.

(i) Upto 3m.depth.

@ Rs.
$$61 / - m^3$$
 Rs.

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.

594.14

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

⁴/141 Plain/Reinforced c.c. in open foundation complete.

(A) PCC G - M

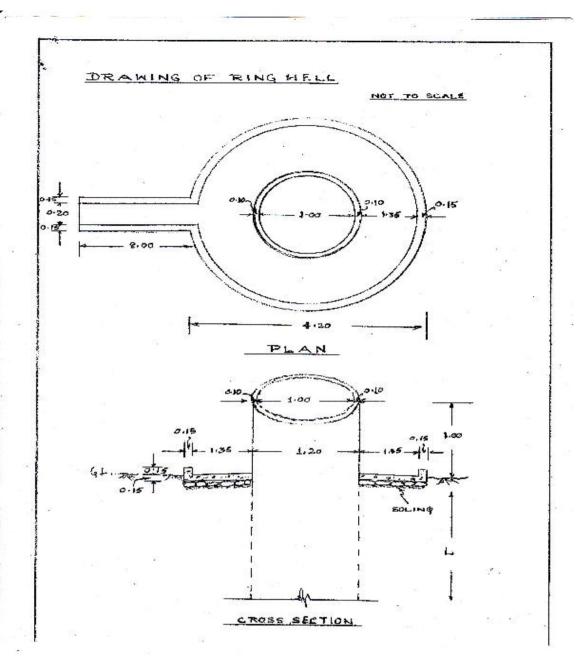
-15

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

60,000/-

Say Rs.

(Rupees Sixty Thousand) only.



(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.

M/dam: $1 \times 10.00 \times 1.20 \times 1.25$

15.00m³

G/wall: $2 \times 4.60 \times 0.50 \times 0.80 =$

 $3.68m^{3}$

W/wall: $2 \times 4.00 \times 0.50 \times 0.80 =$

 $3.20m^{3}$

T/wall: $1 \times 6.60 \times 0.60 \times 1.00 =$

3.96m³

Apron: $1 \times 4.60 \times 6.00 \times 0.45 =$

12.42m³

38.26m³

@ Rs. 47/- m³

Rs. 1798.22

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

M/dam: $1 \times 10.00 \times 1.20 \times 0.23$

 $= 2.76 \text{m}^3$

@ Rs. 3571/- m³

Rs. 9855.96

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

M/dam : 1 x 10.00 x 0.90 x 1.00

 $= 9.00 \text{m}^3$

 $1 \times 10.00 \times 0.45 + 0.90 \times 1.80$

= 12.15 m^3

2

2 x 2.00 x 0.45 x 0.75

 $= 1.35 \text{m}^3$

G/wall: 2 x 4.60 x 0.30 x 0.80

 $= 2.21m^3$

2 x 5.45 x 0.30 x 2.55

= 8.33m³

Less: 2 x ½ x 3.20 x 0.30 x 1.35

= (-) 1.30m³

W/wall: 2 x 4.00 x 0.30 x 3.35

= 8.04m³

T/wall: 1 x 6.60 x 0.40 x 1.00

= 2.64m³

Apron: 1 x 6.15 x 6.00 x 0.15

= 5.54m³

= 47.96m³

@ Rs. 4090/- m³

Rs. 196156.40

4/140(b). complete.

Stone masonry work in cement mortar 1:3 etc.

Apron: $1 \times 4.60 \times 6.00 \times 0.30$ = 8.28m^3 $1 \times \% \times 1.80 \times 6.00 \times 1.80$ = 9.72m^3 Less: $1 \times \% \times 0.45 \times 6.00 \times 1.80$ = $(-) 2.43\text{m}^3$ ------

@ Rs. 2714/- m³ Rs. 42256.98

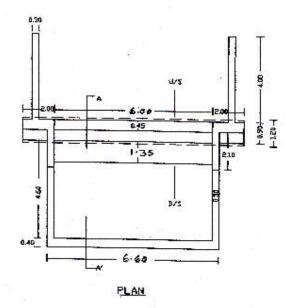
GRAND TOTAL = Rs. 250067.56

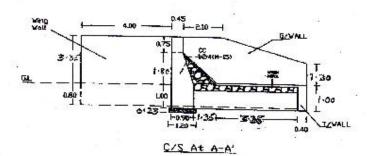
Say, Rs. 2,50,000.00

(Rupees Two lakh fifty thousand) only.

C. C. CHECK DAM

Not to Scale





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 : $1 \times 8.00 \times 1.40 \times 1.10$ = 12.32m^3

=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.

=44.10m³ Core wall: $1 \times 18.00 \times 0.40 + 1.00 \times 3.50$

 $= 3.68 \text{m}^3$ = 0.80m^3 L/channel : 2 x 8.00 x 0.20 x 1.15

1 x 8.00 x 1.00 x 0.10

=48.58m³

@ Rs. 4090/- m³ Rs. 198692.20

Construction of embankment. 4/28.

> = 297.00m³ $1 \times 18.00 \times \frac{2.50 + 8.50}{2} \times 3.00$ Dam:

 $= (-) 27.00 \text{m}^3$ Less: $1 \times 18.00 \times 0.40 + 0.80 \times 2.50$ 2

 $= 270.00 \text{m}^3$

@ 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 x 18.00 x 4.24 x 0.20

 $= 15.26 \text{m}^3$

L/Channel : 1 x 8.00 x 1.00 x 0.20

 $= 1.60 \text{m}^3$

 $= 16.86 \text{m}^3$

@ Rs. 1086/- m³

.....

Rs. 18309.96

6/37. Turfing with sods.

Dam D/S: 1 x 18.00 x 4.24

 $= 76.32 \text{m}^2$

@ Rs. 46/- m²

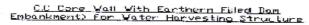
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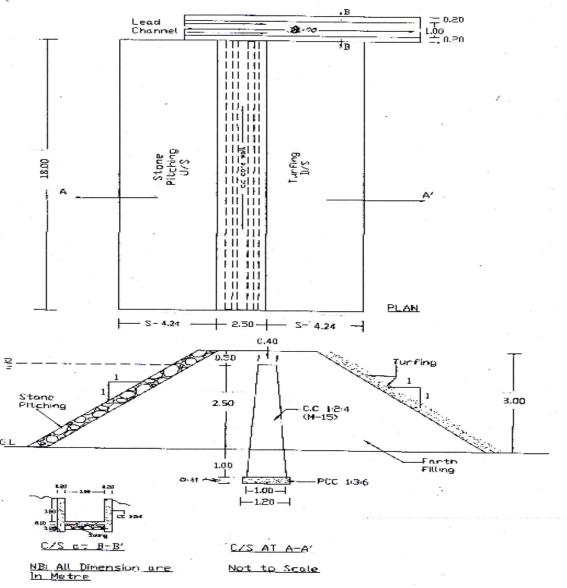
Rs. 3510.72

GRAND TOTAL = Rs. 250029.90

Say, Rs. 2,50,000.00

(Rupees Two lakh fifty thousand) only.





ESTIMATE FOR THE CONSTRUCTION OF DUG OUT POND.

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

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

Dug out Pond:

Vol:
$$\underline{D}$$
 (26.00 x 24.00) + 4 (24.00 x 22.00) + (22.00 x 20.00)
= $\underline{2.00}$ (624.00) + (2112.00) + (440.00)
= $\underline{2.00}$ (3176.00)
= 1058.67m³

@ Rs. $47/- m^3$

.

Rs. 49757.49

2/44(i). Surface drains in soil.

(A) Manual Means.

Length: 10.00 metres.

@ Rs. $25/- m^3$

.....

Rs. 250.00

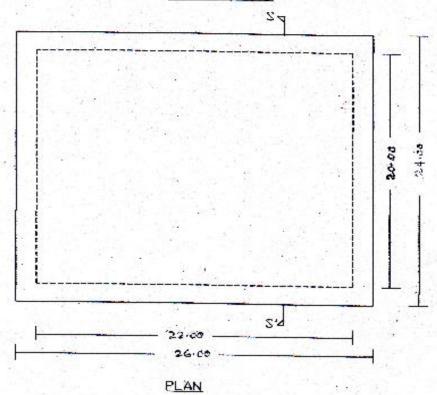
GRAND TOTAL = **Rs.** 50007.49

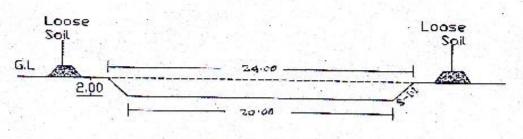
Say, Rs. 50,000.00

(Rupees Fifty thousand) only

DUG OUT POND

Not to Scale





C/S AT S-S'

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.

$$1 \times 10.00 \times 1.35 \times \frac{1}{2} (1.10 + 0.60) = 11.48 \text{m}^3$$

$$1 \times 10.00 \times \frac{1}{2} \times 1.35 \times 0.38 = 2.57 \text{m}^3$$

 $= 14.05 \text{m}^3$

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.

$$1 \times 10.00 \times \frac{0.60 + 1.10}{2} \times 1.75 = 14.88 \text{m}^3$$

$$1 \times 10.00 \times \frac{1}{2} \times 1.10 \times 0.28 = 1.54 \text{m}^3$$

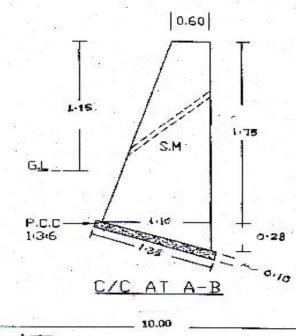
 $= 16.42 \text{m}^3$

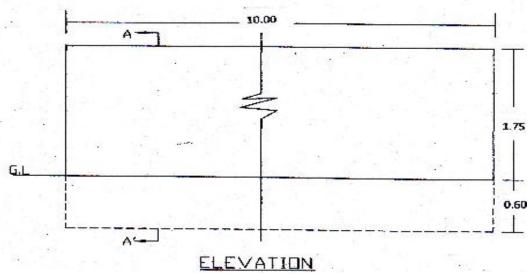
GRAND TOTAL = Rs. 50045.08

Say, Rs. 50,000.00

(Rupees Fifty thousand) only.

STONE MASONRY PROTECTION WALL Not to Scale





ANNEXTURE IV MoA, SUB-COMMITTEE DETAILS ETC

Name o	f Villages:	a) Dabang-	Gajinpara	b) Daban	g-Ampangdamgre				
	1	2	3	4	5			6	7
SI. No.		Names of	Names of Departments with Schemes	Fund made available to IWMP due	undertaken with converg		Amount(Do)	Reference no. of activity/ task/	Level at which decision for convergence was
		projects	converging with IWMP		(b)Livelihoods (C)Any other (pl specify)	Nos/Rmt/Ha	Amount(RS)	structure in DPR [@]	taken ^{\$}
					a)Dugout pond	16 Nos	800000		
					b)Stone masonry protection wall	14 Nos	700000	Enclosure of	
					c) Water harvesting farm pond	2 Nos	750000	Abstract of	
1	WGH	WGH-	NREGS (DRDA, West Garo	3688000	d) C.C Check cum Irrigation dam	1 Nos	750000	Perspective Plan for	District Level
		IWMP-IX	Hils, Meghalaya)		e) Earthen irrigation channel	2292 Rmt	89000	Convergence of NREGs with	
			iviegitataya j		f) Wet terrace	17 Ha	75000	IWMP in DPR	
					g)Rubber Plantation	40 Ha	292000		
					h) Arecanut Plantation	20 Ha	232000		
				Grand Total			3688000		
Grand 1	Total: Thir	ty six lakhs	and eighty eigh	t thousand only.					
Fnclose	d. Ahstra	ct of Perspe	ective Plan for Co	nvergence of NR	EGS with IWMP.				

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 Commissioner, West Garo Hills Dist, Tura. ABSTRACT OF PERSPECTIVE PLAN FOR CONVERGENCE OF MREBS WITH MINIP AT DABAMB-SALINPARA VELLAGE UNDER UPPER DABANG MICRO WATERSHED, WIGHTWIRFLY

> Venezi the vitage Dabang-Gajinpara the Novel Sub-Chalcing States

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Cary Total

Vabang-Gafringhara V.B.C.

WREGS THEIGHT Prv. Block

KYRIBECCK WCH

ARSTRACT OF PERSPECTIVE PLAN FOR CONVERGENCE OF NRES» WITH INING AT CABANG-AIAPANGRANGRE VILLAGE UNDER UPPER DABANG NICROWANTERSHED, WIGHTIMAP, IX

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Oaborg-Godenagoro V.B.C.

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AGREEMENT FOR CONVERGENCE OF SCHEME

The Village Employment Councils (VEC) and the Communities of Dahang Gajingpara Villages, Tikrikila Blocks, West Garo Hills, Moghalaya have no objection to the Convergence of NRECS with Integrated Management Project (IWMP) at Hipper Dahang village under Upper Dahang Micro-Watershed, WGH-IWMP-IX being implemented by Tura Soil & Water Conservation (T) Division.

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

- 1. Dugout Pond
- 2. Wet Tetrace
- 3. C.C. Irrigation Dam
- 4. Areca mit Plantation
- 5.Stone Masonry Protection Wall
- 6. Earthen Irrigation Channel
- 7.Water Harvesting Farm Pond

B. Rubber Plantation

President.

Oabang-Gajingpara V.E.C.

President,

Village Employment Council
Upper Dabang

Upper Dahang
Tikrikilla Block, WGH
Tikrikilla Block, WGH

VIII. Debang Gojingpara V.Z.L.

MREGS Tekrikille Dev. Block

West Good Hilly, (Megh.)

Village Employment Council

AGREEMENT FOR CONVERGENCE OF SCHEME

The Village Employment Councils (VEC) and the Communities of Ampangdatagre Villages, Tikkrikilla Blocks, West Garo Hills, Meghalaya have no objection to the Convergence of NREGS with Integrated Management Project (IWMP) at Ampangdamgre village under Upper Dabang Micro-Watershod, WGH-IWMP-IX being Implemented by Tura Soil & Water Conservation (T) Division.

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

- 1. Dugout Pand
- 2. Wet Terrace
- 3. C.C. Irrigation Dam
- 4. Areca put Plantation
- 5.Stone Masonry Protection Wall
- 6. Earthea Irrigation Channel
- 7. Water Harvesting Farm Pond
- 8. Rubber Plantation

Oakang-Galingpara V.E.C. West Garo Hase, 'Moch.

President,

Village Employment Council

Ampangdamgre Tikkrikilla Block, WGII Beerstaty.

VIII. Debang Gajingpara V.E. MREGS Tikriklite Der. Block Wen Goo Hills, (Megh.) Secretary

Village Employment Council

Ampangdamere Tikkrikilla Block, WGH

NO OBJECTION CERTIFICATE OF THE A-KING NOKMA FOR UPPER DABANG MICRO WATERSHED DEVELOPMENT PROJECT TO BE TAKEN UP UNDER IWMP-IX PROJECT BY TURA SOIL & WATER CONSERVATION(T)DIVISION

The A-king Nokma of Dahang Gajingpara village under Upper Dahang Microwatershed project, WGH-IWMP-IX has No Objection to the developmental activities to be undertaken in my A-king land by Soil & Water Conscription Department.

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

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

Name & Signature of A-king Nokma

okatjing K. Longma

VIII, Debeng-Gajingpate, West Gare Hills (Megh)

Countersigned by

Tura Soil Victoria Constitution
West Caro Hills Magnilaya

NO OBJECTION CERTIFICATE OF THE A-KING NOKMA FOR UPPER DABANG MICROWATERSHED DEVELOPMENT PROJECT TO BE TAKEN UP UNDER IWMP-VIII PROJECT BY TURA SOIL & WATER CONSERVATION (T) DIVISION

The A-king Nokma of Ampangdamgre village under Upper Dahang Microwatershed project, WGH-IWMP-IX has No Objection to the developmental activities to be undertaken in my A-king land by Soil & Water Conservation Department.

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

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

Name & Signature of A-king Nokma

VIII. Dabang-Bafingowa. West Garo Hills 1 asupto 1

Countersigned by

Division Officer, Tura Soil Control of Wall Officer Will Office Will Office Will Some Office of the Control of