GOVERNMENT OF MEGHALAYA



DEPARTMENT OF SOIL & WATER CONSERVATION(T)DIVISION DETAILED PROJECT REPORT

OF
WAJATA MICRO WATERSHED
UNDER
INTEGRATED WATERSHED MANAGEMENT PROGRAMME
WGH IWMP – VIII
2010 – 2011



TURA SOIL & WATER CONSERVATION(T)DIVISION WEST GARO HILLS, MEGHALAYA

SELSELA C&RD BLOCK

SUMMARY

Name of the Sate : Meghalaya

Name of the District : West Garo Hills

Name of the C&RD Block : Selsella

Name of the Villages : Wajatagiri

Name of the Project : WGH IWMP-VIII

Total Geographical Area : 750.2 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 Wajata (IWMP - VIII) Project is located in Selsela C&RD Block, West Garo Hills District of Meghalaya. Consisting of a single micro-watershed, the project area is drained by the Wajata River and its tributaries flowing in a South to North direction. The total area is 750.2 Ha. with 500 ha to be treated under the Integrated Watershed Management Programme (IWMP).

The Project area is located at a distance of about 10 km from Dadeng Civil Sub-Division and about 61 km from Tura the District Headquarter. There is only 1(one) village under the Project Area. i.e. Wajatagiri.

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 750.2 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 Wajata IWMP-VIII 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. 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:- NRGES.

CHAPTER II BASIC INFORMATION OF THE PROJECT AREA

CHAPTER II BASIC INFORMATION OF THE PROJECT AREA

2.1 Location:

The project area is located in West Garo HillsDistrict of Meghalaya.It lies between 25°42'34.2583 N to 25°39'34.6576" North Longitude and 90°04'59.1056" to 90°02'59.3718" East Latitude respectively. It falls under the Jurisdiction of Dadeng Sub-Division at a distance of 52 km from Tura the district Headquater of West Garo Hills . There is only one village within the Project Area. i.e. Wajatgiri

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 1-5%, however, in the middle 5-15% and upper reaches 15-25% it is greater than 50.%..

Table 2.1: Physiographic details

Elevation (metres)	Slope Range (%)	Order of watershed Sub/Micro-watershed	Major streams	Topography
40 – 144	1 – 50%	2 nd Order Micro W/S	Wajata stream, Chiore stream, Amguri stream, Rongro stream, Milsi stream, Chiseri stream, Tangjan stream, Gopram stream, Parang Stream.	Flat and Gentle slope.

2.2 Drainage:

The major stream draining the micro-watershed is the Wajata Stream which is 2nd order stream flowing in a north-south direction. The slopes of the micro-watershed are dissected by numerous small tributaries flowing to the Wajata Stream and drains into Jinjiram River.

2.3 Soil :-

Soil in general is moderately deep with clay to loamy clay in surface structure. They are moderately acidic in nature. The soil depth is deep to moderately deep. Due to uniform slopes and presence of many water courses, no drainage problem exist. The watershed area does not have a major erosion problem but of moderate erosion.

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:									
		West a Garo	West	a	Sheet									
			West Garo		b	Rill	500	NA	NA					
1	Meghalaya					c	Gully							
		Hills								Sub	total	500		
				Wind e	rosion	nil	nil	Nil						

2.4 Climate :-

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

Table 2.4: Agro-climatic zones of the project areas, soil types, average rainfall and major crops.

1	2	3	4	5	6	7		8	9							
		Name			Name	Major soil types		Average annual	Major cı	ops						
Sl.	Name	of the		Names of		a)	b)	rainfall in	a)	b) Area						
	of State	Agro-	(in	the	the	Type	Area	mm	Name	(ha)						
		climati	ha)	districts	Projec		(ha)	(preceding 5								
		c zone			ts			years' average)								
									Paddy	80						
		Central					238.		Maize	14						
		Hyper-			W.G.	Clayey	1		Millet	25						
	Meghal	thermi		West	H.				Jinger	30						
1	aya	Agro-	500	Garo Hills.	IWM P		P	P	P	P	P			3600	Arecanut	125
		climati c	climati V	VIII	Loamy	512. 1		Banana	15							
						Total	750. 2									

2.5 Agriculture :-

Agriculture is the primary occupation of the people of the area. The people mostly practice jhum. The jhum plots vary from 0.5 to 1.0 Ha, and are cultivated for 3-4 years. The principal agricultural crops grown of the jhum fields are paddy, potato, sweet potato, millet, maize, yam and vegetables etc. Fruit crops are well suited in the lower reaches which include, Elaegnus latifolia, orange, pineapple, jackfruit, litchi. The slopes of the Rimjong are also very suitable for betel nut, betel leaf, black pepper, broomstick, cashewnut 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	80	15	1200
Maize	14	20	280
Millet	25	8	200
Ginger	30	35	1050
Arecanut	125	8	1000
Tapioca	8	30	240

2.1 Natural Vegetation:

The tree species common to the watershed area includes – *Albizzia spp, Schima* wallichii, *Emblica officianalis, Bombax cieba*, and *bamboo spp*. However, due to Jhum cultivation and stone quarry, the forest cover of the area has reduced considerably.

2.2 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 .The entire population depends upon agriculture and horticulture, daily labour in the stone quarry for sustenance.

<u>Demographic Status</u>: The total households in the watershed project is nos. with a total population of 165 nos, of which86nos. are male and79 nos are female. The detail of the household in each of the villages in the watershed project is as follows:

1

Table 2.5: Infrastructure Status.

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 connected either to the main PWD Road.
- 2.1.2 *School:* There are only 2 L.P Schools within the Project Area run either by the Mission or by the Government.
- 2.1.3 *Electricity*: Connections have been provided but some villages are yet to have electricity.
- 2.1.1 *Health*: : One Community Health Centre at the projet area.
- 2.1.2 *Water Supply:* There is no drinking water facilities by the P.H.E. Department. 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.

2.1.3 *Market*: There is a weekly market held once in a week a Kalchengpara .However, the main market where the people sell their produce is at Selsella.

Table 2.5: Infrastructure Status.

1	2		3		4	1	
Name of	Name of		Parameters:		Sta	tuc	
District	Project		rarameters.				
	West	(i)	No. of villages connected to the	All villag	es are a	t 1 hr to 3	3 hrs
West	Garo		main road by an all-weather road.	walking f	rom the	motorab	ole
Garo	Hills –			junction			
Hills	IWMP						
	VIII						
		(ii)	No. of village provided with	1			
			electricity				
		(iii)	No. of households without access	40 nos.			
			to drinking water				
		(iv)	No. of educational institutions:	(P)	(S)	(HS)	(VI)
			Primary (P)/ Secondary (S)/				
			Higher Secondary (HS)/	2Nos.	-	-	-
			Vocational institution (VI)				
		(v)	No. of village with access to	Nil			
			Primary Health Centre				
		(vi)	No. of village with access	Nil			
			Veterinary Dispensary				
		(vii)	No. of village with access Post	Nil			
			Office				
		(viii)	No. of village with access Banks	Nil			
		(ix)	No. of village with access	Nil			
			Markets/ mandis				
		(x)	No. of village with access Agro-	Nil			
			Industries				
		(xi)	Total quantity of surplus milk	Nil			
		(xii)	No. of milk collection centres	(U)	(S)	(PA)	(O)
			(e.g. Union (U)/ Society (S)/	Nil	Nil	Nil	Nil
			Private agency (PA)/ Others (O))				
		(xiii)	No. of villages with access to	Nil			
			Aganwadi Centres				
		(xiv)	Any other facilities with no. of	Nil			
			villages (please specify)				

2.3 Livestock:

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

Table 2.6: Existing livestock population

Type of Animal	Population
Piggery	57
Poultry	314
Cattle	57
Goatry	52
Total	480

2.4 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:

Nam e	Name			No. of		Land holding (ha)			
of Distr ict	of the Project	Types of Farmer	No. of household	BPL househ olds	Irrigated	Rainfed	Total		
		(i) Large	-	-	-	-			
	WGH	(ii) Small	29	-	1	20	20		
WG	IWMP	(iii) Marginal	40	-	-	40	40		
Н	VIII	(iv) Landless	-	-	-	-	-		
		Sub - Total	69	-	-	60	60		

Table 2.5: Common Property Resources in the Project Area

1	2	3		4	<u> </u>				5	
Nam	Name		Total Area (ha) Area owned/ In possession of				Area available for treatment (ha)			
e of Distr ict	of the Proje cts	CPR Particulars	Pvt. Perso n	Govt. (speci fy deptt.	PRI	Any other (Com munit y)	Pvt. Perso n	Govt. (specify deptt.	PRI	Any other (Comm unity)
West	West	(i) Wasteland/ degraded land	-	-	-	49.85	-	-	-	328
Garo	Garo	(ii) Pastures	-	-	-	-	-	-	-	
Hills	Hills IWM P	(iii) Private Agriculture land	60	-	-	328.47	62	-	-	-
	VIII	(iv) Village woodlot	-	-	-	-	-	-	-	-
		(v) Forest	ı	-	ı	112.26	20	-	-	-
		(vi) Village Ponds/ Tanks	-	-	-	-	-	-	-	-
		(vii) Community Buildings	-	-	-	-	-	-	-	-
		(viii) Weekly Markets	-	-	-	-	-	-	-	-
		(ix) Permanent Markets	-	-	-	-	-	-	-	-
		(x) Temples/ Places of worship	-	-	-	-	-	-	-	-
		(xi) Others (Pl. specify) Horticulture Land	67	-	-	94.33	-	-	-	90
		Total	127	-	-	535.06	82	-	-	418

2.4 Land use and land cover:

As per the land use land cover map in the Watershed area has been broadly classified into the following land uses.

a) Built-up Area = 38.29 Ha
b) Agricultural land-crop land-kharif crop = 187.97 Ha
c) Horticulture Plantation = 161.33 Ha
d) Wasteland open-scrub = 49.85 Ha.
e) Forest – open = 112.26 Ha
f) Agri-two Cropped Area = 200.50 Ha

Total = 750.2Ha

2.5 Problems of the Area:

The primary problems of the area is jhumming. Majority of the population depends on Jhum Cultivation for their livelihood. Vast tracks of abandoned Jhum areas are converted to Stone Quarry areas which has further degraded the capability of the land. 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 is conducted in all the villages within the Watershed.

Further the major problems in the project area are :-

- (i) Unsustainable exploitation of forest vegetation.
- (ii) Absence of soil and water conservation measures.
- (iii) Lack of technical knowledge on crop management and water management.
- (iv) Poor socio economic set up.
- (v) Fire hazards

CHAPTER III PROJECT PLANNING & INSTITUTION BUILDING

CHAPTER III

PROJECT PLANNING & INSTITUTION BUILDING

3.1 Scientific Planning

i) Base Line Survey:

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 & socioeconomic 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) Participatory Rural Appraisal:

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	YES
	Whether technical back-stopping for the	
	project	Yes
	has been arranged? If yes, mention the name	NESAC,Nongsdiar
	of the Institute.	
	Baseline survey	YES
	Hydro-geological survey	NO
	Contour mapping	NO
	Participatory Net Planning (PNP)	NO

1	2	2
	Remote sensing data-especially soil/ crop/	YES
	run-off cover	1 L/3
	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	NO
	for high speed soil nutrient analysis	
	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)	
	7 · · · · (1 · · · · ·) 7	

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.

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

1

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
Nam es of the Distri cts	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	Educa- tional ualify- cation	Function/ s assigned#
				President	M		ST									VII	A to I
***	W.G.H-		** 1	Secretary	F		ST									BSc.	A to I
W.	IWMP	Wajata	Under	Member	8 M											1 to	A to I
G.H	VIII	3	progress	Member	2 F											VIII	A to I
				Member													

A. PNP and PRA

C. Maintenance of Accounts

payments

E. Supervision of construction activities

G. Verification & Measurement

I. Social Audit

- B. Planning
- D. Signing of cheques and making
- 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				4	5		6	
Names of the	Names of	Total	no. of reg	istered	SHGs	No. of	men	nbe	ers		SC in o	o. of C/ST each egory			PL in egory
Districts	projects	With only Men	With only Women	With both	Total	Categories	M	F	Total	M	F	Total	M	F	Tot al
	W.G.					(i) Landless									
W.G.	Н					(ii) SF									
Н	IWMP					(iii) MF									
	VIII					(iv) LF									
					NIL										

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	Names of		Total no.	of Ugs		No. o	f mem	bers		No. of Soca	C/ST tegory			of BPL i	
Districts	Projects	Men	Men Women Both			Categories	M	F	Tota 1	M	F	Total	M	F	Total
						(i)Landless									
WCH	W.G.H.					(ii) SF									
W.G.H	IWMP VIII					(iii) MF									
						(iv) LF									
Total					NIL				NIL			NIL			NIL

CHAPTER IV PROJECT ACTIVITIES

CHAPTER IV PROJECT ACTIVITIES

4.1 Preparatory Phase:

i) Entry Point Activities (EPA)

(Financial – Rs. in lakh)

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

i) 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	Preparati on of DPR	Evaluat ion of DPR	Any other (please specify)	Cost incurre d (Rs. In lakh)
W.G.H	W.G.H IWMP VIII	a) Rapport Building b) Community meeting c)Formatio n of Watershed committee m	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)Resour ce inventor y works. b) Georefering. c) Printing & publishing work.	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 Pro	ject						Propo	sed Projec	t				
								A		ation/ repa g structur		Con	struction	of new str	uctures		Tota	l target	
S l. N o	Nam e of State s	Name of Distri cts	Name of Projects	Type of structures	N o	Are a irrig ated (ha)	Stor age capa city	No	Area to be treate d (ha)	Storag e capacit y	Estima ted cost (in lakhs)	No	Area to be treate d (ha)	Storage capacit y (per unit)	Estimat ed cost (in lakhs)	No	Area to be treate d (ha)	Storag e capaci ty (m³)	Estima ted cost
1				Check Dam Cum irrigation dam	-	-	-	-	-	-	-	4 Nos	75 Ha	1012	10.0	4 Nos	90 Ha	1012	10.0
	Meg	WC	W.G.H IWMP	Water harvesting farm pond	-	-	-	-	-	-	-	4 Nos	152 Ha	2250	10.00	4 Nos	152 Ha	2250	10.00
	hala ya	W.G. H	VIII	Earthen Irri channel	-	-	-	-	-	-	-	673 rmt	40 Ha	-	0.337	673 rmt	40 Ha	-	0.337
				Earthen embankment	-	-	-	-	-	-	-	160. 5 rmt	25 Ha	-	1.12	160. 5 rmt	25 Ha	-	1.12
			Total		-	-	-	-	-	-	-	-	292ha	3262m³	21.457	-	292ha	3262m	21.457

	Augmentation/ repair of existing structures Construction of new structures Total achievement Change storage capacity (col 8-6) No Area irrigate d (ha) Storage capacity (in lakhs) No Area irrigated (in lakhs)													
	Achievement due to project Character Construction of new structures Total achievement Character Storage Construction of new structures Total achievement Character Storage Construction of new structures Character Storage Construction of new structures Character Ch													
Augm	Augmentation/ repair of existing structures Construction of new structures Total achievement													
No	irrigate		re incurred	No	irrigated		e incurred	irrigated	_			-		
-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-		

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

	1 2		3	4	5		6					7								8				9
							Pre- roject			Pı	opo	sed ta	rget				A	chiev	emen	t due 1	to pro	ject		
S	Nan oi	nes F	es of	Nam es of	type of		Area	repai re	menta ir of ex chargi tructur	isting ing	new		tion of arging ares	Total	target	repa r	gmentat ir of exi echargin structur	isting ng	new	structi recha tructui	rging	10	tal ement	Chang e in irrigat ed
	Sta		Distri cts	proje cts	S		irrigat ed (ha)		Area to be irriga ted (ha)	Estim ated cost		Area to be irrig ated (ha)	Estim ated cost	Area to be irriga ted (ha)	Estim		Area irrigate d (ha)	Exp endi - ture incu rred	No	Area irri- gated (ha)	ndi-	irri-	Expen di- ture incurr ed	oron
	Meg laya	gha		WGH IWM P	(i)Open wells		Nil		NIL			NII		NIL			NIL			NIL		NIL		NIL
				VIII	(ii)Bore wells																			
					(iii)Any others (Pl. specify) Dug Out Pond	-	-	-	-	-	6	15	3	15	3	-	-	-	-	-	-	-	-	-
					Total for the project	-	-	-	-	-	6	15	3	15	3	-	-	-	-	-	-	-	-	-

4.2.3 Activities executed by User Groups in the Project Areas.

	2				3			
Names of	Names of		Major activities of	f the UGs –Ta	rgets			
Districts	Projects		Structure/ act	tivity propose	d	No. of UGs	Estimated	Amount of WDF to
		Sl. No.	Туре	No.#	Treatment (ha)	involved	Cost	be collected (Rs.)
W.G.H	W.G.H	1.	C.C Check Dam cum irrigation Dam	4 Nos	75 Ha	2	10.00	.5
W.G.II	IWMP-VIII	2	Stone Masonry Protection wall	4 Nos	60 Ha	2	2.00	.10
		3	Water Harvesting Farm Pond	4 Nos	152Ha	1	10.00	.5
		4	Earthen Irrigation Channel	673 rmt	40 Ha	1	0.3365	.1682
		5	Dug out Pond	13Nos	25 Ha	2	6.5	.325
		6	Earthen embankment	160.5	25На	1	1.1235	.05617
		TOTAL					29.96	1.64937

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 WDF														
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	jor activities of the SHG	S
Names of the Districts	Names of projects	Name of activity	No. of SHGs involved	Average annual income from activity per SHG
		Piggery	3	.70
	W.G.H	Poultry	3	.70
West Garo Hills	IWMP-VIII	Fishery cum piggery	3	.45
	1 44 1411 - 4 111	Supply of fingerlings	3	.40
		Group rubber budded poly bag	6	.80
	Total	-	18	3.05

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

4		4	5		6	7		8		9	10
No. of	Total	assistance re (Amoun	ceived by the t in Rs.)	SHG	Total annual	Total annual	G	. of S rade	HGs d as	Fotal Amount	
SHGs given training	Loan from revolving fund	Training	Material	Others (pl. specify)	Income	Total annual Savings (Rs.)		II	III	of loan sanctioned by the bank(s)	No. of SHGs federated
		N	I	L							

4.2.7 Other activities of watershed works phase:

1	2		3		4		5		6		7	9		10		1	1	12	2	13
District	Names of projects		e area tment		age line tment				culture opment	Veterii servi	•	Fishe develop		conv	on- ention nergy	Any ((please s		Total cost incurred (Rs. In lakhs)		
		(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	iakiis)
			(Rs)		(Rs)		(Rs)		(Rs)		(Rs)		(Rs)		(Rs)					
WG H	W.G.H IWMP-	20	0.7	367	26.46	-	5.5	12	2.4	90	7.9	Pigger y Poultr y	1.5	Suppl y of finger lings	0.3	-	-	Kitch en garde n	4.0	
	VIII																	Rice Mill	0.5	
																		Dug out pond	3.5	
																		Fishe ry cum pigge ry	0.7 5	
	Total	-	0.7		26.46		5.5		2.4		7.9 2		2.7	-	0.3	-	-	1 y	8.7 5	54.75

4.2.8 Details of engineering structures in watershed works:

1	2	3		4			5		6			7	7							8		
			Турс	e of treatm	ent	Ту	pe of la	nd	Executing agency			Tar	get	,				A	chi	evem	ent	
District	Project	Name of structures	i) Ridge area (R)	(ii) Drainage line (D)	(iii) Land Dev. (L)	(i) Private	Com-	(iii) Others (pl. specify)	(iii) Others	No. of units (No./cum./rmt)		Estimat (Rs. in		cost	Expecte d month & year of completi on (mm/yyy	No. of Units (No./ cu.m./	E	Exper incu Rs. ir	ırre	ed	Status of compl e-tion	year of completio
											M	W	0	T	y)		M	W	О	T		
		Dug out Pond	-	D	-	P		-	UG/WC	13	-	6.5	-	6.5	3 yrs.							
		Check Dam cum irrigation Dam	-	D	-	-	C	-	UG/WC	4	6	4	-	10.0	3 yrs.							
		Wet Terrace	-		L	P		-	UG/WC	12ha	-	2.4	-	2.4	3 yrs.							i
W.G.H	W.G.H	Stone masonry Protection Wall	-	D	-	-	С	-	UG/WC	4	1.2	.8	-	2.00	3 yrs.							
W.O.11	VIII	Earthen irrigation Channel	-	D	-	-	С	-	UG/WC	673	-	.337		.337	3 yrs.							
		Water Harvesting farm pond.	-	D	-	-	С	-	UG/WC	4	6.0	4	-	10.0	3 yrs.							
		Earthen embankment	-	D	-	-	-	-	UG/WC	160.5 rmt	-	1.1235		1.1235	3 yrs.							
		Total									13.2	19.160 5	-	32.3605								

4.2.9 Details of engineering structures in watershed works.

	9																
							Outcomes										
		Water l	e (Rs.)		М	andays g	enerated			N	o. of beneficiaries						
Reduction in run off (cu.m)	Area treated# (ha)																
	(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	-	NA	-	NA	-	NA	-	-		11496	7664	19140	-	200	120	100	420

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

1	2	3		4			5		6			7				8	
			Туре	e of treat	ment	T	ype of l	land	Executing agency		7	Γarget				Achievement	
Distr ict	Projec t	Name of structure/ work	(i) Ridge area (R)	(ii) Draina ge line (D)	(iii) Land dev. (L)	(i) Priv ate	Com	(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	Expenditure incurred (Rs. in lakh)	Actual month & year of comple-tion (mm/ yyyy)
		Improvement of degraded forest.	R	-			С		UG/SHG	12		2.4	3 yrs				
	WGH	7.11															
WG H	IWMP -	Rubber Plantation	-	-	С		C		UG/SHG	50		4.4	3 yrs				
	VIII																
		Arecanut plantation	-	-	С	P			UG/SHG	40		3.52	3 yrs				
	TOTAL											10.32			•		

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								
	Outcomes														
	Produ	ction	Inco		Mandays generated No. of beneficiaries										
Reduction in run off (cu.m)	(quintal)		(Rs.)		S.C.	ST	Others	W	Total	SC	ST	Othora	Waman	Total	
	Pre-project	Post project	Pre- project	Post project	SC	51	(men)	Women	Total	SC	81	Others	Women	Total	
					2478	1651	4129								

4.2.12 Details of allied / other activities:

1	2	3		4		5		6	•	7
				Type of	land	Executing agency		Target	Achiev	ement
District	Project	Name of activity@	(i) Priva te	(ii) Communi ty	(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 garden	P		-	Individual	4.00	3 Yrs.		
		Fishery cum-piggery		С	-	SHG	6.50	3 Yrs.		
		Piggery		С	-	SHG	1.5	3 Yrs.		
West Garo Hills	W.G.H IWMP- VIII	Poultry		С	-	SHG	1.2	3 Yrs.		
	, 111	Supply Of Fingerlings	P	С	-	Individual/SHG	.30	3 Yrs.		
		Group Rubber Poly Bag nursery		С	-	UG/SHG	5.5	3 Yrs.		
		Total					19			

(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.)	Income (Rs.) Mandays generated No. of beneficiaries														
Pre-project	Post project	SC	ST	Women	Total	SC	ST	Others	Women	Total					
				4560	3040	7600									

4.3 Consolidation and withdrawal phaseDetails of activities in the CPRs in the project areas:

1	2	3	4	5			6				7				
						Ta	rget				Achieve	ment			
Names of the Districts	project	Name(s) Of the villages	CPR particulars	Activity proposed		Estimated expenditur	Expected no. of beneficia-	Estimated contribution to WDF	under	Expend iture incurre	no. of	No.	of man	days	WDF collecte
	S	Ü			activity (ha)	e (Rs.)	ries	(Rs.)	activity (ha)	d (Rs.)	aries	SC	ST	F	d (Rs.)
		Wajatagiri		Repairing Maintenance of CPR's		1.75		8750							
West Garo Hills	W.G.H IWMP VIII														

CHAPTER V PROJECT PHASING & BUDGETING

CHAPTER V PROJECT PHASING & BUDGETING

ACTION PLAN OF WAJATA WATERSHED UNDER IWMP TERRITORIAL DIVISION: TURA

На

Name of District :- West Garo Hills

No. of Village: 1 no
Project Area: 500

Name of C&RD Block:- Selsella

	I												
Sl. No	Activities	Ist Year	.(60%)	IInd V	ear(14%)	IIIrd Vo	ear(50%)	IV Von	r(25%)	U Vor	ar(5%)	Tota	l(in lakhs)
NO	Activities		1								`		,
		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:												
Α	Administrative Cost:-10%			2%		5%		3%				10%	
i	Honourarium of WDT Members @ Rs.8000/-												
	month-1 no.				0.96		0.96		0.96				2.88
ii	Honourarium of Watershed Committee												
	Chairman @500/ month				0.02		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				0.90
viii	Office expenses, POL, Stationeries, Printing of				0.454		4.044		0.500				4.546
	SHG's books, pamphlets,				0.174		1.044		0.528				1.746
	tea, snacks ets, cost of camera.			00/	4 = 0	=0.4	0 ==	201	0.05			4.007	
	TOTAL OF A:			2%	1.50	5%	3.75	3%	2.25			10%	7.50
	PREPARATORY PHASE: 4%												
В	Entry Point Activities:	4%											
i	Construction of Spring Chamber/Ringwell												
	@Rs60,000/- each	5 Nos.	3.00									5	3.00
	TOTAL OF B:		3.00										3.00

1	2	3	4	5	6	7	8	9	10	11	12	13	14
C	Institution & Capacity Building : - 5%	1%		2%		1%		1%					
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	0.20			6	1.35
iv	Capacity building of WC Members.			1	0.20			1	0.35			2	0.40
V	Capacity building of WDT/WV			1	0.20			1	0.20			2	0.40
	Total of C:		0.75		1.50		0.75		0.75				3.75
D	Detailed Project Report: 1%		1%										
i	Cost of Resources Inventories works		0.25										0.25
ii	Cost of PRA Exercises		0.10										0.10
iii	Cost of Land use Survey works		0.25										0.25
iv	Cost of formulating		0.15										0.15
	Total of D:		0.75										0.75
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		0.75		0.375				1.50
	TOTAL OF I (A - E)		4.50		3.375		5.25		3.375				16.50
II	PROJECT COST WATERSHED WORKS PHASE: 50%			7.5%		35%		7.5%					
A	Arable Land Treatment:												
i	Wet terrace@20000/ 12 ha			6	1.2	6	1.2					12	2.4
ii	Rubber plantation pre-works @5900/ha-50 ha					50	2.95					50	2.95
	1st yr. planting @Rs.2900/ha							50	1.45			50	1.45
iii	Arecanut plantation pre-works @Rs.5900/ha-40 ha					40	2.36					40	2.36
	1st yr. planting@2900/ha							40	1.16			40	1.16
	TOTAL OF - A				1.2		6.51		2.61				10.32
В	Non-Arable Land treatment:												
i	Improvement of degraded forest @3600/ha-20 ha												
	Preliminary Works@700/-Ha			20	0.14							20	0.14
ii	1stYear Planting @ 1900/- Ha				.38								.38
iii	2 nd Year Planting @ 1000/-Ha				.20								.20
	Total of B:				0.72		_						0.72
1	2	3	4	5	6	7	8	9	10	11	12	13	14

С	Drainage Line Treatment:										
i	C.C.Check-Cum-Irrigation dam @2,50,000/ each - 75 Ha				4	10.00				4	10.00
ii	Stone masonery protection wal l @50,000/each - 60ha		3	1.5	1	.50				4	2.00
iii	Dug-out pond @50,000/-each -15 ha		4	2.00	1	0.50	1	.5		6	3
iv	Water harvesting farm pond @2,50,000/- each -152ha				3	7.50	1	2.50		4	10
v	Earthern irrigation channel @Rs. 50 /- Rm40 ha		410	0.205	233	.1165	30	0.015		673	0.3365
vi	Earthern embankment @Rs. 700 /- Rm. 25 ha				160.5	1.1235				160.5	1.1235
	TOTAL OF C			3.705		19.74		3.015			26.46
	TOTAL OF A+B+C		7.5%	5.625	35%	26.25	7.5%	5.625		50%	37.50
D	Livelihood Activities for landless person: 10%										
i	Kitchen garden @2,500/unit		30	0.75	50	1.25	80	2.00		160	4.00
ii	Dug-out pond @50,000/-each -10 ha				2	1.00	5	2.5		7	3.50
	Total of D:		1%	0.75	3%	2.25	6%	4.50		10%	7.50
E	Production system and Micro Enterprises (SHG's) - 13%										
i	Piggery unit @Rs.30,000 /- per unit		1	0.30	1	0.30	3	0.9		5	1.5
ii	Poultry unit @Rs.30,000 /- per unit						4	1.2		4	1.2
iii	Fishery cum piggery unit @ Rs.25000/- unit		1	0.25			2	0.5		3	0.75
iv	Supply of fingerlings @10000/- per unit		2	0.2			1	0.1		3	0.30
v	Group Rubber budded poly bag nursery @25000/- per 1000 plant				13,800	3.45	8200	2.05		22000	5.5
	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

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

1	2	3	4	5	6	6	7	8	9			10				11		
SI	Name of State	Name of Distri cts	Names of Project s	Year of sanc tion	Produra (dd/1 yyy From	ntion mm/	Area of the project s	Projec t cost (Rs. In lakh)	Names of Micro watersheds & Code nos. (as per DoLR's unique codification)	A	area (ha)	of the proje	cts			rea detail g within th	s (ha) ne projects)	
										Cultiv ated area Cultiv ated Uncultivated wasteland area			Agri. Land	Forest land	Comm unity land	Others (pl. specify) Horticul ture	Total area (ha)	
												a) Tempor ary fallow	b) Per manent					
1	Meghalaya	West Garo Hills	W.G.H IWMP- VIII		2010	2015	500	75	Wajata		480	20	-	72	20	308	100	500

Fund provision for the IWMP projects from all sources:

1	2	3	}					4						5
Distri ct	Name of Project s	IWMP	' Fund		ergence nds		om other s		n addition to	Instit	funds utional ance		ers (Pl. ecify)	
		Centra 1 Share	State Share	Name of Scheme	Amount (Lakhs)	Name of privat e sector	Financi al contri- bution	Name	Financial contri- bution	Nam e	Financ ial contri- bution	Nam e	Financi al contri- bution	Total
Megh alaya	W.G.H IWMP- VIII	67.5	7.5	NREGS	32.736	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	107.73

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

1	2	3	4		5					6		
				Distt.	Agency's Proj	ect Account d	letails		Watershed Com	mittee (WC)	account detail	s:
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- VIII	Tura Axis Bank	9110200144 91886	Current	Chairman W.C Secretary W.C Project Leader/W DT	Wajata	AXIS Bank Hawakhana, Tura.	91102001 4491886	Current	Chairman W.C Secretary W.C Project Leader/WD

Public-Private Partnership in the IWMP projects: NIL

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

^{*} 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		
S · N o	Sta te	Name of the Train ing Instit ute	Full Address with contact no., website & e- mail	Name & Designati on of the Head of Institute	Type of Institute	Area(s) of specialization\$	Accreditation n details	Refe r- ence Yea r	No. of traini ngs assign ed	No. of train ees to be train ed	No. of trainin gs condu cted	No. of trainee s trained
1		NIR D (NER)	Guwaha ti	Director	Central Govt.	Remote Sensing, Rural Devt.	NA					
2		SIRD	Nongsd er	Director	State Govt.	Capacity Building	NA					
3	Meghalaya	RRT C	Umran	Director	Don- Bosco	Agri-Horti, Animal Husbandry, Entrepreneurshi p	NA					
4		ICAR	Umiam	Director	Central Govt.	Do	NA					
5		VTC	Kyrdem Kulai	Director	State Govt.	Animal Husbandry	NA					
6		Fruit Gard en	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 $\underline{2010-11}$ as on $\underline{31/03/2010}$ (dd/mm/yyyy)*

1	2	3	4	5		6		7
	Total	No. of	No. of persons to be	No. of persons		of funding raining		utilized ıkhs)
Project Stakeholders	no. of persons	persons trained so far	trained during current financial year	trained during current financial year	a) DoLR	b) Any other (Pl. specify)	a) DoLR	b) Any other (Pl. specify)
PIAs	10	NIL	10	NIL				
WDTs	4	NIL	4	NIL				
Ugs	40	NIL	40	NIL				
SHGs	50	NIL	50	NIL				
WCs	10	NIL	10	NIL	3.75	NIL	.75	NIL
GPs	NIL	NIL	NIL	NIL				
Community	218	NIL	109	NIL				
Others Pl. specify)								
TOTAL	232	0	223	0	3.75	0	.75	0

Table 6.3: Information, Education & Communication (IEC) activities for the year $\underline{10\text{-}11}$ as on $\underline{31/03/10}$ (dd/mm/yyy)*

	1	2	3	4	5
	Activity	Executing agency	Estimated expenditure (Rs.)	Expenditure incurred (Rs.)	Outcome (may quantity, wherever possible)
1.	Awareness	S&WC (T) Division	0.40		a) Better understanding of Project Concept.b) Preview of Project achievement.
3.	Exposure Visits	S&WC (T) Division	0.95		
4.	Capacity Building	S&WC (T) Division	0.20		
			1.55		

CHAPTER VII EXPECTED OUTCOME

CHAPTER VII EXPECTED OUTCOME

Table 7.1 Employment related outcomes:

						1								2		
Sl	Name of				7	Wage emp	oloyme	nt					S	elf employ	ment	
No	Village		N	lo. of man	days			No	of benefi	iciaries			No	of benefi	ciaries	
		SC	ST	Others	Women	Total	SC	ST	Others	Women	Total	SC	ST	Others	Women	Total
1.	Wajatagiri	-	11466	-	7644	19110	-	70	-	30	100	-	-	-	-	-

Table 7.2 Migration Details:

1	2	3	4	5	6	7	8	9	1	.0
Names of the Districts	Names of Projects	Name of village	No. of persons migrating	No. of days per year of migration	Major reason(s) for migrating	Distance of destination of migration from the village (km)	Occupation during migration	Income from such occupation (Rs. in lakh)	identify majo	d migration or activities of esponsible (b) Livelihoods
				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		2			3	4
Wa	ges	Traiı	ning	Liv	elihoods	
Woman days	Amount (Rs. in lakh)	No. of women participants	Amount (Rs. in lakh)	No. of women beneficiaries	Value of assistance provided (Rs. in lakh)	Total (Rs. in lakh)
7644	7.84	70	1.5	20	3.00	12.54

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

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

1	2	3	4	5	6			7		8
Names of the Districts	Names of the projects	Names of the villages	Particular of CPR	Nature of right	Period of right	Be		y details (r milies)	o. of	User Charges (Rs.)
Districts	projects	villages	of Cl K	right	Hight	SC	St	Others	Total	(NS.)
			Reserved forest	FW/MFP/T	Unpurified					NIL
		Wajatagiri	Spring Chamber	Wd	Unpurified					NIL
Meghalaya	W.G.H		Check dam	Wi	Unpurified					NIL
	IWMP-VIII		Nallah Bund	Wi	Unpurified					NIL

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
O	for any right otl	her than indicated above (please specify)

^{*} 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.

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					
West Garo Hills	W.G.H IWMP-VIII	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 preject		oility of drinki of monyhs in a	O	Qualit	y of drinking	water	Comments
District	Name of the project	Pre-project	Post- project	Change in availability	Pre- project	Post- project	Change in quality	Comments
West Garo Hills	WGH IWMP-VIII	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-VIII	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			<u>r J </u>				5						6		
				,	Pre-pr	oject					Mi	d-term	l				P	ost-pr	oject	
Names of the Districts	Name of Projects	Name of crops		rea a)	Aver Yie (Qtl)	eld per	Prod	otal luction Qtl)	Ar (h	ea a)	Yi pe	rage eld r ha (tl)	Prod	otal uction (tl)	Ar (h		Yie per	rage eld ha etl)		roduction (tl)
			Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.
		Paddy	-	142.9 7	-	12	-	1715. 64	-	62. 1	-	15	-	931.5	167. 07	38	16	15	2673.12	570
		Maize	-	40	-	26	-	1040	-	33	-	24	-	792		33		24	-	792
		Vegetable	-	5	-	30	-	150	-	5	-	30	-	150	6	4	36	30	216	150
W.G.H	WGH IWMP-																			
	VIII																			
		Total	-	187.9 7	-	68	-	2905. 64	-	100 .1	-	69	-	1873. 5	173. 07	75	52	69	2889.12	1512

Irri. – Irrigated Rf – Rainfed

^{*} 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.

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

1	2	3	4	5			6)					,	7						8		
							Pre-pi	roject					Mid-	-term					Post-p	orojec	t	
SI N o.	Names of States	Names of the Districts	Name of Projec ts	Name of crops	Ar (h	rea a)	Yie (Qtl)	rage eld) per a.	To Prod or (Q	lucti n		rea a)	Aver Yie per (Q	eld ha	Produ	tal action (tl)	Ar (h		Aver Yie per (Q	eld ha	Tot Produ (Q	ıction
					Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.
	Meghalaya	West Garo	WGH IWMP	Paddy	-	-	-	-	-	1	1	136. 6	1	15	1	204 9	197	1	15	-	2955	-
		Hills	VIII	Vegetable	-	-	-	-	-	1	-	6	-	36	-	216	6	-	36	-	216	-
				Total	-		-				-	142. 6	-	51	-	226 5	203	-	51	-	3171	-

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

Irri. – Irrigated Rf – Rainfed

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-project					Mid-	term					Post-p	rojec	t			
Sl No	Names of States	Names of the Districts	Name of Project s	Name of crops	Ar (h		Aver Yie (Qtl)	per	To Prod o (Q	lucti n		rea a)	Aver Yie per (Q	eld ha	Tot Produ n (Qt	uctio	Arc (ha		Avei Yie per (Q	eld ha	To Produ (Q	ıction
					Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.
	Meghalaya	West	WGH		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Garo	IWMP		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Hills	VIII		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

^{*} 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	area under fod	der (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-VIII	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 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- VIII	5 yrs	-	-	112.26	20 ha	-	132.26

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

Table 7.6.6 Increase/ Decrease in area under horticulture:

1	2	3		4			5				
			Existing a	rea under horticu	lture (ha)		Achievement (ha)				
District	Name of project	Duration of Project	Source/Name of report	Year of reference	Area already under horticulture	Area under horticulture proposed to be covered through IWMP	Area under horticulture actually covered through IWMP	Change in area under horticulture			
W.G.H	W.G.H IWMP-VIII	5 yrs	NA	NA	161.33	55	NILL	216.33			

^{*} 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 3	area under fo	dder (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-VIII	5 yrs	-	-	-	-	-	-		

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

Table 7.7 Livelihood related outcomes:

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

1	2	3		4			5		6			7
Names of the	Name of	Tyme of Animal	Pre-project		Mid-ter	m		Post-proj	ect	Domonika		
Districts	Projects	Type of Animal	No.	Yield	Income	No.	Yield	Income	No.	Yield	Income	Remarks
	W.G.H											
West Garo Hills	IWMP-	Piggery										
	VIII	Poultry										
	Total for											
	all projects											
Total												

^{*} 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				
	Proje	Name of	Fund required	So	urces of f	unding (R	s.)	Actual Expenditure	N	No. of b	eneficia traineo	ries to b 1	e	No. of beneficiar activi			U .	
District	ct	activity	for the activity (Rs.)	Project Fund	Benefi -ciary	Others (pl. specify)	Total	incurred on activity (Rs.)	SC	ST	Othe rs	Wome n	Tot al	SC	ST	Oth ers	Wome n	Total
	WGH	Tailoring	.80	.80			.80											
West Garo Hills	IWM P VIII	Kitchen Gardenin g	4.00	4.00	-	-	4.00	-	1	30	-	20	50	-	30	1	20	50
		Dug Out Pond	3.50	3.00			3.00											

(Contd.)

Table 7.7.3 Details of other livelihoods created for landless people:

	9	10		11					
	sons employed in the activity	Annual increase in income due to activity	_	Impact of livelihoods programme Migration One of beneficiaries Development of backward forward linkages			Any other information		
Total	Grand Total (8+9)	(Rs.)	Pre-project	Post-project	Pre-project	Post-project	(pl. Specify)		
100	150	15000-20000	NJL	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 7.7.4 Details of other livelihoods created for farmers:

1	2	3	4			5		6			7		8			
			Fund required	Source	s of fundi	ng (Rs.) in	Lakhs	Actual Expenditure	No	No. of farmers trained			No. of farmers taking up activity			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
	WGH	Wet Terrace	2.4	2.4			2.4	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
West	IWMP	Dugout Pond	3.00	3.00			3.00	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
Garo Hills	VIII	Arecanut Plantation	4.35	3.52			3.52	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		Rubber plantation	5.25	4.4			4.4	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		Kitchen Gardening	4.00	4.00			4.00									

^{*} 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
No. of persons employed indirectly in the activity		Annual increase in income due to		Impact of liveliho Migration (No. of beneficiaries)		t of backward- l linkages	Any other information
Total	Grand Total (8+9)	activity (Rs.)	Pre-project	Post-project	Pre-project	Post-project	(pl. Specify)
NIL	NIL		NIL	NIL	NIL	NIL	NIL
NIL	NIL		NIL	NIL	NIL	NIL	NIL
NIL	NIL		NIL	NIL	NIL	NIL	NIL

 $\begin{tabular}{ll} Table 7.8 & Marketing related outcomes: \\ Backward-Forward linkages * \\ \end{tabular}$

District	1	2	3	4	5	6
West Garo Hills	District	Project	Type of Marketing Facility	Pre-project (no.)		Post-project (no.)
West Garo Hills			(A) Backward linkages	NIL	NIL	NIL
IWMP VIII (iii) Fertilizer supply system (iii) Pesticide supply system (iv) Pesticide supply system (vi) Credit institutions 1 2 3 3 (vi) Water supply (vii) Extension services (viii) Extension services (viii) Nurseries (viiii) Nurseries (viiii			(i) Seed certification	NIL	NIL	NIL
VIII	West Garo Hills		(ii) Seed supply system	NIL	NIL	NIL
(v) Credit institutions 1 2 3 (vi) Water supply NIL 3 3 (vii) Extension services NIL NIL <td< td=""><td></td><td></td><td>(iii) Fertilizer supply system</td><td>NIL</td><td>NIL</td><td>NIL</td></td<>			(iii) Fertilizer supply system	NIL	NIL	NIL
(vi)Water supplyNIL33(vii)Extension servicesNILNILNILNIL(viii)NurseriesNILNILNILNIL(ix)Tools/machinery suppliersNILNILNILNIL(x)Price Support systemNILNILNILNIL(xi)LabourNILNILNILNIL(xii)Any other (please specify)NILNILNILNIL(xii)Arorard linkages(i)Harvesting/threshing machineryNILNILNILNIL(ii)Storage (including cold storage)NILNILNILNIL(iii)Road network1111(iv)Transport facilitiesNILNILNILNIL(v)Markets / MandisNILNILNILNIL(vi)Agro and other IndustriesNILNILNILNIL(vii)Milk and other collection centresNILNILNILNIL(viii)LabourNILNILNILNIL		VIII	(iv) Pesticide supply system	NIL	NIL	NIL
(vii) Extension services			(v) Credit institutions	1	2	3
(viii) NurseriesNILNILNIL(ix) Tools/machinery suppliersNILNILNIL(x) Price Support systemNILNILNIL(xi) LabourNILNILNILNIL(xii) Any other (please specify)NILNILNILNIL(A) Forward linkages(i) Harvesting/threshing machineryNILNILNILNIL(ii) Storage (including cold storage)NILNILNILNIL(iii) Road network1111(iv) Transport facilitiesNILNILNILNIL(v) Markets / MandisNILNILNILNIL(vi) Agro and other IndustriesNILNILNILNIL(vii) Milk and other collection centresNILNILNILNIL(viii) LabourNILNILNILNIL			(vi) Water supply	NIL	3	3
(ix)Tools/machinery suppliersNILNILNIL(x)Price Support systemNILNILNIL(xi)LabourNILNILNILNIL(xii)Any other (please specify)NILNILNILNIL(A)Forward linkages(i)Harvesting/threshing machineryNILNILNILNIL(ii)Storage (including cold storage)NILNILNILNIL(iii)Road network1111(iv)Transport facilitiesNILNILNILNIL(v)Markets / MandisNILNILNILNIL(vi)Agro and other IndustriesNILNILNILNIL(vii)Milk and other collection centresNILNILNILNIL(viii)LabourNILNILNILNIL			(vii) Extension services	NIL	NIL	NIL
(x)Price Support systemNILNILNIL(xi)LabourNILNILNIL(xii)Any other (please specify)NILNILNIL(A)Forward linkages(i)Harvesting/threshing machineryNILNILNIL(ii)Storage (including cold storage)NILNILNIL(iii)Road network111(iv)Transport facilitiesNILNILNIL(v)Markets / MandisNILNILNIL(vi)Agro and other IndustriesNILNILNIL(vii)Milk and other collection centresNILNILNIL(viii)LabourNILNILNIL			(viii) Nurseries	NIL	NIL	NIL
(xi)LabourNILNILNIL(xii)Any other (please specify)NILNILNIL(A)Forward linkages(i)Harvesting/threshing machineryNILNILNIL(ii)Storage (including cold storage)NILNILNIL(iii)Road network111(iv)Transport facilitiesNILNILNIL(v)Markets / MandisNILNILNIL(vi)Agro and other IndustriesNILNILNIL(vii)Milk and other collection centresNILNILNIL(viii)LabourNILNILNIL			(ix) Tools/machinery suppliers	NIL	NIL	NIL
(xii) Any other (please specify)NILNILNIL(A) Forward linkages(i) Harvesting/threshing machineryNILNILNIL(ii) Storage (including cold storage)NILNILNIL(iii) Road network111(iv) Transport facilitiesNILNILNIL(v) Markets / MandisNILNILNIL(vi) Agro and other IndustriesNILNILNIL(vii) Milk and other collection centresNILNILNIL(viii) LabourNILNILNIL			(x) Price Support system	NIL	NIL	NIL
(A) Forward linkages(i) Harvesting/threshing machineryNILNILNIL(ii) Storage (including cold storage)NILNILNIL(iii) Road network111(iv) Transport facilitiesNILNILNILNIL(v) Markets / MandisNILNILNILNIL(vi) Agro and other IndustriesNILNILNILNIL(vii) Milk and other collection centresNILNILNILNIL(viii) LabourNIL55			(xi) Labour	NIL	NIL	NIL
(i)Harvesting/threshing machineryNILNILNIL(ii)Storage (including cold storage)NILNILNIL(iii)Road network111(iv)Transport facilitiesNILNILNILNIL(v)Markets / MandisNILNILNILNIL(vi)Agro and other IndustriesNILNILNILNIL(vii)Milk and other collection centresNILNILNIL(viii)LabourNIL55			(xii) Any other (please specify)	NIL	NIL	NIL
(ii)Storage (including cold storage)NILNILNIL(iii)Road network111(iv)Transport facilitiesNILNILNILNIL(v)Markets / MandisNILNILNILNIL(vi)Agro and other IndustriesNILNILNILNIL(vii)Milk and other collection centresNILNILNILNIL(viii)LabourNIL55			(A) Forward linkages			
(iii) Road network111(iv) Transport facilitiesNILNILNIL(v) Markets / MandisNILNILNIL(vi) Agro and other IndustriesNILNILNIL(vii) Milk and other collection centresNILNILNIL(viii) LabourNIL55			(i) Harvesting/threshing machinery	NIL	NIL	NIL
(iii) Road network111(iv) Transport facilitiesNILNILNIL(v) Markets / MandisNILNILNIL(vi) Agro and other IndustriesNILNILNIL(vii) Milk and other collection centresNILNILNIL(viii) LabourNIL55			(ii) Storage (including cold storage)	NIL	NIL	NIL
(v)Markets / MandisNILNILNIL(vi)Agro and other IndustriesNILNILNIL(vii)Milk and other collection centresNILNILNIL(viii)LabourNIL55				1	1	1
(v)Markets / MandisNILNILNIL(vi)Agro and other IndustriesNILNILNIL(vii)Milk and other collection centresNILNILNIL(viii)LabourNIL55			(iv) Transport facilities	NIL	NIL	NIL
(vii) Milk and other collection centresNILNILNIL(viii) LabourNIL55				NIL	NIL	NIL
(vii) Milk and other collection centresNILNILNIL(viii) LabourNIL55			(vi) Agro and other Industries	NIL	NIL	NIL
			(vii) Milk and other collection centres	NIL	NIL	NIL
			(viii) Labour	NIL	5	5
				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 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	
	Meghalaya	Ground water structures repaired/ rejuvenated	Nil	nil	nil	
		Quality of drinking water	nos	unsafe	Better quality	
		Availability of drinking water	-	10 months in a year	12 months availability	
		Increase in irrigation potential	nos		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	На		260.90	
		Iii Area under multiple crop	На	nil	nil	
		Net increase in crop production area		187.97	207.70	10.5% increase in cropping area
		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 2) Horticulture	1. Agriculture. 2. Horticulture. 3. vegetable Cultivation. 4. Piggery. 5. Poultry.	
		Increase in income	Rs.	20000-30000	50000-60000	
		Migration	Nos	nil	nil	
		No. of school going children				
		SHG Federations formed	Nos.	nil	1	
		Credit linkage with banks	Nos.	nil	1	
		Resource use agreements	Nos.	None	a.) NOC for development work.b.) Agreements	
		WDF collection & management				
		Summary of lessons learnt				

Table 7.10 Cost effectiveness of structures/ activities*

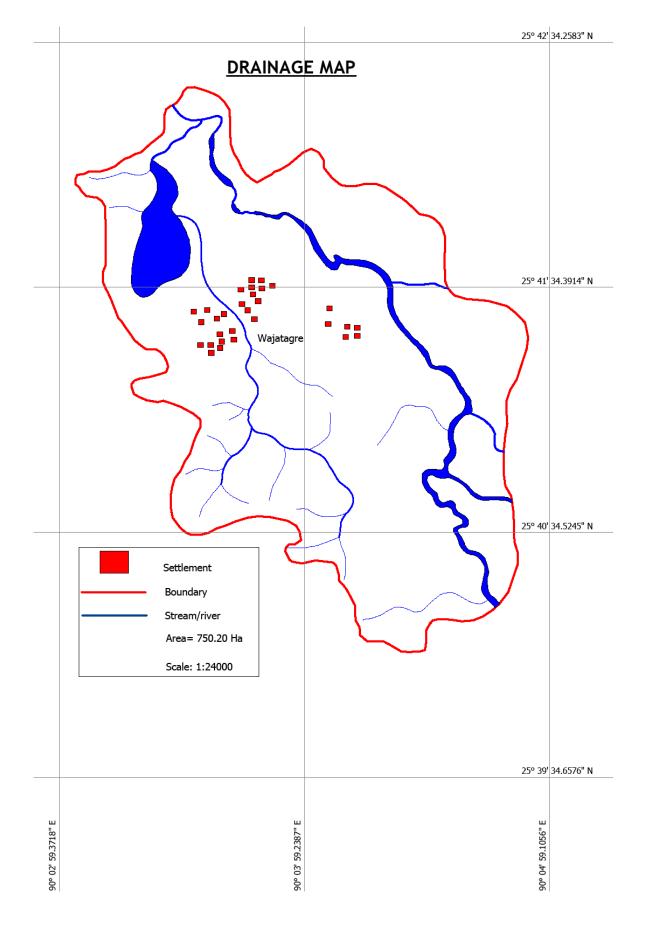
1	2	3	4	5	6	7	8	9	10
District	Name of project	Name of WC	Name of structure/ activity	Estimated cost (Rs.)	Expected quantifiable benefits (Rs.)	Expenditure incurred (Rs.)	Actual quantifiable benefit (Rs.)	Benefit: Cost ratio [#]	IRR
West Garo Hills	WGH IWMP VIII	Wajata	As per work plan	54.75	86.2	-	-	1:1.57	-

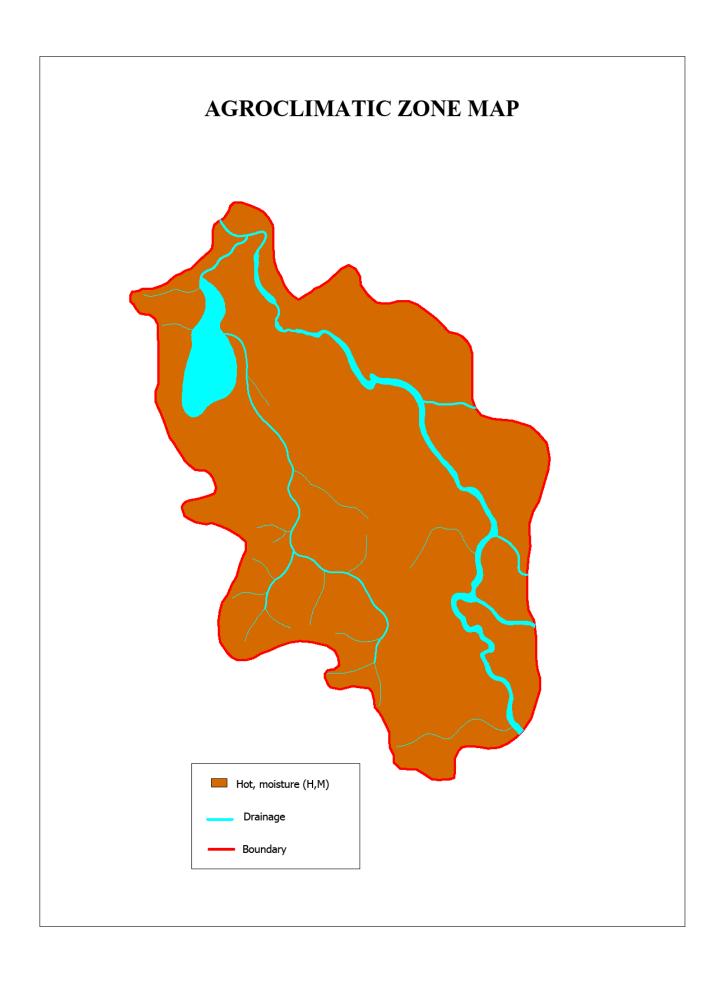
^{*} from column no. 2, total no. of States implementing the programme, from column no. 3, total no. of Districts; from Column no. 4, no. of projects, from column no. 5, no. of WCs, from column no. 6, no. of structures/ activities, from column no. 7 to 10, category-wise# totals, may be mentioned at the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

[#] B:C ratio more than 1 − cost effective less than 1 − Not cost effective

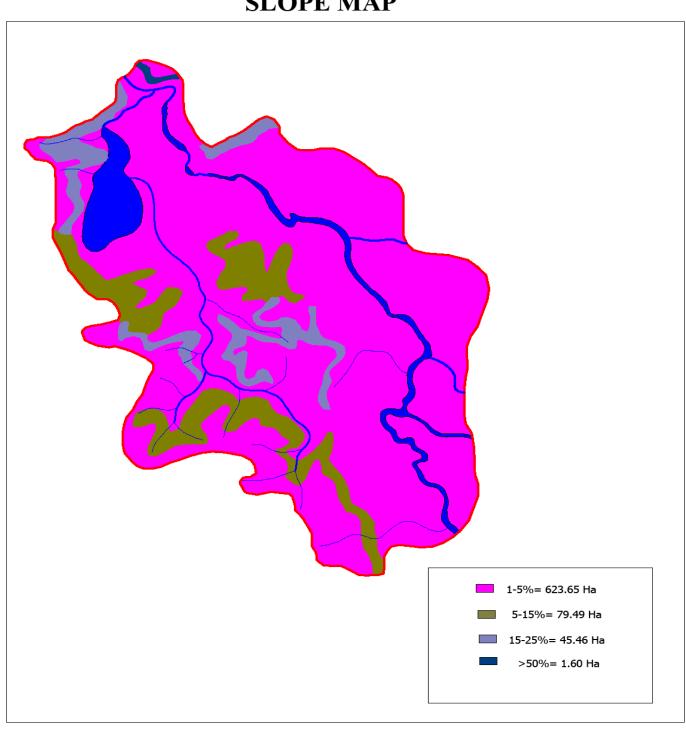
ANNEXURE-I

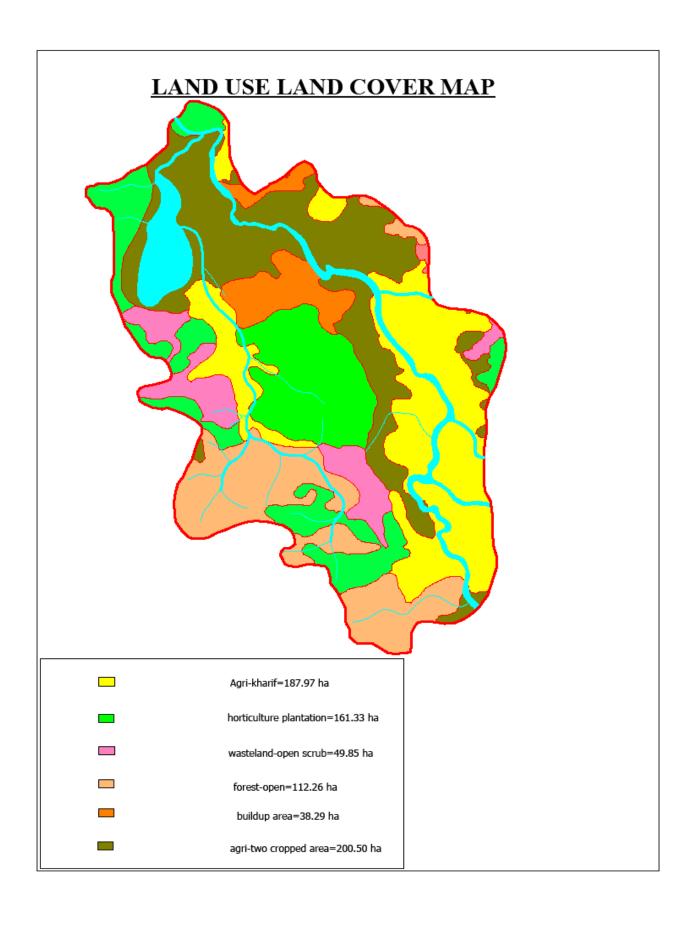
MAPS

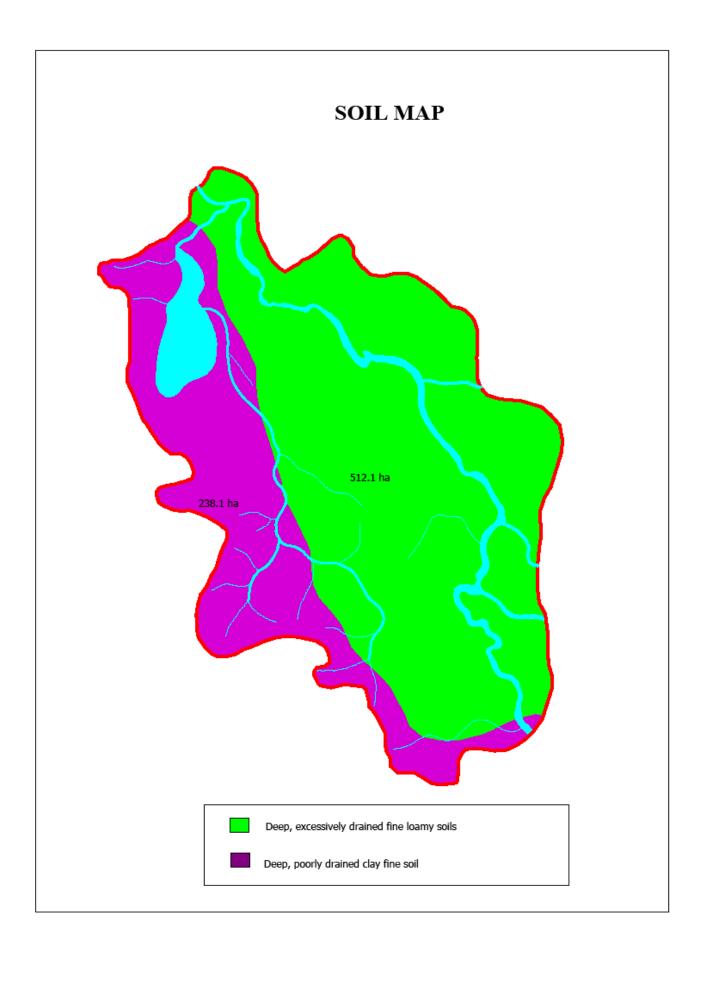


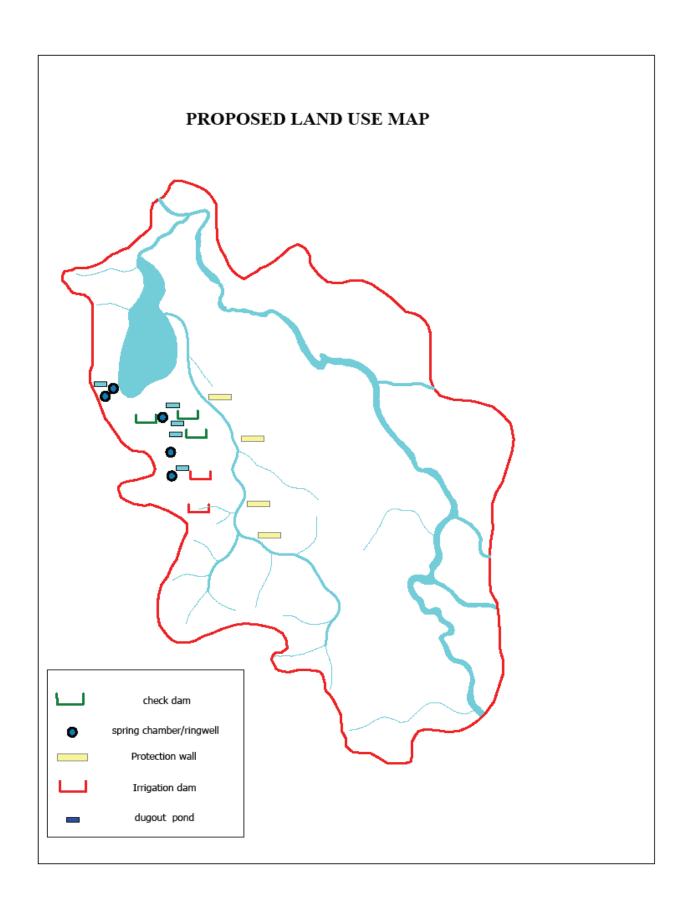


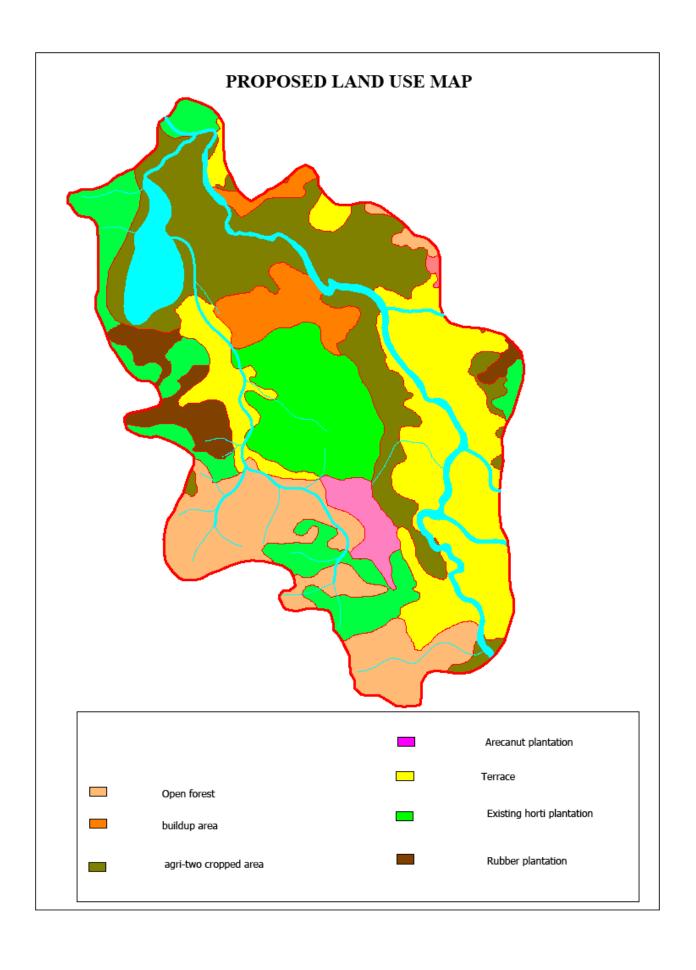
SLOPE MAP











ANNEXURE II

Socio-Economic-Survey

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.
В.	Cost estimate . i) Jungle clearance including uprooting of stumps	Amount.
В.		Amount. 2000.00
B.	i) Jungle clearance including uprooting of stumps	
B.	i) Jungle clearance including uprooting of stumps (L/s)	2000.00
В.	 i) Jungle clearance including uprooting of stumps (L/s) ii) Cost of terracing @ Rs. 10/- m³ 	2000.00 15000.00
В.	 i) Jungle clearance including uprooting of stumps (L/s) ii) Cost of terracing @ Rs. 10/- m³ iii) Cost of shoulder Bund @ Rs. 7/- m³ 	2000.00 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 .

suh - total	R	c	700 0	"
ii) Pit digging (0.30 x 0.30 x 0.30) m 100 nos. @ Rs. 4/- each	Rs.	400	<u> </u>	
i) site clearance 3 mandays @ Rs. 100/- each	Rs.	300	.00	

B. <u>I st year</u> Planting.

	sub-total	Rs. 1900.00
iv) Plant protection measures 4 mandays @ Rs. 100/- each	Rs.	400.00
iii) Round weeding 4 times - 5 mandays @ Rs. 100/- each	Rs.	500.00
ii) Cost of planting 100 nos. @ Rs. 2/- each	Rs.	200.00
I) Cost of planting material 100 nos. @ Rs. 8/- each	Rs.	800.00

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

i)	Refilling 10%	Rs.	100.00
ii)	Round weeding - 4 times- 5 mandays @ Rs. 100/- each	Rs.	500.00
iii)	Plant protection measures - 4 mandays @ Rs. 100/- each	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 Rs. 800.00
	ii) Box terracing including pit digging (0.45 x 0.45 x 0.45) mL/s
	sub-total Rs. 9000.00
В.	<u>I st Year Planting .</u>
	i) Cost of Fertilisers (NPK 45:30:45) including transportation Rs. 2000.00
	ii) Cost of 2 times application (June-July and September - October)
	14 mandays @ Rs. 100/- each Rs. 1400.00
	iii) 1st year weeding Rs1200.00
	Sub-total Rs. 4600.00
C.	II nd year maintenance .
	i) 2nd year weeding Rs. 2700.00
	Sub-total Rs. 2700.00
	Grand Total Rs. 8600.00

500.00 **1300.00**

(Rupeeseight thousand six hundred) only.

MODEL NORMS PER HACTARE FOR ARECANUT PLANTATION.

iii) 1st year weeding

Preliminary works

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

A.

В.

i)	Cost of seedling L/s	F	Rs. 800.00
"/	Cost of seeding L/s	,	13. 800.00
ii)	Box terracing including pit digging ($0.45 \times 0.45 \times 0.45$) m	L/s	
	<u></u>	Rs.	<u>1350.00</u>
	sub-to	tal Rs.	9000.00
Lat Voca Dlan	4 :		
<u>I st Year Plan</u>	<u>ung .</u>		
i)	Cost of Fertilisers (NPK 45:30:45) including transportation		Rs. 2000
	· · · · · · · · · · · · · · · · · · ·		

C. <u>II nd year maintenance</u>.

i) 2nd year weeding Rs. 2700.00

14 mandays @ Rs. 100/- each

Sub-total Rs. 2700.00

Sub-total Rs. 4600.00

Rs. 1400.00

Rs. 1200.00

500.00 **1300.00**

Grand Total Rs. 8600.00

(Rupeeseight thousand six hundred) only.

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

Excavation for 1/134

structures.

(1) Ordinary

Soil.

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

depth.

(i) Upto 3m.depth.

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

Rs. 594.14

84.60

Rs.

1 x 8.00 x 0.50 x 0.45 = 1.80
$$m^3$$
 @ Rs. 47 /- m^3

Providing and paying reinforced c.c.pipe for ring well including fixing collar with cement mortar 1:2 etc.

(A) 1200mm

dia.

²/69

Length = 6.25 metres.

Rs. 35131.25

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.
$$1065 / - m^3$$

Rs. 5442.15 ⁴/141 Plain/Reinforced c.c. in open foundation complete.

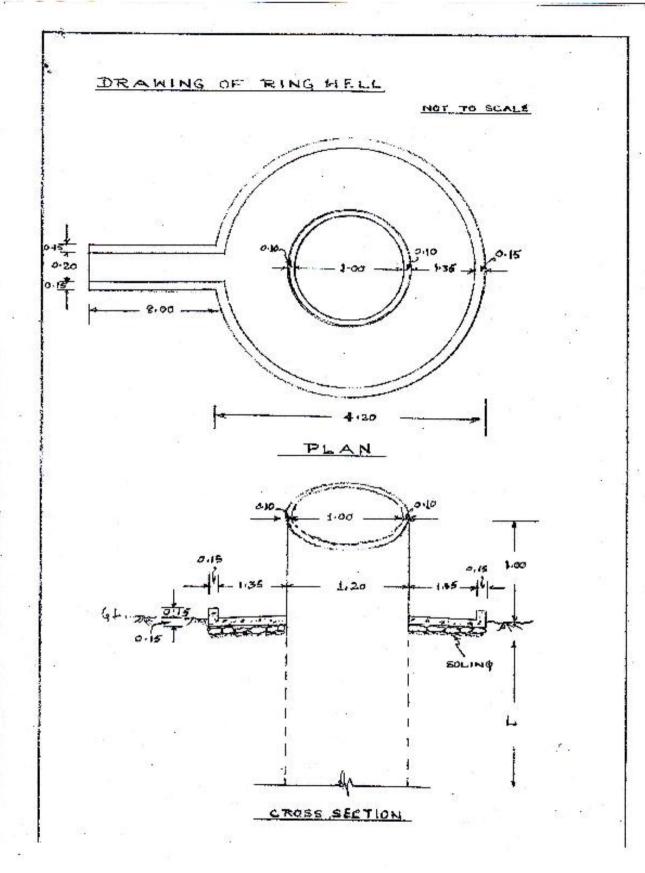
(A) PCC G - M

-15

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

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: 2 x 4.00 x 0.50 x 0.80 = $3.96m^{3}$ T/wall: 1 x 4.60 x 6.00 x 0.45 Apron: 38.26m³

= 38.26m²

@ 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 : $1 \times 10.00 \times 0.90 \times 1.00 = 9.00 \text{m}^3$ $1 \times 10.00 \times 0.45 + 0.90 \times 1.80 = 12.15 \text{m}^3$

2

 $2 \times 2.00 \times 0.45 \times 0.75 = 1.35 \text{m}^3$

G/wall : $2 \times 4.60 \times 0.30 \times 0.80 = 2.21 \text{m}^3$

 $2 \times 5.45 \times 0.30 \times 2.55 = 8.33 \text{m}^3$

Less: $2 \times \frac{1}{2} \times 3.20 \times 0.30 \times 1.35 = (-) 1.30 \text{ m}^3$

W/wall: $2 \times 4.00 \times 0.30 \times 3.35 = 8.04 \text{m}^3$

T/wall: $1 \times 6.60 \times 0.40 \times 1.00 = 2.64 \text{m}^3$

Apron: $1 \times 6.15 \times 6.00 \times 0.15 = 5.54 \text{m}^3$

= 47.96m³

@ Rs. 4090/- m³ Rs. 196156.40

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

Apron: $1 \times 4.60 \times 6.00 \times 0.30 = 8.28 \text{m}^3$

 $1 \times 1 \times 1.80 \times 6.00 \times 1.80 = 9.72 \text{m}^3$

Less : $1 \times 1 \times 2 \times 0.45 \times 6.00 \times 1.80 = (-) \quad 2.43 \text{m}^3$

= 15.57m³

@ Rs. 2714/- m³ Rs. 42256.98

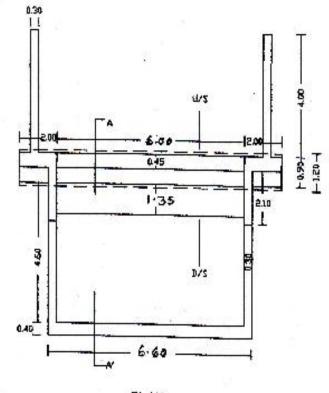
GRAND TOTAL = Rs. 250067.56

Say, Rs. 2,50,000.00

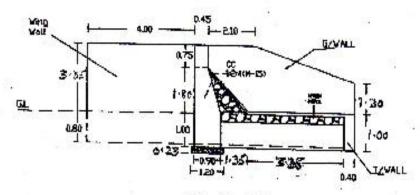
(Rupees Two lakh fifty thousand) only.

C. C. CHECK DAM

Not to Scale



PLAN



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

 $= 39.32 \text{m}^3$

@ 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 : $2 \times 8.00 \times 0.20 \times 1.15 = 3.68 \text{m}^3$

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

 $= 48.58 \text{m}^3$

@ Rs. 4090/- m³ Rs. 198692.20

4/28. Construction of embankment.

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

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

 $= 270.00 \text{m}^3$

......... Rs. 19170.00 @ Rs. 71/- m³

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

on slope ...etc.

(I) Stone /boulders.

Dam U/S:

 $= 15.26 \text{m}^3$ 1 x 18.00 x 4.24 x 0.20

 $= 1.60 \text{m}^3$ L/Channel : 1 x 8.00 x 1.00 x 0.20

 $= 16.86 \text{m}^3$

@ Rs. 1086/- m³ Rs. 18309.96

6/37. Turfing with sods.

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

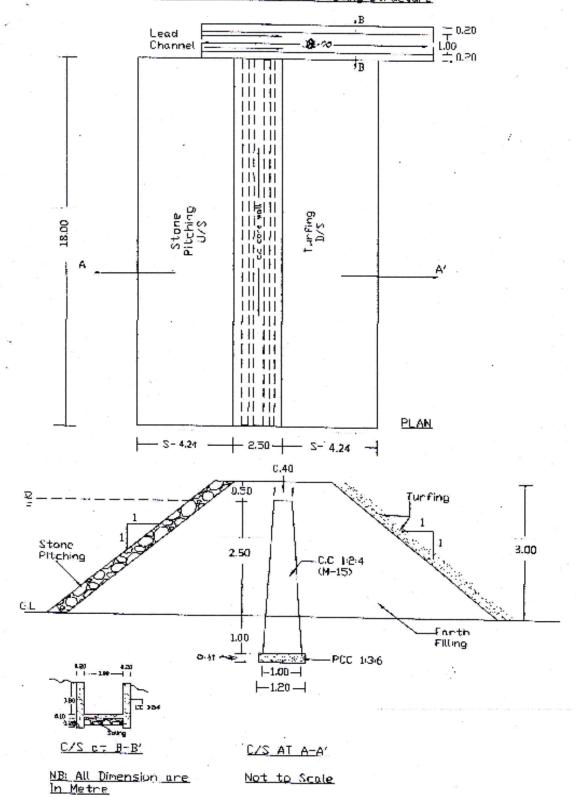
> > @ Rs. 46/- m² Rs. 3510.72

GRAND TOTAL = Rs. 250029.90

Say, Rs. 2,50,000.00

(Rupees Two lakh fifty thousand) only.

C.C Core Yall With Earthern Filled Bam Embankment) for Yater Harvesting Structure



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 :
$$\frac{D}{6}$$
 (26.00 x 24.00) + 4 (24.00 x 22.00) + (22.00 x 20.00)
= $\frac{2.00}{6}$ (624.00) + (2112.00) + (440.00)
= $\frac{2.00}{6}$ (3176.00)
= 1058.67m³

@ Rs. 47/- m³Rs. 49757.49

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

(A) Manual Means.

Length: 10.00 metres.

@ Rs. 25/- m³ Rs. 250.00

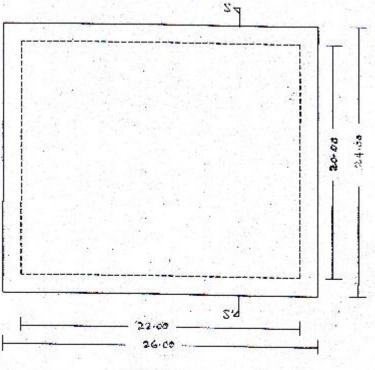
GRAND TOTAL = Rs. 50007.49

Say, Rs. 50,000.00

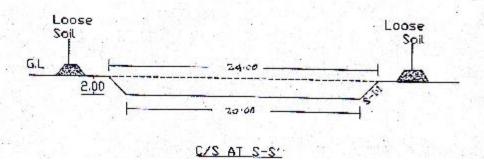
(Rupees Fifty thousand) only

DUG OUT POND

Not to Scale







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.

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

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

 $= 14.05 \text{m}^3$

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

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

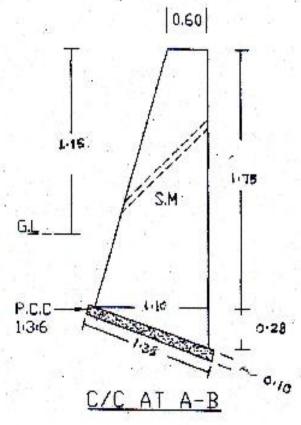
3/140(b). Stone masonry works in cement mortar 1:3 etc.

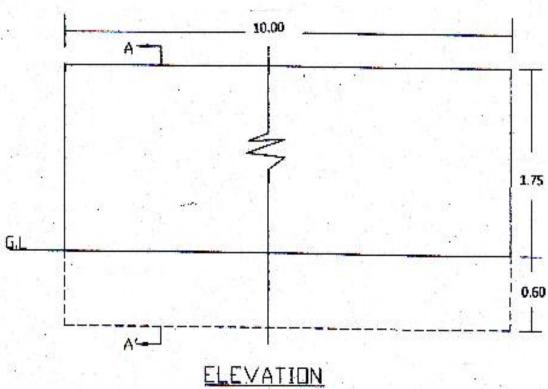
$$1 \times 10.00 \times 0.60 + 1.10 \times 1.75$$
 = 14.88m^3
 $1 \times 10.00 \times \% \times 1.10 \times 0.28$ = 1.54m^3
= 16.42m^3

GRAND TOTAL = Rs. 50045.08Say, Rs. 50,000.00

(Rupees Fifty thousand) only.

STONE MASONRY PROTECTION WALL





ANNEXURE IV MoA, Sub Committee Details

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



Phone: 03651-223835(O), 223826(R) Fax: 03651-223179, 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. Details of Convergence of IWMP with other Schemes: Name of Villages:

Watagre

	1	2	3		6	7			
			Names of	Fund made	Name of activity/task/structure undertaken with converged funds			Reference no.	Level at which
Sl. No.	District	Names of projects	Departments with Schemes converging with IWMP	available to IWMP due to convergence (Rs. in lakh)	(a) Structures (b)Livelihoods (C)Any other (pl specify)	Nos/Rmt/Ha	Amount(Rs)	of activity/ task/ structure in DPR [@]	decision for convergence was taken ^{\$}
					a)Dugout pond	11 Nos	550000		
					b)Stone masonry protection wall	12 Nos	600000		
	WGH	WGH-IWMP-VIII WGH-IWMP-VIII WGH-IWMP-VIII West Garo Hils, Meghalaya) Meghalaya) Meghalaya) 3273600 C) Water harvesting farm pond 4 Nos d) C.C Check cum Irrigation dam 2 Nos e) Earthen irrigation channel 852 Rmt f) Wet terrace 10 Ha g)Rubber Plantation 35	West Garo Hils,	3273600	harvesting	4 Nos	1000000	Enclosure of Abstract of Perspective Plan for Convergence of NREGs with	District Level
1					cum Irrigation	2 Nos	500000		
_					irrigation	852 Rmt	42600		
			150000						
					• ·	35	263000		
					h) Arecanut Plantation	35	168000		
				Grand Total			3273600		

Grand Total: Thirty two lakhs seventy three thousand and six hundred only.

ABSTRACT OF PERSPECTIVE PLAN FOR CONVERGENCE OF NREGS WITH IWMP AT WAJATAGRE VILLAGE UNDER WAJATA MICRO-WATERSHED, WGH-IWMP-VIII

Name of the Village: WATAGRE

Total No. of Job Card Holder: 52 Nos

Amount earmarked for Convergence per annum = Rs. 6,08,400/-) Total Wages Component (@Rs. 117/- per m/days= Rs. 6,08,400/-)

(Rupees Six lakhs eight thoudsand four hundred) only

		œ		7	6	თ	4	ယ	2	_		(!	<u>'n</u> Z	
GR			E)W	i) P			0.0		A. 2007000	Dug		6		
GRAND TOTAL	ii)Weeding@2,000/-per Ha	Arecanut plantation: i)Planting @2,400/- Ha	ii)Weeding@2,000/-per Ha	Rubber plantation: i)Planting @18,000/- per Ha	Wet terrace @ 15,000/- per Ha	Earthern irrigation channel @ 50/-per Rmt.	check cum irrig	Water harvesting farm pond@2,50,000/- per number	ne masonry Prote	Dug out pond @50,000/- per Number				
	er Ha	ਰ ਹ	er Ha	per Ha	0/- per Ha	annel @ 50/-pe	ation dam@ 2,5	n pond@2,50,(ection wall@ 50	00/- per Numbe	ACTIVITY			
						r Rmt.	C.C. check cum irrigation dam@ 2,50,000/- per number	100/- per number.	Stone masonry Protection wall@ 50,000/- per number	2				
	Ha	На	표	На	⊥ a	R _{mt}	Nos	Nos	Nos	Nos		(
	1	_	ı	ı	5.00	268	_	1	4	5		РНҮ	,	
6,08,400	1	1	1	J	75,000	13,400	1,50,000	ŀ	1,20,000	2,50,000	₩ages	FZ	2011-12	
1,80,000	I	-	1	J	Ţ	1	1,00,000	Ļ	80,000	t	material	Z		
	20	20	30	30	Οī	28	Ī	2	1	ï		PHY		
6,08,400	40,000	48,000	60,000	54,000	75,000	1,400	Ţ	3,00,000	30,000	1	Wages	, 	2012-13	
2,20,000	_	Ī	-	ï	J	ı	Ī	2,00,000	20,000	1	Material	FIN	3	PROJECT P
	20	1	35	5	1	188	_	2	٦	ī		PHY		PERIOD
6,08,400	40,000	ı	70,000	9,000	ı	9,400	1,50,000	3,00,000	30,000	I.	Wages	FIN	2013-14	
6,08,400 3,20,000	1	I	_	-	ı	ì	1,00,000	3,00,000 2,00,000	20,000	ı	Material	Z	+2	
	20	Î	35	ı	-	368	ı	l.	6	တ		PHY		
6,08,400	40,000	_	70,000	-	1	18,400	1	1	1,80,000	3,00,000	Wages	F	2014-15	
6,08,400 1,20,000	_	Ĩ	=	-	_	I	ı	r :	1,20,000	l.	Material	FIN		
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24,33,600	1,20,000	48,000	2,00,000	63,000	1,50,000	42,600	3,00,000	6,00,000	3,60,000	5,50,000	Wages	7	⊺otal	
6,20,000	1	-	-	Ī	Ī	Ť	2,00,000	4,00,000	2,40,000	ï	Waterial	FIN		
20,800	1026	410	1709	539	1282	364	2564	5128	3077	4701		Generated	Mandays to be	

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

2 Material Components: 1 Wages Component:

Grand Total

= Rs. 8,40,000.00 = Rs. 24,33,600.00

= Rs. 32,73,600.00

Grand Total (Rupees Thirty two lakhs seventy three thousand and six hundred only)

Wajatagre VEC

Selsella Block, WGH

Wineha C. & R.D. STOCK

Secretary, Wajadagre V.E.&.
Seisella.G., & R.D. Block
Westlaggrechills Megn

AGREEMENT FOR CONVERGENCE OF SCHEME

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

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

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

Wajadago VE.S. Wasalia C. & R.D Gibell Washing Work

Village Employment Council Wajatagiri Selsella Block, W.G.H Secretary,
Wajadagre V.E.S.
Selsella C & R.D. Block
West Garethlijfs Megn

Village Employment Council Wajatagiri Selasella Block, W.G.H

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

The A-king Nokma of Wajatagiri village under Wajata Micro-watershed project, WGH-IWMP-VIII has No Objection to the developmental activities to be undertaken in my A-king land by Soil & Water Conservation Department.

The villagers of Wajatagiri 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

Ge A. Sangma

Countersigned by

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