GOVERNMENT OF MEGHALAYA



DETAILED PROJECT REPORT

OF

SONGGITCHAK MICRO WATERSHED

UNDER

INTEGRATED WATERSHED MANAGEMENT PROGRAME

WGH IWMP – II 2009 – 2010



DEPARTMENT OF SOIL & WATER CONSERVATION

WEST GARO HILLS, MEGHALAYA

DADENGGRE C&RD BLOCK

SUMMARY

Name of the Sate	:	Meghalaya
Name of the District	:	West Garo Hills
Name of the C&RD Block	:	Dadenggre
Name of the Villages	:	Songmaranggre
Name of the Project	:	IWMP-II
Total Geographical Area	:	1041.2 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 Songgitchak (IWMP) Project is located in Dadenggre C&RD Block, West Garo Hills District of Meghalaya. Consisting of a single micro-watershed, the project area is drained by the Songgitchak Stream and its tributaries flowing in a north to south direction. The total area is 1041.2Ha. with 500 Ha to be treated under the Integrated Watershed Management Programme (IWMP).The Project area is located at a distance of about 61Km from Tura, the District Headquater. The area comprises of single village namely- Songmaranggre

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 1041.2 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 Songgitchak 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

BASIC INFORMATION OF THE PROJECT AREA

CHAPTER II

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 61 km from Tura the District Headquarter . The geographical location is between 90°11'00"E to 90°14'00" Longitude and 25°45'00"N to 25°49'00"N Latitude. There is only one village within the Watershed – Songmaranggre

2.2 Physiography:

The physiography of the micro-watershed is highly undulating. The altitude ranges from a minimum of 100 m to a high of 210 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 25%, and can reach up to 50%

Elevation (metres)	Slope Range (%)	Order of watershed Sub/Micro-watershed	Major streams	Topography
100 - 210	1 - 50%	3 rd Order Micro W/S	Songgitchak Rengotnang Prap CheranChiga	Flat and Gentle Slopes

2.3 Drainage:

The major stream draining the micro-watershed is the Songgitchak which is a 3rd order stream flowing in a north-south direction.

2.4 Soil:

Soil in general is moderately deep with 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 exists. The watershed area faced moderate erosion problem.

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:							
		eghalaya Garo Hills	IWMP-	a	Sheet		NA	NA
				b	Rill	500	NA	NA
1	Meghalaya			С	Gully		NA	NA
				Sub total		500		
				Wind erosion		Nil	Nil	Nil

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

2.5 Climate:

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

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

1	2	3	4	5	6	7		8	9																						
S1.	Name of	Name of the	Area	A #20	A #20	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Names of	Names of	Major soil types		Average annual rainfall	Major cr	ops
No.	State	Agro		the districts	the Projects		a) Type	b) Area (ha)	in mm (preceding 5 years' average)	a) Name	b) Area (ha)																				
									Rice	41.00																					
									Maize	10.00																					
1	Meghala	Hot, moistur	500	West Garo	WGH	Loamy Clayey	500	3600mm	Ginger	22.00																					
	ya	e		Hills	IWMP-II	5 5 5			Vegetables	6.00																					

2.5 Agriculture:

The Project village has about 79.20Ha of land under permanent cultivation system. Crops are cultivated under rain fed condition and thus offer only single cropping. Thus the village hardly produce market surplus of agriculture crops though market is available. The major crop includes paddy with total production of about 950.40 quintals per annum. Maize is cultivated in about 10Ha of agriculture land with total production of 240 quintals annually

Table 2.4: Crop yield and production

Crops	Area (ha)	Average Yield (Qtl) per ha.	Total Production (Qtl.)
Rice	41.00	23.18	950.40
Maize	10.00	15	150.00
Ginger	22.00	40	880.00
Vegetables	6.00	25	150.00

2.6 Natural Vegetation:

The project area has about 408.80Ha of degraded forest which comprises only 39% of the total watershed area. Various biotic factors i.e. deforestation for commercial use and horticulture activities have destroyed the rich biodiversity and left scrub vegetation in most of the area . The dominant species in the area includes Albizzia spp, Schima wallichii, Emblica officianalis, Bombax cieba and bamboo spp.

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.

Demographic Status: The total households in the watershed project is 56 with a total population of 252.

1. Songmarangre

Infrastructure facilities :

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

56 Nos

- 2.1.2 *School:* there are only one 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 Rondupara at a distance of 4 km.
- 2.1.5 Water Supply :There is no drinking water supply from P.H.E but there are three open ringwells provided by C & RD Block. However, during lean season the entire population have to depend on springs available in the area as the water from ringwell is not sufficient to meet the daily requirement.
- 2.1.6 *Market* : There is no any market under this project area but the people of this area sell their products at Rondupara weekly market which is 4 km away from the watershed area.

Table 2.5: Infrastructure Status.

1	2		3		4	1	
Name of District	Name of Project		Parameters:	Status			
WGH	IWMP- II	(i)	Whether connected to the main road by an all weather road		Ν	IL	
		(ii)	No. of households without electricity		5	6	
		(iii)	No. of households without access to drinking water		2	0	
		(iv)	No. of educational institutions:	(P)	(S)	(HS)	(VI)
			Primary (P)/ Secondary (S)/ Higher Secondary (HS)/ Vocational institution (VI)	1	NIL	NIL	NIL
		(v)	Distance of project village from nearest Primary Health Centre	14 km			
		(vi)	Distance of project village from nearest Veterinary Dispensary		13 km		
		(vii)	Distance of project village from nearest Post Office	14 km			
		(viii)	Distance of project village from nearest Banks		14	km	
		(ix)	Distance of project village from nearest Markets/ mandis		41	ĸm	
		(x)	Distance of project village from nearest Agro-Industries		N	IL	
		(xi)	Total quantity of surplus milk		N	IL	
		(xii)	No. of milk collection centres	(U)	(S)	(PA)) (O)
			(e.g. Union (U)/ Society (S)/ Private agency (PA)/ Others (O))	NIL NIL NIL NI			NIL
		(xiii)	No. of villages with access to Aganwadi Centres	1			
		(xiv)	No. of worship place	1			
		(xv)	No. of Community Hall		N	IL	
		(xvi)	No. of water tanks/Ringwell/Spring chamber		3		

2.8 Livestock:

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

Type of AnimalPopulationPiggery72Poultry633Cattle218Goattery17

Table 2.6: Existing livestock population

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.

1	2	3	4	5	6			
Name of	Name of the	Tunos of Formor	No. of	No. of BPL	L	and holding (ha)		
Distric t	Project	Types of Farmer	household s ds		Irrigated	Rainfed	Total	
		(i) Large(>5 Ha)	-	-	-	-	-	
		(ii) Small(1-5 Ha)	-	-	-	-	-	
WGH	IWMP-II	(iii) Marginal(<1 Ha)	56	-	-	79.2	79.2	
		(iv) Landless	-	-	-	-	-	
		Sub - Total	56	-	-	79.2	79.2	

Table 2.7: Land Holding:

Table 2.5: Common Property Resources in the Project Area

1	2	3			4		5			
Name of	Name of the	CPR	A	Total A Area owned/ I	area (ha) n posses	sion of	Ar	ea available	for treat	ment (ha)
Distric t	Projects	Particulars	Pvt. Perso n	Govt. (specify deptt.)	PRI	Any other (Communi ty)	Pvt. Person	Govt. (specify deptt.)	PRI	Any other (Community)
		(i) Wasteland/ degraded land	-	-	-	4089.50	-	-	-	45
		(ii) Pastures	-	-	-	-	-	-	-	-
		(iii) Orchards	132.9 0	-	-	-	-	-	-	-
		(iv) Village woodlot	-	-	-	-	-	-	-	-
		(v) Forest	-	-	-	408.80	-	-	-	-
West	WGH	(vi) Village Ponds/	-	-	-	-	104	-	-	-
Garo Hills	IWMP- II	(vii) Community Buildings	-	-	-	1.00	-	-	-	-
		(viii) Weekly Markets	-	-	-	Rondupara	-	-	-	-
		(ix) Horticulture	-	-	-	-	-	-	-	150
		(x) Temples/ Places of worship	-	-	-	1.00	-	-	-	-
		(xi) Jhum Cultivation	4.50	-	-	-	-	-	-	-
		(xii)Permanent Cultivation	79.20	-	-	-	16	-	-	185
		(xiii) Habitation	7.30	-	-	-	-	-	-	-
	Total		223.9	-	-	817.30	120	-	-	380

2.10 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.

		Total=	=1041.2 Ha
f)	Jhum Cultivation	=	4.50 Ha
e)	Habitation	=	7.30 Ha
d)	Wastelands-barren Rocky/Stony waste	=	408.80 Ha
c)	Forest	=	408.50 Ha
b)	Orchards	=	132.90 Ha
a)	Permanent Cultivation	=	79.20 Ha

2.11 Problems of the Area : The primary problems of the area is jhumming. Majority of the population depends on Jhum Cultivation for their livelihood. Vast tracks of abandoned Jhum areas are converted to Broomstick cultivation areas which has further degraded the capability of the land. Mention may also be made here that the land use categorized as Tree-clad Area-open in the land used land cover map generated using Satellite Images of 2005 – 2006 are actually Broom-stick cultivation areas. In other words, unscientific method of cultivation has not only reduced the Jhum cycle, low crop yield but had adversely affected the ecological balance within the area. Road communication is another infrastructural problems that the area is facing where large volume crops like pineapple, jackfruits etc do not find their way into the market which has resulted in poor socio-economic status of the people. However, to control or to overcome the said problems an innovative approach has been formulated and documented in the Action Plan or the Treatment Plan the Detailed Project Report. The method of identification of the problems is through the Participatory Rural Appraisal Exercises conducted in all the villages within the Watershed.

CHAPTER III

PROJECT PLANNING & INSTITUTION BUILDING

CHAPTER III

PROJECT PLANNING & INSTITUTION BUILDING

3.1 Scientific Planning

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

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
А.	Planning	
	Cluster approach	3
	Whether technical back-stopping for the project has been arranged? If yes, mention the name of the	Yes,i)NESAC, Nongsder
	Institute.	ii)SLNA GIS Lab, Shillong
	Baseline survey	YES
	Hydro-geological survey	NO
	Contour mapping	NO
	Participatory Net Planning (PNP)	NO

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
B.	Inputs	
	1. Bio-pesticides	NO
	2. Organic manures	YES
	3. Vermi-compost	NO
	4. Bio-fertilizer	YES
	5. Water saving devices	YES
	6. Mechanized tools/ implements	NO
	7. Bio-fencing	YES
	8. Nutrient budgeting	YES
	9. Automatic water level recorders & sediment samplers	NO
	Any other (please specify)	

3.2 Project Implementing Agency:

The PIA is the Soil & Water Conservation Territorial Division, Tura West Garo Hills District of Meghalaya. The Project Manager will be the Divisional Soil and Water Conservation Officer and will be assisted by an Asst. Soil & Water Conservation Officer along with WDT members in which expertise is drawn from the relevant fields for achieving smooth and successful implementation of the project.

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

2 3 5 12 15 18 4 6 7 8 9 10 11 13 14 16 17 LF Land-less UG SHG GP Any other Educa-Date of ST MF Names of Names of Names of Designa M/F SC SF Function/s the projects WCs Registration as a tion tional assigned# Society (dd/mm/ ualify-Districts уууу) cation W.G.H Μ ST W.G.H-Songgitc Under process. President Class A to I IWMP-II VIII hak Secretary Μ ST P.U A to I (Arts) ST Member 4 Class A to I Μ III – Member ST VIII 4 A to I F Member

Table 3.2: Details of Watershed Committees (WC):

- 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		al no. of reg	istered S	HGs	No.	of men	nbers			SC/S' catego	T in each ory		of BPL catego	
the Districts	projects	With only Men	With only Women	With both	Total	Categories	М	F	Total	М	F	Total	М	F	Total
	W.G.H-					(i) Landless	-	-	-	-	-	-	-	-	-
W.G.H	IWMP-			1 Nos	1 Nos	(ii) SF	5	5	10	5	5	10	NA	NA	NA
W.U.II	I W IVII - II			1 1105	1 1105	(iii) MF	-	I	-	-	-	-	-	-	-
	11					(iv) LF	-	I	-	-	-	-	-	-	

iii) User Group

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

1	2		3				4				5			6	
Names of Districts	Names of		Total no.	of Ugs		No. c	of mem	bers		No. o	f SC/S catego	T in each ory	No.	of BPL in category	
	Projects	Men	Women	Both	Total	Categories	М	F	Total	М	F	Total	М	F	Total
						(i)Landless									
WOU	W.G.H.					(ii) SF									
W.G.H	IWMP-II					(iii) MF									
						(iv) LF									
Total					NIL				NIL			NIL			NIL

Table 3.4: User Group Details

CHAPTER IV PROJECT ACTIVITIES

CHAPTER IV PROJECT ACTIVITIES

4.1 Preparatory Phase:

i) Entry Point Activities (EPA)

							(Fina	ancial – 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-II	3.00 Lakh	i)Construction of Spring Chamber. ii)Submersible causeweay/culvert. iii)Link road.	0.60 1.75 0.65	-	-	NA	Na

(Ein ancial Da in latch)

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- II	a) Rapport Building b) Community meeting c)Formation of	a) Project concept/roles and responsibility of W.C b) Concept/roles and responsibility of SHG and UG c) Concept/roles and responsibility of of WDT members d) Off-campus exposure trip to research Institutes/Estab lished farms etc.	a)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 establishing /maintaing forest reserves. c) Agreement for convergence of NREGS scheme with IWMP with VEC. 	a)Res ource invent ory works	Done	Entry Point Activity	1.50

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 Proj	ject					1	Prop	osed Proje	ect				
								A		tion/ repa		Con	struction	of new stru	ictures		Total	target	
S1 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 (m ³)	Estima ted cost
1				Dug out Pond	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				C.C Check cum Irrigation Dam	-	-	-	-	-	-	-	5	86	957	5.00	5	86	957	5.00
	Megh	W.G.	W.G.H IWMP- II	Water harvesting farm pond	-	-	-	-	-	-	-	2	84	976	2.00	2	84	976	2.00
	alaya	Η		Earthen Irrigation Channel	-	-	-	-	-	-	-	1360. 4 rmt	24	-	0.68	1360.4 rmt	24	-	0.68
				Stone masonery protection wall	-	-	-	-	-	-	-	3	75	992	3.60	3	75	992	3.60
			Total										269	2925	11.28		269	2925	11.28

						8					9	10
				Ac	chievement	due to proje	ct					
Aug		' repair of e actures	existing	C	Construction	of new struc	ctures	Т	otal achievem	ent	Change in storage capacity (col 8-6)	Change in irrigated area (ha) Col. (8-6)
No	Area irrigated (ha)	Storage capacity	Expenditur e incurred (in lakhs)	No	Area irrigated (ha)	Storage capacity	Expenditure incurred (in lakhs)	Area irrigated (ha)	Storage capacity	Estimated incurred		-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	5	86	957	5.00	86	957	5.00	957	90
-	-	-	-	2	84	976	2.00	84	976	2.00	976	135
-	-	-	-	1360.4 rmt 24 - 0.68 24 - 0.68								60
-	-	-	-	3	75	992	3.60	75	992	3.60	992	130

1	2	3	4	5		6		7											8				9
					Pre	-project			P	ropo	sed tar	get				Ι	Achiev	vemer	nt due to	o proje	ct		
S	o of	Name s of Distri	Names of project	structures	No.	Area irrigate	repa re	gmentat ir of exi echargin tructure	isting ng	nev	nstruct w recha structu	arging	Total	target	rep	igmentati air of exis recharging structures	sting g	new	nstructio v rechar structure	ging	To achiev	tal ement	Change in irrigated area (Col.
	States L	cts	project			d (ha)	No.	Area to be irrigat ed (ha)	Estim ated cost	No.	Area to be irrigat ed (ha)	ted cost	Area to be irrigat ed (ha)		No.	Area irrigated	Expe ndi- ture incur red	No	Area irri- gated (ha)	Expe ndi- ture incur red	Area irri- gated (ha)	Expen di-ture incurre d	8-6) (ha)
				(i)Dug out Pond	0				0	9	20	3.60	20	3.60	0		0	9		3.60	20	3.60	0
1	Meghal		WGH			NIL		NIL								NIL			NIL				
	aya	Garo Hills	IWMP -II																				
				Total for the project							20	3.60											

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

4.2.3 Activities executed by User Groups in the Project Areas.

	2				3			
			Major activities of	of the UGs –Tai	gets			
Names of	Names of		Structure/ ac	tivity proposed		No. of UGs	Estimated	Amount of WDF to be
Districts	Projects	Sl. No.	Туре	No.#	Treatment (ha)	involved	Cost	collected (Rs.)
		1.	C.C Check-cum irrigation dam	5 Nos	86 Ha	2	5.00	0.25
		2	Stone masonry Protection Wall	3Nos	75 Ha	2	1.50	0.075
W.G.H	W.G.H IWMP-II	3	Earthen Irrigation Channel	1360.4 rmt	24 Ha	1	0.68	0.034
			Total		185 Ha	5	6.18	0.359

4.2.4 Activities executed by User Groups in the Project Areas:

				4											
	Major activities of the UGs – Achievements														
	Structure/ activity No. of UGs involved Expenditure incurred No. of mandays Amount of WDF collected														
Sl. No.	Туре	No.#	Treated Area (ha.)	No. of UGS involved	(Rs.)	SC	ST	F	(Rs.)						
	C.C Check-cum irrigation dam	5 Nos	86 Ha	2	5.00		1200	800	0.25						
	Stone masonry Protection Wall	3Nos	75 Ha	2	1.50		360	240	0.075						
	Earthen Irrigation Channel	1360.4 rmt	24 Ha	1	0.68		408	272	0.034						
	Total		185 Ha	5	6.18		1968	1312	0.359						

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

1	2		3	
			Major activities of the SHC	Js
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
West Garo Hills	W.G.H IWMP-II	Poultry	3	0.40
	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 (Amout	eceived by the nt in Rs.)	e SHG		Fotal annual Income	Total annual	No. of S	SHGs	Graded as	Total Amount of	No. of SHGs
given training	Loan from revolving fund	Training	Material	income generating activities	Amount	generated (Rs.)	Savings (Rs.)	Ι	Π	III	loan sanctioned by the bank(s)	federated
	NIL	1.60	NIL	Piggery	2.00	1.30	0.60					
				Poultry	1.05	0.80	0.40					

4.2.7 Other activities of watershed works phase:

																				12		13
1	2	3		4		5		6		7		8			9	10)	1	1			
District	Names of projects	Ridge a treatm		Drainage treatme		Nursery r	raising	Land deve	elopment	Cro demons ns	tratio	Horticul Cash (Develoj	Crop		rinary vices	Fish develoj	ery pment	No conver ene	on- ntional rgy	Any other specii	(please fy)	Total cost incurred (Rs. In lakhs)
		(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	
		•\T	(Rs)	<u>``</u>	(Rs)		(Rs)	•\ XX	(Rs)						(Rs)	E' 1	(Rs)					
W G H	W.G.H IWMP- II	i)Impro vement of degrade d forest(4 5 Ha)	1.62	 i)check dam. ii)protec tion wall. iii)farm pond. iv)dug out pond. v)Chann el. 	5.00 1.50 2.00 10.0 0	-	-	i)Wet Terrac e(16H a)	2.40	-	-	i)Rubb er plantat ion(10 0 Ha) ii)Are canut plantat ion (50 Ha)	15.0 0 5.70	i)pig gery ii)po ultry	2.00	Fisher y-cum- pigger y(30un it)	0.30	-	-	i)Kitch en Garden (40unit) ii)Tailo ring iii)Carp entry	6.00 0.80 0.70	
	Total		1.62		19.1 8				2.40				20.7 0		3.05		0.30				7.50	54.75

4.2.8 Details of engineering structures in watershed works:

1	2	3		4			5		6				7						8	
			Тур	e of treatm	ent]	Type of I	land	Executing agency			Та	rget	_				Acł	nievement	
District	Project	Name of structures	(i) Ridge area (R)	(ii) Drainage line (D)	(iii) Land Dev. (L)	(i) Pri- vate	(ii) Com- munity	(iii) Others (pl. specify)	(i) UG (ii)SHG (iii) Others (pl. specify)	No. of units (No./ cum./ rmt)	Estii	mated co lakł	ost (Rs. in 1)		(No./ cu.m./	Rs	pendi ncurre . in la	ture ed akh)	Status of comple-tion	Actual month & year of completior (mm/yyyy)
											М	W	О Т			Μ	WO	T		
		Dug out Pond							UCAUC	25.11		10.00	10.00	N 10014						
		Check Dam		N V		V	V		UG/WC UG/WC	25 Nos		10.00	10.00	March2014 march						
		Check Dam		N			N		UG/WC	5 INOS	5.00	2.00	5.00	2013						
		Wet Terrace			V				UG/WC	16 Nos		2.40	2.40	March2014						
W.G.H	W.G.H IWMP-II	Stone masonry Protection Wall							UG/WC	3 Nos	0.90	0.60	1.50	March2012						
		Earthen irrigation Channel		\checkmark			V		UG/WC	1360.4 rmt		0.68	0.68	March2013						
		Water Harvesting farm pond				V			UG/WC	2 Nos	1.20	0.80	2.00	March2012						
		Total									5.10	16.48	21.58							

4.2.9 Details of engineering structures in watershed works.

							9										
							Outcomes										
		Water le	evel (m)		uction intal)	Income	e (Rs.)		М	andays g	generated			N	o. of benefi	ciaries	
Reduction in run off (cu.m)	Area treated#			(1-													
Tun on (cu.iii)	(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 (15 Qtls)	Paddy (30 Qtls)	20,000	30,000		11100		7400	18500		56		20	76
				Maize (42 Qlts)		30,000	50,000										

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

1	2	3		4			5		6			7				8	
			Тур	e of treati	ment	Т	ype of I	land	Executing agency		- -	Farget				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	45 Ha	4500	1.62	31/3/2013				
WG	IW	Rubber Plantation	R			Р			Farmers	100 Ha	45,000	4.40	31/3/2013				
H	MP -II	Arecanut	R			Р			Farmers	50 Ha	60,000	5.7	31/3/2013				

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	of activitie off SC ST Others Women Total SC ST Others Women														Total
S		Pre-project	Post project	Pre- project	Post project		51	Oulers	women	Total	50	51	Others	women	Total
Improvem ent of degraded	NA	0					648		432	1080		56		4	60
Rubber Plantatio n	NA	0	300	0	3000000		5400		3600	9000		56		36	92
Arecanut	NA	1993.5	2731.5	159480 0	2185200		2052		1368	3420		56		14	70
Total				159480 0	5185200		8100		5400	13500		168		54	222

4.2.12 Details of allied / other activities:

1	2	3		4		5		6	7	7
				Type of	land	Executing agency		Target	Achiev	vement
District	Project	Name of activity@	(i) Privat e	(ii) Communit y	(iii) Others (landless)	(i) UG (ii)SHG (iii) Others (pl. specify)	Estimated cost (Rs. in lakh)	Expected month & year of completion (mm/yyyy)	Expendi-ture incurred (Rs. in lakh)	Actual month & year of completion (mm/yyyy)
		Kitchen gardening	\checkmark		Individual	Private	3.50	31/3/2014		
		Tailoring			SHG	SHG/UG	0.80	31/3/2014		
		Piggery			Individual	SHG/UG	1.50	31/3/2012		
		Carpentry	\checkmark		SHG	SHG/UG	0.70	31/3/2014		
		Poultry			SHG	SHG/UG	1.50	31/3/2013		
West Garo	W.G.H	Fingerlings			SHG	Private	1.50	31/3/2013		
Hills	IWMP-II									
		Total					9.50			

(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	S					
	Income (Rs	.)			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	2000-3000	15000- 20000		216 0		1440	3600	nil	40	nil		40
Tailoring	Nil	20000- 25000		360		240	600	nil	nil	nil	20	10
Piggery	Nil	20000- 30000		720		480	1200	nil	nil	nil	20	20
Carpentry	Nil	15000- 20000		300		nil	300	nil	10	nil		10
Poultry	Nil	10000- 20000		540		360	900	nil	nil	nil	10	10
Fingerlings	Nil	10000- 20000		nil		nil	nil	nil	25	nil		25
	Total			408 0		2520	6600		75		50	90

4.3 Consolidation and withdrawal phase

Details of activities in the CPRs in the project areas:

1	2	3	4	5		1	6				7				
						Ta	rget			A	chievemen	t			
Names of the Districts	Names of projects	Name(s) of the	CPR particula rs	Activity proposed		Estimated expenditure	Expected no. of beneficia-	Estimated contri- bution to		e incurred	Actual no. of benefici-		lo. of inday	s	WDF collecte
					activity (ha)	(Rs.)	ries	WDF (Rs.)	activity (ha)	(Rs.)	aries	SC	ST	F	d (Rs.)
					-	-	-	-	-	-	-	-	-	-	-
					-	-	-	-	-	-	-	-	-	-	-
		Songmarangg	_	Reparing maintenance	-	1.75	-	(5%) 0.0875	-	-	-	-	-	-	0.0875
West Garo Hills	WGH IWMP- II	re		of CPRs	-	-	-	-	-	-	-	-	-	-	-
					-	-	-	-	-	-	-	-	-	-	-
		Total			-	1.75	-	0.0875	-	-	-	-	-	-	0.0875

CHAPTER V PROJECT PHASING & BUDGETING

CHAPTER V

PROJECT PHASING & BUDGETING

ACTION PLAN OF SONGGITCHAK WATERSHED UNDER IWMP TERRITORIAL DIVISION: TURA

Project Area: 500 Ha Name of C&RD Block:- DADENGGRE Sl. Activities Ist Year(6%) IV Year(25%) V Year(5%) No IInd Year(14%) IIIrd Year(50%) Total(in lakhs) Phy Fin Phy Phy Fin Phy Fin Phy Fin Fin Phy Fin 1 3 2 4 6 7 8 9 5 10 11 12 13 14 1 **MANAGEMENT COST:** Α Administrative Cost:-10% 3% 2% 5% 10% i Honourarium of WDT Members @ Rs.8000/- month-0.96 0.96 0.96 2.88 1 no. 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 0.60 0.20 0.990 0.10 Office expenses, POL, Stationeries, Printing of SHG's viii 0.174 1.044 0.528 1.746 books, pamphlets, tea, snacks ets, cost of camera. TOTAL OF A: 3% 2% 1.50 5% 3.75 0.528 10% 7.50 **PREPARATORY PHASE: 4%** В **Entry Point Activities:** 4% Construction of Spring Chamber/Ringwell i @Rs60,000/- each 1Nos. 0.6 1Nos. 0.6 Submersible causeweay/culvert @Rs.175000/-1.75 1Nos 1Nos 1.75 0.501 0.501 Link road @ Rs. 130000/- per km 0.65 0.65 km km **TOTAL OF B:** 3.00 3.00

Name of District :- West Garo Hills

No. of Villages: 1 nos

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	1	0.35		4	0.80
ii	Exposure visits - Off Campus			1	0.30			1	0.20		2	0.65
iii	Capacity building of SHG's/UG's.	1	0.20	3	0.60	1	0.20	1	0.20		6	1.20
iv	Capacity building of WC Members.	1	0.35	1	0.20	1	0.35				3	0.90
v	Capacity building of WDT/WV			1	0.20						1	0.20
	Total of C:		0.75		1.50		0.75		0.75			3.75
D	Detailed Project Report: 1%		1%									
i	Cost of Resources Inventories works		0.25									0.25
ii	Cost of PRA Exercises		0.10									0.10
iii	Cost of Land use Survey works		0.25									0.25
iv	Cost of formulating		0.15									0.15
	Total of D:		0.75									0.75
Е	Monitoring & Evaluatio: 2%											
i	Cost of Monitoring			0.2%	0.15	0.5%	0.375	0.3%	0.225		1%	0.75
ii	Cost of Evaluation			0.3%	0.225	0.5%	0.375	0.2%	0.15		1%	0.75
	Total of E:				0.375		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@15000/-16 Ha					11	1.65	5	0.75		16	2.400
ii	Rubber plantation (100 ha) pre-work@6,000/ha					80	4.80	20	1.20		100	6.000
	1st yr. planting @Rs.9,000/ha						7.2		1.8			9.000
iii	Arecanut plantation(50 Ha) pre-works @Rs.4,200/ ha					50	2.1				50	2.100
	1st yr. planting@ 7,200/ha						3.6					3.60
	TOTAL OF - A						19.35		3.75			23.100
В	Non-Arable Land treatment:											
	Improvement of degraded forest @3600/45 ha			0.70	0.0252	24.30	0.8748	20	0.72		45	1.62
	Total of B:				0.0252		0.8748		0.72			1.62

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 @1,00,000/ each -86 Ha			2	2.00	2	2.00	1	1.00			5	5.00
ii	Stone masonry protection wall @50,000/each - 75 ha			2	1.00	1	0.5					3	1.50
iii	Dug-out pond @40,000/-each -20ha			4	1.6	5	2					9	3.60
iv	Water harvesting farm pond @1,00,000/- each -84 ha			1	1.00	1	1.00					2	2.00
v	Earthern irrigation channel @Rs. 50 /- Rm. 24 ha					1050.4	0.5252	310	0.155			1360.4	0.68
	TOTAL-C				5.60		6.0252		1.16				12.78
	TOTAL OF A+B+C			7.5%	5.625	35%	26.25	7.5%	5.625			5%	37.50
D	Livelihood Activities for landless person: 10%												
i	Kitchen garden @1,5000/unit			5	0.75	11	1.65	24	3.6			40	6.000
ii	Tailoring @Rs.8000/-per unit					5	0.4	5	0.4			10	0.800
iii	Carpentry@Rs.5000/-per unit					4	0.2	10	0.5			14	0.700
	Total of D:			1%	0.75	3%	2.25	6%	4.50			10%	7.50
Ε	Production system and Micro Enterprises (SHG's) - 13%												
i	Piggery unit @Rs.40,000 /- per unit			1	0.4	2	0.80	2	0.80			5	2.00
ii	Poultry unit @Rs.35,000 /- per unit			1	0.35	1	0.35	1	0.35			3	1.05
iii	Dug-out pond @40,000/-each					6	2.4	10	4			16	6.40
iv	Supply of fingerlings @Rs.1000/-per unit					20	0.2	10	0.1			30	0.30
	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	Improving 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		31.25		15.375		3.75		57.500
	Grand Total (I+II)	6%	4.50	14%	10.50	50%	37.50	25%	18.75	5%	3.75	100%	75.00

1	2	3	4	5		5	7	8	9			10				11		
2	Name of State	Name of Distri	Names of Project	Year of sanct			Area of the project	Projec t cost (Rs. In	Names of Micro watersheds & Code nos. (as per DoLR's	А	area (ha) o	f the projec	ets			ea details within th	s (ha) e projects)	
(cts	S	ion	From	То	S	lakh)	unique codification)									
										Cultiv ated rainfed area	Cultiv ated irrigat ed area	Uncult waste		Pvt. Agri. Land	Fores t land	Com m unity land	Others (pl. specify)	Total area (ha)
												a) Tempor ary fallow	b) Per manent					
1	Meghalaya	West Garo Hills	W.G.H IWMP -II	2010	2010	31/3/ 2015	500	75	Songgitchak	186.91	0	434.06	-	79.2	50	309	61.8	500

Details of the types of areas covered under the IWMP Programm

Fund provision for the IWMP projects from all sources:

1	2	3	;					4						5
						Funds f	rom other s	ources in	n addition t	o IWMP	funds	1		
Distri ct	Name of Project s	IWMP	' Fund		rgence nds	Р	PP	Com	nmunity		utional ance		ers (Pl. ecify)	Total
		Centra l Share	State Share	of t OI l contrate		Financia l contri- bution	Name	Financia l contri- bution	Name	Financ ial contri- bution	Nam e	Financi al contri- bution		
Megh alaya	W.G.H IWMP -II	67.50	7.50	NREG S	13.31	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	88.13

1	2	3	4		5					6		
				Distt.	Agency's Proj	ect Account d	etails		Watershed Com	mittee (WC)	account details	:
SI. No.	Names of States	Name of Districts	Names of Projects	Name of the Bank and Branch where project account has been opened	Account Number (to be obtained confiden- tially)	Account type (Savings/ Current/ Others)	Name & Designatio n of authorized persons who operate the account.	Name of Watershed Committee	Name of the Bank and Branch where project account has been opened	Account number (to be obtained confiden- tially	Account type (Savings/ current others)	Name & Designation of authorized persons who operate the account.
1	Megha laya	W.G.H	W.G.H IWMP- II	Songgitchak Micro Watershed	310781309 39	Saving		Songgitcha k Micro Watershed	S.B.I Lower Chandmary	31078130 939	Saving	Chairman W.C Secretary W.C Project Leader/WD T

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

Public-Private Partnership in the IWMP projects: NIL

1	2	3		4			5	6	7	8	9
			Туре	e of agreement	signed		ncial bution				
	Name	Name of Private		oU b)Contract c) Any other (pl. specify)			1	Derte en lie	Francisca	A	
District	of project	Sector Partner Agency	a)MoU			IWMP	Private sector	Partnership Interventions	Expected Outcomes	Actual Outcomes	Comments
			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		
S. N o	Stat e	Name of the Trainin g Institut e	Full Address with contact no., website & e-mail	Name & Designa tion of the Head of Institute	Type of Institute [#]	Area(s) of specialization ^{\$}	Accre ditatio n details	Refer -ence Year	No. of training s assigne d	Performar No. of trainees to be trained	No. of trainings conducte d	No. of trainee s trained
1		NIRD (NER)	Guwahati	Director	Central Govt.	Remote Sensing, Rural Dept.	NA	-	-	-	-	-
2		SIRD	Nongsder	Director	State Govt.	Capacity Building	NA	-	-	-	-	-
3	aya	RRTC	Umran Meghalaya	Director	Don- Bosco	Agri-Horti, Animal Husbandry, Entrepreneurship	NA	-	-	-	-	-
4	Meghalaya	ICAR/ KVIC	Umiam/Tur a Meghalaya	Director	Central Govt.	Do	NA	-	-	-	-	-
5		MRDS	Shillong Meghalaya	Director	State Govt.	Animal Husbandry	NA	-	-	-	-	-
6		NEHU	Shillong/Tu ra 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 2010 - 11 as on 31/03/2010 (dd/mm/yyyy)*

1	2	3	4	5		6		7
Project	Total no.	No. of persons	No. of persons to be trained	No. of persons trained during		f funding for ining		s utilized akhs)
Stakeholders	of persons	trained so far	during current financial year	current financial year	a) DoLR	b) Any other (Pl. specify)	a) DoLR	b) Any other (Pl. specify)
PIAs	10	NIL	10	NIL				
WDTs	5	NIL	5	NIL				
Ugs	40	NIL	40	NIL				
SHGs	50	NIL	50					
WCs	11	NIL	11	NIL	(5%)3.75	NIL	(1%) 0.75	NIL
GPs	NIL	NIL	NIL	NIL	(370)3.73		(170) 0.75	
Community	280	NIL	150	NIL				
Others Pl. specify)								
TOTAL	396	0	266	0	(5%)3.75	0	(1%) 0.75	0

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

	1	2	3	4	5
	Activity	Executing agency	Estimated expenditure (Rs.)	Expenditure incurred (Rs.)	Outcome (may quantity, wherever possible)
1.	Resources Inventories Works	S&WC (T) Division	0.25	0.25	
2.	PRA Exercises	S&WC (T) Division	0.10	0.10	
3.	Land Use Survey Works	S&WC (T) Division	0.25	0.25	
4.	Cost of formulating	S&WC (T) Division	0.15	0.15	
		Total	0.75	0.75	

CHAPTER VII EXPECTED OUTCOME

CHAPTER VII EXPECTED OUTCOME

Table 7.1 Employment related outcomes:

						1	l							2		
Sl	Name of Village					Wage em	ploym	ent					Se	elf employi	ment	
No	rame or vinage		Ν	o. of mand	lays			No.	of benefic	ciaries			No.	of benefic	ciaries	
		SC	ST	Others	Women	Total	SC	ST	Others	Women	Total	SC	ST	Others	Women	Total
1.	Songmarengre		23280		15320	38600		166		110	276		30		20	50
	Total		23280		15320	38600		166		110	276		30		20	50

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 ma	d migration jor activities responsible (b) Livelihoods
				Ν	Ι	L				

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

Table 7.3 Economic benefits accrued to women:

]	l	2	2		3	4
Wa	iges	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)
15320	15.32	160	1.6	80	8.00	24.92

* 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	Period of		y details (1 milies)	no. of	User Charges (Rs.)
Districts	projects	vinages		Tight	rigit	SC	St	Others	Total	(KS.)
			Reserved forest	FW/MFP/ T	Unspecifie d		99		99	NIL
Meghalaya	W.G.H IWMP-II	Songmoronggro	Spring Chamber	Wd	Unspecifie d		35		35	NIL
		Songmarenggre	Check dam	Wi	Unspecifie d		40		40	NIL
			Irrigation Channel	Wi	Unspecifie d		40		40	NIL
		Total					214		214	

* From column no. 2, no. of States; from column no. 3, no. of Districts; from column no. 4, no. of projects; from column no. 5, no. of villages; from column nos. 9 & 10, particular-wise totals for the entire country may be given at the end of the table.

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

In column no. 7, only the letter assigned to each type, as given below, needs to be typed.

F	for right to	fishing [culture, harvest and sale]
Fw	for right to	collect firewood for domestic purposes
G	for right to	grazing for cattle and
MFP	for right to	collect and sell minor forest produces
Р	for right to	passage across the CPR
Rd	for right to	construct a road for access to individual property
S/M	for right to	collect and sell sand and minerals
Т	for right to	collect timber for construction of house
Wd	for right to	collect/ use water for drinking
Wi	for right to	use water for irrigation
0	for any right o	other than indicated above (please specify)

Table 7.5 Water related outcomes:

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	3	2.90	2.50	.50	Increase
Meghalaya	W.G.H IWMP-II	Bore Well	NA	NA	NA	NA	NA
	1 ** 1*17 -11	Other (specific) Spring	NA	NA	NA	NA	NA

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

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

Table 7.5.2 Status of Drinking water:

1	2		3			4		5
	Nome of the		ility of drink f monyhs in	0	Quality	y of drinkin	g water	
District	Name of the project	Pre- project	Post- project	Change in availability	Pre- project	Post- project	Change in quality	Comments
Meghalaya	WGH IWMP-II	10 months	12 months	2 months	Unsafe	Potable	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	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-II	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:

1	2	3				4						5						6		
					Pre-j	projec	et				Mi	d-term	l				Р	ost-pro	oject	
Names of the Districts	Name of Projects	Name of crops	Ar (h	rea a)	Aver Yie (Qtl) ha	per	Pro	Total duction Qtl)	Ar (h	rea a)	Yi per	erage ield r ha Qtl)	Prod	otal luction Qtl)	Ar (h		Yie per	rage eld ha tl)		roduction Qtl)
			Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.
		Paddy	0	79. 2	0	12	0	950.4	65	19. 2	15	15	975	288	95.2	-	-	-	-	-
		Maize	-	10	-	24	-	240	-	33	-	24	0	792	-	-	-	-	-	-
		Vegetable	-	5	-	30	-	150	6	5	36	30	216	150	-	-	-	-	-	-
W.G.H	WGH		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	IWMP-II		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Total	0	94. 2	0	66		1340. 4	71	57. 2	51	69	1191	1230	101. 2	38	561	69	1644	942

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

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

Irri. – Irrigated Rf – Rainfed

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

1	2	3	4	5			6							7					8	8		
							Pre-pi	roject					Mid	-term					Post-p	orojec	et	
SI No	Names of States	Names of the Districts	Name of Project s	Name of crops	Ar (h		Yi	rage eld) per a.	To Proc Q (Q	lucti n		rea la)	per	rage eld ha tl)	To Prod I (Q	uctio 1	Ar (h	rea a)	Aver Yie per (Q	eld ha	Tot Produc (Qt	ction
			5		Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf ·	Irri	Rf.
	Meghalay	West	WGH	Paddy	-	-	-	-	-	-	65	-	15	-	975	-	95.2	-	15	-	1428	-
	а	Garo Hills	IWMP- II	Vegeta bles	-	-	-	-	-	-	6	-	36	-	216	-	6	-	36	-	216	-
				Total	-	-	-	-	-	-	71	-	51	-	119 1	-	101. 2	-	51	-	1644	-

* 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	e-wise:
--------------------------------------------------------------------------------------------	---------

1	2	3	4	5			6						7	7					8			
						Pre-project						Mid-	term]	Post-p	rojec	t		
			Name				Ave	rage	То	tal			Ave	rage	Tot	tal			Aver	age	То	tal
Sl	Names of	Names	of	Name	Ar	ea	Yi	eld	Pro	duct	A	rea	Yie	eld	Prod	uctio	Ar	ea	Yie	ld	Prod	uctio
No	States	of the	Project	of	(h	a)	(Qtl)) per	io	n	(h	a)	per	ha	n	1	(ha	a)	per	ha	r	n
•	States	Districts	s	crops			h	a.	(Q	tl)			(Q	tl)	(Q	tl)			(Q	tl)	(Q	(tl)
			5		Irri	Rf.	Irri	Rf.	Irr	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
	0.																					
	а	Garo	IWMP-		nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	Nil
		Hills	II		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	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-II	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	
			Exist	ing area tree co	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-II	5 yrs	Land use survey conducted by the Department			45	45	45

* 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 area under horticulture (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-II	5 yrs	Land use survey conducted by the Department			150	150	150			

* 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	area under fo	dder (ha)	Achievement (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-II	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
				Pre-proj	ect		Mid-ter	m		Post-proj		
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-II	Cattle	210		16.80	210		16.80	270		21.60	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	130		2.60	
	Total for all projects		1573		23.90	1683		25.96	1960		33.50	
Total for all Districts												

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

1	2	3	4		5			6			7			8				
			Fund require	Sour	ces of fu	nding (F	Rs.)	Actual	No.	of b	eneficia	ries trai	ned	No.	No. of beneficiaries taking up activity			
	Project	Name of activity	d for the activity (Rs.)	Project Fund	Benefi -ciary	Other s (pl. specif y)	Total	Expenditur 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	-	6.00	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-
Hills	II	Tailoring	-	0.80	-	-	0.80	-	-	-	-	-	-	-	-	-	-	-
		Carpentry	-	0.70	-	-	0.70	-	-	-	-	-	-	-	-	-	-	-
		Total	-	7.50	-	-	7.50	-	-	-	-	-	-	-	-	-	-	-
								-	-	-	-	-	-	-	-	-	-	-

Table 7.7.2 Details of other livelihoods created for landless people:

(Contd.)

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

 Table 7.7.3 Details of other livelihoods created for landless people:

	9	10		11					
No. of persons employed indirectly in the activity				Impact of livelil	hoods programme				
		Annual increase in income due to	0	ration eneficiaries)	-	of backward- linkages	Any other information		
Total	Grand Total (8+9)	activity (Rs.)	Pre-project	Post-project	Pre-project	Post-project	(pl. Specify)		
-	-	-	-	-	-	-	-		

Table 7.7.4 Details of other livelihoods created for farmers:

1	2	3	4		1	5		6			7				8	
			Fund required	Source	Sources of funding (Rs.) in Lakhs			Actual Expenditure	No. of farmers traine			rained	No. of farmers taking up activity			
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		10			10	10			10
West Garo	WGH IWMP-II	Dug-out pond	6.40	6.40	NIL	NIL	6.40		18			18	18			18
Hills		Rubber Plantation	15.00	15.00	NIL	NIL	15.00		40			40	40			40
		Arecanut Plantation	5.70	5.70	NIL	NIL	5.70		30			30	30			30
		Tailoring	0.80	0.80	NIL	NIL	0.80		10			10	10			10
		Carpentry	0.70	0.70	NIL	NIL	0.70		10			10	10			10
		Total	31.00	31.00	0	0	31.00		118			118	118			118

* 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 pers	ons employed	A	Impact of livelihoods programme Migration Development				
indirectly in the activity		Annual increase in income due to	0	eneficiaries)	-	linkages	Any other information
Total	Grand Total (8+9)	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			
		(ii) Seed supply system			
		(iii) Fertilizer supply system			
		(iv) Pesticide supply system			
		(v) Credit institutions			
		(vi) Water supply			
		(vii) Extension services			
		(viii) Nurseries			
		(ix) Tools/machinery suppliers			
		(x) Price Support system			
WGH	IWMP-II	(xi) Labour			
		(xii) Any other (please specify)			Post-project
		(A) Forward linkages			
		(i) Harvesting/threshing machinery			
		(ii) Storage (including cold storage)			
		(iii) Road network			
		(iv) Transport facilities			
		(v) Markets / Mandis			
		(vi) Agro and other Industries			
		(vii) Milk and other collection centres			
		(viii) Labour			
		(ix) Any other (please specify)			

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

Table 7.9 Abstract of outcomes:

1	2	3	4	5	6	7
Sl. No.	State	Item	Unit	Pre-project Status	Post-project Status	Remarks
		Status of water table		Very Poor	Good	
		Ground water structures repaired/ rejuvenated		-	-	
		Quality of drinking water		Very Poor	Improved	
		Availability of drinking water		Very Poor	Sufficient	
		Increase in irrigation potential		Very Poor	4 nos	
		Change in cropping/ land use pattern		Very Poor	-	
	MEGHALAYA	Area under agricultural crop		Very Poor	-	
		i Area under single crop		Very Poor	Improved	
		ii Area under double crop		NIL	NIL	
		iii Area under multiple crop		NIL	NIL	
		Net increase in crop production area		-		
		Increase in area under vegetation		-		
		Increase in area under horticulture		-	70 ha	
		Increase in area under fuel & fodder		-	-	
		Increase in milk production		-	-	
		No. of SHGs		3	5	
		Increase in no. of livelihoods		-	6	
		Increase in income		-	NA	
		Migration		-	-	
		No. of school going children		220	250	
		SHG Federations formed		-	-	
		Credit linkage with banks		-		
		Resource use agreements		-	-	
		WDF collection & management		-	1	
		Summary of lessons learnt				

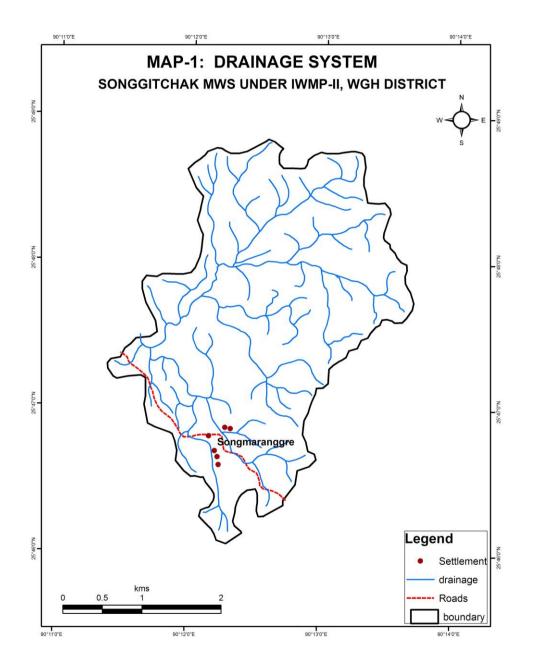
1	2	3	4	5	6	7	8	9	10
District	Name of project	Name of WC	Name of structure/ activity	Estimated cost (Rs.)	Expected quantifiable benefits (Rs.)	Expenditure incurred (Rs.)	Actual quantifiable benefit (Rs.)	Benefit: Cost ratio [#]	IRR
WGH	IWMP-II	Songgitchak	As per treatment plan	54.75	90.00	54.75	35.25	1.64	-

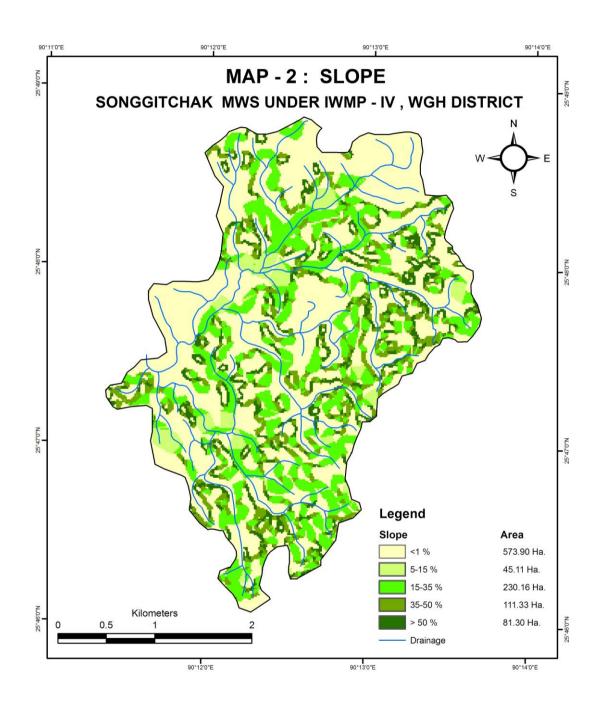
Table 7.10 Cost effectiveness of structures/ activities*

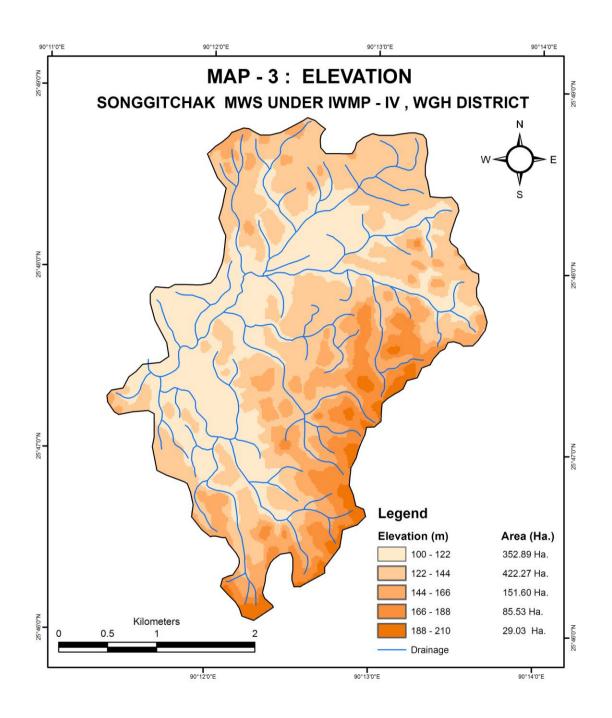
* from column no. 2, total no. of States implementing the programme, from column no. 3, total no. of Districts; from Column no. 4, no. of projects, from column no. 5, no. of WCs, from column no. 6, no. of structures/ activities, from column no. 7 to 10, category-wise# totals, may be mentioned at the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

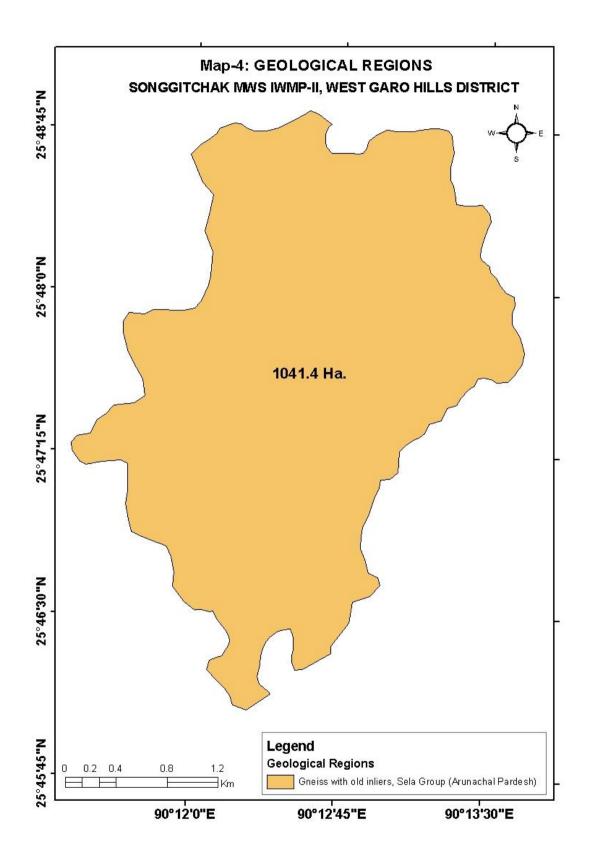
[#] B:C ratio more than 1 - cost effective less than 1 - Not cost effective

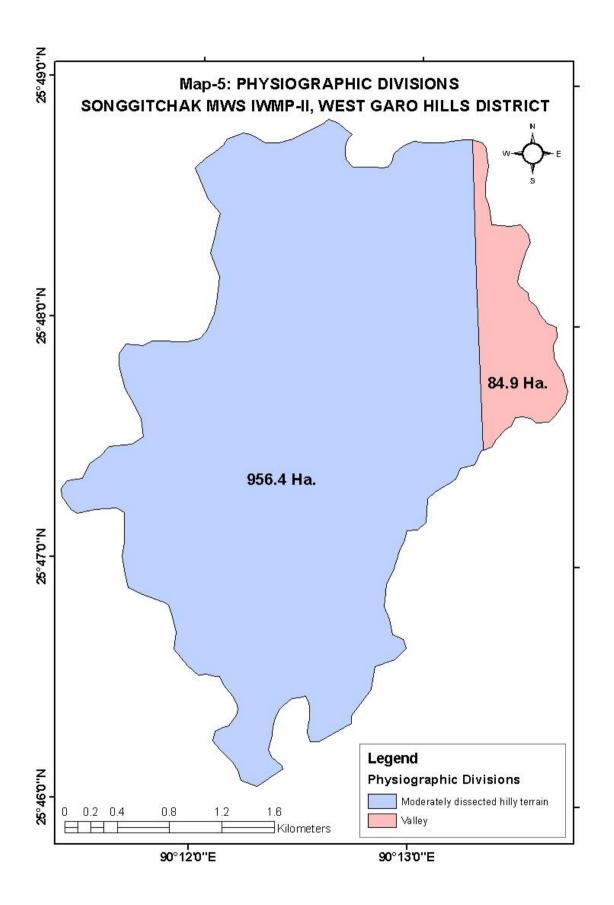
ANNEXTURE I MAPS

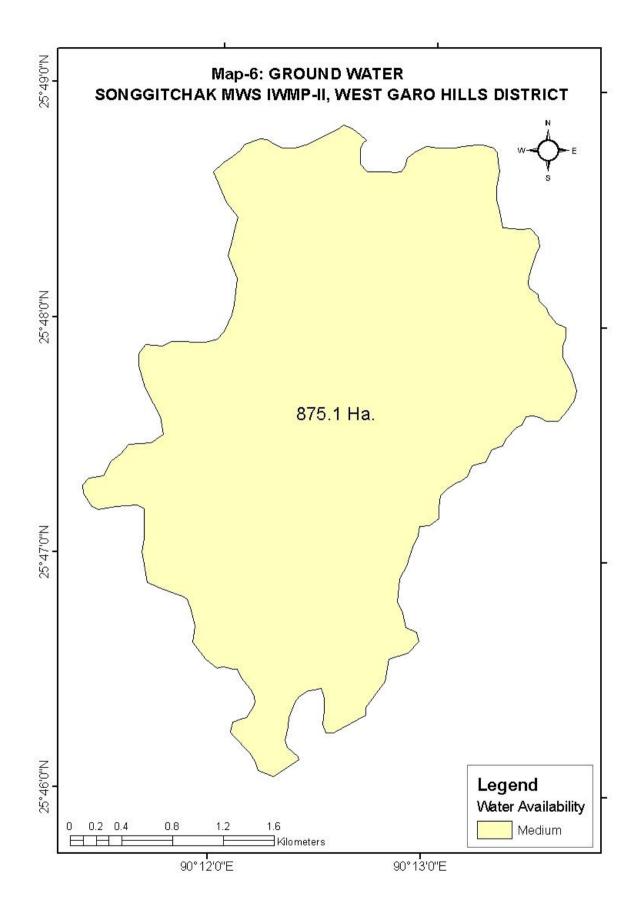


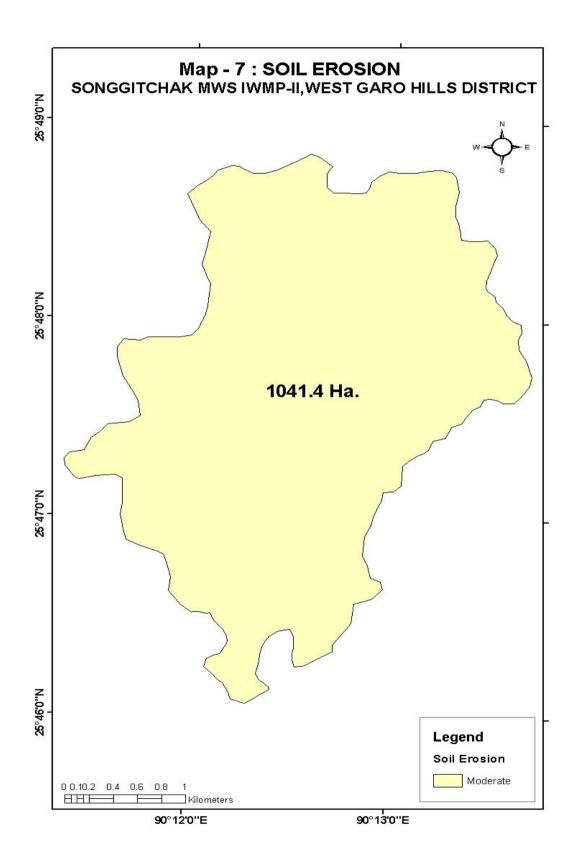


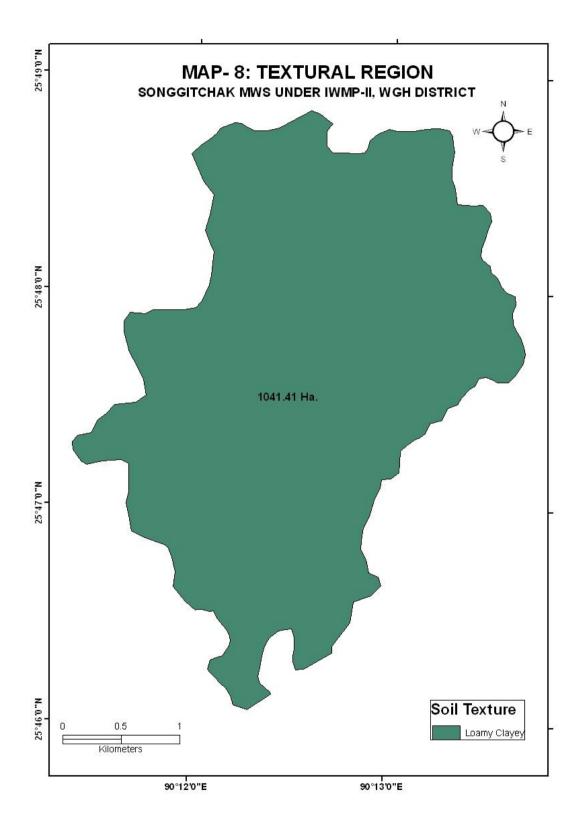


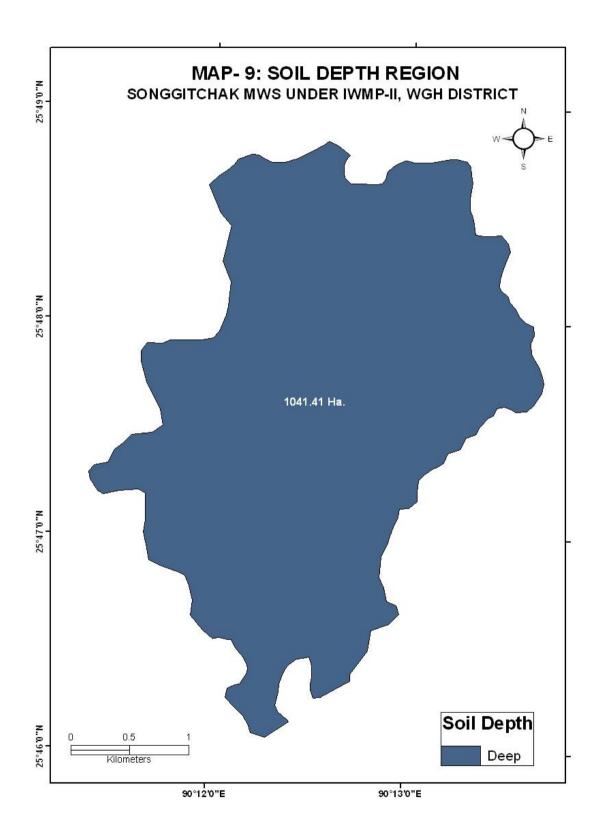


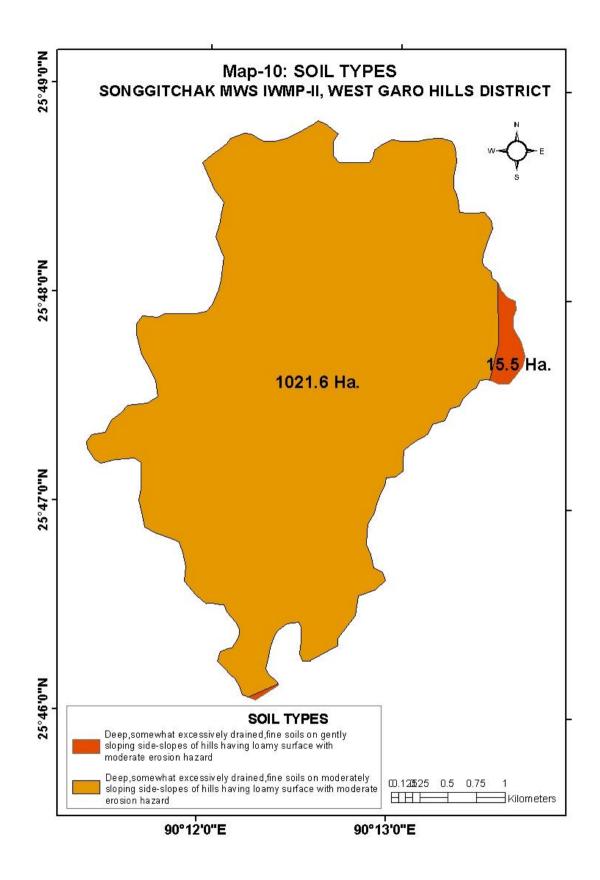


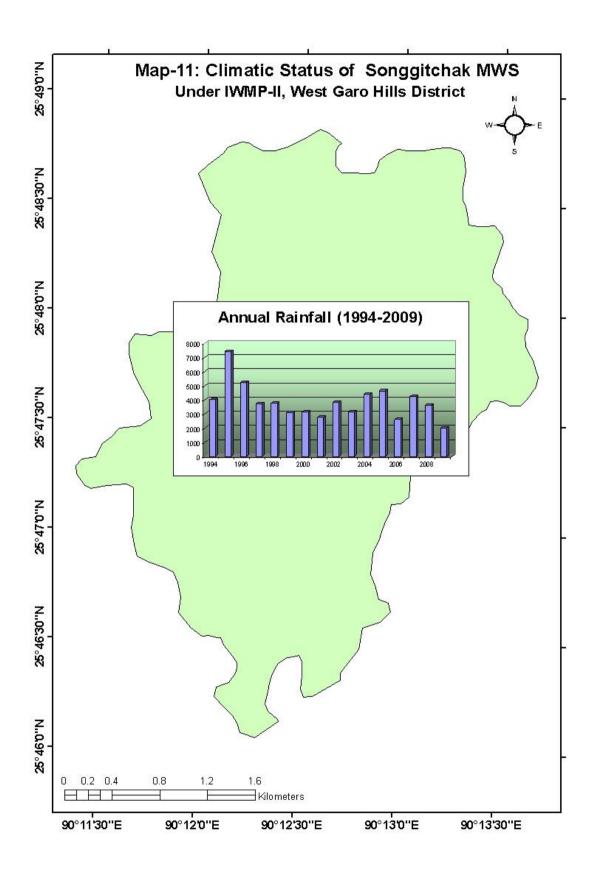


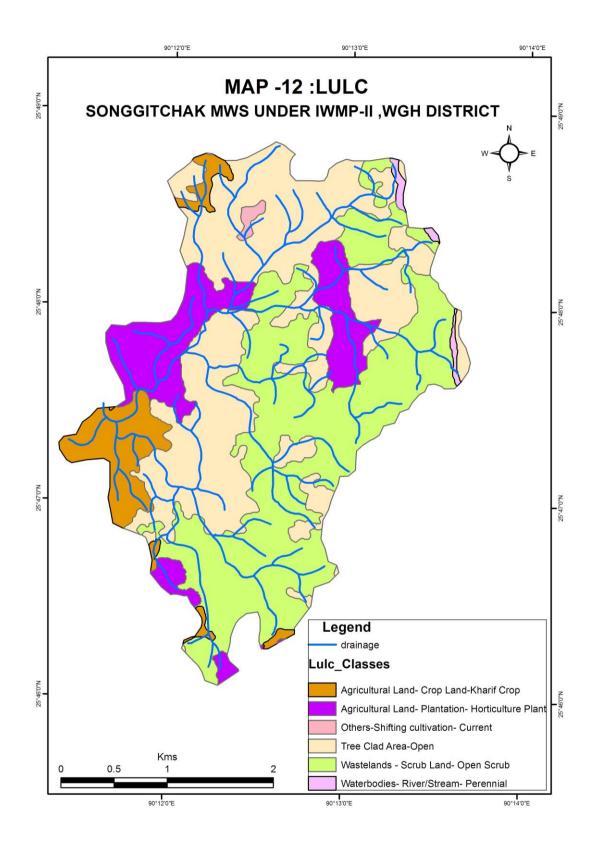


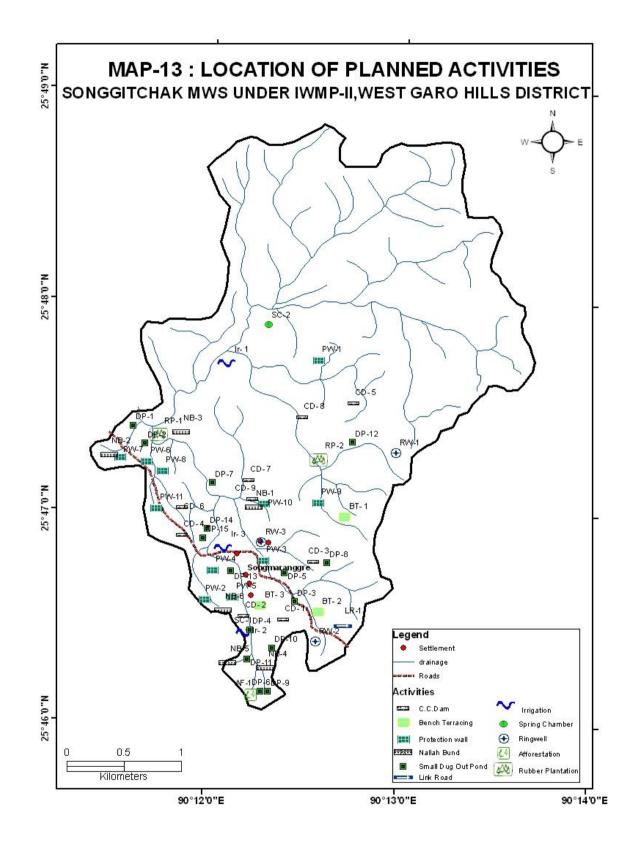












ANNEXTURE III COST ESTIMATES

MODEL NORM PER HECTARE FOR AGRO-HORTICULTURE WITH RUBBER PLANTATION (INTEGRATED WATERSHED MANAGEMENT PROGRAMME)

Spacing 6.06 m x 3.65 m Plant density 450 nos А Preliminary Works I. Site clearance 15 mandays @Rs. 100/- per manday 1500 Pit digging (pit size 0.75mx0.75mx0.75m) 450 nos II. @Rs. 10/- each 4500 Total: 6000 В First year Planting Cost of planting materials 450 nos @Rs. 20/-I. each 9000 Cost of planting 450 nos @Rs. 3/- each = Rs. 1350.00 (Contribution II. from the beneficiaries) III. Weeding two times 20 mandays @Rs. 100/- per manday = Rs. 2000/-(Contribution from the beneficiaries) Total: 9000 15000

Grand Total: (Rupees Fifteen thousand) only.

* The cost of norms in Arable Land for Rubber Plantation has been worked out keeping in mind the high demand for rubber planting by the farmers in the proposed projects, besides it is a high income generating crop which will help the people in the watershed project to improve their economic condition. The cost of norms has been worked at the minimum by taking into account the expected beneficiary contributions by way of plantings and weedings.

MODEL NORM PER HECTARE FOR AGRO-HORTICULTURE WITH ARECANUT PLANTATION (INTEGRATED WATERSHED MANAGEMENT PROGRAMME)

Spacing 3.5 m x 2.35 m Plant density 1200 nos А **Preliminary Works** I. Site clearance 6 mandays @Rs. 100/- per manday 600 Pit digging (pit size 0.45mx0.45mx0.45m) 1200 nos II. @Rs. 3/- each 3600 Total: 4200 В First year Planting I. Cost of arecanuts 1200 nos @Rs. 1/- each 7200 Cost of planting 1200 nos @Rs. 2/- each = Rs. 2400.00 (Contribution II. from the beneficiaries) III. Weeding two times 10 mandays @Rs. 100/- per manday = Rs. 2000 (Contribution from the beneficiaries) Total: 7200 11400

(Rupees Eleven Thousand Four Hundred) only.

* The cost of norms in Arable Land for Arecanut Plantation has been worked out keeping in mind the demand for Arecanut planting by the farmers in the proposed projects. The crop also has consistency in generating income which will help the people in the watershed project to improve their economic condition. The cost of norms has been worked at the minimum by taking into account the expected beneficiary contributions by way of plantings and weedings.

ESTIMATE FOR THE CONSTRUCTION OF C.C. IRRIGATION DAM WITH DISPOSAL CHANNEL ACROSS ______STREAM AT__

(Rates as per P.W.D. S.O.R. for roads, bridges and E & D works 2007-2008).

Excavation for structures (earth work in excavation of the 1/134. foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deterious matters, dressing of sides and bottom and back filling with approved materials.)

(I) Ordinary soil.

(A) Manual means.

(i) Upto 3 m, depth.

M/Dam:	1 x 8.00 x 1.40 x 1.05	= 11.76m ³
W/wall :	2 x 2.50 x 0.45 x 0.50	= 1.13m ³
G/wall :	2 x 3.00 x 0.30 x 0.50	$= 0.90 \text{m}^3$
T/wall:	1 x 6.00 x 0.45 x 0.60	= 1.62m ³
Apron :	1 x 6.00 x 3.00 x 0.35	= 6.30m ³
D/channel :	1 x 5.00 x 1.30 x 0.90	$= 5.85m^3$ = 27.56m ³

@ Rs. 34/- m³

.....

....

Rs. 937.04

2/103.

Providing and laying of dry rubble flooring complete as per drawing and technical specifications.

	@ Rs. 852/- m ³	
		= 6.87m ³
D/channel:	1 x 5.00 x 1.00 x 0.25	= 1.25m ³
Apron :	1 x 6.00 x 3.00 x 0.25	= 4.50m ³
M/Dam :	1 x 8.00 x 1.40 x 0.10	= 1.12m ³

Rs. 5853.24

3/137.		6 in foundation (plain cem in foundation etc).	ent concrete 1:3:6	
	M/Dam :	1 x 8.00 x 1.40 x 0.10	$= 1.12m^3$	
*		@ Rs. 3232/- m ³	······	Rs. 3619.84
4/141 .		nt concrete in open foundat g and technical specificatio Grade M15 :		
	M/Dam:	1 x 8.00 x 1.20 x 0.80 1 x 8.00 x <u>0.50 + 1.20</u> x 7	$= 7.68m^3$ 1.05 $= 7.14m^3$	
		2 x 1.00 x 0.50 x 0.50	$= 0.50 m^3$	
	W/wall:	2 x 2.50 x 0.30 x 2.05	= 3.08m ³	
	Deduct :	1 x 1.00 x 0.30 x 0.60	= (-)0.18m ³	
	G/wall :	2 x 3.00 x 0.25 x 0.95	= 1.43m ³	
	T/wall:	1 x 6.00 x 0.30 x 0.70	= 1.26m ³	
	Apron :	1 x 6.00 x 3.00 x 0.10	= 1.80m ³	
	D/channel :	2 x 5.00 x 0.15 x 0.98 1 x 5.00 x 1.00 x 0.10	= 1.47m ³ = 0.50m ³	
			$= 24.68 \text{m}^3$	
		@ Rs. 3630/- m ³		Rs. 89588.40
				1
		-	GRAND TOTAL =	Rs. 99998.52
			Say, Rs. 1,00,000.00	
			(Rupees One lakh) c	only.

ESTIMATE FOR THE CONSTRUCTION OF CAUSEWAY AT KEMRAGRE UNDER SIKSINGWIL MICRO WATERSHED (IWMP) 2009 AS PER PWD SCHEDULE OF RATE FOR ROADS, BRIDGES AND E& D WORKS FOR THE YEAR 2007-08

1) Site preparation including jungle clearance, removal of stumps, burning and clearing the debris, etc.,....L/S=Rs 4535 2/134[A(i)] Excavation for structures(earthwork in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material) Abutment=2x2.50x1.75x1.00=8.75 5 cum. @ Rs 34/ cum.....=Rs 297.5 =Rs 298 3/141(B) Plain cement concrete in open foundation complete as per drawing and technical specifications PCC Grade M 20 @Rs 4129/ cum.....=Rs 36129 3/141(B) Plain cement concrete in open foundation complete as per drawing and technical specifications PCC Grade M20 Causeway=2x9.00x2.50x0.40=18 cum. @ Rs 4129/ cum.....=Rs 74322 4/141.G(i). Plain cement concrete in open foundation complete as per drawing and technical specification. RCC Grade M 30 RCC slab=1x12.00x2.50x0.35=10.5 cum. @ Rs 4648/cum.....=Rs 48804

5/78 Plastering with cement mortar (1:4) ,15 mm thick on brickwork in substructure as per technical specification

Abutment=2x2.50x1.75x1.00=8.75 Causeway=2x9.00x2.50x0.40=18 Slab =1x12.00x2.50x0.35=10.5

Total = 37.25sqm

@ Rs 75/sqm.....=Rs 2793.75 =Rs 2794

> Total= Rs 1,62,347 1,66,882 (+) 5% contingency Rs 8117.35 Grand total =Rs 1,74,000.35 Say, Rs. 1,75,000.00

(Rupees one lakh seventy five thousand) only. $% \label{eq:relation}$

ESTIMATE FOR CONSTRUCTION OF DUGOUT POND AS PER SCHEDULE OF RATES FOR ROADS,BRIDGES AND E&D WORKS FOR THE YEAR 2007-2008

1/130(i). Excavation in soil for dugout farm pond by manual means with lead upto 50m

	Dugout Farm Pond Volume: $D/6 (AT) + 4(AM) + 2.5/6 (30.00 \times 15.0)$ = 11.00) = 2.5/6(450+1456+28) = 913.33	0) +4(28.00 x	13.00) + (26.	00 x		
	.@.Rs.34/- cum			Rs.	31053.22	-
6/37.	Furnishing and laying of the live so slope,verges or other locations sh fetching of sods and watering as p	own on the dr per technical s	awing includi pecification		ration of ground,	
	2	x 30 x	2.5		150	m²
	2	x 15 x	2.5		75	m² m²
	.@Rs.41.00/sq.m			-	225 9225	
				-	40278.22	
	Grand Total		Say	Rs.	40,000.00	

(Rupees Forty thousand)only.

ESTIMATE FOR CONSTRUCTION OF EARTHEN DISTRIBUTION CHANNEL AS PER SCHEDULE OF RATES FOR ROADS, BRIDGES AND E&D WORKS FOR THE YEAR 2007-2008

1/134. Excavation for structures (earthwork in excavation of the foundation of structures as per drawing and technical specification, including setting out, construction of showing and bracing, removal of stumps and deleterious matters, dressing of sides and bottom and backfilling with appropriate materials)

I.A(i) Ordinary soil									
Earthen Channel	1	x	1.00	х	1.10	x	1.35	1.49	m³
.@Rs.34/- cum							Rs.	50.49	
							Rs.	50.49	
Grand Total				5	Say		Rs.	50.00	

Cost per Running metre=(Rupees Fifty)only.

ESTIMATE FOR CONSTRUCTION OF EARTHEN EMBANKMENT AS PER SCHEDULE OF RATES FOR ROADS,BRIDGES AND E&D WORKS FOR THE YEAR 2007-2008

4/29. Construction of embankment with approved material obtained from borrow pits with a lift upto 1.50 m transporting to site, spreading, grading to required slope and compacting to meet requirement with a lead upto 1000 m as per technical specification.

Dam	1	х	1.00	х	2.20	х	1.2	2.64	m³
.@Rs.247/- cum							Rs.	652.08	

6/37. Furnishing and laying of the live sods of perrennial turf forming grass on embankment slope, verges or other locations shown on the drawing including preparation of ground, fetching of sods and watering as per technical specification
2 x 1.00 x 1.2 2.4 m²
.@ Rs.41.00/sq.m
Rs. 98.4

750.48

Cost per Running metre= Rupees Seven hundred only

ESTIMATE FOR THE CONSTRUCTION OF CC PROTECTION WALL THE PADDY FIELD AS PER SCHEDULED OF RATE FOR ROAD , BRIDGES & E&D FOR THE YEAR 2007-08

1/134. Excavation for structures(earthwork in excavation of the foundation of structures as per drawing and technical specification,including setting out,construction of showing and bracing,removal of stumps and deleterious matters,dressing of sides and bottom and backfilling with appropriate materials)

1 x	9.4 x	1 x	0.9	=	8.46	m³
.@Rs.34/- per cum	-			Rs.	287.64	

3/137 PCC 1:3:6 in foundation(plain cement concrete 1:3:6 nominal mix in foundation etc)

1 x 1 x 1 x		1 0.8 0.6		0.1 0.8 1.5	= = =	0.94 6.02 8.46	m³ m³ m³
- 7			~			15.42	
.@ Rs.323 cum	2/- per				Rs	49824.51	
				Say,	Rs. Rs.	50,112.15 50,000.00	

Grand total(Rupees fifty thousand) only.

ESTIMATE FOR CONSTRUCTION OF CC CORE WALL WITH EARTH FILLED DAM AND LEAD CHANNEL AS PER SCHEDULE OF RATES FOR ROADS,BRIDGES AND E&D WORKS FOR THE YEAR 2007-2008

1/134. Excavation for structures(earthwork in excavation of the foundation of structures as per drawing and technical specification, including setting out, construction of showing and bracing, removal of stumps and deleterious matters, dressing of sides and bottom and backfilling with appropriate materials)

I.A(i) Ordinary soil									
Core wall	1	х	12.30	х	0.90	х	0.80	8.86	т³
L/Channel	1	х	5.00	х	1.10	х	1.25	6.88	т³
								15.73	т³
.@Rs.34/- cum							Rs.	534.854	

2/137 PCC 1:3:6 in foundation(Plain cement concrete 1:3:6 nominal mix in foundation with crushed stone aggregate 40mm nominal size.

Core wall	1	х	12.30	х	0.90	Х	0.10	1.11	т³
	1	х	12.30	х	0.80	Х	0.70	6.89	т³
	1	х	12.30	х	0.55	х	1.50	10.15	т³
L/ channel	2	х	5.00	х	0.15	х	1.25	1.88	т³
	2	х	5.00	х	0.10	Х	0.80	0.80	т³
								20.82	т³
.@ Rs.3232/- cum							Rs.	67282.16	

4/29. Construction of embankment with approved material obtained from borrow pits with a lift upto 1.50 m transporting to site, spreading, grading to required slope and compacting to meet requirement with a lead upto 1000 m as per technical specification.

Dam	1	х	12.30	x	5.20	х	1.8	115.13	т³
Deduct	1	Х	12.30	х	0.55	х	1.50	10.15	т³
								104.98	т³
.@Rs.247/- cum							Rs.	25930.18	

5/78. Plastering with cement mortar (1:4) 15mm thick

.@ Rs.41.00/sq.m

L/channel	2	х	5.00	х	0.90			9.00	m²
	2	х	5.00	х	0.15			1.50	m²
	1	х	5.00	х	0.8		_	4.00	m²
								14.50	m²
.@ Rs.75/- per sq.m							Rs.	1087.50	
						C.O.	Rs.	94834.70	
						B.F.	Rs.	94834.70	

 6/37.
 Furnishing and laying of the live sods of perrennial turf forming grass on embankment slope, verges or other locations shown on the drawing including preparation of ground, fetching of sods and watering as per technical specification

 Dam
 1
 x
 12.30
 x
 2.01
 24.723
 m²

 1
 x
 12.30
 x
 2.5
 30.75
 m²

 55.473
 m²

Rs. **2274.393**

7/100 Providing and laying pitching on slopes laid over prepared filter media as per drawing and technical specification.
 I. Stone/Boulder
 Dam 12.30 × 2.01 × 0.15 3.70845 m³

.@ Rs.	884/- per cum			3278.27
			Rs.	100387.36
Grand Total		Say	Rs.	1,00,000

(Rupees One lakhs)only.

ESTIMATE FOR THE CONSTRUCTION OF SPRING CHAMBER WITH WATER RESERVOIR. UNDER IWMP. (Rates as per P.W.D Schedule of rates for building works) 2007 – 2008

1/1.1 Earth work in excavation in foundation trenches, including dressing of sides and ramming of the bottom including stacking etc.d) Soft laminated reals or medium shale.

d) Soft laminated rock or medium shale.

For Spring Chamber:	
1 x 1 x 2.5 x 0.80 x 1.10	$= 2.20 \text{ m}^3$
1 x 2 x 2.5 x 0.80 x 0.70	$= 2.24 \text{ m}^3$
For Reservoir:	
$1 \ge 2 \ge 2.5 \ge 0.30 \ge 0.50$	$= 0.75 \text{ m}^3$

$$1 x 2 x 1.5 x 0.30 x 0.50 = 0.45 m^{3}$$

For Pipe Pedestals:
$$10 x 0.40 x 0.40 x 0.60 = 0.96 m^{3}$$
$$6.60 m^{3}$$

$$@$$
 Rs. 85/- m³ Rs. 561.00

2/4.5 Providing 100 mm thick soling with approved quality of stone etc.

For Spring Chamber: $1 \times 1 \times 2.50 \times 0.80 = 2.00 \text{ m}^3$ $1 \times 2 \times 2.00 \times 0.80 = 3.20 \text{ m}^3$

For Reservoir: m³

1 x 2 x 2.50 x 0.30 1 x 2 x 1.50 x 0.30	$= 1.50 \text{ m}^3 \\ = 0.90 \text{ m}^3$
$1 \ge 1 \ge 2.50 \ge 1.50$ For Pipe Pedestal: m ³	$= 3.75 \text{ m}^3$
10 x 0.40 x 0.40	$= 1.60 \text{ m}^3$

$$= 12.95 \text{ m}^3$$

@ Rs. 115/- m³ Rs. 1,489.25

3/2.1 Providing and laying cement concrete in prop. 1:4:8 etc.

For Spring Chamber:	
1 x 1 x 2.50 x 0.80 x 0.10	$= 0.20 \text{ m}^3$
1 x 2 x 2.00 x 0.80 x 0.10	$= 0.32 \text{ m}^3$
For Reservoir:	
1 x 2 x 2.50 x 0.30 x 0.10	$= 0.15 \text{ m}^3$
1 x 2 x 1.50 x 0.30 x 0.10	$= 0.09 \text{ m}^3$

For Pipe Pedestals:

10 x 0.40 x 0.40 x 0.10	$\frac{= 0.16 \text{ m}^3}{= 0.92 \text{ m}^3}$	
	@ Rs. 2393/- m ³	Rs. 2,201.56

4/2.2 Providing and laying cement concrete in prop. 1:3:6 etc. For Spring Chamber:

$$1 x 1 x 2.50 x 0.60 x 0.70 = 1.05 m^{3}$$

$$1 x 2 x 2.00 x 0.60 x 0.65 = 1.56 m^{3}$$

$$1 x 1 x 2.50 x 0.26 + 0.55 x 1.35 = 1.36 m^{3}$$

$$2$$

$$1 x 2 x 2.00 x 0.25 + 0.26 x 0.45 = 1.80 m^{3}$$

	2		
	2		
	$1 \ge 2 \ge 2.00 \ge 0.25 \pm 0.55 \ge 2$	$1.80 = 2.80 \mathrm{m}^2$	
	_		
	For Reservoir : 1 x 2 x 2.50 x 0.30 x	$0.30 = 0.45 \text{ m}^3$	
	$1 \times 2 \times 2.50 \times 0.50 \times 1 \times 2 \times 1.50 \times 0.20 \times 10^{-10}$	$0.30 = 0.45 \text{ m}^3$	
	1 x 2 x 1.50 x 0.30 x	0.30 = 0.27 m $0.20 = 0.75 \text{ m}^3$	
	1 x 1 x 2.50 x 1.50 x For Pine Pedestels:	0.20 = 0.73 m	
	For Pipe Pedestals: $10 \times 0.20 \times 0.20 \times 0.0$	$10 - 0.36 \text{ m}^3$	
	10 x 0.30 x 0.30 x 0.4	-10.40 m^3	
		= 10.40 m @ Rs. 2719/- m ³	Rs. 28,277.60
		@ KS. 2719/- III	KS. 20,277.00
5/2.9(a)	Providing shuttering includir	a centering for flat	
5/2.9(d)	surface such as slabs, shelves		
	vertical faces such as column		
	For spring chamber:		
	1 x 2 x 2.50 x 0.70	-350 m^{\Box}	
	2 x 2 x 2.00 x 0.65	-5.00 m^{-1}	
	$1 \times 1 \times 2 = 50 \times 1 = 50$	$= 3.20 \text{ m}^{-1}$	
	1 x 1 x 2.50 x 1.50 1 x 1 x 2.50 x 1.60	$= 3.75 \text{ m}^{-1}$	
	$1 \times 2 \times 0.25 + 0.26 \times 0.45$	= 4.00 m	
	$1 \times 2 \times \frac{0.23 + 0.20}{2} \times 0.43$	- 0.223 III	
	2 x 2 x 2.00 x 0.70	$-560 \mathrm{m}^{\Box}$	
	2 x 2 x 2.00 x 0.70 2 x 2 x 0.60 x 0.70	$= 3.00 \text{ m}^{-1}$	
	2 x 2 x 0.00 x 0.70 2 x 1 x 2.00 x 1.50	$= 1.00 \text{ m}^{\Box}$	
	2 x 1 x 2.00 x 1.50 2 x 1 x 2.00 x 1.60	$= 6.00 \text{ m}^{\Box}$	
	$2 \times 1 \times 2.00 \times 1.00$	= 0.40 m	
	$2 \times 1 \times \frac{0.25 + 0.55}{2} \times 1.60$	= 1.28 III	
	For Reservoir :		
	1 x 2 x 2.50 x 0.30	-150 m^{\Box}	
	1 x 2 x 2.30 x 0.30 1 x 2 x 0.30 x 0.30		
	1 x 2 x 0.30 x 0.30 1 x 2 x 1.50 x 0.30	$= 0.90 \text{ m}^{\Box}$	
	1 x 2 x 1.50 x 0.50 1 x 2 x 2.50 x 1.50	= 0.90 m = 7.50 m ^{\Box}	
	1 x 2 x 2.50 x 1.50 1 x 2 x 1.50 x 1.50	= 7.50 m = 4.50 m	
	1 x 2 x 1.50 x 1.50 1 x 1 x 2.50 x 1.50	= 4.50 m = 3.75 m ^{\Begin{tabular}{c} & & & & & \\ & & & & & & \\ & & & & & &}	
		= 3.75 m = 0.50 m ^{\Box}	
	1 x 2 x 2.50 x 0.10	_	
	1 x 2 x 1.50 x 0.10	$= 0.30 \text{ m}^{\Box}$	
For Pipe Peo	destals		
	10 x 4 x 0.30 x 0.40	-4.80 m^{\Box}	
	10 x 4 x 0.15 x 0.15 10 x 4 x 0.15 x 0.15	$= 0.90 \text{ m}^{\Box}$	
	10 x 4 x 0.15 x 0.15	= 0.90 m = 62.46 m	
		@ Rs. 148/- m ²	Rs. 9,244.82
		₩ 1 X3 , 170/ ⁻ III	110. 7,477.02

6/2.3 Providing and laying cement concrete in prop 1:2:4...etc.

For Reservoir:

 $1 \times 2 \times 2.50 \times 0.15 \times 1.50 = 1.12 \text{ m}^3$

1 x 2 x 1.50 x 0.15x 1.50 1 x 1 x 2.50 x 1.50x 0.10	$= 0.67 \text{ m}^3$ = 0.37 m ³	
For pipe pedestals:		
10 x 0.15 x 0.15 x 1.20	$\frac{= 0.27 \text{ m}^3}{= 2.43 \text{ m}^3}$	
	@ Rs. 3280/- m^{\Box}	Rs. 7,970.04

7/6.2(a) Providing to steel reinforcement in R.C.C.works including cutting, bending, cranking and tying in position.....etc.

10#Tor steel: For Reservoir: $2 \times 12 \times 2.30 = 27.60 \text{ Rm.}$ $2 \times 9 \times 2.30 = 41.40 \text{ Rm.}$ For pipe pedestals: $10 \times 4 \times 1.50 = 60.00 \text{ Rm.}$ = 128.00 Rm.

@ 0.62kg./Rm. = Rs.79.36 /kgs.

8#Tor steel :

For Reservoir: $2 \times 12 \times 1.40 = 33.60$ Rm. $2 \times 9 \times 2.40 = 43.20$ Rm. $2 \times 10 \times 1.40 = 28.00$ Rm. $2 \times 10 \times 1.40 = 28.00$ Rm. = 132.80 Rm.

@ 0.39kg./Rm. = Rs.51.79/ kgs

For pipe pedestals:

$$10 \ge 9 \ge 0.50 = 45.00$$
 Rm.

@ 0.22 kg./Rm . = 9.90/ kgs

@ Rs.5373/- Qtl.	Rs.	138.23
Providing and fixing G.I. pipes including necessary Sockets, bends, jamnuts, elbows, tees etc.complete. (Rate as per market rates).		
(a) 75mm G.I. Pipes. Length – 1.30R.M. @ Rs.500/-Rm.		Rs. 650.00
(b) 50mm G.I. Pipes. Length – 27.05 R.M. @ Rs. 350/-Rm		<u>Rs. 9,467.50</u>
GRAND TOTAL :		Rs. 60,002.82
		Say, Rs. 60,000.00

8/

2.572 Qntls.

(Rupees sixty thousand) only.

ANNEXTURE IV MoA, SUB - COMMITTEE DET5AILS, ETC

۰. 4 12 -1

Table 52 : Details of Convergence of IWMP with other Schemts:

	6 · · · ·	£ .	۰ð	5			-	
1				+			2	£
		•		Namic of activity/task/surecture undertaken with converged funds	undertakon witti « Is	onverged	2	t and at which
			£.,	(a) Serveturus			Reference no. of	decision for
		Names of Departments with	to IWMP due to	(b) livelihoods		Amount	sectivity/ task/	CORVERYENCE Was
Dianici	Names of projects	Selected converging with	lakh)	(c) Any other (M. shedify)	Nos/Rrit/Ma	(Rs)	structure in 1)PR ⁴⁰	tuken
				a) Disourt Pond	6 nos	180000	the second second second	5
				(h) Bench Terrace	6 Ha	80000	90000 Freesule of Host and	
				ici Embankment	70 Rmt	49000	In Perspective Family	District Lond
Cast Guro 1 lills.	West Garo 1101s WGH-JWMP-IU	NYN	1,331000	c) Neileh Bund	2 nos	300000	NITEGE with IWMP	
		11105, 1915,000		d) OC Irrigation dam	1 nos	150000	in DUP	
		8		a) Farthen Inf Channel	460 Rmt	23000	1	
				of Rubber Plantation	60 Ha	688000		
						1380000		

Grand Total: Rupess Thirteen Lakhs Eighty Thousand only

Endcaed: Abstract of Parquective Plan for Convergence of NREGS with 14MP

A.F.

Divisional officer Tura Soli & Water Conservation(T) Division

Deputy Commissioner West Garo Hills, meghalaya -themes

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ABSTRACT OF PERSPECTIVE PLAN FOR CONVERGENCE OF NREGS WITH IMMP AT SONGMANANGCKE VILLAGE UNDER SONGCITCHAK WATERSHED.

							FROND T FERMON	PERKOL							Later 1		MM Takes
			102	2010-11		c)-110c	-15		2012-13	2-12		20	2013-14				5
	100	YHY	4	NI	NHA	NE.	z	YEIT	ΥŪΥ	8	λHJ		NIS	MIC	_	Z	
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2	2	7	\$	•	-	×	6	91	=	12	13	Ť.	5	16	17	81	2
Dug-out Pand Rifls.30000 pe no.	105	~	6000		P2	6000		-	30900		-	10000		B	180000	=	1772
Dench Tarracing@ Rs.15000/pcr Ha)	IIa				P	3000		4	60609					<u>ه</u>	90000	=	1286
Eartion Embarkatori (jälla: 700)- Per Rint)	Buirt										R	19000		P	10064	=	ę.
Entrien Chevrel(Rs SV-per Rmt)	Цщ	240	12000								122	1000		460	23000	-	29
CC Irrigation Dura <u>giles, 150000-</u> De noi	ŝ				-	00005	00009								90006	9000	88
Nellak Bundsülts, 150000-600 no)	Ant							-	00005	60000	-	90000	60009	R	1,0000	120800	
Rubber Manaton	7													8		o	
() Planting/338/1800-net [1a)	IIA	90	108000								-						
ii) Wesding (3/Rs.2000/per Ha)	Cla.	60	120000		8	120000		36	120005		8	12000			480800	0	1589
GRAND TOTAL -			305000	0	,	30000	6000		300000	6000		30000	6000		1200000	18000	17143

Secretary Songmaranggre VLC Datenggre Block, WGH. Sorgman article and V.C.V. Verse Chatronal Con-Songman angge VEC Dadengare Block, WGH. Roppinkingen Ks. 12000

Grand Tom! Rupors I hirteen Lakis arhity thrasand) only.

2. Material Compensat

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AGREEMENT FOR CONVERGENCE OF SCHEME

The Village Employment Council (VEC) and the Communities of Songmaranggre Village, Dadenggre Block. West Garo Hills, Meghalaya have no objection to the Convergence of NREGS with Integrated Watershed Management Project (IWMP) at Songmaranggre village under Songgitchak Micro-Watershed, WGH-IWMP-II being implemented by Tura Soil & Water Conservation (T) Division.

We also agreed to allocate 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 (2010-22 to 2013-14). The wage and material component under NREGs shall be utilized for following works.

1. Dug-out Pond.

2. Bench Terrace.

3. Earthen Embankment

4. Earthen Irrigation Channel.

5. C.C. Irrigation Dam.

6. Nallah Bund.

7. Rubber Plantation.

Chairman, Village Employment Council Songmaranggre Dadenggre Block, WGH

> Kanon Increac President Songmaranggre V E C West Garo Hilfe

Secretary Village Employment Council Songmaranggre Dadenggre Block, WGH.

> Georgiany Songmaranggre V.E.(West Gam Hilts

NO OBJECTION CERTIFICATE OF THE AKING NOKMA FOR UNDERTAKING ENTRY POINT ACTIVITY (EPA) AT SONGMARANGGRE MICRO WATERSHED, WGH-I.W.M.P-JI BY TURA SOIL & WATER CONSERVATION (T) DIVISION.

The A'king Nokma of Songmaranggre village under Songgitchak Micro Watershed project, WGH-IWMP-II has No Objection to the Entry Point Activity (EPA) to be undertaken in my A'king land Soil & Water Conservation Department.

The proposed activity under Entry point Activity shall benefit the villagers and there will be No Objection in future from the villagers of the watershed area. We also pledge to maintain the asset created through EPA to ensure sustainability.

Name & Signature of A'king Nokma

RECEIPTING Segma Risanger 19 35(21) Bongmaterias A 43 rd West Gaio man

Countersigned by

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