

GOVERNMENT OF INDIA



DETAILED PROJECT REPORT

ON

MIDDLE DABUA MICRO WATERSHED

UNDER

INTEGRATED WATERSHED MANAGEMENT PROGRAMME (IWMP-IV)

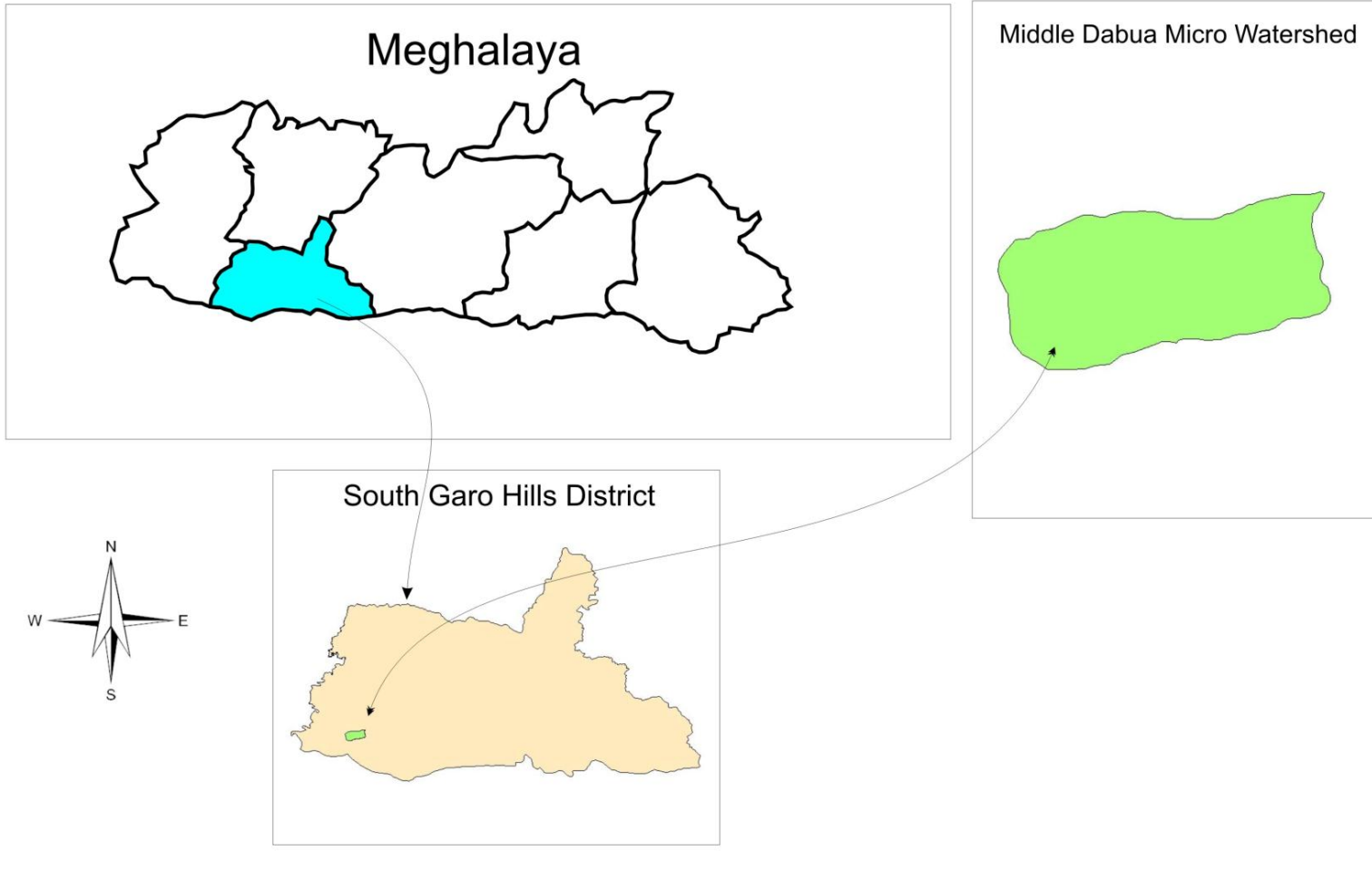
2010-2011

BAGHMARA SOIL & WATER CONSERVATION (CC) DIVISION.

SOUTH GARO HILLS

MEGHALAYA

Index Map of Middle Dabua MWS under IWMP-IV
South Garo Hills District



SUMMARY

Name of the State	:	Meghalaya
Name of the District	:	South Garo Hills District
Name of the C&RD Block	:	Gasuapara
Name of the Villages	:	(i) Meka Adugre (ii) Molmegre
Name of the Project	:	South Garo Hills – IWMP-IV
Total Geographical Area	:	512 Ha
Total Treatment Area	:	500 Ha
Total Project Cost	:	75 lakhs
Project Duration	:	5 Years
Project Implementing Agency	:	Soil & Water Conservation (Cash Crop) Division, Baghmara.

TABLE OF CONTENTS

CHAPTER I INTRODUCTION AND BACKGROUND	3
CHAPTER II BASIC INFORMATION OF THE PROJECT AREA	6
CHAPTER III PROJECT PLANNING & INSTITUTION BUILDING	16
CHAPTER IV PROJECT ACTIVITIES	23
CHAPTER V PROJECT PHASING & BUDGETING	38
CHAPTER VI CAPACITY BUILDING	50
CHAPTER VII EXPECTED OUTCOME	55
ANNEXURE I MAPS	77
ANNEXURE II SOCIO-ECONOMIC SURVEY DETAILS.....	87
ANNEXURE III COST ESTIMATES	92
ANNEXURE IV MoA, SUB COMMITTEE DETAILS ETC.....	116



CHAPTER I
INTRODUCTION AND BACKGROUND

CHAPTER I

INTRODUCTION AND BACKGROUND

1.1 Project Background:

The Middle Dabua Nala (IWMP-IV) project is located in Gasuapara C&RD Block, South Garo Hills District of Meghalaya. Consisting of a single micro-watershed, the project area is drained by the Dabua River and its tributaries flowing in a north to south direction. The total area is 512 Ha. with 500 to be treated under the Integrated Watershed Management Programme (IWMP).

The Project area is located at a distance of about 7 km from Gasuapara , C&RD Block and about 52 km from Baghmara the District Headquarter. A total of two villages are covered under the project. These are –

- 1 Meka Adugre
- 2 Molmegre

1.2 Micro-watershed Information:

The micro-watershed is yet to be codified by the North East Space Application Centre (NESAC). The total area of the micro-watershed is 512 Ha., with 500 hectares to be treated under the Integrated Watershed Management Programme (IWMP).

1.3 Need and Scope for Watershed Development:

The Middle Dabua Nala micro-watershed falls under the High Priority category as per the prioritization of watersheds by the North East Space Application Centre (NESAC). The village do not have pucca or (all weathered road) connectivity. The farmers are all marginal and 22 households are below the poverty line, which is 100% of the total households. Jhum cultivation is practiced by most of the inhabitants of these villages on the slopes.

Even though the area receives ample rainfall during the monsoons, there is acute shortage of water during the dry seasons and the villagers have to travel long distances for fetching water even for domestic use.

1.4 Other developmental projects/schemes running in the Project Area:

The other developmental projects/schemes undertaken in the Project Area are:-

- (i) MGNREGS
- (ii) Swarnjayanti Gram Swarozgar Yojana (SGSY)
- (iii) Backward Region Grand Fund (BRGF)

CHAPTER II
BASIC INFORMATION OF THE PROJECT AREA

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BASIC INFORMATION OF THE PROJECT AREA

2.1 Location: The Project area is located under Gasuapara C&RD Block, South Garo Hills District. It is situated at a distance of about 7 km from Gasuapara C&RD Block and about 52 km from Baghmara the District Headquarter. The geographical location is between $90^{\circ} 20' 05''$ to $90^{\circ} 22' 18''$ E Longitude and $25^{\circ} 12' 15''$ to $25^{\circ} 13' 55''$ N Latitude. There are two villages within the Watershed which are as follows –

- 1.Meka Adugre
- 2.Molmegre

At present, these villages are connected to kuccha road only.

Physiography:

The topography of the micro-watershed is highly undulating table land tracts with gentle to moderate slopes. The slopes vary from 10% to 15 % and 15% to 35%. The lower reaches of the Watershed is relatively flat and suitable for agriculture. The altitude ranges from a minimum of 28m a high of 66m above mean sea level.

2.2

Table 2.1: Physiographic details

Elevation (metres)	Slope Range (%)	Order of watershed Sub/Micro-watershed	Major streams	Topography
28 m to 66 m	10% to 15 % & 15% to 35%	Micro Watershed	Dabua	Moderately Sloping

2.3 Drainage: The major stream draining the micro-watershed is the Dabua which is a 3rd order stream flowing in a north-south direction. The slopes of the micro-watershed are dissected by numerous small tributaries flowing to the Dabua.

2.4 Soil: The soils are ranging from the loamy skeletal to fine loamy types in texture with PH value ranging from 4.6 to 6.1. soil depth varies from very shallow to deep. Soils are permeable and generally acidic in nature. Owing to highly undulating land form and absence of good vegetation cover, the area is exposed to erosion hazards. The soil nutrient status in the area shows a general trend of low phosphorus content.

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

1	2	3	4	5	6	7	8	9		
Sl. No.	Names of State	Names of District	Names of Projects	Cause	Types of erosion	Area affected (ha)	Run-off (mm/ year)	Average soil loss (Tonnes/ ha/ year)		
1	Meghalaya	South Garo Hills	South Garo Hills – IWMP IV	Water erosion:					2500-4000	10-15
				a	Sheet	500				
				b	Rill					
				c	Gully					
				Sub total		500				
Wind erosion		Nil	Nil	Nil						

2.5 Climate: The area in the foothills or low lying areas and mid-slopes are hot in summer and remain cold throughout the winter. The area on the higher reaches is warm during summer and cold during winter. The average annual rainfall is 4000 mm.

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

1	2	3	4	5	6	7		8	9	
Sl. No.	Name of State	Name of the Agro-climatic zone	Area (in ha)	Names of the districts	Names of the Projects	Major soil types		Average annual rainfall in mm (preceding 5 years' average)	Major crops	
						a) Type	b) Area (ha)		a) Name	b) Area (ha)
1	Meghalaya	Southern Slopes and Valley	512 Ha	South Garo Hills	South Garo Hills – IWMP-IV	Coarse loamy skeletal with moderately steeply sloping on hill top and have severe erosion hazards.	512 Ha	4000 mm	Arecanut	12
									Colocasia	11.9
									Rice	11
									Cashewnut	9
									Tapioca	11.9
									Maize	11.9
									Pumpkin	11.9
									Brinjal	11.9
									Cow pea	11.9
									Chilli	11.9
									Rubber	8
								Total		123.3

2.1 Agriculture: Agriculture is the primary occupation of the people in this area. The people of Lower Dabua Nala watershed practice jhum. The jhum plots vary from 3.0 to 3.5 Ha, and are cultivated for 2-3 years. The principal agricultural crops grown of the jhum fields are Chilli, Ginger, rice, Brinjal, Colocasia, Tapioca, Maize etc. Among Fruit crops they grow only areca nut & cashew nut in the watershed area. The slopes of the Lower Dabua Nala are also very suitable for areca nut, betel leaf, black pepper, rubber etc. 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.)
Maize	11.9	6	72
Turmeric	11.9	30	360
Colocasia	11.9	35	420
Rice	11	15	285
Ginger	11.9	25	300
Tapioca	11.9	30	360
Chilli	11.9	4	48
Cow pea	11.9	15	180
Pumpkin	11.9	50	600
Cucumber	11.9	35	420
Arecanut	12	12	144
Cashew nut	9	8	104
Rubber	8	12	96
Brinjal	11.9	20	240
Total	159	297	3452

2.6 Natural Vegetation: The tree species common to the watershed area includes – *Tectona grandis*, *Toona ciliata*, *Albizia* spp. *Tamarindus indica*, *Bahunia variegata*, *Gmelina arborea* and *Shorea robusta*, *Bombax cieba* etc.

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 pucca road communication, primitive way of agricultural practices like jhumming and the difficult terrain of the area.

Demographic Status: The total household in the watershed project is 22 with a total population of 113, of which 55 are male and 58 are female. The detail of the household in each of the villages in the watershed project is as follows:

Village	No. of Household	No. of Male	No. of Female	Total	Average No. of family
Meka Adugre	11	29	34	63	5-6
Molmegre	11	26	24	50	4-5
TOTAL	22	55	58	113	5-6

Infrastructure facilities :

- 2.1.1 *Roads:* All the villages within the Project Area are not connected by all weathered pucca road. The Project area depends entirely on the kutcha road connected either to Gasuapara and to Baghmara.
- 2.1.2 *School:* There are only 1 L.P School and 1 U.P School within the Project Area run by the Government.
- 2.1.3 *Electricity :* There is no electricity connection in both the villages.
- 2.1.4 *Health :* There is no Community Health Centre in both the villages and the local population have to either depends on facilities available at Gasuapara or Baghmara.

2.1.5 *Water Supply* : No drinking water supply system has been provided by the PHE Deptt. However, during lean season the entire populations have to depend on springs available in the area to meet the daily requirement.

2.1.6 *Market* : There is a weekly market held once in a week at Gasuapara. However, the main market where the people sell their produce is at either Dalu, or Baghmara.

Table 2.5: Infrastructure Status.

1	2	3		4			
Name of District	Name of Project	Parameters:		Status			
South Garo Hills	South Garo Hills- IWMP IV	(i)	No. of villages connected to the main road by an all-weather road.	Nil			
		(ii)	No. of village provided with electricity	Nil			
		(iii)	No. of households without access to drinking water	22			
		(iv)	No. of educational institutions: Primary (P)/ Secondary (S)/ Higher Secondary (HS)/ Vocational institution (VI)	(P)	(S)	(HS)	(VI)
				2		-	-
		(v)	No. of village with access to Primary Health Centre	Nil			
		(vi)	No. of village with access Veterinary Dispensary	Nil			
		(vii)	No. of village with access Post Office	Nil			
		(viii)	No. of village with access Banks	Nil			
		(ix)	No. of village with access Markets/ mandis	Nil			
		(x)	No. of village with access Agro-Industries	Nil			
		(xi)	Total quantity of surplus milk	Nil			
		(xii)	No. of milk collection centres (e.g. Union (U)/ Society (S)/ Private agency (PA)/ Others (O))	(U)	(S)	(PA)	(O)
				Nil	Nil	Nil	Nil
(xiii)	No. of villages with access to Aganwadi Centres	1 No.					
(xiv)	Any other facilities with no. of villages (please specify)	Nil					

2.8 Livestock: there are 4 kinds of livestock farming being farmed in the area viz. Piggery, Poultry, Goatery and Cattle.

Table 2.6: Existing livestock population

Type of Animal	Population
Piggery	34
Poultry	205
Goatery	41
Cattle	69
Total	349

2.9 Land ownership: There are primarily two types of land holding system, namely private lands & community.

2.10 Table 2.7: Land Holding:

1	2	3	4	5	6		
Name of District	Name of the Project	Types of Farmer	No. of households	No. of BPL households	Land holding (ha)		
					Irrigated	Rainfed	Total
South Garo Hills	South Garo Hills – IWMP IV	(i) Large	-	-	-	-	-
		(ii) Small	-	-	-	-	-
		(iii) Marginal	22	22	-	137.8	137.8
		(iv) Landless	-	-	-	-	-
		Sub - Total	22	22	-	137.8	137.8

Table 2.5: Common Property Resources in the Project Area

1	2	3	4				5			
Name of District	Name of the Projects	CPR Particulars	Total Area (ha) Area owned/ In possession of				Area available for treatment (ha)			
			Pvt. Person	Govt. (specify deptt.)	PRI	Any other (Community)	Pvt. Person	Govt. (specify deptt.)	PRI	Any other (Community)
South Garo Hills	South Garo Hills – IWMP IV	(i) Wasteland/ degraded land	-	-		145 Ha	-	-	-	145 Ha
		(ii) Pastures	-	-	-	-	-	-	-	-
		(iii) Private Agriculture land	11 Ha	-	-	-	11 Ha			
		(iv) Village woodlot	-	-	-	-				
		(v) Forest	-	-	-	201 Ha				196 Ha
		(vi) Village Ponds/ Tanks	-	-	-	-				
		(vii) Community Buildings	-	-	-	-				
		(viii) Weekly Markets	-	-	-	Gasuapara				
		(ix) Permanent Markets	-	-	-	Gasuapara				
		(x) Temples/ Places of worship	-	-	-	Church- 1 no				
		(xi) Others (Pl. specify)		-	-	155 Ha				148 Ha
		Total	11 Ha	-	-	501 Ha	11 Ha	-	-	489 Ha

2.11 Land use and land cover : As per the land use land cover map generated by NESAC, Meghalaya from Satellite Image taken during 2005 – 2006 (LISS – III, Image) the Watershed area has been broadly classified into the following land uses.

a) Built-up Area	=	7 Ha
b) Other Shifting cultivation current	=	119 Ha
c) Other Shifting cultivation Abandoned	=	145 Ha
d) Agricultural land-crop land-kharif crop	=	11 Ha
e) Tree clad Area-close	=	86 Ha
f) Tree clad Area-open	=	115 Ha
g) Arecanut plantation	=	12 Ha
h) Cashewnut plantation	=	9 Ha
i) Rubber plantation	=	<u>8 Ha</u>
Total	=	512 Ha

2.12 Problems of the Area : The primary problem 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 vegetable and seasonal crops cultivation areas which has further degraded the capability of the land. 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 problem that the area is facing where large volume crops like Arecanut, jackfruits etc. do not find their way into the market which has resulted in poor socio-economic status of the people. However, to control or to overcome the said problems an innovative approach has been formulated and documented in the Action Plan or the Treatment Plan the Detailed Project Report. The method of identification of the problems is through the Participatory Rural Appraisal Exercises conducted in all the villages within the Watershed.

CHAPTER III

PROJECT PLANNING & INSTITUTION BUILDING

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PROJECT PLANNING & INSTITUTION BUILDING

3.1 Scientific Planning

- i) 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 & 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) 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
A.	Planning	
	Cluster approach	Yes
	Whether technical back-stopping for the project has been arranged? If yes, mention the name of the Institute.	Yes, NESAC, Nongsder
	Baseline survey	No
	Hydro-geological survey	No
	Contour mapping	No
	Participatory Net Planning (PNP)	Yes

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	Yes
	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 Cash Crop Division Baghmara, South 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	
South Garo Hills	South Garo Hills– IWMP IV	(i) Type of organization#	Government
		(ii) Name of organization	Soil & Water Conservation (C.C) Division, Baghmara
		(iii) Designation & Address	Divisional Soil & Water Conservation Officer (C.C), Division Baghmara
		(iv) Telephone	03639-222139
		(v) Fax	03639-222139
		(vi) E-mail	Baghmarasoil@gmail.com

3.3 Institution Building

i) Watershed Committee (WC)

The Watershed Committee of the Middle Dabua Nala, IWMP IV was constituted with the active involvement of the villagers with strong support of the Traditional Institutions (Village Durbar/Council). The Middle Dabua Nala Watershed Committee is yet to be registered under the Society Registration Act 1860.

Table 3.2: Details of Watershed Committees (WC):

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
Names of the Districts	Names of projects	Names of WCs	Date of Registration as a Society (dd/mm/yyyy)	Designation	M/F	SC	ST	SF	MF	LF	Land-less	UG	SHG	GP	Any other	Educational qualification	Function/s assigned#		
South Garo Hills District	South Garo Hills District – IWMP – IV	Middle Dabua Nala	Yet to be Registered	Chairman	M	-	ST		1							Cl – X	A to I		
				Secretary	M	-	ST										P.U	A to I	
				Member	4M	-	ST		5									Cl – VI to X	Do
				Member	3 F	-	ST		3								Do		

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

ii) Self Help Group

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

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

1	2	3				4				5			6		
Names of the Districts	Names of projects	Total no. of registered SHGs				No. of members				No. of SC/ST in each category			No. of BPL in each category		
		With only Men	With only Women	With both	Total	Categories	M	F	Total	M	F	Total	M	F	Total
South Garo Hills	SGH. IWMP IV	-	-	-	-	(i) Landless									
						(ii) SF									
						(iii) MF	0	0	0	0	0	0	NA	NA	NA
						(iv) LF									

iii) User Group

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

Table 3.4: User Group Details

1	2	3				4				5			6		
Names of Districts	Names of Projects	Total no. of Ugs				No. of members				No. of SC/ST in each category			No. of BPL in each category		
		Men	Women	Both	Total	Categories	M	F	Total	M	F	Total	M	F	Total
South Garo Hills	South Garo Hills- IWMP IV					(i) Landless									
						(ii) SF									
						(iii) MF									
						(iv) LF									
Total		Nil	Nil	Nil	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	South Garo Hills	South Garo Hills – IWMP IV	3.00	Spring Chamber with Storage tank	3.00	Nil	-	Safe drinking water to the Community	Safe drinking water to the Community

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 - geological survey	Identifying technical support agencies	Resource agreements	Preparation of DPR	Evaluation of DPR	Any other (please specify)	Cost incurred (Rs. In lakh)
South Garo Hills	South Garo Hills – IWMP IV	1 no. W/C 1no. of watershed association	3 nos.	2 nos.	Participatory Rural Appraisals	N.A	Done	Done	Done	Done	-	1.5

8											9	10
Achievement due to project												
Augmentation/ repair of existing structures				Construction of new structures				Total achievement			Change in storage capacity (col 8-6)	Change in irrigated area (ha) Col. (8-6)
No	Area irrigated (ha)	Storage capacity	Expenditure incurred (in lakhs)	No	Area irrigated (ha)	Storage capacity	Expenditure incurred (in lakhs)	Area irrigated (ha)	Storage capacity	Estimated incurred		-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	8 nos.	40	8304	6.0	-	-	-	-	-
-	-	-	-	-	--	-	-	-	-	-	-	-
-	-	-	-	8 nos.	64 Ha	10400 m ³	9.60	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	450Rm	7.5	-	1.125	-	-	-	-	-
-	-	-	-	5 Nos	32		4.80	-	-	-	-	-
-	-	-	-	8 Nos	40	9888m ³	6.0					
				29 nos.& 450 Rm	183.5 Ha	28592 m³	26.525					

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

1	2	3	4	5		6						7						8						9
				Pre-project		Proposed target						Achievement due to project												
				No.	Area irrigated (ha)	Augmentation/ repair of existing recharging structures			Construction of new recharging structures			Total target		Augmentation/ repair of existing recharging structures			Construction of new recharging structures			Total achievement				
No.	Area to be irrigated (ha)	Estimated cost	No.			Area to be irrigated (ha)	Estimated cost	Area to be irrigated (ha)	Estimated cost	No.	Area irrigated (ha)	Expenditure incurred	No.	Area irrigated (ha)	Expenditure incurred	Area irrigated (ha)	Expenditure incurred							
		Meehlava	South Garo Hills - IWMP-IV	(i)Open wells						Nil														
				(ii)Bore wells																				
				(iii)Any others																				
				1 Dug Out Pond		Nil	Nil		8	-	6.0	Nil				Nil			Nil					
				2 Water Harvesting					8	-	6.0													
				Total for the project																				

4.2.3 Activities executed by User Groups in the Project Areas.

2		3						
Names of Districts	Names of Projects	Major activities of the UGs –Targets				No. of UGs involved	Estimated Cost	Amount of WDF to be collected (Rs.)
		Structure/ activity proposed						
		Sl. No.	Type	No.#	Treatment (ha)			
South Garo Hills	South Garo Hills – IWMP IV							

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 (Rs.)	No. of mandays			Amount of WDF collected (Rs.)
Sl. No.	Type	No.#	Treated Area (ha.)			SC	ST	F	

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

1	2	3		
Names of the Districts	Names of projects	Major activities of the SHGs		
		Name of activity	No. of SHGs involved	Average annual income from activity per SHG
South Garo Hills	South Garo Hills – IWMP IV	1.Piggery	7	2.10
		2.Poultry	7	2.10
		3.Weaving	6	1.80
		4. Betel nut Processing	4	2.0
		5. Duckery	7	1.75

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 given training	Total assistance received by the SHG (Amount in Rs.)				Total annual Income generated (Rs.)	Total annual Savings (Rs.)	No. of SHGs Graded as			Total Amount of loan sanctioned by the bank(s)	No. of SHGs federated
	Loan from revolving fund	Training	Material	Others (pl. specify)			I	II	III		

4.2.7 Other activities of watershed works phase:

1	2	3		4		5		6		7		8		9		10		11		12		13
District	Names of projects	Ridge area treatment		Drainage line treatment		Nursery raising		Land development		Crop demonstrations		Pasture development		Veterinary services		Fishery development		Non-conventional energy		Any other (please specify)		Total cost incurred (Rs. In lakhs)
		(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)			
SGH	SGH IWMP -III	75 Ha	6.975 lakh	183.5 Ha	27.525 lakh	47,985 Nos	3.0 lakh	-	-	-	-	-	-	51 units	835	12 Units	-	-	-	76 Units	-	54.75 lakh

4.2.9 Details of engineering structures in watershed works.

9																	
Outcomes																	
Reduction in run off (cu.m)	Area treated# (ha)	Water level (m)		Production (quintal)		Income (Rs.)		Mandays generated					No. of beneficiaries				
		Pre-project	Post-project	Pre-project	Post-project	Pre-project	Post-project	SC	ST	Others (Men)	Women	Total	SC	ST	Others (Men)	Women	Total
2000	126	1.5	1.3	420	588	6.3	8.82		Yes	55	58	113		Yes	55	58	113

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

1	2	3	4			5			6	7				8				
District	Project	Name of structure/ work	Type of treatment			Type of land			Executing agency	Target				Achievement				
			(i) Ridge area (R)	(ii) Drainage line (D)	(iii) Land dev. (L)	(i) Private	(ii) Community	(iii) Others (pl. specify)	(i) UG (ii)SHG (iii) Others (pl. specify)	Area (ha)	No. of plants	Estimated cost (Rs. in lakh)	Expected month & year of completion (mm/yyyy)	Area (ha)	No. of plants	Expenditure incurred (Rs. in lakh)	Actual month & year of completion (mm/yyyy)	
South Garo Hills	South Garo Hills IWM P-IV	Afforestation	✓				✓		UG & SHG	35	17,500	62.44	2013-14	-	-	-	-	
		Regeneration												-	-	-	-	
		Agro-forestry												-	-	-	-	
		Fuel wood																
		Fodder																
		Agro-Horticulture													-	-	-	-
		Pasture dev.																
		Nursery raising					✓				35 Ha	47,985	3.0	2013-14				
		Others (Coffee)													-	-	-	-

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.

4.2.12 Details of allied / other activities:

1	2	3	4			5	6		7	
District	Project	Name of activity@	Type of land			Executing agency (i) UG (ii)SHG (iii) Others (pl. specify)	Target		Achievement	
			(i) Private	(ii) Community	(iii) Others (landless)		Estimated cost (Rs. in lakh)	Expected month & year of completion (mm/yyyy)	Expenditure incurred (Rs. in lakh)	Actual month & year of completion (mm/yyyy)
South Garo Hills	South Garo Hills-IWMP IV	Carpentry			7 units	Individual	0.35	2013-14		
		Bee keeping(Apiculture)			10 units	Individual	0.80	2013-14		
		Poultry			22 units	Individual	3.3	2013-14		
		Pisciculture			12 units	Individual	1.20	2013-14		
		Piggery Farming			22 units	Individual/SHGs	3.3	2013-14		
		Compos-pit			6 units	Individual	0.15	2013-14		
		Kitchen gardening			18 units	Individual	0.45	2013-14		
		Tailoring			10 units	Individual	0.80	2013-14		
		Agricultural implements			7 units	Individual	0.35	2013-14		
		Weaving			14 units	Individual/SHGs	2.80	2013-14		
		Duckery			7 units	SHGs	1.75	2013-14		
		Betel nut Processing			4 units	SHGs	2.0	2013-14		

(Contd.)

* from column no. 2, no. of States; from column no. 3, no. of Districts; from column no. 4, total no. of Projects; from column no. 5, activity-wise totals, from column no. 6, type-wise totals, from column no. 7, agency-wise totals, from column no. 8, total estimated cost, from column no. 9, total expenditure incurred, structure-wise no. of completed works, from column no. 10, item-wise totals, for the entire country may be indicated at the end of the table

@The activities given in this column are merely indicative and States are free to choose any other activity suited to the project area.

4.2.13 Details of allied / other activities:

8											
Outcomes											
Income (Rs.)		Mandays generated					No. of beneficiaries				
Pre-project	Post project	S C	ST	Others	Women	Total	SC	ST	Others (Men)	Women	Total
Nil	8.33		yes	2988	1992	4980		Yes	55	58	113

4.3 Consolidation and withdrawal phase

Details of activities in the CPRs in the project areas:

1	2	3	4	5	6				7						
Names of the Districts	Names of projects	Name(s) of the villages	CPR particulars	Activity proposed	Target				Achievement						
					Target area under the activity (ha)	Estimated expenditure (Rs.)	Expected no. of beneficiaries	Estimated contribution to WDF (Rs.)	Area treated under the activity (ha)	Expenditure incurred (Rs.)	Actual no. of beneficiaries	No. of mandays			WDF collected (Rs.)
SC	ST	F													
South Garo Hills	South Garo Hills-IWMP-1V	Meka Adu Molmegre	CPRs	Repairing	-	3.25	100	0.1625							

CHAPTER V
PROJECT PHASING & BUDGETING

CHAPTER V PROJECT PHASING & BUDGETING

ACTION PLAN OF MIDDLE DABUA NALA MICRO WATERSHED UNDER IWMP-IV

Name of District:	South Garo Hills
Name of C&RD Block:	Gasuapara

Sl No.	Activities	1st Year		2nd Year		3rd Year		4th Year		5th Year		Total	
		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
I	MANAGEMENT COST 10 %			2 %		5 %		3 %				10 %	
A	Administration Cost												
i	Honourarium of WDT Members @ Rs. 5,000 Month: 1 No.			12 Mnths	0.60	24 Mnths	1.20	12 Mnths	0.60			48 Mnths	2.40
ii	Honourarium of Watershed Volunteers @ Rs 2,000 Month-2 Nos			3 Mnths	0.12	14 Mnths	0.56	7 Mnths	0.28			24 Mnths	0.96
iii	Honourarium WCO's @ Rs. 750 Month			3 Mnths	0.0225	14 Mnths	0.105	7 Mnths	0.0525			24 Mnths	0.18
iv	Honourarium Chartered Accountant				0.15		0.15		0.15				0.45
v	TA/DA of Field Asstt. @ Rs. 5000 Month			3 Mnths	0.15	15 Mnths	0.75	6 Mnths	0.30			24 Mnths	1.20
vi	Hiring charges of office building @ Rs 2000			2 Mnths	0.04	16 Mnths	0.32	6 Mnths	0.12			24 Mnths	0.48
vii	Hiring charges of vehicle @ Rs. 2000			2 Mnths	0.04	6 Mnths	0.12	4 Mnths	0.08			12 Mnths	0.24
viii	Office expenses, PQL, Stationeries, printing of SHG's books, pamphlets, tea, snacks etc.				0.3775		0.545		0.6675				1.59
	Total of A			25 Mnth	1.50	89 Mnth	3.75	42 Mnth	2.25			156 Mnth	7.50
	PREPARATORY PHASE 4 %		4 %										4 %
B	Entry Point Activites:												
i	Construction of Drinking Water System Spring Chamber with Tank @ Rs. 1,00,000	3 Nos	3.00									3 Nos.	3.00
	Total of B	3 Nos	3.00									3 Nos.	3.00
C	Training 5 %		1 %	2 %		1 %		1 %				5 %	
i	Community Organization	1 No.	0.35	1 No.	0.25							2 Nos.	0.60
ii	Training of WDT at NIRD/ Guwahati			1 No.	0.25	1 No.	0.25	1 No.	0.25			3 Nos.	0.75
iii	Taining for W.C	1 No.	0.40	1 No.	0.25							2 Nos.	0.65
iv	Taining for SHGs			1 No.	0.25	1 No.	0.25		0.25			2 Nos.	0.75
v	Taining for Farmers			1 No.	0.25	1 No.	0.25	1 No.	0.25			3 Nos.	0.75
vi	Training for Ugs			1 No.	0.25							1 Nos.	0.25
	Total of C	2 Nos	0.75	6 Nos	1.50	3 Nos	0.75		0.75			13 Nos.	3.75

D	Detailed Project Report	1 %	1 %							1 %		
i	1 No. of vehicle hiring charge	30 Days	0.50							30 Days	0.50	
ii	Detail Base Line Survey, Identification of Engineering Structures, PRA Exercise, Making Estimate & Project Report etc.		0.25								0.25	
	Total of D	30 Days	0.75							30 Days	0.75	
E	Monitoring & Evaluation	2 %		0.5 %		1 %		0.5 %			2 %	
i	Monitoring			1 No.	0.15	1 No.	0.375	1 No.	0.225		3 Nos	0.75
ii	Evaluation			1 No	0.225	1 No.	0.375	1 No.	0.15		3 Nos	0.75
	Total of E			2 Nos.	0.375	2 Nos	0.75	2 Nos.	0.375		6 Nos	1.50
	Total of I (A to E)	0 Mnths 5 Nos 30 Days	4.50	25 Mnths 8 Nos.	3.375	89 Mnths 5 Nos.	5.25	42 Mnths 2 Nos.	3.375		156 Mnths 20 Nos. 30 Days	16.50
II	PROJECT COST/ WATERSHED WORKS PHASE			7.5 %		35 %		7.5 %			50 %	
A.	Non-Arable Land Treatment	50 %										
i	Nursery Establishment-Arecanut for 35 Ha							35 Ha	3.00		35 Ha	3.00
ii	Afforestation (Non Pine) 35 Ha @ Rs. 10,100/-											
	a) Preliminary Year @ Rs. 1,700 /- per Ha			35 Ha.	0.595						35 Ha.	0.595
	b) 1st Year Planting @ Rs. 5,500 /- per Ha					Mntce	1.925					1.925
	c) 2nd Year Planting @ Rs. 2,900 /- per Ha							Mntce	1.015			1.015
iii	Rubber Plantation 40 Ha. @ Rs. 8,600											
	a) Pre-Work @ Rs. 1,300 /- per Ha.			40 Ha	0.52						40 Ha	0.52
	b) 1st Year Planting including cost of Rubber Stump @ Rs. 4,600 /- per Ha.					Mntce	1.84					1.84
	c) 2nd Year Planting @ Rs. 2,700 /- per Ha.							Mntce	1.08			1.08
	Total of A			75 Ha.	1.115		3.765	35 Ha	5.095		110 Ha.	9.975
B	Drainage Line Treatment											
i	Small Dug-Out Pond @ Rs. 75,000			2 Nos.	1.50	6 Nos.	4.50				8 Nos.	6.00
ii	Protect/ Retaining Wall @ Rs. 80,000			1 No.	0.80	5 Nos.	4.00				6 Nos.	4.80
iii	Water Harvesting Structure @ Rs. 75,000			1 No.	0.75	7 Nos.	5.25				8 Nos.	6.00
iv	C.C Check Dam @ Rs. 1,20,000			1 No.	1.20	7 Nos.	8.40				8 Nos.	9.60
v	Run-off Disposal/ Diversion Channel as per Estimate			100 Rm	0.26	150 Rm.	0.335	200 Rm	0.53		450 Rm.	1.125
	Total of B			5 No.	4.51	25 Nos. 150 Rm.	22.485	0 Nos.	0.53		30 Nos 450 Rm.	27.525
	Total of A+ B	50 %		100 Rm 75 Ha. 5 Nos.	5.625	150 Rm. 25 Nos.	26.25	200 Rm 35 Nos.	5.625		450 Rm. 110 Ha. 30 Nos.	37.50

C	Livelihood Activities	10		1 %	3 %	6 %		10 %					
	for the asset less persons												
i	Tailoring @ Rs	8,000 /- Unit		2 Units	0.16	3 Units	0.24	5 Units	0.40			10 Units	0.80
ii	Carpentry @ Rs	5,000 /- Unit		1 Unit	0.05	1 Unit	0.05	5 Units	0.25			7 Units	0.35
iii	Kitchen Gardening @ Rs	2,500 /- Unit		2 Units	0.05	3 Units	0.08	13 Units	0.325			18 Units	0.45
iv	Weaving @ Rs	12,500 /- Unit		1 Unit	0.125	4 Units	0.50	3 Units	0.375			8 Units	1.00
v	Piggery @ Rs	8,000 /- Unit		1 Unit	0.08	5 Units	0.40	9 Units	0.72			15 Units	1.20
vi	Poultry @ Rs	8,000 /- Unit		1 Unit	0.08	5 Units	0.40	9 Units	0.72			15 Units	1.20
vii	Apiculture @ Rs	8,000 /- Unit		1 Unit	0.08	2 Units	0.16	7 Units	0.56			10 Units	0.80
viii	Pisciculture @ Rs	10,000 /- Unit		1 Unit	0.10	3 Units	0.30	8 Units	0.80			12 Units	1.20
ix	Compos Pit @ Rs	2,500 /- Unit		1 Unit	0.025	3 Units	0.075	2 Units	0.05			6 Units	0.15
x	Agricultural implements @ Rs	5,000 /- Unit				1 Unit	0.05	6 Units	0.30			7 Units	0.35
				11 Units	0.75	30 Units	2.25	67 Units	4.50			108 Units	7.50
D	Production System	13 %		1%		5%		7 %				13 %	
i	Piggery @ Rs	30,000 /- Unit				3 Units	0.90	4 Units	1.20			7 Units	2.10
ii	Poultry @ Rs	30,000 /- Unit				4 Units	1.20	3 Units	0.90			7 Units	2.10
iii	Weaving @ Rs	30,000 /- Unit				3 Units	0.90	3 Units	0.90			6 Units	1.80
iv	Betel Nut Processing @ Rs	50,000 /- Unit		1 Unit	0.50	1 Unit	0.50	2 Units	1.00			4 Units	2.00
v	Duckery @ Rs	25,000 /- Unit		1 Unit	0.25	1 Unit	0.25	5 Units	1.25			7 Units	1.75
	Total of D			2 Units	0.75	12 Units	3.75	17 Units	5.25			31 Units	9.75
E	Consolidation & Exit Phase	5 %								5 %		5 %	
i	Repairing of Small Dug-out Pond									5 Nos.	0.50	5 Nos.	0.50
ii	Repairing of Protection/ Retaining Wall									5 Nos.	0.75	5 Nos.	0.75
iii	Repairing of Water Harvesting Structure									5 Nos.	1.00	5 Nos.	1.00
iv	Repairing of C.C Check Dam									5 Nos.	1.00	5 Nos.	1.00
v	Preparation of Project Completion Report									1 No.	0.25	1 No.	0.25
vi	Documentation of the Project									1 No.	0.25	1 No.	0.25
	Total of E									22 Nos.	3.75	22 Nos.	3.75
	Total of II (A+B+C+D+E)				7.125		32.25		15.375		3.75		58.50
	Grand Total		4.50		10.50		37.50		18.75		3.75		75.00
		100 %	6 %	14 %		50 %		25 %		5 %		100 %	


L. N. Marak
 Divisional Officer
 Baghmara, Soil Cons. (C.C.) Division
 Baghmara, South Garo Hills.


Deputy Commissioner
 South Garo Hills, Baghmara

VILLAGE PLAN OF MIDDLE DABUA NALA MICRO WATERSHED UNDER IWMP-IV

Name of District:	South Garo Hills
Village	Meka Adugre

II	PROJECT COST/ WATERSHED WORKS PHASE		4.76 %		16.44 %		4.103 %			25 %
A.	Non-Arable Land Treatment 25.30333 %									
i	Nursery Establishment-Arecanut for 17.5 Ha						17.5 Ha	1.50		17.5 Ha 1.50
ii	Afforestation (Non Pine) 17.5 Ha @ Rs. 10,100/-									
	a) Preliminary Year @ Rs. 1,700 /- per Ha		17.5 Ha.	0.2975						17.5 Ha. 0.2975
	b) 1st Year Planting @ Rs. 5,500 /- per Ha				Mntce	0.9625				0.9625
	c) 2nd Year Planting @ Rs. 2,900 /- per Ha						Mntce	0.5075		0.5075
iii	Rubber Plantation 20 Ha. @ Rs. 28,935									
	a) Pre-Work @ Rs. 1,300 /- per Ha.		20 Ha	0.26						20 Ha 0.26
	b) 1st Year Planting including cost of Rubber Stump @ Rs. 4,600 /- per Ha.				Mntce	0.92				0.92
	c) 2nd Year Planting @ Rs. 2,700 /- per Ha.						Mntce	0.54		0.54
	Total of A		37.5 Ha.	0.5575		1.8825	17.5 Ha	2.5475		55 Ha. 4.988
B	Drainage Line Treatment									
i	Small Dug-Out Pond @ Rs. 75,000		1 No.	0.75	3 Nos.	2.25				4 Nos. 3.00
ii	Protect/ Retaining Wall @ Rs. 80,000		1 No.	0.80	2 Nos.	1.60				3 Nos. 2.40
iii	Water Harvesting Structure @ Rs. 75,000			-	4 Nos.	3.00				4 Nos. 3.00
iv	C.C Check Dam @ Rs. 1,20,000		1 No.	1.20	3 Nos.	3.60				4 Nos. 4.80
v	Run-off Disposal/ Diversion Channel as per Estimate		100 Rm	0.26			200 Rm	0.53		300 Rm. 0.79
	Total of B		3 No.	3.01	12 Nos.	10.45	0 Nos.	0.53		15 Nos 13.99
	Total of A+ B 25.3033 %		100 Rm				200 Rm			300 Rm.
			37.5 Ha.	3.568		12.33	17.5 Ha	3.078		55 Ha. 18.9775
			3 Nos.		12 Nos.					15 Nos.

C	Livelihood Activities	5.00		0.45 %		1.45 %		3.10 %			5 %	
	for the asset less persons											
i	Tailoring @ Rs	8,000 /- Unit		1 Unit	0.08	1 Units	0.08	3 Units	0.24		5 Units	0.40
ii	Carpentry @ Rs	5,000 /- Unit		1 Unit	0.05		-	3 Units	0.15		4 Units	0.20
iii	Kitchen Gardening @ Rs	2,500 /- Unit		1 Unit	0.025	2 Units	0.05	6 Units	0.150		9 Units	0.225
iv	Weaving @ Rs	12,500 /- Unit			-	2 Units	0.25	2 Units	0.25		4 Units	0.50
v	Piggery @ Rs	8,000 /- Unit		1 Unit	0.08	2 Units	0.16	4 Units	0.32		7 Units	0.56
vi	Poultry @ Rs	8,000 /- Unit			-	3 Units	0.24	5 Units	0.40		8 Units	0.64
vii	Apiculture @ Rs	8,000 /- Unit		1 Unit	0.08	1 Unit	0.08	3 Units	0.24		5 Units	0.40
viii	Pisciculture @ Rs	10,000 /- Unit			-	2 Units	0.20	4 Units	0.40		6 Units	0.60
ix	Compos Pit @ Rs	2,500 /- Unit		1 Unit	0.025	1 Units	0.025	1 Unit	0.03		3 Units	0.08
x	Agricultural implements @ Rs	5,000 /- Unit					-	3 Units	0.15		3 Units	0.15
				6 Units	0.34	14 Units	1.09	34 Units	2.33		54 Units	3.75
D	Production System	6.333 %		0.67 %		2.73 %		2.93 %			6.33 %	
i	Piggery @ Rs	30,000 /- Unit				2 Units	0.60	2 Units	0.60		4 Units	1.20
ii	Poultry @ Rs	30,000 /- Unit				2 Units	0.60	1 Unit	0.30		3 Units	0.90
iii	Weaving @ Rs	30,000 /- Unit				2 Units	0.60	1 Unit	0.30		3 Units	0.90
iv	Betel Nut Processing @ Rs	50,000 /- Unit		1 Unit	0.50		-	1 Unit	0.50		2 Units	1.00
v	Duckery @ Rs	25,000 /- Unit				1 Unit	0.25	2 Units	0.50		3 Units	0.75
	Total of D			1 Units	0.50	7 Units	2.05	7 Units	2.20		15 Units	4.75
	Grand Total				4.4075		15.4675		7.6025			27.4775
		36.6367 %		5.877 %		20.623 %		10.137 %			36.637 %	


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 Baghmara, South Garo Hills.

VILLAGE PLAN OF MIDDLE DABUA NALA MICRO WATERSHED UNDER IWMP-IV

Name of District:	South Garo Hills
Name of C&RD Block:	Molmegre

II	PROJECT COST/ WATERSHED WORKS PHASE		2.743	%	18.56	%	3.397	%		25 %
A.	Non-Arable Land Treatment	25 %								
i	Nursery Establishment-Arecanut for 17.5 Ha						17.5 Ha	1.50		17.5 Ha 1.50
ii	Afforestation (Non Pine) 17.5 Ha @ Rs. 10,100/-									
	a) Preliminary Year @ Rs. 1,700 /- per Ha		17.5 Ha.	0.2975						17.5 Ha. 0.2975
	b) 1st Year Planting @ Rs. 5,500 /- per Ha				Mntce	0.9625				0.9625
	c) 2nd Year Planting @ Rs. 2,900 /- per Ha						Mntce	0.5075		0.5075
iii	Rubber Plantation 20 Ha. @ Rs. 28,935									
	a) Pre-Work @ Rs. 1,300 /- per Ha.		20 Ha	0.26						20 Ha 0.26
	b) 1st Year Planting including cost of Rubber Stump @ Rs. 4,600 /- per Ha.				Mntce	0.92				0.92
	c) 2nd Year Planting @ Rs. 2,700 /- per Ha.						Mntce	0.54		0.54
	Total of A		37.5 Ha.	0.5575		1.8825	17.5 Ha	2.5475		55 Ha. 4.9875
B	Drainage Line Treatment									
i	Small Dug-Out Pond @ Rs. 75,000		1 No.	0.75	3 Nos.	2.25				4 Nos. 3.00
ii	Protect/ Retaining Wall @ Rs. 80,000			-	3 Nos.	2.40				3 Nos. 2.40
iii	Water Harvesting Structure @ Rs. 75,000		1 No.	0.75	3 Nos.	2.25				4 Nos. 3.00
iv	C.C Check Dam @ Rs. 1,20,000			-	4 Nos.	4.80				4 Nos. 4.80
v	Run-off Disposal/ Diversion Channel as per Estimate		100 Rm		150 Rm.	0.335				250 Rm. 0.335
	Total of B		2 No.	1.50	13 Nos. 150 Rm.	12.035		-		15 Nos 250 Rm. 13.535
	Total of A+ B	24.6967 %	100 Rm 37.5 Ha. 2 Nos.	2.0575	150 Rm. 13 Nos.	13.9175	17.5 Ha -	2.5475 Nos.		250 Rm. 55 Ha. 15 Nos. 18.5225

C	Livelihood Activities	5.00		0.55 %		1.55 %		2.90 %		5 %		
	for the asset less persons											
i	Tailoring @ Rs	8,000 /- Unit		1 Unit	0.08	2 Units	0.16	2 Units	0.16		5 Units	0.40
ii	Carpentry @ Rs	5,000 /- Unit			-	1 Unit	0.05	2 Units	0.10		3 Units	0.15
iii	Kitchen Gardening @ Rs	2,500 /- Unit		1 Unit	0.03	1 Units	0.03	7 Units	0.175		9 Units	0.23
iv	Weaving @ Rs	12,500 /- Unit		1 Unit	0.125	2 Units	0.25	1 Unit	0.125		4 Units	0.50
v	Piggery @ Rs	8,000 /- Unit		Unit	-	3 Units	0.24	5 Units	0.40		8 Units	0.64
vi	Poultry @ Rs	8,000 /- Unit		1 Unit	0.08	2 Units	0.16	4 Units	0.32		7 Units	0.56
vii	Apiculture @ Rs	8,000 /- Unit			-	1 Unit	0.08	4 Units	0.32		5 Units	0.40
viii	Pisciculture @ Rs	10,000 /- Unit		1 Unit	0.10	1 Units	0.10	4 Units	0.40		6 Units	0.60
ix	Compos Pit @ Rs	2,500 /- Unit			-	2 Units	0.050	1 Unit	0.025		3 Units	0.075
x	Agricultural implements @ Rs	5,000 /- Unit				1 Unit	0.05	3 Units	0.15		4 Units	0.20
				5 Units	0.41	16 Units	1.165	33 Units	2.175		54 Units	3.75
D	Production System	6.667 %		0.33 %		3 %		3.33 %			6.667 %	
i	Piggery @ Rs	30,000 /- Unit				1 Unit	0.30	2 Units	0.60		3 Units	0.90
ii	Poultry @ Rs	30,000 /- Unit				3 Units	0.90	1 Unit	0.30		4 Units	1.20
iii	Weaving @ Rs	30,000 /- Unit				1 Unit	0.30	2 Units	0.60		3 Units	0.90
iv	Betel Nut Processing @ Rs	50,000 /- Unit			-	1 Unit	0.50	1 Unit	0.50		2 Units	1.00
v	Duckery @ Rs	25,000 /- Unit		1 Unit	0.25	1 Unit	0.25	2 Unit	0.50		4 Units	1.00
	Total of D			1 Units	0.25	7 Units	2.25	8 Units	2.50		16 Units	5.00
	Grand Total				2.7175		17.3325		7.2225			27.2725
		36.3633 %		3.623 %		23.11 %		9.63 %			36.3633 %	


L. N. Marak
 Divisional Officer
 Baghmara, Soil Cons. (C.C.) Division
 Baghmara, South Garo Hills.

**ABSTRACT OF PERSPECTIVE PLAN FOR CONVERGENCE OF NREGS WITH IWMP 2010-11
AT MEKA ADUGRE & MOLMEGRE VILLAGE UNDER MIDDLE DABUA MICRO WATERSHED,SGH - IWMP-IV**

Name of Village : Meka Adugre & Molmegre

Total No. of Job Card Holder : 22 Household

Total Wage Component @ Rs 117/- per annum in the 1st year	Rs. 41,280
Total Wage Component @ Rs 117/- per annum in the 2nd year	Rs. 7,02,240
Total Wage Component @ Rs 117/- per annum in the 3rd year	Rs. 41280
Total Wage Component @ Rs 117/- per annum in the 4th year	Rs. 0
Total Wage Component	= Rs. 7,84,800

Sl No	Activities	Units	PROJECT PERIOD												Total			Mandays to be Generated	
			2011-12			2012-13			2013-14			2014-15			Financial				
			Phy	Financial		Phy	Financial		Phy	Financial		Phy	Financial		Phy	Financial			
				Wages	Material		Wages	Material		Wages	Material		Wages	Material		Wages	Material		Total
1	Small Dug out Pond @ Rs. 75,000	Nos.				3	1,35,000	90,000							3	1,35,000	90,000	2,25,000	1154
2	Rubber Plantation @ Rs. 8,600 per Ha.	Ha.	8	41,280	27,520	14	72,240	48,160	8	41,280	27,520				30	1,54,800	1,03,200	258000	1323
3	Protection Wall/Retaining Wall @ Rs. 80,000/-	Nos.				3	1,44,000	96,000							3	1,44,000	96000	240000	1231
4	Water Harvesting @ Rs. 75,000/-					3	1,35,000	90,000							3	135000	90000	225000	1154
5	CC Check Dam @ Rs. 1,20,000/-					3	216000	1,44,000							3	216000	144000	3,60,000	1846
	Total			41,280	27,520	12	7,02,240	4,68,160		41,280	27,520				12	7,84,800	5,23,200	13,08,000	6708
			8	Ha		14	Ha		8	Ha.					30	Ha.			

Amount Allocated for Coverage for the period 2011-12 to 2014-15

1. Wage Component Rs 784800

2. Material Component Rs. 523200

Grand Total Rs. 1308000

Grand Total (Rupees Thirteen lakh eight thousand) only

President
Meka Adugre & Molmegre
VEC
Gasupara C&RD Block


L. N. Marak
Divisional Officer
Baghmara, Soil Cons. (C.C.) Division
Baghmara, South Garo hills.


Deputy Commissioner
South Garo Hills,
Baghmara, South Garo Hills, Baghmara

Secretary
Meka Adugre & Molmegre VEC
Gasupara C&RD Block
South Garo Hills.

**ABSTRACT OF PERSPECTIVE PLAN FOR CONVERGENCE OF NREGS WITH IWMP 2010-11
AT MEKA ADUGRE VILLAGE UNDER MIDDLE DABUA MICRO WATERSHED,SGH - IWMP-IV**

Name of Village :	Meka Adugre	Total Wage Component @ Rs 117/- per annum in the 1st year	Rs. 20,640
		Total Wage Component @ Rs 117/- per annum in the 2nd year	Rs. 3,36,120
		Total Wage Component @ Rs 117/- per annum in the 3rd year	Rs. 20640
		Total Wage Component @ Rs 117/- per annum in the 4th year	Rs. 0
Total No. of Job Card Holder :	11 Household	Total Wage Component	= Rs. 3,77,400

SI No	Activities	Units	PROJECT PERIOD												Total			Mandays to be Generated	
			2011-12			2012-13			2013-14			2014-15			Financial				
			Phy	Financial		Phy	Financial		Phy	Financial		Phy	Financial		Phy	Financial			
				Wages	Material		Wages	Material		Wages	Material		Wages	Material		Wages	Material		Total
1	Small Dug out Pond @ Rs. 75,000	Nos.				2	90,000	60,000							2	90,000	60,000	1,50,000	769
2	Rubber Plantation @ Rs. 8,600 per Ha.	Ha.	4	20,640	13,760	7	36,120	24,080	4	20,640	13,760				15	77,400	51,600	129000	662
3	Protection Wall/Retaining Wall @ Rs. 80,000/-	Nos.				1	48,000	32,000							1	48,000	32000	80000	410
4	Water Harvesting @ Rs. 75,000/-					2	90,000	60,000							2	90000	60000	150000	769
5	CC Check Dam @ Rs. 1,20,000/-					1	72000	48,000							1	72000	48000	3,60,000	615
	Total			20,640	13,760	6	3,36,120	2,24,080		20,640	13,760				6	3,77,400	2,51,600	8,69,000	3225
			4	Ha		7	Ha		8	Ha.					30	Ha.			

Amount Allocated for Coverage for the period 2011-12 to 2014-15

1. Wage Component	Rs	377400
2. Material Component	Rs.	251600
Grand Total	Rs.	629000

Grand Total (Rupees Six lakhs twenty nine thousand) only

President
Meka Adugre VEC
Gasuapara C&RD Block
South Garo Hills.


L. N. Marak
Divisional Officer
Baghmara, Soil Cons. (C.C.) Division
Baghmara, South Garo hills.


Deputy Commissioner
South Garo Hills,
Baghmara
Deputy Commissioner
South Garo Hills, Baghmara

Secretary
Meka Adugre VEC
Gasuapara C&RD Block
South Garo Hills.

**ABSTRACT OF PERSPECTIVE PLAN FOR CONVERGENCE OF NREGS WITH IWMP 2010-11
AT MOLMEGRE VILLAGE UNDER MIDDLE DABUA MICRO WATERSHED,SGH - IWMP-IV**

Name of Village : Molmegre

Total No. of Job Card Holder : 11 Household

Total Wage Component @ Rs 117/- per annum in the 1st year Rs. 20,640
 Total Wage Component @ Rs 117/- per annum in the 2nd year Rs. 3,66,120
 Total Wage Component @ Rs 117/- per annum in the 3rd year Rs. 20640
 Total Wage Component @ Rs 117/- per annum in the 4th year Rs. 0
Total Wage Component = Rs. 4,07,400


Sl No	Activities	Units	PROJECT PERIOD												Total			Mandays to be Generated	
			2011-12			2012-13			2013-14			2014-15			Financial				
			Phy	Financial		Phy	Financial		Phy	Financial		Phy	Financial		Phy	Financial			
				Wages	Material		Wages	Material		Wages	Material		Wages	Material		Wages	Material		Total
1	Small Dug out Pond @ Rs. 75,000	Nos.				1	45,000	30,000							1	45,000	30,000	75,000	385
2	Rubber Plantation @ Rs. 8,600 per Ha.	Ha.	4	20,640	13,760	7	36,120	24,080	4	20,640	13,760				15	77,400	51,600	129000	662
3	Protection Wall/Retaining Wall @ Rs. 80,000/-	Nos.				2	96,000	64,000							2	96,000	64000	160000	821
4	Water Harvesting @ Rs. 75,000/-					1	45,000	30,000							1	45000	30000	75000	385
5	CC Check Dam @ Rs. 1,20,000/-					2	144000	96,000							2	144000	96000	3,60,000	1230
	Total			20,640	13,760	6	3,66,120	2,44,080		20,640	13,760				6	4,07,400	2,71,600	7,99,000	3483
			4	Ha		7	Ha		8	Ha.					30	Ha.			

Amount Allocated for Covergence for the period 2011-12 to 2014-15

1. Wage Component Rs 407400
 2. Material Component Rs. 271600
Grand Total Rs. 679000

Grand Total (Rupees Six lakhs seventy nine thousand) only

President
Molmegre VEC
Gasuapara C&RD Block
South Garo Hills.


L. N. Marak
 Divisional Officer
 Baghmara, Soil Cons. (C.C.) Division
 Baghmara, South Garo Hills.


 Deputy Commissioner
 South Garo Hills,
 Baghmara.

Secretary
Molmegre VEC
Gasuapara C&RD Block
South Garo Hills.

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

1	2	3	4	5	6		7	8	9	10				11				
					From	To				Area (ha) of the projects				Area details (ha) (falling within the projects)				
SL No	Name of State	Name of Districts	Names of Projects	Year of sanction	Project duration (dd/mm/ yyyy)		Area of the projects	Project cost (Rs. In lakh)	Names of Micro watersheds & Code nos. (as per DoLR's unique codification)	Cultivated rainfed area	Cultivated irrigated area	Uncultivated wasteland		Pvt. Agri. Land	Forest land	Community land	Others (pl. specify)	Total area (ha)
											a) Temporary fallow	b) Permanent						
1	Meghalaya	South Garo Hills	South Garo Hills – IWMP IV	2010-11	2010-11	2014-15	500 Ha	75 Lakhs	Middle Dabua Nala	137.8	Nil	362.2	-	11	86	145	258	500

Fund provision for the IWMP projects from all sources:

1	2	3		4										5
District	Name of Projects	IWMP Fund		Funds from other sources in addition to IWMP funds										Total
				Convergence funds		PPP		Community		Institutional finance		Others (Pl. specify)		
		Central Share	State Share	Name of Scheme	Amount (Lakhs)	Name of private sector	Financial contribution	Name	Financial contribution	Name	Financial contribution	Name	Financial contribution	
South GaroHills	South Garo Hills – IWMP IV	67.50 lakhs	7.5 lakhs	NREGS	7.848	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	82.848 Lakhs

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

1	2	3	4	5				6				
Sl. No.	Names of States	Name of Districts	Names of Projects	Distt. Agency's Project Account details				Watershed Committee (WC) account details:				
				Name of the Bank and Branch where project account has been opened	Account Number (to be obtained confidentially)	Account type (Savings/ Current/ Others)	Name & Designation 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 confidentially)	Account type (Savings/ current others)	Name & Designation of authorized persons who operate the account.
1	Meghalaya	South Garo Hills	South Garo Hills – IWMP IV	State Bank of India, Baghmara Branch	-	Saving	L.N Marak, DS&WCO	Middle Dabua Nala, Watershed Committee	SBI, Baghmara	31683066655	Saving	Chairman W.C, Secretary W.C, Project Leader / WDT

Details of Convergence of IWMP with other Schemes:

	1	2	3	4	5	6	7
Sl. No.	District	Names of projects	Names of Departments with Schemes converging with IWMP	Fund made available to IWMP due to convergence (Rs. in lakh)	Name of activity/task/structure undertaken with converged funds	Reference no. of activity/ task/ structure in DPR [@]	Level at which decision for convergence was taken ^{\$}
					(a) Structures (b) livelihoods (c) Any other (pl. specify) [#]		
1	South Garo Hills	South Garo Hills – IWMP IV	* Community Rural Development Department NREGS	7.848	(a)Dug-out Pond 3 Nos (b)Rubber Plantation 30 Ha (c)Protection Wall/Retaining Wall 3 Nos (d) C.C Check Dam 3 Nos (e) Water Harvesting 3 Nos	-	Block Level & District Level

Note: Meka Adugre and Molmegre village

(a)Dug-out pond 3 No.s	Wages-1.35 Lakhs;	Material-0.90 Lakhs;
(b)Rubber Plantation 30 Ha	Wages-1.548 Lakhs;	Material-1.032 Lakhs;
(c)Protection Wall/Retaining Wall 3 nos	Wages-1.44 Lakhs;	Material-0.90 Lakhs;
(d)CC. Check Dam 3 nos	Wages-2.16 Lakhs;	Material-1.44 Lakhs;
(e)Water Harvesting 3 nos	Wages-1.35 Lakhs;	Material- 0.90 Lakhs;

Public-Private Partnership in the IWMP projects: NIL

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

* 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. No	State	Name of the Training Institute	Full Address with contact no., website & e-mail	Name & Designation of the Head of Institute
Refer-ence Year	No. of trainings assigned	No. of trainees to be trained	No. of trainings conducted	No. of trainees trained								
1	Meghalaya	NIRD (NER)	Guwahati	Director	Central Govt.	Remote Sensing, Rural Devt.	NA	2011-12 & 2012-13	3	20	-	-
2		SIRD	Nongsder	Director	State Govt.	Capacity Building	NA	2011-12 & 2012-13	3	15	-	-
3		RRTC	Umran	Director	Don-Bosco	Agri-Horti, Animal Husbandry, Entrepreneurship	NA	2011-12 & 2012-13	3	25	-	-
4		ICAR	Umiam	Director	Central Govt.	Do	NA	2011-12 & 2012-13	3	30	-	-
5		NEHU	Tura, Campus	Director	State Govt.	Academic and Research	NA	2011-12 & 2012-13	3	15	-	-
6		CTI	Byrnihat	Jt. Director	State Govt.	Watershed management	NA	2011-12 & 2012-13	3	20	-	-

- 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 – 11as on 31/03/2011 (dd/mm/yyyy)*

1	2	3	4	5	6		7	
Project Stakeholders	Total no. of persons	No. of persons trained so far	No. of persons to be trained during current financial year	No. of persons trained during current financial year	Sources of funding for training		Funds utilized (Lakhs)	
					a) DoLR	b) Any other (Pl. specify)	a) DoLR	b) Any other (Pl. specify)
SLNA					3.75	-	1.50	-
DRDA/ZP cell			25 No.s	-				
PIAs			25 Nos.	-				
WDTs			20 Nos.	-				
UGs			20 Nos.	-				
SHGs			30 Nos.	-				
WCs			20 Nos.	-				
GPs			15 Nos.	-				
Community			250 Nos.	-				
Others (Pl. specify)								

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

	1	2	3	4	5
	Activity	Executing agency	Estimated expenditure (Rs.)	Expenditure incurred (Rs.)	Outcome (may quantity, wherever possible)
1.	Awareness	S&WC (CC) Division	0.75	0.75	
2.	Capacity Building	S&WC (CC) Division			

CHAPTER VII
EXPECTED OUTCOME

CHAPTER VII EXPECTED OUTCOME

Table 7.1 Employment related outcomes:

Sl No	Name of Villages	1										2				
		Wage employment										Self employment				
		No. of mandays					No. of beneficiaries					No. of beneficiaries				
		SC	ST	Others	Women	Total	SC	ST	Others(Men)	Women	Total	SC	ST	Others	Women	Total
1.	Meka Adu		100 %	5603	3734	9337		100 %	26	24	50		100 %	32	21	53
2.	Molmegre		100 %	5602	3734	9336		100 %	29	34	63		100 %	31	20	51

Table 7.2 Migration Details:

1	2	3	4	5	6	7	8	9	10	
Names of the Districts	Names of Projects	Name of village	No. of persons migrating	No. of days per year of migration	Major reason(s) for migrating	Distance of destination of migration from the village (km)	Occupation during migration	Income from such occupation (Rs. in lakh)	For reduced migration identify major activities of IWMP responsible	
									(a) Structures	(b) Livelihoods
				N	I	L				

* From column no. 2, total number of States; from column no. 3, total no. of Districts; from column no. 4, total no. of projects; from column no. 5, total no. of villages; from column no. 6, total no. of persons migrating; from column no. 7, average no. of days for annual migration; from column no. 9, average distance of migration from the village and from 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
Wages		Training		Livelihoods		Total (Rs. in lakh)
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)	
7469	7.469	40	1.875	40 No.s	10.65	19.99

* 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	Beneficiary details (no. of families)				User Charges (Rs.)
						SC	St	Others	Total	
South Garo Hills District	SGH-IWMP-IV	Meka Adugre	Community Forest	Fw	6 months	-	11	-	11	Nil
		Molmegre	Community Forest	Fw	6 months	-	11	-	11	Nil

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

@ In column no. 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
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 other than indicated above	(please specify)

Table 7.5 Water related outcomes:

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

1	2	3	4	5	6	7	8
Names of Districts	Names of Projects	Sources	Pre-Project level	Mid-term project level	Post-Project level	Increase/decrease (Col. 8 – Col. 6)	Remarks
South Garo Hills District	SGH-IWMP IV	Open wells	1.5	1.4	1.3	0.2	-
		Bore wells	-	-	-	-	-
		Others (specify) Springs	very poor poor	poor	Good	Increased	-

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

Table 7.5.2 Status of Drinking water:

1	2	3			4			5
District	Name of the project	Availability of drinking water (no. of months in a year)			Quality of drinking water			Comments
		Pre-project	Post-project	Change in availability	Pre-project	Post-project	Change in quality	
South Garo Hills District	SGH-IWMP IV	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			
District	Name of the project	Name of major crop	Water savings in cu.m.			
			through water saving devices ^{\$}	through water conserving agronomic practices [#]	Any other (pl specify)	Total
South Garo Hills District	SGH-IWMP IV					

* 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 Kharif crop area and yield in the project areas:

1	2	3	4						5						6					
			Pre-project						Mid-term						Post-project					
			Area (ha)		Average Yield (Qtl) per ha.		Total Production (Qtl)		Area (ha)		Average Yield per ha (Qtl)		Total Production (Qtl)		Area (ha)		Average Yield per ha (Qtl)		Total Production (Qtl)	
Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	
South Garo Hills District	SGH-IWMP IV	Rice	-	11	-	15	-	165	-	10	-	15	-	150	-	10	-	20	-	200
		Maize	-	11.9	-	6	-	71.4	-	8	-	6	-	48	-	6	-	8	-	48
		Ginger	-	11.9	-	25	-	297.5	-	8	-	25	-	200	-	6	-	29	-	174
		Turmeric	-	11.9	-	30	-	357	-	8	-	30	-	240	-	6	-	33	-	198
		Chilli	-	11.9	-	4	-	47.6	-	8	-	4	-	32	-	6	-	7	-	42
		Tapioca	-	11.9	-	30	-	357	-	8	-	30	-	240	-	6	-	33	-	198
		Brinjal	-	11.9	-	20	-	238	-	8	-	20	-	160	-	6	-	23	-	138
		Cowpea	-	11.9	-	15	-	178.5	-	8	-	15	-	120	-	6	-	18	-	108
		Pumpkin	-	11.9	-	50	-	595	-	8	-	50	-	400	-	6	-	54	-	324
		Colocassia	-	11.9		35	-	416.5		8		35	-	280	-	6	-	39	-	234
		Cucumber	-	11.9		35	-	416.5		8		35	-	280	-	6	-	38	-	228
				130		265		34450												

Note : The area of jhum crops decreases in the mid-term and post project because of converting it to permanent plantation (Rubber and Arecanut)

* 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 SI No.	2 Names of States	3 Names of the Districts	4 Name of Projects	5 Name of crops	6						7						8					
					Pre-project						Mid-term						Post-project					
					Area (ha)		Average Yield (Qtl) per ha.		Total Producti on (Qtl)		Area (ha)		Average Yield per ha (Qtl)		Total Production (Qtl)		Area (ha)		Average Yield per ha (Qtl)		Total Production (Qtl)	
Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.			
	Meghalaya	South Garo Hills District	SGH-IWMP IV	Cabbage	-	-	-	-	-	-	3	-	10	-	30	-	5	-	15	-	75	-
				Knol khol	-	-	-	-	-	-	4	-	90	-	360	-	6	-	25	-	570	-
				Mustard	-	-	-	-	-	-	3	-	8	-	24	-	5	-	10	-	50	-
				Raddish	-	-	-	-	-	-	4	-	80	-	320	-	6	-	86	-	516	-
				Cauliflower	-	-	-	-	-	-	5	-	10	-	50	-	7	-	57	-	399	-
			Total for the District																			

* 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						8						
					Pre-project						Mid-term						Post-project						
					Area (ha)		Average Yield (Qtl) per ha.		Total Production (Qtl)		Area (ha)		Average Yield per ha (Qtl)		Total Production (Qtl)		Area (ha)		Average Yield per ha (Qtl)		Total Production (Qtl)		
Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.		
	Meghalaya	South Garo Hills District	SGH-IWMP IV	Maize	-	11.9	-	6	-	71.4	3	6	8	7	24	42	5	3	9	8	45	24	
			Total for the District																				

* 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 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 fodder (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
South Garo Hills District	SGH-IWMP IV	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		
			Existing area tree cover (ha)			Achievement (ha)		
District	Name of project	Duration of Project	Source/Name of report	Year of reference	Area already under forest/vegetative cover	Forest/vegetative cover area proposed to be covered under IWMP	Forest/vegetative cover area actually covered under IWMP	Change in forest/vegetative cover area
South Garo Hills District	SGH-IWMP IV	5 yrs	LULC Map, NESAC, Umiam	2005-06	86 Ha	35 Ha	35 Ha	35 Ha

* 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		
District	Name of project	Duration of Project	Existing area under horticulture (ha)			Achievement (ha)		
			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
South Garo Hills District	SGH-IWMP IV	5 yrs			29	75	75	75

* 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		
District	Name of project	Duration of Project	Existing area under fodder (ha)			Achievement (ha)		
			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
South Garo Hills District	SGH-IWMP IV	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 Names of the Districts	2 Name of Projects	3 Type of Animal	4			5			6			7 Remarks
			Pre-project			Mid-term			Post-project			
			No.	Yield	Income	No.	Yield	Income	No.	Yield	Income	
South Garo Hills District	SGH-IWMP IV	Cattle	69	3312	4.96	71	3408	5.11	80	3840	5.76	
		Goat	41	615	1.53	46	690	1.72	55	825	2.06	
		Poultry	205	184.5	0.23	220	198	0.25	260	234	0.3	
		Piggery	349	8376	13.4	355	8520	13.63	390	9360	14.97	
	Total for all projects											
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.

Table 7.7.2 Details of other livelihoods created for landless people:

1	2	3	4	5				6	7					8					
District	Project	Name of activity	Fund required for the activity (Rs.)	Sources of funding (Rs.)				Actual Expenditure incurred on activity (Rs.)	No. of beneficiaries trained					No. of beneficiaries taking up activity					
				Project Fund	Beneficiary	Others (pl. specify)	Total		SC	ST	Others	Women	Total	SC	ST	Others	Women	Total	
South Garo Hills District	SGH-IWMP IV	Tailoring	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		Basket - making	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Stabilized Mud - making	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Vermi - composting	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Kitchen - gardening	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

(Contd.)

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

Table 7.7.3 Details of other livelihoods created for landless people:

9		10	11				12
No. of persons employed indirectly in the activity		Annual increase in income due to activity (Rs.)	Impact of livelihoods programme				Any other information (pl. Specify)
			Migration (No. of beneficiaries)		Development of backward-forward linkages		
Total	Grand Total (8+9)		Pre-project	Post-project	Pre-project	Post-project	

Table 7.7.4 Details of other livelihoods created for farmers:

1	2	3	4	5				6	7				8			
District	Project	Name of activity	Fund required for the activity (Rs.) in lakhs	Sources of funding (Rs.) in Lakhs				Actual Expenditure incurred on activity (Rs.)	No. of farmers trained				No. of farmers taking up activity			
				Project Fund	Beneficiary	Others (pl. specify)	Total		S F	MF	LF	Total	S F	MF	LF	Total
South Garo Hills District	SGH-IWMP IV	1.Pisciculture	1.26	1.20	0.06	-	1.26	1.20	-	30	-	30	-	12	-	12
		2.Tailoring	0.84	0.80	0.04	-	0.84	0.80	-	40	-	40	-	10	-	10
		3.Carpentry	0.3675	0.35	0.0175	-	0.3675	0.35	-	45	-	45	-	7	-	7
		4.Kitchen Gardening	0.4725	0.45	0.0225	-	0.4725	0.45	-	50	-	50	-	70	-	70
		5.Weaving	2.34	2.80	0.14		2.34	2.80	-	45	-	45	-	10	-	10
		6. Piggery	3.465	3.3	0.165		3.465	3.3		60		60		20		20
		7. Poultry	3.465	3.3	0.165		3.465	3.3		65		65		80		80
		8.Compost pit	0.1575	0.15	0.0075		0.1575	0.15		60		60		10		10
		9.Duckery	1.8375	1.75	0.0875		1.8375	1.75		65		65		70		70
		10.Betelnut Processing	2.1	2.0	0.1	-	2.1	2.0		55		55		40		40

* 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 activity (Rs.)	Impact of livelihoods programme				Any other information (pl. Specify)
			Migration (No. of beneficiaries)		Development of backward-forward linkages		
Total	Grand Total (8+9)		Pre-project	Post-project	Pre-project	Post-project	
(i) 10	22	60,000	-	-	-	-	-
(ii) 20	30	50,000	-	-	-	-	-
(iii) 15	22	35,000	-	-	-	-	-
(iv) 40	110	60,000	-	-	-	-	-
(v) 10	20	45,000					
(vi) 20	40	55,000					
(vii) 40	120	40,000					
(viii) 10	20	35,000					
(ix) 30	100	40,000					
(x) 15	55	35,000					

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.)
South Garo Hills District	SGH-IWMP IV	(A) Backward linkages			
		(i) Seed certification	-	-	-
		(ii) Seed supply system	-	-	-
		(iii) Fertilizer supply system	-	-	-
		(iv) Pesticide supply system	-	-	-
		(v) Credit institutions	-	1	2
		(vi) Water supply	-	1	2
		(vii) Extension services	-	2	5
		(viii) Nurseries	-	1	2
		(ix) Tools/machinery suppliers	-	-	2
		(x) Price Support system	-	-	-
		(xi) Labour	-	-	-
		(xii) Any other (please specify)	-	-	-
		(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	
	Meghalaya	Status of water table		Very poor - poor	Good		
		Ground water structures repaired/ rejuvenated		-	10 nos.		
		Quality of drinking water		Moderate potable	Improved		
		Availability of drinking water		Insufficient	Sufficient		
		Increase in irrigation potential		-	-		
		Change in cropping/ land use pattern		-	-		
		Area under agricultural crop					
		i	Area under single crop	Ha	11	15	
		ii	Area under double crop	Ha.	5	10	
		iii	Area under multiple crop	Ha.	5	20	
			Net increase in crop production area	Ha.	-	24	
			Increase in area under vegetation	Ha.	201	236	
			Increase in area under horticulture	Ha.	29	104	
			Increase in area under fuel & fodder		-	-	
			Increase in milk production		-	-	
			No. of SHGs	Nos.	-	10	
			Increase in no. of livelihoods	Nos.	-	15 nos.	
			Increase in income	Rs in lakhs	0.25 – 0.35	0.35- 0.45	
			Migration		-	-	
			No. of school going children	Nos.	20	40	
			SHG Federations formed		-	-	
			Credit linkage with banks	Nos.	-	5	
			Resource use agreements		-	3	
		WDF collection & management	Nos.	-	1		
		Summary of lessons learnt	May be attached as a separate file				

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
South Garo Hills District	SGH-IWMP IV	Middle Dabua Nala	As per Treatment Plan	58.5 lakhs	87.75 lakhs	58.5 lakhs	-	1:1.5	-

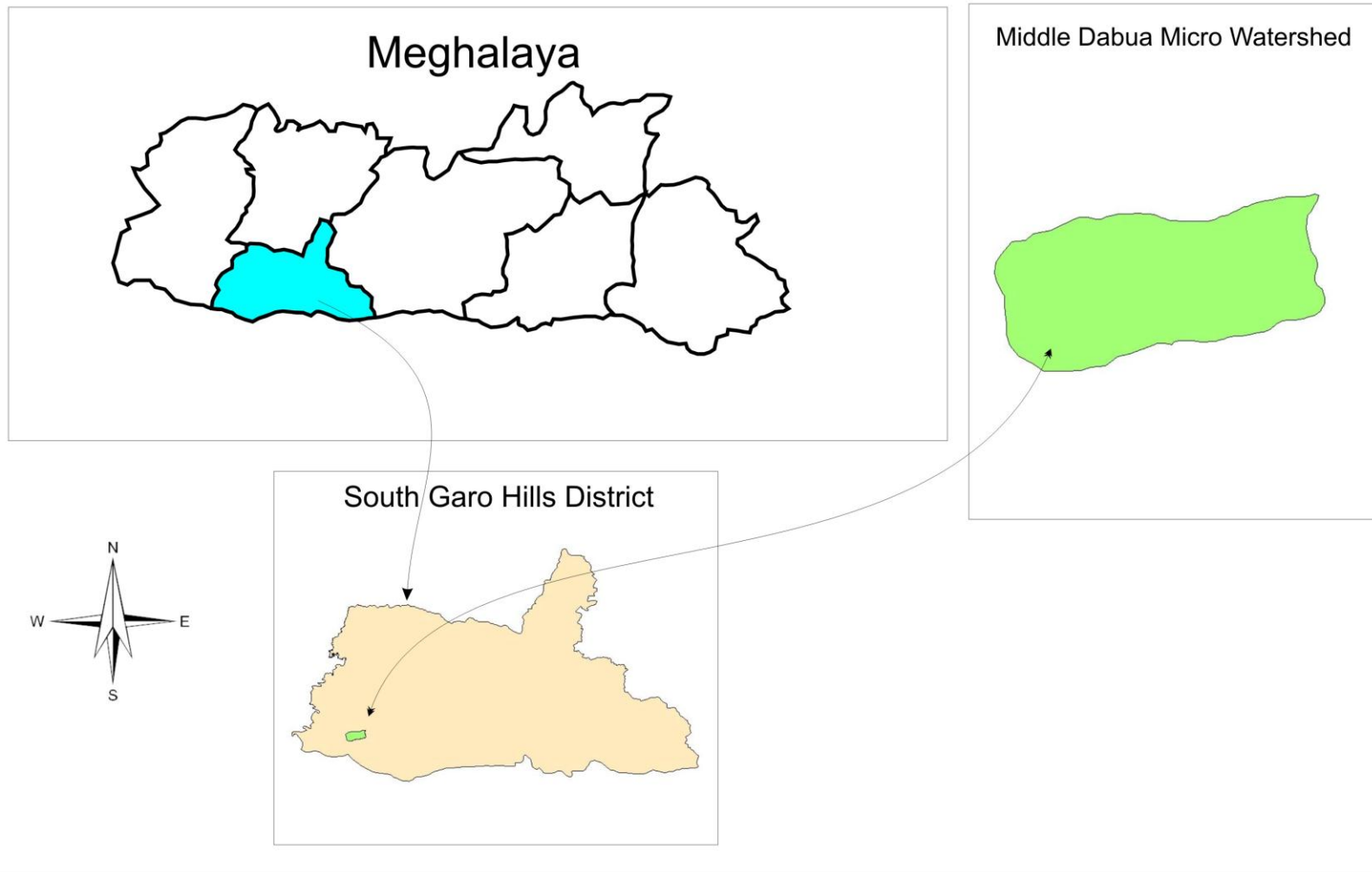
* from column no. 2, total no. of States implementing the programme, from column no. 3, total no. of Districts; from Column no. 4, no. of projects, from column no. 5, no. of WCs, from column no. 6, no. of structures/ activities, from column no. 7 to 10, category-wise# totals, may be mentioned at the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

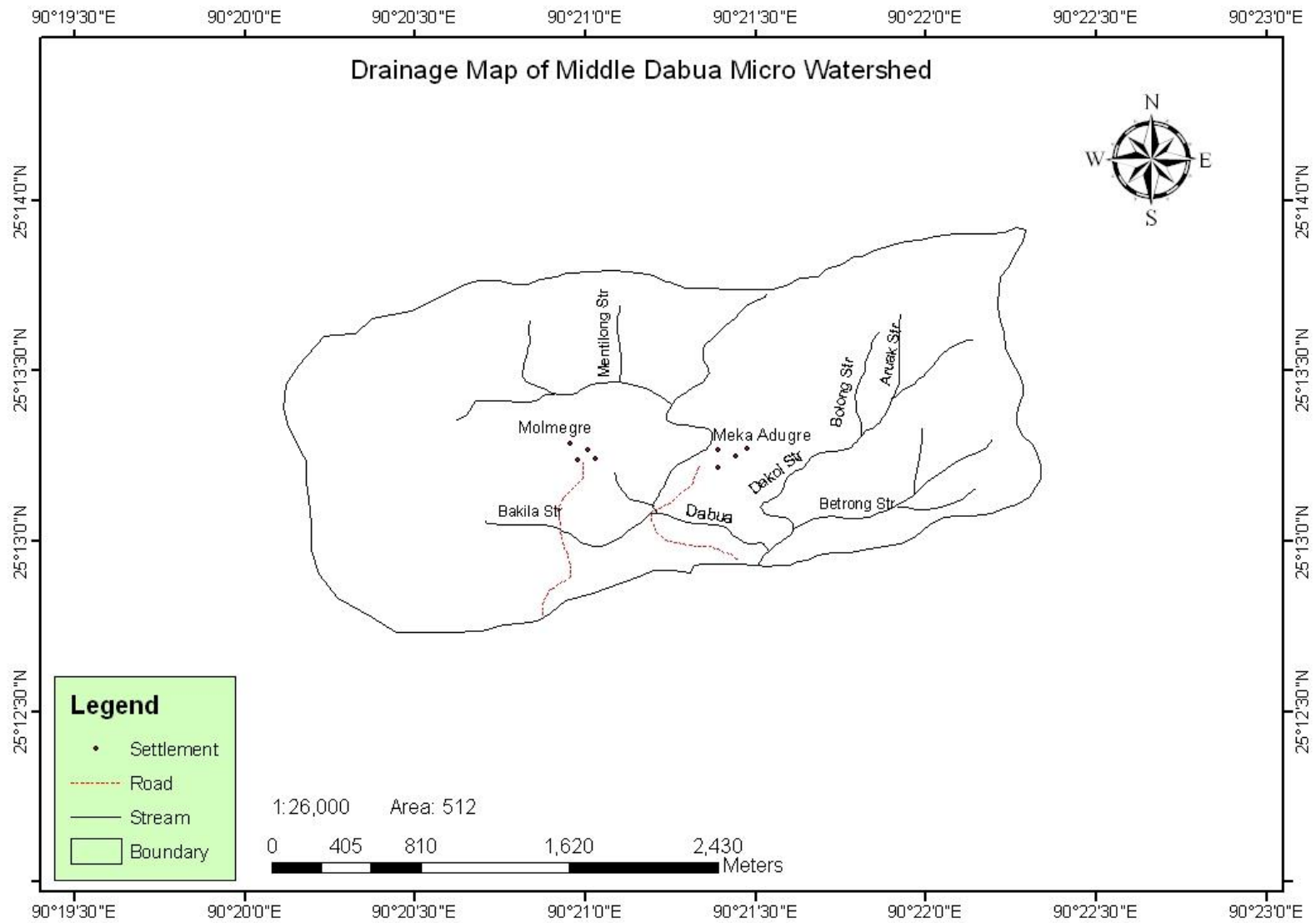
[#] B:C ratio more than 1 – cost effective
less than 1 – Not cost effective

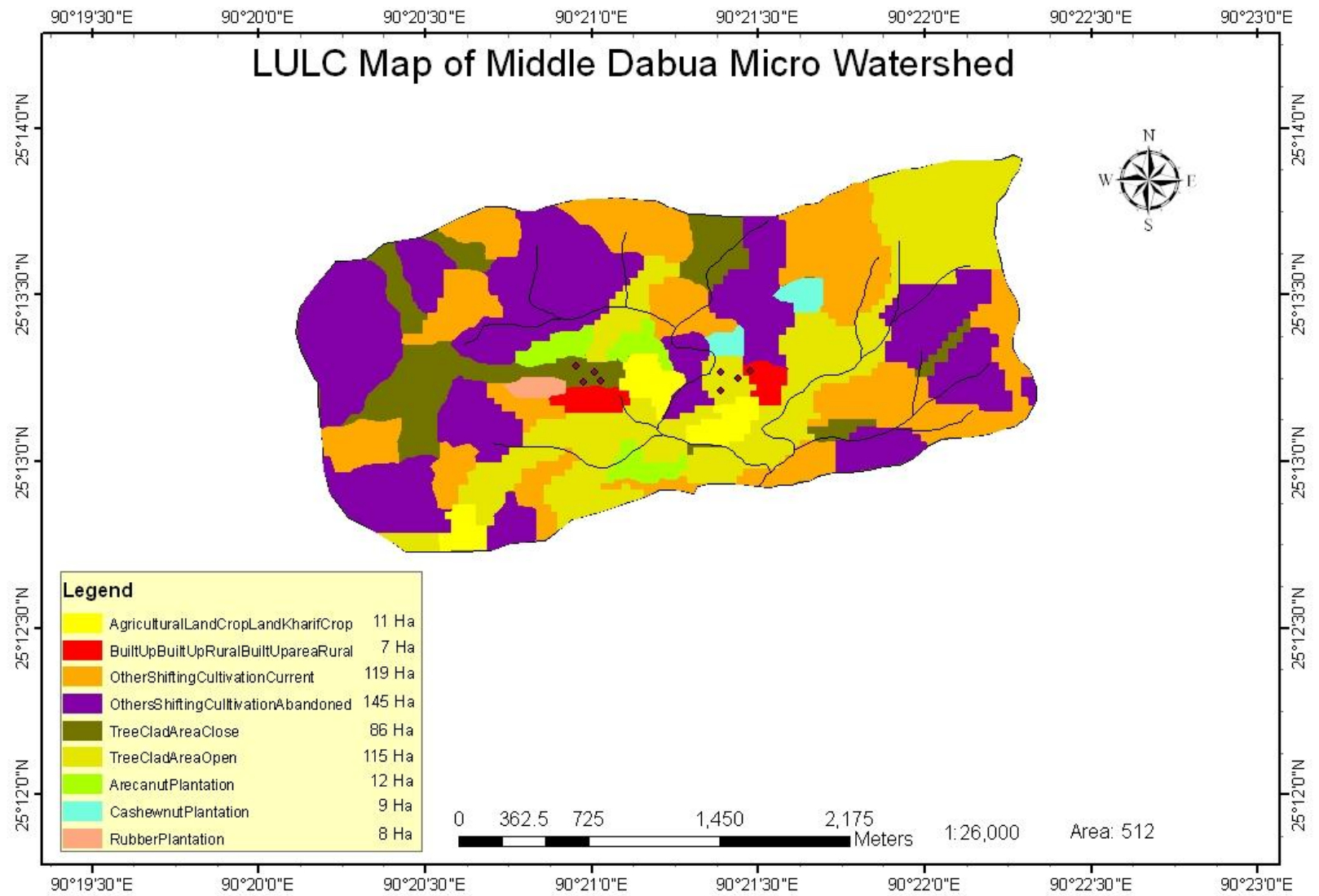
ANNEXURE I

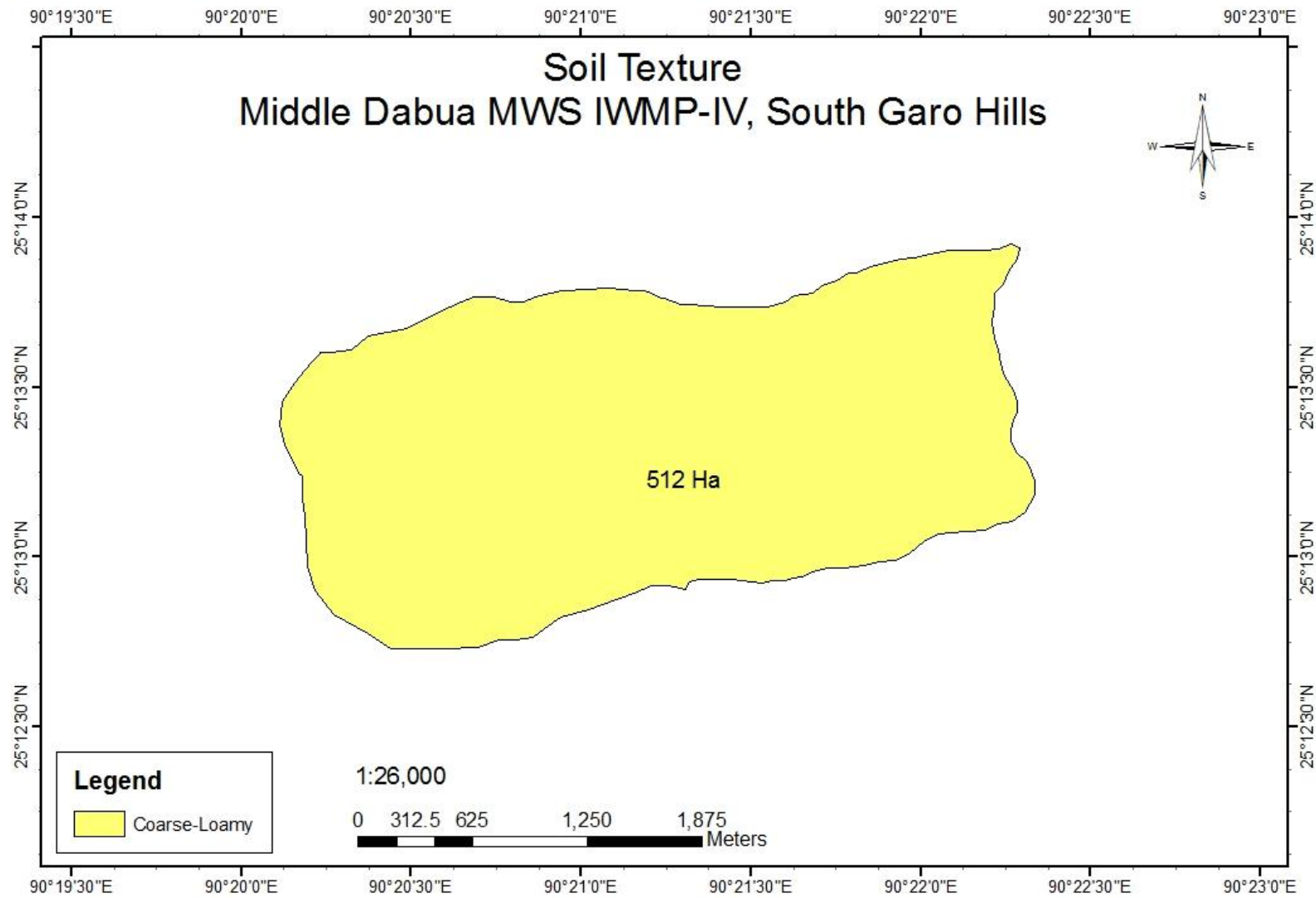
MAPS

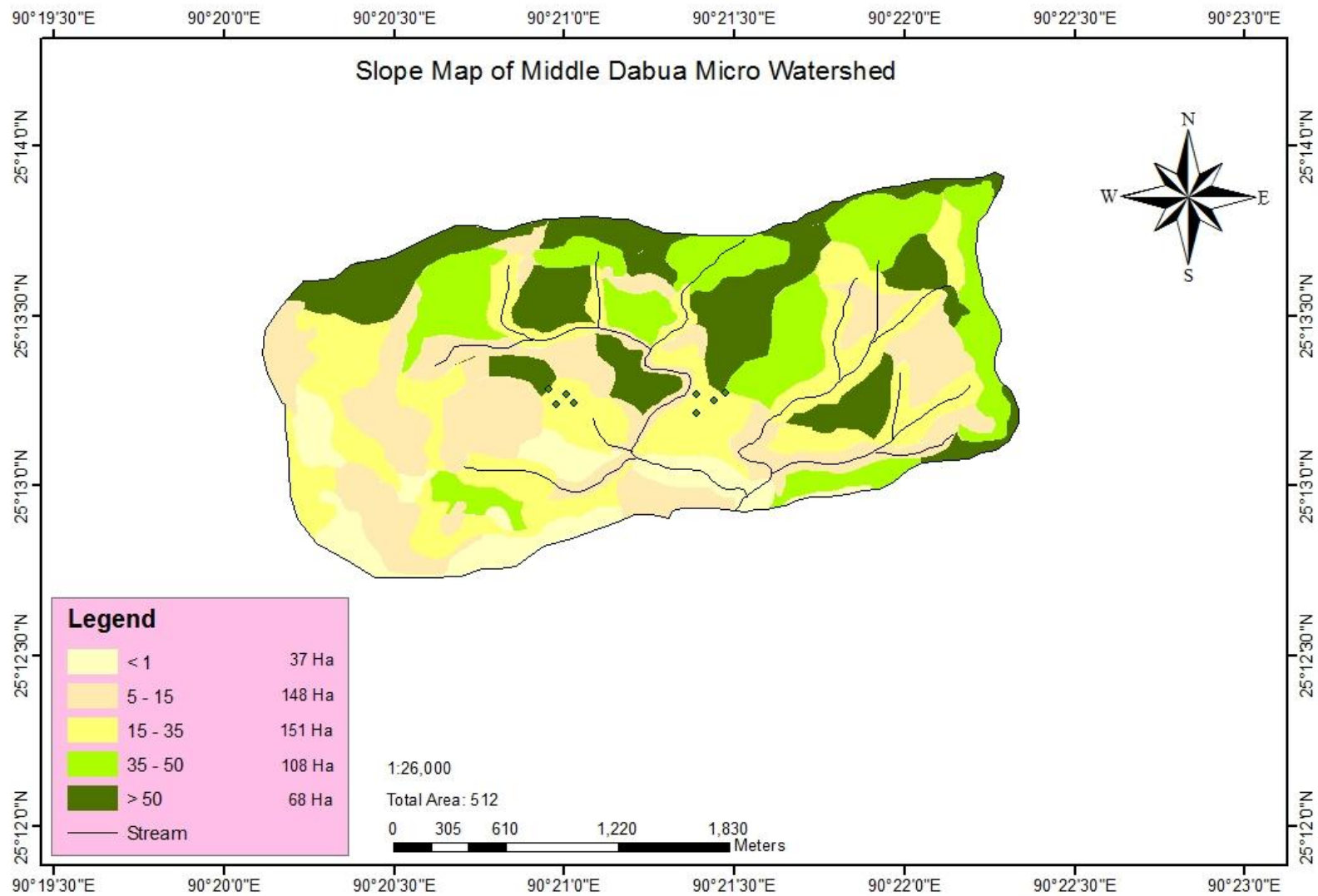
Index Map of Middle Dabua MWS under IWMP-IV
South Garo Hills District

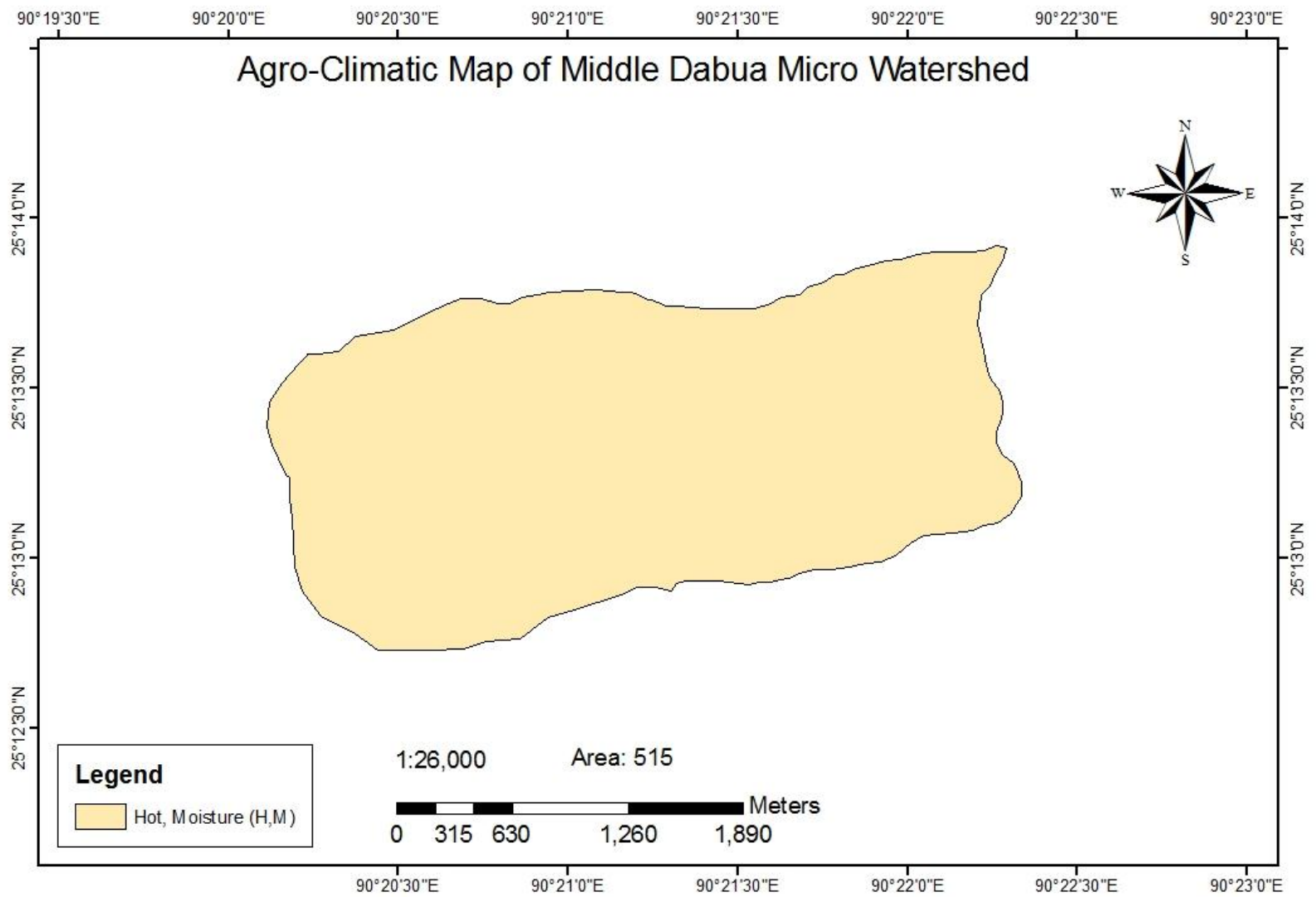


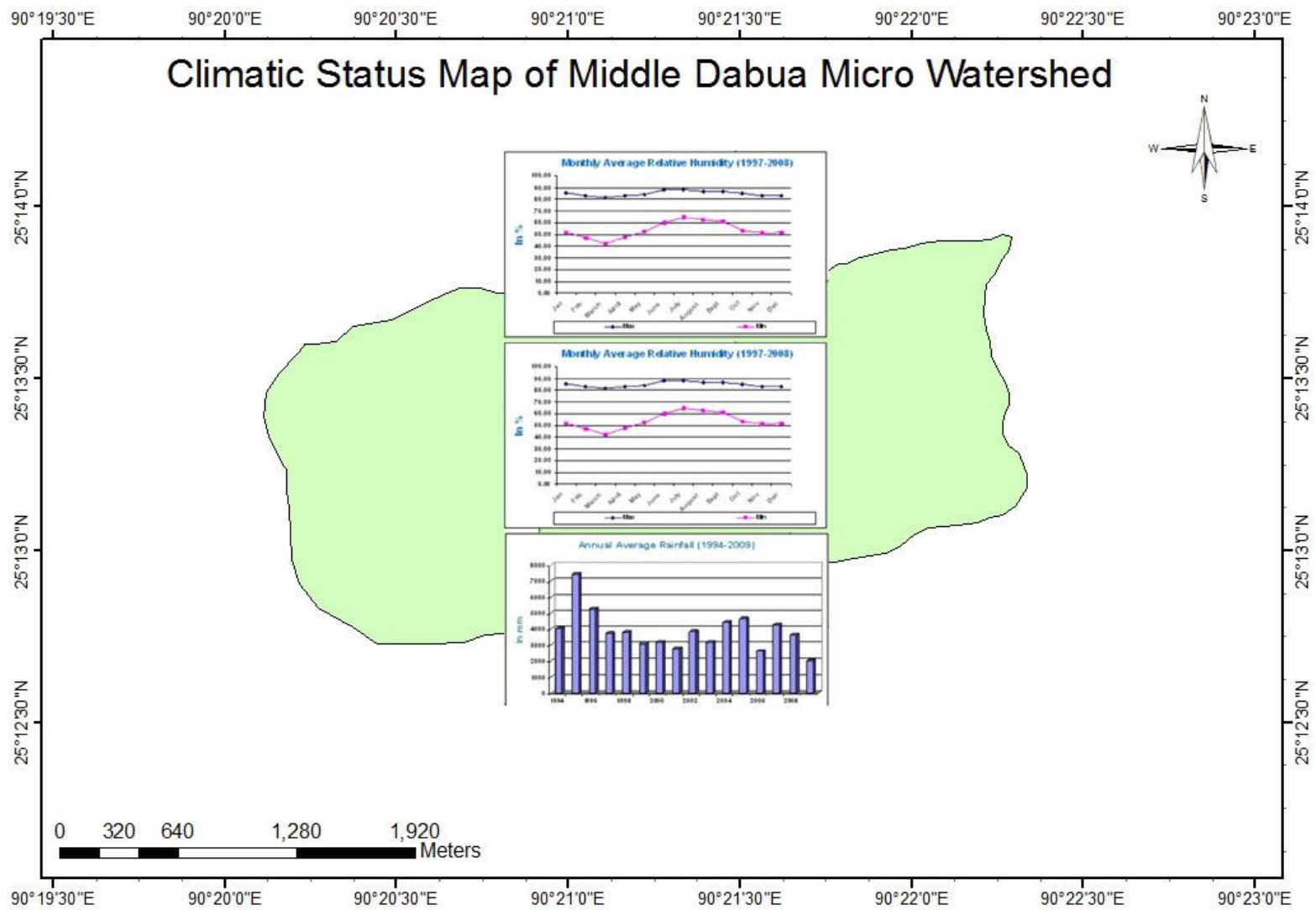


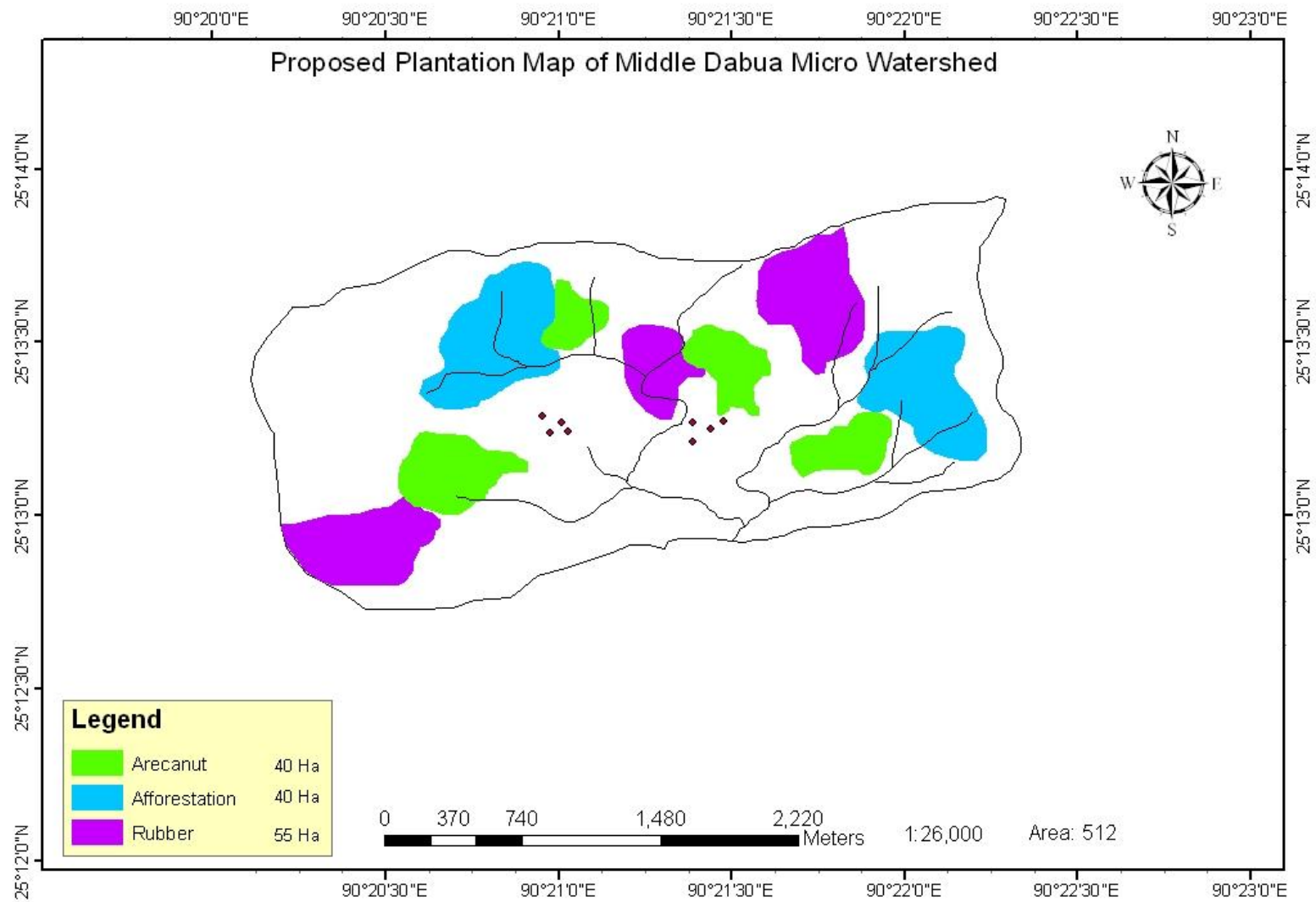


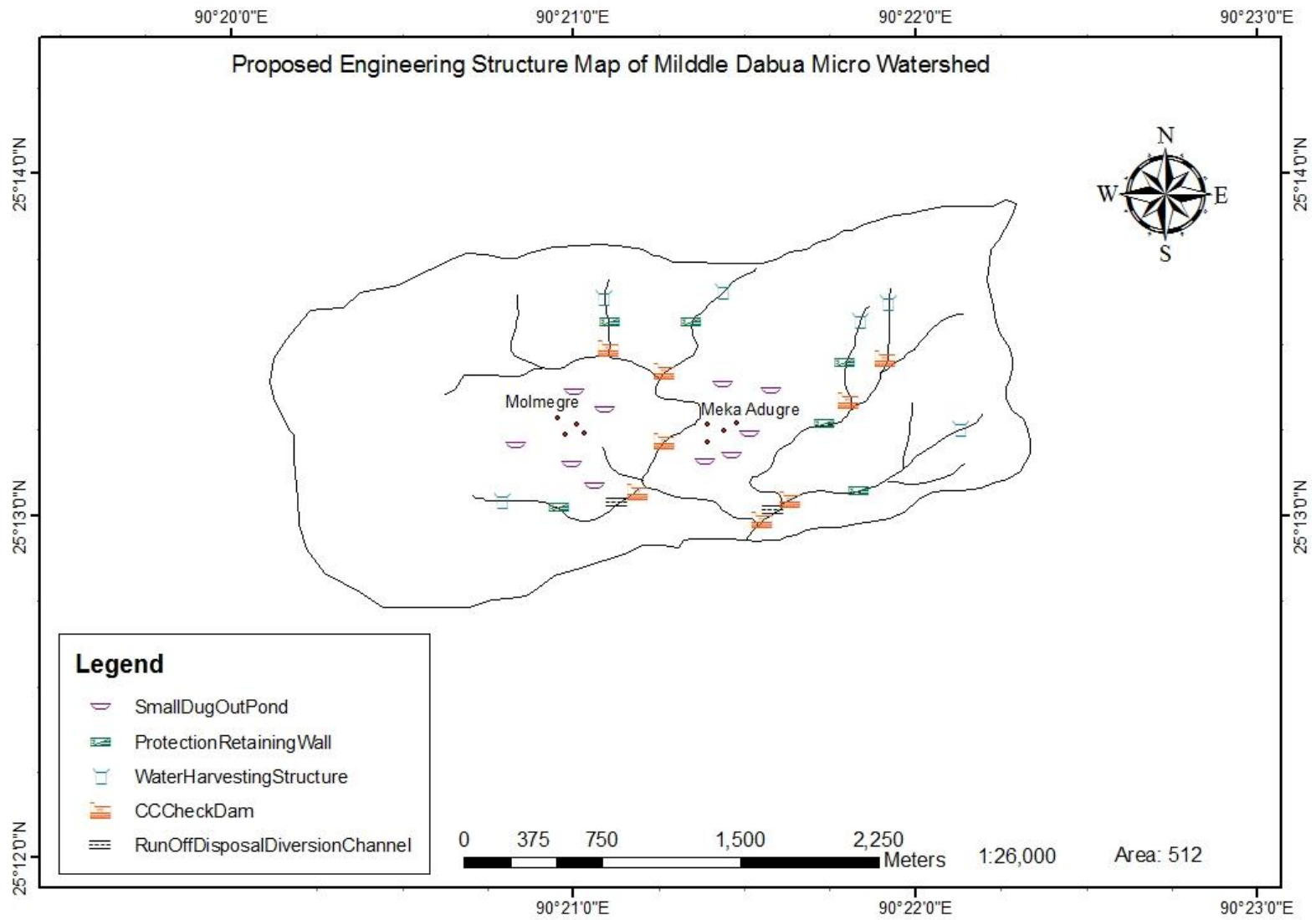












ANNEXURE II

SOCIO-ECONOMIC SURVEY DETAILS

SOCIO ECONOMIC SURVEY

NAME OF THE VILLAGE: - MEKA ADU

Sl.No	Name of the Head of the Family	Male	Female	Total	Occupation	Land Holding (Area in Ha)	Live Stock				Total Annual Income
							Cattle	Piggery	Goat	Poultry	
1	2	3	4	5	6	7	8	9	10	12	13
1	Shri. Polindro Sangma	7	3	10	Farmer	2	25	4	10	15	39,000.00
2	Shri. Suniram Marak	1	2	3	Farmer	1	5	2	0	21	35,000.00
3	Shri. Trewinson Marak	5	2	7	Farmer	0.5	4	1	0	11	30,000.00
4	Shri. Arben Marak	1	1	2	Farmer	1	0	4	7	16	31,000.00
5	Smt. Grebilla Marak	0	3	3	Farmer	0.75	6	3	0	22	33,000.00
6	Smt. Kreili Marak	1	1	2	Farmer	1	0	5	7	19	30,000.00
7	Shri. Gritson Sangma	2	1	3	Farmer	2	8	2	0	24	34,000.00
8	Shri. Winjing Marak	3	1	4	Farmer	0.5	7	4	6	12	31,000.00
9	Shri. Prodip Marak	4	6	10	Farmer	1	5	2	7	26	36,000.00
10	Shri. Rajib Marak	1	2	3	Farmer	3	4	5	0	28	

											38,000.00
11	Shri. John Sangma	1	2	3	Farmer	2	5	2	4	11	35,000.00
	TOTAL	26	24	50		14.75	69	34	41	205	3,72,000.00

SOCIO ECONOMIC SURVEY

NAME OF THE VILLAGE: - MOLMEGRE

Sl.No	Name of the Head of the Family	Male	Female	Total	Occupation	Land Holding (Area in Ha)	Live Stock				Total Annual Income
							Cattle	Piggery	Goat	Poultry	
1	2	3	4	5	6	7	8	9	10	12	13
1	Shri. Repson Sangma	5	4	9	Farmer	2	6	4	8	11	35,000.00
2	Shri. Sonjing Marak	3	3	6	Farmer	3	6	3	6	15	34,000.00
3	Shri. Pilsin Marak	3	4	7	Farmer	1	6	6	4	19	32,000.00
4	Shri. Silipson Sangma	3	4	7	Farmer	0.5	10	4	2	23	31,000.00
5	Shri. Kriston Marak	3	4	7	Farmer	1	7	3	0	24	32,000.00
6	Shri. Martin Sangma	2	3	5	Farmer	2	10	2	5	22	35,000.00
7	Shri. Koruns Sangma	3	4	7	Farmer	0.8	15	0	0	29	36,000.00
8	Shri. Dinish Marak	3	4	7	Farmer	0.6	4	3	5	17	32,000.00
9	Smt. Kimji Marak	1	2	3	Farmer	2	0	4	2	11	30,000.00
10	Shri. Niksrang Momin	2	1	3	Farmer	0.5	2	4	5	18	

											35,000.00
11	Shri. Eswel Sangma	1	1	2	Farmer	1	0	5	3	22	36,000.00
	TOTAL	29	34	63		14.4	66	38	40	211	3,68,000.00

ANNEXURE III
COST ESTIMATES

ESTIMATE FOR THE CONSTRUCTION OF CEMENT CONCRETE RETAINING WALL
AS PER SCHEDULED OF RATES FOR ROADS AND BRIDGES AND E&D WORKS FOR THE YEAR
2007-2008 IN TURA AND WILLIAMNAGAR CIRCLE

1/134 Excavation of structures (earthwork in excavation of foundation of Structures as per drawing and technical specification including setting out etc

$$1 \times 17 \times 0.5 \times 1.25 = 10.625 \text{ m}^3$$

$$@ 34 /\text{m}^3 = \text{Rs } 361.25$$

2/137 Plain Cement Concrete 1:3:6 nominal mixed in foundation with crushed stone aggregates 40 mm nominal size mechanically mixed etc including curing for 14 days

$$1 \times 17 \times 0.5 \times 1.25 = 10.625 \text{ m}^3$$

$$1 \times 17 \times \frac{.5+.30}{2} \times 2.061 = \underline{14.015} \text{ m}^3$$

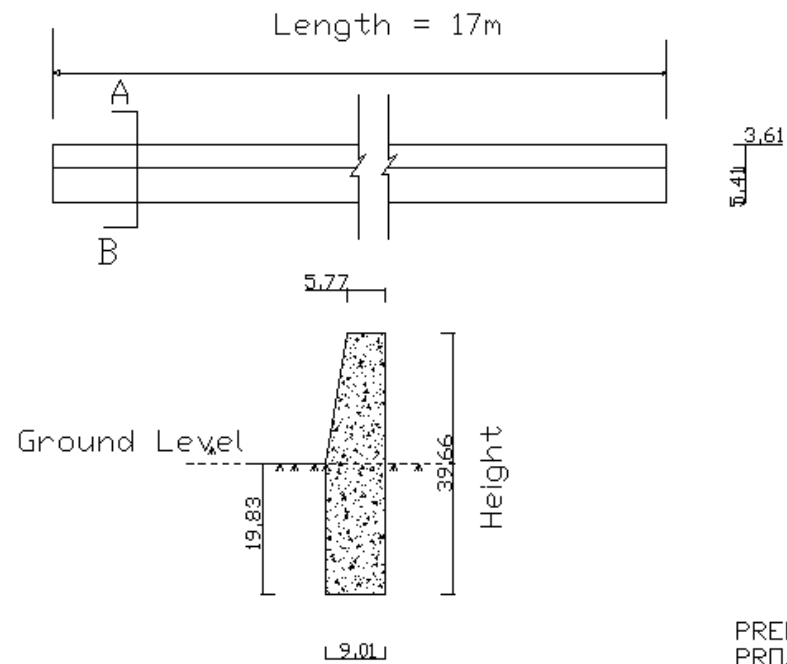
$$\text{Total} = 24.64 \text{ m}^3$$

$$@ 3232 /\text{m}^3 = \text{Rs } 79,636.48$$

Grand total = Rs 79,997.73
Say Rs 80,000

(Rupees Eighty Thousand thousand only)

PLAN & SECTION OF C.C RETAINING WALL



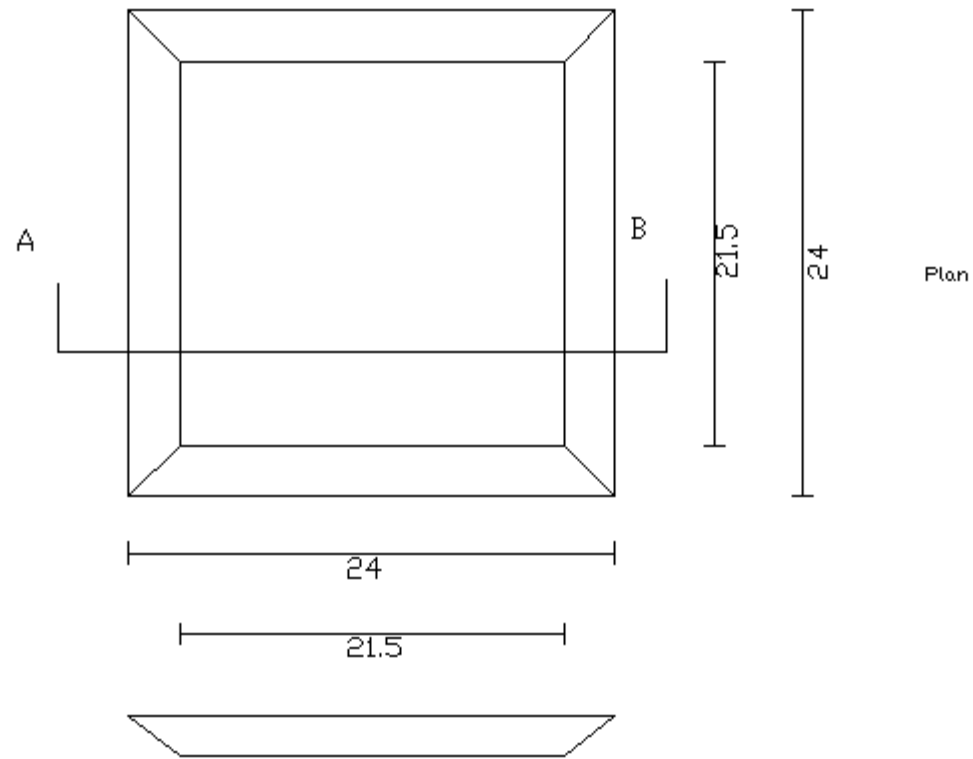
Section on A-B

PREPARED BY
PROJECT FORMULATION CELL SHILLONG
PLAN & SECTION OF C.C RETAINING WALL
SCALE: NOT TO SCALE
DIMENSION IN METRE

ESTIMATE FOR THE CONSTRUCTION OF DUG-OUT POND AS PER
SCHEDULED OF RATES FOR ROADS, BRIDGES AND E & D WORKS FOR THE YEAR
2007-2008 IN TURA CIRCLE AND WILLIAMNAGAR CIRCLE

1/3.	Site Clearance Area	=	Rs	0.0625 Ha
	@ 3600			/Ha = Rs 225
2/27.	Earthwork in excavation for dug out pond including dressing removal of spoils and lift complete.			
	1no x			$\frac{(24 \times 24) + (21.5 \times 21.5) \times 2}{2}$
		=	Rs	1038.5 m ³
	@	Rs	72 /m ³	= Rs 74772
			Total	74,997.00
			Say	Rs 75,000
			(Rupees seventy five thousand) Only	

PLAN FOR DUG OUT POND



Section A-B

PREPARED BY
PROJECT FORMULATION CELL SHILLONG
DIMENSION IN METRE
SCALE : NOT TO SCALE

ESTIMATE FOR THE CONSTRUCTION OF WATER HARVESTING STRUCTURE
 RATES ARE AS PER P.W.D SCHEDULED OF RATES FOR ROADS BRIDGES AND E & D WORKS
 FOR THE YEAR 2007-08 FOR TURA AND WILLIAMNAGAR CIRCLE

1/3. Cleaning and removal of rubbish upto a distance of 30 m outside the periphery of the area

Area = 0.0813 Ha
 @ 3600 /Ha = Rs 292.68

2/3(a) Earthwork in excavation to the proper grade including light, dressing providing cambering and super elevation as directed and removal of spoils upto 30m lead and all lift

1no $\frac{(25 \times 25)}{2} \times (20.14 \times 20.14) \times 2 = 1030.619 \text{ /m}^3$

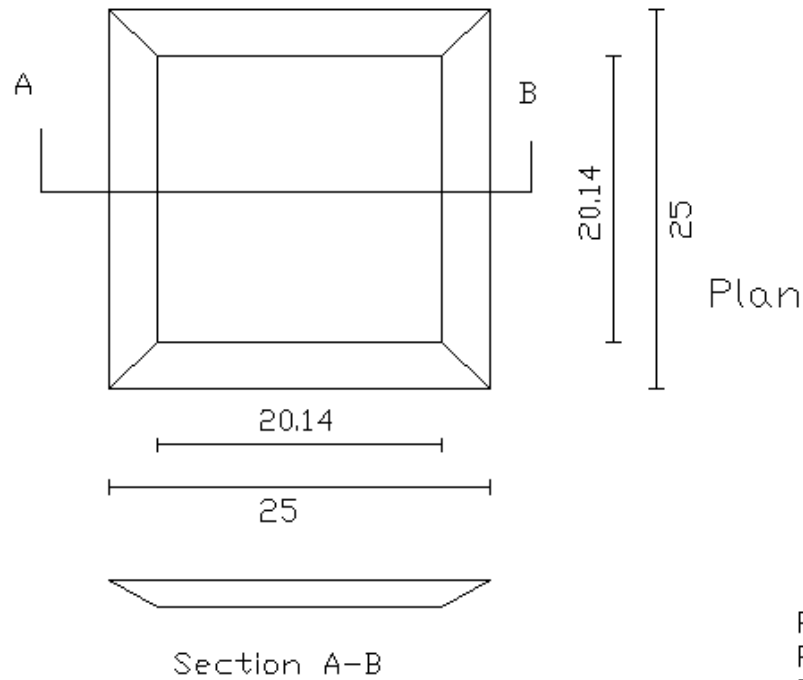
@ 72 /m³ = Rs 74204.57 /m³

Total = Rs 74497.248

Say Rs 75,000/-

(Rupees Seventy five thousand) Only

PLAN AND SECTION FOR WATER HARVESTING STRUCTURE



PREPARED BY
PROJECT FORMULATION CELL SHILLONG
DIMENSION IN METRE
SCALE : NOT TO SCALE

ESTIMATE FOR THE CONSTRUCTION OF SPRING CHAMBER WITH WATER RESERVOIR
(Rates as per P.W.D scheduled of rates for building works for the year 2010-2011)

1/1.1 Earthwork on excavation in foundation trenches including dressing of sides and ramming of the bottom including staking etc.
(d) Soft laminated rock or medium shale

For Spring Chamber:

1	x	1	x	2	x	0.8	x	1	=	1.6	m ³
1	x	2	x	2	x	0.8	x	0.8	=	2.56	m ³

For Reservoir:

1	x	2	x	3	x	0.3	x	0.5	=	0.75	m ³
1	x	2	x	2	x	0.3	x	0.5	=	0.45	m ³

For Pipe Pedestals:

15	x	0	x	0	x	0.6	=	<u>1.44</u>	m ³			
									Total	=	6.8	m ³

@ 122 /m³ = Rs 829.6

2/4.5 Providing 100mm thick solling with approved quality of stones etc.

For Spring Chamber:

1	x	1	x	2	x	0.8	=	1.6	m ²
1	x	2	x	2	x	0.8	=	3.2	m ²

For Reservoir:

1	x	2	x	3	x	0.3	=	1.5	m ²
---	---	---	---	---	---	-----	---	-----	----------------

	1	x	2	x	2	x	0.3	=	0.9	m ²	
	1	x	1	x	3	x	1.5	=	3.75	m ²	
For Pipe Pedestals:	15	x	0	x	0			=	<u>2.4</u>	m ²	
								Total	=	13.35	m ²
@	166								=	Rs 2216.1	

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

For Spring Chamber:

	1	x	1	x	2	x	0.8	x	0.1	=	0.16	m ³
	1	x	2	x	2	x	0.8	x	0.1	=	0.32	m ³

For Reservoir:

	1	x	2	x	3	x	0.3	x	0.1	=	0.168	m ³
	1	x	2	x	2	x	0.3	x	0.1	=	0.09	m ³

For Pipe Pedestals:

	15	x	0.4	x	0	x	0.1			=	<u>0.24</u>	m ³
								Total	=	0.978	m ³	

@	3859	/m ³							=	3774.102
---	------	-----------------	--	--	--	--	--	--	---	----------

4/2.2 Providing and laying cement concrete in proportion 1:3:6 etc

For Spring Chamber:

	1	x	1	x	2	x	0.6	x	0.9	=	1.08	m ³
	1	x	2	x	2	x	0.6	x	0.75	=	1.8	m ³

	1	x	1	x	2	x	$\frac{0.26+0.55}{2}$	x	1.35	=	1.09	m ³
--	---	---	---	---	---	---	-----------------------	---	------	---	------	----------------

1	x	2	x	1	x	$\frac{0.25+0.26}{2}$	x	0.45	=	0.23	m ³
1	x	2	x	2	x	$\frac{0.25+0.55}{2}$	x	1.8	=	2.88	m ³

For Reservoir:

1	x	2	x	3	x	0.3	x	0.3	=	0.504	m ³
1	x	2	x	2	x	0.3	x	0.3	=	0.27	m ³
1	x	1	x	3	x	1.5	x	0.2	=	0.75	m ³

For Pipe Pedestals:

15	x	0.3	x	0	x	0.4	=	<u>0.54</u>	m ³			
									Total	=	9.144	m ³
										=	Rs	38487.1

@ 4209 /m³

5/2.9(a) Providing shuttering including centering for flat surfaces such as slabs ,shelves, chajja and for vertical faces such as column etc.

For Spring Chamber:

1	x	2	x	2	x	0.9	=	3.6	m ²
2	x	2	x	2	x	0.75	=	6	m ²
1	x	1	x	3	x	1.83	=	5.49	m ²
1	x	1	x	3	x	1.8	=	5.4	m ²
1	x	2	x	$\frac{0.25+0.26}{2}$	x	0.45	=	0.23	m ²
2	x	2	x	2	x	0.75	=	6	m ²
2	x	2	x	0.6	x	0.75	=	1.8	m ²
2	x	1	x	2	x	1.83	=	7.32	m ²
2	x	1	x	2	x	1.8	=	7.2	m ²

		2 x	1 x	$\frac{0.25+0.55}{2}$ x	1.8		1.44
	For Reservoir:						
		1 x	2 x	2.8 x	0.3	=	1.68 m ²
		1 x	2 x	0.3 x	0.3	=	0.18 m ²
		1 x	2 x	1.5 x	0.3	=	0.9 m ²
		1 x	2 x	2.5 x	1.8	=	9 m ²
		1 x	2 x	1.5 x	1.8	=	5.4 m ²
		1 x	1 x	2.5 x	1.8	=	4.5 m ²
		1 x	2 x	2.5 x	0.1	=	0.5 m ²
		1 x	2 x	1.5 x	0.1	=	0.3 m ²
	For Pipe Pedestals:						
		15 x	4 x	0.3 x	0.4	=	7.2 m ²
		15 x	4 x	0.15 x	0.15	=	<u>1.35</u> m ²
						=	75.49 m ²
	@	217	/m ³			=	Rs 16381.33
6/2.3	Providing and laying cement concrete in proportion 1:2:4 etc.						
	For Reservoir:						
		1 x	2 x	2.5 x	0.15 x	1.8	= 1.35 m ³
		1 x	2 x	1.5 x	0.15 x	1.8	= 0.81 m ³
		1 x	1 x	2.5 x	1.5 x	0.1	= 0.375 m ³
	For Pipe Pedestals:						
		15 x	0 x	0.15 x	1.2	=	<u>0.405</u> m ³
						=	2.94 m ³
	@	4738	/m ³			=	Rs 13929.72
7/6.2(a)	Providing to steel reinforcement in R.C.C works including cutting , bending, cranking, and tying in position etc..						

8mmφ Tor Steel:

For Reservoir:

2 x 18 x 2.3 = 82.8 Rm
2 x 11 x 2.3 = 50.6 Rm

For Pipe Pedestals:

15 x 4 x 1.55 = 93 Rm
= 226.4 Rm

@ 0.39 kg/Rm = Rs 88.3 Kgs.

8mmφ Tor Steel

For Reservoir

2 x 14 x 1.4 = 39.2 Rm
2 x 9 x 2.4 = 43.2 Rm
2 x 10 x 2.4 = 48 Rm
2 x 10 x 1.4 = 28 Rm
158.4 Rm

@ 0.39 kg/Rm = Rs 61.8

6mmφ Tor Steel

For Pipe Pedestals:

15 x 9 x 0.5 = 67.5 Rm

@ 0.22 kg/Rm = Rs 14.9

Total = 164.922
1.64 Quintal

@ 5982.36 /qtl = Rs 9811.0704

8 Providing and fixing G.I pipes including necessary sockets, bends, jamnuts , elbows , tees complete.
(Rates as per market rates)

(a)75mm G.I Pipes

Length-1.50 Rm @ Rs 500/Rm

= Rs 750

(b) 50mm G.I pipes

Length 39.5 Rm @ Rs 350/-Rm

= Rs 13,825

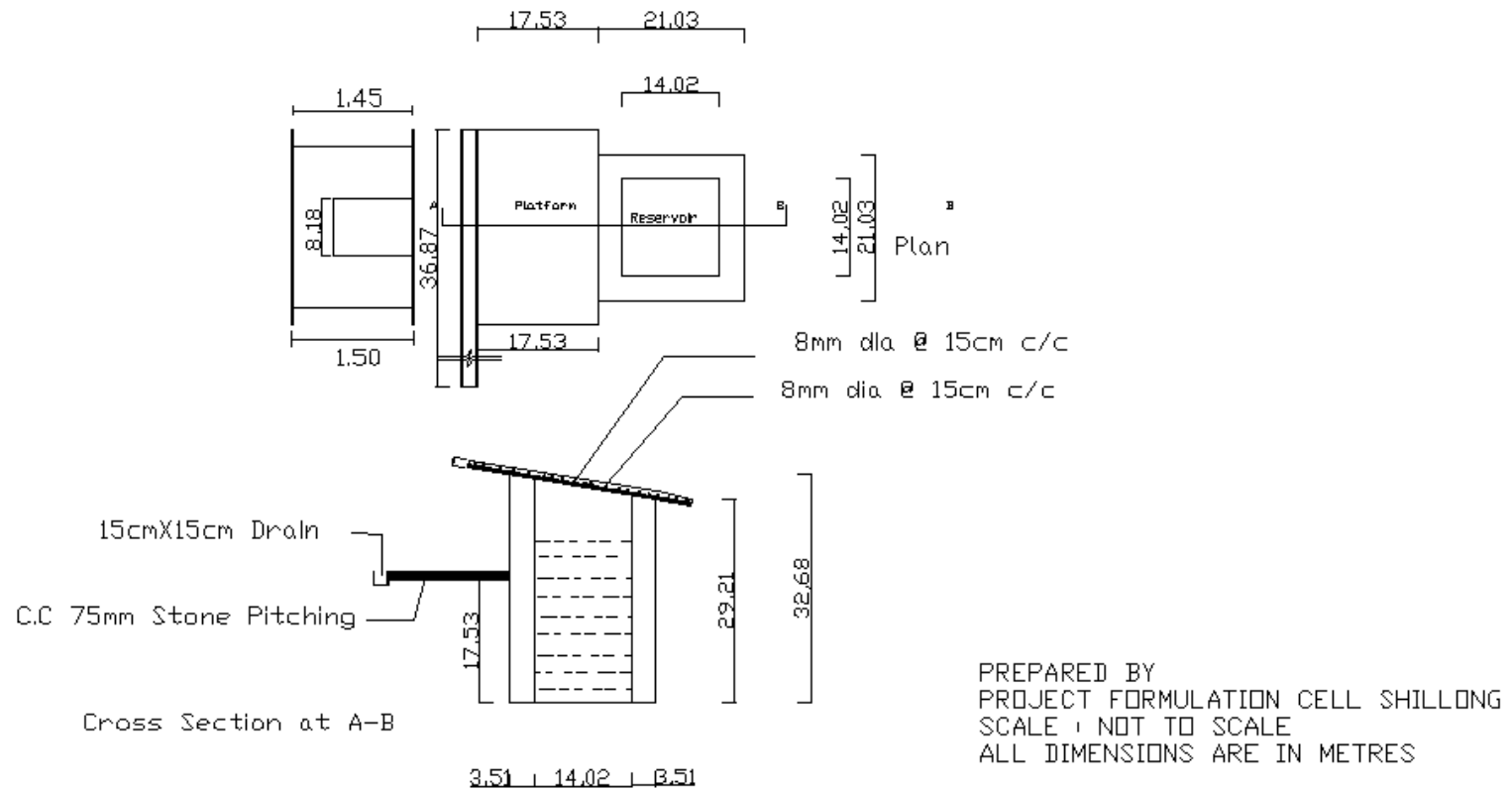
GRAND TOTAL

= Rs 1,00,004

Rs 1,00,000

(Rupees One lakh only)

PLAN AND SECTION OF SPRING CHAMBER WITH WATER RESERVOIR



ESTIMATE FOR THE CONSTRUCTION OF CEMENT CONCRETE CHECK DAM
AS PER SCHEDULED OF RATES FOR ROADS AND BRIDGES AND E&D WORKS FOR THE YEAR
2007-08 IN TURA AND WILLIAMNAGAR CIRCLE

1/62(i) Earthwork in excavation for structures (construction of retaining walls in cement concrete 1:5 as per drawing and technical specifications).

Dam	7	x	0.9	x	1	=		6.3	m ³
Curtain Wall	7	x	0.15	x	0.4	=		0.42	m ³
Apron	7	x	3	x	0.4	=		8.4	m ³
Wing wall	2	x	3.5	x	0.9	x	1.1	=	<u>6.93</u> m ³
								22.05	m ³
	@		72	/m ³		=		Rs	1587.6

2/97. Providing and laying of boulder Apron for bed protection with stone boulder of size 15cm size and 6cm wide as per drawing and technical specifications .

Apron	7	x	3	x	0.25	=		5.25	m ³
	@		884	/m ³		=		Rs	4641

3/137 Plain Cement Concrete in proportion 1:3:6 nominal mixed in foundation with crushed stone aggregates 40mm mechanically mixed etc.

Wing Wall	2	x	3.5	x	0.9	x	0.1	=	0.63	m ³
Dam	1	x	7	x	1.1	x	0.1	=	0.77	m ³
	1	x	7	x	1.1	x	1	=	7.7	m ³
	7	x	<u>0.4 + 0.9</u>	x	<u>1.7</u>			=	7.73	m ³
			2							

	2 x	4 x	0.6 x	0.3 =	1.44 m ³
Apron	7 x	3 x	0.15	=	3.15 m ³
Curtain Wall	7 x	0.15 x	0.55	=	0.5775 m ³
C.C Channel	1 x	8.48 x	0.8 x	0.1 =	0.6784 m ³
	2 x	8.48 x	0.8 x	0.1 =	<u>1.3568</u> m ³
					24.0327 m ³
@		3232 m ³		=	Rs 77673.6864

4/62(iii) Construction of retaining walls /breast walls in cement mortar 1:5 as per drawing and technical specifications.

Wing Wall	2 x	3.5 x	0.9 x	1 =	6.3 m ³
	2 x	3.5 x	<u>0.4 +</u>	x 1.7 =	<u>7.74</u> m ³
			<u>0.9</u>		
			2		14.04 m ³
@	2263 m ³			=	Rs 31772.52

5/176 Plastering with cement mortar 1:3 on brick work in sub structure as per technical specification.

Dam	2 x	7 x	1.7	=	23.8 m ³
	7 x	4 x	0.3	=	8.4 m ³
	2 x	0.6 x	0.3	=	0.36 m ³
	1 x	5 x	0.6	=	3 m ³
C.C	2 x	8.48 x	0.8	=	13.568 m ³

Channel

$$1 \times 8.48 \times 0.8 = \frac{6.784}{55.912} \text{ m}^3$$

$$@ 74 \text{ m}^3 = \text{Rs } 4137.488$$

6/134 Excavation of structures (earthwork in excavation of foundation of structures as per drawing and technical specification including setting out and construction of shoring etc.

$$8.48 \times 0.8 \times 0.8 = 5.4272 \text{ m}^3$$

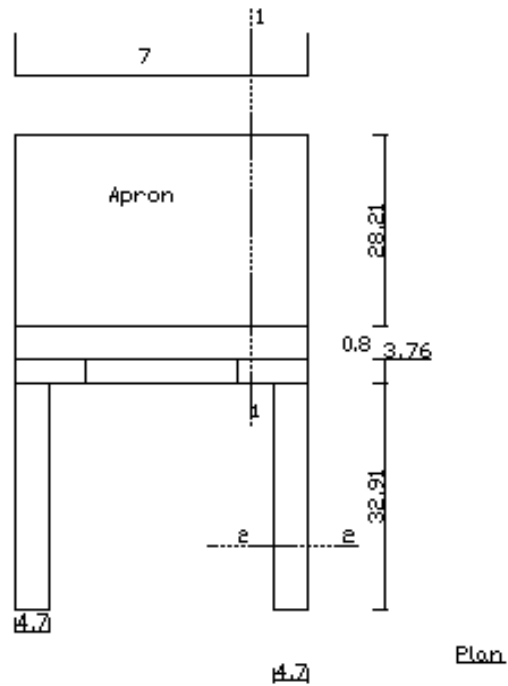
$$@ 34 \text{ m}^3 = \text{Rs } 185$$

$$\text{Total} = \text{Rs } 1,19,996.82$$

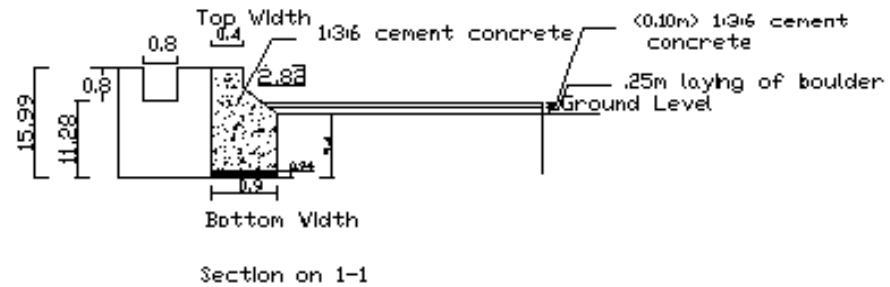
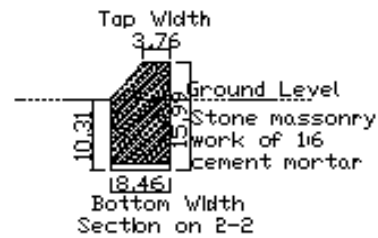
$$\text{say} \quad \text{Rs } 1,20,000$$

(Rupees one lakh twenty thousand) only

PLAN AND SECTION OF CEMENT CONCRETE CHECK DAM



Plan



Section on 1-1

PREPARED BY
PROJECT FORMULATION CELL SHILLONG
PLAN & SECTION OF C.C CHECKDAM
SCALE: NOT TO SCALE
DIMENSION IN METRE

ESTIMATE FOR THE CONSTRUCTION OF CEMENT CONCRETE DIVERSION AS PER
SCHEDULED OF RATES FOR ROADS , BRIDGES E & D WORKS FOR THE YEAR 2007-08
IN TURA AND WILLIAMNAGAR CIRCLE

1/134. Excavation for structures (earthwork in excavation of foundation of structures as per drawing and technical specifications, including setting out etc.

$$1 \times 22.85 \times \frac{1.50}{2} + \frac{1.00}{2} \times 1.2 = 34.28 \text{ m}^3$$

$$\text{Rs. } 34 \text{ /m}^3 \qquad \text{Rs. } 1,165.52$$

2/103. Providing and laying of dry rubble flooring completed as per drawing and technical specifications.

$$1 \times 22.85 \times 1 = 22.85 \text{ m}^3$$

$$\text{Rs. } 852 \text{ /m}^3 \qquad \text{Rs. } 19,468.20$$

3/141 Plain /reinforced cement concrete in open foundation as per drawing etc.

Cement procured

$$\begin{array}{r} 1 \times 22.85 \times 1 \times 0.1 = 2.285 \text{ m}^3 \\ 2 \times 22.85 \times 1.22 \times 0.1 = 5.5754 \text{ m}^3 \\ \hline 7.86 \text{ m}^3 \end{array}$$

Rs. 3630 /m³

Rs. 28,533.25

4/2.9(a) Plastering with cement mortar (1:3) on brick work in super structure as per drawing etc.

$$2 \times 22.85 \times 1.22 = 55.8$$

Rs. 74 /m³

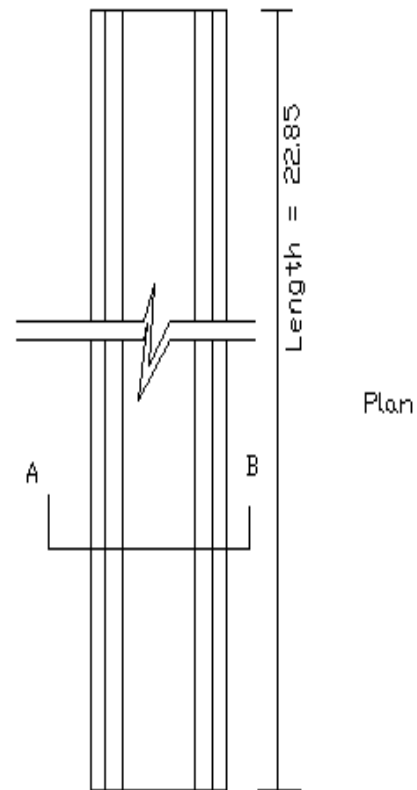
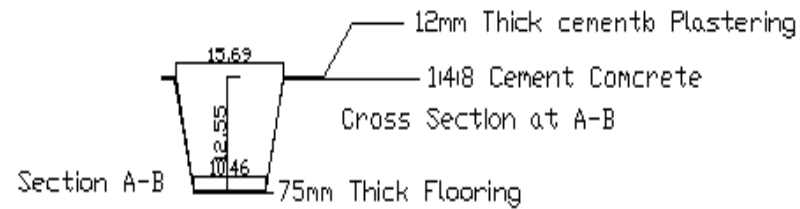
Rs. 4,125.80

Total = Rs. 53,292.77

Say Rs. 53,300.00

(Rupees Fifty three thousand three hundred) only.

PLAN AND SECTION OF CEMENT CONCRETE DIVERSION CHANNEL



PREPARED BY PROJECT FORMULATION CELL SHILLONG
SCALE : NOT TO SCALE
ALL DIMENSIONS ARE IN METRES

ESTIMATE FOR THE CONSTRUCTION OF CEMENT CONCRETE DIVERSION CHANNEL AS PER
SCHEDULED OF RATES FOR ROADS , BRIDGES E & D WORKS FOR THE YEAR 2007-08
IN TURA AND WILLIAMNAGAR CIRCLE

1/134. Excavation for structures (earthwork in excavation of foundation of structures as per drawing and technical specifications, including setting out etc.

$$1 \times 14.36 \times \frac{1.50 + 1.00}{2} \times 1.2 = 21.54 \text{ m}^3$$

Rs. 34 /m³ Rs. 732.36

2/103. Providing and laying of dry rubble flooring completed as per drawing and technical specifications.

$$1 \times 14.36 \times 1 = 14.36 \text{ m}^3$$

Rs. 852 /m³ Rs. 12,234.72

3/141 Plain /reinforced cement concrete in open foundation as per drawing and technical specifications

Cement procured

$$1 \times 14.36 \times 1 \times 0.1 = 1.436 \text{ m}^3$$

$$2 \times 14.36 \times 1.22 \times 0.1 = \frac{3.5038 \text{ m}^3}{4.94 \text{ m}^3}$$

Rs. 3630 /m³

Rs. 17,931.62

4/2.9(a) Plastering with cement mortar (1:3) on brick work in super structure as per drawing and technical specification

$$2 \times 14.36 \times 1.22 = 35$$

Rs. 74 /m³

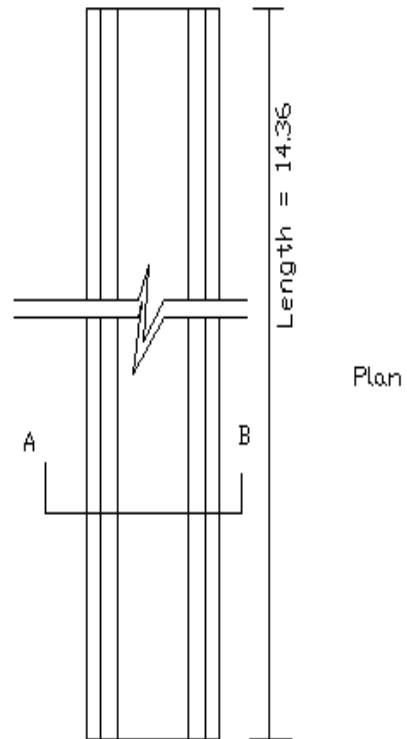
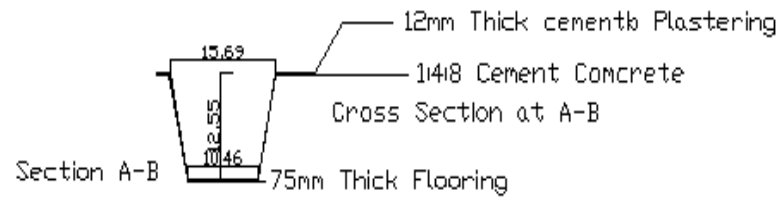
Rs. 2,592.84

Total = Rs. 33,491.54

Say Rs. 33,500.00

(Rupees Thirty three thousand Five hundred) only.

PLAN AND SECTION OF CEMENT CONCRETE DIVERSION CHANNEL



PREPARED BY PROJECT FORMULATION CELL SHILLONG
SCALE : NOT TO SCALE
ALL DIMENSIONS ARE IN METRES

ANNEXURE IV

MoA, SUB COMMITTEE DETAILS ETC.

FORMATION OF WATERSHED DEVELOPMENT TEAM (WDT)

The P.I.A (Project Implementing Agency) Baghmara Soil & Water Conservation (C.C) Division, South Garo Hills has constituted 3(three) W.D.T Members (Watershed Development Team) for the smooth functioning of the project on 20/12/2010 as per the Common Guidelines for Watershed Development Projects.

Names of Districts	Names of projects	Names of WDT members	M/F#	Age	Qualification / Experience	Description of professional training
South Garo Hills	SGH-IWMP-IV	Shri. Kai Raksal M Sangma	Male	28 yrs	Bachelor of Computer Application	Bachelor of Computer Application(B.C.A)
		Miss Ponobi R Marak	Female	25 yrs	Bachelor of Science in Forestry	Bachelor of Science in Forestry
		Shri. Bilcheng K. Marak	Male	23 yrs	Diploma in Civil Engineering	Civil Engineering

FORMATION OF WATERSHED COMMITTEE AND THE REGISTRATION UNDER SOCIETY REGISTRATION ACT.

The Middle Dabua Nala Micro Watershed under Integrated Watershed Management Programme (IWMP-IV) has constituted Watershed Committee (W.C) for smooth implementation of the Watershed Project with the Technical support of the Watershed Development Team (WDT) in the Village. The Villagers of the Meka Adugre & Molmegre Village unanimously selected the Chairman and the Members of the Watershed Committee in the meeting from the village itself and the Secretary from the Department of Soil & Water Conservation, Shri Harlow D Sangma (Range Officer) Baghmara Soil & Water Conservation (CC) Division. The Watershed Committee of Middle Dabua Nala Micro Watershed comprises of 10 members.

Name of the District	Name of project	Names of Watershed Committee	Date of Registration as a Society (dd/mm/ yyyy)	Designation	M/F	ST	Educational qualification
South Garo Hills	SGH- IWMP-IV	1. Shri. Prodip Marak		Chairman	M	ST	Class IX
		2. Shri. Harlow D. Sangma		Secretary	M	ST	P.U Passed
		3. Shri. Kai Raksal Sangma		Member	M	ST	B.C.A
		4. Shri. Polindro Sangma		Member	M	ST	Class VI
		5. Shri. Dargjing Sangma		Member	M	ST	Class VI
		6. Shri. Repson Sangma		Member	M	ST	Class VIII
		7. Shri. Martin Sangma		Member	M	ST	Class VI
		8. Smt. Emina Sangma		Member	F	ST	Class VIII
		9. Smt. Peolina Marak		Member	F	ST	Class V
		10. Smt. Grebila Marak		Member	F	ST	Class VI

1. Introduction
 2. 1.1.3. Introduction waler shud Hanggeonut Programme
 (I.N.M.P.) lozadam ragna Botta ni distat -
 ma cha dala chakanilo reaga jura nimilec
 jale boga raktakste. Avo Kestile Nakua Micco
 waler shud lo reagaleniya Kela Adu + Pelmigi
 lozoni mande reaga is programmo
 paghale sil sil (boga) -re distag -2
 Project reagle reaga tikela shu.

Project reagi:

1. Kuzanichi (wala Sarbatin)
2. Anacant plantatin
3. Rubber plantatin.
4. Rawa jallag. (Road & communication)
5. Land development.

La reagini Project reagle Bortone
 departmant sil. lozoni nandapatenilo
 mitlingchi jaggitapanis nam gup gadagore
 bolepara jura nimilec jale onpanilo
 Me bolepara

Chairman anagan juma re vote of thakulo
 onne mitlingho bonalaba.

15. P. S. G. G. Chairman
16. P. S. G. G. Proclipman

17. N. S. R. P. P. P.

Present Members

1. Shri Sellyson Sangma.
- 2) Shri Krishna Marak.
- 3 " Singing Sangma.
4. " Guitson Sangma.
5. Minola Marak.
6. Feilly Marak
7. Madilla sangma
8. Seune Sangma
9. Jekiller Marak
10. A.T. of Singing Marak
11. Weijing Marak
12. Martin of Barigora
13. A.T. of Arbu Marak
14. A.T. of Sumirang Marak
15. Pappa M Sangma
16. Paulip Marak
17. A.T. of Polichu Sangma
18. Nemtha R. Karak.

511

19. Lush R. Marak

20. Poina R. Marak

21. J Am sangma

22. Pandeng M Marak

23. Paradiso Marak

24. Kocod Jazuz

25. Emma Jazuz

No. objection Certificate of Notarary.

Arge Ishi, Polidho Baga
Mela-Hdy Alig Melere, lano ke onnaga.
Micro water shud gila baga distag-2
Arge Baga manggihlo kabagips project.
Kagho kam ragho kora ar-o mangg
Champugani daga ja wa.
Katalong chin beam bimang an bag baljoker
See on naga.

L. I. & Polidho Baga



A King Melere
Village Mela
Block No. 17, Section No. 7
South Caro Hill

No objection Certificate of VEC

Anga Shri. Pradip Kumar
Maha Adar + Mahanagar VEC Baneraj (NREOP)
Ganapada CED Block South-Care Hills
Lano in date see onmsg 9.

Chiro wala chud gila Maha Adar + Mahanagar
Bogora digla - 2 project chud onna
development onnara ago namgla
Champurani dogjara in age
Lano see onmsg 9.

Pradeep
Secretary
PEIC, Maha Adar Mahanagar VEC,
Ganapada C & D, Block
South Care Hills.

No. objektif Artifical of AEC

Anga' M. Mirit Manda
Secretary AEC-A Mela-Ady,
Dano in abhe ke omga, Anga angni
Mira Employment ni singo Microhalidhol
gila Project anghe real borragne
Development ni bidig ni mamngi
Changpagani dangjan ni anga land
See omngi.

[Signature]
Secretary
-for Employment Council
Mela-Ady (A)
Tasuneta C. & R. D. Block
Santa Rosa Hills.

- 1. ...
- 2. ...
- 3. ...
- 4. ...
- 5. ...
- 6. ...
- 7. ...
- 8. ...
- 9. ...
- 10. ...
- 11. ...
- 12. ...

Mella-Ndu+Mitorogi 7/11/2010 taido
I.W.M.P.-ni gini. Nohoro oi Sarao meeting, tona
Chanchi.

Hilisho kadina gila shi, Pwdeip manale
jura namile kachagaba.

Chairman shi, Pwdeip manale mutisho
a balhuzi - sarog, stalesaho Dolo beate jol/dt
Chanchi's naggiye agunda kachho Chochi-
dilagaba.

R.N.D.1. Middle Dabua Micro Water shed
Committee bedagaba.

1. shi, Pwdeip manale (Chairman)
2. " Polindro Bayor (member)
3. " Darging Bayor (member)
4. " Repson Bayor (member)
5. " Marthin Bayor (member)
6. Int. Emira Bayor (woman member)
7. " Prolis Manale (do)
8. " Gachila Manale (do)

R.N.D.2. Middle Dabua Micro Water shed Association
Committee bedagaba.

1. shi, Dinist Manale (President)
2. " Wanjog Manale (Secretary)
3. " Selliplan Bayor (member)
4. " Gachisa Bayor (member)
5. " Milton Bayor (member)
6. " Raista Manale (member)
7. Int. Hinola Manale (woman member)
8. " Kisilly Manale (do)
9. " Nokini Bayor (do)
10. " Baroni Bayor (do)

Da dangin memhu rangho jura
namile jol Bayor kachagaba.

Cont:-