

GOVERNMENT OF INDIA



DETAILED PROJECT REPORT

ON

UPPER DABUA MICRO WATERSHED

UNDER

INTEGRATED WATERSHED MANAGEMENT PROGRAMME(IWMP-IV)

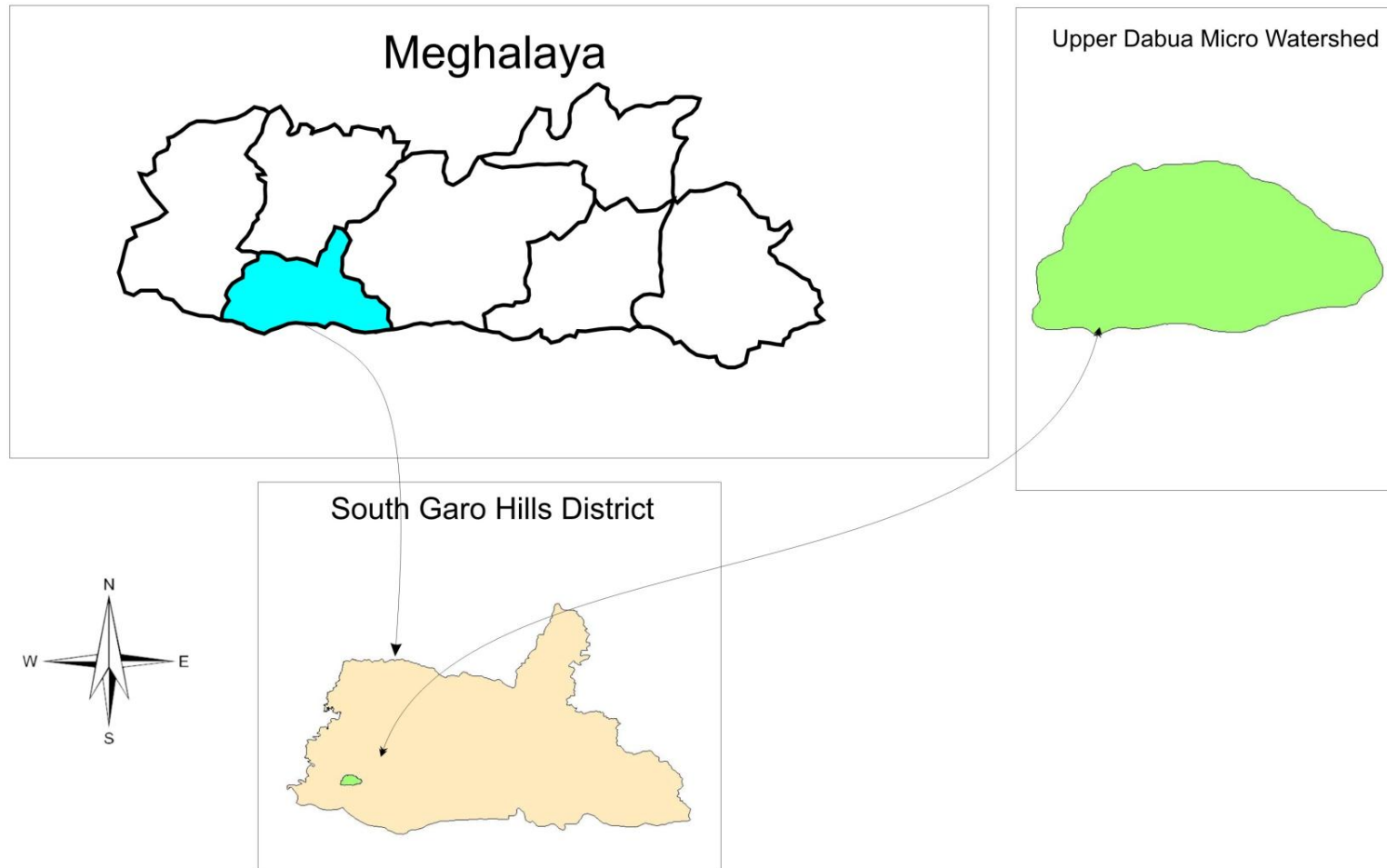
2010-2011

BAGHMARA SOIL & WATER CONSERVATION (CC) DIVISION.

SOUTH GARO HILLS

MEGHALAYA

Location of Upper Dabua MWS under IWMP
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) Nokatgre (ii) Pilnegre (iii) Narongkolgre
Name of the Project	:	South Garo Hills – IWMP-IV
Total Geographical Area	:	549 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	17
CHAPTER IV PROJECT ACTIVITIES	24
CHAPTER V PROJECT PHASING & BUDGETING	39
CHAPTER VI CAPACITY BUILDING	55
CHAPTER VII EXPECTED OUTCOME	59
ANNEXURE I MAPS	80
ANNEXURE II SOCIO-ECONOMIC SURVEY DETAILS.....	90
ANNEXURE III COST ESTIMATES	95
ANNEXURE IV MoA, SUB COMMITTEE DETAILS ETC.....	122



CHAPTER I

INTRODUCTION AND BACKGROUND

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INTRODUCTION AND BACKGROUND

1.1 Project Background:

The Upper 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 549 ha. with 500 ha. to be treated under the Integrated Watershed Management Programme (IWMP).

The Project area is located at a distance of about 6.5 km from Gasuapara C&RD Block and about 51 km from Baghmara. A total of three villages are covered under the project. They are –

- 1 Nokatgre
- 2 Pilnegre
- 3 Narongkolgre

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 549 Ha., with 500 hectares to be treated under the Integrated Watershed Management Programme (IWMP).

1.3 Need and Scope for Watershed Development:

The Upper 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 farmers are all marginal and 30 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)
- (ii)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 within the area of Gasuapara under the Gasuapara C&RD Block , South Garo Hills District. It is situated at a distance of about 51.5 km from Baghmara . The geographical location is between 90⁰ 20' 02'' to 90⁰ 22' 29''E Longitude and 25⁰ 13' 12'' to 25⁰ 14' 55''N Latitude. There are 3 villages within the Watershed they are –

- 1.Narongkolgre
- 2.Nokatgre
- 3.Pilnegre

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

2.2 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%. In the lower reaches of the watershed is relatively flat and suitable for Agriculture. The altitude ranges from 59m to 87m above mean sea level.

Table 2.1: Physiographic details

Elevation (metres)	Slope Range (%)	Order of watershed Sub/Micro-watershed	Major streams	Topography
59m to 87 m	10% to 15% and 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.

2.5 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:				
				a	Sheet	500	2500-4000	10-15
				b	Rill			
				c	Gully			
				Sub total		500		
				Wind erosion		Nil	Nil	Nil

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

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	549 Ha	South Garo Hills	South Garo Hills – IWMP – IV	Coarse loamy.	549 Ha	4000 mm	Maize	12.9
									Turmeric	12.9
									Colocasia	12.9
									Rice	16
									Ginger	12.9
									Tapioca	12.9
									Chilli	12.9
									Cow pea	12.9
									Pumpkin	12.9
									Cucumber	12.9
									Arecanut	13
									Cashew nut	12
									Brinjal	12.9
									Total	170

2.7 Agriculture: Agriculture is the primary occupation of the people of the area. The people mostly 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. Fruit crops are well suited in the lower reaches which include *Mangifera indica*, orange, pineapple, jackfruit, litchi. The slopes of the Upper Dabua Nala are also very suitable for betel nut, betel leaf, black pepper, broomstick, 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	12.9	6	77.4
Turmeric	12.9	30	387
Colocasia	12.9	35	451.5
Rice	16	15	240
Ginger	12.9	25	322.5
Tapioca	12.9	30	387
Chilli	12.9	4	51.6
Cow pea	12.9	15	193.5
Pumpkin	12.9	50	645
Cucumber	12.9	35	451.5
Arecanut	13	12	156
Cashew nut	12	8	96
Brinjal	12.9	20	258
Total	170	285	3717

2.8 Natural Vegetation: The tree species common to the watershed area includes – *Tectona grandis*, *Tamarindus indica*, *ziziphus jububa*, *Bamboo* etc. However, due to jhum cultivation the forest cover of the area has reduced considerably.

2.9 Socio-Economic Profile: Economically, the area is perhaps the most backward in the district. The main reason is due to the absence of road communication, primitive way of agricultural practices like jhumming and the difficult terrain of the area.

Demographic Status: The total household in the watershed project is 30 with a total population of 145, of which 64 are male and 81 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
Nokatgre	12	28	34	62	5-6
Pilnegre	11	19	27	46	4-5
Narongkolgre	7	17	20	27	3
TOTAL	30	64	81	135	4-5

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 to Gasuapara.
- 2.1.2 *School:* There are only 3 L.P School within the Project Area run by the Government.
- 2.1.3 *Electricity :* No electricity connections in the project area.
- 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 at Baghmara.

2.1.5 *Water Supply* : No drinking water supply system has been provided by the PHE Deptt. the entire population 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 Gasuapara or at 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	30			
		(iv)	No. of educational institutions: Primary (P)/ Secondary (S)/ Higher Secondary (HS)/ Vocational institution (VI)	(P)	(S)	(HS)	(VI)
				3		-	-
		(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			

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

Table 2.6: Existing livestock population

Type of Animal	Population
Piggery	104
Poultry	406
Goatery	85
Cattle	215
TOTAL	810

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

2.12 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	30	30	-	170	170
		(iv) Landless	-	-	-	-	-
		Sub - Total	30	30	-	170	170

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	-	-		181 Ha	-	-	-	181 Ha
		(ii) Pastures	-	-	-	-	-	-	-	-
		(iii) Private Agriculture land	16 Ha	-	-	-	16 Ha			
		(iv) Village woodlot	-	-	-	-				
		(v) Forest	-	-	-	190 Ha				141 Ha
		(vi) Village Ponds/ Tanks	-	-	-	-				
		(vii) Community Buildings	-	-	-	-				
		(viii) Weekly Markets	-	-	-	Gasuapara				
		(ix) Permanent Markets	-	-	-	Gasuapara				
		(x) Temples/ Places of worship	-	-	-	Church- 3 no				
		(xi) Others (Pl. specify)		-	-	162 Ha				162 Ha
		Total	16 Ha	-	-	533 Ha	16 Ha	-	-	484 Ha

2.13 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	=	8 Ha
b) Others Shifting cultivation abandoned	=	181 Ha
c) Others Shifting cultivation current	=	129 Ha
d) Agricultural land-crop land-kharif crop	=	16 Ha
e) Tree clad Area-close	=	94 Ha
f) Tree clad Area-open	=	96 Ha
g) Arecanut plantation	=	13 Ha
h) Cashewnut plantation	=	<u>12 Ha</u>
Total	=	549 Ha

2.14 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 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)	No

1	2	2
	Remote sensing data-especially soil/ crop/ run-off cover	Yes
	Ridge to Valley treatment	Yes
	Online IT connectivity between	
	(1) Project and DRDA cell/ZP	Yes
	(2) DRDA and SLNA	Yes
	(3) SLNA and DoLR	Yes
	Availability of GIS layers	
	1. Cadastral map	No
	2. Village boundaries	No
	3. Drainage	Yes
	4. Soil (Soil nutrient status)	Yes
	5. Land use	Yes
	6. Ground water status	No
	7. Watershed boundaries	Yes

	8. Activity	Yes
	Crop simulation models [#]	No
	Integrated coupled analyzer/ near infrared visible spectroscopy/ medium spectroscopy for high speed soil nutrient analysis	No
	Normalized difference vegetation index (NDVI)#	Yes
	Weather Stations	No
B.	Inputs	
	1. Bio-pesticides	No
	2. Organic manures	Yes
	3. Vermi-compost	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 (C.C) Division, Baghmara 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 Upper Dabua Nala, IWMP-IV was constituted with the active involvement of the villagers with strong support of the Traditional Institutions (Village Nokma/Council). The Upper 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 ualify-cation	Function/s assigned#
South Garo Hills District	South Garo Hills District – IWMP – IV	Upper Dabua Nala	Yet to be Register	Chairman	M	-	ST		1							Cl – X	A to I
				Secretary	M	-	ST									P.U	A to I
				Member	4M	-	ST		4							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	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 And 1 no. of watershed association	3 nos.	2 nos.	Participatory Rural Appraisals	N.A	Done	Done	Done	Done	-	1.5

4.2 Watershed Works Phase:

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

1	2	3	4	5	6			7											
Sl · No	Name of States	Name of Distri cts	Name of Project s	Type of structures	Pre Project			Proposed Project											
					No	Area irriga ted (ha)	Storage capacit y	Augmentation/ repair of existing structures				Construction of new structures				Total target			
								No	Area to be treated (ha)	Storage capacit y	Estimat ed cost (in lakhs)	No	Area to be treated (ha)	Storage capacity (per unit)	Estimate d cost (in lakhs)	No	Area to be treate d (ha)	Storage capacit y (m³)	Estima ted cost
1	Megha laya	South Garo Hills	South Garo Hills – IWMP IV	(i) Tank	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(ii) Pond				-	-	-	-	-	-	-	8 Nos	40	1038 m³	6.0	8 nos.	40	8304	6.0	
(iii) Lake				-	-	-	-	-	-	-	-	-	-	-	-	--	-	-	
(iv) Check Dam				-	-	-	-	-	-	-	8 Nos	64	1400 m³	9.60	8 nos.	64 Ha	10400 m³	9.60	
(v) Percolation Tank				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(vi) Diversion Channel				-	-	-	-	-	-	-	450 Rm	7.5	-	1.125	450 Rm	7.5	-	1.125	
(vii) Any others (please specify)																			
Protection wall				-	-	-	-	-	-	-	5 Nos	32	-	4.80	5 Nos	32		4.80	
Water Harvesting structure				-	-	-	-	-	-	-	8 Nos	40	1236 m³	6.0	8 Nos	40	9888m³	6.0	
					Total					-	-	-	-	29 Nos & 450 Rm	183.5 Ha	3674 m³	26.525	29 nos. & 450 Rm	183.5 Ha

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 m³	9.60	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	450Rm	7.5	-	1.125	-	-	-	-	-
-	-	-	-	5 Nos	32		4.80	-	-	-	-	-
				8 Nos	40	9888m³	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				
S. No.	Names of States	Names of Districts	Names of projects	Type of structures	Pre-project		Proposed target						Achievement due to project						Change in irrigated area (Col. 8-6) (ha)				
					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
	Meghalaya	South Garo Hills	South Garo Hills - IWMP-IV	(i)Open wells		Nil																	
				(ii)Bore wells						Nil													
				(iii)Any others (Pl. specify) 1 Dug Out Pond 2 Water Harvesting							Nil				Nil			Nil		Nil			
				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	Estimate d 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)	(a)	(b)	
SGH	SGH IWMP -IV	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

4.2.8 Details of engineering structures in watershed works:

1	2	3	4			5			6	7				8									
District	Project	Name of structures	Type of treatment			Type of land			Executing agency	Target				Achievement									
			(i) Ridge area (R)	(ii) Drainage line (D)	(iii) Land Dev. (L)	(i) Pri- vate	(ii) Com- munity	(iii) Others (pl. specify)	(i) UG (ii)SHG (iii) Others (pl specify)	No. of units (No./ cum./ rmt)	Estimated cost (Rs. in lakh)				Expected month & year of completion (mm/yyyy)	No. of units (No./ cu.m./ rmt)	Expenditure incurred (Rs. in lakh)				Status of comple- tion	Actual month & year of completion (mm/yyyy)	
											M	W	O	T			M	W	O	T			
South Garo Hills	South Garo Hills- IWMP -IV	Staggered trenching																					
		Loose boulder																					
		Contour bund																					
		Graded bunding																					
		Protection wall			L	P	C		Beneficiary	5	1.92	2.88		4.8	2012-13								
		Earthen checks dams																					
		Masonry stop Dams																					
		Gully plug																					
		Gabion structures																					
		Underground dykes																					
		Field bunds																					
		Any others (pl. specify)																					
1.CC Check Dam	R	D		P	C		UG Beneficiary	8 No.s	3.84	5.76		9.6	2012-13	8 No.s	3.84	5.76		9.6	2012-13		2012-13		
2.Water Harvesting									8 No.s	2.4	3.6		6.0	2012-13	8 No.s	2.4	3.6		6.0	2012-13		2012-13	

Contd.

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 cum	126	`1.5	1.3	420	588	6.3	8.82	-	Yes	6804	4536	11340	-	Yes	64	81	145

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 IWMP-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.

4.2.11 Details of vegetative structures in watershed works: Phase – II (contd.):

9														
Outcomes														
Reduction in run off (cu.m)	Production (quintal)		Income (Rs.)		Mandays generated					No. of beneficiaries				
	Pre- project	Post project	Pre- project	Post project	SC	S T	Others	Women	Total	SC	ST	Others	Women	Total

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	SC	ST	Others	Women	Total	SC	ST	Others(Men)	Women	Total
Nil	8.33		yes	2988	1992	4980		yes	64	81	145

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-IV	Nokatgre Pilnegre Narongkolgre	CPRs	Repairing	-	3.25	100	0.1625								

CHAPTER V
PROJECT PHASING & BUDGETING

CHAPTER V

PROJECT PHASING & BUDGETING

ACTION PLAN OF UPPER 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 Enggineering 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
				6	%			14	%	50	%	25	%	5	%	100	%


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


 Deputy Commissioner
 South Garo Hills, Baghmara

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

Name of District:	South Garo Hills
Village :	Narongkolgre

II	PROJECT COST/ WATERSHED WORKS PHASE			3.09733	%	11.010667	%	2.972	%			17.08	%
A.	Non-Arable Land Treatment	17.08	%										
i	Nursery Establishment-Arecanut, for 11.66 Ha							11.66	1.00			11.66	1.00
ii	Afforestation (Non Pine) 12 Ha @ Rs. 10,100/-												
	a) Preliminary Year @ Rs. 1,700 /- per Ha			12 Ha.	0.204							12 Ha.	0.204
	b) 1st Year Planting @ Rs. 5,500 /- per Ha					Mntce	0.66						0.66
	c) 2nd Year Planting @ Rs. 2,900 /- per Ha							Mntce	0.348				0.3480
iii	Rubber Plantation 13 Ha. @ Rs. 28,935												
	a) Pre-Work @ Rs. 1,300 /- per Ha.			13 Ha	0.169							13 Ha	0.169
	b) 1st Year Planting including cost of Rubber Stump @ Rs. 4,600 /- per Ha.					Mntce	0.598						0.598
	c) 2nd Year Planting @ Rs. 2,700 /- per Ha.							Mntce	0.35				0.351
	Total of A			25 Ha.	0.373		1.258	11.66	1.699			37 Ha.	3.33
B	Drainage Line Treatment												
i	Small Dug-Out Pond @ Rs. 75,000			1 No.	0.75	2 Nos.	1.50					3 Nos.	2.25
ii	Protect/ Retaining Wall @ Rs. 80,000				-	2 Nos.	1.60					2 Nos.	1.60
iii	Water Harvesting Structure @ Rs. 75,000				-	2 Nos.	1.50					2 Nos.	1.50
iv	C.C Check Dam @ Rs. 1,20,000			1 No.	1.20	2 Nos.	2.40					3 Nos.	3.60
v	Run-off Disposal/ Diversion Channel as per Estimate							200 Rm	0.53			200 Rm.	0.53
	Total of B			2 No.	1.95	8 Nos.	7.00	0 Nos.	0.53			10 Nos 200 Rm.	9.48
	Total of A+ B	17.08	%	25 Ha. 2 Nos.	2.323	8 Nos.	8.26	200 Rm -	2.229 Nos.			200 Rm. 37 Ha. 10	12.8100 Nos.

C	Livelihood Activities	3.38	%			0.45	%	1.01	%	1.93	%			3.38	%
	for the asset less persons														
i	Tailoring @ Rs	8,000	/- Unit			1 Unit	0.08	1 Units	0.08	1 Unit	0.08			3 Units	0.24
ii	Carpentry @ Rs	5,000	/- Unit			1 Unit	0.05		-	1 Unit	0.05			2 Units	0.10
iii	Kitchen Gardening @ Rs	2,500	/- Unit				-	1 Unit	0.025	5 Units	0.125			6 Units	0.15
iv	Weaving @ Rs	12,500	/- Unit			1 Unit	0.125	1 Unit	0.13	1 Unit	0.13			3 Units	0.38
v	Piggery @ Rs	8,000	/- Unit				-	2 Unit	0.16	3 Units	0.24			5 Units	0.40
vi	Poultry @ Rs	8,000	/- Unit				-	2 Units	0.16	3 Units	0.24			5 Units	0.40
vii	Apiculture @ Rs	8,000	/- Unit			1 Unit	0.08	1 Unit	0.08	2 Units	0.16			4 Units	0.32
viii	Pisciculture @ Rs	10,000	/- Unit				-	1 Unit	0.10	3 Units	0.30			4 Units	0.40
ix	Compos Pit @ Rs	2,500	/- Unit				-	1 Unit	0.025	1 Unit	0.025			2 Units	0.05
x	Agricultural implements @ Rs	5,000	/- Unit						-	2 Units	0.10			2 Units	0.10
						4 Units	0.34	10 Units	0.76	22 Units	1.45			36 Units	2.535
D	Production System	4.133	%			0.67	%	1.53	%	1.93	%			4.13	%
i	Piggery @ Rs	30,000	/- Unit					1 Unit	0.30	2 Units	0.60			3 Units	0.90
ii	Poultry @ Rs	30,000	/- Unit					1 Unit	0.30	1 Unit	0.30			2 Units	0.60
iii	Weaving @ Rs	30,000	/- Unit					1 Unit	0.30	1 Unit	0.30			2 Units	0.60
iv	Betel Nut Processing @ Rs	50,000	/- Unit			1 Unit	0.50		-		-			1 Units	0.50
v	Duckery @ Rs	25,000	/- Unit					1 Unit	0.25	1 Units	0.25			2 Units	0.50
	Total of D					1 Units	0.50	4 Units	1.15	5 Units	1.45			10 Units	3.10
	Grand Total						3.16		10.16		5.12				18.4450
		24.5933	%			4.211	%	13.551	%	6.832	%			24.593	%


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

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

Name of District:	South Garo Hills
Village :	Nokagre

II	PROJECT COST/ WATERSHED WORKS PHASE			2.495	%	12.05	%	2.264	%			17 %
A.	Non-Arable Land Treatment 16.810 %											
i	Nursery Establishment-Arecanut, for 11.66 Ha							11.66	1.00			11.66 1.00
ii	Afforestation (Non Pine) 11.5 Ha @ Rs. 10,100/-											
	a) Preliminary Year @ Rs. 1,700 /- per Ha			11.5 Ha.	0.1955							11.5 Ha. 0.1955
	b) 1st Year Planting @ Rs. 5,500 /- per Ha					Mntce	0.6325					0.6325
	c) 2nd Year Planting @ Rs. 2,900 /- per Ha							Mntce	0.3335			0.3335
iii	Rubber Plantation 13.5 Ha. @ Rs. 28,935											
	a) Pre-Work @ Rs. 1,300 /- per Ha.			13.5 Ha	0.1755							13.5 Ha 0.1755
	b) 1st Year Planting including cost of Rubber Stump @ Rs. 4,600 /- per Ha.					Mntce	0.621					0.621
	c) 2nd Year Planting @ Rs. 2,700 /- per Ha.							Mntce	0.3645			0.3645
	Total of A			25 Ha.	0.371		1.254	11.66	1.698			37 Ha. 3.323
B	Drainage Line Treatment											
i	Small Dug-Out Pond @ Rs. 75,000			1 No.	0.75	1 No.	0.75					2 Nos. 1.50
ii	Protect/ Retaining Wall @ Rs. 80,000				-	2 Nos.	1.60					2 Nos. 1.60
iii	Water Harvesting Structure @ Rs. 75,000			1 No.	0.75	2 Nos.	1.50					3 Nos. 2.25
iv	C.C Check Dam @ Rs. 1,20,000				-	3 Nos.	3.60					3 Nos. 3.60
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	8 Nos. 150 Rm.	7.785	0 Nos.	-			10 Nos 250 Rm. 9.285
	Total of A+ B 16.81 %			100 Rm 25 Ha. 2 Nos.	1.871	150 Rm. 8 Nos.	9.0385	0 Rm -	1.698 Nos.			250 Rm. 25 Ha. 10 Nos. 12.6075

C	Livelihood Activities			3.24667			0.28 %		1.07 %		1.90 %			3 %		
	for the asset less persons															
i	Tailoring	@ Rs	8,000	/- Unit			1 Unit	0.08	1 Unit	0.08	2 Units	0.16			4 Units	0.32
ii	Carpentry	@ Rs	5,000	/- Unit				-		-	2 Units	0.10			2 Units	0.10
iii	Kitchen Gardening	@ Rs	2,500	/- Unit			1 Unit	0.025	1 Unit	0.025	4 Units	0.100			6 Units	0.15
iv	Weaving	@ Rs	12,500	/- Unit				-	2 Units	0.25	1 Unit	0.125			3 Units	0.38
v	Piggery	@ Rs	8,000	/- Unit				-	2 Units	0.16	3 Units	0.24			5 Units	0.40
vi	Poultry	@ Rs	8,000	/- Unit			1 Unit	0.08	1 Units	0.08	3 Units	0.24			5 Units	0.40
vii	Apiculture	@ Rs	8,000	/- Unit				-	1 Unit	0.08	2 Units	0.16			3 Units	0.24
viii	Pisciculture	@ Rs	10,000	/- Unit				-	1 Unit	0.10	2 Units	0.20			3 Units	0.30
ix	Compos Pit	@ Rs	2,500	/- Unit			1 Unit	0.025	1 Unit	0.025		-			2 Units	0.05
x	Agricultural implements	@ Rs	5,000	/- Unit						-	2 Units	0.10			2 Units	0.10
							4 Units	0.21	10 Units	0.80	21 Units	1.43			35 Units	2.435
D	Production System			4.467 %			0.33 %		2 %		1.87 %				4.467 %	
i	Piggery	@ Rs	30,000	/- Unit					1 Unit	0.30	1 Unit	0.30			2 Units	0.60
ii	Poultry	@ Rs	30,000	/- Unit					2 Units	0.60	1 Unit	0.30			3 Units	0.90
iii	Weaving	@ Rs	30,000	/- Unit					1 Unit	0.30	1 Unit	0.30			2 Units	0.60
iv	Betel Nut Processing	@ Rs	50,000	/- Unit				-	1 Unit	0.50		-			1 Units	0.50
v	Duckery	@ Rs	25,000	/- Unit			1 Unit	0.25		-	2 Units	0.50			3 Units	0.75
	Total of D						1 Units	0.25	5 Units	1.70	5 Units	1.40			11 Units	3.35
	Grand Total							2.33		11.54		4.52				18.3925
							3.108 %		15.385 %		6.03067 %				24.5233 %	


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

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

Name of District:	South Garo Hills
Village :	Pilnegre

II	PROJECT COST/ WATERSHED WORKS PHASE			1.91	%	11.94	%	2.264	%			16	%
A.	Non-Arable Land Treatment	16.11	%										
i	Nursery Establishment-Arecanut, for 11.66 Ha							11.66	1.00			11.66	1.00
ii	Afforestation (Non Pine) 11.5 Ha @ Rs. 10,100/-												
	a) Preliminary Year @ Rs. 1,700 /- per Ha			11.5 Ha.	0.1955							11.5 Ha.	0.1955
	b) 1st Year Planting @ Rs. 5,500 /- per Ha					Mntce	0.6325						0.6325
	c) 2nd Year Planting @ Rs. 2,900 /- per Ha							Mntce	0.3335				0.3335
iii	Rubber Plantation 13.5 Ha. @ Rs. 28,935												
	a) Pre-Work @ Rs. 1,300 /- per Ha.			13.5 Ha	0.1755							13.5 Ha	0.1755
	b) 1st Year Planting including cost of Rubber Stump @ Rs. 4,600 /- per Ha.					Mntce	0.621						0.621
	c) 2nd Year Planting @ Rs. 2,700 /- per Ha.							Mntce	0.3645				0.3645
	Total of A			25.0 Ha.	0.371		1.254	11.66	1.698			37 Ha.	3.3225
B	Drainage Line Treatment												
i	Small Dug-Out Pond @ Rs. 75,000				-	3 Nos.	2.25					3 Nos.	2.25
ii	Protect/ Retaining Wall @ Rs. 80,000			1 No.	0.80	1 Nos.	0.80					2 Nos.	1.60
iii	Water Harvesting Structure @ Rs. 75,000				-	3 Nos.	2.25					3 Nos.	2.25
iv	C.C Check Dam @ Rs. 1,20,000					2 Nos.	2.40					2 Nos.	2.40
v	Run-off Disposal/ Diversion Channel as per Estimate			100 Rm	0.26							100 Rm.	0.26
	Total of B			1 No.	1.06	9 Nos.	7.70		-			10 Nos	8.76
	Total of A+ B	16.11	%	100 Rm	1.431	0 Rm.	8.9535	0 Rm	1.698			100 Rm.	12.0825
				25 Ha.		9 Nos.		-	Nos.			25 Ha.	
				1 Nos.								10	Nos.

C	Livelihood Activities	3.34667 %			0.38 %		1.03 %		1.93 %			3.347 %
	for the asset less persons											
i	Tailoring @ Rs	8,000 /- Unit			-	1 Unit	0.08	2 Units	0.16			3 Units 0.24
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 0.025	1 Unit	0.025	4 Units	0.10			6 Units 0.15
iv	Weaving @ Rs	12,500 /- Unit			-	1 Unit	0.13	1 Unit	0.13			2 Units 0.25
v	Piggery @ Rs	8,000 /- Unit			1 Unit 0.08	1 Unit	0.08	3 Units	0.24			5 Units 0.40
vi	Poultry @ Rs	8,000 /- Unit			-	2 Units	0.16	3 Units	0.24			5 Units 0.40
vii	Apiculture @ Rs	8,000 /- Unit			1 Unit 0.08	1 Unit	0.08	2 Units	0.16			4 Units 0.32
viii	Pisciculture @ Rs	10,000 /- Unit			1 Unit 0.10	1 Unit	0.10	2 Units	0.20			4 Units 0.40
ix	Compos Pit @ Rs	2,500 /- Unit			-	1 Unit	0.025	1 Unit	0.025			2 Units 0.05
x	Agricultural implements @ Rs	5,000 /- Unit				1 Unit	0.05	2 Units	0.10			3 Units 0.15
					4 Units 0.29	11 Units	0.78	22 Units	1.45			37 Units 2.51
D	Production System	4.40 %			- %	1.20 %		3.20 %				4.40 %
i	Piggery @ Rs	30,000 /- Unit				1 Unit	0.30	1 Unit	0.30			2 Units 0.60
ii	Poultry @ Rs	30,000 /- Unit				1 Unit	0.30	1 Unit	0.30			2 Units 0.60
iii	Weaving @ Rs	30,000 /- Unit				1 Unit	0.30	1 Unit	0.30			2 Units 0.60
iv	Betel Nut Processing @ Rs	50,000 /- Unit					-	2 Units	1.00			2 Units 1.00
v	Duckery @ Rs	25,000 /- Unit			-		-	2 Units	0.50			2 Units 0.50
	Total of D				-	3 Units	0.90	7 Units	2.40			10 Units 3.30
	Grand Total				1.716		10.6285		5.548			17.8925
		23.85667 %			2.288 %		14.171 %		7.397 %			23.8567 %


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 NOKATGRE, NARONGKOLGRE & PILNEGRE VILLAGE UNDER UPPER DABUA NALA MICRO WATERSHED,SGH - IWMP-IV**

Name of Village :	Nokatgre, Narongkolgre & Pilnegre	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 No. of Job Card Holder :	30 Household	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							
			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 Covergence 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
Nokatgre, Narongkolgre & Pilnegre
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
Nokatgre, Narongkolgre & Pilnegre
VEC
Gasuapara C&RD Block
South Garo Hills.

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

Name of Village :	Pilnegre	Total Wage Component @ Rs 117/- per annum in the 1st year	Rs. 12,384
		Total Wage Component @ Rs 117/- per annum in the 2nd year	Rs. 2,35,284
		Total Wage Component @ Rs 117/- per annum in the 3rd year	Rs. 12384
		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. 2,60,052

Sl No	Activities	Units	PROJECT PERIOD												Total			Mandays to be Generated	
			2011-12			2012-13			2013-14			2014-15							
			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.	2.4	12,384	8,256	4.9	25,284	16,856	2.4	12,384	8,256				9.7	50,052	33,368	83420	428
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/-					1	45,000	30,000							1	45000	30000	75000	385
5	CC Check Dam @ Rs. 1,20,000/-					1	72000	48,000							1	72000	48000	3,60,000	615
	Total			12,384	8,256	4	2,35,284	1,56,856		12,384	8,256				4	2,60,052	1,73,368	6,73,420	2223
			2.4	Ha		4.9	Ha		8	Ha.					30	Ha.			

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

1. Wage Component	Rs	260052
2. Material Component	Rs.	173368
Grand Total	Rs.	433420

Grand Total (Rupees Four lakhs thirty three thousand four hundred twenty) only

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

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

Name of Village :	Nokatgre	Total Wage Component @ Rs 117/- per annum in the 1st year	Rs. 16,512
		Total Wage Component @ Rs 117/- per annum in the 2nd year	Rs. 2,35,284
		Total Wage Component @ Rs 117/- per annum in the 3rd year	Rs. 16512
		Total Wage Component @ Rs 117/- per annum in the 4th year	Rs. 0
Total No. of Job Card Holder :	12 Household	Total Wage Component	= Rs. 2,68,308

Sl No	Activities	Units	PROJECT PERIOD												Total			Mandays to be Generated	
			2011-12			2012-13			2013-14			2014-15							
			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.	3.2	16,512	11,008	4.9	25,284	16,856	3.2	16,512	11,008				11.3	58,308	38,872	97180	498
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/-					1	45,000	30,000							1	45000	30000	75000	385
5	CC Check Dam @ Rs. 1,20,000/-					1	72000	48,000							1	72000	48000	3,60,000	615
	Total			16,512	11,008	4	2,35,284	1,56,856		16,512	11,008				4	2,68,308	1,78,872	6,87,180	2293
			3.2	Ha		4.9	Ha		8	Ha.					30	Ha.			

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

1. Wage Component Rs 268308

2. Material Component Rs. 178872

Grand Total Rs. 447180

Grand Total (Rupees Four lakhs forty seven thousand one hundred eighty) only

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

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

Name of Village : Narongkolgre

Total No. of Job Card Holder : 7 Household

Total Wage Component @ Rs 117/- per annum in the 1st year Rs. 12,384
 Total Wage Component @ Rs 117/- per annum in the 2nd year Rs. 2,31,672
 Total Wage Component @ Rs 117/- per annum in the 3rd year Rs. 12384
 Total Wage Component @ Rs 117/- per annum in the 4th year Rs. 0
Total Wage Component = Rs. 2,56,440

SI No	Activities	Units	PROJECT PERIOD												Total			Mandays to be Generated	
			2011-12			2012-13			2013-14			2014-15							
			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.	2.4	12,384	8,256	4.2	21,672	14,448	2.4	12,384	8,256				9	46,440	30,960	77400	397
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/-					1	45,000	30,000							1	45000	30000	75000	385
5	CC Check Dam @ Rs. 1,20,000/-					1	72000	48,000							1	72000	48000	3,60,000	615
	Total			12,384	8,256	4	2,31,672	1,54,448		12,384	8,256				4	2,56,440	1,70,960	6,67,400	2192
			2.4	Ha		4.2	Ha		8	Ha.					30	Ha.			

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

1. Wage Component Rs 256440

2. Material Component Rs. 170960

Grand Total Rs. 427400

Grand Total (Rupees Four lakhs twenty seven thousand four hundred) only

President
Narongkolgre 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
Narongkolgre 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				
S L 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)	Area (ha) of the projects				Area details (ha) (falling within the projects)				
					From	To												
										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	Upper Dabua Nala	170	Nil	330	-	16	94	120	270	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	Amou nt (Lakh s)	Name of private sector	Financial contri- bution	Name	Financial contri- bution	Name	Financi al contri- bution	Name	Finan cial contri- - bution	
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	Upper Dabua Nala, Watershed Committee	SBI, Baghmara	31683070648	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 (a) Structures (b) livelihoods (c) Any other (pl. specify) [#]	Reference no. of activity/ task/ structure in DPR [@]	Level at which decision for convergence was taken ^{\$}
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
2							

Note: Nokatgre Village

Pilnegre Village

Narongkolgre

(a)Dug-out pond 3 No.s

(b)Rubber Plantation 30 Ha

(c)Protection Wall/Retaining Wall 3 nos

(d)CC. Check Dam 3 nos

(e)Water Harvesting 3 nos

Wages-1.35 Lakhs;

Wages-1.548 Lakhs;

Wages-1.44 Lakhs;

Wages-2.16 Lakhs;

Wages-1.35 Lakhs;

Material-0.90 Lakhs;

Material-1.032 Lakhs;

Material-0.90 Lakhs;

Material-1.44 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	Type of Institute [#]	Area(s) of specialization ^{\$}	Accreditation details	Performance				
								Reference 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 – 11 as 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 Village	1										2				
		Wage employment										Self employment				
		No. of mandays					No. of beneficiaries					No. of beneficiaries				
		SC	ST	Others(Men)	Women	Total	SC	ST	Others	Women	Total	SC	ST	Others	Women	Total
1.	Narongkolgre	-	100 %	3734	2490	6224	-	100 %	17	20	37	-	100 %	21	13	34
2	Nokatgre	-	100%	3734	2490	6224	-	100%	28	34	64	-	100%	21	13	34
3	Pilnegre	-	100%	3736	2489	6225	-	100%	19	27	46	-	100%	21	13	34

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	1.Narongkolgre 2.Nokatgre 3.Pilnegre								

* 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					
Names of the Districts	Name of Projects	Name of crops	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.
South Garo Hills District	SGH-IWMP IV	Rice	-	16	-	15	-	240	-	15	-	15	-	225	-	13	-	20	-	260
		Maize	-	12.9	-	6	-	77.4	-	9	-	6	-	54	-	6	-	8	-	48
		Ginger	-	12.9	-	25	-	322.5	-	9	-	25	-	225	-	6	-	29	-	174
		Turmeric	-	12.9	-	30	-	387	-	9	-	30	-	270	-	6	-	33	-	198
		Chilli	-	12.9	-	4	-	51.6	-	9	-	4	-	36	-	6	-	7	-	42
		Tapioca	-	12.9	-	30	-	387	-	9	-	30	-	270	-	6	-	33	-	198
		Yam	-	12.9	-	18	-	232.2	-	9	-	20	-	162	-	6	-	23	-	138
		Cowpea	-	12.9	-	15	-	193.5	-	9	-	15	-	135	-	6	-	18	-	108
		Pumpkin	-	12.9	-	50	-	645	-	9	-	50	-	450	-	6	-	54	-	324
		Total		119.2		193		2536.2		87		195		1845		61		225		1490

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	2	3	4	5	6						7						8					
Sl No.	Names of States	Names of the Districts	Name of Projects	Name of crops	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.
	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					
Sl No.	Names of States	Names of the Districts	Name of Projects	Name of crops	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.
	Meghalaya	South Garo Hills District	SGH-IWMP IV	Maize	-	12.9	-	6	-	77.4	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 the end of the Table.

Irri. – Irrigated Rf – Rainfed

Table 7.6.4 Increase/ Decrease in area under fodder:

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 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		
District	Name of project	Duration of Project	Existing area tree cover (ha)			Achievement (ha)		
			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	94 Ha	35 Ha	35Ha	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			25	65	65	65

* 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	2	3	4			5			6			7
Names of the Districts	Name of Projects	Type of Animal	Pre-project			Mid-term			Post-project			Remarks
			No.	Yield	Income	No.	Yield	Income	No.	Yield	Income	
South Garo Hills District	SGH-IWMP IV	Cattle	215	10320	15.48	220	10560	15.84	235	11280	16.92	
		Goat	85	1275	3.18	89	1335	3.33	100	1500	3.75	
		Poultry	406	365.4	0.47	420	378	0.49	475	427.5	0.55	
		Piggery	104	2496	3.99	115	2760	4.41	130	3120	4.99	
	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	SG H-IW MP 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	-	111		111	-	40	-	40
		2.Tailoring	0.84	0.80	0.04	-	0.84	0.80	-	50		50	-	10	-	10
		3.Carpentry	0.3675	0.35	0.0175	-	0.3675	0.35	-	65		65	-	7	-	7
		4.Kitchen Gardening	0.4725	0.45	0.0225	-	0.4725	0.45	-	80		80	-	50	-	50
		5.Weaving	2.34	2.80	0.14		2.34	2.80	-	60		60	-	10	-	10
		6. Piggery	3.465	3.3	0.165		3.465	3.3		50		50		20		20
		7. Poultry	3.465	3.3	0.165		3.465	3.3		70		70		80		80
		8.Compost pit	0.1575	0.15	0.0075		0.1575	0.15		50		50		10		10
		9.Duckery	1.8375	1.75	0.0875		1.8375	1.75		50		50		70		70
		10.Betelnut Processing	2.1	2.0	0.1	-	2.1	2.0		45		45		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	-	-	-
		(vii) Extension services	-	1	2
		(viii) Nurseries	-	1	2
		(ix) Tools/machinery suppliers	-	-	-
		(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	16	20	
		ii Area under double crop	Ha	-	10	
		iii Area under multiple crop	Ha	-	50	
		Net increase in crop production area	Ha	-	59	
		Increase in area under vegetation	Ha	190	225	
		Increase in area under horticulture	Ha	29	94	
		Increase in area under fuel & fodder	Ha	-	-	
		Increase in milk production		-	-	
		No. of SHGs	Nos.	-	15	
		Increase in no. of livelihoods	Nos.	-	25	
		Increase in income	Rs in lakhs	0.25 – 0.35	0.35 - 0.45	
		Migration		-	-	
		No. of school going children	Nos.	25	55	
		SHG Federations formed		-	-	
		Credit linkage with banks	Nos.	-	3	
		Resource use agreements	Nos.	-	3	
		WDF collection & management		-	1	
		Summary of lessons learnt	May be attached as a separate file			

Table 7.10 Cost effectiveness of structures/ activities*

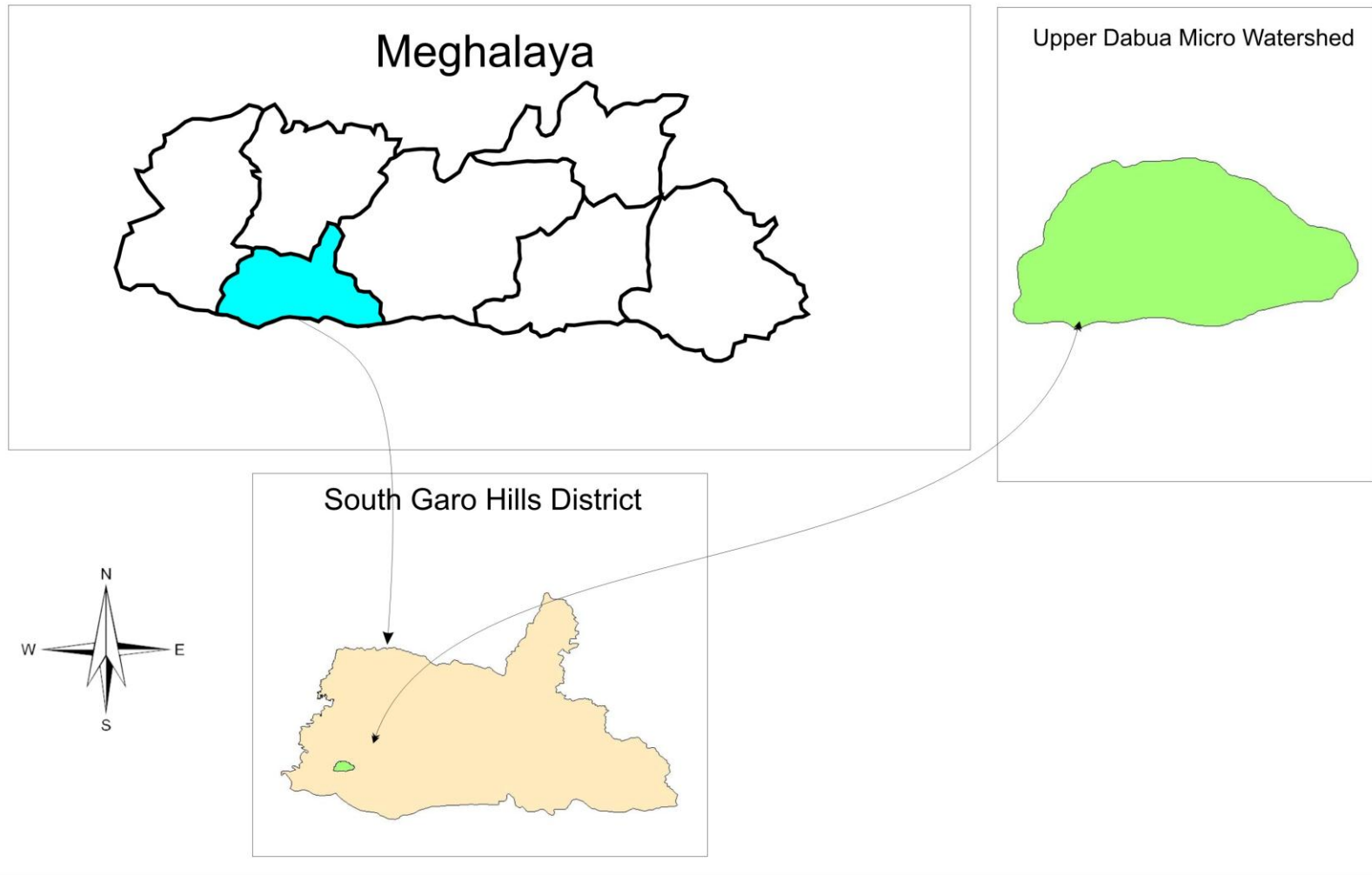
1	2	3	4	5	6	7	8	9	10
District	Name of project	Name of WC	Name of structure/ activity	Estimated cost (Rs.)	Expected quantifiable benefits (Rs.)	Expenditure incurred (Rs.)	Actual quantifiable benefit (Rs.)	Benefit: Cost ratio [#]	IRR
South Garo Hills District	SGH-IWMP IV	Upper Dabua Nala	As per Treatment Plan	58.5 lakhs	87.75 lakhs	58.5 lakhs	-	1: 1.5	-

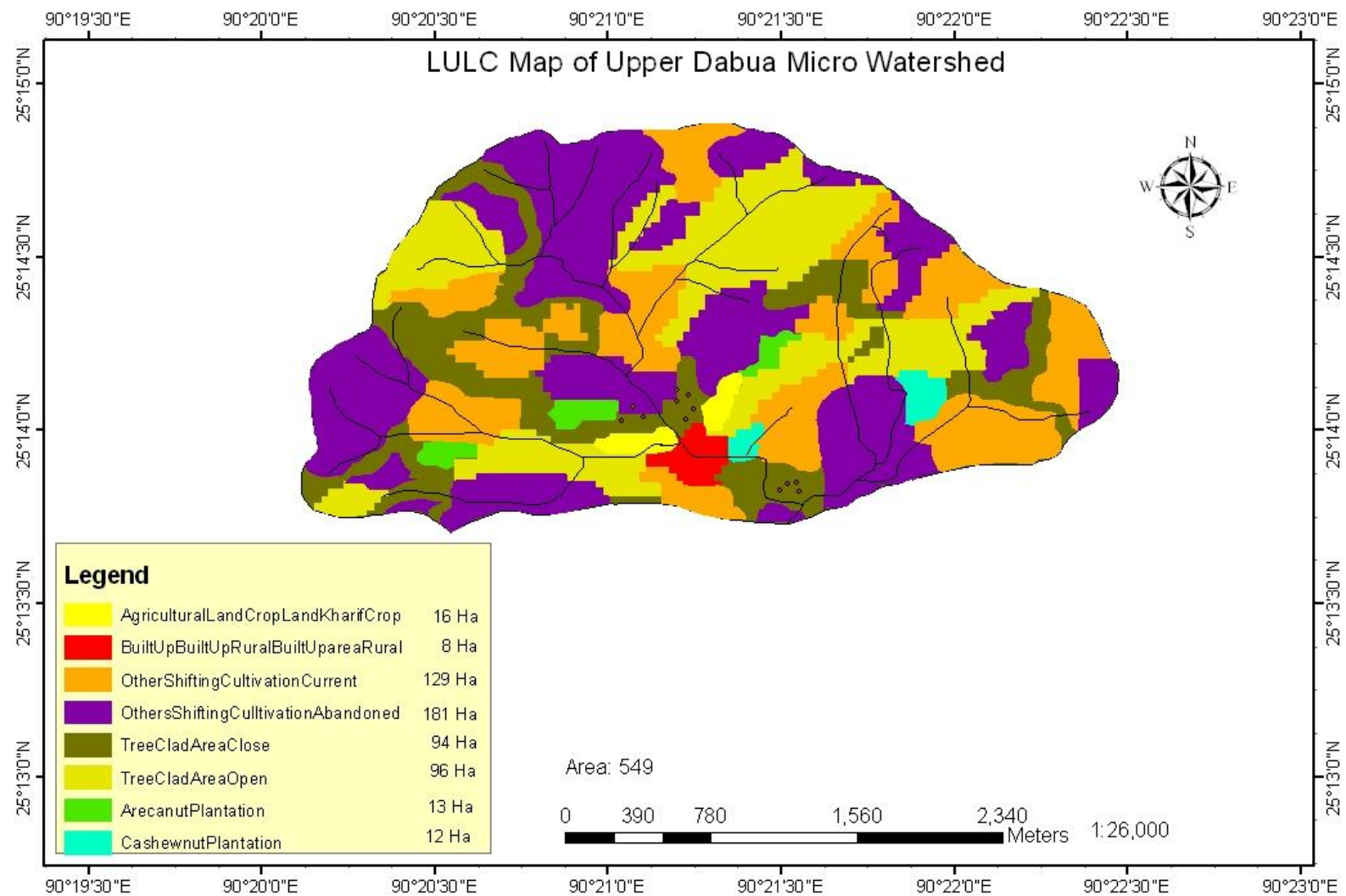
* from column no. 2, total no. of States implementing the programme, from column no. 3, total no. of Districts; from Column no. 4, no. of projects, from column no. 5, no. of WCs, from column no. 6, no. of structures/ activities, from column no. 7 to 10, category-wise# totals, may be mentioned at the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

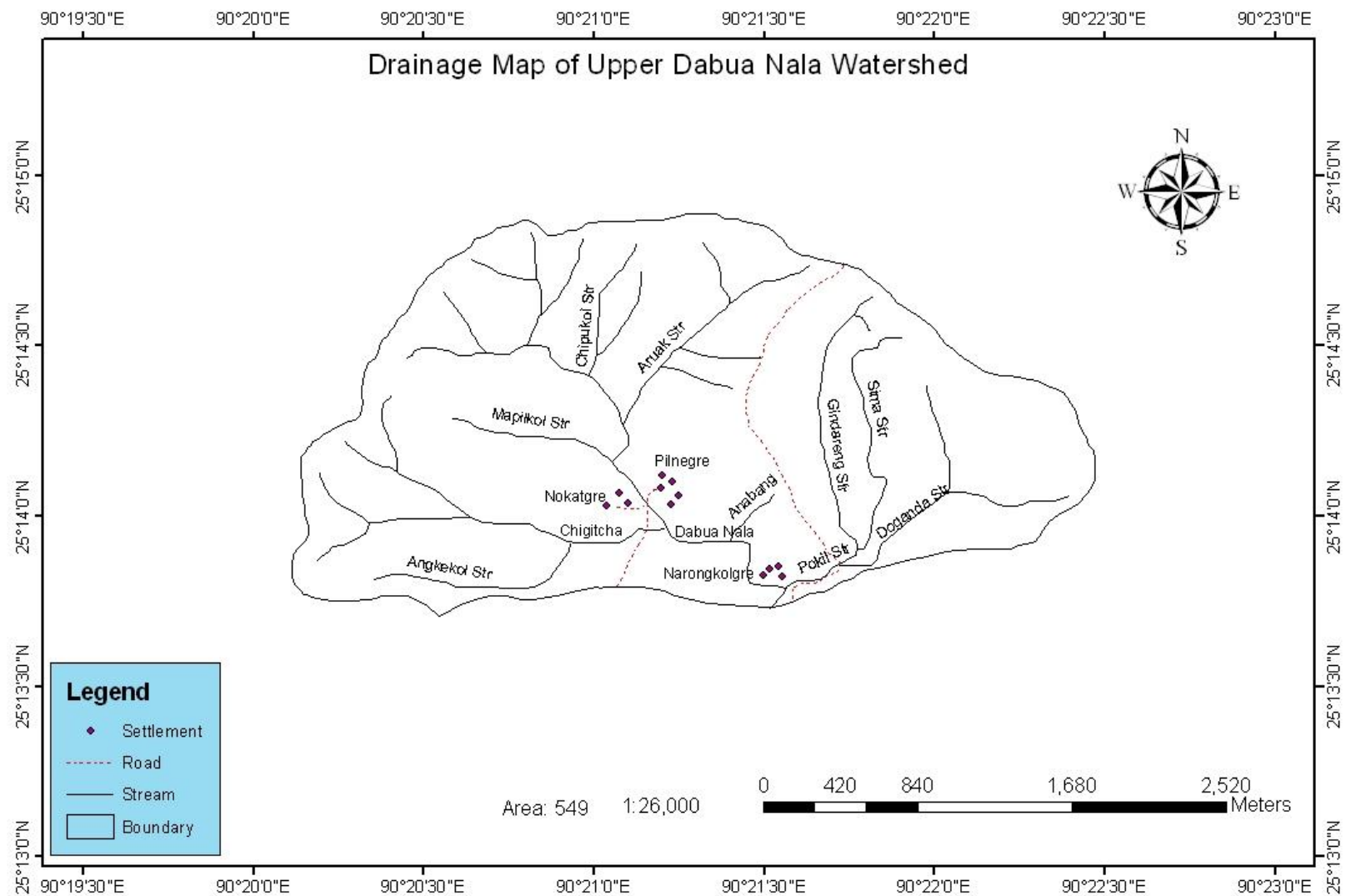
[#] B:C ratio more than 1 – cost effective
less than 1 – Not cost effective

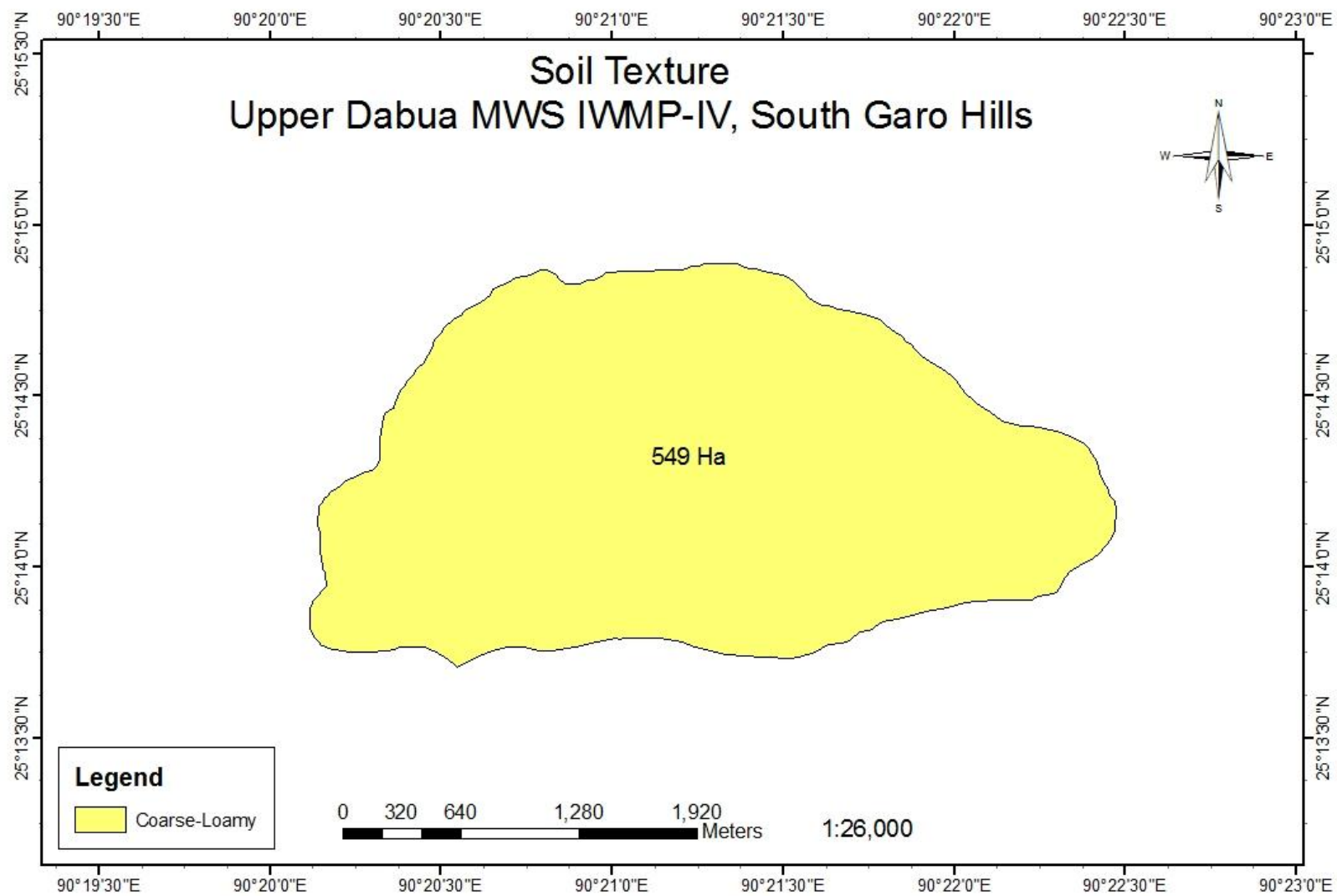
ANNEXURE I
MAPS

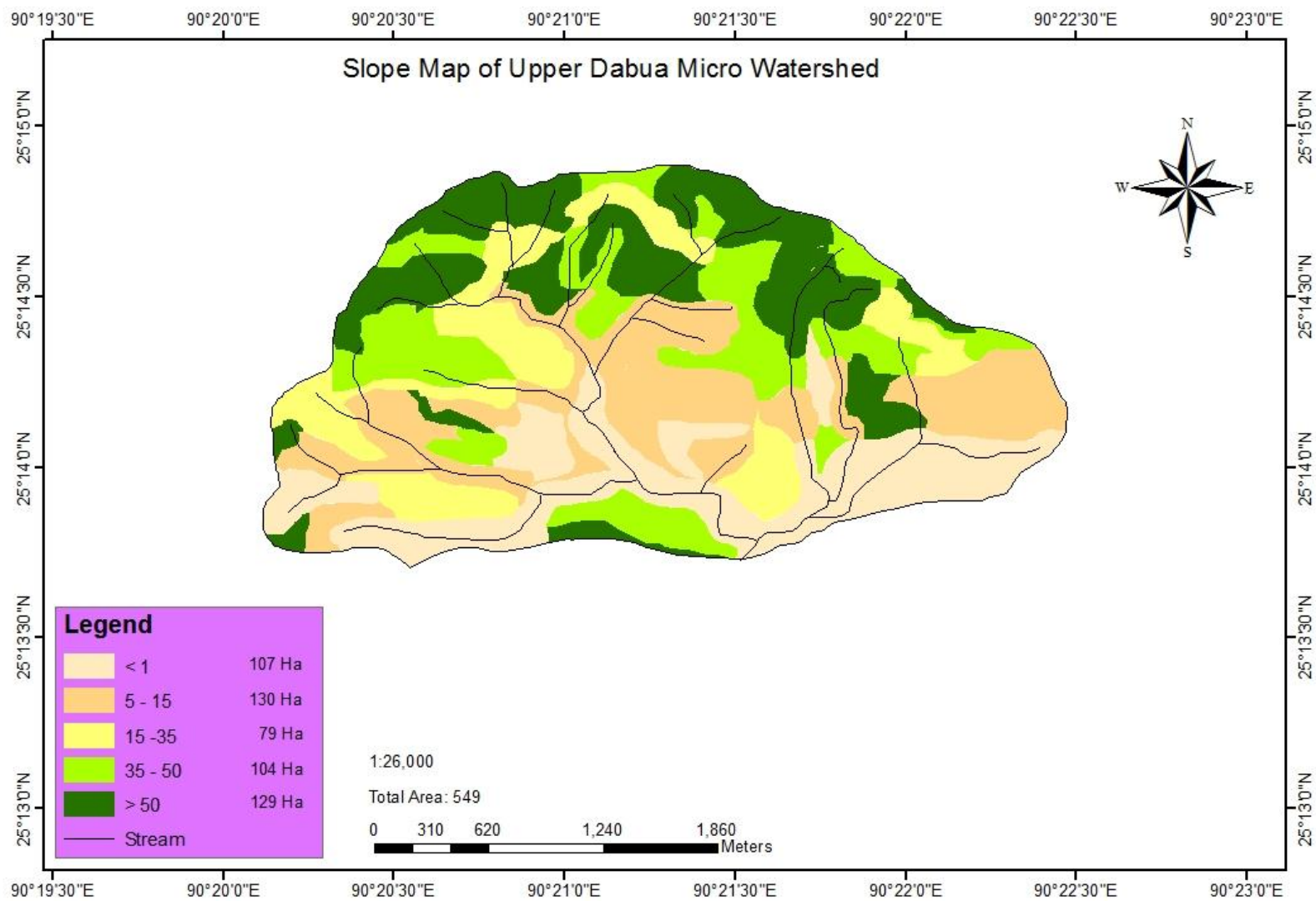
Location of Upper Dabua MWS under IWMP
South Garo Hills District

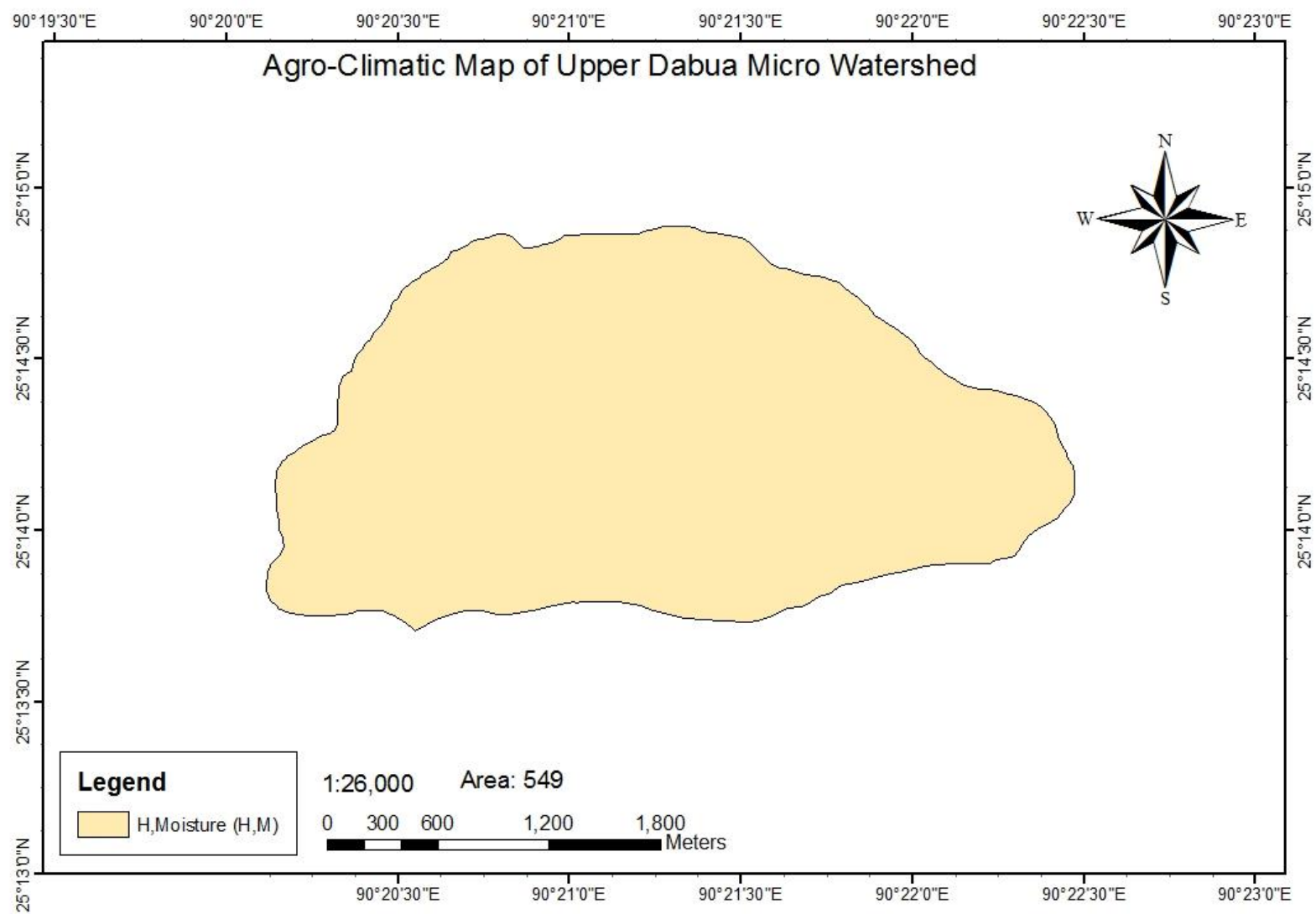


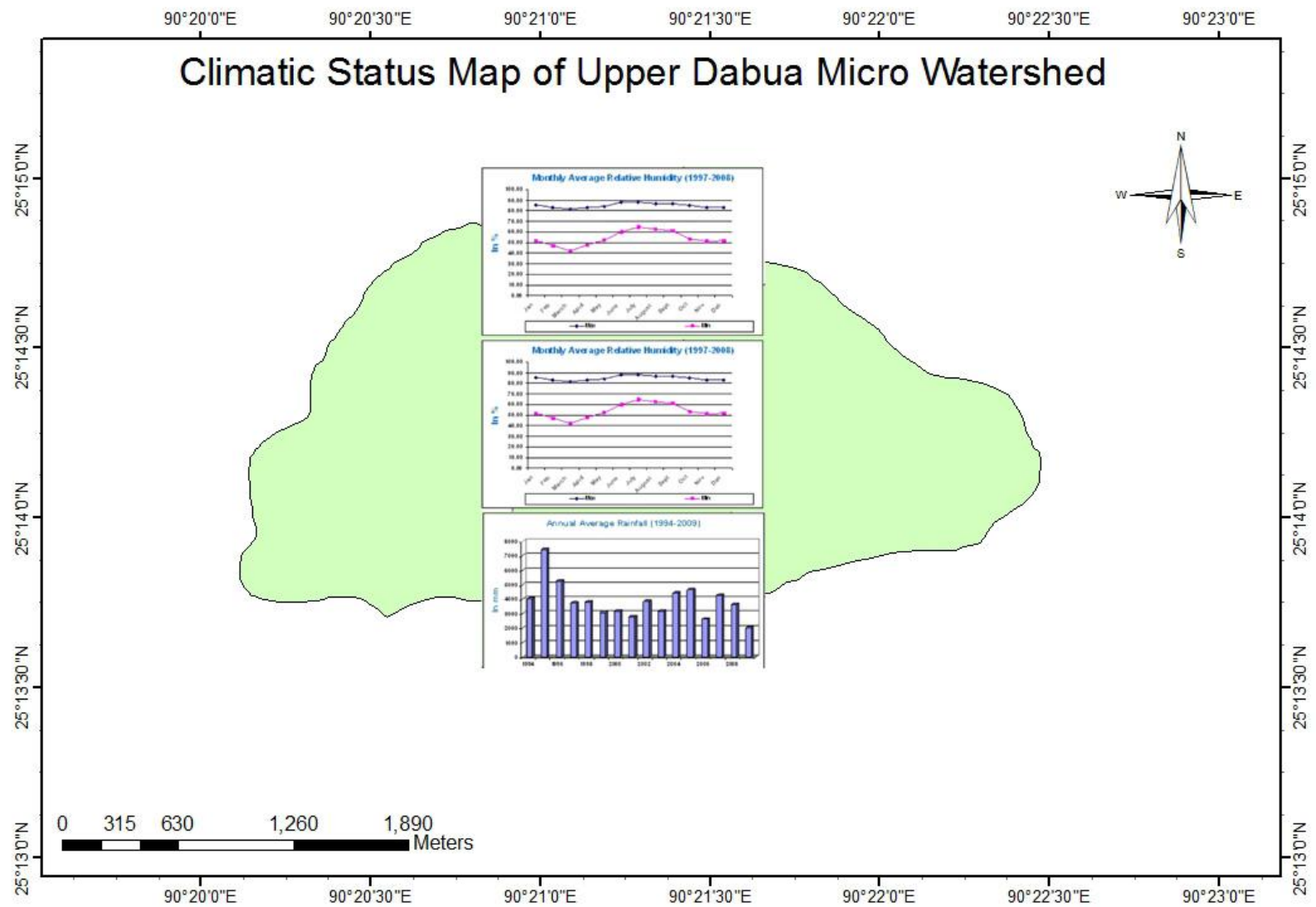


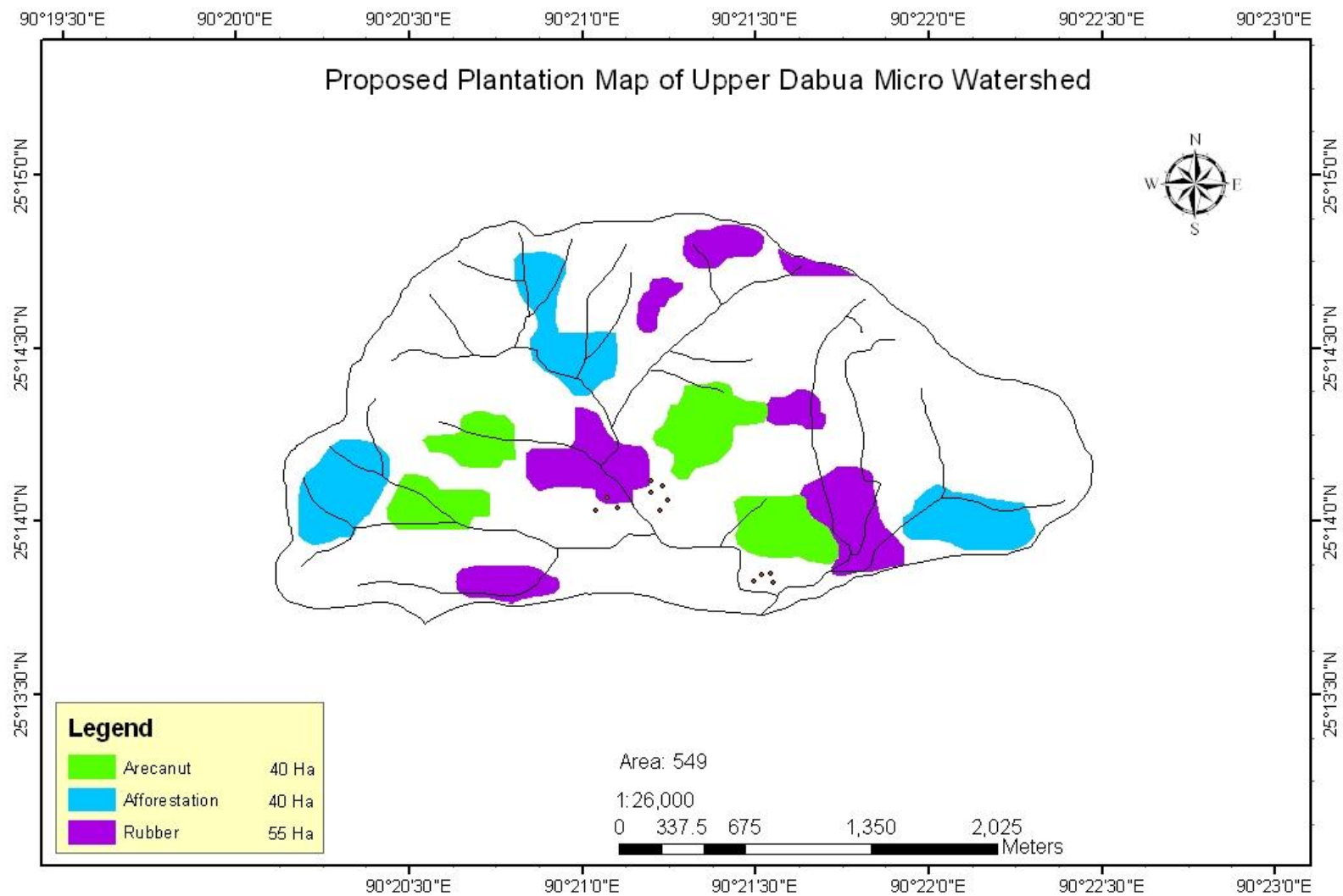


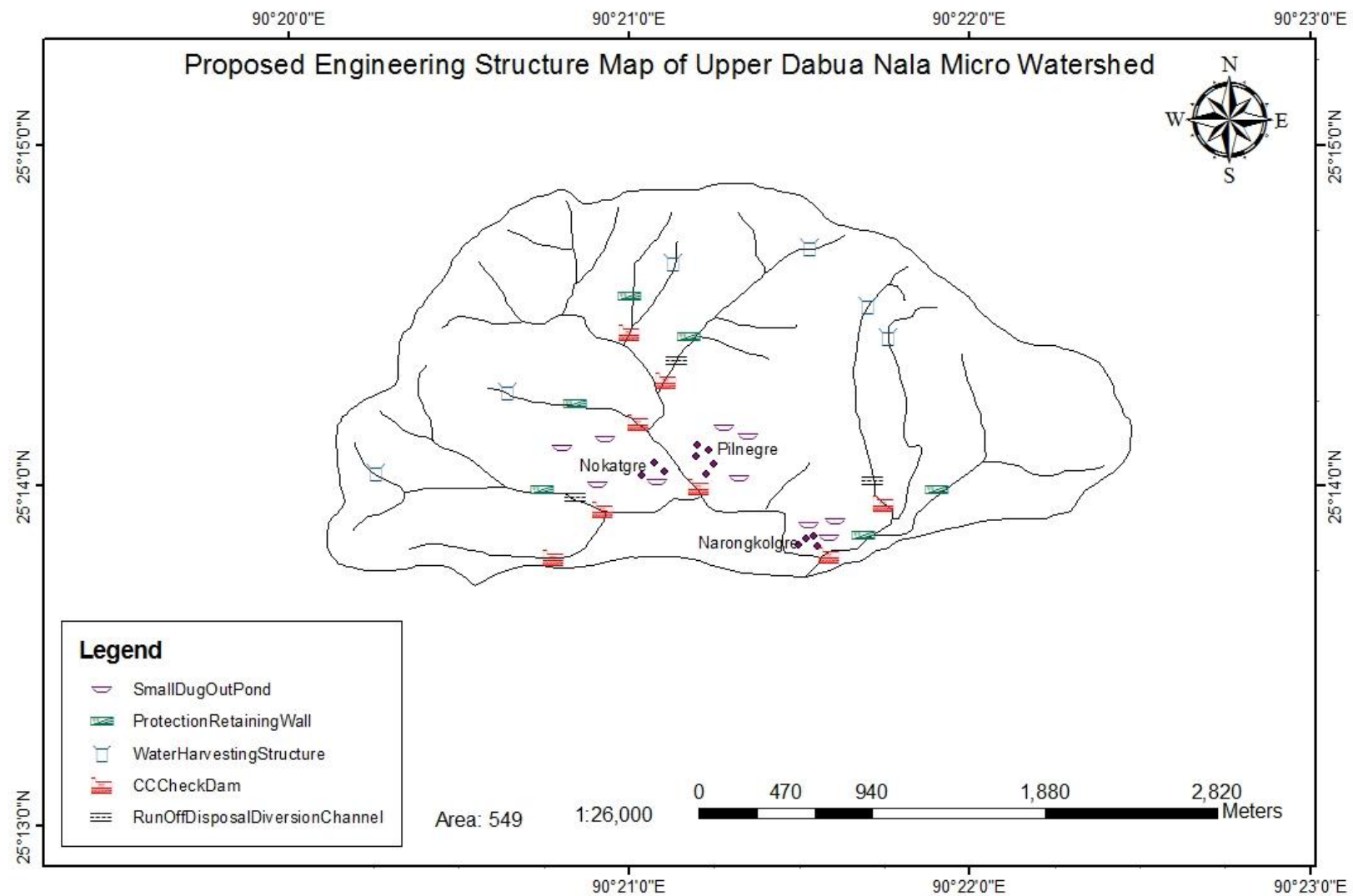












ANNEXURE II

SOCIO-ECONOMIC SURVEY DETAILS

SOCIO ECONOMIC SURVEY

NAME OF THE VILLAGE: - NARONGKOLGRE

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. Jagan Marak	4	5	9	Farmer	2	8	3	0	10	34,000.00
2	Shri. Sonaram Marak	3	1	4	Farmer	1.5	10	4	0	8	37,000.00
3	Shri. Grebith Marak	1	1	2	Farmer	0.5	6	2	4	0	35,000.00
4	Shri. Jawan Marak	3	3	6	Farmer	1.2	4	6	0	16	26,000.00
5	Shri. Obinath Marak	3	3	6	Farmer	1.3	14	5	0	22	29,000.00
6	Shri. Ringran Marak	1	4	5	Farmer	2	0	5	7	16	32,000.00
7	Shri. Nengson Marak	2	3	5	Farmer	2	7	4	0	11	35,000.00
	TOTAL	17	20	37		10.5	49	29	11	83	2,28,000.00

SOCIO ECONOMIC SURVEY

NAME OF THE VILLAGE: - NOKATGRE

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	Smt. Jangka Sangma	5	6	11	Farmer	2	8	3	5	17	39,000.00
2	Shri. Namseng Sangma	1	1	2	Farmer	1	6	3	6	14	35,000.00
3	Shri. Nangran Marak	2	5	7	Farmer	2	4	4	2	16	29,000.00
4	Shri. Sneng Marak	3	5	8	Farmer	0.75	6	2	3	11	30,000.00

5	Shri. Dilip Sangma	1	1	2	Farmer	0.5	4	3	5	20	31,000.00
6	Shri. Changman Marak	1	1	2	Farmer	1	7	1	4	16	32,000.00
7	Shri. Ragan Marak	2	3	5	Farmer	0.75	3	2	5	14	25,000.00
8	Shri. Predith Marak	2	5	7	Farmer	0.5	0	4	3	17	26,000.00
9	Shri. Nonjing Marak	4	2	6	Farmer	2	5	3	0	12	38,000.00

10	Shri. Robirth Sangma	3	3	6	Farmer	2	6	4	6	17	33,000.00
11	Shri. Bestar Sangma	1	1	2	Farmer	0.5	11	3	0	22	37,000.00
12	Shri. Bensing Marak	3	1	4	Farmer	2	10	3	3	0	35,000.00
	TOTAL	28	34	62		15	70	35	42	176	3,90,000.00

SOCIO ECONOMIC SURVEY

NAME OF THE VILLAGE: - PILNEGRE

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. Ajit Marak	3	4	7	Farmer	1.3	14	4	5	18	32,000.00
2	Shri. Nollet Momin	3	2	5	Farmer	0.5	5	2	0	16	34,000.00
3	Shri. Dipson Sangma	2	1	3	Farmer	1.4	11	4	0	5	39,000.00
4	Shri. Ringgan Sangma	2	5	7	Farmer	2	4	2	0	11	34,000.00
5	Shri. Podit Marak	1	1	2	Farmer	1	5	1	0	15	32,000.00
6	Shri. Ranmi Sangma	1	1	2	Farmer	1.2	17	4	0	0	32,000.00

7	Shri. Malen Sangma	1	1	2	Farmer	0.5	7	4	5	12	35,000.00
8	Shri. Wibing Sangma	1	2	3	Farmer	2	7	2	5	21	36,000.00
9	Shri. Enjoy Marak	2	4	6	Farmer	1.4	3	2	7	16	34,000.00
10	Shri. Joronto Marak	2	3	5	Farmer	1.3	11	4	0	21	39,000.00
11	Shri. Jackman Sangma	1	3	4	Farmer	1	4	2	0	0	32,000.00
	TOTAL	19	27	46		13.6	88	31	22	135	3,79,000.00

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

$$\begin{array}{rclclcl}
 1 & \times & 17 & \times & 0.5 & \times & 1.25 & = & 10.625 & \text{m}^3 \\
 @ & 34 & & & / \text{m}^3 & & & = & \text{Rs} & 361.25
 \end{array}$$

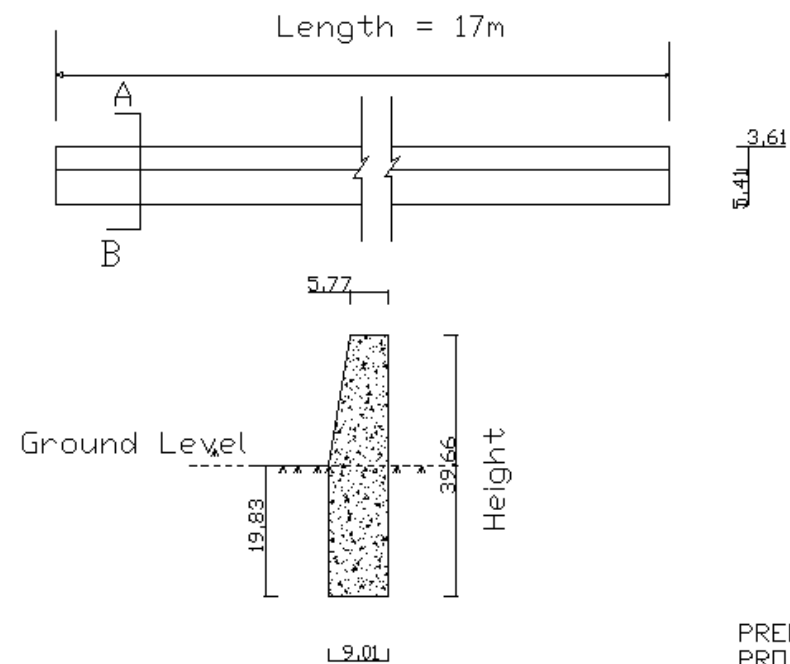
2/137 Plain Cement Concrete 1:3:6 nominal mixed in foundation with crushed stone aggregates 40 mm nominal size mechanically mixed etc including curing for 14 days

$$\begin{array}{rclclcl}
 1 & \times & 17 & \times & 0.5 & \times & 1.25 & = & 10.625 & \text{m}^3 \\
 1 & \times & 17 & \times & \frac{.5+.30}{2} & \times & 2.061 & = & \underline{14.015} & \text{m}^3 \\
 & & & & & & \text{Total} & = & 24.64 & \text{m}^3 \\
 @ & 3232 & & & / \text{m}^3 & & & = & \text{Rs} & 79,636.48
 \end{array}$$

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 m³

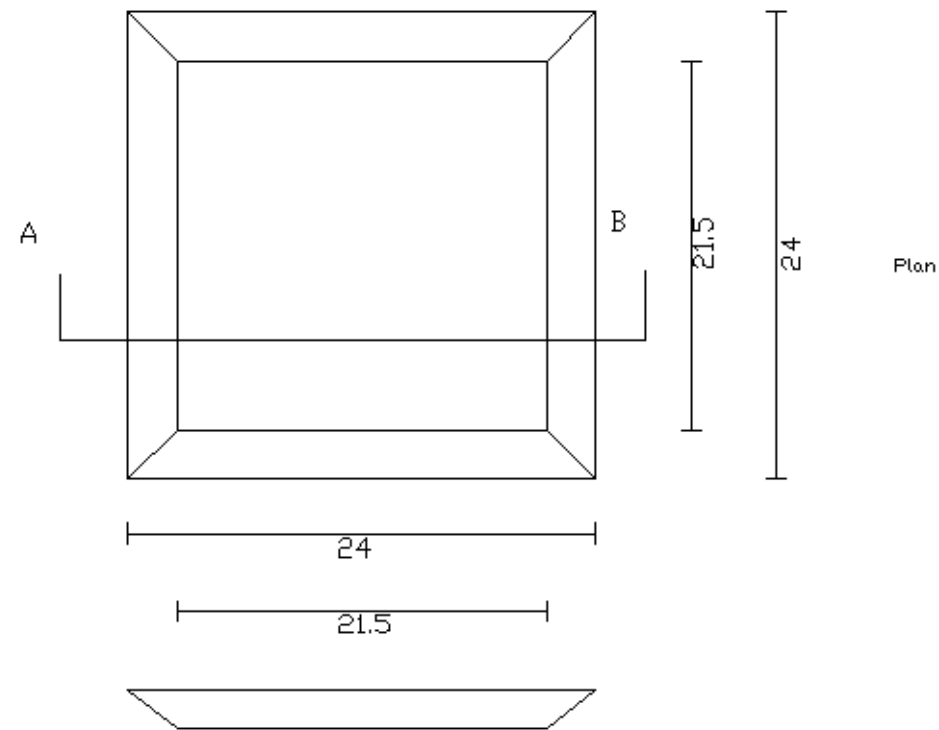
@ Rs 72 /m³ = Rs 74772

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 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 m³

@ 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	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	=	$\frac{0.54}{m^3}$		
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..									

8mm ϕ Tor Steel:

For Reservoir:

$$\begin{array}{rclclcl} 2 & \times & 18 & \times & 2.3 & = & 82.8 & \text{Rm} \\ 2 & \times & 11 & \times & 2.3 & = & 50.6 & \text{Rm} \end{array}$$

For Pipe Pedestals:

$$\begin{array}{rclclcl} 15 & \times & 4 & \times & 1.55 & = & \underline{93} & \text{Rm} \\ & & & & & = & 226.4 & \text{Rm} \end{array}$$

$$\text{@ } 0.39 \text{ kg/Rm} = \text{Rs } 88.3 \text{ Kgs.}$$

8mm ϕ Tor Steel

For Reservoir

$$\begin{array}{rclclcl} 2 & \times & 14 & \times & 1.4 & = & 39.2 & \text{Rm} \\ 2 & \times & 9 & \times & 2.4 & = & 43.2 & \text{Rm} \\ 2 & \times & 10 & \times & 2.4 & = & 48 & \text{Rm} \\ 2 & \times & 10 & \times & 1.4 & = & \underline{28} & \text{Rm} \\ & & & & & = & 158.4 & \text{Rm} \end{array}$$

$$\text{@ } 0.39 \text{ kg/Rm} = \text{Rs } 61.8$$

6mm ϕ Tor Steel

For Pipe Pedestals:

$$\begin{array}{rclclcl} 15 & \times & 9 & \times & 0.5 & = & 67.5 & \text{Rm} \end{array}$$

$$\text{@ } 0.22 \text{ kg/Rm} = \text{Rs } 14.9$$

$$\begin{array}{rcl} \text{Total} & = & 164.922 \\ & & 1.64 \text{ Quintal} \end{array}$$

$$\text{@ } 5982.36 \text{ /qtl} = \text{Rs } 9811.0704$$

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)			

The drawing consists of two views: a Plan view at the top and a Cross Section at A-B at the bottom.

Plan View: Shows a rectangular structure with a central 'Reservoir' and an outer 'Platform'. The total width is 36.87, composed of 17.53 on the left and 19.34 on the right. The total length is 21.03, composed of 14.02 and 7.01. A smaller inner rectangle has a width of 8.18 and a length of 14.02. A dimension of 1.45 is shown at the top left, and 1.50 at the bottom left.

Cross Section at A-B: Shows the vertical profile. The total height is 32.68, with a lower section of 29.21. The base width is 36.87, with 17.53 on the left and 19.34 on the right. It shows a sloped roof, a horizontal section labeled '15cmX15cm Drain', and 'C.C 75mm Stone Pitching' at the base. Reinforcement bars are shown as circles with cross-hairs, labeled '8mm dia @ 15cm c/c'.

Dimensions:

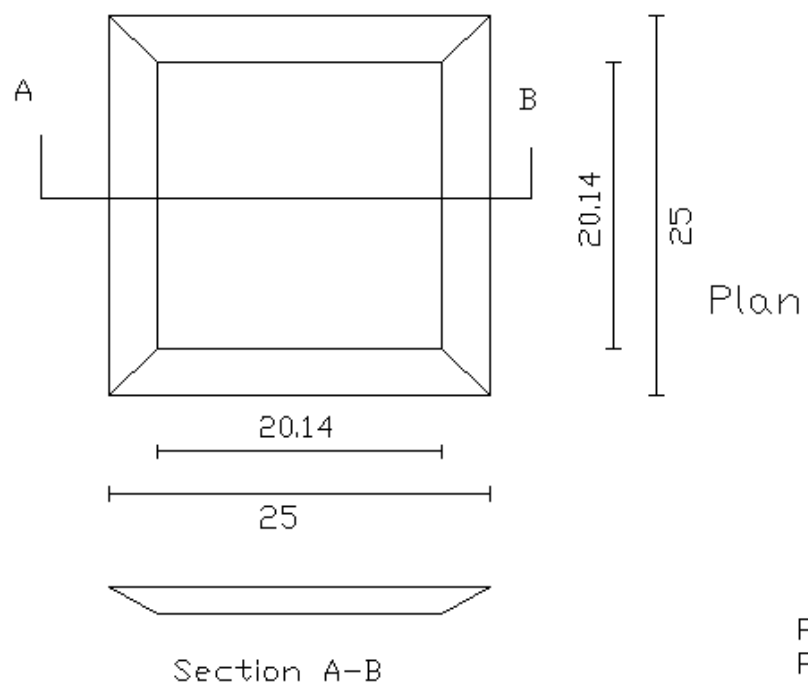
- Plan View: 17.53, 21.03, 14.02, 36.87, 8.18, 1.45, 1.50, 14.02, 21.03.
- Cross Section: 15cmX15cm Drain, C.C 75mm Stone Pitching, 17.53, 29.21, 32.68, 36.87, 8mm dia @ 15cm c/c.

106

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)	Eathwork 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	$\frac{(25 \times 25)}{2} \times \frac{(20.14 \times 20.14)}{2}$	x 2	=	1030.619 /m ³
	@	72	/m ³	=	Rs 74204.57 /m ³
	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 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	7	x	0.15	x	0.4	=	0.42	m ³	
Wall									
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	x	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>	<u>m³</u>
											24.0327	<u>m³</u>
@			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	m³		
	2	x	3.5	x	<u>0.4</u>	+	x	1.7	=	<u>7.74</u>	m³	
					<u>0.9</u>							
					2					14.04	m³	
@	2263	m³								=	Rs	31772.52

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

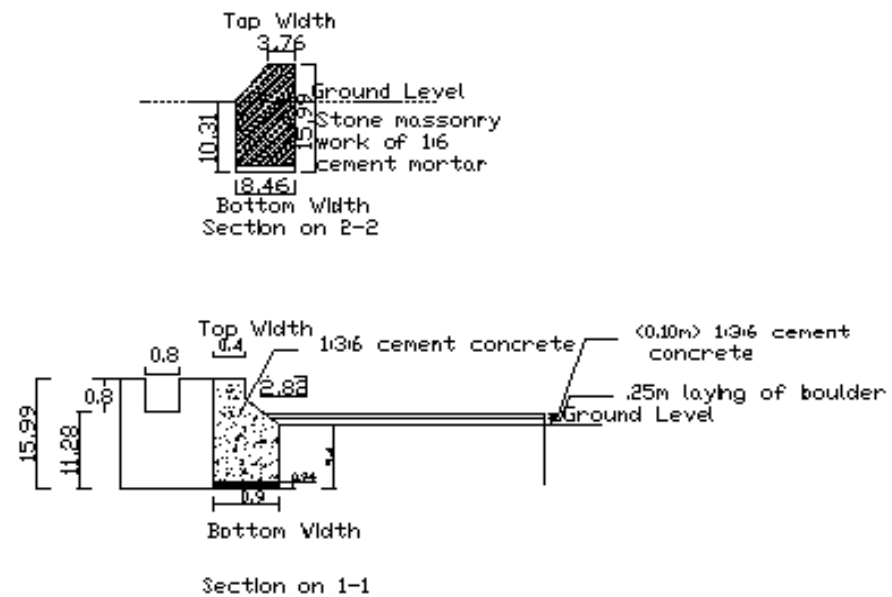
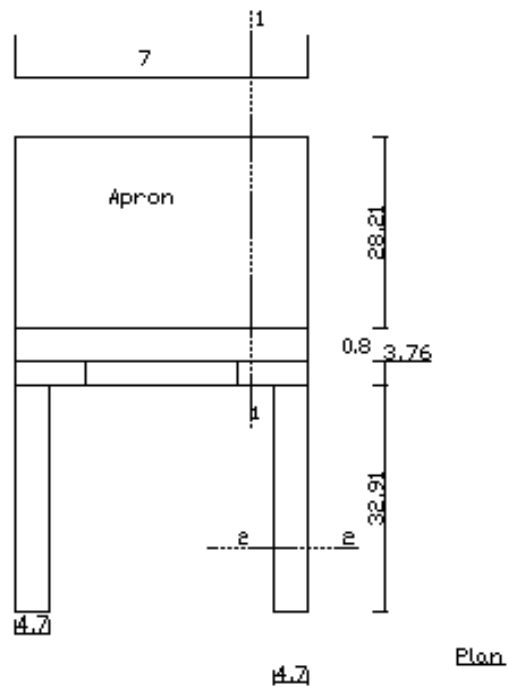
Dam	2	x	7	x	1.7	=	23.8	m ³
	7	x	4	x	0.3	=	8.4	m ³
	2	x	0.6	x	0.3	=	0.36	m ³
	1	x	5	x	0.6	=	3	m ³

C.C	2	x	8.48	x	0.8	=	13.568	m ³
Channel	1	x	8.48	x	0.8	=	<u>6.784</u>	m ³
							55.912	m ³
@	74					=	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	x	0.8	x	0.8	=	5.4272	m ³
@	34					=	Rs	185
						Total	=	Rs 1,19,996.82
						say		Rs 1,20,000
(Rupees one lakh twenty thousand) only								

PLAN AND SECTION OF CEMENT CONCRETE CHECK DAM



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.

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

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

- 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

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

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

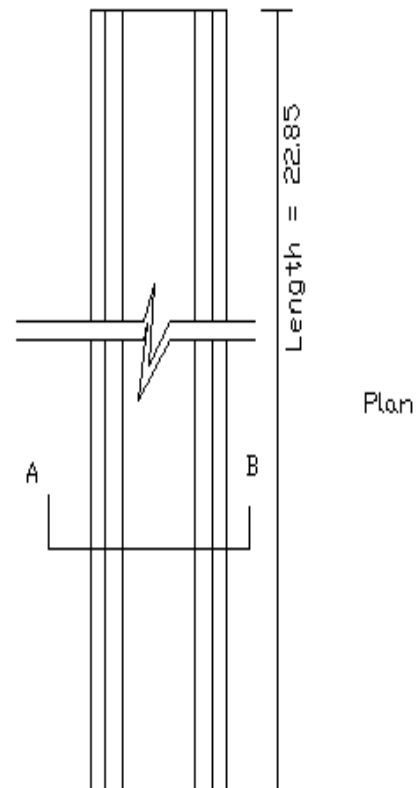
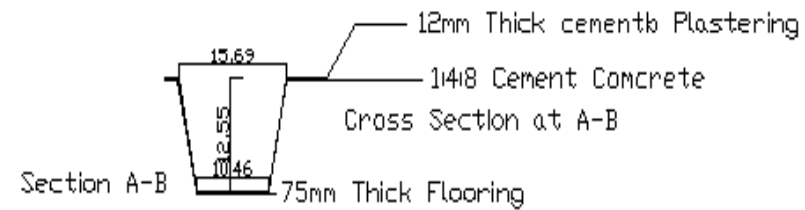
Rs. 4,125.80

Total = Rs. 53,292.77

Say Rs. 53,000.00

(Rupees Fifty three thousand 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

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

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

4.94 m³

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

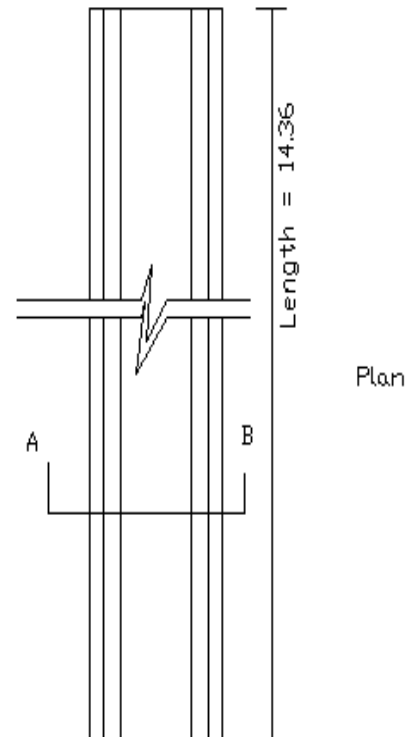
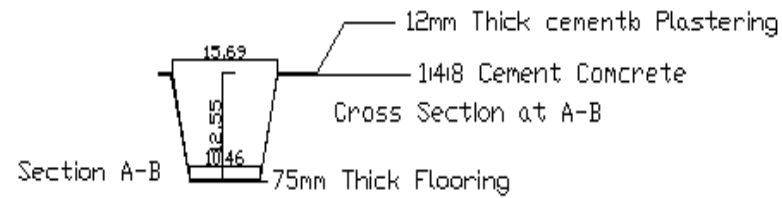
Rs. 2,592.84

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

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.

$$1 \times 11.15 \times \frac{1.50 + 1.00}{2} \times 1.2 = 16.725 \text{ m}^3$$

Rs.	34	/m ³	Rs.	568.65
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- 2/103. Providing and laying of dry rubble flooring completed as per drawing and technical specifications.

$$1 \times 11.15 \times 1 = 11.15 \text{ m}^3$$

Rs.	852 /m3	Rs.	9,499.80
-----	---------	-----	----------

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

Cement procured

1	x	11.15	x	1	x	0.1	=	1.115	m ³
2	x	11.15	x	1.22	x	0.1	=		m ³
								2.7206	
								<hr/>	
								3.84	m ³

Rs. 3630 /m³

Rs. 13,923.23

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

$$2 \times 11.15 \times 1.22 = 27.2$$

Rs. 74 /m³

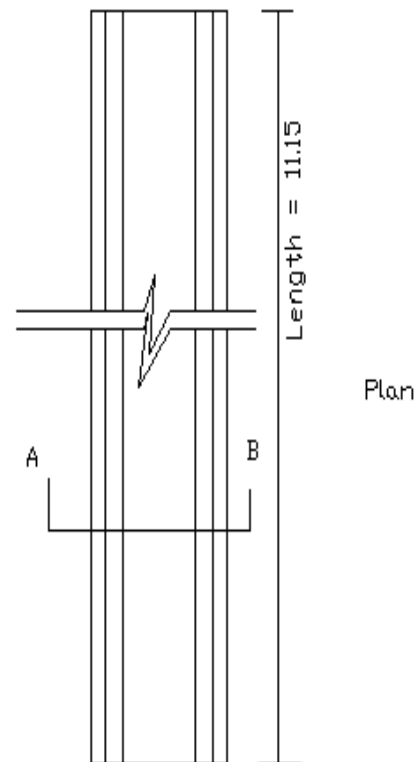
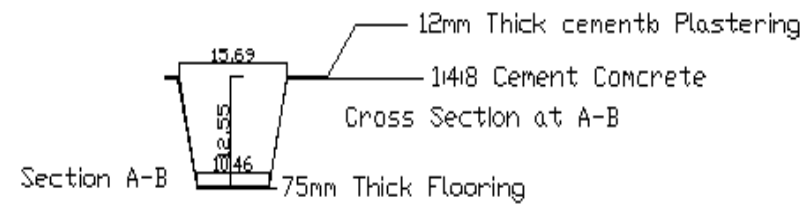
Rs .2103.24

Total = Rs.26004.92

Say Rs. 26,000.00

(Rupees Twenty six thousand) 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 Upper 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 Narongkolgre, Pilnegre & Nokatgre 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 Upper 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. Singran Marak		Chairman	M	ST	Class VIII
		2. Shri. Harlow D. Sangma		Secretary	M	ST	P.U Passed
		3. Shri. Kai Raksal Sangma		Member	M	ST	B.C.A
		4. Shri. Predith Marak		Member	M	ST	Class VII
		5. Shri. Changman Sangma		Member	M	ST	Class VII
		6. Shri. Nolet Momin		Member	M	ST	ClassV
		7. Shri. Brister Sangma		Member	M	ST	Class VI
		8. Smt. Ningji Sangma		Member	F	ST	Class VI
		9. Smt. Sengji Sangma		Member	F	ST	Class V
		10. Smt. Gresilin Sangma		Member	F	ST	Class VI

RI. No. 3. Integrated water Shed management Programme (I. W. M. P) Longdamrangna Gort-na dingtangmancha lakChakaniko kana jinma mamneke jak Longe kalChakangaha.

Ako zipper Sakua Micro water Shed ho nagatanina Nangongko/gne + Pelnigre + Samal Nokatgre Longni mandarang la programmeo pangChake Litsi s (Longa)- na dingtang- 2 Projectrangko kana tik kaaha.

Projectrang:-

1. Rubber plantation
2. Ringani Chi (water sanitation)
3. Rama jallang (Road & communication)
4. Amnesant plantation.
5. Foot bridge.

Ia nagimin projectrangho Gort-na Department gita Longna namdapataniho mikangChi janggi Tanganio nam-gipa gadargana ona Lokfana jinma namneke jak Onpaniko melokpa.

Chan China mangani longgani gimin Chairman antangan jinmana vote of Thanksko one meetingho bonataha.

Chairman

Singkan marak

Present Member

1. Nengson. Marak - Narongkolgre
 2. Jeekman. Sangma - Pilnigri
 3. Obemath. Sangma - Narongkolgre
 4. Briston. Sangma -
 5. Weking. Sangma - Damal Nokatgre
 6. Philipson. Sangma - Pilnigri
 7. George. Marak. - Damal Nokatgre
 8. Padith. Marak. - Pilnigri
 9. Changman. Marak. Damal Nokatgre
 10. Ringson. Marak. - Narongkolgre
 11. Injoy. Marak - Pilnigri
 12. Sunarom. Marak - Narongkolgre
 13. Sengji. Sangma - Pilnigri
 14. Medina. Sangma - Damal Nokat
 15. Polina. Sangma - Damal Nokat
 16. Xingjing. Marak - Damal Nokatgre
 17. Juelithson. Marak - Narongkolgre
 18. Makenbon. Marak - Pilnigri
 19. Pilgre Ringson Sangma
 20. Noet Morin. Pilnigri
 21. gawon Marak - Narongkolgre
 22. Ragen Marak. T.J. of Damal Nokatgre
 23. Jagan Marak. Narongkolgre
- P.T.O

24. Singnan Hanaak — Nangongkolgue
25. Eki, Eldin Hach — Pilnigre.
26. Hinggi Sangma — Nangongkolgue
27. Predet Hach — Samelkolegole
28. Maselina Sangma — Pilnigre
29. Wansilla Sangma pilnigre
30. Bonigilla Sangma — Nangongkolgue

Dagan Hach

con

ike

No. Objection Certificate of Nohma.

Anga Shri Jagat Marak
Narongkolgre Hking Nohma iano indake
Lee Onenga.

Micko water Shed gita banga dingtang-2
angni Dongo namgniko kabagija projectkanglu
kam kangko kana angz mawung
Champerani dongjana.

Anga anga iano angni gisek
katong zimik Chen been bimang
onseng baljoken Lee Onenga.

Jagan Marak

Nohma
Jagan Marak
Narongkolgre A King Dand
Taka No. 17
South Sino Hill

No. objection Certificate of V.E.C

Anga Shri Neelson Narak
Narongkolgre VEC Secretary (NREGA)
Gadupara C&RD Block South Garo Hills.
iano undake lee onenga.
Micro water shed gita Narongkolgre +
Pelnigre + Samal Nokalgre Sengema
dingtang-2 Project-kangko one
Development-ko onanina anga mamungba
Chamfengani dangjawa ine anga
iano lee onenga.

Secretary
NREG, Narongkolgre + Gadupara VEC.
Gadupara C&RD Block
South Garo Hills.

No. objection Certificate of AEC

Anga Shri Benish Narak
Secretary AEC Meka-Adu.
iano indake See onnega anga angui
Area Emploment-ni niugo
Micro water Shed gita Project-kangho
Kare Songkangna Development-ni Lidingo
mamung Champengani dongjana ine
anga iano See onnega.

1. Benish Narak (Secretary)
2. Phangman Narak (member)
3. Molit Narak (member)
4. Benish Narak (member)
5. Benish Narak (member)
6. Benish Narak (member)
7. Benish Narak (member)
8. Benish Narak (member)

Secretary
Area Employment Council
Meka-Adu A.E.C. (A)
Tasitigata C. & R. D. B. 1000
C. 1000 Gato Hills.

KLNOs upper labur area water Shed Association Committeeke Luchangaha

1. Shri Sany Narak (President)
2. " Sany Narak (Secretary)
3. " Sany Narak (member)
4. " Sany Narak (member)
5. " Sany Narak (member)
6. " Sany Narak (member)
7. " Sany Narak (member)
8. " Sany Narak (member)
9. " Sany Narak (member)
10. " Sany Narak (member)

Narongkolgre + Pihigre + Samal Nokalgne
 7th Nov/2010 Larcho I.W.M.P. ni gimin.
 Nokmani Larcho meeting tome ChanChieha.

Meetingho kadetna gila Shri Singran Marakho
 jirma namnike nalkakaha.
 Chairmen Shri Singran Marak meetingho
 abachengpa Shang Sakdako ssoto biate jiphot
 ChanChieha nanggiya agendarangho ChanChidit
 angaha.

R.L NO.1 Upper Labua Micro water Shed
 Committee ko Leokangaha.

1. Shri Singran Marak (Chairman)
2. " Fredeth Marak (member)
3. " Changman Marak (member)
4. " NOlet Momin (member)
5. " Brister Sangma (member)
6. Smt Ningji Sangma (member)
7. " Sengji Sangma (member)
8. " Gresellin Sangma (member)

R.L NO.2 Upper Labua Micro water Shed Association
 Committee ko Leokangaha.

1. Shri Injay Marak (President)
2. " Jekman Sangma (Secretary)
3. " Jagan Marak (member)
4. " George Marak (member)
5. " Nenglon Marak (member)
6. " Webington Lyngma (member)
7. " Eldrin Marak (member)
8. Smt Borjilla Sangma (member)
9. " Wansilla Sangma (member)
10. " Polen Sangma (member)

Ja dongimin mandekangho jirma namnike
 jak Songe nalkakangaha.

Cont :-