

GOVERNMENT OF INDIA



DETAILED PROJECT REPORT

ON

DABIT MICRO WATERSHED

UNDER

INTEGRATED WATERSHED MANAGEMENT PROGRAMME(IWMP-III)

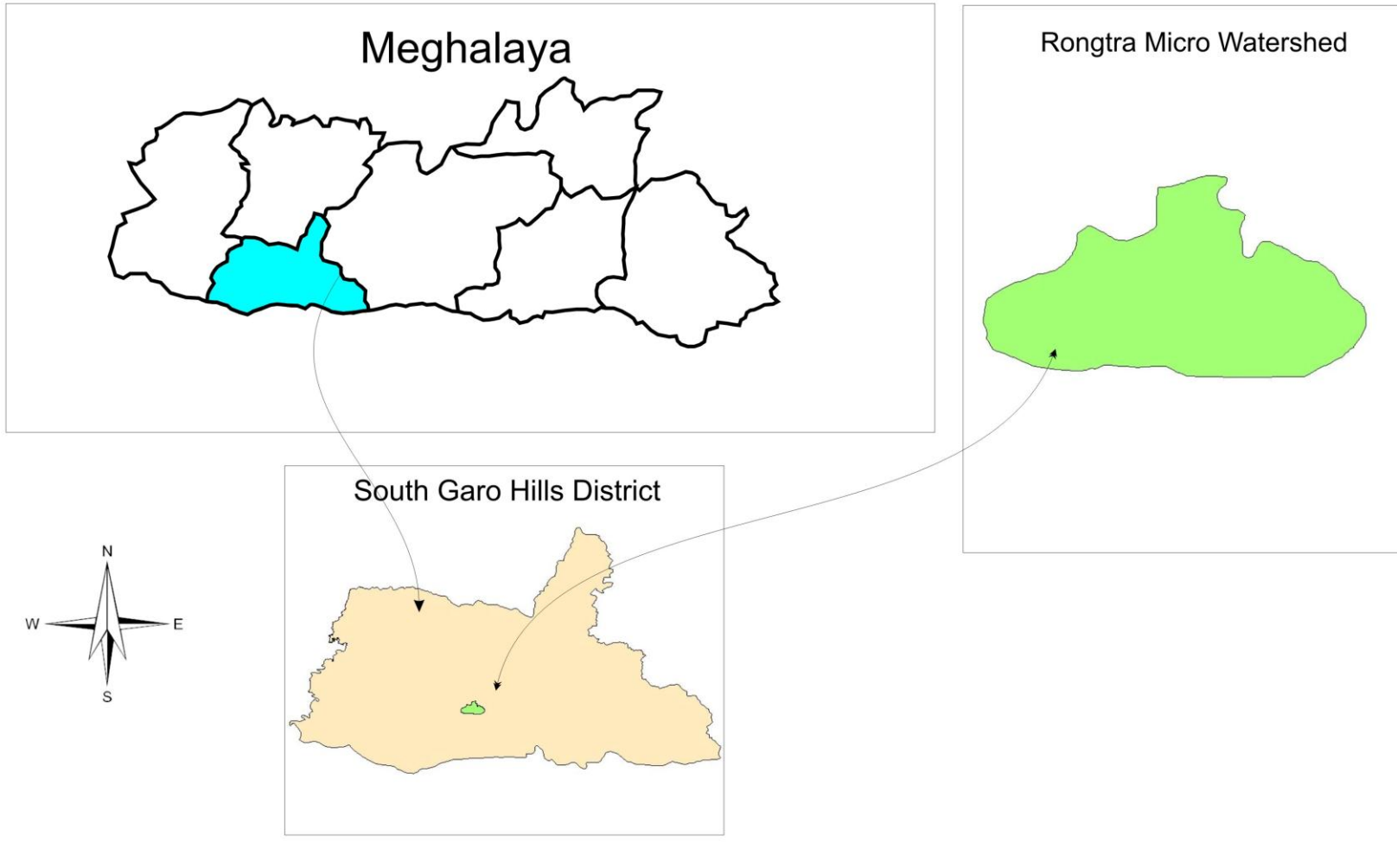
2010-2011

BAGHMARA SOIL & WATER CONSERVATION (CC) DIVISION.

SOUTH GARO HILLS

MEGHALAYA

Index Map of Rongtra MWS under IWMP-III
South Garo Hills District



SUMMARY

Name of the Sate	:	Meghalaya
Name of the District	:	South Garo Hills District
Name of the C&RD Block	:	Baghmara
Name of the Villages	:	Dabit Ampangdam
Name of the Project	:	South Garo Hills – IWMP-III
Total Geographical Area	:	591 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.

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CHAPTER I

INTRODUCTION AND BACKGROUND

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INTRODUCTION AND BACKGROUND

1.1 Project Background:

The Dabit Micro Watershed (IWMP-III) project is located in Baghmara C&RD Block, South Garo Hills District of Meghalaya. Consisting of a single micro-watershed, the project area is drained by the Dabit River and its tributaries flowing in a north west to south direction. The total area is 591 Ha. with 500 to be treated under the Integrated Watershed Management Programme (IWMP).

The Project area is located at a distance of about 7 km from Baghmara C&RD Block. A total of only one village is covered under the project i.e-
Dabit Ampangdam

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

1.3 Need and Scope for Watershed Development:

The Dabit Micro-watershed falls under the High Priority category as per the prioritization of watersheds by the North-East Space Application Centre (NESAC). The village do not have pucca or (all weathered road) connectivity. The farmers are all marginal and 126 households are below the poverty line, which is 100% of the total population. 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 depend either on springs and tube well for fetching water even for domestic use.

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

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

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

CHAPTER II

BASIC INFORMATION OF THE PROJECT AREA

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BASIC INFORMATION OF THE PROJECT AREA

2.1 Location: The Project area is located within the area of Baghmara under the Baghmara C&RD Block, South Garo Hills District. It is situated at a distance of about 7 km from Baghmara. The geographical location is between 90° 34' 48'' to 90° 36' 59''E Longitude and 25° 12' 42'' to 25° 14' 31''N Latitude. There is only one village within the Watershed i.e –

Dabit Ampangdam

At present, this village is connected to kuccha road only.

Physiography:

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

2.2

Table 2.1: Physiographic details

Elevation (metre)	Slope Range (%)	Order of watershed Sub/Micro-watershed	Major streams	Topography
28m to 66 m	10% to 15% and 15% to 35%	Micro Watershed	Dabit Stream	Moderately Sloping

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

2.4 Soil: Soil Texture is Coarse loamy on the sloping lands. 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 severe erosion hazards. The soil nutrient status in the area shows a general trend of low phosphorous content.

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

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

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

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

1	2	3	4	5	6	7		8	9	
Sl. No.	Name of State	Name of the Agro-climatic zone	Area (in ha)	Names of the districts	Names of the Projects	Major soil types		Average annual rainfall in mm (preceding 5 years' average)	Major crops	
						a) Type	b) Area (ha)		a) Name	b) Area (ha)
1	Meghalaya	Southern Slopes and Valley	591 Ha	South Garo Hills	South Garo Hills – IWMP – III	Coarse Loamy with moderately steeply sloping on hill top and have severe erosion hazards.	591 Ha	4000 mm	Arecanut	15
									Cashewnut	14
									Cowpea	11.36
									Chilli	11.36
									Rice	19.4
									Colocasia	11.36
									Ginger	11.36
									Tapioca	11.36
									Pumpkin	11.36
									Brinjal	11.36
								Total		127.92 Ha

2.6 Agriculture: Agriculture is the primary occupation of the people in this area. The people of Dabit Ampangdam Watershed practice jhum. The jhum plots vary from 3.0 to 3.5 Ha, and are cultivated for 2-3 years. The principal agricultural crops grown of the jhum fields are Chilli, Ginger, Rice, Brinjal, Colocasia, Tapioca, Maize etc. Among Fruit crops they grow only Arecanut and Cashew nut in the watershed area. The slopes of the Dabit Ampangdam are also very suitable for arecanut, rubber, betel leaf, cashewnut etc., which contribute to the income of the people.

Table 2.4: Crop yield and production

Crops	Area (ha)	Average Yield (Qtl) per ha.	Total Production (Qtl.)
Maize	11.36	6	68.16
Turmeric	11.36	30	340.8
Colocasia	11.36	35	397.6
Rice	19.36	15	290.4
Ginger	11.36	25	284
Tapioca	11.36	30	340.8
Arecanut	15	12	180
Cashewnut	14	8	112
Chilli	11.36	4	45.44
Cow pea	11.36	15	170.4
Pumpkin	11.36	50	568
Cucumber	11.36	35	397.6
Brinjal	11.36	20	227.2
Rubber	12	12	144
Total	173.96	297	3566.4

2.7 Natural Vegetation: The tree species common to the watershed area includes – *Casia fistula*, *Dalbergia sissoo*, *Delonix regia*, *Bamboo spp.*, *Embllica officinolis*, *Tectona grandis*, *Grewia spp* etc.

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

2.9 Demographic Status: The total household in the watershed project is 126 with a total population of 746, of which 393 are male and 353 are female. The detail of the household in each of the village in the watershed project is as follows:

Village	No. of Households	No. of Male	No. of Female	Total	Average No. of family
Dabit Ampangdam	126	393	353	746	5-6
Total:-	126	393	353	746	5-6

Infrastructure facilities :

2.1.1 *Roads:* The Project Area is not connected by all weathered (Pucca) road, they depends entirely on the kutcha road connected to Baghmara.

2.1.2 *School:* There is only 1 (one) L.P School and 1(one) UP School within the Project Area run by the Government.

2.1.3 *Electricity:* Connections have been provided to this village.

2.1.4 *Health:* There is no Community Health Centre in both the villages and the local populations have to either depend on facilities available at Baghmara.

2.1.5 *Water Supply:* No Drinking water supply system has been provided by the PHE Deptt. However, the entire population 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 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 III	(i)	No. of villages connected to the main road by an all-weather road.	Nil,			
		(ii)	No. of village provided with electricity	Electricity provided			
		(iii)	No. of households without access to drinking water	126			
		(iv)	No. of educational institutions: Primary (P)/ Secondary (S)/ Higher Secondary (HS)/ Vocational institution (VI)	(P)	(S)	(HS)	(VI)
				2		-	-
		(v)	No. of village with access to Primary Health Centre	Nil			
		(vi)	No. of village with access Veterinary Dispensary	Nil			
		(vii)	No. of village with access Post Office	Nil			
		(viii)	No. of village with access Banks	Nil			
		(ix)	No. of village with access Markets/ mandis	Nil			
		(x)	No. of village with access Agro-Industries	Nil			
		(xi)	Total quantity of surplus milk	Nil			
		(xii)	No. of milk collection centres (e.g. Union (U)/ Society (S)/ Private agency (PA)/ Others (O))	(U)	(S)	(PA)	(O)
				Nil	Nil	Nil	Nil
		(xiii)	No. of villages with access to Aganwadi Centres	1No.			
		(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, and Cattle.

Table 2.6: Existing livestock population

Type of Animal	Population
Piggery	205
Poultry	825
Goat	202
Cattle	271
TOTAL	1503

2.11 Land ownership: There is primarily only one types of land holding system, namely private 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 III	(i) Large	-	-	-	-	-
		(ii) Small	-	-	-	-	-
		(iii) Marginal	126	126	-	173.96	173.96
		(iv) Landless	-	-	-	-	-
		Sub - Total	126	126	-	173.96	173.96

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 III	(i) Wasteland/ degraded land	-	-		55 Ha	-	-	-	55 Ha
		(ii) Pastures	-	-	-	-	-	-	-	-
		(iii) Private Agriculture land	8 Ha	-	-	-	8 Ha			
		(iv) Village woodlot	-	-	-	-				
		(v) Forest	-	-	-	199 Ha				154 Ha
		(vi) Village Ponds/ Tanks	-	-	-	-				
		(vii) Community Buildings	-	-	-	-		-		
		(viii) Weekly Markets	-	-	-	Baghmara				
		(ix) Permanent Markets	-	-	-	Baghmara				
		(x) Temples/ Places of worship	-	-	1	Church- 1 no				
		(xi) Others (Pl. specify)		-	-	295 Ha				283 Ha
		Total	8 Ha	-	-	557 Ha	8 Ha	-	-	492 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	=	5 Ha
b) Arecanut Plantation	=	15 Ha
c) Agricultural land-crop land-kharif crop	=	8 Ha
d) Tree clad Area-close	=	98 Ha
e) Tree clad Area-open	=	101 Ha
f) Wastelands- scrub land dense scrub	=	55 Ha
g) Rubber Plantation	=	12 Ha
h) Cashewnut Plantation	=	14 Ha
i) Other shifting cultivation current	=	125 Ha
j) Other shifting cultivation abandoned	=	<u>158 Ha</u>
Total	=	591 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 large volume crops like Arecanut, jackfruits etc. do not find their way into the market which has resulted in poor socio-economic status of the people. However, to control or to overcome the said problems an innovative approach has been formulated and documented in the Action Plan or the Treatment Plan the Detailed Project Report. The method of identification of the problems is through the Participatory Rural Appraisal Exercises conducted in all the villages within the Watershed.

CHAPTER III

PROJECT PLANNING & INSTITUTION BUILDING

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PROJECT PLANNING & INSTITUTION BUILDING

3.1 Scientific Planning

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

Table 3.1: Details of Scientific Planning and Inputs in IWMP projects:

1	2	2
Sl.No.	Scientific criteria/ inputs used	No. of projects in which scientific criteria were used
A.	Planning	
	Cluster approach	Yes
	Whether technical back-stopping for the project has been arranged? If yes, mention the name of the Institute.	Yes, NESAC, Nongsder
	Baseline survey	Yes
	Hydro-geological survey	No
	Contour mapping	No
	Participatory Net Planning (PNP)	Yes

1	2	2
	Remote sensing data-especially soil/ crop/ run-off cover	Yes
	Ridge to Valley treatment	Yes
	Online IT connectivity between	
	(1) Project and DRDA cell/ZP	Yes
	(2) DRDA and SLNA	Yes
	(3) SLNA and DoLR	Yes
	Availability of GIS layers	
	1. Cadastral map	No
	2. Village boundaries	Yes
	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 III	(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 Dabit Micro, IWMP-III was constituted with the active involvement of the villagers with strong support of the Traditional Institutions (Village Durbar/Council). The Dabit Micro Watershed Committee is yet to be registered under the Society Registration Act 1860.

Table 3.2: Details of Watershed Committees (WC):

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

- A. PNP and PRA
- C. Maintenance of Accounts
- E. Supervision of construction activities
- G. Verification & Measurement
- I. Social Audit

- B. Planning
- D. Signing of cheques and making payments
- F. Cost Estimation
- H. Record of labour employed
- J. Any other (please specify).

ii) Self Help Group

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

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

1	2	3				4				5			6		
Names of 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 III	-	-	-	-	(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-III					(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 III	3.00	Spring Chamber with 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 III	1 No of 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 (m ³)	Estima ted cost
1	Megha laya	South Garo Hills	South Garo Hills – IWMP III	(i) Tank	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(ii) Pond				-	-	-	-	-	-	-	8 Nos	40	1038 m ³	6.0	8 nos.	40	8304	6.0	
(iii) Lake				-	-	-	-	-	-	-	-	-	-	-	-	--	-	-	
(iv) Check Dam				-	-	-	-	-	-	-	8 Nos	64	1400 m ³	9.60	8 nos.	64 Ha	10400 m ³	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 m ³	6.0	8 Nos	40	9888m ³	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 m ³	9.60	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	450Rm	7.5	-	1.125	-	-	-	-	-
-	-	-	-	5 Nos	32		4.80	-	-	-	-	-
				8 Nos	40	9888m ³	6.0					
-	-	-	-	29 nos.& 450 Rm	183.5 Ha	28592 m ³	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 - IWN/MP-III	(i)Open wells		Nil		Nil		Nil			Nil		Nil		Nil						
(ii)Bore wells																							
(iii)Any others																							
1 Dug Out Pond																							
				2 Water Harvesting			8	-	6.0														
							8	-	6.0														
				Total for the project																			

4.2.3 Activities executed by User Groups in the Project Areas.

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

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 III	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 -III	75 Ha	6.975 lakh	183.5 Ha	27.525 lakh	47,985 Nos	3.0 lakh	-	-	-	-	-	-	51 units	835	12 Units	-	-	-	76 Units	-	54.75 lakh

4.2.8 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) Private	(ii) Community	(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 completion	Actual month & year of completion (mm/yyyy)
											M	W	O	T			M	W	O	T		
South Garo Hills	South Garo Hills-IWMP -III	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	126	1.5	1.3	420	588	6.3	8.82	-	100 %	8612	5741	14353	-	100%	393	353	746

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

1	2	3	4			5			6	7				8			
District	Project	Name of structure/ work	Type of treatment			Type of land			Executing agency	Target				Achievement			
			(i) Ridge area (R)	(ii) Drainage line (D)	(iii) Land dev. (L)	(i) Private	(ii) Community	(iii) Others (pl. specify)	(i) UG (ii) SHG (iii) Others (pl. specify)	Area (ha)	No. of plants	Estimated cost (Rs. in lakh)	Expected month & year of completion (mm/ yyyy)	Area (ha)	No. of plants	Expenditure incurred (Rs. in lakh)	Actual month & year of completion (mm/ yyyy)
South Garo Hills	South Garo Hills IWM P-III	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) Priv ate	(ii) Commu nity	(iii) Others (landless)		Estima ted cost (Rs. in lakh)	Expected month & year of completion (mm/yyyy)	Expendi- ture incurred (Rs. in lakh)	Actual month & year of completion (mm/yyyy)
South Garo Hills	South Garo Hills- IWMP III	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		100 %	2988	1992	4980		100 %	393	353	746

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-III	Dabit Ampangdam	CPRs	Repairing	-	3.25	100	0.1625								

CHAPTER V
PROJECT PHASING & BUDGETING

CHAPTER V

PROJECT PHASING & BUDGETING

ACTION PLAN OF DABIT MICRO WATERSHED UNDER IWMP-III

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

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
	100 %			6 %		14 %		50 %		25 %		5 %		100 %	


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


 Deputy Commissioner
 South Garo Hills, Baghmara

**ABSTRACT OF PERSPECTIVE PLAN FOR CONVERGENCE OF NREGS WITH IWMP 2010-11
AT DABIT AMPANGDAM VILLAGE UNDER DABIT MICRO WATERSHED,SGH - IWMP-III**

Name of Village : Dabit

Total No. of Job Card Holder : 130 Household

Total Wage Component @ Rs 117/- per annum in the 1st year Rs. 41,280

Total Wage Component @ Rs 117/- per annum in the 2nd year Rs. 7,02,240

Total Wage Component @ Rs 117/- per annum in the 3rd year Rs. 41280

Total Wage Component @ Rs 117/- per annum in the 4th year Rs. 0

Total Wage Component = Rs. 7,84,800

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

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

1. Wage Component Rs 784800

2. Material Component Rs. 523200

Grand Total Rs. 1308000

Grand Total (Rupees Thirteen lakh eight thousand) only

President
Dabit Ampangdam VEC
Baghmara C&RD Block
South Garo Hills.

Deputy Commissioner
South Garo Hills
Baghmara

Secretary
Dabit Ampangdam VEC
Baghmara C&RD Block
South Garo Hills.

L. N. Marak
Divisional Officer
Baghmara, Soil Cons. (C.C.) Division
Baghmara, 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 N o	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 III	2009-11	2009-11	2013-15	500 Ha	75 Lakhs	Dabit Ampangdam	173.96	Nil	326.04	-	8	98	165	229	500

Fund provision for the IWMP projects from all sources:

1	2	3		4										5
Distri ct	Name of Project s	IWMP Fund		Funds from other sources in addition to IWMP funds										Total
				Convergence funds		PPP		Community		Institutional finance		Others (Pl. specify)		
		Central Share	State Share	Name of Scheme	Amount (Lakhs)	Name of private sector	Financial contri- bution	Name	Financial contri- bution	Name	Financi al contri- bution	Nam e	Financia l contri- bution	
South Garo Hills	South Garo Hills – IWMP III	67.50 lakhs	7.5 lakhs	NREGS	7.848	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	82.848

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 III	State Bank of India, Baghmara Branch	-	Saving	L.N Marak, DS&WCO	Dabit Ampangdam, Watershed Committee	SBI, Baghmara	31679622522	Saving	Chairman W.C, Secretary W.C, Project Leader / WDT

Details of Convergence of IWMP with other Schemes:

	1	2	3	4	5	6	7
Sl. No.	District	Names of projects	Names of Departments with Schemes converging with IWMP	Fund made available to IWMP due to convergence (Rs. in lakh)	Name of activity/task/structure undertaken with converged funds	Reference no. of activity/ task/ structure in DPR [@]	Level at which decision for convergence was taken ^{\$}
					(a) Structures (b) livelihoods (c) Any other (pl. specify) [#]		
1	South Garo Hills	South Garo Hills – IWMP III	* Community Rural Development Department NREGS	5.868	(a)Dug-out Pond 3 Nos (b)Rubber Plantation 30 Ha (c)Protection Wall/Retaining Wall 3 Nos (d) C.C Check Dam 3 Nos (e) Water Harvesting 3 Nos	-	Block Level & District Level

Note: Dabit Ampangdam village

(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-III										

* 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	Women	Total	SC	ST	Others (Men)	Women	Total	SC	ST	Others (Men)	Women	Total
1.	Dabit Ampangdam		100 %	11204	7469	18673		100 %	393	353	746		100 %	393	353	746

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	300	1.875	100 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-III	Dabit Ampangdam	Community Forest	Fw	6 months	-	100 %	126	126	Nil

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

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

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

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

MFP	for right to	collect and sell minor forest produces
P	for right to	passage across the CPR
Rd	for right to	construct a road for access to individual property
S/M	for right to	collect and sell sand and minerals
T	for right to	collect timber for construction of house
Wd	for right to	collect/ use water for drinking
Wi	for right to	use water for irrigation
O	for any right other than indicated above (please specify)	

Table 7.5 Water related outcomes:

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

1	2	3	4	5	6	7	8
Names of Districts	Names of Projects	Sources	Pre-Project level	Mid-term project level	Post-Project level	Increase/decrease (Col. 8 – Col. 6)	Remarks
South Garo Hills District	SGH-IWMP III	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 III	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 III					

* 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:**Details of Kharif Crop area & Yield in the Project of Dabit Micro Watershed**

1	2	3	4						5						6					
			Pre-project						Mid-term						Post-project					
			Area (ha)		Average Yield (Qtl) per ha.		Total Production (Qtl)		Area (ha)		Average Yield per ha (Qtl)		Total Production (Qtl)		Area (ha)		Average Yield per ha (Qtl)		Total Production (Qtl)	
			Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.
South Garo Hills District	SGH-IWMP III	Rice	-	19.36	-	15	-	290.4	-	15	-	15		225	-	15		15		225
		Maize	-	11.36	-	6	-	68.16	-	8	-	6		48	-	6		6		36
		Ginger	-	11.36	-	25	-	284	-	8	-	25		200	-	6		25		150
		Turmeric	-	11.36	-	30	-	340.8	-	8	-	30		240	-	6		30		180
		Chilli	-	11.36	-	4	-	45.44	-	8	-	4		32	-	6		4		24
		Tapioca	-	11.36	-	30	-	340.8	-	8	-	30		240	-	6		30		180
		Brinjal	-	11.36	-	20	-	227.2	-	8	-	20		160	-	6		20		120
		Cowpea	-	11.36	-	15	-	170.4	-	8	-	15		120	-	6		15		90
		Pumpkin	-	11.36	-	50	-	568	-	8	-	50		400	-	6		50		300
		Colocassia	-	11.36		35	-	397.6		8		35		280		6		35		210
		Cucumber	-	11.36		35	-	397.6		8		35		280		6		35		210

Note : The Area under Jhum Cultivation decreases in the Mid Term and Post Project because of converting the area into permanent Plantation (Rubber & 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 III	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					
SI 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 III	Maize	-	11.36	-	6	-	68.16	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 III	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 III	5 yrs	LULC Map, NESAC, Umiam	2005-06	98 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 III	5 yrs	LULC Map, NESAC, Umiam	2005-06	29	75	75	75

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

Table 7.6.7 Increase/ Decrease in area under fuel-wood:

1	2	3	4			5		
District	Name of project	Duration of Project	Existing area under fodder (ha)			Achievement (ha)		
			Source/Name of report	Year of reference	Area already under fuel-wood	Area under fuel-wood proposed to be covered under IWMP	Area under fuel-wood actually covered under IWMP	Change in area under fuel-wood
South Garo Hills District	SGH-IWMP III	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 III	Cattle	271	13008	19.51	280	13440	20.16	300	14400	21.6	
		Goat	202	3030	7.57	215	3225	8.06	235	3525	8.81	
		Poultry	825	742.5	0.96	865	778.5	1.01	890	801	1.04	
		Piggery	205	4920	7.87	220	5280	8.44	250	6000	9.6	
	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 III	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 III	1.Pisciculture	1.26	1.20	0.06	-	1.26	1.20	-	120	-	120	-	12	-	12
		2.Tailoring	0.84	0.80	0.04	-	0.84	0.80	-	80	-	80	-	10	-	10
		3.Carpentry	0.3675	0.35	0.0175	-	0.3675	0.35	-	90	-	90	-	7	-	7
		4.Kitchen Gardening	0.4725	0.45	0.0225	-	0.4725	0.45	-	80	-	80	-	70	-	70
		5.Weaving	2.34	2.80	0.14		2.34	2.80	-	80	-	80	-	10	-	10
		6. Piggery	3.465	3.3	0.165		3.465	3.3		100		100		20		20
		7. Poultry	3.465	3.3	0.165		3.465	3.3		100		100		80		80
		8.Compost pit	0.1575	0.15	0.0075		0.1575	0.15		80		80		10		10
		9.Duckery	1.8375	1.75	0.0875		1.8375	1.75		100		100		70		70
		10.Betelnut Processing	2.1	2.0	0.1	-	2.1	2.0		100		100		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 III	(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	-	2	3
		(vii) Extension services	-	5	8
		(viii) Nurseries	-	1	2
		(ix) Tools/machinery suppliers	-	4	2
		(x) Price Support system	-	-	-
		(xi) Labour	-	-	-
		(xii) Any other (please specify)	-	-	-
		(A) Forward linkages		-	-
		(i) Harvesting/threshing machinery	-	-	-
		(ii) Storage (including cold storage)	-	-	-
		(iii) Road network	-	-	-
		(iv) Transport facilities	-	-	-
		(v) Markets / Mandis	-	-	-
		(vi) Agro and other Industries	-	-	-
		(vii) Milk and other collection centres	-	-	-
		(viii) Labour	-	-	-
		(ix) Any other (please specify)	-	-	-

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

Table 7.9 Abstract of outcomes:

1	2	3	4	5	6	7
Sl. No.	State	Item	Unit	Pre-project Status	Post-project Status	Remarks
		Status of water table		Very poor - poor	Good	
		Ground water structures repaired/ rejuvenated		-	6 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.	8	15	
		ii Area under double crop	Ha.	-	30	
		iii Area under multiple crop	Ha.		30	
		Net increase in crop production area		8	75	
		Increase in area under vegetation	Ha.	199	234	
		Increase in area under horticulture	Ha.	29	104	
		Increase in area under fuel & fodder		-	-	
		Increase in milk production		-	-	
		No. of SHGs	Nos.	2	15	
		Increase in no. of livelihoods	Nos.	-	126.	
		Increase in income	Rs.In lakhs	0.25-0.30	0.35-0.45	
		Migration		-	-	
		No. of school going children		80 nos.	260	
		SHG Federations formed		-	-	
		Credit linkage with banks		-	15	
		Resource use agreements		-	5	
		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 III	Dabit Micro (IWMP-III)	As per Treatment Plan	58.5 lakhs	81.9 lakhs	18.9 lakhs	-	1:1.4	-

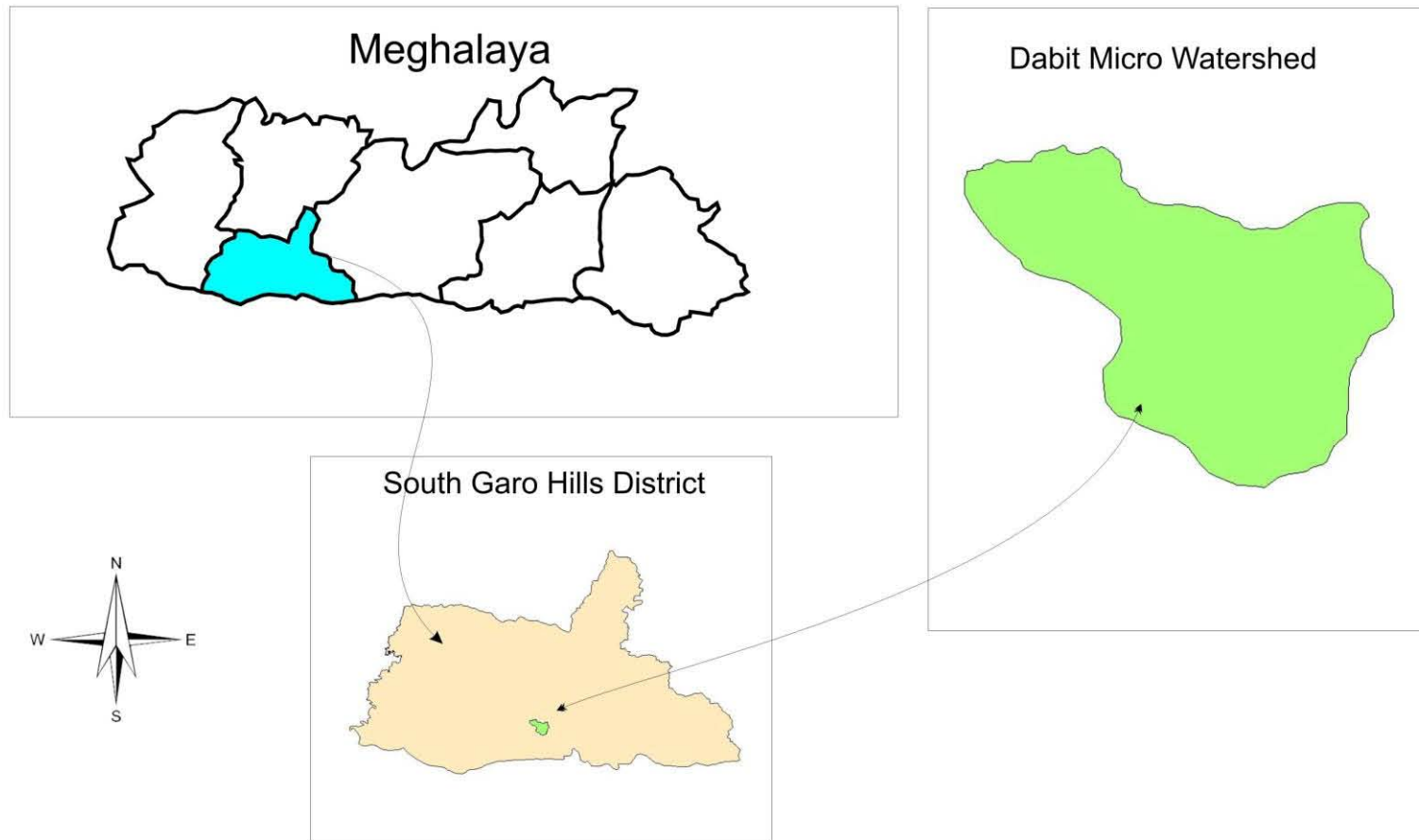
* from column no. 2, total no. of States implementing the programme, from column no. 3, total no. of Districts; from Column no. 4, no. of projects, from column no. 5, no. of WCs, from column no. 6, no. of structures/ activities, from column no. 7 to 10, category-wise# totals, may be mentioned at the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

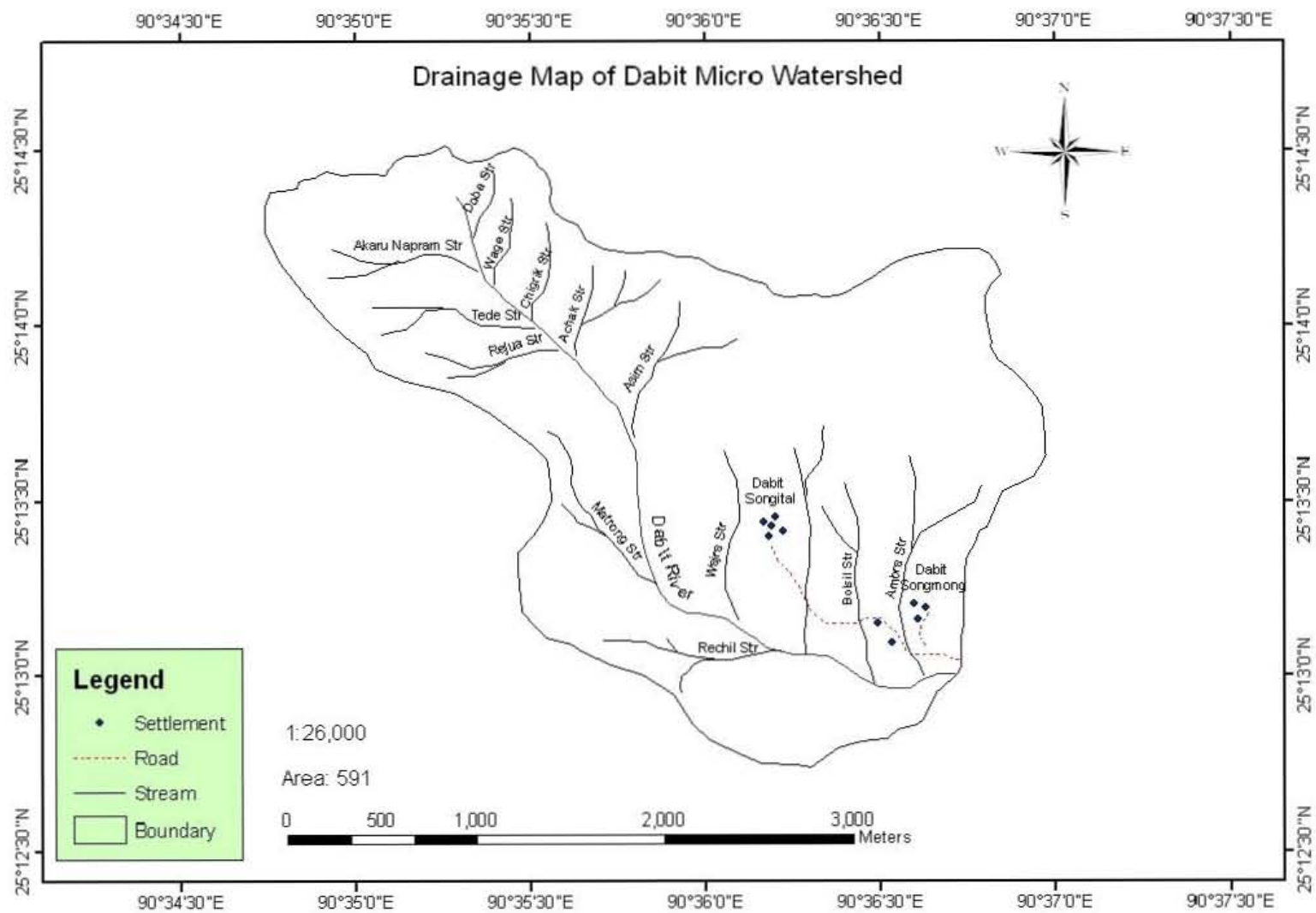
[#] B:C ratio more than 1 – cost effective
less than 1 – Not cost effective

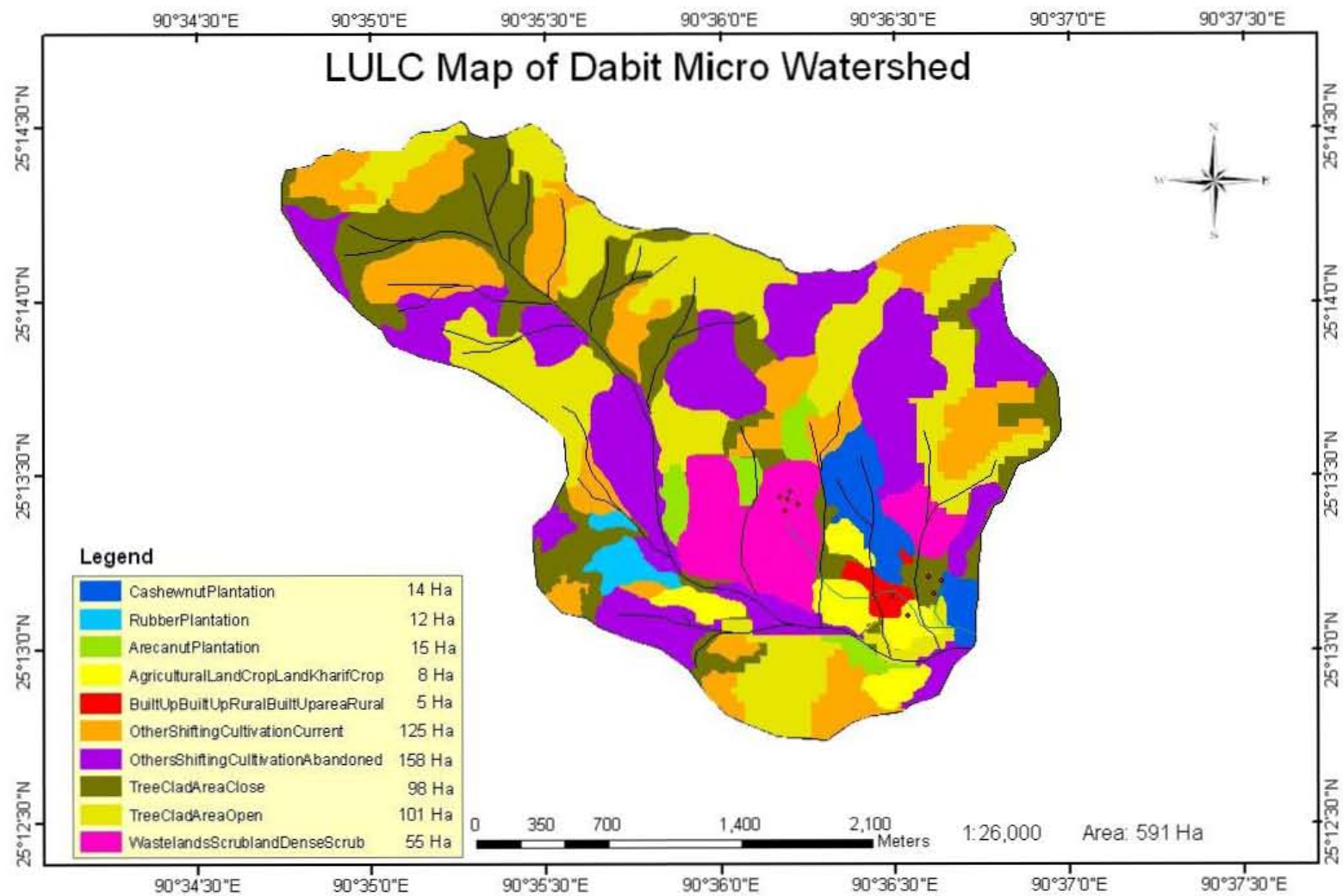
ANNEXURE I

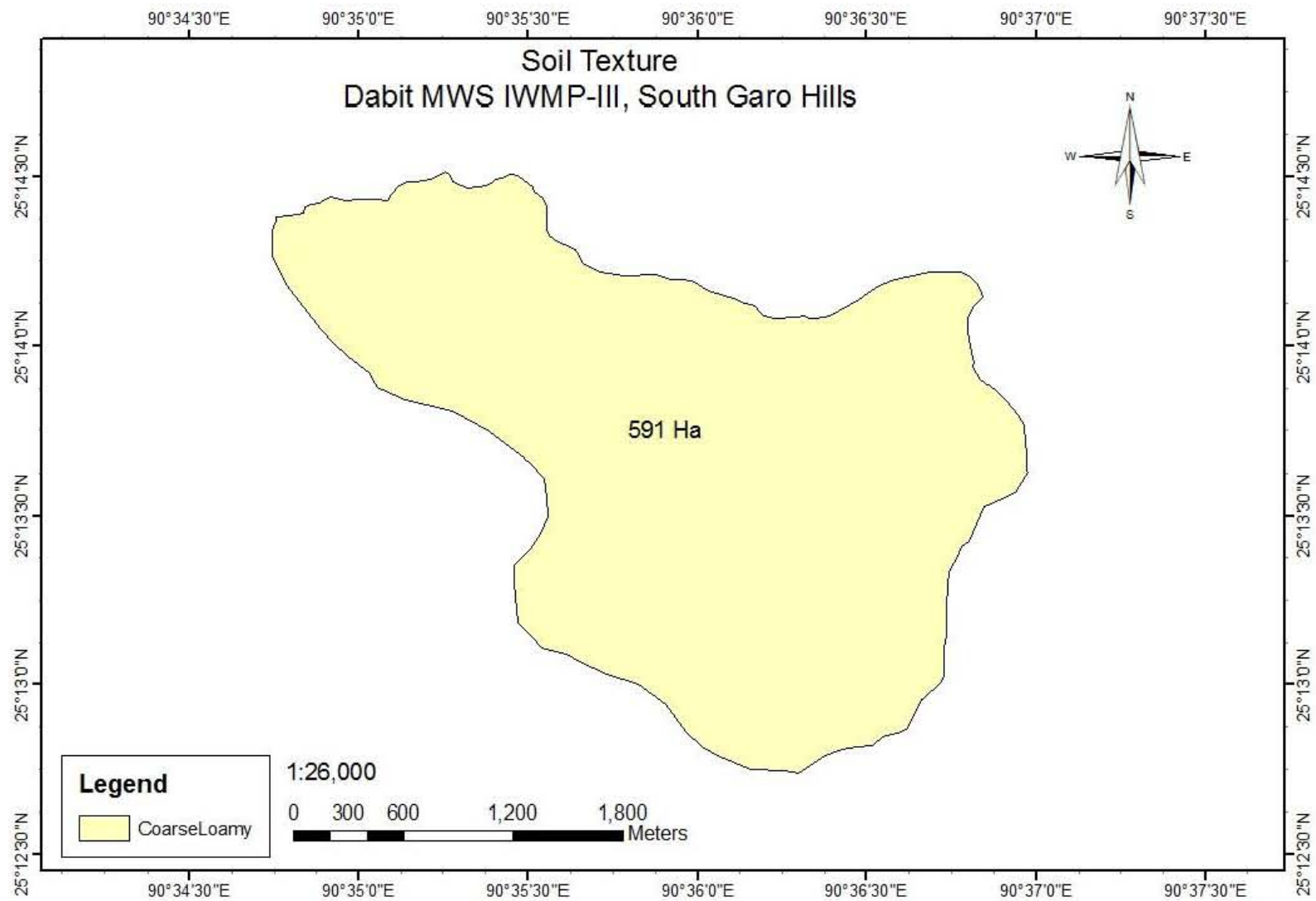
MAPS

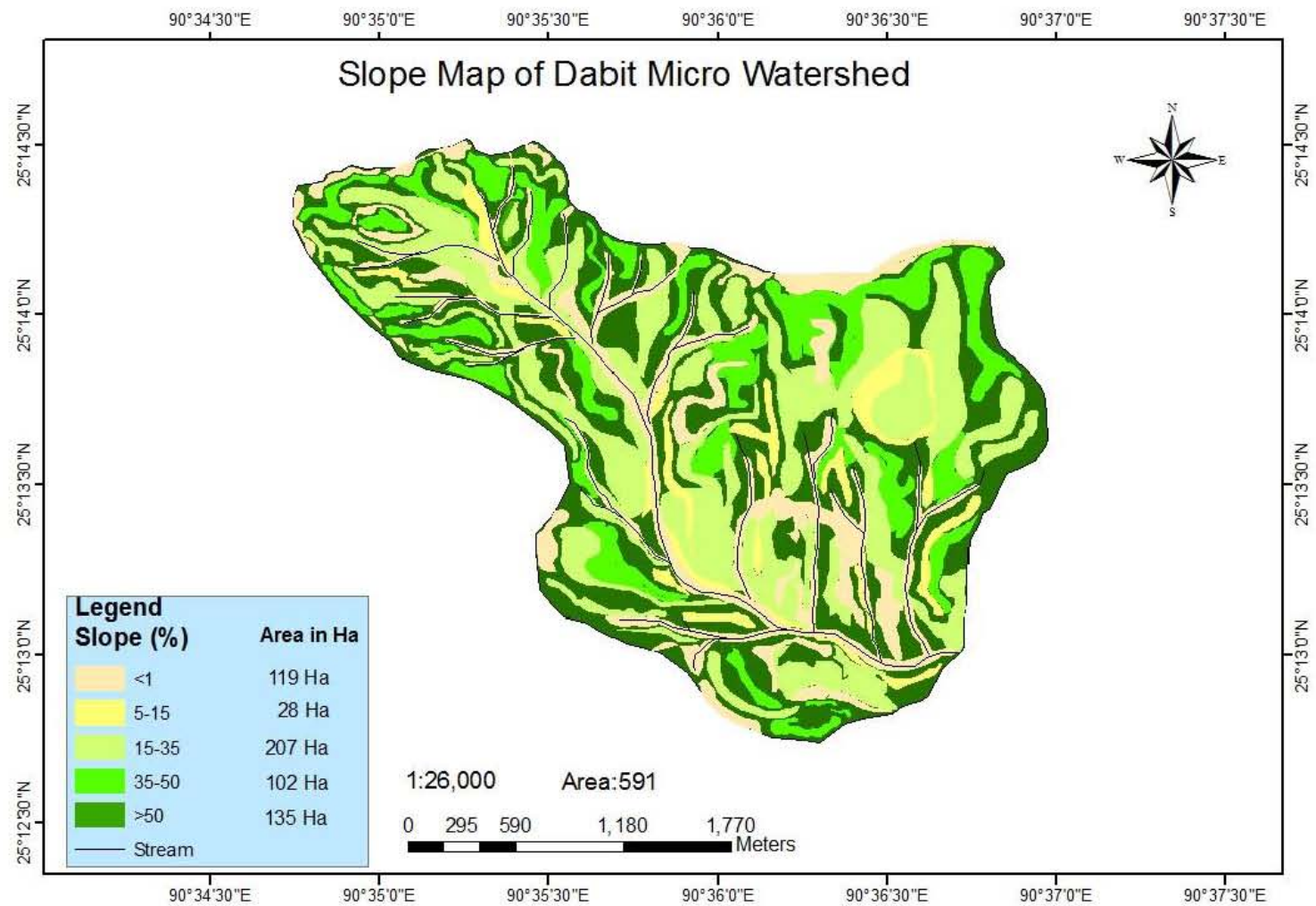
Index Map of Dabit MWS under IWMP-III
South Garo Hills District

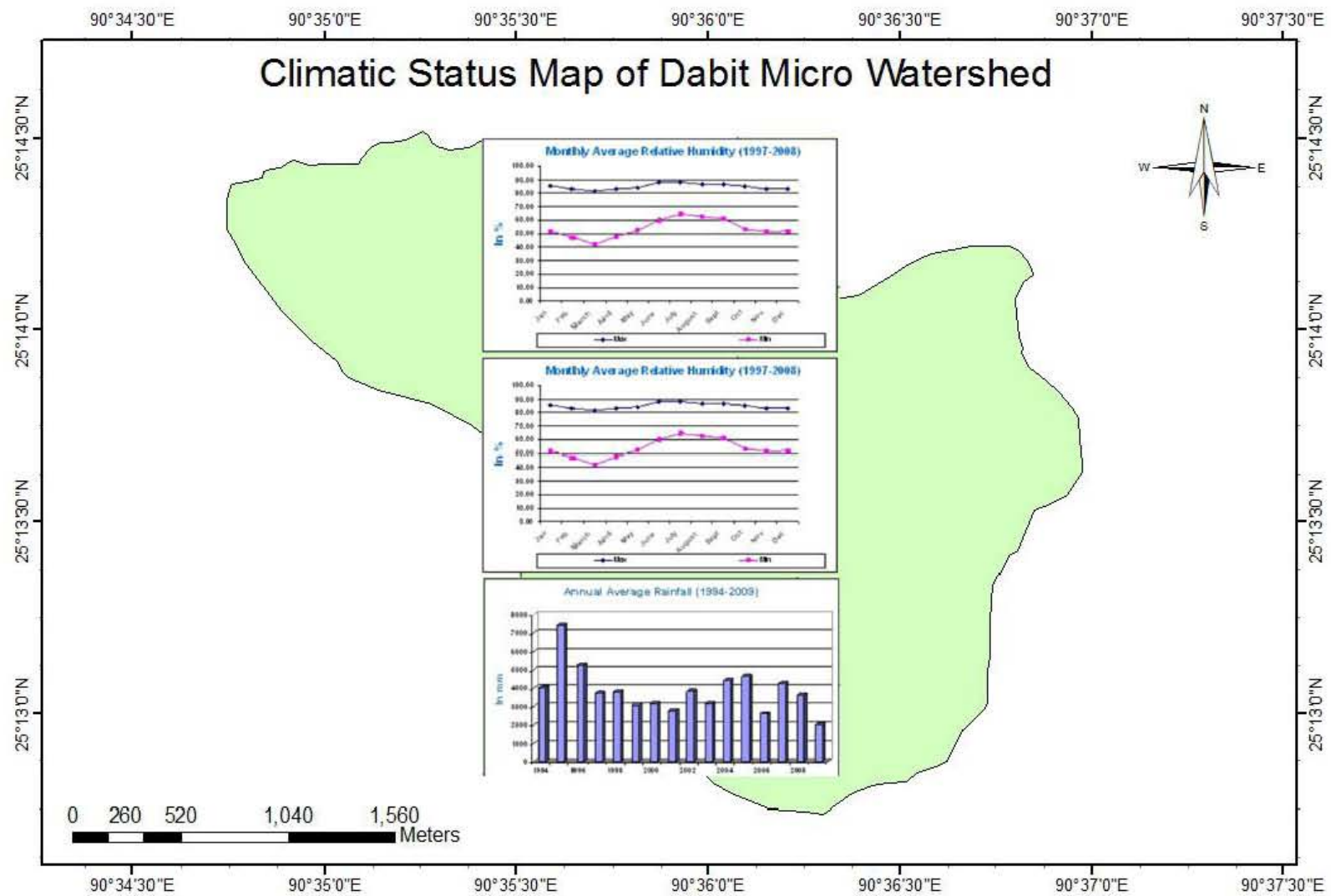


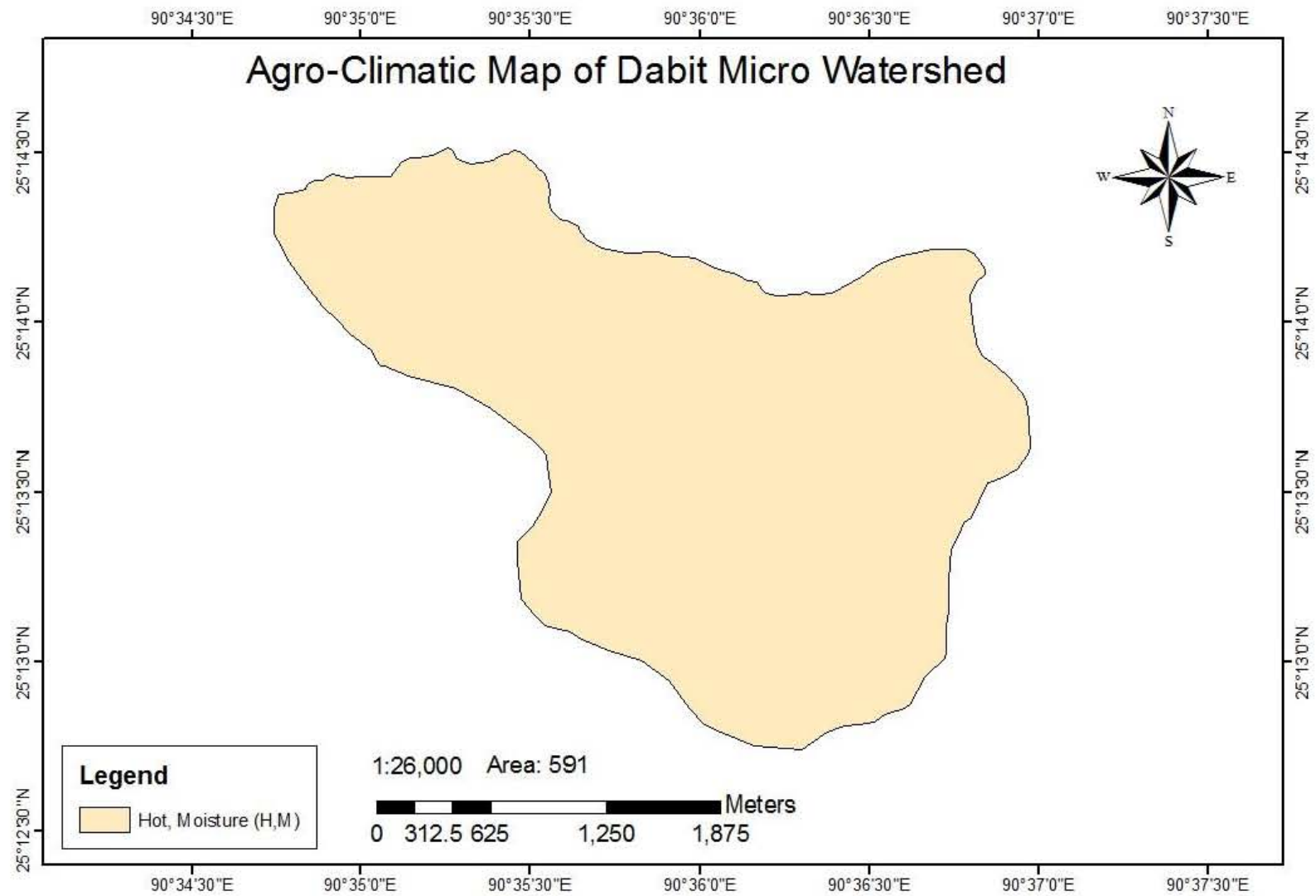


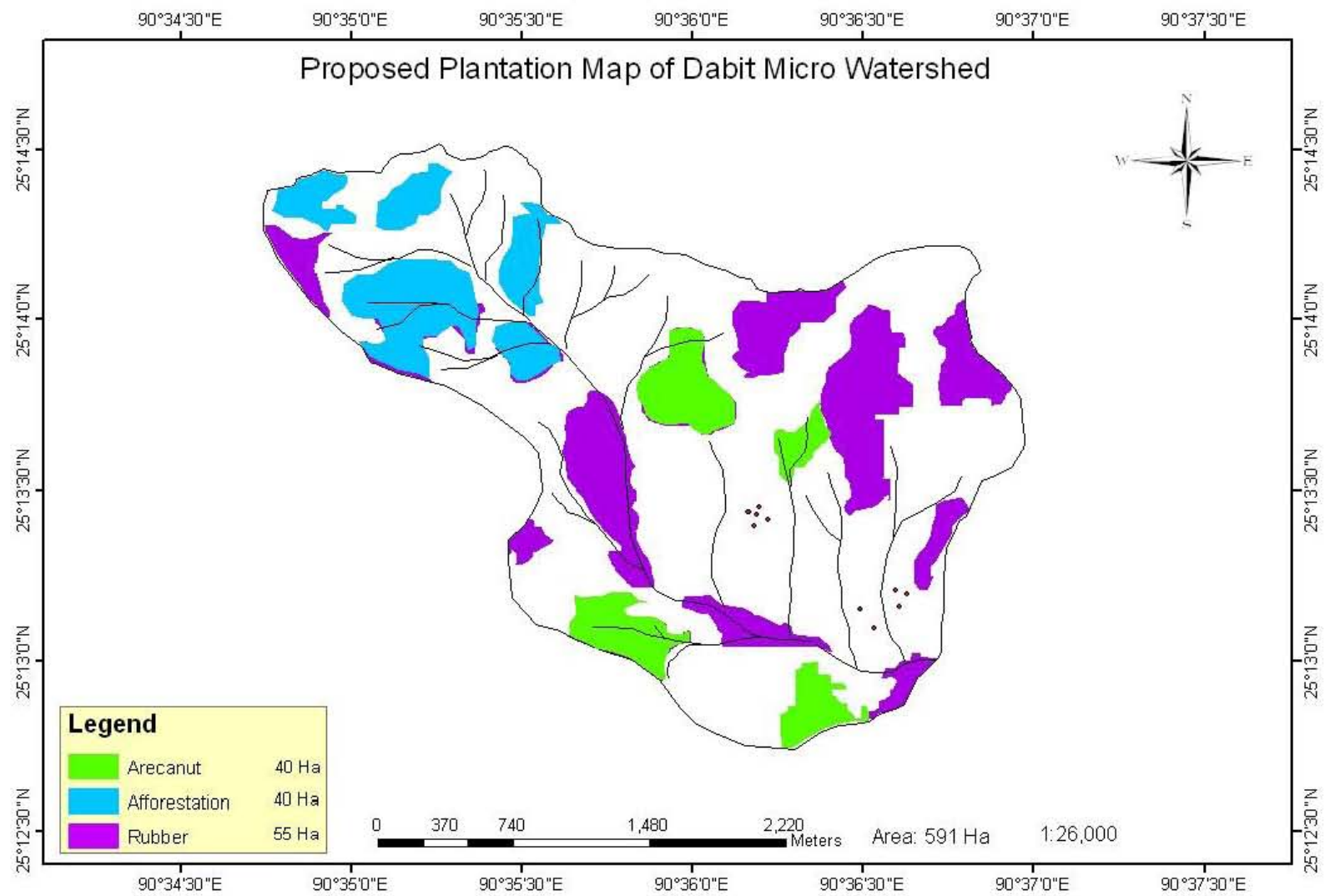


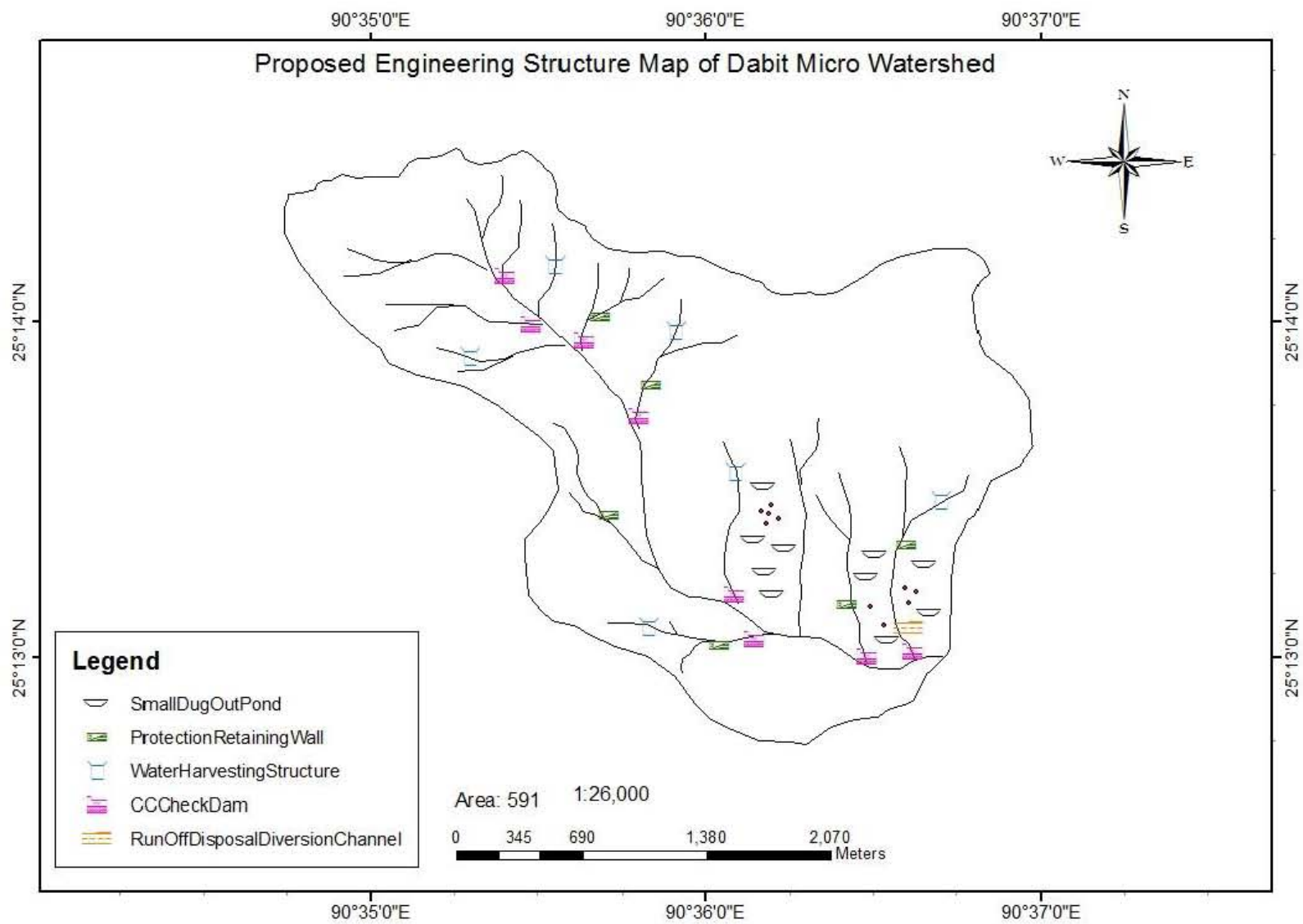












ANNEXURE II

SOCIO-ECONOMIC SURVEY DETAILS

SOCIO ECONOMIC SURVEY

NAME OF THE VILLAGE: - DABIT AMPANGDAM SONGGITAL

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. Bringson R. Marak	7	5	12	Farmer	2	2	0		10	29,000.00
2	Shri. Jogodish S. Sangma	3	4	7	Farmer	1.6	3	0	5	12	38,000.00
3	Shri. Jisikel S. Marak	4	2	6	Farmer	0.9	1	0	0	13	28,000.00
4	Shri. Daluk N. Sangma	2	2	4	Farmer	2	4	2	0	9	27,000.00
5	Shri. Kildom N. Sangma	2	2	4	Farmer	1.6	5	3	0	13	27,000.00
6	Shri. Debish S. Marak	5	2	7	Farmer	0.8	0	2	0	9	24,000.00
7	Shri. Willison M. Sangma	4	5	9	Farmer	0.8	3	3	0	10	23,000.00
8	Smt. Petti S. Marak	2	2	4	Farmer	0.9	3	2	0	23	29,000.00
9	Shri. Balnik R. Marak	2	2	4	Farmer	0.9	4	0	6	13	27,000.00
10	Shri. Parsingh N. Sangma	2	3	5	Farmer	1.3	0	0	0	8	31,000.00
11	Shri. Banjing C. Sangma	5	3	8	Farmer	2.8	0	0	0	0	29,000.00

12	Shri. Giga Ch. Sangma	7	5	12	Farmer	2.1	0	2	0	0	34,000.00
13	Shri. Gimel S. Marak	5	2	7	Farmer	2	4	4	0	0	35,000.00
14	Shri. Silash M. Sangma	5	4	9	Farmer	2	2	5	0	12	28,000.00
15	Shri. Dash M. Sangma	3	2	5	Service	3	0	5	3	0	1,34,000.00
16	Shri. Chibison Ch. Marak	4	3	7	Farmer	1	0	0	0	8	32,000.00
17	Shri. Dem Ch. Momin	4	2	6	Farmer	1	0	0	0	0	38,000.00
18	Shri. Krejas Sangma	2	1	3	Farmer	2.8	0	2	8	8	28,000.00
19	Shri. Jenden R. Marak	2	2	4	Farmer	2.1	3	0	9	0	21,000.00
20	Shri. Milli M. Sangma	5	3	8	Farmer	2.9	4	0	0	12	30,000.00
21	Shri. Jinggen M. Sangma	4	2	6	Farmer	2	4	3	0	0	23,000.00

22	Shri. Pebil Ch. Sangma	4	1	5	Farmer	2	0	4	7	0	25,000.00
23	Shri. Subil Ch. Momin	2	5	7	Farmer	2	5	0	0	23	23,000.00
24	Shri. Walsang R. Marak	3	3	6	Farmer	2	7	2	8	9	23,000.00
25	Shri. Nadil A. Sangma	4	3	7	Farmer	1	2	0	0	7	25,000.00
26	Shri. Sonting S. Marak	4	4	8	Farmer	1	3	0	0	0	32,000.00
27	Shri. Sengmil S. Marak	2	2	4	Farmer	2.9	0	0	2	0	31,000.00
28	Shri. Kingbirth S. Marak	3	3	6	Farmer	2.1	2	0	2	0	35,000.00
29	Shri. Withchen S. Marak	4	2	6	Farmer	2.1	3	2	0	0	32,000.00
30	Shri. Jonash Ch. Momin	3	1	4	Farmer	2.3	4	1	3	0	38,000.00
31	Shri. Wanson R. Marak	4	4	8	Farmer	1.8	0	0	3	0	28,000.00
32	Shri. Kenilson N. Sangma	3	1	4	Farmer	2.4	2	0	1	7	21,000.00
33	Shri. Bebel S. Marak	2	5	7	Farmer	2.1	2	5	2	5	30,000.00
34	Shri. Baltius S. Marak	3	3	6	Farmer	3	3	2	3	5	23,000.00
35	Shri. Gisai S. Marak	2	1	3	Farmer	2	2	0	0	7	30,000.00

36	Shri. Wildash S. Marak	2	1	3	Farmer	1	3	0	0	8	23,000.00
37	Shri. Likson Ch. Sangma	4	2	6	Farmer	2	0	4	3	8	28,000.00
	Total	128	99	227		68.2	80	53	65	239	11,62,000.00

SOCIO ECONOMIC SURVEY

NAME OF THE VILLAGE: - DABIT AMPANGDAM SONGMONG

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. Jebith Sangma	6	1	7	Farmer	0.5	3	5	0	10	30,000.00
2	Shri. Dipal Sangma	5	3	8	Farmer	1	4	0	0	5	25,000.00
3	Shri. Dodon Sangma	2	2	4	Farmer	0.65	0	2	2	11	21,000.00
4	Shri. Gipi Sangma	4	2	6	Farmer	0.75	2	3	0	14	25,000.00
5	Shri. Terji Sangma	1	5	6	Farmer	1	2	0	1	2	31,000.00
6	Smt. Merila Sangma	5	6	11	Farmer	1	2	5	1	7	28,000.00
7	Shri. Tamin Sangma	3	1	4	Farmer	0.75	4	0	0	7	26,000.00
8	Shri. Jhoral Sangma	7	10	17	Farmer	1	0	6	2	12	32,000.00
9	Shri. Pewilson Momin	3	2	5	Farmer	0.5	5	0	3	3	32,000.00
10	Shri. Tangseng Sangma	4	3	7	Farmer	1	3	0	0	8	34,000.00
11	Shri. Heaswilin Sangma	2	3	5	Farmer	1	5	0	0	11	39,000.00

12	Shri. Dingra Marak	3	3	6	Farmer	0.5	2	0	3	8	31,000.00
13	Shri. Sahadev Sangma	3	4	7	Farmer	1	0	3	2	6	35,000.00
14	Shri. Tupan Sangma	2	5	7	Farmer	0.65	6	4	3	12	33,000.00
15	Shri. Joakim Marak	5	4	9	Farmer	0.75	3	3	1	6	28,000.00
16	Shri. Milik Marak	4	2	6	Farmer	1	9	4	0	4	24,000.00
17	Shri. Loithonath Sangma	4	2	6	Farmer	1	5	0	0	21	28,000.00
18	Shri. Kalsin Sangma	1	2	3	Farmer	0.5	6	0	0	5	28,000.00
19	Shri. Nelison Sangma	4	6	10	Farmer	1	5	0	1	6	31,000.00
20	Shri. Iwilson Sangma	5	3	8	Farmer	1	11	1	4	0	27,000.00
21	Shri. Gripson Sangma	1	1	2	Farmer	0.5	2	2	0	8	24,000.00

22	Shri. Gilson Marak	1	2	3	Farmer	1	3	0	2	3	27,000.00
23	Shri. Sangdom Sangma	4	9	13	Farmer	0.65	0	2	0	4	28,000.00
24	Shri. Medon Sangma	6	3	9	Farmer	0.75	2	1	3	5	31,000.00
25	Shri. Gethneck Chm Marak	1	2	3	Farmer	1	0	1	4	6	23,000.00
26	Shri. Iwill Marak	2	2	4	Farmer	1	0	1	2	7	25,000.00
27	Shri. Basan Sangma	4	2	6	Farmer	1	3	3	4	5	27,000.00
28	Shri. Silsin Ch. Sangma	2	1	3	Farmer	1	4	2	0	4	31,000.00
29	Shri. Kenal G. Momin	1	3	4	Farmer	0.5	1	5	8	5	30,000.00
30	Shri. Captain Ch. Sangma	2	2	4	Farmer	0.5	0	2	0	8	29,000.00
31	Shri. Dusiram Ch. Sangma	2	1	3	Farmer	0.8	6	4	2	9	27,000.00
32	Shri. Dilbash Marak	3	4	7	Farmer	1	7	2	0	5	21,000.00
33	Shri. Saduram Sangma	2	5	7	Farmer	2	0	2	4	7	27,000.00
34	Shri. Dansing Sangma	2	2	4	Farmer	0.67	2	2	2	9	27,000.00
35	Shri. Bindro Ch. Sangma	5	4	9	Farmer	0.8	2	2	3	6	21,000.00

36	Shri. Melen R. Marak	4	4	8	Farmer	0.9	0	0	3	4	30,000.00
37	Shri. Taluk N. Sangma	1	3	4	Farmer	2	3	0	3	6	23,000.00
38	Smt. Delina Sangma	2	3	5	Farmer	1	2	0	0	5	25,000.00
39	Smt. Peri R. Marak	7	4	11	Farmer	3	3	0	2	10	23,000.00
40	Shri. Waling Sangma	3	2	5	Farmer	2	0	2	0	5	23,000.00
41	Shri. Tear Marak	2	3	5	Farmer	2.3	0	0	2	11	25,000.00
42	Shri. Emington Sangma	4	2	6	Farmer	1.5	2	3	2	11	32,000.00
43	Smt. Nobin Sangma	1	1	2	Farmer	0.9	0	4	1	2	31,000.00
44	Smt. Pesi Sangma	2	1	3	Farmer	0.8	0	5	1	7	35,000.00
45	Shri Thiuthson Marak	5	4	9	Service	1	0	1	3	7	1,30,000.00
46	Shri. Shri. Stone Sangma	4	2	6	Farmer	1	0	6	2	6	23,000.00
47	Shri. Hedith Marak	8	4	12	Farmer	2.7	5	1	3	6	32,000.00
48	Smt. Minjing Marak	0	2	2	Farmer	2	3	4	2	8	32,000.00
49	Shri. Withnalsan Sangma	7	8	15	Farmer	2	0	1	0	6	30,000.00
50	Shri. Taigres Sangma	4	6	10	Farmer	3	2	1	1	8	26,000.00

51	Shri. Gretson Sangma	2	5	7	Farmer	0.3	0	0	2	6	33,000.00
52	Shri. Chaseng Sangma	3	3	6	Farmer	4	6	0	3	9	29,000.00
53	Shri. Digret Marak	5	2	7	Farmer	2	0	0	1	6	28,000.00
54	Shri. Gohindro Marak	1	3	4	Farmer	3	3	0	0	4	26,000.00
55	Shri. Wanen Marak	5	5	10	Farmer	2	0	6	0	3	35,000.00
56	Shri. Sengson Momin	3	4	7	Service	3	0	2	0	5	1,35,000.00
57	Shri. Hejila Sangma	2	2	4	Farmer	2	7	0	1	6	29,000.00
58	Smt. Gresilda Sangma	5	1	6	Farmer	1	0	1	4		38,000.00
59	Shri. Ripan R. Marak	3	2	5	Farmer	0.6	2	0	0	8	28,000.00
60	Shri. Labison Sangma	2	3	5	Farmer	0.8	3	2	3	3	27,000.00
61	Shri. Mekal Marak	3	2	5	Farmer	0.9	0	2	0	4	27,000.00
62	Shri. Handrish Sangma	3	3	6	Farmer	0.5	2	0	3	5	24,000.00
63	Smt. Mohila Marak	0	2	2	Farmer	2	6	3	4	6	23,000.00
64	Shri. Grenjal Marak	1	1	2	Farmer	1	2	2	2	7	29,000.00
65	Shri. Pulmute Sangma	1	2	3	Farmer	1	0	0	4	5	27,000.00

66	Shri. Ikloi Sangma	4	2	6	Farmer	0.9	0	4	0	4	31,000.00
67	Shri. Goering Sangma	2	1	3	Farmer	2	1	5	8	5	29,000.00
68	Shri. Arbiash Sangma	4	1	5	Farmer	1	0	2	0	8	34,000.00
69	Shri. Buban Sangma	2	3	5	Farmer	2.3	6	0	0	9	35,000.00
70	Shri. Danikson Sangma	3	5	8	Farmer	3	0	2	2	5	28,000.00
71	Smt. Dina Marak	2	4	6	Farmer	2	3	0	3	0	34,000.00
72	Shri. Rasansing Sangma	2	2	4	Farmer	1	4	2	0	13	32,000.00
73	Shri. Julen Momin	2	2	4	Farmer	1	0	0	4	12	38,000.00
74	Shri. Jemrish Sangma	5	2	7	Farmer	2	0	3	2	14	28,000.00
75	Shri. Renatu Sangma	6	2	8	Farmer	0.9	1	2	1	9	27,000.00
76	Shri. Rakal Dash	1	2	3	Service	0.8	0	1	0	0	1,15,000.00
77	Shri. Sanjith Marak	2	3	5	Farmer	0.5	0	0	2	6	26,000.00
78	Shri. Samu Sangma	4	5	9	Farmer	0.7	2	3	0	8	23,000.00
79	Shri. Sarman Sangma	2	3	5	Farmer	1	3	0	0	9	28,000.00
80	Smt. Gretila Sangma	1	2	3	Farmer	2	0	4	3	0	32,000.00

81	Shri. Bijoy Marak	1	0	1	Farmer	1	4	5	0	21	32,000.00
82	Shri. Thinith Sangma	1	0	1	Farmer	0.7	0	3	0	0	32,000.00
83	Shri. Biren Marak	3	2	5	Farmer	0.9	5	0	3	9	25,000.00
84	Shri. Jiparson Sangma	4	2	6	Farmer	1.2	0	2	0	10	35,000.00
85	Shri. Busan Marak	2	1	3	Farmer	1.6	2	1	0	11	34,000.00
86	Shri. Singha N. Sangma	1	2	3	Farmer	0.5	0	0	0	0	32,000.00
87	Shri. Kankan N. Sangma	1	1	2	Farmer	0.8	0	0	0	5	38,000.00
88	Shri. Sengrak S. Marak	2	3	5	Service	0.5	0	0	0	12	1,30,000.00
89	Shri. Bandi N. Sangma	4	3	7	Service	1.2	0	2	0	10	35,000.00
	Total	265	254	519		107.72	191	152	137	586	28,47,000.00

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

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

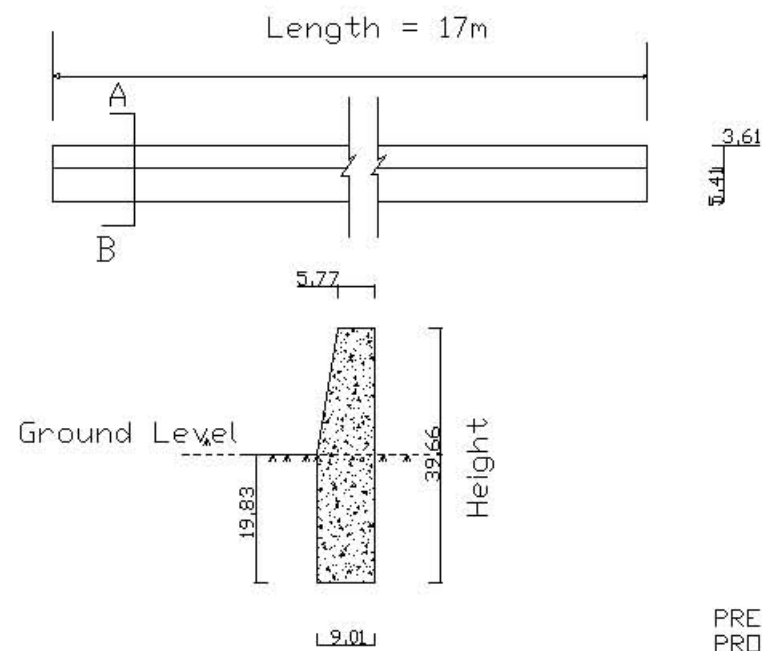
2/137 Plain Cement Concrete 1:3:6 nominal mixed in foundation with crushed stone aggregates
40 mm nominal size mechanically mixed etc including curing for 14 days

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

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

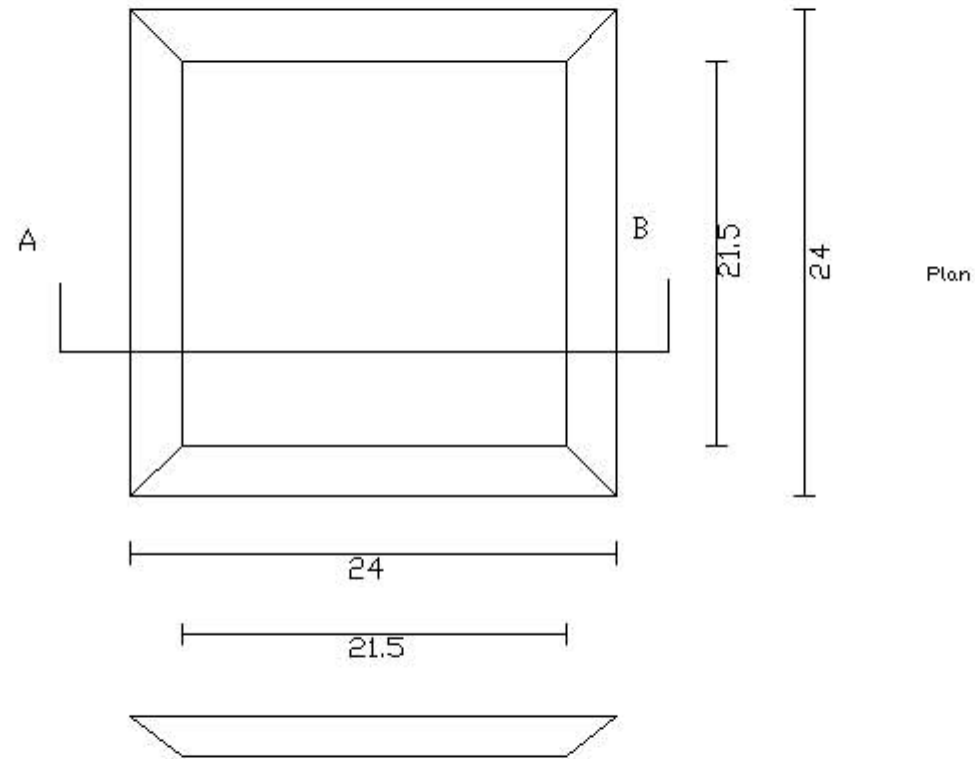
1/3. Site Clearance Area = Rs 0.0625 Ha

@ 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 m ³
@	Rs	72 /m ³	= Rs	74772
			Total	74,997.00
			Say	Rs 75,000
(Rupees seventy five thousand) Only				

PLAN FOR DUG OUT POND



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

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

$$\begin{array}{rcl}
 1 \text{ x } 1 \text{ x } 2 \text{ x } 0.6 \text{ x } 0.9 & = & 1.08 \text{ m}^3 \\
 1 \text{ x } 2 \text{ x } 2 \text{ x } 0.6 \text{ x } 0.75 & = & 1.8 \text{ m}^3 \\
 1 \text{ x } 1 \text{ x } 2 \text{ x } \frac{0.26+0.55}{2} \text{ x } 1.35 & = & 1.09 \text{ m}^3
 \end{array}$$

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:

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

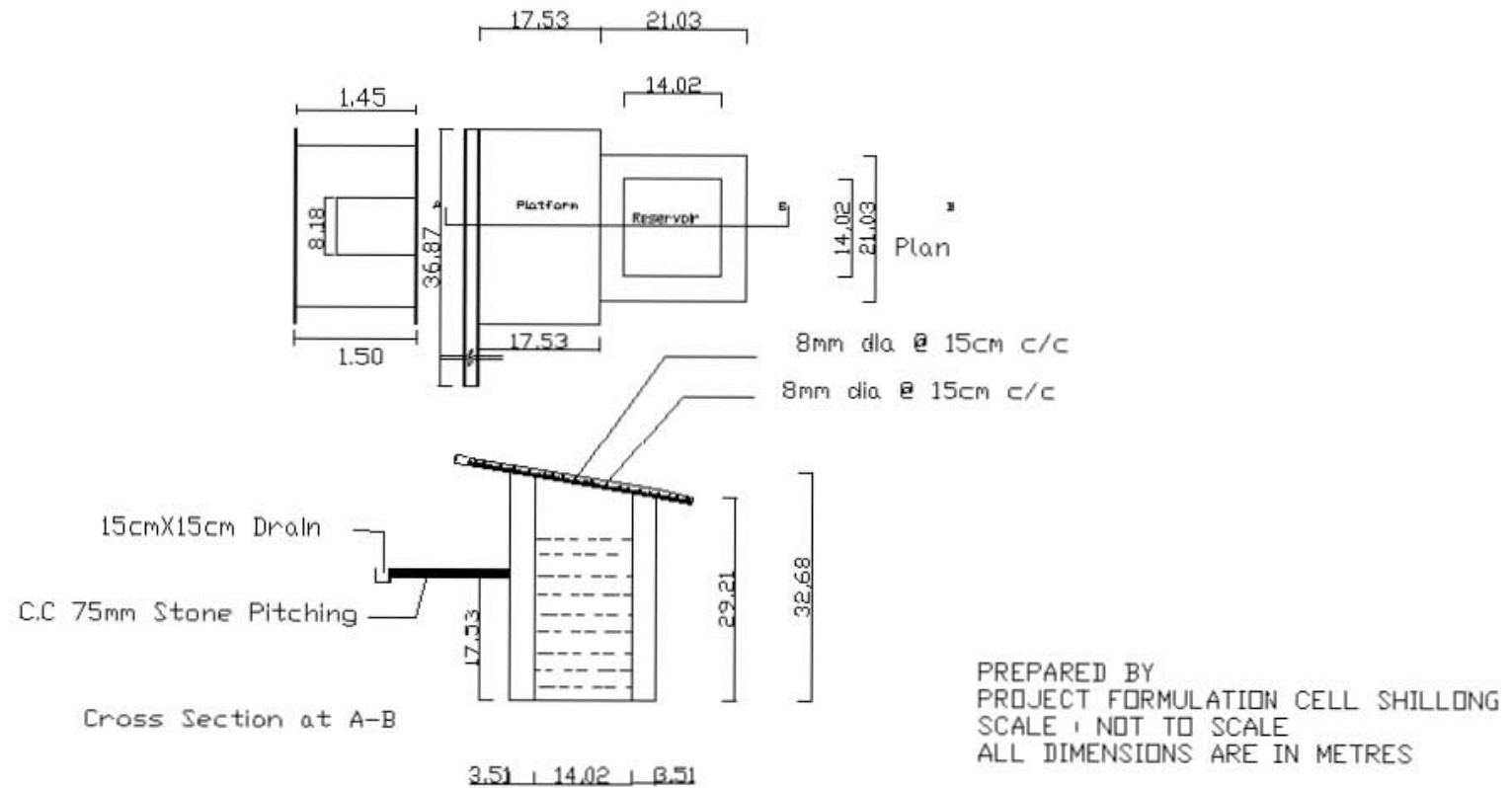
$$\text{@ } 0.22 \text{ kg/Rm} = \text{Rs } 14.9$$

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

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

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)			

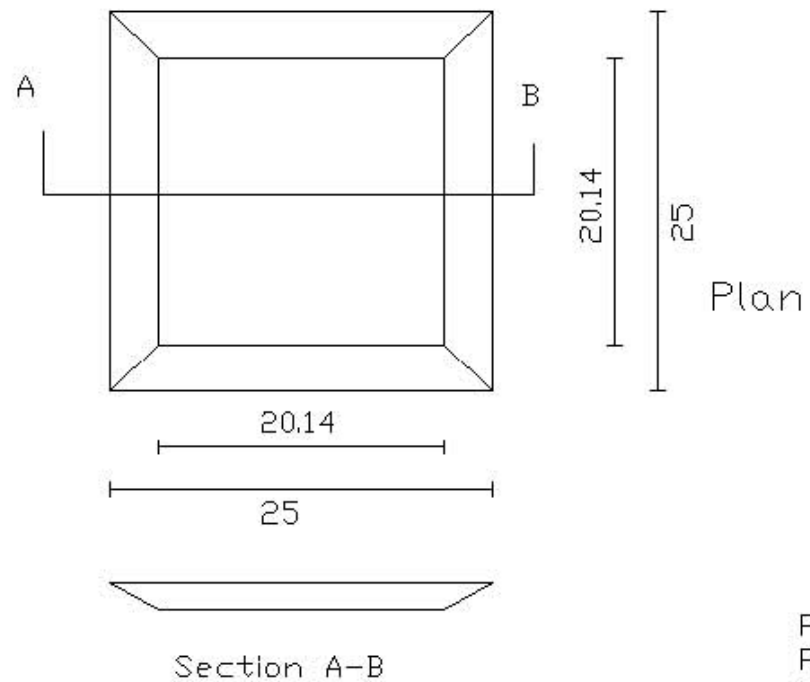
PLAN AND SECTION OF SPRING CHAMBER WITH WATER RESERVOIR



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	$\frac{(25 \times 25) \times (20.14 \times 20.14)}{4}$		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 Wall	7	x	0.15	x	0.4	=	0.42	m ³	
Apron	7	x	3	x	0.4	=	8.4	m ³	
Wing wall	2	x	3.5	x	0.9	x	1.1	=	<u>6.93</u> m ³
									22.05 m ³
	@	72	/m ³			=	Rs		1587.6

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

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

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

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

	2	x	4	x	0.6	x	0.3	=	1.44	m ³
Apron	7	x	3	x	0.15			=	3.15	m ³
Curtain Wall	7	x	0.15	x	0.55			=	0.5775	m ³
C.C Channel	1	x	8.48	x	0.8	x	0.1	=	0.6784	m ³
	2	x	8.48	x	0.8	x	0.1	=	<u>1.3568</u>	<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	m ³
	2	x	3.5	x	<u>0.4 + 0.9</u>	x	1.7	=	<u>7.74</u>	<u>m³</u>
					2				14.04	m ³
@	2263	m ³						=	Rs	31772.52

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

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

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

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

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

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

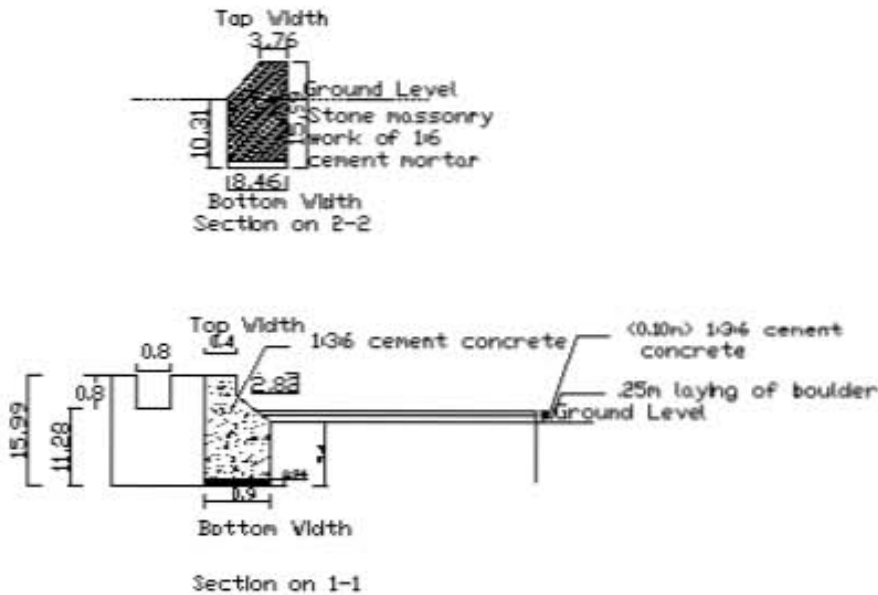
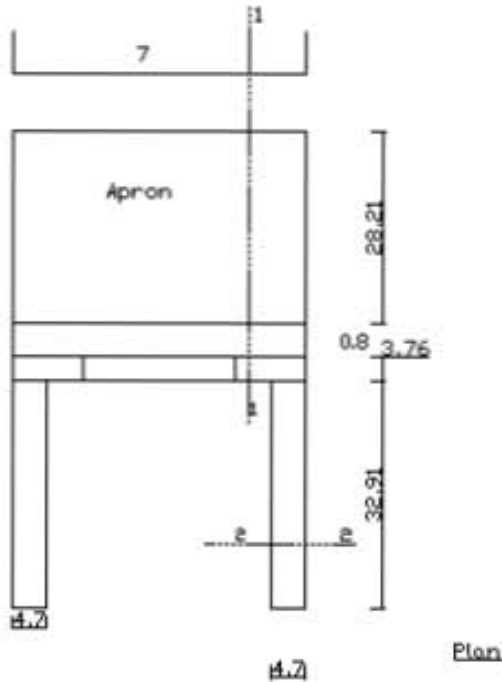
$$@ 34 \text{ m}^3 = \text{Rs } 185$$

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

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

(Rupees one lakh twenty thousand) only

PLAN AND SECTION OF CEMENT CONCRETE CHECK DAM



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 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.

$$1 \times 48.02 \times \frac{1.50 \times 1.00}{2} \times 1.2 = 72.03 \text{ m}^3$$

$$\text{Rs. } 34 / \text{m}^3 \qquad \text{Rs. } 2,449.02$$

- 2/103. Providing and laying of dry rubble flooring completed as per drawing etc .

$$1 \times 48.02 \times 1 = 48.02 \text{ m}^3$$

$$\text{Rs. } 852 / \text{m}^3 \qquad \text{Rs. } 40,913.04$$

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

Cement

procured

$$\begin{array}{rclclclcl}
 1 & \times & 48.02 & \times & 1 & \times & 0.1 & = & 4.802 \text{ m}^3 \\
 2 & \times & 48.02 & \times & 1.22 & \times & 0.1 & = & \frac{11.72 \text{ m}^3}{16.52 \text{ m}^3}
 \end{array}$$

Rs. 3630 /m³

Rs. 59,963.53

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

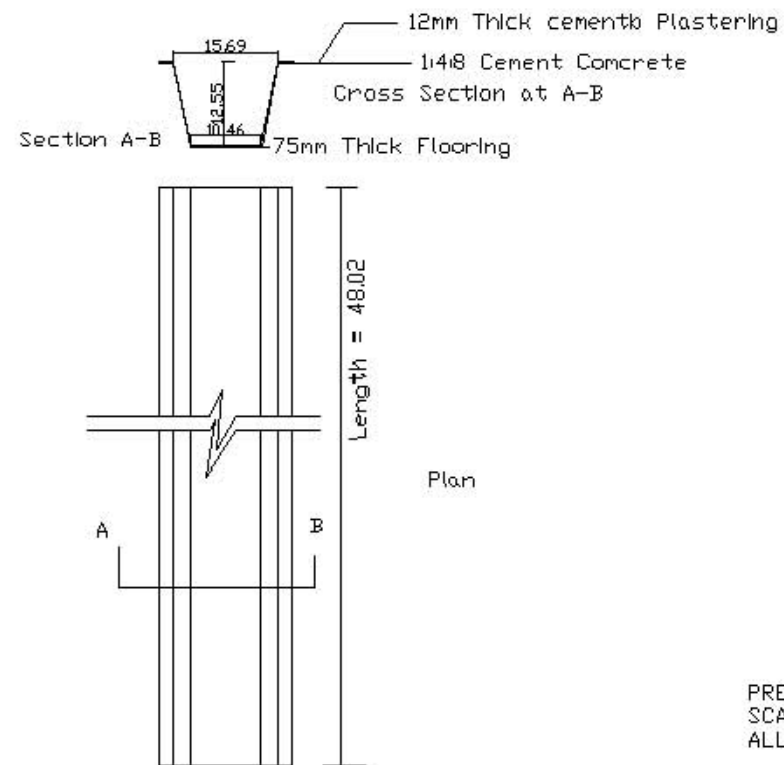
$$2 \times 48.02 \times 1.22 = 117.2$$

Rs. 74 /m³

Total	=	Rs. 8,670.49
		Rs. 1,11,996.09
Say		Rs. 1,12,500.00

(Rupees one lakh twelve thousand five hundred 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-III	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 Dabit Micro Watershed under Integrated Watershed Management Programme (IWMP-III) 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 Dabit Ampangdam 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 John Oswin S. Momin (Assistant Soil & Water Conservation Officer) Baghmara Soil & Water Conservation (CC) Division. The Watershed Committee of Dabit 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-III	1. Shri. Gohindro S. Marak		Chairman	M	ST	Matriculate
		2. Shri. John Oswin S.Momin		Secretary	M	ST	BSc. Agri
		3. Shri. Kai Raksal Sangma		Member	M	ST	B.C.A
		4. Shri. Sonting Marak		Member	M	ST	Class VII
		5. Shri. Walsrang Marak		Member	M	ST	Matriculate
		6. Shri. Silash Sangma		Member	M	ST	ClassVII
		7. Shri. Alpiush Areng		Member	M	ST	Class X
		8. Smt. Putuli Sangma		Member	M	ST	Class VIII
		9. Smt. Sarojini Marak		Member	M	ST	Class IV
		10. Smt. Balsimi Sangma		Member	F	ST	Class XII


AGREEMENT FOR CONVERGENCE OF SCHEME

The Village Employment Council (VEC) and the Communities of Dabit Am-pangdam Village, Baghmara Block, South Garo Hills, Meghalaya have no objection to the Convergence of NREGS with Integrated Watershed Management Project (IWMP) at Dabit Am-pangdam village under Dabit Micro-Watershed, SGH-IWMP-III being implemented by Baghmara Soil & Water Conservation (C.C) Division, South Garo Hills.

We have also agreed and committed to allocate the Funds for wages as well as material components under NREGS in our Annual Work Plan for various Soil & Water Conservation Works which shall be taken up during the Project Period (2010-11 to 2015-15). The wage and material component under NREGS shall be utilized for following works:

1. Spring Chamber.
2. Link Road.
3. Rubber Plantation.
4. Protection Wall.


President,
Dabit Am-pangdam V. E. C.
President, Block
Village Employment Council
Dabit Am-pangdam
Baghmara Block, SGH.


Secretary,
Dabit Am-pangdam V. E. C.
Secretary, Block
Village Employment Council
Dabit Am-pangdam
Baghmara Block, SGH.


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

Babitampangdam aro Babitonggital Integrated water Management Programme - ni ginin gurnal meetingo Chanchie tih ka'ginin anglo se'ekani.

Bisip: Babitampangdam L.P. School etc. Tarik 6-11-2010.

Resolution No. 1, Babitampangdam Micro shed committee Sak 8 (Chet) nanggipani ginin sulsul se'ekani.

- | | |
|-----------------------|-------------------------|
| 1. SHRI SONTING HAKAK | 5. SHRI GOHINDRO MARAK |
| 2. " WALSANG MARAK | 6. SMTI PUTHULI SANGMA |
| 3. " SILASH SANGMA | 7. SMTI SAIROJINI MARAK |
| 4. " ALPILSH ARENGH | 8. " BALSMI CH. SANGMA |

ga sak 8 (Chet) se'ekani committee - rangoniko Chais-man-na shri Gohindro Marak ko ginin namnibe tih hae ra' chakaha.

Resolution NO. 2, Sak 11 (Chisa) Association-na nanggipani ginin sulsul se'ekani :-

- | | |
|--------------------------|----------------------|
| 1. SHRI LITTINGTON MARAK | 7. SMTI LAINI SANGMA |
| 2. " NADIR SANGMA | 8. " BAIRINA MARAK |
| 3. " KINGBIRTH MARAK | 9. " MOSINA MARAK |
| 4. " NAITCHING SANGMA | 10. " SELPONY SANGMA |
| 5. " ANDRESH SANGMA | 11. " KENBILA MARAK |
| 6. " DILBHA MARAK | |

ga sak 11 (Chisa) - longin Association - oniko Presidentna shi Littington Marak Secretary shi Naitching Sangma ko ginin namnibe donaha.

Resolution NO. 3, Mikangchi sangni nane maundersangna janggi langinina nambatgipa - de'ekani rubber bagawan nambatge in sanggipa scheme - ko ra'na tih hae ra' chakaha.

Resolution NO. 4, Bisipni ginin Chanchion Village Forest Reserve - ko Bittungre aro Asolega area chipak - ko Asim Chirungoni chigrik chirungona acre 15 (Chibonga) ba nangagita ra'na namnibe ginin tih hae.

(General Sangma)
Minute Secretary,

Meeting's Chairman

Dabitampangdam aro dabitangital
 nangdine loil sept. - o water shed scheme
 ho ra'na general meetingo tile ha'e chan-
 dianio member's present.

Biap: Dabitampangdam L.P. Tarik 6-11-2010,
 School role

1. Shri Johoral Chi Sangma Chia
 (Proposed Secy.)
2. Kildon Sangma Chia
3. Herahing Marak H.M.
4. Shri Gahinda ~~Kida~~ Sh
5. Shri, Walarang Marak Marak
6. Shri, Gathison Sangma G.A.N.
7. Sri. Dilgath Marak Dilgath
8. Liga
9. Shri Lemeth Sangma D.F.
L.A.S.
10. Mili Sangma
11. Shri Nighting Sangma N.S.
12. Shri Balingdon Marak B.M.
13. Sarei Walling Sangma W.S.
14. Pustah Sangma P
15. Pimila Sangma P
16. Dilha Sangma D
17. Cikalat Marak C
18. Shri Santhing Marak S
19. Shri Uchevdon Marak U

P. T. D.

20		
21	Litungan Maata	
22	Handong Sangma	
23	Milukon Morak	
24	Handong Sangma	
25	Handong Sangma	
26	Handong Sangma	
27	Madon Sangma	Madon
28	Daluk Sangma	PS
29	Bubau Sangma	Ben
30	Jhupa Sangma	HS
31	Jhi Willison Sangma	Jhi
32	Samuel Sangma	Sangma
33	Jhi Pileasa	Jhi
34	Niksep S. Morak	Niksep
35	Debieth S. Morak	Debieth
36	Jhi Getheth Morak	Jhi
37	Subiboo Sangma	Subiboo
38	Jhi De'Basu Morak	Jhi
39	Bene Morak	Bene
40	Tingun Sangma	Tingun
41	Mellion Sangma	Mellion
42	Walling Sangma	Walling
43	Kingdoot Maata	Kingdoot
44	Nadit Sangma	Nadit
45	Creithen Morak	Creithen
46	Mifdosh Morak	Mifdosh
47	Handong Morak	Handong
48	Sulano Sangma	Sulano
49	Chipstoni Morak	Chipstoni
50	Jelman S. Morak	Jelman
51	Jhembinca Sangma	Jhembinca
52	Jhimin S. Morak	Jhimin
53	Getheth Morak	Getheth

54	Grisel	Maret	Jan	13.15	10.14	1.0
55	Baden	Sangma				
56	Salsin	Sangma	SALS			
57	Taigut	Sangma	TICKS			
58	Grecato	Sangma	Gryse			
59	Bauring	Sangma	ALLS			
60	Rinika	Sangma	ALLS			