

**GOVERNMENT OF MEGHALAYA DEPARTMENT
OF
SOIL & WATER CONSERVATION WEST GARO HILLS
DETAILED PROJECT REPORT
DIBLONGGA INTEGRATED WATERSHED
MANAGEMENT PROGRAMME
IWMP – IV 2009 – 2010**



GAMBEGRE C&RD BLOCK

WEST GARO HILLS

MEGHALAYA

SUMMARY

Name of the State	:	Meghalaya
Name of the District	:	West Garo Hills
Name of the C&RD Block	:	Selsella
Name of the Village	:	i) Dikimpara ii) Jebalgre
Name of the Project	:	IWMP-IV
Total Geographical Area	:	928.20 Ha
Total Treatment Area	:	500 Ha
Total Project Cost	:	75 lakhs
Project Duration	:	5 Years
Project Implementing Agency	:	Soil & Water Conservation Territorial Division, Tura.

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CHAPTER I

INTRODUCTION AND BACKGROUND

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INTRODUCTION AND BACKGROUND

1.1 Project Background:

The Diblongga (IWMP) Project is located in Gambegre C&RD Block, West Garo Hills District of Meghalaya. Consisting of a single micro-watershed, the project area is drained by the Sanda river and its tributaries flowing in a south to west direction. The total area is 928.20 Ha. with 500 Ha to be treated under the Integrated Watershed Management Programme (IWMP).

The Project area is located at a distance of about 45 km from Tura the District Headquarter . There are two village which are covered under the project. These are-

- i) Dikimpara
- ii) Jebalgre

1.2 Micro-watershed Information:

The micro-watershed code is as codified by the North East Space Application Centre (NESAC). The total area of the micro-watershed is 928.20 Ha., with 500 hectares to be treated under the Integrated Watershed Management Programme (IWMP).

1.3 Need and Scope for Watershed Development:

The micro-watershed Diblongga falls under the High Priority category as per the prioritization of watersheds by the North East Space Application Centre (NESAC). . The farmers are all marginal and Jhum cultivation is practiced by most of the inhabitants of these villages on the slopes. Even though the area receives ample rainfall during the monsoons, there is acute shortage of water during the dry seasons and the villagers have to travel long distances for fetching water even for domestic use.

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

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

1. NREGS

CHAPTER II

BASIC INFORMATION OF THE PROJECT AREA

CHAPTER II

BASIC INFORMATION OF THE PROJECT AREA

2.1 Location:

The Project area is located at West Garo Hills. It is situated at a distance of about 45 km from Tura the District Headquarter . The geographical location is between 90°03'00" to 90°06'00"E Longitude and 25°22'00"N to 25°25'00"N Latitude. There are two village within the Watershed which are as follows –

- i) Dikimpara
- ii) Jebalgre

2.2 Physiography:

The physiography of the micro-watershed is highly undulating. The altitude ranges from a minimum of 70 m to a high of 210 m above mean sea level. About 45% (125.16 Ha) falls under 70-98 m elevation. The watershed shows flat gentle slopes with 47% of the geographical area having <1% slope.

Table 2.1: Physiographic details

Elevation (metres)	Slope Range (%)	Order of watershed Sub/Micro-watershed	Major streams	Topography
70 – 210 m	1 – 50%	3 Order of Sanda River Micro W/S	i)Gamba Stream ii)Chigitcha k Stream iii)Boldak Stream iv)Agatchi Stream v)Ronggusi Stream vi)Rongsin Stream vii)Pulsangga Stream viii)Songmi Stream ix)Chijongkol Stream	Flat and gentle slopes

2.3 Drainage:

The major stream draining the micro-watershed is the Diblongga which is a 2nd to 3rd order stream flowing in a south-west direction. The slopes of the micro-watershed are dissected by numerous small tributaries flowing to the Diblongga.

2.4 Soil:

Soil in general is moderately deep with clay to loamy clay in surface structure. They are moderately acidic in nature. The soil depth is deep to moderately deep. Due to uniform slopes and presence of many water courses, no drainage problem exists. The watershed area does not have major erosion problem with 763.40 Ha area facing moderate erosion problem.

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	West Garo Hills	WGH IWMP- IV	Water erosion:				
				a	Sheet	500	NA	NA
				b	Rill			
				c	Gully			
				Sub total		500		
				Wind erosion		Nil	Nil	Nil

2.5 Climate:

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

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

1	2	3	4	5	6	7		8	9	
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	Central Hypert hermic Plateau 50-150 m	500	West Garo Hills	WGH IWMP-IV	Clayey Loamy Clayey	500	3600mm	Paddy	165.4
									Arecanut	60.00
									Cashew	48.40
								Total		273.8

2.5 Agriculture:

The Project village has about 165.40 Ha of land under Permanent cultivation system. Crops are cultivated under rain fed condition and thus offer only single cropping. Thus the village hardly produce market surplus of agricultural crops though market is available. The major crop includes paddy with total production of about 1984.60 quintals per annum. Maize is cultivated in about 30 Ha of agriculture land with total production of 720 Quintals annually.

Table 2.4: Crop yield and production

Crops	Area (ha)	Average Yield (Qtl) per ha.	Total Production (Qtl.)
Paddy	165.4	1984.60	-
Arecanut	60.00	-	-
Cashew	48.40	-	-

2.6 Natural Vegetation:

The project area has about 422.40 Ha of degraded forest which comprises 45% of the total geographical area. Various biotic factors i.e. deforestation for Commercial use and horticultural activities have destroyed the rich biodiversity and left scrub vegetation in most of the area. The dominant species in the area includes Albizzia spp, Schima wallichii, Emblica officianalis, Bombax cieba and bamboo spp namely, Dendrocalamus and Melocana baccifera.

2.7 Socio-Economic Profile:

The Socio-economic condition of the people is poor. The per capita holding of agricultural land is 2.76 Ha. The entire population depends upon agriculture and horticulture for sustenance. There are about 99 small farmers with average agricultural land holding 2-4 Ha.

Demographic Status: There are total number of 99 households in the village The total population of watershed area is 672.

Infrastructure facilities :

- 2.1.1 *Roads:* The Project area is about 0.50 km from the main road and is connected by an all weather road.
- 2.1.2 *School:* there are only three numbers of Primary Schools within the Project Area run either by the Mission or by the Government.
- 2.1.3 *Electricity :* .There is no electricity connectivity in both the villages.
- 2.1.4 *Health:* The Project does not have any veterinary dispensary or Primary Health Centre in the village.
- 2.1.5 *Water Supply:* *Dikimpara village has PHE water supply but there is no proper drinking water connectivity at Jebalgre village and thus need to depends on springs available in the area to meet the daily requirement. About 30 households do not have access to drinking water system and depend on natural streams.*
- 2.1.6 *Market :* There is no any market under this project area

Table 2.5: Infrastructure Status.

1	2	3		4			
Name of District	Name of Project	Parameters:		Status			
WGH	WGH-IWMP-IV	(i)	Whether connected to the main road by an all weather road	YES			
		(ii)	No. of households without electricity	Jebalgre(40)/Dikimpara(59)			
		(iii)	No. of households without access to drinking water	30			
		(iv)	No. of educational institutions: Primary (P)/ Secondary (S)/ Higher Secondary (HS)/ Vocational institution (VI)	(P)	(S)	(HS)	(VI)
				3	NIL	NIL	NIL
		(v)	Distance of project village from nearest Primary Health Centre	Purakhasia 16 Km			
		(vi)	Distance of project village from nearest Veterinary Dispensary	16 Km			
		(vii)	Distance of project village from nearest Post Office	4 Km			
		(viii)	Distance of project village from nearest Banks	20 Km			
		(ix)	Distance of project village from nearest Markets/ mandis	Chengapara 4 km			
		(x)	Distance of project village from nearest 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	1	NIL
		(xiii)	No. of villages with access to Aganwadi Centres	1			
		(xiv)	No. of worship place	2			
		(xv)	No. of Community Hall	NIL			
		(xvi)	No. of water tanks/Ringwell/Spring chamber	2			

2.8 Livestock:

There are only 7 kinds of livestock farming being farmed in the area viz. Piggery, Poultry, Cattle and Goatery .

Table 2.6: Existing livestock population

Type of Animal	Population
Piggery	81140
Poultry	707927
Goatery	120311
Cattle	220562
Buffaloes	8223
Horse & Ponies	18
Sheep	6228
Total	1,144,409

2.9 Land ownership:

The proposed project is under the “A’king land tenure system.”prevailing in Garo Hills District of Meghalaya in which a land is held a particular class {Mahari) under the custody of the Head of the Clan or a Village Chief called “Nokma” recognized as such by the Garo Hills District Councils.

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
West Garo Hills	IWMP-IV	(i) Large(>5 Ha)	-	-	-	-	-
		(ii) Small(1-5 Ha)	-	-	-	-	-
		(iii) Marginal(<1 Ha)	99	-	-	273.6	273.6
		(iv) Landless	-	-	-	-	-
		Sub – Total	99	-	-	273.6	273.6

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)
West Garo Hills	WGH IWMP-IV	(i) Wasteland/ degraded land	-	-	-	232.2		-	-	270.00
		(ii) Pastures	-	-	-	-		-	-	
		(iii) Orchards	108.2	-	-	-	40	-	-	
		(iv) Village woodlot	-	-	-	-		-	-	
		(v) Forest	-	-	-	422.4		-	-	100
		(vi) Village Ponds/ Tanks	-	-	-	-		-	-	
		(vii) Community Buildings	-	-	-	-		-	-	
		(viii) Weekly Markets	-	-	-			-	-	
		(ix) Permanent Markets	-	-	-			-	-	
		(x) Temples/ Places of worship	-	-	-	2		-	-	
		(xi) Jhum Cultivation		-	-	-		-	-	
		(xii) Permanent Cultivation	165.4	-	-	-	90	-	-	
		(xiii) Habitation including streams	-	-	-	-	-	-	-	
	Total		273.60	-	-	654.60	130	-	-	370

2.9 Land use and land cover : As per the map .

2.10 Problems of the Area :

The primary problems of the area is jhumming. Majority of the population depends on Jhum Cultivation for their livelihood. Vast tracks of abandoned Jhum areas which has further degraded the capability of the land. Moreover, unscientific method of cultivation has not only reduced the Jhum cycle and crop yield but had adversely affected the ecological balance within the area. Road communication is another infrastructural problems that the area is facing where large volume crops like pineapple, jackfruits etc do not find their way into the market which has resulted in poor socio-economic status of the people. However, to control or to overcome the said problems an innovative approach has been formulated and documented in the Action Plan or the Treatment Plan the Detailed Project Report. The method of identification of the problems is through the Participatory Rural Appraisal Exercises conducted in all the villages within the Watershed.

CHAPTER III

PROJECT PLANNING & INSTITUTION BUILDING

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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	3
	Whether technical back-stopping for the project has been arranged? If yes, mention the name of the Institute.	YES i)NESAC,Nongsder ii)SNLA,GIS lab,Shillong
	Baseline survey	YES
	Hydro-geological survey	GIS survey/engineering Survey
	Contour mapping	Toposheet(1:50000)
	Participatory Net Planning (PNP)	PRA exercise

1	2	2
	Remote sensing data-especially soil/ crop/ run-off cover	YES
	Ridge to Valley treatment	YES
	Online IT connectivity between	
	(1) Project and DRDA cell/ZP	YES
	(2) DRDA and SLNA	YES
	(3) SLNA and DoLR	YES
	Availability of GIS layers	
	1. Cadastral map	NO
	2. Village boundaries	NO
	3. Drainage	YES
	4. Soil (Soil nutrient status)	YES
	5. Land use	YES
	6. Ground water status	NO
	7. Watershed boundaries	YES
	8. Activity	YES
	Crop simulation models [#]	NO
	Integrated coupled analyzer/ near infrared visible spectroscopy/ medium spectroscopy for high speed soil nutrient analysis	NO
	Normalized difference vegetation index (NDVI) [#]	YES
	Weather Stations	NO
B.	Inputs	
	1. Bio-pesticides	NO
	2. Organic manures	YES
	3. Vermi-compost	NO
	4. Bio-fertilizer	YES
	5. Water saving devices	YES
	6. Mechanized tools/ implements	NO
	7. Bio-fencing	YES
	8. Nutrient budgeting	YES
	9. Automatic water level recorders & sediment samplers	NO
	Any other (please specify)	

3.2 Project Implementing Agency:

The PIA is the Soil & Water Conservation Territorial Division, Tura West Garo Hills District of Meghalaya.

The Project Manager will be the Divisional Soil and Water Conservation Officer and will be assisted by an Asst. Soil & Water Conservation Officer along with WDT members in which expertise is drawn from the relevant fields for achieving smooth and successful implementation of the project.

1	2	3	
Names of Districts	Names of projects	Details of PIA	
West Garo Hills	W.G.H. IWMP-IV	(i) Type of organization#	Government
		(ii) Name of organization	Soil & Water Conservation (T) Division,
		(iii) Designation & Address	Divisional Officer, Tura Soil & Water Cons.(T) Division, W.G.H, Tura Meghalaya.
		(iv) Telephone	03651-222354
		(v) Fax	03651-222354
		(vi) E-mail	turadivsoil@gmail.com

3.3 Institution Building

i) Watershed Committee (WC)

The Watershed Committee of the Upper Dabang Watershed IWMP-II was constituted with the active involvement of the villagers with strong support of the Traditional Institutions (Village Durbar/Council). The Upper Dabang Watershed Committee has been registered under the Society Registration Act 1983.

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#
W.G.H	W.G.H-IWMP-IV	Diblongga	Under progress	President	M		ST									Class XII	A to I
				Secretary	M		ST									P.U (Arts)	A to I
				Member	5 M											Class V-IX	A to I
				Member	5 F												A to I
				Member													

- 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).

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
W.G.H	W.G.H. IWMP-IV					(i) Landless									
						(ii) SF									
						(iii) MF									
						(iv) LF									
Total					NIL				NIL			NIL			NIL

CHAPTER IV
PROJECT ACTIVITIES

CHAPTER IV PROJECT ACTIVITIES

4.1 Preparatory Phase:

i) Entry Point Activities (EPA)

(Financial – Rs. in lakh)

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

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 agree-ments	Preparation of DPR	Evaluation of DPR	Any other (please specify)	Cost incurred (Rs. In lakh)
W.G.H	W.G.H IWMP-IV	a) Rapport Building b) Community meeting c)Formation of	a) Project concept/roles and responsibility of W.C b) Concept/roles and responsibility of SHG and UG c) Concept/roles and responsibility of of WDT members d) Off-campus exposure trip to research Institutes/Established farms etc.	a)Pamplets b)Banners c)Posters	a)Participatory Rural Appraisals b)Socio Economic Survey	a)GPS survey b)Engineering Survey	a) NIRD b)SIRD c)ICAR d)NEHU	a) NOC with village headman for under-taking developmental works reserves. b) Agreement for convergence of NREGS scheme with IWMP with VEC.	a)Resource inventory works	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	Are a irrig ated (ha)	Stor age capa city	Augmentation/ repair of existing structures				Construction of new structures				Total target			
								No	Area to be treate d (ha)	Stora ge capaci ty	Estima ted cost (in lakhs)	No/R M	Area to be treate d (ha)	Storage capacit y (per unit)	Estimat ed cost (in lakhs)	No	Area to be treat ed (ha)	Storag e capaci ty (m ³)	Estima ted cost
1	Megh alaya	W.G. H	W.G.H IWMP- IV	Dug out Pond	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				C.C Check cum Irrigation Dam	-	-	-	-	-	-	-	1	86	774	1.00	1	86	774	1.00
				Conservatio n Pond	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Earthen Irrigation Channel	-	-	-	-	-	-	-	1480. rmt	24	-	0.74	1480. rmt	24	-	0.74
				Water harvesting farm pond	-	-	-	-	-	-	-	4	81	1215	4.00	4	81	1215	4.00
			Total										191	1989	5.74		191	1989	5.74

[illegible]

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

[illegible]

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	Estimated Cost	Amount of WDF to be collected (Rs.)
		Sl. No.	Type	No.#	Treatment (ha)			
W.G.H	W.G.H IWMP-IV	1.	C.C Check-cum irrigation dam	1 Nos	86 Ha	2	1.00	0.05
		2	Stone masonry Protection Wall	2Nos	39 Ha	2	1.00	0.05
		3	Earthen Irrigation Channel	1480 rmt	24 Ha	1	0.74	0.037
			Total		149 Ha	5	2.74	0.137

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	
1.	C.C Check-cum irrigation dam	1 Nos	86 Ha	2	1.00		240	160	0.05
2	Stone masonry Protection Wall	2Nos	39 Ha	2	1.00		240	160	0.05
3	Earthen Irrigation Channel	1480 rmt	24 Ha	1	0.74		444	296	0.037
	Total		149 Ha	5	2.74		924	616	0.71

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
West Garo Hills	W.G.H IWMP-IV	Piggery	7	2.80
		Poultry	5	1.75
	Total		12	4.55

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

[illegible]

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		Horticulture & Cash Crop Development		Veterinary services		Fishery development		Non-conventional energy		Any other (please specify)		Total cost incurred (Rs. In lakhs)
		(a)	(b) (Rs)	(a)	(b) (Rs)	(a)	(b) (Rs)	(a)	(b) (Rs)	(a)	(b)	(a)	(b)	(a)	(b) (Rs)	(a)	(b) (Rs)	(a)	(b)	(a)	(b)	
W G H	W.G.H IWMP-IV	i)Improvement of degraded forest(40 Ha)	1.44	i)check dam. ii)protection wall. iii)farm pond. iv)dug out pond. v)Channel. vi)Earth embankment	1.00 1.00 4.00 7.6 0.74 2.10			i)Wet Terrac e(40Ha)	6.00	-	-	i)Rubber plantation(100 Ha) ii)Are canut plantation (30 Ha)	15.00 3.42	i)piggery ii)po ultry	2.80 1.75	Supply of fingerlings (40unit)	0.40	-	-	i)Kitchen Garden (36 unit) ii)Tailoring(11 unit) iii)Weaving(6 unit) iv)Carpentry(10 unit)	5.4 0.88 0.72 0.5	
	Total		1.44		16.44				6.00				18.42		4.55		0.40				7.5	54.75

4.2.8 Details of engineering structures in watershed works:

[illegible]

4.2.9 Details of engineering structures in watershed works.

[illegible]

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

1	2	3	4			5			6	7				8			
Distr ict	Proj ect	Name of structure/ work	Type of treatment			Type of land			Executing agency	Target				Achievement			
			(i) Ridge area (R)	(ii) Drainag e line (D)	(iii) Land dev. (L)	(i) Priva te	(ii) Com munit y	(iii) Other s (pl. specif y)	(i) UG (ii)SHG (iii) Others (pl. specify)	Area (ha)	No. of plants	Estimate d cost (Rs. in lakh)	Expected month & year of comple- tion (mm/ yyyy)	Area (ha)	No. of plants	Expendi-ture incurred (Rs. in lakh)	Actual month & year of comple-tion (mm/ yyyy)
WG H	IW MP -IV	Improvement of degraded	R		C				WC	40 Ha	1000	1.44	31/3/2013				
		Rubber Plantation	R			P			Farmers	100 Ha	45,000	15.0	31/3/2013				
		Arecanut		D		P			Farmers	30 Ha	36,000	3.42	31/3/2013				

in case two or more activities are executed over same area, the figures in area treated should be accounted only once and should reflect only the actual watershed area treated.

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

9															
Outcomes															
Name of activities	Reduction in runoff (cu.m)	Production (quintal)		Income (Rs.)		Mandays generated					No. of beneficiaries				
						SC	ST	Others	Women	Total	SC	ST	Others	Women	Total
		Pre-project	Post project	Pre-project	Post project										
Improvement of degraded	NA	0					346		230	576		0		0	0
Rubber Plantation	NA	0	300	0	3000000		3600		2400	6000		0		0	0
Arecanut	NA	1623	2073	1298400	1658400		821		547	1368		0		0	0
Total		1623	2373	1298400	4658400		4767		3177	7944		0		0	0

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	Target		Achievement	
			(i) Private	(ii) Community	(iii) Others (landless)	(i) UG (ii)SHG (iii) Others (pl. specify)	Estimated cost (Rs. in lakh)	Expected month & year of completion (mm/yyyy)	Expendi-ture incurred (Rs. in lakh)	Actual month & year of completion (mm/yyyy)
West Garo Hills	W.G.H IWMP-IV	Kitchen gardening	√		Individual	Private	5.40	31/3/2012		
		Piggery			SHG	SHG/UG	2.80	31/3/2012		
		Poultry			SHG	SHG/UG	1.75	31/3/2012		
		Tailoring			SHG	SHG/UG	0.88	31/3/2012		
		Carpentry	√				0.5	31/3/2012		
		Fingerlings	√			Private	0.40	31/3/2012		
		Weaving				Private	0.72	31/3/2012		
		Dug out pond	√		Individual	Private	4.80	31/3/2012		
		Total					17.25			

(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				
Name of activities	Pre-project	Post project	SC	ST	Others	Women	Total	SC	ST	Others	Women	Total
Kitchen gardening	5000-6000	20,000-25,000		1296		864	2142		36	NIL		36
Piggery	1,000-2,000	20,000-30,000		672		448	1120			NIL	20	20
Poultry	2,000-3,000	15,000-20,000		420		280	700			NIL	20	20
Tailoring	NIL	20,000-30,000		211		141	352			NIL	10	10
Carpentry	NIL	10,000-15,000		NIL		NIL	0		10	NIL		10
Fingerlings	NIL	50,000-80,000		NIL		NIL	0		5			5
Weaving	NIL	20,000-30,000		173		115	288				5	5
	Total			2772		1848	4620		51		55	106

14.3 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	
West Garo Hills	WGH IWMP-IV	Dikimpara	Repairing maintenance of CPR's			1.75		0.0875							
		Jebalgre													

CHAPTER V
PROJECT PHASING & BUDGETING

PROJECT PHASING & BUDGETING

Name of District :- West Garo Hills

No. of Villages: 2 nos

Name of C&RD Block:-Gambegre

Project Area : 500 Ha

[illegible]

C	Institution & Capacity Building : - 5%	1%		2%		1%		1%				5%	
i	Awareness Campaign & Capacity building of farmer	1	0.20	1	0.20	1	0.20	1	0.35			4	0.80
ii	Exposure visits - Off Campus			1	0.30			1	0.20			2	0.65
iii	Capacity building of SHG's/UG's.	1	0.20	3	0.60	1	0.20	1	0.20			6	1.20
iv	Capacity building of WC Members.	1	0.35	1	0.20	1	0.35					3	0.90
v	Capacity building of WDT/WV			1	0.20							1	0.20
	Total of C:		0.75		1.50		0.75		0.75				3.75
D	Detailed Project Report: 1%		1%										
i	Cost of Resources Inventories works		0.25										0.25
ii	Cost of PRA Exercises		0.10										0.10
iii	Cost of Land use Survey works		0.25										0.25
iv	Cost of formulating		0.15										0.15
	Total of D:		0.75										0.75
E	Monitoring & Evaluatio: 2%												
i	Cost of Monitoring			0.2%	0.15	0.5%	0.375	0.3%	0.225			1%	0.75
ii	Cost of Evaluation			0.3%	0.225	0.5%	0.375	0.2%	0.15			1%	0.75
	Total of E:				0.375		5.25		0.375				1.50
	TOTAL OF I (A - E)		4.50		3.375		5.25		3.375				16.50
II	PROJECT COST WATERSHED WORKS PHASE: 50%												
A	Arable Land Treatment:												
i	Wet terrace@15000/-40 Ha			3.5	0.525	30	4.50	6.5	0.975			40	6.00
ii	Rubber plantation (100 ha) pre-work@6,000/ha					90	5.40	10	0.60			100	6.000
	1st yr. planting @Rs.9,000/ha						8.1		0.9				9.000
iii	Arecanut plantation(50 Ha) pre-works @Rs.4,200/ ha					20	0.84	10	0.42			30	1.260
	1st yr. planting@ 7,200/ha						1.44		0.72				2.16
	TOTAL OF - A				0.525		20.28		3.62				24.420
B	Non-Arable Land treatment:												
	Improvement of degraded forest @3600/40 ha					20	0.72	20	0.72			40	1.44
	Total of B:						0.72		0.72				1.44

1	2	3	4	5	6	7	8	9	10	11	12	13	14
C	Drainage Line Treatment:												
i	C.C.Check-Cum-Irrigation dam @1,00,000/ each -86 Ha			1	1.00							1	1.00
ii	Stone masonry protection wall @50,000/each - 39 ha			1	0.50	1	0.5					2	1.00
iii	Dug-out pond @40,000/-each -20ha			4	1.6	2	0.8	1	0.4			7	2.80
iv	Water harvesting farm pond @1,00,000/- each -81 ha			2	2.00	2	2.00					4	4.00
v	Earthen irrigation channel @Rs. 50 /- Rm. 24 ha					1100	0.55	380	0.19			1480	0.74
Vi	Earthen embankment@Rs.700/-per rmt-40					200	1.40	100	0.70			300	2.10
	TOTAL-C				5.10		5.2500		1.29				11.64
	TOTAL OF A+B+C			7.5%	5.625	35%	26.25	7.5%	5.625			5%	
D	Livelihood Activities for landless person: 10%												
i	Kitchen garden @15000/unit			5	0.75	12	1.8	19	2.85			36	5.40
ii	Tailoring @Rs.8000/-per unit					5	0.4	6	0.48			11	0.88
iii	Carpentry@Rs.5000/-per unit					1	0.05	9	0.45			10	0.50
iv	Weaving@Rs.12000/-per unit							6	0.72			6	0.72
	Total of D:			1%	0.75	3%	2.25	6%	4.50			10%	7.50
E	Production system and Micro Enterprises (SHG's) - 13%												
i	Piggery unit @Rs.40,000 /- per unit			1	0.4	2	0.80	4	1.6			7	2.80
ii	Poultry unit @Rs.35,000 /- per unit			1	0.35	1	0.35	3	1.05			5	1.75
iii	Dug-out pond @40,000/-each					6	2.4	6	2.4			12	4.80
iv	Supply of fingerlings @Rs.1000/-per unit					20	0.2	20	0.2			40	0.40
	Total of E:			1%	0.75	5%	3.75	7%	5.25			13%	9.75

1	2	3	4	5	6	7	8	9	10	11	12	13	14
F	Consolidation & Exit Phase:												
i	Repairing maintainance of CPR's										1.75		1.75
ii	Improving the sustainability of various intervention										1.00		1.00
iii	Documentation of successful experience and preparation of complation report										1.00		1.00
	Total of F:										3.75		3.75
	Total of II (A+B+C+D+E+F)				7.125		32.25		15.375		3.75		58.500
	Grand Total (I+II)	6%	4.50	14%	10.50	50%	37.50	25%	18.75	5%	3.75	100%	75.00

VILLAGEWISE ACTION PLAN OF DIBLONGGA MICRO WATERSHED UNDER IWMP – II
TERRITORIAL DIVISION : TURA .

Name of District : West Garo Hills
 Name of C.& R.D. Block : Gambegre

No. of village : 2 nos.
 Project Area : 250.00 Ha.

Sl. No.	Activities	Dikimpara		Jebalgre		Total	
		Phy.	Fin.	Phy.	Fin.	Phy.	Fin.
1	2	3	4	5	6	7	8
I	<u>Watershed works Phase :</u>						
A.	<u>Arable Land Treatment :</u>						
	i) Rubber Plantation @ Rs. 15000/- per Ha.	50	7.5	50	7.5	100	15.0
	ii) Arecanut Plantation @ Rs.11400/-per Ha	15	1.71	15	1.71	30	3.42
	ii) Terracing @ Rs.15000/- per Ha.	20	3.0	20	3.0	40	6.00
B.	<u>Non-arable Land Treatment :</u>						
	i) Improvrmnt of Degraded Forest @ Rs. 3600/-	20	0.72	20	0.72	40	1.44
C.	<u>Drainage Line Treatment :</u>						
	i) Check Dam cum Irrigation Dam @ 100,000/-	1	1.00	0	0	1	1.00
	ii) W/H Farm Pond @ Rs. 100,000/- per no.	2	2.00	2	2.00	4	4.00
	iii) Dug out Pond @ Rs. 40000/- per no.	4	1.60	3	1.20	7	2.80
	iv) Protection Wall @ Rs. 50000/- per no.	1	0.50	1	0.50	2	1.00
	v) Earthen Irrigation Channel @ 50/- per R/ m	800	0.40	680	0.34	1480	0.74
	vi) Earthen Embankment @ Rs.700/-per rmt						
III	<u>Livelihood Activities for Assetless Household :</u>						
	i) Kitchen Garden @ 15000/-	20	3.00	16	2.40	216	5.40
	ii) Tailoring @ Rs. 8000/-per unit	6	0.48	5	0.40	11	0.88
	iii) Weaving @ Rs. 12000/-per unit	3	0.36	3	0.36	6	0.72
	iv) <u>Carpentry @ Rs.5000/-per</u> unit	5	0.25	5	0.25	10	0.50
IV	<u>Production System and Micro Enterprises :</u>						
	i) Piggery @ Rs. 40000/-per unit	4	1.60	3	1.20	7	2.80
	ii) Poultry @ Rs 35000/-per unit	3	1.05	2	0.70	5	1.75
	iii) Supply of fingerlings @ 1000/- per plant	20	0.20	20	0.20	40	0.40
	ii) Dug out pond @ 40000/-	6	2.40	6	2.40	12	4.80

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)	Treated Area (ha) of the projects				Treated Area details (ha) (falling within the projects)				
					From	To												
										Cultivated rainfed area	Cultivated irrigated area	Uncultivated wasteland		Agri. Land	Forest land (open)	Community land	Others (pl. specify)	Total area (ha)
												a) Temporary fallow	b) Permanent				Horti.	
1	Meghalaya	West Garo Hills	W.G.H IWMP -IV	2009	2009	31/3 / 2014	500	7.5	Diblongga	215	0	48.3	236.7	140	100	260	Nil	500

Fund provision for the IWMP projects from all sources:

[illegible]

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	W.G.H	W.G.H IWMP-IV	-	-	-	-	Diblongga Micro Watershed	S.B.I Chandmary	3105117 0336	Saving	Chairman W.C Secretary W.C Project Leader/WD T

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				
WGH	IWMP-IV										
			NIL								

* from Column no. 2, total no. of States implementing the programme, from Column no. 3, total no. of Districts; from Column no. 4, total no. of projects under PPP; from Column no. 5, total no. of private companies/ agencies, from column no. 7, total amounts may be mentioned at the end of the table for the entire country.

CHAPTER VI

CAPACITY BUILDING

CHAPTER VI CAPACITY BUILDING

Capacity Building is a process to systematically upgrade the skill of individuals or groups for achieving a specific target. Capacity building in the project has been planned for all the stake holders involved i.e. State Level, District Level, Project Level and Village Level. The relevant details pertaining to Capacity Building has been shown below.

Table 6.1: List of approved Training Institutes for Capacity Building:

1	2	3	4	5	6	7	8	9				
S. 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	-	-	-	-	-
2		SIRD	Nongsder	Director	State Govt.	Capacity Building	NA	-	-	-	-	-
3		RRTC	Umrang Meghalaya	Director	Don-Bosco	Agri-Horti, Animal Husbandry, Entrepreneurship	NA	-	-	-	-	-
4		ICAR/KV IC	Umiam/Tura Meghalaya	Director	Central Govt.	Do	NA	-	-	-	-	-
5		MRDS	Shillong Meghalaya	Director	State Govt.	Animal Husbandry	NA	-	-	-	-	-
6		NEHU	Shillong/Tura Meghalaya	Director	Central Govt.	Agri-Horti, Fruit Processing	NA	-	-	-	-	-

- From Column no. 2, total no. of States implementing the programme, from Column no. 3, no. of training institutes, from column No. 9, total no. of category-wise trainings and trainees may be given at the end of the table for the entire country

- # Central govt. Dept./ State govt. Dept./ Autonomous Body/ Research Institutes/ Universities/ Others (pl. specify)

\$ Capacity Building/ Agriculture/ Horticulture/ Animal Husbandry/ Pisciculture/ Remote Sensing/ Water conservation/ Ground water/ Forestry/ livelihoods/ entrepreneurship development/ others (pl. specify)

@ The training institutes must fulfill the conditions mentioned in the operations guidelines.

- Technical experts in fields required by IWMP
- Past experiences
- Annual Turnover
- Receives funds either from the Central or State Government
- Publications
- Not blacklisted by any Govt. organizations
- Audited accounts
- Organizational structure

Table 6.2: Capacity Building activities for the year 2009 – 10 as on 31/03/2009 (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)
PIAs	10	NIL	10	NIL	3.75	NIL	2.25	NIL
WDTs	4	NIL	4	NIL				
UGs	40	NIL	40	NIL				
SHGs	80	NIL	50	NIL				
WCs	10	NIL	10	NIL				
GPs	NIL	NIL	NIL	NIL				
Community	99	NIL	99	NIL				
Others (Pl. specify)								
TOTAL	243	0	213	0	3.75	0	2.25	0

Table 6.3: Information, Education & Communication (IEC) activities for the year 2009-10 as on 31/03/09 (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 (T) Division	0.25	-	-
2.	Exposure Visits	S&WC (T) Division	0.25	-	-
3.	Capacity Building	S&WC (T) Division	0.15	-	-
		Total	0.65	-	-

CHAPTER VII
EXPECTED OUTCOME

CHAPTER VII EXPECTED OUTCOME

Table 7.1 Employment related outcomes:

SI 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	Women	Total	SC	ST	Others	Women	Total
1.	Dikimpara		20868	-	14088	34956	-	209	-	141	350	-	66	-	30	96
2.	Jebalgre			-			-		-			-		-		

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)	
14088	9.86	160	1.6	40	6.1	17.5616

* 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	
Meghalaya	W.G.H IWMP-IV	Dikimpara	Reserved forest	FW/MFP/ T	Unspecified		99		99	NIL
		Jebalgre	Spring Chamber	Wd	Unspecified		35		35	NIL
			Check dam	Wi	Unspecified		40		40	NIL
			Irrigation Channel	Wi	Unspecified		50		50	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 |
- 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
Meghalaya	W.G.H IWMP-IV	Open Well	3	2.80	2.70	.30	Increase
		Bore Well	NA	NA	NA	NA	NA
		Other (specific) Spring	NA	NA	NA	NA	NA

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

Table 7.5.2 Status of Drinking water:

1	2	3			4			5
District	Name of the 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	
Meghalaya	WGH IWMP-IV	10 months	12 months	2 months	Unsafe	Potable	Improved	Better drinking water supply

* From column no. 2, total number of States implementing the programme, from column no. 3, total no. of Districts; from column no. 4, category-wise no. of projects, from column no. 5, average no. of months may be given at the end of the table for the entire country.

Table 7.5.3 Water Use efficiency:

1	2	3	4			
District	Name of the project	Name of major crop	Water savings in cum.			
			through water saving devices ^{\$}	through water conserving agronomic practices [#]	Any other (pl specify)	Total
W.G.H	WGH IWMP-IV	Paddy	NA	NA	NA	
		Maize	NA	NA	NA	

* From column no. 2, total number of States implementing the programme, from column no. 3, total no. of Districts; from column no. 4, total no. of projects, from column no. 6, practice-wise totals may be mentioned at the end of the table for the entire country.

^{\$} Sprinkler, Drip, PVC pipe, etc.

[#] Vermi-compost, organic manuring, Mulching, Check basin, Alternate furrow, Ridges & furrow & other scientific practices.

Table 7.6: Vegetation/ crop related outcomes:

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

1	2	3	4						5						6					
Names of the Districts	Name of Projects	Name of crops	Pre-project						Mid-term						Post-project					
			Area (ha)		Average Yield (Qtl) per ha.		Total Production (Qtl)		Area (ha)		Average Yield per ha (Qtl)		Total Production (Qtl)		Area (ha)		Average Yield per ha (Qtl)		Total Production (Qtl)	
			Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.
W.G.H	WGH IWMP-IV	Paddy		165.4		12		1984.8	112	73.4	15	15	1680	1101	132	73.4	15	15	1980	1101
		Maize		30		24		720	0	30		24	0	720	0	33	0	24	0	792
		Vegetable		55		30		150	6	5	36	30	216	150	6	5	36	30	216	150
		Total		200.4		66		2854.8	118	108.4	51	69	1896	1971	138	111.4	51	69	2196	2043

* 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)	
					Irr i	Rf.	Irr i	Rf.	Irr i	Rf.	Irr i	R f.	Irr i	Rf.	Irr i	R f.	Irr i	R f .	Irr i	Rf.	Irr i	R f.
	Meghalaya	West Garo Hills	WGH IWM P-IV	Paddy	-	-	-	-	-	-	112	-	15	-	1680	-	132	-	15	-	1980	-
				Vegetables	-	-	-	-	-	-	6	-	36	-	216	-	6	-	36	-	216	-
				Total	-	-	-	-	-	-	118	-	51	-	1896	-	138	-	51	-	2196	

* 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.

Irr i. – Irrigated Rf – Rainfed

Table 7.6.3 Details of Zaid crop area and yield in the project areas of the Country: State-wise:

1	2	3	4	5	6						7						8					
Sl No .	Names of States	Names of the Districts	Name of Projects	Name of crops	Pre-project						Mid-term						Post-project					
					Area (ha)		Average Yield (Qtl) per ha.		Total Production (Qtl)		Area (ha)		Average Yield per ha (Qtl)		Total Production (Qtl)		Area (ha)		Average Yield per ha (Qtl)		Total Production (Qtl)	
					Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf .	Irri	Rf.
	Meghalaya	West Garo Hills	WGH IWMP-IV		nil	nil	nil	nil	nil	nil	nil	nil	Nil	nil	nil	nil	nil	nil	nil	nil	nil	nil
					nil	nil	nil	nil	nil	nil	nil	nil	Nil	nil	nil	nil	nil	nil	nil	nil	nil	nil
					nil	nil	nil	nil	nil	nil	nil	nil	Nil	nil	nil	nil	nil	nil	nil	nil	nil	nil
				Total	nil	nil	nil	nil	nil	nil	nil	nil	Nil	nil	nil	nil	nil	nil	nil	nil	nil	nil

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

Irri. – Irrigated Rf – Rainfed

Table 7.6.4 Increase/ Decrease in area under fodder:

1	2	3	4			5		
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
W.G.H	W.G.H IWMP-IV	5 yrs	NA	NA	NA	NIL	NIL	NIL

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

Table 7.6.5 Increase/ Decrease in Forest/vegetation cover:

1	2	3	4			5		
District	Name of project	Duration of Project	Existing area tree cover (ha)			Achievement (ha)		
			Source/Name of report	Year of reference	Area already under forest/vegetative cover	Forest/vegetative cover area proposed to be covered under IWMP	Forest/vegetative cover area actually covered under IWMP	Change in forest/vegetative cover area
W.G.H	W.G.H IWMP-IV	5 yrs	Land use survey conducted by the Department	2009	422.40	462.4	462.4	40

* 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
W.G.H	W.G.H IWMP-IV	5 yrs	Land use survey conducted by the Department	2009	108.2	238.2	238.2	130

* 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
W.G.H	W.G.H IWMP-IV	5 yrs	NIL	NIL	NIL	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 7.7 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	
West Garo Hills	W.G.H IWMP-IV	Cattle	300		24	300		24	-	-	-	Use for ploughing & local consumption self production earning.
		Piggery	40		2.8	45		3.60	60		4.80	
		Poultry	1221		3.05	1321		3.96	1500		4.50	
		Goatery	107		1.60	107		1.60	-	-	-	
	Total for all projects		1668		31.45	1773		33.16	1560	-	9.30	

* 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
		Tailoring	-	0.88	-	-	0.88	-	-	-	-	20	20	-	-	-	20	20
		Weaving	-	0.72	-	-	0.72	-	-	26	-	-	26	-	26	-	-	26
		Carpentry	-	0.5	-	-	0.5	-	-	10	-	-	10	-	10	-	-	10

(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	
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

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	Benefi-ciary	Others (pl. specify)	Total		SF	MF	LF	Total	SF	MF	LF	Total
West Garo Hills	WGH IWMP-IV															
					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 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	
NIL	NIL	NIL	NIL	NIL	NIL	NIL	-
NIL	NIL	NIL	NIL	NIL	NIL	NIL	-
NIL	NIL	NIL	NIL	NIL	NIL	NIL	-
NIL	NIL	NIL	NIL	NIL	NIL	NIL	-

Table 7.8 Marketing related outcomes:

Backward-Forward linkages *

1	2	3	4	5	6
District	Project	Type of Marketing Facility	Pre-project (no.)	During the project (no.)	Post-project (no.)
WGH	IWMP-IV	(A) Backward linkages		-	-
		(i) Seed certification	Nil	-	-
		(ii) Seed supply system	Nil	-	-
		(iii) Fertilizer supply system	Nil	-	-
		(iv) Pesticide supply system	Nil	-	-
		(v) Credit institutions	1	5	5
		(vi) Water supply	1	5	5
		(vii) Extension services	Nil	-	-
		(viii) Nurseries	Nil	-	-
		(ix) Tools/machinery suppliers	Nil	-	-
		(x) Price Support system	Nil	-	-
		(xi) Labour	Nil	-	-
		(xii) Any other (please specify)	Nil	-	-
		(A) Forward linkages			
		(i) Harvesting/threshing machinery	Nil	-	-
		(ii) Storage (including cold storage)	Nil	-	-
		(iii) Road network	1	1	1
		(iv) Transport facilities	Nil	-	-
		(v) Markets / Mandis	Nil	-	-
		(vi) Agro and other Industries	Nil	4	4
		(vii) Milk and other collection centres	Nil	-	-
		(viii) Labour	Nil	-	-
		(ix) Any other (please specify)	Nil	-	-

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

Table 7.9 Abstract of outcomes:

1	2	3	4	5	6	7
Sl. No.	State	Item	Unit	Pre-project Status	Post-project Status	Remarks
	Meghalaya	Status of water table		Lack of management	Improved	
		Ground water structures repaired/ rejuvenated	Nil	Nil	Nil	
		Quality of drinking water	5 nos	Unsafe	Better quality	
		Availability of drinking water		10 months in a year	12 months availability	
		Increase in irrigation potential	11 nos	100% rainfed		
		Change in cropping/ land use pattern		Single cropping	Double cropping	
		Area under agricultural crop				
		i Area under single crop	Ha	165.40	73.40	
		ii Area under double crop	Ha	Nil	132.00	
		iii Area under multiple crop				
		Net increase in crop production area		165.40	205.40	24% increase in cropping area
		Increase in area under vegetation	Ha	422.40	522.40	23% increase in vegetative cover
		Increase in area under horticulture	Ha	108.2	238.2	120% increase in horticulture and cash crop plantation
		Increase in area under fuel & fodder	Ha	422.40	522.40	23% increase in vegetative cover
		Increase in milk production		NA	NA	
		No. of SHGs	No.	1	8	
		Increase in no. of livelihoods	Activities	a) Agriculture b) Horticulture	a) Agriculture b) Horticulture c) Farm Pond d) Rubber Plantation e) Piggery Poultry	
		Increase in income	Rs.	200000-300000	500000-600000	
		Migration	Nos	Nil	Nil	
		No. of school going children	Nos.			
		SHG Federations formed	Nos	Nil	1	
		Credit linkage with banks	Nos	Nil	8	
		Resource use agreements	Nos			
		WDF collection & management		None	a) Total WDF to be collected=Rs.5% b) WC shall formulate guidelines for utilization of WDF	
		Summary of lessons learnt	Nil			

Table 7.10 Cost effectiveness of structures/ activities*

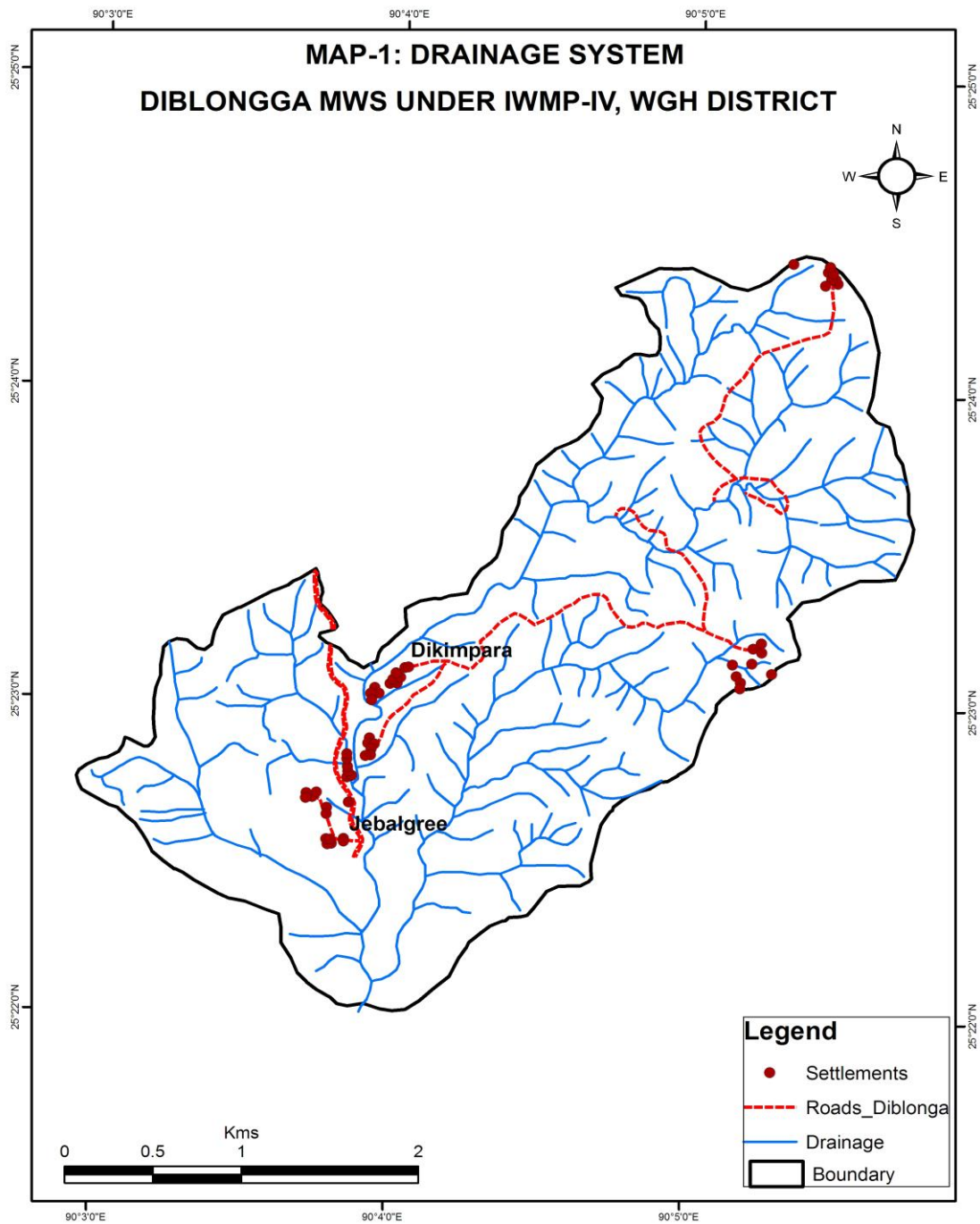
1	2	3	4	5	6	7	8	9
District	Name of project	Name of WC	Name of structure/ activity	Estimated cost (Rs.)	Expected quantifiable benefits (Rs.)	Expenditure incurred (Rs.)	Actual quantifiable benefit (Rs.)	Benefit: Cost ratio[#]
WGH	WGH IWMP_IV	Diblongga	As per action plan	5850000	-	-	-	-

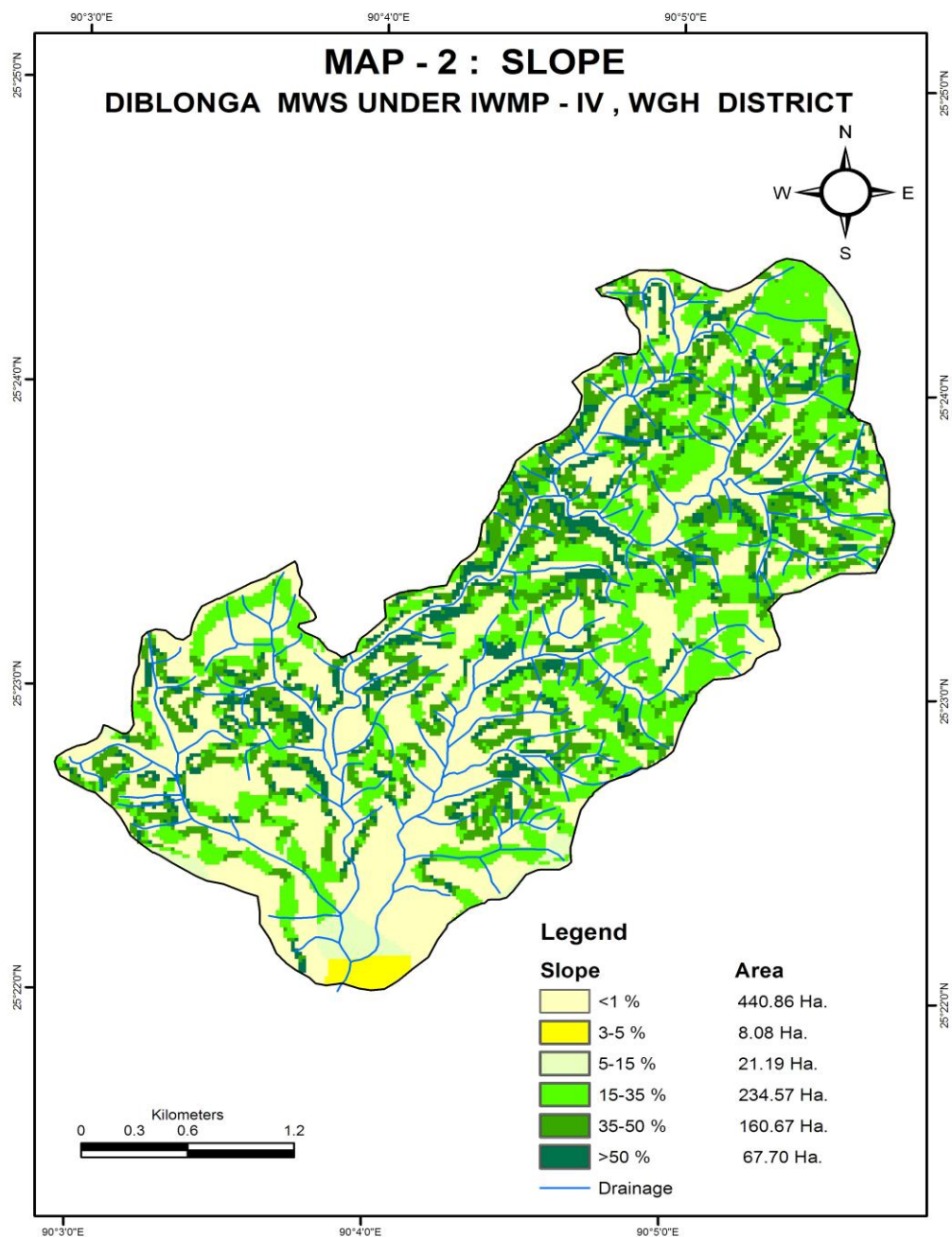
* from column no. 2, total no. of States implementing the programme, from column no. 3, total no. of Districts; from Column no. 4, no. of projects, from column no. 5, no. of WCs, from column no. 6, no. of structures/ activities, from column no. 7 to 10, category-wise# totals, may be mentioned at the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

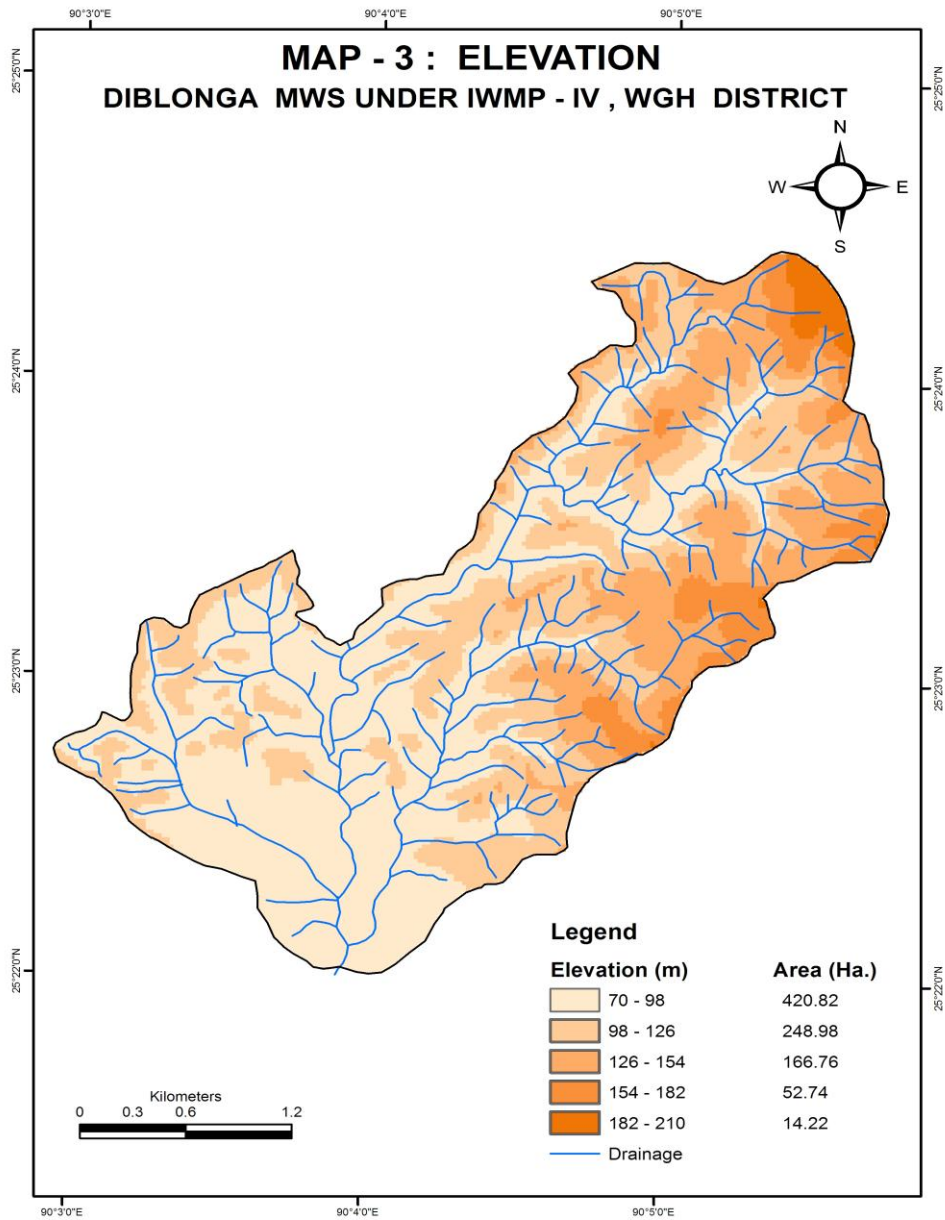
[#]B:C ratio more than 1 – cost effectiveness than 1– Not cost effective

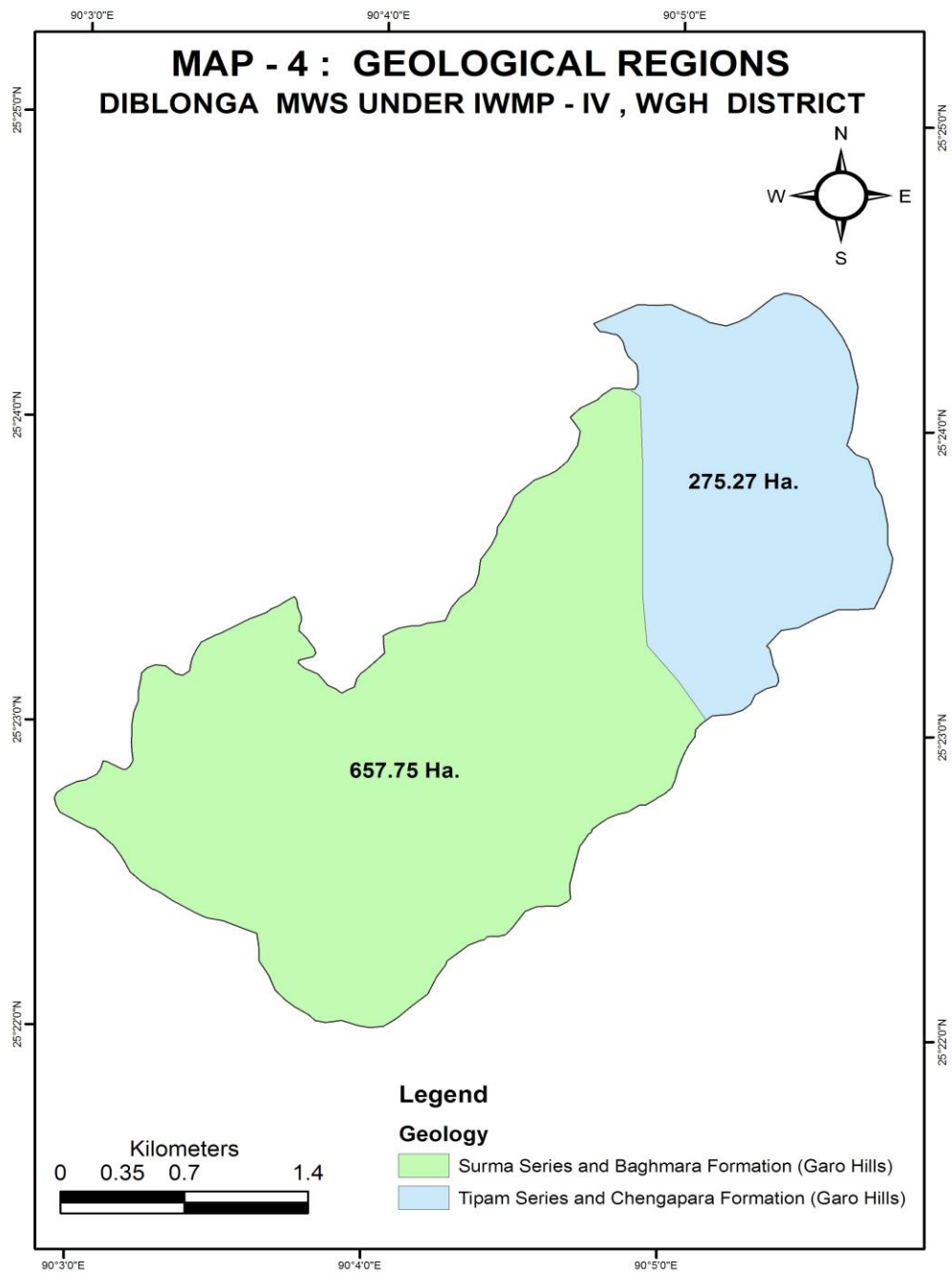
ANNEXTURE I

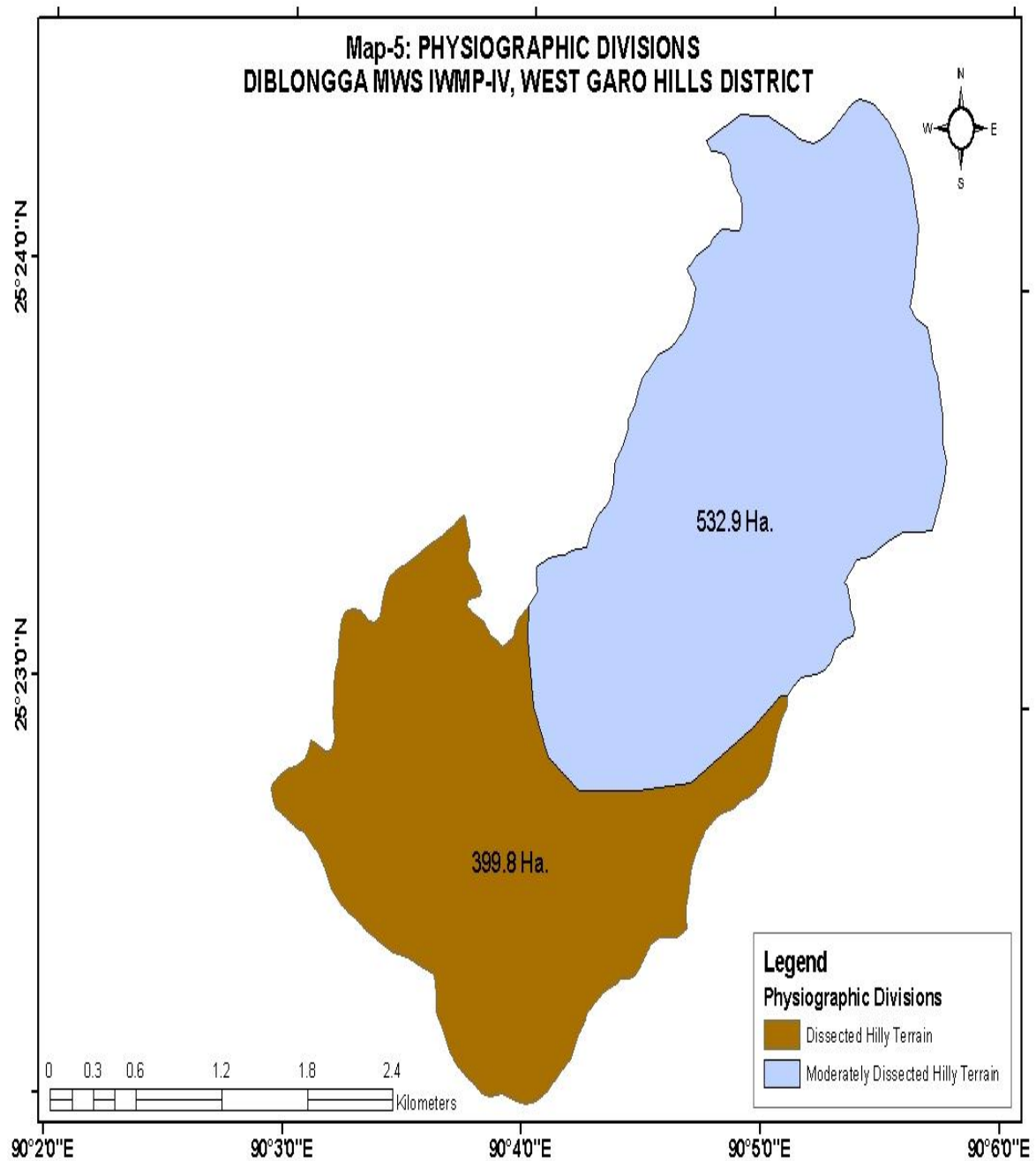
MAPS



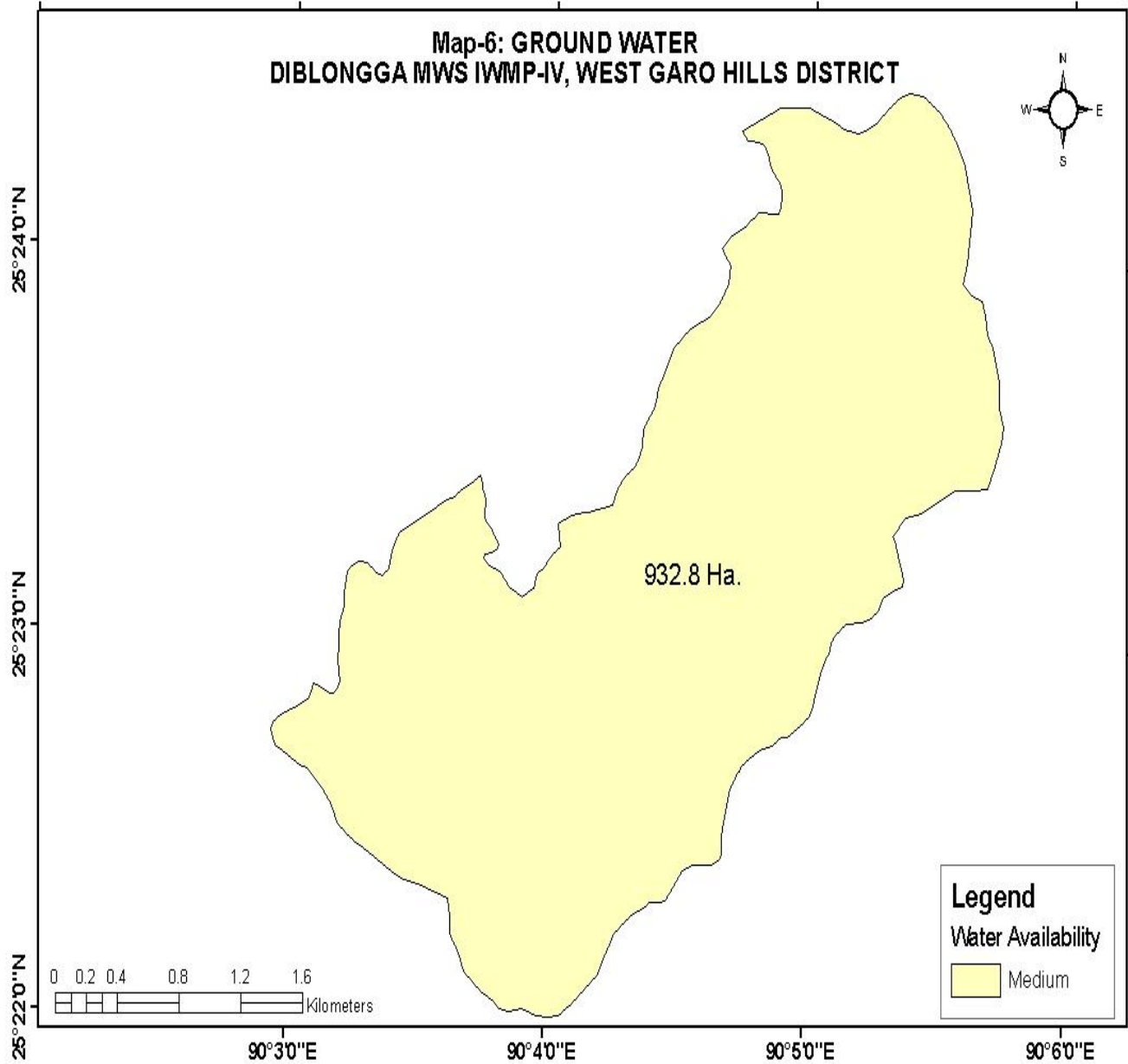


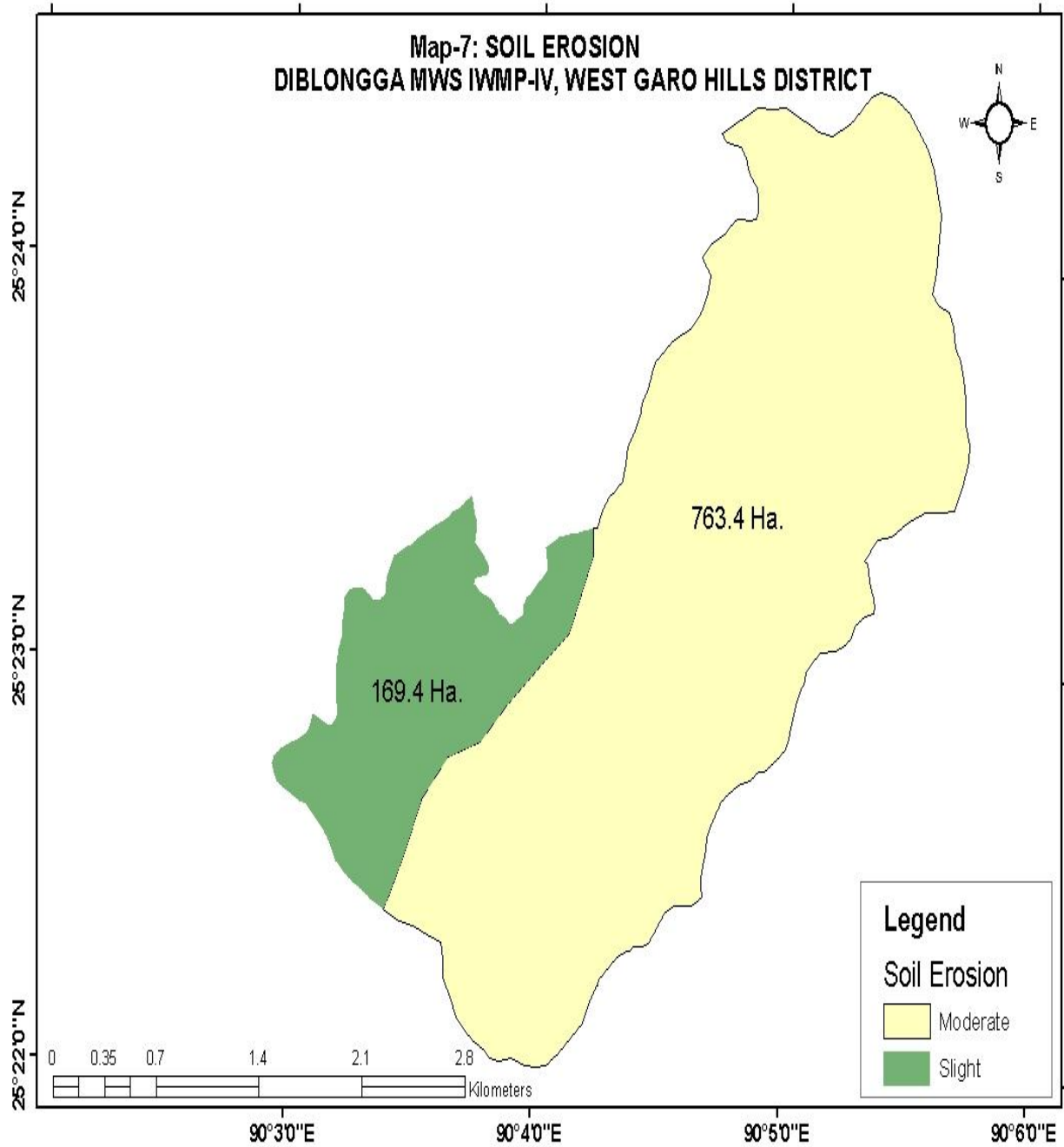


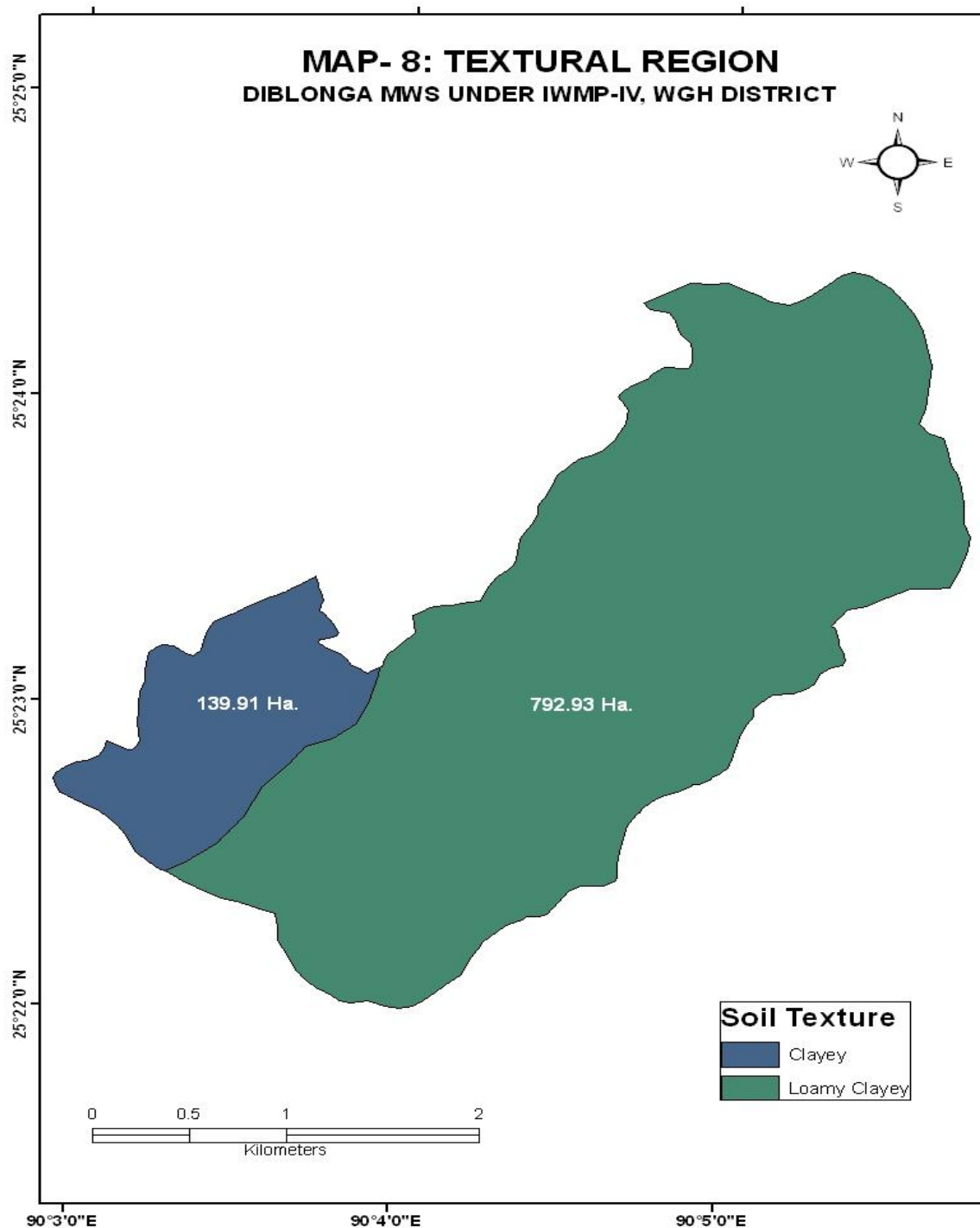


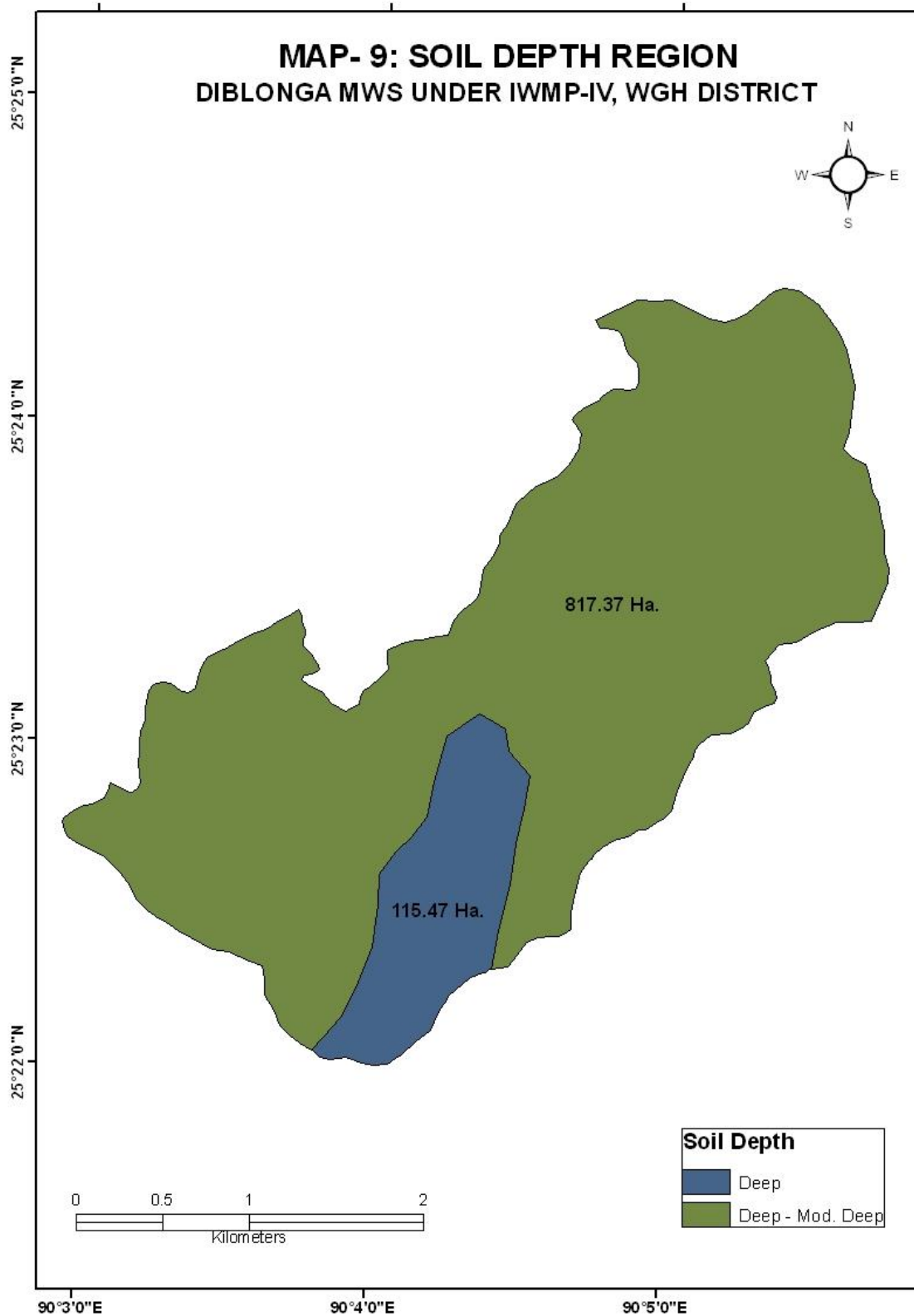


Map-6: GROUND WATER
DIBLONGGA MWS IWMP-IV, WEST GARO HILLS DISTRICT









Map-10: SOIL TYPES
DIBLONGGA MWS IWMP-IV, WEST GARO HILLS DISTRICT



26°24'0"N

26°23'0"N

26°22'0"N

0 0.3 0.6 1.2 1.8 2.4 Kilometers

90°30"E

90°40"E

90°50"E

90°60"E

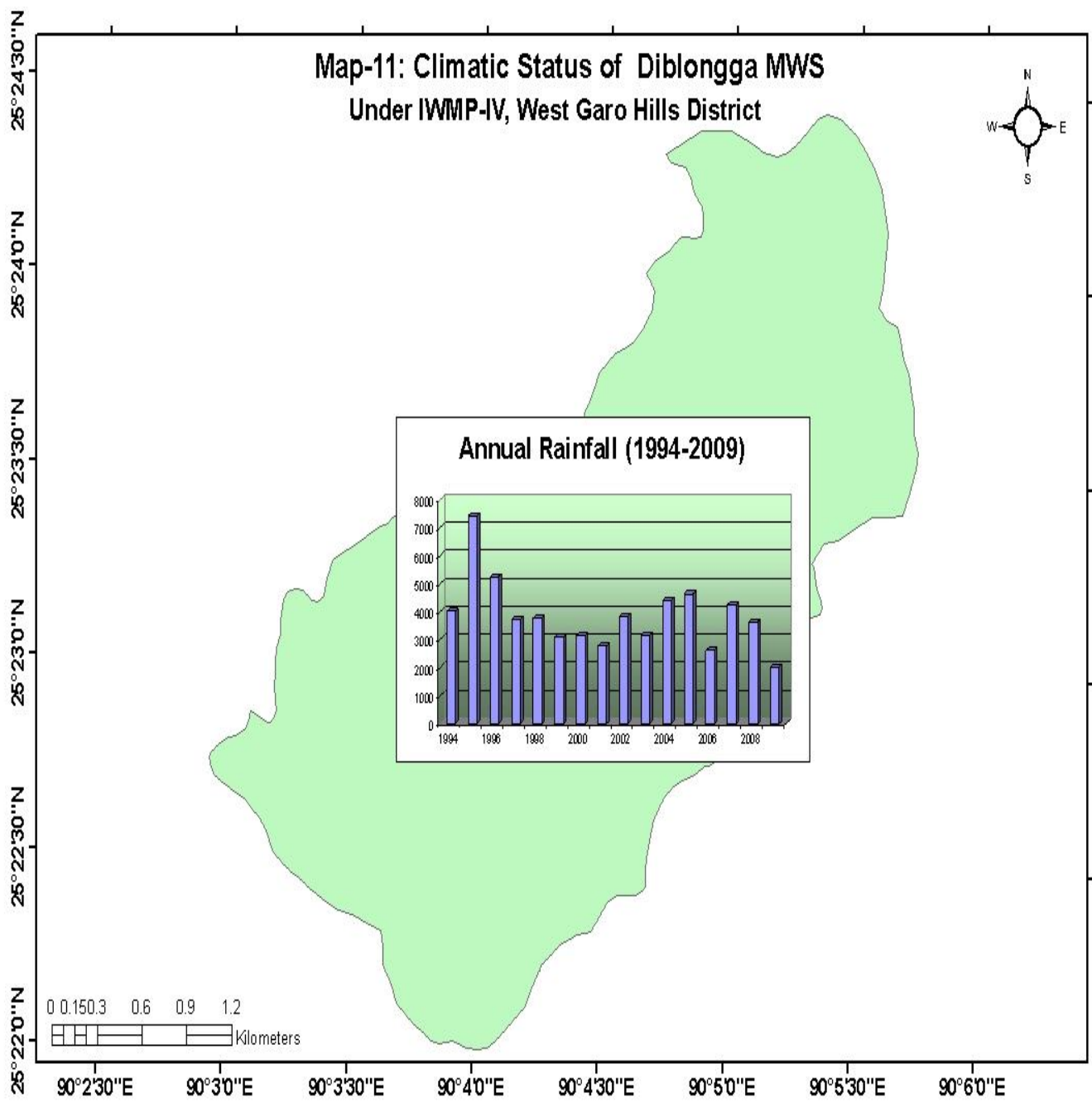
788.8 Ha.

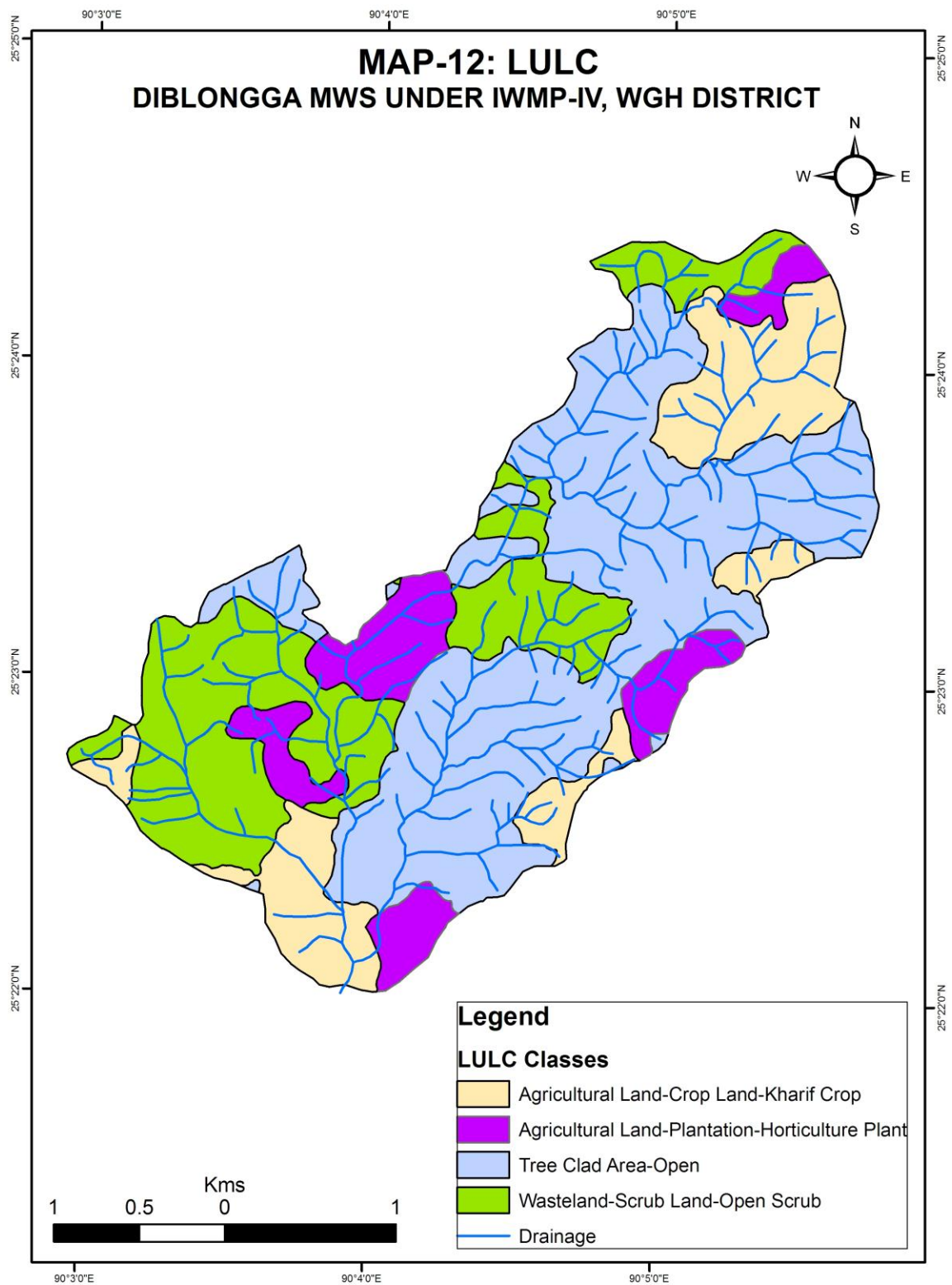
140 Ha.

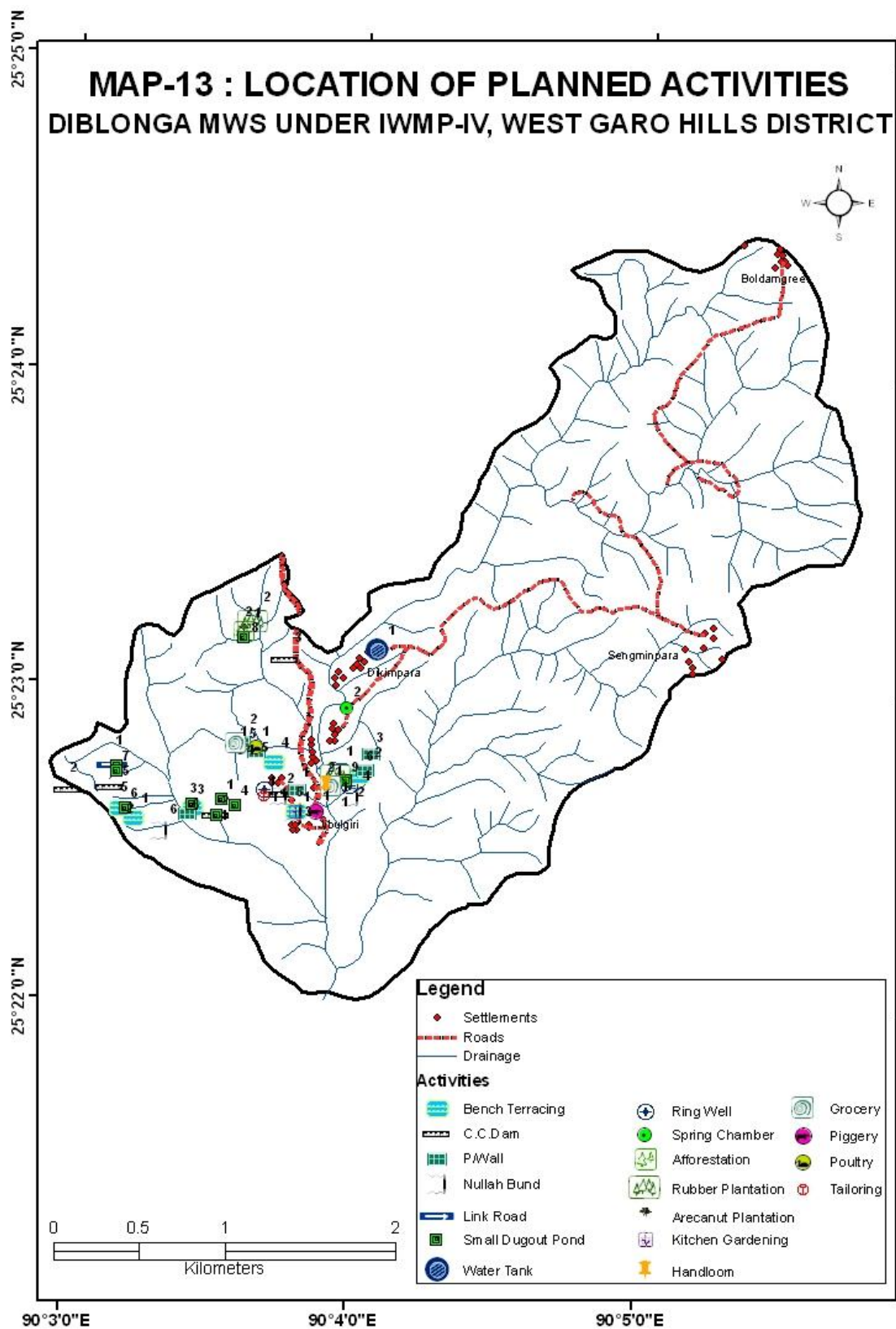
SOIL TYPES

Deep, somewhat excessively drained, fine soils on gently sloping side-slopes of hills having loamy surface with moderate erosion hazard

Deep, very poorly drained, fine soils on nearly level valley having clayey surface with very slight erosion ground water table between one to 2 metres of the surface and moderate flood hazards







ANNEXTURE III

COST ESTIMATES

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

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

Spacing 3.5 m x 2.35 m
Plant
density 1200 nos

A Preliminary Works

I.	Site clearance	
	6 mandays @Rs. 100/- per manday	600
	Pit digging (pit size 0.45mx0.45mx0.45m) 1200 nos	
II.	@Rs. 3/- each	3600
Total:		4200

B First year Planting

I.	Cost of arecanuts 1200 nos @Rs. 1/- each	7200
	Cost of planting 1200 nos @Rs. 2/- each = Rs. 2400.00 (Contribution	
II.	from	
	the beneficiaries)	
III.	Weeding two times	
	10 mandays @Rs. 100/- per manday = Rs. 2000	
	(Contribution from the beneficiaries)	7200
Total:		11400

11400

(Rupees Eleven Thousand Four Hundred) only.

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

Table 52: Details of Convergence of IWMP with other Schemes:**Name of village:** a) Jebalgre b)Dikimpara

1	2	3	4	5			6	7
District	Names of project	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	Nos/Rmt/Ha	Amount (Rs)		
				(b) livelihoods				
				(c) Any other (pl. specify)				
West Garo Hills	WGH-IWMP-II	NREGS (DRDA, West Garo Hills, Meghalaya)	3328000	a) Dugout Pond	13 nos	390000	Enclosure of Abstract of Perspective Plan for Convergence of NREGs with IWMP in DPR	District Level
				b) Bench Terrace	11 Ha	165000		
				c) Nallah Bund	4 nos	600000		
				d) CC Irrigation dam	2 nos	300000		
				e) Link Road	1.7 km	119000		
				f) RCC Footbridge				
				g) Spring chamber	7 nos	420000		
				g) Rubber Plantation	50 Ha	490000		
				h) Arecanut Plantation	80 Ha	844000		
Grand Total						3328000		

Grand Total: Rupees Thirty-Three Lakhs Twenty-Eight Thousand only.

Enclosed: Abstract of Perspective Plan for Convergence of NREGS with IWMP


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

Tura Soil & Water Conservation(T) Division


Deputy Commissioner
West Garo Hills, Tura.
 Deputy Commisssoner
 West Garo Hills, meghalaya

ESTIMATE FOR THE CONSTRUCTION OF C.C. IRRIGATION DAM WITH DISPOSAL CHANNEL ACROSS _____ STREAM AT _____

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

- 1/134. Excavation for structures (earth work in excavation of the foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deterious matters, dressing of sides and bottom and back filling with approved materials.)
 (I) Ordinary soil.
 (A) Manual means.
 (i) Upto 3 m, depth.

$$M/Dam : 1 \times 8.00 \times 1.40 \times 1.05 = 11.76m^3$$

$$W/wall : 2 \times 2.50 \times 0.45 \times 0.50 = 1.13m^3$$

$$G/wall : 2 \times 3.00 \times 0.30 \times 0.50 = 0.90m^3$$

$$T/wall : 1 \times 6.00 \times 0.45 \times 0.60 = 1.62m^3$$

$$Apron : 1 \times 6.00 \times 3.00 \times 0.35 = 6.30m^3$$

$$D/channel : 1 \times 5.00 \times 1.30 \times 0.90 = 5.85m^3$$

$$\hline = 27.56m^3$$

$$@ Rs. 34/- m^3 \quad \dots\dots\dots \quad \dots\dots\dots \quad Rs. 937.04$$

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

$$M/Dam : 1 \times 8.00 \times 1.40 \times 0.10 = 1.12m^3$$

$$Apron : 1 \times 6.00 \times 3.00 \times 0.25 = 4.50m^3$$

$$D/channel : 1 \times 5.00 \times 1.00 \times 0.25 = 1.25m^3$$

$$\hline = 6.87m^3$$

$$@ Rs. 852/- m^3 \quad \dots\dots\dots \quad \dots\dots\dots \quad Rs. 5853.24$$

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

$$M/Dam : 1 \times 8.00 \times 1.40 \times 0.10 = 1.12m^3$$

@ Rs. 3232/- m³ Rs. 3619.84

4/141 . Plain cement concrete in open foundation complete as per drawing and technical specifications.

A. P.C.C. Grade M15 :

$$M/Dam : 1 \times 8.00 \times 1.20 \times 0.80 = 7.68m^3$$

$$1 \times 8.00 \times \frac{0.50 + 1.20}{2} \times 1.05 = 7.14m^3$$

$$2 \times 1.00 \times 0.50 \times 0.50 = 0.50m^3$$

$$W/wall : 2 \times 2.50 \times 0.30 \times 2.05 = 3.08m^3$$

$$Deduct : 1 \times 1.00 \times 0.30 \times 0.60 = (-)0.18m^3$$

$$G/wall : 2 \times 3.00 \times 0.25 \times 0.95 = 1.43m^3$$

$$T/wall : 1 \times 6.00 \times 0.30 \times 0.70 = 1.26m^3$$

$$Apron : 1 \times 6.00 \times 3.00 \times 0.10 = 1.80m^3$$

$$D/channel : 2 \times 5.00 \times 0.15 \times 0.98 = 1.47m^3$$

$$1 \times 5.00 \times 1.00 \times 0.10 = 0.50m^3$$

$$= 24.68m^3$$

@ Rs. 3630/- m³ Rs. 89588.40

/

GRAND TOTAL = Rs. 99998.52

Say, Rs. 1,00,000.00

(Rupees One lakh) only.

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

1) Site preparation including jungle clearance, removal of stumps, burning and clearing the debris,
etc.,.....L/S=Rs 4535

2/134[A(i)] Excavation for structures(earthwork in excavation of foundation of structures as per
drawing and technical specification, including setting out, construction of shoring and
bracing, removal of stumps and other deleterious matter, dressing of sides and bottom
and backfilling with approved material)

Abutment=2x2.50x1.75x1.00=8.75 5 cum.

@ Rs 34/ cum.....=Rs 297.5

=Rs
298

3/141(B) Plain cement concrete in open foundation complete as per drawing and technical
specifications

PCC Grade M 20

Abutment (foundation)=2x2.50x1.75x1.00=8.75 .75 cum.

@Rs 4129/ cum.....=Rs 36129

3/141(B) Plain cement concrete in open foundation complete as per drawing and technical
specifications

PCC Grade M20

Causeway=2x9.00x2.50x0.40=18 cum.

@ Rs 4129/ cum.....=Rs 74322

4/141.G(i). Plain cement concrete in open foundation complete as per drawing and technical
specification.

RCC Grade M 30

RCC slab=1x12.00x2.50x0.35=10.5 cum.

@ Rs 4648/cum.....=Rs 48804

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

Abutment = $2 \times 2.50 \times 1.75 \times 1.00 = 8.75$
Causeway = $2 \times 9.00 \times 2.50 \times 0.40 = 18$
Slab = $1 \times 12.00 \times 2.50 \times 0.35 = 10.5$

Total =
37.25sqm

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

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

(Rupees one lakh seventy five thousand)
only.

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

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

Dugout Farm Pond

$$\begin{aligned}\text{Volume:} & \quad D/6 (AT) + 4(AM) + (AB) \\ & \quad 2.5/6 (30.00 \times 15.00) + 4(28.00 \times 13.00) + (26.00 \times \\ & \quad = 11.00) \\ & \quad = 2.5/6(450+1456+286) \\ & \quad = 913.33 \quad \text{m}^3\end{aligned}$$

.@Rs.34/- cum

Rs. 31053.22

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

2	x	30	x	2.5	150	m ²
2	x	15	x	2.5	75	m ²
					<u>225</u>	m ²

.@Rs.41.00/sq.m

9225

40278.22

Grand Total

Say

Rs.

40,000.00

(Rupees Forty thousand)only.

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

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

I.A(i) Ordinary soil

Earthen Channel	1	x	1.00	x	1.10	x	1.35	1.49	m ³
.@Rs.34/- cum							Rs.	50.49	
							Rs.	50.49	
Grand Total					Say		Rs.	50.00	

Cost per Running metre=(Rupees Fifty)only.

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

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

Dam	1	x	1.00	x	2.20	x	1.2	2.64	m ³
.@Rs.247/- cum								Rs.	652.08

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

	2	x	1.00	x	1.2		2.4	m ²
.@ Rs.41.00/sq.m							Rs.	98.4

750.48

Grand Total					Say		Rs.	700.00
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Cost per Running metre= Rupees Seven hundred only

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

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

$$1 \times 9.4 \times 1 \times 0.9 = 8.46 \text{ m}^3$$

.@Rs.34/- per
cum

Rs. 287.64

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

$$1 \times 9.4 \times 1 \times 0.1 = 0.94 \text{ m}^3$$

$$1 \times 9.4 \times 0.8 \times 0.8 = 6.02 \text{ m}^3$$

$$1 \times 9.4 \times 0.6 \times 1.5 = 8.46 \text{ m}^3$$

$$15.42 \text{ m}^3$$

.@ Rs.3232/- per
cum

Rs 49824.51

	Rs.	50,112.15
Say,	Rs.	50,000.00

**Grand total(Rupees fifty thousand)
only.**

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

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

I.A(i) Ordinary soil

Core wall	1	x	12.30	x	0.90	x	0.80	8.86	m ³
L/Channel	1	x	5.00	x	1.10	x	1.25	6.88	m ³
								15.73	m ³

.@Rs.34/- cum Rs. **534.854**

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

Core wall	1	x	12.30	x	0.90	x	0.10	1.11	m ³
	1	x	12.30	x	0.80	x	0.70	6.89	m ³
	1	x	12.30	x	0.55	x	1.50	10.15	m ³
L/ channel	2	x	5.00	x	0.15	x	1.25	1.88	m ³
	2	x	5.00	x	0.10	x	0.80	0.80	m ³
								20.82	m ³

.@ Rs.3232/- cum Rs. **67282.16**

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

Dam	1	x	12.30	x	5.20	x	1.8	115.13	m ³
Deduct	1	x	12.30	x	0.55	x	1.50	10.15	m ³
								104.98	m ³

.@Rs.247/- cum Rs. **25930.18**

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

L/channel	2	x	5.00	x	0.90			9.00	m ²
	2	x	5.00	x	0.15			1.50	m ²
	1	x	5.00	x	0.8			4.00	m ²
								14.50	m ²

.@ Rs.75/- per sq.m Rs. **1087.50**

C.O. Rs. **94834.70**

B.F. Rs. **94834.70**

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

Dam	1	x	12.30	x	2.01	24.723	m ²
	1	x	12.30	x	2.5	30.75	m ²
						<hr/>	
						55.473	m ²
.@ Rs.41.00/sq.m						Rs.	2274.393

7/100 Providing and laying pitching on slopes laid over prepared filter media as per drawing and technical specification.

I. Stone/Boulder

Dam	12.30	x	2.01	x	0.15	3.70845	m ³
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.@ Rs.	884/- per cum	3278.27
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		Rs.	100387.36
Grand Total	Say	Rs.	1,00,000

(Rupees One lakhs)only.

**ESTIMATE FOR THE CONSTRUCTION OF SPRING CHAMBER WITH WATER RESERVOIR.
UNDER IWMP.**

(Rates as per P.W.D Schedule of rates for building works) 2007 – 2008

1/1.1 Earth work in excavation in foundation trenches, including dressing of sides and ramming of the bottom including stacking etc.

d) Soft laminated rock or medium shale.

For Spring Chamber:

$$1 \times 1 \times 2.5 \times 0.80 \times 1.10 = 2.20 \text{ m}^3$$

$$1 \times 2 \times 2.5 \times 0.80 \times 0.70 = 2.24 \text{ m}^3$$

For Reservoir:

$$1 \times 2 \times 2.5 \times 0.30 \times 0.50 = 0.75 \text{ m}^3$$

$$1 \times 2 \times 1.5 \times 0.30 \times 0.50 = 0.45 \text{ m}^3$$

For Pipe Pedestals:

$$10 \times 0.40 \times 0.40 \times 0.60 = 0.96 \text{ m}^3$$

$$6.60 \text{ m}^3$$

@ Rs. 85/- m³

Rs. 561.00

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

For Spring Chamber:

$$1 \times 1 \times 2.50 \times 0.80 = 2.00 \text{ m}^3$$

$$1 \times 2 \times 2.00 \times 0.80 = 3.20 \text{ m}^3$$

For Reservoir: m³

$$1 \times 2 \times 2.50 \times 0.30 = 1.50 \text{ m}^3$$

$$1 \times 2 \times 1.50 \times 0.30 = 0.90 \text{ m}^3$$

$$1 \times 1 \times 2.50 \times 1.50 = 3.75 \text{ m}^3$$

For Pipe Pedestal: m³

$$10 \times 0.40 \times 0.40 = 1.60 \text{ m}^3$$

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

@ Rs. 115/- m³

Rs. 1,489.25

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

For Spring Chamber:

$$1 \times 1 \times 2.50 \times 0.80 \times 0.10 = 0.20 \text{ m}^3$$

$$1 \times 2 \times 2.00 \times 0.80 \times 0.10 = 0.32 \text{ m}^3$$

For Reservoir:

$$1 \times 2 \times 2.50 \times 0.30 \times 0.10 = 0.15 \text{ m}^3$$

$$1 \times 2 \times 1.50 \times 0.30 \times 0.10 = 0.09 \text{ m}^3$$

For Pipe Pedestals:

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

4/2.2

Providing and laying cement concrete in prop. 1:3:6 etc.

For Spring Chamber:

$$\begin{aligned} 1 \times 1 \times 2.50 \times 0.60 \times 0.70 &= 1.05 \text{ m}^3 \\ 1 \times 2 \times 2.00 \times 0.60 \times 0.65 &= 1.56 \text{ m}^3 \\ 1 \times 1 \times 2.50 \times \frac{0.26 + 0.55}{2} \times 1.35 &= 1.36 \text{ m}^3 \\ 1 \times 2 \times 2.00 \times \frac{0.25 + 0.26}{2} \times 0.45 &= 1.80 \text{ m}^3 \\ 1 \times 2 \times 2.00 \times \frac{0.25 + 0.55}{2} \times 1.80 &= 2.80 \text{ m}^3 \end{aligned}$$

For Reservoir :

$$\begin{aligned} 1 \times 2 \times 2.50 \times 0.30 \times 0.30 &= 0.45 \text{ m}^3 \\ 1 \times 2 \times 1.50 \times 0.30 \times 0.30 &= 0.27 \text{ m}^3 \\ 1 \times 1 \times 2.50 \times 1.50 \times 0.20 &= 0.75 \text{ m}^3 \end{aligned}$$

For Pipe Pedestals:

$$10 \times 0.30 \times 0.30 \times 0.40 = \frac{0.36 \text{ m}^3}{10.40 \text{ m}^3} @ \text{Rs. } 2719/- \text{ m}^3 \quad \text{Rs. } 28,277.60$$

5/2.9(a)

Providing shuttering including centering for flat surface such as slabs,shelves,chajja and for vertical faces such as column etc.

For spring chamber:

$$\begin{aligned} 1 \times 2 \times 2.50 \times 0.70 &= 3.50 \text{ m}^{\square\square} \\ 2 \times 2 \times 2.00 \times 0.65 &= 5.20 \text{ m}^{\square\square} \\ 1 \times 1 \times 2.50 \times 1.50 &= 3.75 \text{ m}^{\square} \\ 1 \times 1 \times 2.50 \times 1.60 &= 4.00 \text{ m}^{\square} \\ 1 \times 2 \times \frac{0.25+0.26}{2} \times 0.45 &= 0.225 \text{ m}^{\square} \\ 2 \times 2 \times 2.00 \times 0.70 &= 5.60 \text{ m}^{\square} \\ 2 \times 2 \times 0.60 \times 0.70 &= 1.68 \text{ m}^{\square} \\ 2 \times 1 \times 2.00 \times 1.50 &= 6.00 \text{ m}^{\square} \\ 2 \times 1 \times 2.00 \times 1.60 &= 6.40 \text{ m}^{\square} \\ 2 \times 1 \times \frac{0.25+0.55}{2} \times 1.60 &= 1.28 \text{ m}^{\square} \end{aligned}$$

For Reservoir :

$$\begin{aligned} 1 \times 2 \times 2.50 \times 0.30 &= 1.50 \text{ m}^{\square\square} \\ 1 \times 2 \times 0.30 \times 0.30 &= 0.18 \text{ m}^{\square} \\ 1 \times 2 \times 1.50 \times 0.30 &= 0.90 \text{ m}^{\square} \\ 1 \times 2 \times 2.50 \times 1.50 &= 7.50 \text{ m}^{\square} \\ 1 \times 2 \times 1.50 \times 1.50 &= 4.50 \text{ m}^{\square\square} \\ 1 \times 1 \times 2.50 \times 1.50 &= 3.75 \text{ m}^{\square} \\ 1 \times 2 \times 2.50 \times 0.10 &= 0.50 \text{ m}^{\square} \\ 1 \times 2 \times 1.50 \times 0.10 &= 0.30 \text{ m}^{\square} \end{aligned}$$

For Pipe Pedestals:

$$10 \times 4 \times 0.30 \times 0.40 = 4.80 \text{ m}^{\square\square}$$

$$10 \times 4 \times 0.15 \times 0.15 = \frac{0.90 \text{ m}^3}{62.46 \text{ m}^3}$$

@ Rs. 148/- m²

Rs. 9,244.82

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

For Reservoir:

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

$$1 \times 2 \times 1.50 \times 0.15 \times 1.50 = 0.67 \text{ m}^3$$

$$1 \times 1 \times 2.50 \times 1.50 \times 0.10 = 0.37 \text{ m}^3$$

For pipe pedestals:

$$10 \times 0.15 \times 0.15 \times 1.20 = 0.27 \text{ m}^3$$

$$= 2.43 \text{ m}^3$$

@ Rs. 3280/- m³

Rs. 7,970.04

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

10#Tor steel:

For Reservoir:

$$2 \times 12 \times 2.30 = 27.60 \text{ Rm.}$$

$$2 \times 9 \times 2.30 = 41.40 \text{ Rm.}$$

For pipe pedestals:

$$10 \times 4 \times 1.50 = 60.00 \text{ Rm.}$$

$$= 128.00 \text{ Rm.}$$

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

8#Tor steel :

For Reservoir:

$$2 \times 12 \times 1.40 = 33.60 \text{ Rm.}$$

$$2 \times 9 \times 2.40 = 43.20 \text{ Rm.}$$

$$2 \times 10 \times 1.40 = 28.00 \text{ Rm.}$$

$$2 \times 10 \times 1.40 = 28.00 \text{ Rm.}$$

$$= 132.80 \text{ Rm.}$$

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

For pipe pedestals:

$$10 \times 9 \times 0.50 = 45.00 \text{Rm.}$$

$$@ 0.22 \text{kg./Rm} \quad . \quad = \frac{9.90 / \text{kgs}}{2.572 \text{ Qntls.}}$$

@ Rs.5373/- Qtl.	Rs.	138.23
------------------	-----	--------

8/ Providing and fixing G.I. pipes including necessary
Sockets, bends, jamnuts, elbows, tees etc.complete.
(Rate as per market rates).

(a) 75mm G.I. Pipes. Length – 1.30R.M. @ Rs.500/-Rm.	Rs.	650.00
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(b) 50mm G.I. Pipes. Length – 27.05 R.M. @ Rs. 350/-Rm.	Rs.	9,467.50
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GRAND TOTAL :	Rs. 60,002.82
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Say, Rs. 60,000.00

(Rupees sixty thousand) only.

ANNEXTURE IV
MoA, SUB-COMMITTEE DETAILS ETC

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

Name of village:		a) Jabelgre b) Dikimpara									
1	2	3	4	5			6	7			
District	Names of project	Names of Departments with Schemes converging with IWMP	Fund made available to IWMP due to convergence (Rs. in lakhs)	Name of activity/task/structure undertaken with converged funds			Reference to activity/task/structure in DPR	Level at which decision for convergence was taken			
				(a) Structures	(b) Fuel/roads	(c) Any other (pl. specify)			No. (a+b+c)	Amount (Rs.)	
West Garo Hills	WGH-IWMP-II	NREGS (MDDA, West Garo Hills, Meghalaya)	3328000	a) Dugout Pond	13 nos		13 nos	590000	Enclosure of Abstract of Perspective Plan for Convergence of NREGS with IWMP in DPR	District Level	
				b) Bench Terrace	11 Ha		11 Ha	155000			
				c) Nallah Bund	4 nos		4 nos	600000			
				d) CC Irrigation dam	2 nos		2 nos	300000			
				e) Link Road	1.7 km		1.7 km	115000			
				f) RCC Footbridge							
				g) Spring chamber	7 nos		7 nos	420000			
				h) Rubber Plantation	50 Ha		50 Ha	490000			
				i) Arecanut Plantation	80 Ha		80 Ha	840000			
				Grand Total							


Grand Total: Rupees Thirty-Three Lakhs Twenty-Eight Thousand only.

Enclosed: Abstract of Perspective Plan for Convergence of NREGS with IWMP



Divisional Officer

Tura Soil & Water Conservation(T) Division


Deputy Commissioner
West Garo Hills, Meghalaya

Name of Village:	Date of Job Card Holder:

Journal of Management Education 30(6) 798-810
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In Ruqasi

PROJECT PERIOD															Total	Miledays to generated
(In Rupees)																
Sl. No.	ACTIVITIES	Units	2013-11		2011-12		2012-13		2013-14		PHY	FIN	PHY	F.N		
			PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN						
			Wages	Material	Wages	Material	Wages	Material	Wages	Material						
1	1. Digging for 2000 sq. ft. (2000 sq. ft.)	3000	1	40000	3	50000							4	120000	0	1712
2	2. Soil for 2000 sq. ft. (2000 sq. ft.)	100			2	30000							2	30000	0	520
3	3. Water Pumping (2000 sq. ft.)	100					1	50000					2	100000	120000	2541
4	4. Water Pumping (2000 sq. ft.)	100											1	90000	80000	1288
5	5. Water Pumping (2000 sq. ft.)	100											0.2	25000	0	523
6	6. Water Pumping (2000 sq. ft.)	100			1	30000							3	100000	72000	1543
7	7. Water Pumping (2000 sq. ft.)	100											25			
8	8. Water Pumping (2000 sq. ft.)	100												45000	0	643
9	9. Water Pumping (2000 sq. ft.)	100			25	50000			25	50000			25	200000	0	2367
10	10. Water Pumping (2000 sq. ft.)	100											50			
11	11. Water Pumping (2000 sq. ft.)	100												72000	0	1129
12	12. Water Pumping (2000 sq. ft.)	100			37	74000			25	50000			34	85000	0	2655
13	13. Water Pumping (2000 sq. ft.)	100												1120000	252000	16000
GRAND TOTAL			300000	0	200000	24000		200000	120000					1120000	252000	16000

amount allocated for convergence for the period 2010-11 to 2013-14	
to 199500	
to 289700	
Material Component	127800
Grant total	
Grand Total (Rupees Thirteen Lakhs seventy-two thousand) only.	

LT: of Rangli Sangora

Chairman
Jorge Vello
Secretary, U.S. Post
President
Schulzberg, V.I.C.
Secretary, U.S. Post

Secretary
J. Edgar Hoover
Washington, D.C.

Jul 20 1964

asked.

AGREEMENT FOR CONVERGENCE OF SCHEME

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

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

1. Dugout Pond.
2. Bench Terrace.
3. Spring Chamber.
4. Link Road.
5. Nallah Bund.
6. CC Irrigation Dam
7. Rubber Plantation.
8. Arecanut Plantation.

L T I of Rongki Sangma



Chairman,
Village Employment Council
Jebalgro
Gambegre Block, WGII

Signature
Jebalgro V.E.C.
West Garo Hills.

Signature Harada
Secretary,

Village Employment Council
Jebalgro
Gambegre Block, WGII

Signature
Jebalgro V.E.C.
West Garo Hills.

AGREEMENT FOR CONVERGENCE OF SCHEME

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

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

1. Dugout Pond.
2. Bench Terrace.
3. Spring Chamber.
4. Link Road.
5. CC Irrigation Dam
6. Nullah Bund.
7. Rubber Plantation.
8. Arecanut Plantation.

Antoni Nath
Chairman,
Village Employment Council
Dikimpura
Gambegre Block, WGH
President,
Dikimpura V.C.
West Garo Hills.

Bablu D. Sharma
Secretary,
Village Employment Council
Dikimpura
Gambegre Block, WGH

Secretary,
Gambegre V.C.
West Garo Hills.

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

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

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

Name & Signature of A'king Nokma



R91 7
Smt. M. N. Dujon
Nokma II-19 (24)
Dikgimpara A'king
West Garo Hills

Countersigned by



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

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

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

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

Name & Signature of A'king Nokma



27/5
JMS M. K. Sangma
Yokma II-19 (24)
Dikgimpara A'king
West Garo Hills

Countersigned by

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