

GOVERNMENT OF MEGHALAYA



सत्यमेव जयते

**DETAILED PROJECT REPORT
OF**

CHIMESENG MICROWATERSHED

**UNDER
INTEGRATED WATERSHED MANAGEMENT PROGRAMME
WGH-IWMP – III
2009-2010**

**SELSELLA BLOCK
WEST GARO HILLS, MEGHALAYA**

SUMMARY

Name of the Sate	:	Meghalaya
Name of the District	:	West Garo Hills
Name of the C&RD Block	:	Selsella
Name of the Villages	:	dingnapara Chibonggagre
Name of the Project	:	IWMP-III
Total Geographical Area	:	612.30 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 Chimeseng (IWMP - III) Project is located in Selsela C&RD Block, West Garo Hills District of Meghalaya. Consisting of a single micro-watershed, the project area is drained by the Chimeseng River and its tributaries flowing in a South to North direction. The total area is 612.30 Ha. with 500 ha to be treated under the Integrated Watershed Management Programme (IWMP).

The Project area is located at a distance of about 30 km from Dadeng Civil Sub-Division and about 52 km from Tura the District Headquarter. There are 2(two) villages under the Project Area. i.e. Dingnapara & Chibonggagre.

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 612.30 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 Chimeseng IWMP-III 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. 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:- 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 in West Garo Hills District of Meghalaya. It lies between 25°41'02" and 25°43'24" North Longitude and 90°02'33" and 90°04'24" East Latitude respectively. It falls under the Jurisdiction of Dadeng Sub-Division at a distance of 52 km from Tura the district Headquarter of West Garo Hills. There are two villages within the Project Area. i.e. Dingnapara & Chibonggaire.

2.2 Physiography:

The physiography of the micro-watershed is highly undulating. The altitude ranges from a minimum of 40.m to a high of 100 m above mean sea level. In the lower reaches (valley lands) the slope ranges from 1-5% , however, in the middle 5-15% and upper reaches 15-25% it is greater than 50%..

Table 2.1: Physiographic details

Elevation (metres)	Slope Range (%)	Order of watershed Sub/Micro-watershed	Major streams	Topography
40 - 100	1 – 50%	3 rd Order Micro W/S	Chimeseng stream, Songgitcham stream, Mongnal stream, Nanjing stream, Manggala stream	Flat and Gentle slope.

2.2 Drainage :

The major stream draining the micro-watershed is the Chimeseng Stream which is 3rd order stream flowing in a north-south direction. The slopes of the micro-watershed are dissected by numerous small tributaries flowing to the Chimeseng Stream and drains into Galwang River.

2.3 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 exist. The watershed area does not have a major erosion problem but of moderate erosion.

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	West Garo Hills – IWMP III	Water erosion:				
				a	Sheet			
				b	Rill	500	NA	NA
				c	Gully			
				Sub total		500		
				Wind erosion		nil	nil	Nil

2.4 Climate :-

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

Table 2.4: 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 Hyper-thermic Agro-climatic	500	West Garo Hills.	W.G.H. IWMP III	Clayey	196.96	3600	Paddy	142.10
									Maize	33.00
									Areca nut	193.80
									Cashew	100.00
						Total	500			

2.5 Agriculture :-

Agriculture is the primary occupation of the people of the area. Jhum cultivation is sparsely practiced. Under settled farming, the principal crops are paddy and maize. Horticulture crops consist mainly of arecanut and cashew and contribute reasonable income to the farmers.

Table 2.4: Crop yield and production

Crops	Area (ha)	Average Yield (Qtl) per ha.	Total Production (Qtl.)
paddy	142.10	15	2131.50
Maize	33.00	42	1386.00
Arecanut	193.80	8	1550.40
Cashew	100.00	20	2000.00

2.1 Natural Vegetation :

The tree species common to the watershed area includes – *Albizzia spp*, *Schima wallichii*, *Emblca officianalis*, *Bombax cieba*, and *bamboo spp*. Expansion of horticulture plantation including jhumming has resulted in shrinking of natural forest and reduction of biodiversity.

2.2 Socio-Economic Profile :

The Socio-economic condition of the people is poor. According to Census 2002(MORD), about 28 families are listed under Below Poverty Line category. The per capita land holding of agricultural land is 4.00 ha. The entire population depends upon agriculture and horticulture for sustenance. There are about 109 small farmers with average agricultural land holding of 1-2 Ha

2.3 Demographic Status : The total households in the watershed project is 108 nos. with a total population of 436 nos, of which 204 nos. are male and 232 nos are female.

Table 2.5: Infrastructure Status.

Infrastructure facilities :

2.1.1 **Roads** : The project area is about 4 km from the main road and is connected by an all-weather road

2.1.2 **School:** There are only 2 L.P Schools within the Project Area run by the Government.

2.1.3 **Electricity** : only 30% of the village households are electrified.

2.1.1 **Health** : : There is no health centre in the villages. 2(two) nos of anganwadi centre is located in the project area.

2.1.2 **Water Supply** : There is no drinking water facilities in the project villages. The villagers depend totally on the available drinking well/open well and natural streams to suffice their needs.

2.1.3 **Market** : There is a weekly market held once in a week a Kalchengpara .However, the main market where the people sell their produce is at Selsella.

Table 2.5: Infrastructure Status.

1	2	3		4			
Name of District	Name of Project	Parameters:		Status			
West Garo Hills	West Garo Hills – IWMP III	(i)	No. of villages connected to the main road by an all-weather road.	All villages are connected to the main road			
		(ii)	No. of village provided with electricity	1			
		(iii)	No. of households without access to drinking water	13 nos.			
		(iv)	No. of educational institutions: Primary (P)/ Secondary (S)/ Higher Secondary (HS)/ Vocational institution (VI)	(P)	(S)	(HS)	(VI)
				2Nos.	-	-	-
		(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	2					
(xiv)	Any other facilities with no. of villages (please specify)	Nil					

2.3 Livestock :

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

Table 2.6: Existing livestock population

Type of Animal	Population
Piggery	60
Poultry	600
Cattle	152
Total	812

2.4 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
WGH	WGH IWMP III	(i) Large	-	-	-	-	
		(ii) Small	108	28	46.60	142.10	188.70
		(iii) Marginal	-	-	-		
		(iv) Landless	-	-	-	-	
		Sub - Total	108	28	46.60	142.10	188.70

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	West Garo Hills IWMP III	(i) Wasteland/ degraded land	-	-	-	60.80	-	-	-	60.80
		(ii) Pastures	-	-	-	-	-	-	-	-
		(iii) Private Agriculture land	188.70	-	-	-	177.00	-	-	-
		(iv) Village woodlot	-	-	-	-	-	-	-	-
		(v) Forest	-	-	-	36.50	-	-	-	36.50
		(vi) Village Ponds/ Tanks	-	-	-	-	-	-	-	-
		(vii) Community Buildings	-	-	-	-	-	-	-	-
		(viii) Weekly Markets	-	-	-	-	-	-	-	-
		(ix) Permanent Markets	-	-	-	-	-	-	-	-
		(x) Temples/ Places of worship	-	-	-	-	-	-	-	-
		(xi) Others (Pl. specify) Habitation Horticulture Plantation	18.60 40.00	- -	- -	13.90 253.80	16.00 40.00	- -	- -	13.90 155.80
Total	247.30	-	-	365.00	233.00	-	-	267.00		

2.4 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	=	18.60 Ha
b) Agricultural land-crop land-kharif crop	=	142.10 Ha
c) Horticulture Plantation	=	293.80 Ha
d) Wasteland open-scrub	=	9.10 Ha.
e) Forest – open	=	36.50 Ha
f) Agri-two Cropped Area	=	46.60 Ha
g) Water bodies-river/stream-dry	=	13.90 Ha
h) <u>Wetland-inland Natural</u>	=	<u>51.70 Ha</u>
Total	=	612.30 Ha

2.5 Problems of the Area :

Only 5.96 % of the project area is under forest cover. Natural vegetation has been replaced by plantations and is further aggravated by continuous jhumming in small pockets. There is constant pressure on existing water resources and its deficiency has been felt. There is also shrinkage in areas under natural wetlands due to its conversion to cultivable land. To mitigate these 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 is conducted in all the villages within the Watershed.

Further the major problems in the project area are :-

- (i) Unsustainable exploitation of forest vegetation.
- (ii) Absence of soil and water conservation measures.
- (iii) Lack of technical knowledge on crop management and water management.
- (iv) Poor socio economic set up.
- (v) Fire hazards

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.	
	Baseline survey	YES
	Hydro-geological survey	NO
	Contour mapping	YES
	Participatory Net Planning (PNP)	YES

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

	2	3	
Names of Districts	Names of projects	Details of PIA	
West Garo Hills	W.G.H. IWMP-III	(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 Chimeseng Watershed IWMP-III was constituted with the active involvement of the villagers with strong support of the Traditional Institutions (Village Durbar/Council). The Chimeseng 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	Landless	UG	SHG	GP	Any other	Educational qualification	Function/s assigned#		
W.G.H	W.G.H- IWMP III	Chimeseng	2010	President	M		ST									IX	A to I		
				Secretary	M		ST										masters	A to I	
				Member	5 M		ST											V to X	A to I
				Member	3 F		ST												A to I
				Member															

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

ii) Self Help Group

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

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

1	2	3				4				5			6		
Names of the Districts	Names of projects	Total no. of registered SHGs				No. of members				No. of SC/ST in each category			No. of BPL in each category		
		With only Men	With only Women	With both	Total	Categories	M	F	Total	M	F	Total	M	F	Total
W.G.H	W.G.H IWMP III			1	1	(i) Landless									
						(ii) SF	7	7	14	7	7	14	-	-	-
						(iii) MF									
						(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
W.G.H	W.G.H IWMP					(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 III	3.00 Lakh	Construction of Spring Chamber	3.00 Lakh	3.00 Lakh	-	N.A	Increase in drinking water availability

i) 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	Preparatio n of DPR	Evaluation of DPR	Any other (please specify)	Cost incurred (Rs. In lakh)
W.G.H	W.G.H IWMP III	a) Rapport Building b) Community meeting c)Formation of Watershed committee m	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/Establishe d farms etc.	a)Pamphlets b)Banners c)Posters	a)Participatory Rural Appraisals b)Socio Economic Survey	a)GPS survey b)Engi-neering Survey	a) NIRD b)SIRD c)ICAR d)NEHU	a) NOC with village headman for under-taking develop-mental works b) Agreement for es-tablishing /maintaing forest reserves. c) Agreement for convergence of NREGS scheme with IWMP with VEC.	a)Resource inventory works. b) Geo-refering. c) Printing & publishing work.	Done	Entry Point Activity	4.50

4.2 Watershed Works Phase:

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

S l. N o	Name of States	Name of Districts	Name of Projects	Type of structures	6			7											
					Pre Project			Proposed Project											
					No	Area irrigated (ha)	Storage capacity	Augmentation/ repair of existing structures				Construction of new structures				Total target			
No	Area to be treated (ha)	Storage capacity	Estimated cost (in lakhs)	No				Area to be treated (ha)	Storage capacity (per unit)	Estimated cost (in lakhs)	No	Area to be treated (ha)	Storage capacity (m ³)	Estimated cost					
1	Megh alaya	W.G.H	W.G.H IWMP III	Check Dam- Cum irrigation dam	-	-	-	-	-	-	-	4 Nos	86 Ha	375	5.00	4 Nos	86 Ha	1500	5.00
				Water harvesting farm pond	-	-	-	-	-	-	-	3 Nos	106 Ha	1125	6.00	3 Nos	106 Ha	3375	6.00
				Earthern Irri channel	-	-	-	-	-	-	-	800 rmt	24 Ha	0.10	0.40	800 rmt	24 Ha	80	0.40
				Total	-	-	-	-	-	-	-	-	216	1500.10 m³	11.40		216	4955	11.40

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 (m ³)	Estimated incurred		
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-

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

1	2	3	4	5	6		7						8						9																										
					Pre-project		Proposed target						Achievement due to project																																
					No.	Area irrigated (ha)	Augmentation/ repair of existing recharging structures			Construction of new recharging structures			Total target		Augmentation/ repair of existing recharging structures			Construction of new recharging structures			Total achievement																								
No.	Area to be irrigated (ha)	Estimated cost	No.	Area to be irrigated (ha)			Estimated cost	Area to be irrigated (ha)	Estimated cost	No.	Area irrigated (ha)	Expendi-ture incurred	No	Area irri-gated (ha)	Expendi-ture incurred	Area irri-gated (ha)	Expendi-ture incurred																												
S. No.	Names of States	Names of Districts	Names of projects	Type of structures	No.	Area irrigated (ha)	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)	Expendi-ture incurred	No	Area irri-gated (ha)	Expendi-ture incurred	Area irri-gated (ha)	Expendi-ture incurred	Change in irrigated area (Col. 8-6) (ha)																						
																								Megalha	West Garo Hills	WGH IWMP III	(i)Open wells	Nil	NIL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
																											(ii)Bore wells																		
(iii)Any others (Pl. specify)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																						
				Total for the project	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																						

4.2.3 Activities executed by User Groups in the Project Areas.

Names of Districts	Names of Projects	Major activities of the UGs –Targets						No. of UGs involved	Estimated Cost	Amount of WDF to be collected (Rs.)
		Structure/ activity proposed				Treatment (ha)				
		Sl. No.	Type	No.#						
W.G.H	W.G.H IWMP-III	1.	C.C Check Dam cum irrigation Dam	4 Nos	86 Ha	2	5.00	0.25		
		2	Stone Masonry Protection wall	2 Nos	39 Ha	2	1.00	0.05		
		3	Water Harvesting Farm Pond	3 Nos	106 Ha	2	6.00	0.30		
		4	Earthen Irrigation Channel	800 rmt	24 Ha	1	0.40	0.02		
		5	Dug out Pond	25 Nos	20 Ha	5	10.00	0.50		
		6	Earthen embankment	350 rmt	40 Ha	1	2.45	0.1225		
					315 Ha	13	24.85	1.2425		

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 Dam cum Irrigation Dam	4 Nos	86 Ha	2	5.00	-	2100	900	0.25
2	Stone Masonary Protection wall	2 Nos	39 Ha	2	1.00	-	490	210	0.05
3	Water Harvesting Farm Pond	3 Nos	106 Ha	2	6.00	-	2520	1080	0.30
4	Earthen Irrigation Channel	800 rmt	24 Ha	1	0.40	-	280	120	0.02
5	Dug out Pond	25 Nos	20 Ha	5	10.00	-	7000	3000	0.50
6	Earthen embankment	350 rmt	40 Ha	1	2.45	-	1715	735	0.1225
	Total		315 Ha	13	24.85	-	14105	6045	1.2425

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-III	Piggery	3	1.20
		Poultry	2	0.70
	Total		5	1.90

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		
		N	I	L							

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		Horticulture Development		Pasture 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) (Rs)	(a)	(b) (Rs)	(a)	(b) (Rs)	(a)	(b) (Rs)	(a)	(b) (Rs)	(a)	(b) (Rs)	
W G H	W.G.H IWMP-III	115 Ha	11.55	315 Ha	24.85	-	-	20 Ha	3.00	50 Ha	5.70	-	-	Piggery	1.2	fingerlings	0.25	-	-	Kitchen garden	7.5	
	Total	-	11.55		24.85				3.00		5.70	-	-		1.90	-	0.25	-	-		7.50	54.75

4.2.8 Details of engineering structures in watershed works:

1	2	3	4			5			6	7				8							
			Type of treatment			Type of land				Executing agency	Target				Achievement						
			(i) Ridge area (R)	(ii) Drainage line (D)	(iii) Land Dev. (L)	(i) Pri-vate	(ii) Com-munity	(iii) Others (pl. specify)			(i) UG (ii) SHG (iii) Others (pl. specify)	No. of units (No./ cum./ rmt)	Estimated cost (Rs. in lakh)				Expected month & year of completion (mm/yyyy)	No. of Units (No./ cu.m./ rmt)	Expenditure incurred (Rs. in lakh)		
M	W	O							T	M			W	O	T						
W.G.H	W.G.H IWMP III	Dug out Pond	-	D	-	P	-	UG/WC	25 nos		10.00		10.00	4 yrs.							
		Check Dam cum irrigation Dam	-	D	-	-	C	-	UG/WC	4 nos	2.00	3.00		5.00	4 yrs.						
		Wet Terrace	-		L	P		-	UG/WC	20 Ha		3.00		3.00	4 yrs.						
		Stone masonry Protection Wall	-	D	-	-	C	-	UG/WC	2 nos	0.40	0.60		1.00	4 yrs.						
		Earthen irrigation Channel	-	D	-	-	C	-	UG/WC	800 rmt		0.40		0.40	4 yrs.						
		Water Harvesting farm pond.	-	D	-	-	C	-	UG/WC	3 nos	2.40	3.60			4yrs.						
		Earthen embankment	-	D	-	-	-	-	UG/WC	350 rmt		2.45		2.45	3 yrs.						
		Total									4.80	23.05									

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	Women	Total	
NA	-	NA	-	NA	-	NA	-	-	14105	-	6045	20150	-	140		60	200	

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	Expendi-ture incurred (Rs. in lakh)	Actual month & year of comple-tion (mm/ yyyy)
West Garo Hills	WGH-IWMP-III	Afforestation	R	-			C		UG/SHG	50	5000	1.80	4 yrs				
		Rubber Plantation	-	-	C		C		UG/SHG	65	29250	9.75	3 yrs				
		Arecanut	-	-	C	P			UG/SHG	50	60000	5.70	4 yrs				
Total									165	94250	17.25						

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														
Reducti on in run off (cu.m)	Production (quintal)		Income (Rs.)		Mandays generated					No. of beneficiaries				
	Pre-project	Post project	Pre-project	Post project	SC	ST	Others	Women	Total	SC	ST	Others	Women	Total
NA	0	-			-	756		324	1080		75		32	107
NA	0	195	0	2925000	-	4095		1755	5850		409		175	584
NA	450	900	810000	1620000	-	2394		1026	3420		239		102	341
Total	450	1095	810000	4545000	-	7245		3105	10350		723		309	1032

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)	Estimated cost (Rs. in lakh)	Expected month & year of completion (mm/yyyy)	Achievement	
			(i) Private	(ii) Community	(iii) Others (landless)				Expendi-ture incurred (Rs. in lakh)	Actual month & year of completion (mm/yyyy)
West Garo Hills	WGH- IWMP-III	Kitchen garden	P			Individual	7.50	4 years		
		Piggery		C		SHG	1.20	4 years		
		Poultry		C		SHG	0.70	4 years		
		Supply of fingerlings	P			Individual	0.25	4 years		
		Total					9.65			

(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	Women	Total
-	15000-20000		3150		1350	4500		315		135	450
-	20000-25000				720	720				72	72
-	20000-25000				420	420				42	42
-	15000-20000				-	-		5			5
Total			3150		2490	5640		320		249	569

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	
West Garo Hills	W.G.H IWMP III	Dingnapara	Waste land	Improvement of degraded forest	5 Ha	0.165	109	0.008	-	-	-	-	-	-	-
		Chibonggagre	Streams	C.C.Check Dam cum irrigation Dam	86 Ha	0.30	40	0.015	-	-	-	-	-	-	-
			Agri-land	1. Stone masonry Protection Wall 2. Earthen irrigation Channel. 3. Earthen embankment.	103 Ha	0.385	50	0.19	-	-	-	-	-	-	-
			Spring	Spring chamber	-	0.30	90	0.015	-	-	-	-	-	-	-
			Water Conservation	Water harvesting farm pond	122 Ha	0.60	109	0.03	-	-	-	-	-	-	-

CHAPTER V

PROJECT PHASING & BUDGETING

CHAPTER V
PROJECT PHASING & BUDGETING
ACTION PLAN OF CHIMESENG WATERSHED UNDER IWMP TERRITORIAL DIVISION: TURA

Name of District :- West Garo Hills

No. of Villages: 2 nos

Name of C&RD Block:- Selsella

Project Area : 500

Ha

Sl. No	Activities	Ist Year(6%)		IInd Year(14%)		IIIrd Year(50%)		IV Year(25%)		V Year(5%)		Total(in lakhs)	
		Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
		3	4	5	6	7	8	9	10	11	12	13	14
1	MANAGEMENT COST:												
A	Administrative Cost:-10%	-		2%		5%		3%				10%	
i	Honourarium of WDT Members @ Rs.8000/- month-1 no.				0.96		0.96		0.96				2.88
ii	Honourarium of Watershed Committee Chairman @500/ month				0.01		0.06		0.02				0.09
iii	Honourarium of WCM @ Rs. 200/Members/month for 9 nos.				0.036		0.216		0.072				0.324
iv	Honourarium of Charter Accountant				0.15		0.15		0.15				0.45
v	TA/DA/ of Field Asst. @ 5000/- month				0.05		0.6		0.2				0.85
vi	Hiring charges of office building @ 1000/ month				0.02		0.12		0.12				0.26
vii	Hiring charges of vehicle @ 5000/ month				0.1		0.6		0.2				0.90
viii	Office expenses				0.174		1.044		0.528				1.746
	TOTAL OF A:	-	0.00		1.50		3.75		2.25				7.50
	PREPARATORY PHASE: 4%												
B	Entry Point Activities:	4%										4%	
i	Construction of Spring Chamber @Rs60,000/- each	5 Nos.	3.00									4 Nos.	3.00
	TOTAL OF B:		3.00		0		0		0		0		3.00

C	Training: - 5%	1%		2%		1%		1%			5%	
i	Awareness Campaign & Capacity building of farmer	1 nos	0.2	1 nos	0.20	1 nos	0.20	1 nos	0.20		4 nos	0.80
ii	Exposure visits - Off Campus			1 nos	0.30			1 nos	0.35		2 nos	0.65
iii	Capacity building of SHG's/UG's.	1 nos	0.2	3 nos	0.60	1 nos	0.20	1 nos	0.20		6 nos	1.20
iv	Capacity building of WC Members.	1 nos	0.35	1 nos	0.20	1 nos	0.35				3 nos	0.90
v	Capacity building of WDT/WV			1 nos	0.20						1 nos	0.20
	Total of C:	3 nos	0.75	7 nos	1.50	3 nos	0.75	3	0.75			3.75
D	Detailed Project Report: 1%	1%									1%	
i	Cost of Resources Inventories works		0.25									0.25
ii	Cost of PRA Exercises		0.1									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 & Evaluation: 2%	-		0.50%		1%		0.50%			2%	
i	Monitoring			0.20%	0.15	0.50%	0.375	0.30%	0.225			0.75
ii	Evaluation			0.30%	0.225	0.50%	0.375	0.20%	0.15			0.75
	Total of E:				0.375		0.75		0.375			1.50
	TOTAL OF I (A - E)		4.50		3.375		5.25		3.375	0.00		16.50
II	PROJECT COST WATERSHED WORKS PHASE: 50%			7.50%		35%		7.50%			50%	
A	Arable Land Treatment:											
i	Wet terrace@15000/ ha -14 Ha			7.34	1.101	10	1.500	2.66	0.399		20	3.00
ii	Rubber plantation -80 Ha											
	(a) Pre-works @Rs.6000/ ha				0	65	3.90		0.00		65	3.900
	(b) 1st yr. planting @Rs.9000/ha				0		5.85		0			5.850
iii	Arecanut plantation - 50 Ha											
	(a) Pre-works @Rs.4200/ ha				0	40	1.68	10	0.42		50	2.100
	(b) 1st yr. planting @Rs.7200/ha				0		2.88		0.72			3.60
	TOTAL OF - A				1.101		15.81		1.54			18.450

B	Non-Arable Land treatment:												
i	<i>Improvement of degraded forest@3600/ ha- 40 Ha</i>			9	0.324		0	41	1.476			50	1.80
	Total of B:				0.324		0		1.476				1.8
C	Drainage Line Treatment:												
i	<i>C.C.Check-Cum-Irrigation dam - 86 Ha</i>			2	3.00	2	2.00		0.00			4	5.00
ii	<i>Stone masonry protection wall @50,000/each - 39 ha</i>				0.00	1	0.50	1	0.50			2	1.00
iii	<i>Dug-out pond @40,000/-each -20 ha</i>			3	1.20	3	1.20		0			6	2.40
	<i>Water harvesting farm pond @200,000/- each -84 ha</i>				0.00	2	4.00	1	2.00			3	6.00
v	<i>Earthen Embankment @Rs.700/- per rmt- 40 Ha</i>				0.00	350	2.45		0.00			350	2.45
vi	<i>Earthen irrigation channel @Rs. 50 /- Rm. -24 ha</i>				0.000	580	0.29	220	0.11			800	0.40
	TOTAL-C				4.20		10.4400		2.61				17.25
	TOTAL OF A+B+C				5.625		26.2500		5.625				37.50
D	Livelihood Activities for landless person: 10%				1%		3%		6%				10%
i	<i>Kitchen garden @15000/ unit</i>			5	0.75	15	2.25	30	4.5			50	7.500
	Total of D:				0.75		2.25		4.5				7.50
E	Production system and Micro Enterprises (SHG's) - 13%				1%		5%		7%				13%
i	<i>Piggery unit @Rs.40,000 /- per unit</i>			1	0.4	1	0.4	1	0.4			3	1.20
iii	<i>Poultry unit @Rs.35,000 /- per unit</i>			1	0.35	1	0.35		0			2	0.70
iv	<i>Dugout pond @Rs. 40000/- each</i>				0	7	2.8	12	4.8			19	7.60
v	<i>Supply of fingerlings @Rs.1000/- per unit</i>				0	20	0.2	5	0.05			25	0.25
	Total of E:				0.75		3.75		5.25				9.75

F	Consolidation & Exit Phase:									5%		5%	
i	<i>Repairing maintainance of CPR's</i>									1.75		1.75	
ii	<i>Improveing the sustainability of various intervention</i>									1.00		1.00	
iii	<i>Documentation of successful experience and preparation of complation report</i>									1.00		1.00	
	Total of F:									3.75		3.75	
	Total of II (A+B+C+D+E+F)		0		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

VILLAGE WISE ACTION PLAN OF CHIMESENG MICROWATERSHED UNDER WGH-IWMP-III

Name of District: West Garo Hills
Name of C&RD Block: Selsella

Name of villages: a) Dingnapara b) Chibonggagre
Project area: 500 Ha

sl no	Activities	Dingnapara		Chibonggagre		Total	
		Phy	Fin	Phy	Fin	Phy	Fin
1	2	3	4	5	6	7	8
B	Entry Point Activities:						
i	<i>Construction of Spring Chamber @Rs60,000/- each</i>	2 nos	1.80	2 nos	1.2		3.00
II	PROJECT COST WATERSHED WORKS PHASE: 50%						
A	Arable Land Treatment:						
i	<i>Wet terrace@15000/ ha -14 Ha</i>	10 Ha	1.5	7 Ha	1.5	10 Ha	3.00
ii	<i>Rubber plantation -78 Ha</i>						
	<i>(a) Pre-works @Rs.6000/ ha</i>	32.5 Ha	1.95	32.5 Ha	1.95	78 Ha	3.90
	<i>(b) 1st yr. planting @Rs.9000/ha</i>		2.925		2.925		5.85
iii	<i>Arecanut plantation - 50 Ha</i>						
	<i>(a) Pre-works @Rs.4200/ ha</i>	25 Ha	1.05	25 Ha	1.05	50 Ha	2.10
	<i>(b) 1st yr. planting @Rs.7200/ha</i>		1.80		1.8		3.60
B	Non-Arable Land treatment:						
i	<i>Improvement of degraded forest@3600/ ha- 50 Ha</i>	25 Ha	0.9	25 Ha	0.9	50 Ha	1.80

C	Drainage Line Treatment:						
i	<i>C.C.Check-Cum-Irrigation dam - 86 Ha</i>	2 nos	2.5	2 nos	2.5	4 nos	5.00
ii	<i>Stone masonry protection wall @50,000/each - 39 ha</i>	1 nos	0.5	1 nos	0.50	2 nos	1.00
iii	<i>Dug-out pond @40,000/-each -20 ha</i>	3 nos	1.2	3 nos	1.20	4 nos	2.40
	<i>Water harvesting farm pond @100,000/- each -84 ha</i>	2 nos	4	1 nos	2.00	3 nos	6.00
v	<i>Earthen Embankment @Rs.700/- per rmt- 40 Ha</i>	200 rmt	1.4	150 rmt	1.05	350 rmt	2.45
vi	<i>Earthern irrigation channel @Rs. 50 /- Rm. -24 ha</i>	400 rmt	0.2	400 rmt	0.2	800 rmt	0.40
D	Livelihood Activities for landless person: 10%						
i	<i>Kitchen garden @15000/ unit</i>	25 unit	3.75	25 unit	3.75	50 unit	7.50
E	Production system and Micro Enterprises (SHG's) - 13%						
i	<i>Piggery unit @Rs.40,000 /- per unit</i>	2 unit	0.8	1 unit	0.4	3 unit	1.20
iii	<i>Poultry unit @Rs.35,000 /- per unit</i>	1 unit	0.35	1 unit	0.35	2 unit	0.70
iv	<i>Dugout pond @Rs. 40000/- each</i>	8 nos	3.2	11 nos	4.40	4 nos	7.60
v	<i>Supply of fingerlings @Rs.1000/- per unit</i>	10 unit	0.1	15 unit	0.15	25 unit	0.25
	GRAND TOTAL		29.925		27.825		57.75

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

1	2	3	4	5	6		7	8	9	10				11				
					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)	
S L N o	Name of State	Name of Districts	Names of Projects	Year of sanction	From	To								Cultivated rainfed area	Cultivated irrigated area	Uncultivated wasteland	Agri. Land	Forest land
										Temporary fallow	Permanent							
1	Meghalaya	West Garo Hills	W.G.H IWMP-III	2009-10	2009	2014	500	75.00	Chimeseng	323.74	46.6	69.18	60.48	140	45.2	314.8		500

Fund provision for the IWMP projects from all sources:

1	2	3		4										5
District	Name of Projects	IWMP Fund		Funds from other sources in addition to IWMP funds										Total
				Convergence funds		PPP		Community		Institutional finance		Others (Pl. specify)		
		Central Share	State Share	Name of Scheme	Amount (Lakhs)	Name of private sector	Financial contribution	Name	Financial contribution	Name	Financial contribution	Name	Financial contribution	
Meghalaya	W.G.H IWMP-III	67.5	7.5	NREGS	27.92	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	102.92

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-III	Tura Axis Bank		Savings	Chairman W.C Secretary W.C Project Leader/W DT	Chimeseng	AXIS Bank Hawakhana, Tura.	910020000 8759533	Savings	Chairman W.C Secretary W.C Project Leader/WDT

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				
West Garo Hills	WGH-IWMP-III	nil	nil			nil	nil	nil	nil	nil	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				
								Performance				
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	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	Umran	Director	Don-Bosco	Agri-Horti, Animal Husbandry, Entrepreneurship	NA					
4		ICAR	Umiam	Director	Central Govt.	Do	NA					
5		KVK	Tura	Director	Central Govt	Agriculture						
		MRDS	Shillong	Director	State Govt	Rural development						

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

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

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

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

(i) Technical experts in fields required by IWMP

(ii) Past experiences

- (iii) Annual Turnover
- (iv) Receives funds either from the Central or State Government
- (v) Publications
- (vi) Not blacklisted by any Govt. organizations
- (vii) Audited accounts
- (viii) Organizational structure

Table 6.2: Capacity Building activities for the year 2010 – 11 as on 31/03/2010 (dd/mm/yyyy)*

1	2	3	4	5	6		7	
Project 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	10	10	NIL	3.75	NIL	NIL	NIL
WDTs	4	4	4	NIL				
Ugs	100	-	40	NIL				
SHGs	60	20	50	NIL				
WCs	10	10	10	NIL				
GPs	NIL	-	NIL	NIL				
Community	490	60	120	NIL				
Others Pl. specify)								
TOTAL	674	104	234	0	3.75	0	0	0

Table 6.3: Information, Education & Communication (IEC) activities for the year 10-11 as on 31/03/10 (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	0.80		a) Better understanding of Project Concept. b) Preview of Project achievement.
2.	Publish of Pamphlets/booklets	S&WC (T) Division	0.10		
3.	Exposure Visits	S&WC (T) Division	0.65		
4.	Capacity Building	S&WC (T) Division	2.30		

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	Women	Total	SC	ST	Others	Women	Total
1.	Dingnapara Chibonggagre	-	24500	-	11640	36140	-	1183	-	618	1801	-	-	-	-	-

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
West Garo Hills	WGH-IWMP-III	Dingnapara Chibonggagre		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 form column no. 11, average income from occupation during migration, for the entire country may be given at the end of the Table.

Table 7.3 Economic benefits accrued to women:

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)	
11640	11.64	60	1.2	50	1.90	14.74

* 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	
West Garo Hills	W.G.H IWMP-III	Dingnapara Chibonggagre	Reserved forest	FW/MFP/T	unspecified		109		109	NIL
			Spring Chamber	Wd	Unspecified		50		50	NIL
			Check dam	Wi	Unspecified		80		80	NIL
			Water conservation	Wi	unspecified		60		60	NIL
			Total				299		299	

* 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
West Garo Hills	W.G.H IWMP-III	Open Well	1.80	1.60	1.55	0.25	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	
West Garo Hills	WGH 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 ^s	through water conserving agronomic practices [#]	Any other (pl specify)	Total
W.G.H	WGH IWMP-III	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 Names of the Districts	2 Name of Projects	3 Name of crops	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.	
West Garo Hills	WGH-IWMP-III	Paddy	46.6	142.1	12	12	559.2	1705.2	136.6	62.1	15	15	2049	931.5	197	11.7	15	15	2955	175.5	
		Maize		33		24		792		33		24	0	792		33		24	0	792	
		Vegetables		5		30		150		6	5	36	30	216	150	6	5	36	30	216	150
Total			180.1	12	66	559.2	2647.2	142.6	100.1	51	69	2265	1873.5	203	49.7	51	69	3171	1118		

* 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					
			Pre-project						Mid-term						Post-project					
			Area		Average Yield		Total Production		Area		Average Yield per ha		Total production		Area		Average Yield per ha		Total production (qtl)	
			(ha)		(Qtl) per ha.		(Qtl)		(ha)		(qtl)		(qtl)		(ha)		(qtl)			
Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	
West Garo Hills	WGH-IWMP-III	Paddy	46.6	0	12	0	559.2	0	136.6	0	15	0	2049	0	197	0	15	0	2955	0
		Vegetables	0	0		0	0	0	6	0	36	0	216	0	6	0	36	0	216	0
Total			46.6	0	12	0	559.2	0	142.6	0	51	0	2265	0	203	0	51	0	3171	0

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

Irri. – Irrigated Rf – Rainfed

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

1	2	3	4	5	6						7						8							
					Pre-project						Mid-term						Post-project							
					Area		Average Yield		Total Production		Area		Average Yield per ha		Total Production		Area		Average Yield per ha		Total Production			
					(ha)		(Qtl) per ha.		(Qtl)		(ha)		(Qtl)		(Qtl)		(ha)		(Qtl)		(Qtl)			
Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.			
	Meghalaya	West Garo Hills	WGH IWMP III		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

* 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-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
W.G.H	W.G.H IWMP-III	5 yrs	-	-	36.50 ha	115 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
W.G.H	W.G.H IWMP-III	5 yrs	NA	NA	293.80	50 ha	NILL	-

* 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-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	
West Garo Hills	W.G.H IWMP-III	Cattle	152	180 litre/day	₹.0.036 /day	160	240 l/day	₹.0.048 /day	170	306 l/day	₹0.06 /day	
		Piggery	60	16.80 qtl/annum	₹.2.00 lac	100	24 qtl/annum	₹.2.88 lac	140	33.6 qtl/annum	₹4.00 lac	
		Poultry	600	3.00 qtl/annum	₹.0.36 lac	800	5.76 qtl/annum	₹.0.69 lac	1000	7.2 qtl/annum	₹0.86 lac	

* 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 District	2 Project	3 Name of activity	4 Fund required for the activity (Rs.)	5 Sources of funding (Rs.)				6 Actual Expenditure incurred on activity (Rs.)	7 No. of beneficiaries to be trained					8 No. of beneficiaries taking up activity				
				Project Fund	Beneficiary	Others (pl. specify)	Total		SC	ST	Others	Women	Total	SC	ST	Others	Women	Total
West Garo Hills	WGH IWMP III	Kitchen garden	7.50	7.50	-	-	7.50	-	-	30	-	20	50	-	-	-	-	-

(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 No. of persons employed indirectly in the activity		10 Annual increase in income due to activity (Rs.)	11 Impact of livelihoods programme				12 Any other information (pl. Specify)
Total	Grand Total (8+9)		Migration (No. of beneficiaries)		Development of backward-forward linkages		
			Pre-project	Post-project	Pre-project	Post-project	
-	-	-	NJL	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	Beneficiary	Others (pl. specify)	Total		SF	MF	LF	Total	SF	MF	LF	Total
West Garo Hills	WGH IWMP III	Wet Terrace	3.00	3.00	NIL	NIL	3.00	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		Dugout Pond	10.00	10.00	NIL	NIL	10.00	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		Arecanut Plantation	5.70	5.70	NIL	NIL	5.70	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		Rubber plantation	9.75	9.75	NIL	NIL	9.75	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 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

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.)	
West Garo Hills	WGH IWMP III	(A) Backward linkages	NIL	NIL	NIL	
		(i) Seed certification	NIL	NIL	NIL	
		(ii) Seed supply system	NIL	NIL	NIL	
		(iii) Fertilizer supply system	NIL	NIL	NIL	
		(iv) Pesticide supply system	NIL	NIL	NIL	
		(v) Credit institutions	NIL	3	3	
		(vi) Water supply	NIL	3	3	
		(vii) Extension services	NIL	NIL	NIL	
		(viii) Nurseries	NIL	NIL	NIL	
		(ix) Tools/machinery suppliers	NIL	NIL	NIL	
		(x) Price Support system	NIL	NIL	NIL	
		(xi) Labour	NIL	NIL	NIL	
		(xii) Any other (please specify)	NIL	NIL	NIL	
		(A) Forward linkages				
		(i) Harvesting/threshing machinery	NIL	NIL	NIL	
		(ii) Storage (including cold storage)	NIL	NIL	NIL	
		(iii) Road network	1	1	1	
		(iv) Transport facilities	NIL	NIL	NIL	
		(v) Markets / Mandis	NIL	NIL	NIL	
		(vi) Agro and other Industries	NIL	NIL	NIL	
		(vii) Milk and other collection centres	NIL	NIL	NIL	
		(viii) Labour	NIL	NIL	NIL	
(ix) Any other (please specify)	NIL	NIL	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	24% irrigated	70% irrigated		
		Change in cropping/ land use pattern	-	Single cropping	Double Cropping		
		Area under agricultural crop					
		i	Area under single crop	Ha	142.10	208.70	
		ii	Area under double crop	Ha	46.60	132.60	
		iii	Area under multiple crop	Ha	nil	nil	
			Net increase in crop production area		188.70	341.3	80% increase in cropping area
			Increase in area under vegetation		36.50	86.50	137% increase in vegetation cover
			Increase in area under horticulture		293.80	343.80	17% increase in area
			Increase in area under fuel & fodder		36.50	86.50	137% increase in vegetation cover
			Increase in milk production		180 litre/day	306 litre/day	
			No. of SHGs		1	5	
			Increase in no. of livelihoods	Activities	1.) Agriculture 2) Horticulture	1. Agriculture. 2. Horticulture. 3. vegetable Cultivation. 4. Piggery. 5. Poultry.	
			Increase in income	Rs.	30000-40000	50000-60000	
			Migration	Nos	nil	nil	
			No. of school going children				
			SHG Federations formed	Nos.	nil	1	
		Credit linkage with banks	Nos.	nil	1		
		Resource use agreements	Nos.	None	a.) NOC for development work. b.) Agreements		
		WDF collection & management		None	₹2.73 lac		
		Summary of lessons learnt			Nil		

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
West Garo Hills	WGH IWMP III	Chimeseng	As per work plan	58.50	82.99	58.50		1.41	

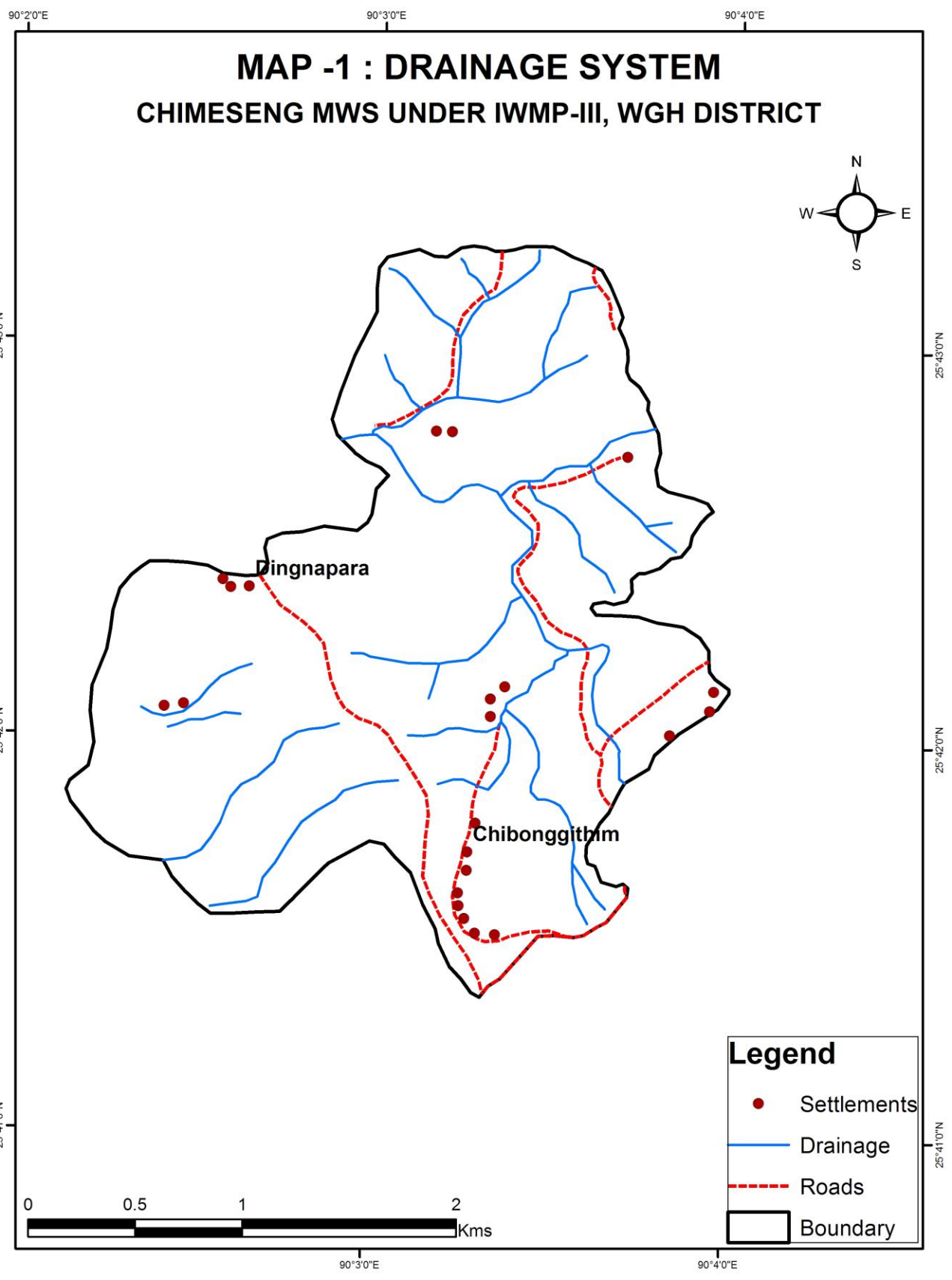
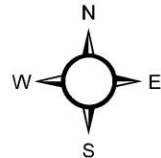
* from column no. 2, total no. of States implementing the programme, from column no. 3, total no. of Districts; from Column no. 4, no. of projects, from column no. 5, no. of WCs, from column no. 6, no. of structures/ activities, from column no. 7 to 10, category-wise# totals, may be mentioned at the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

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

ANNEXURE-I

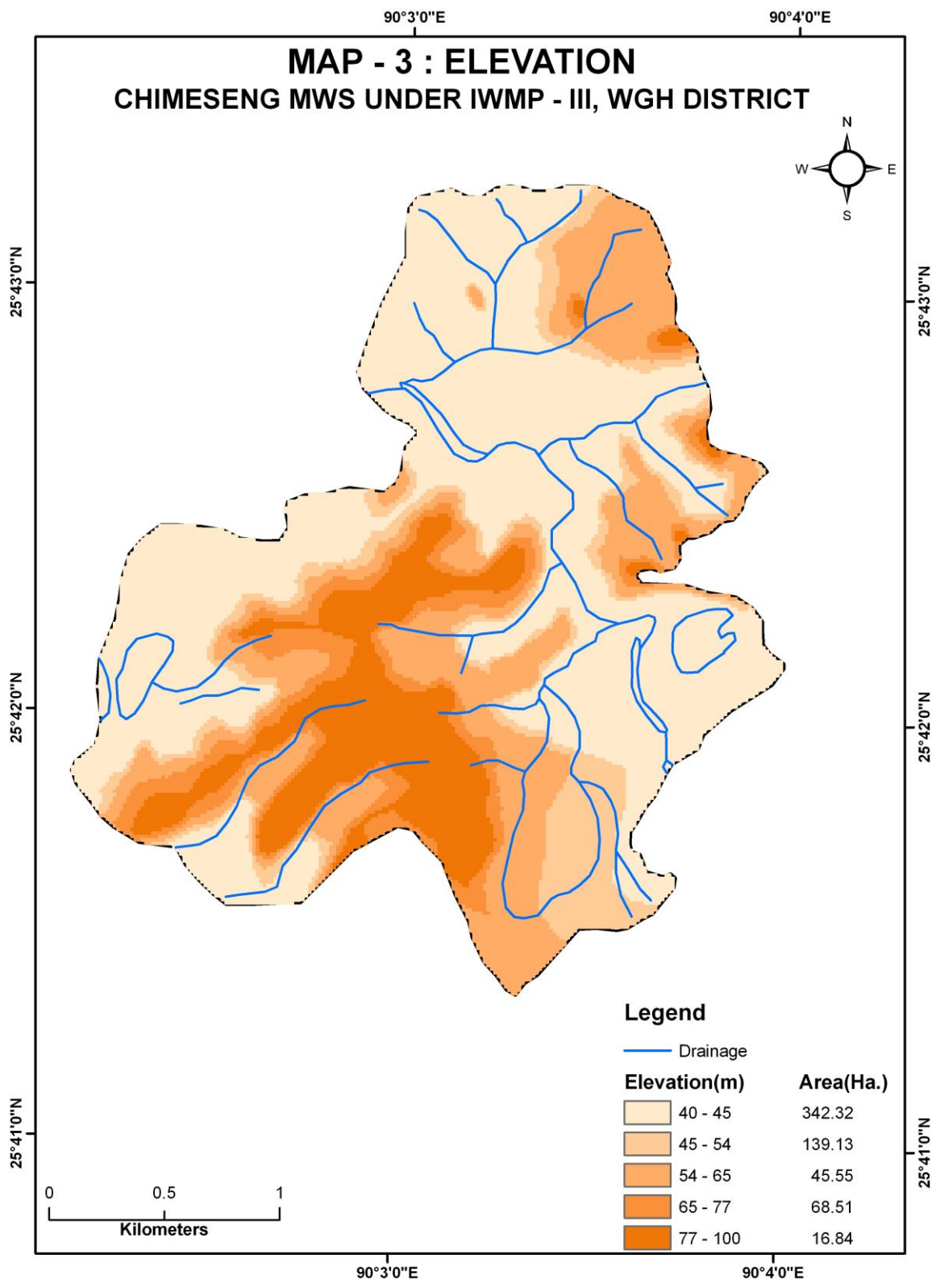
MAPS

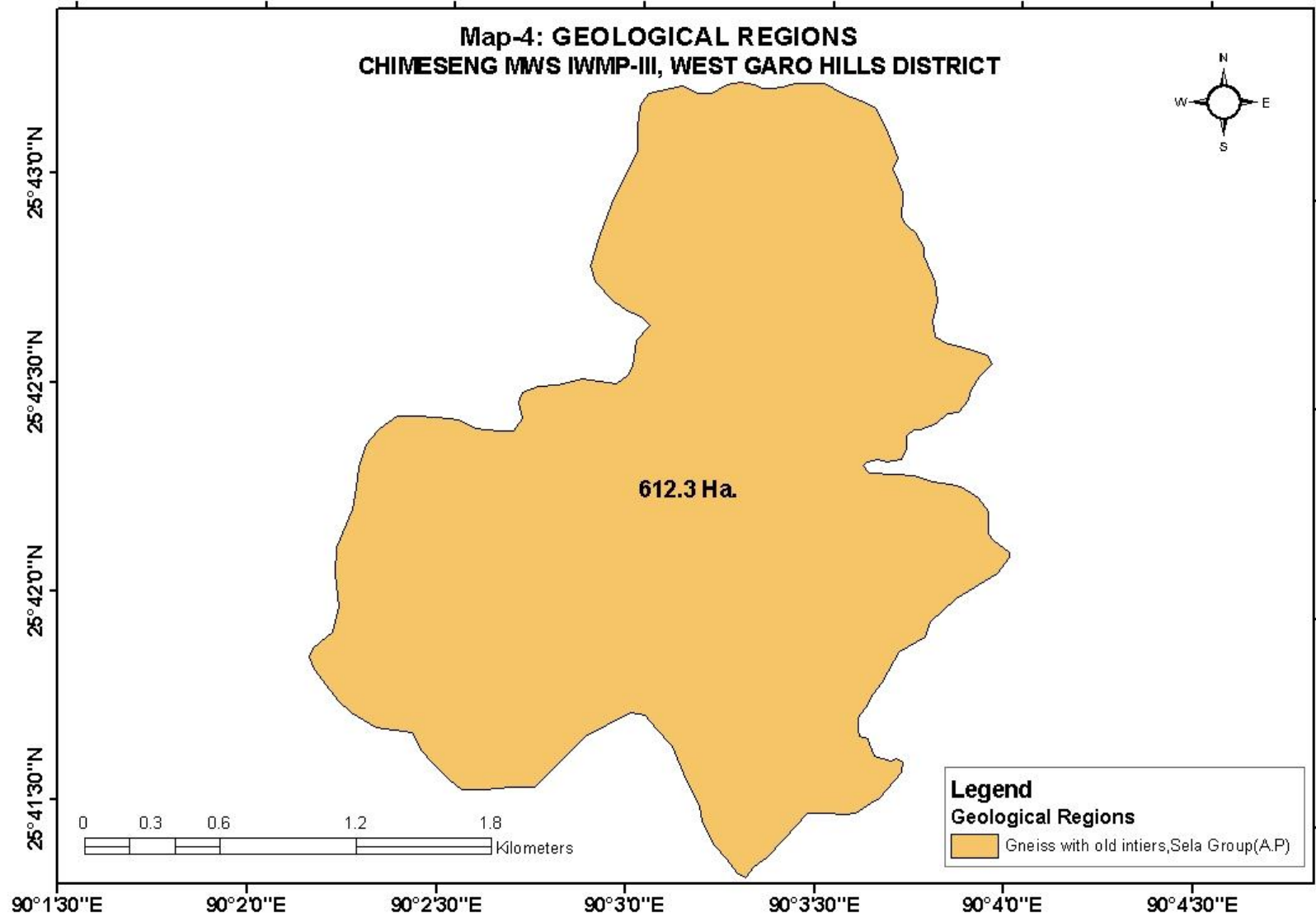
MAP -1 : DRAINAGE SYSTEM CHIMESENG MWS UNDER IWMP-III, WGH DISTRICT

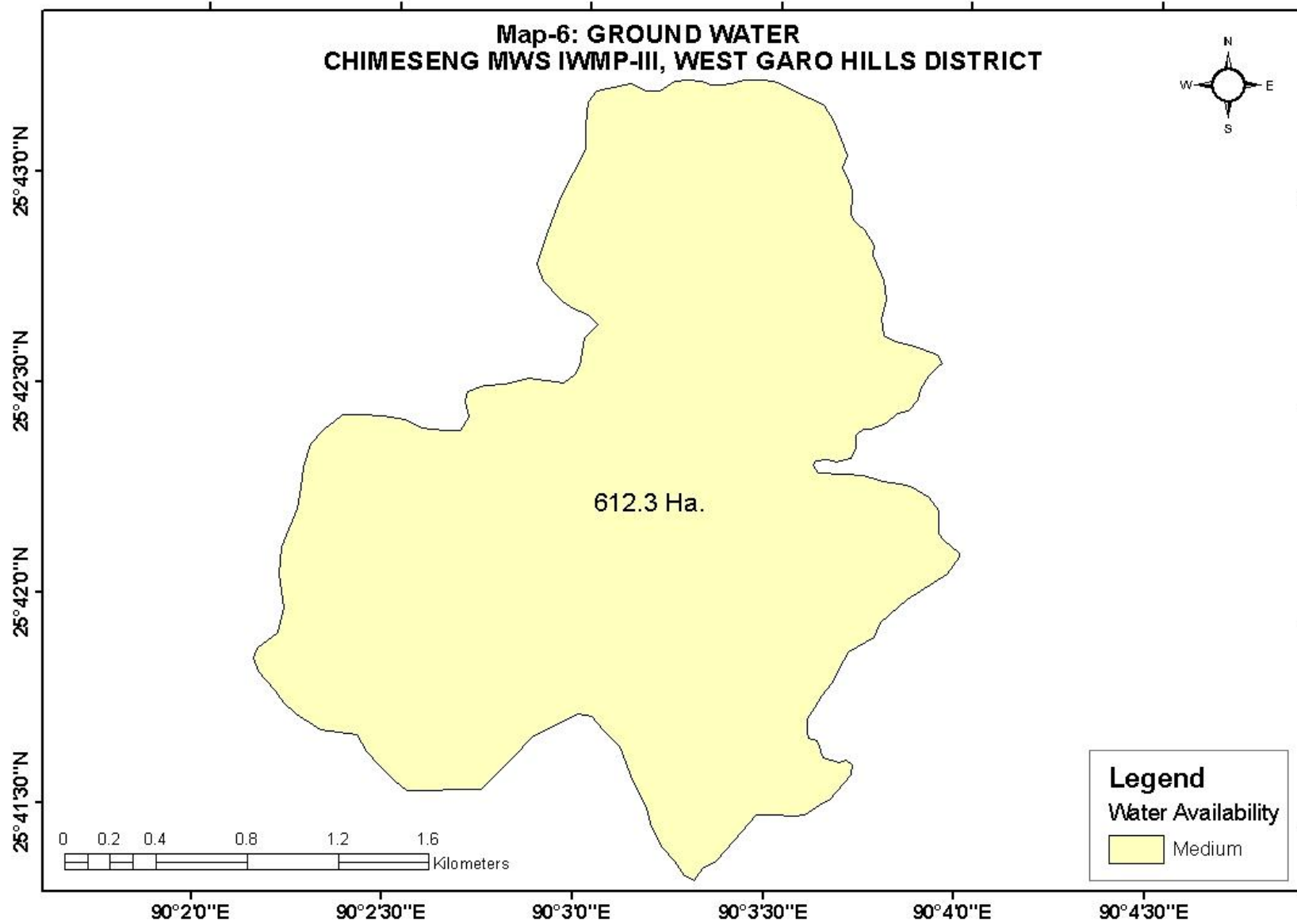


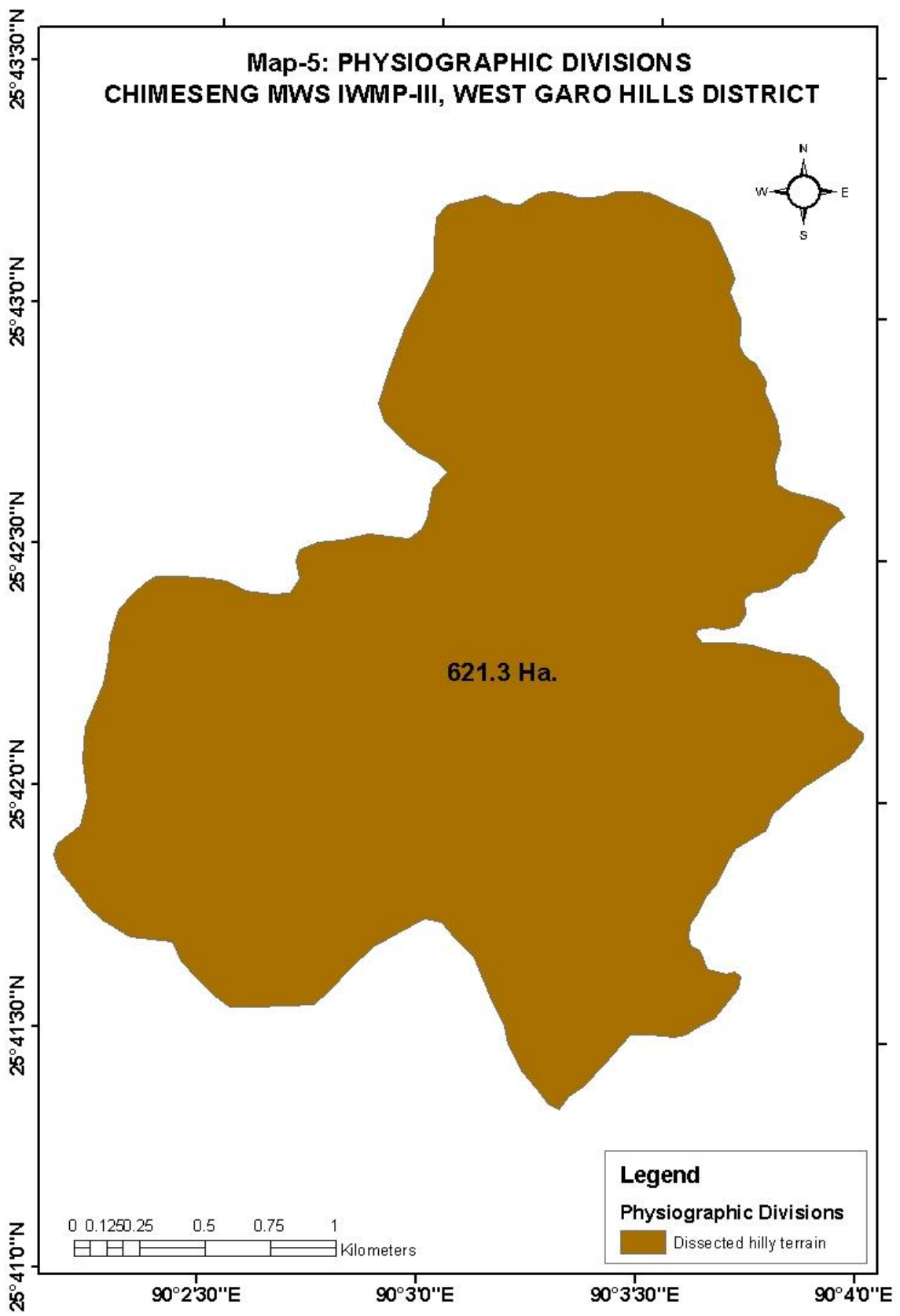
Legend

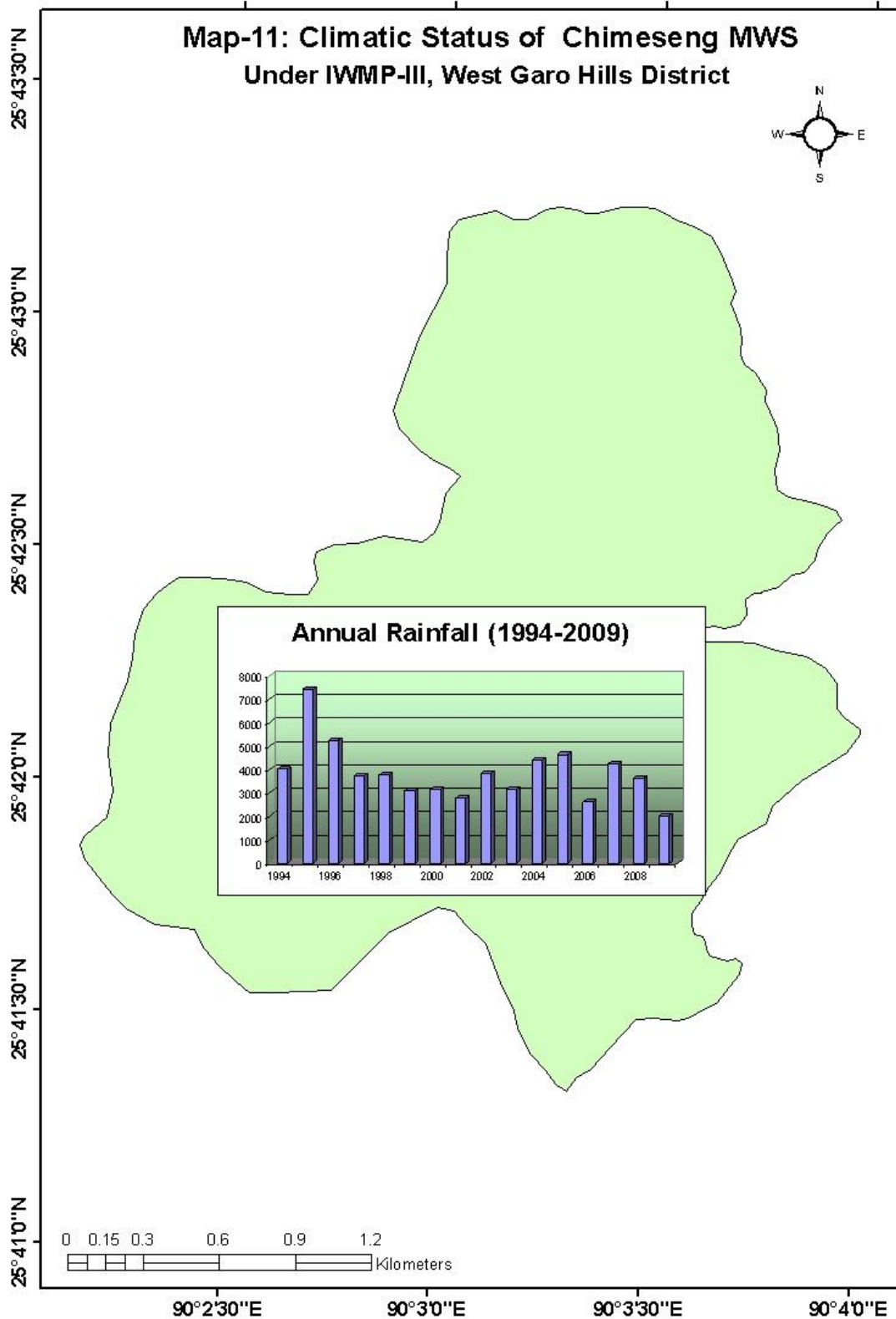
- Settlements
- Drainage
- - - Roads
- Boundary

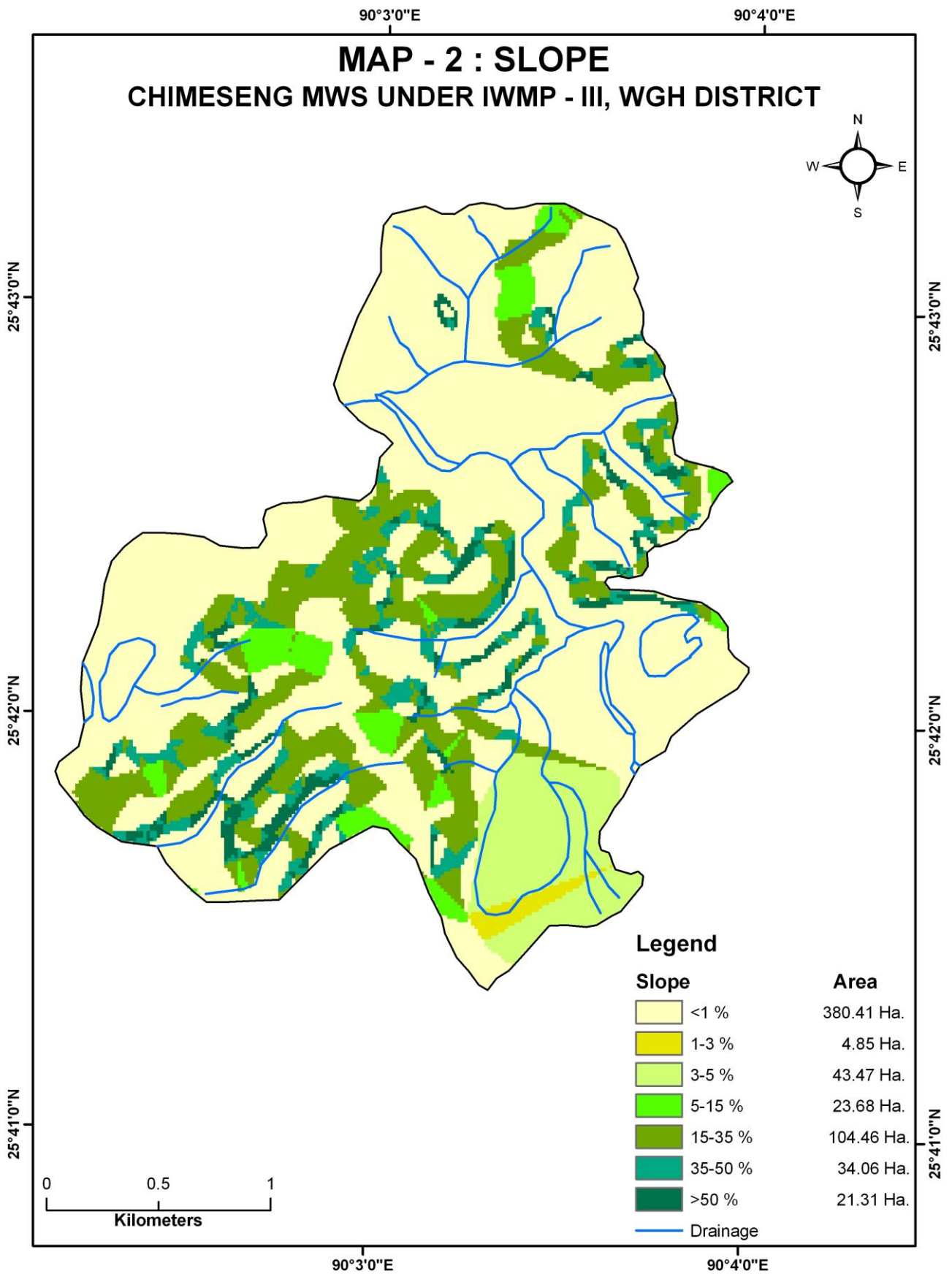




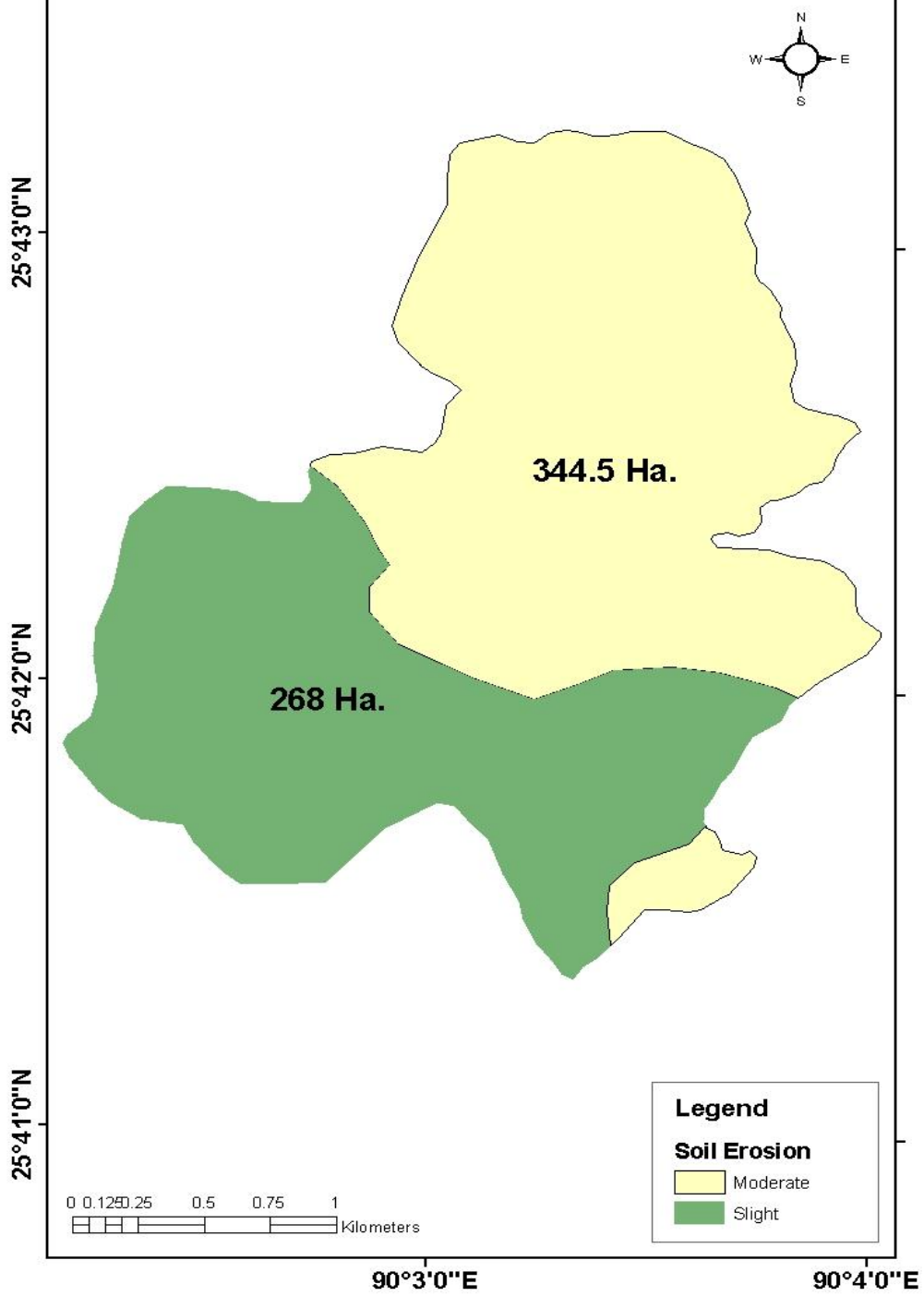


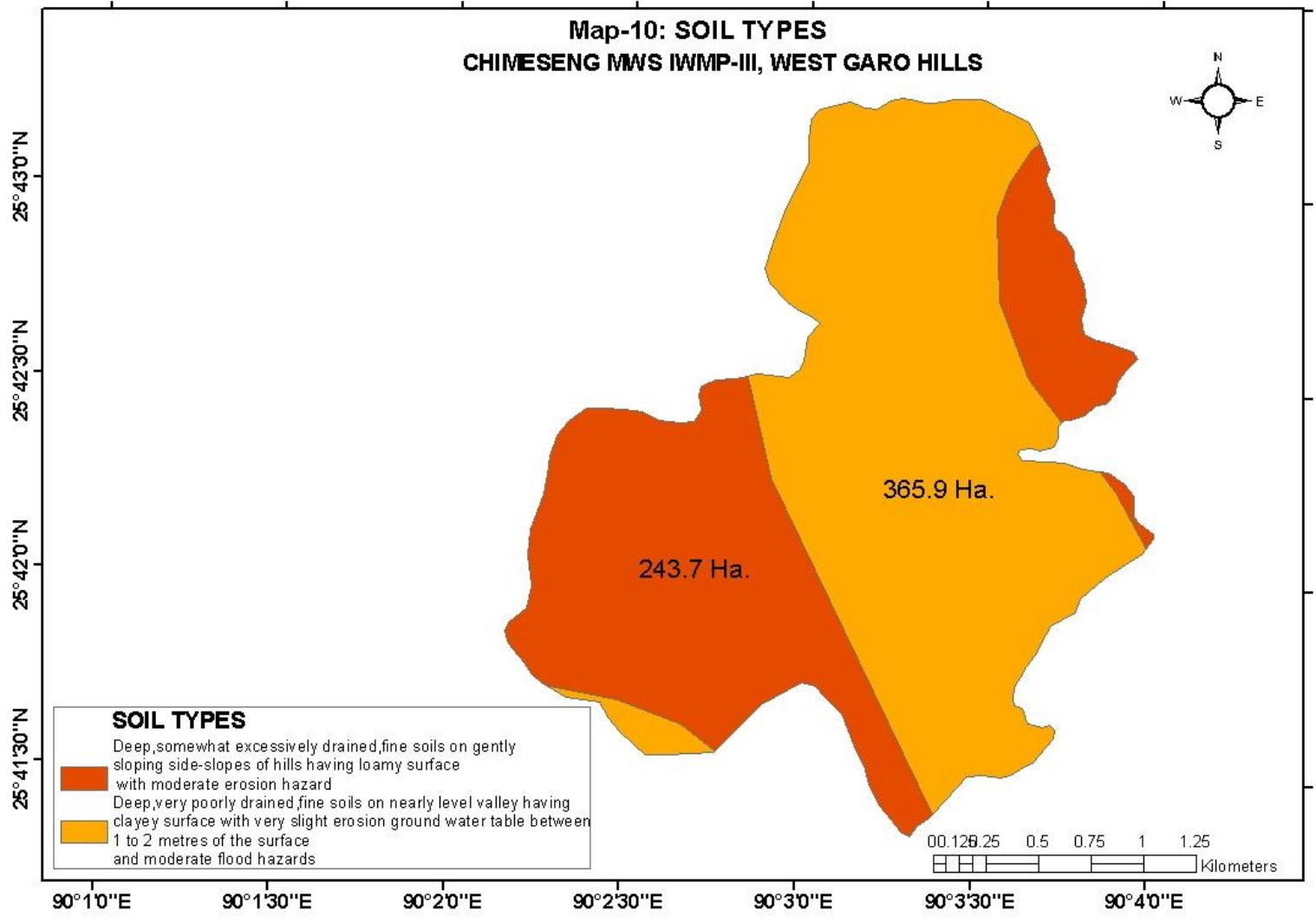




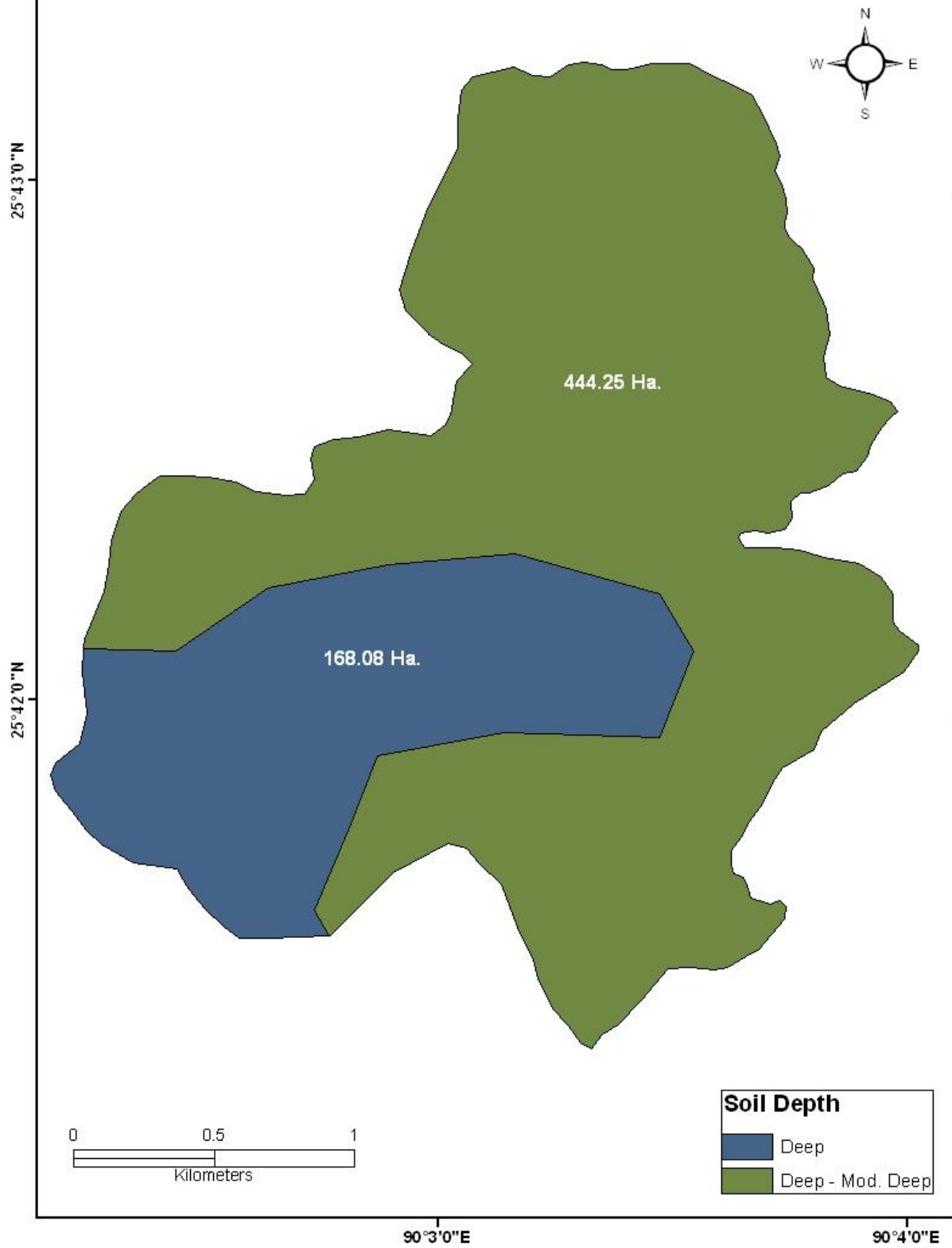


Map-7 : Soil Erosion
CHIMESENG MWS UNDER IWMP-II, WEST GARO HILLS DISTRICT

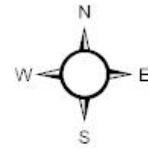




MAP- 9: SOIL DEPTH REGION CHIMESENG MWS UNDER IWMP-III, WGH DISTRICT

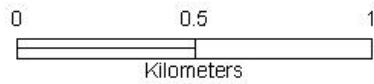
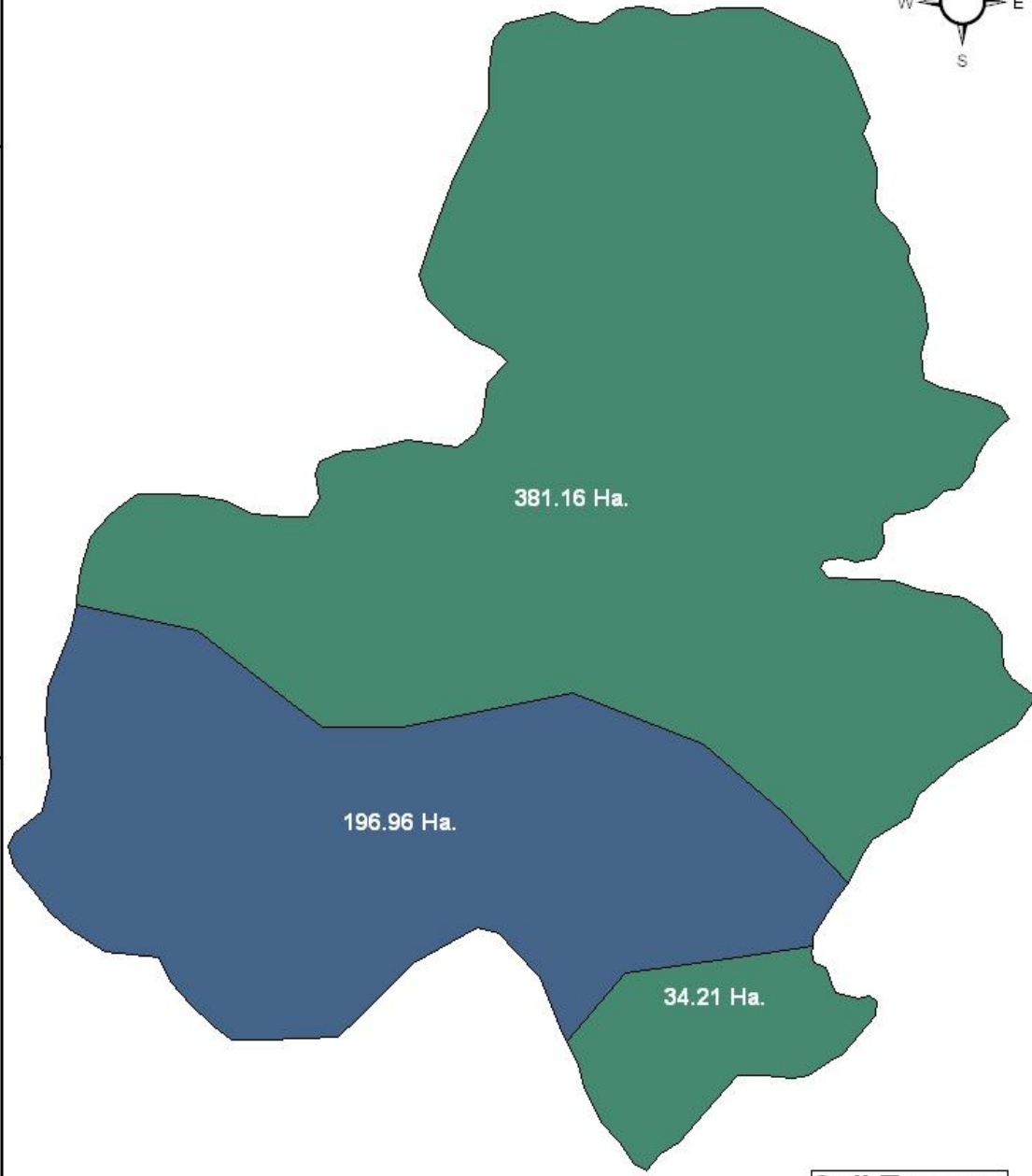




MAP- 8: TEXTURAL REGION CHIMCHENG MWS UNDER IWMP-III, WGH DISTRICT



25°43'0"N

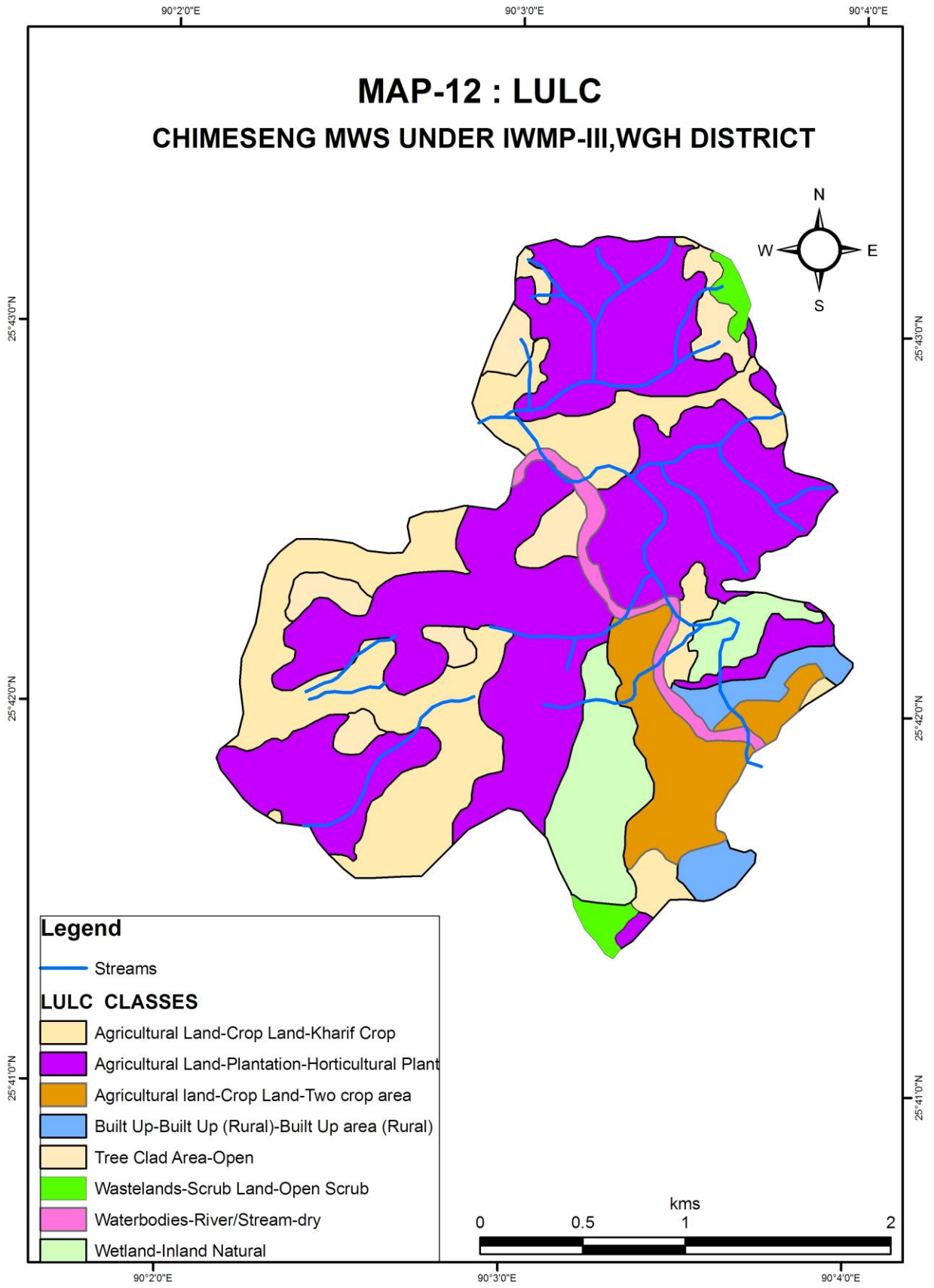
25°42'0"N

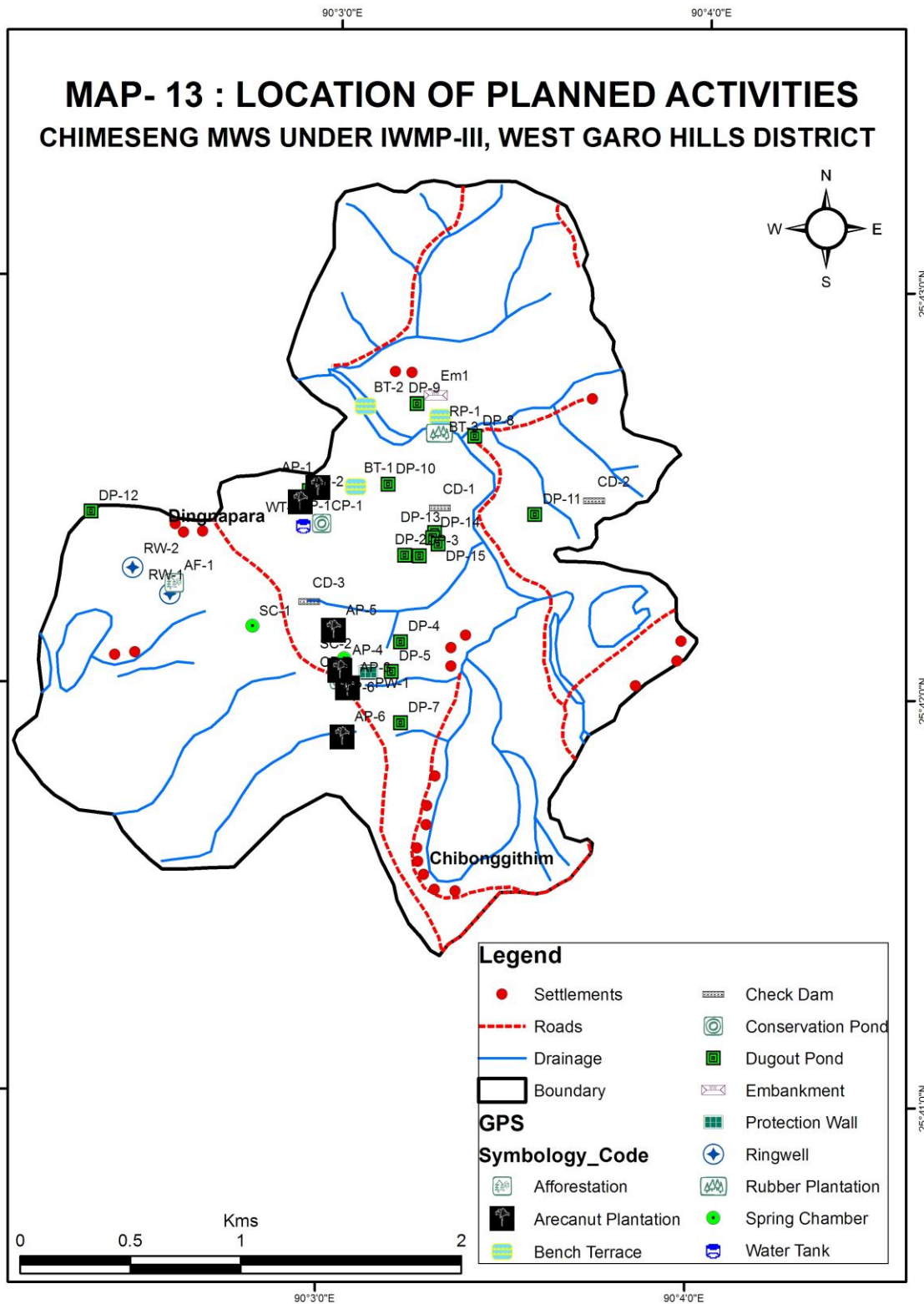


Soil Texture	
	Clayey
	Loamy Clayey

90°3'0"E

90°4'0"E





ANNEXURE II
Socio-Economic-Survey

SOCIO-ECONOMIC SURVEY OF CHIMESENG MICRO-WATERSHED (IWMP)

SL NO.	NAME OF THE VILLAGE	NO OF HOUSEHOLDS	MALE	FEMALE	TOTAL	LITERATE	ILLITERATE	TOTAL	Occupation	AGRICULTURE			HORTICULTURE (In Ha)	LIVESTOCK				INFRASTRUCTURE
										SETTLED (In Ha)	JHUM AREA (In Ha)	ABANDONED JHUM		CATTLE	POULTRY	PIGGERY	GOATERY	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
1	Dingnapara		100	112	212	159	53	212	farmers	85.70	-	-	182	70	250	20		1-LP School 1-anganwadi centre
2	Chibonggagre		104	120	224	174	50	224	farmers	103	-	-	111.8	82	350	40		1-LP School 1-anganwadi centre
	TOTAL		204	232	436	333	103	436		188.7			193.8	152	600	60		

ANNEXTURE-III

Cost Estimates

ESTIMATE FOR THE CONSTRUCTION OF STONE MASONRY PROTECTION WALL.

(Rates as per P.W.D S.O.R for Roads, Bridges and E & D Works 2009-2010).

1/134. Excavation for structures.
(I) Ordinary soil.
(A) Manual Means.
(i) Upto 3m depth.

$$1 \times 10.00 \times 1.35 \times \frac{1}{2} (1.10 + 0.60) = 11.48\text{m}^3$$
$$1 \times 10.00 \times \frac{1}{2} \times 1.35 \times 0.38 = 2.57\text{m}^3$$

$$= 14.05\text{m}^3$$

@ Rs. 47/- m³ Rs. 660.35

2/137. P.C.C 1:3:6 in foundation.....etc.

$$1 \times 10.00 \times 1.35 \times 0.10 = 1.35\text{m}^3$$

@ Rs. 3571/- m³ Rs. 4820.85

3/140(b). Stone masonry works in cement mortar 1:3 etc.

$$1 \times 10.00 \times \frac{0.60 + 1.10}{2} \times 1.75 = 14.88\text{m}^3$$
$$1 \times 10.00 \times \frac{1}{2} \times 1.10 \times 0.28 = 1.54\text{m}^3$$

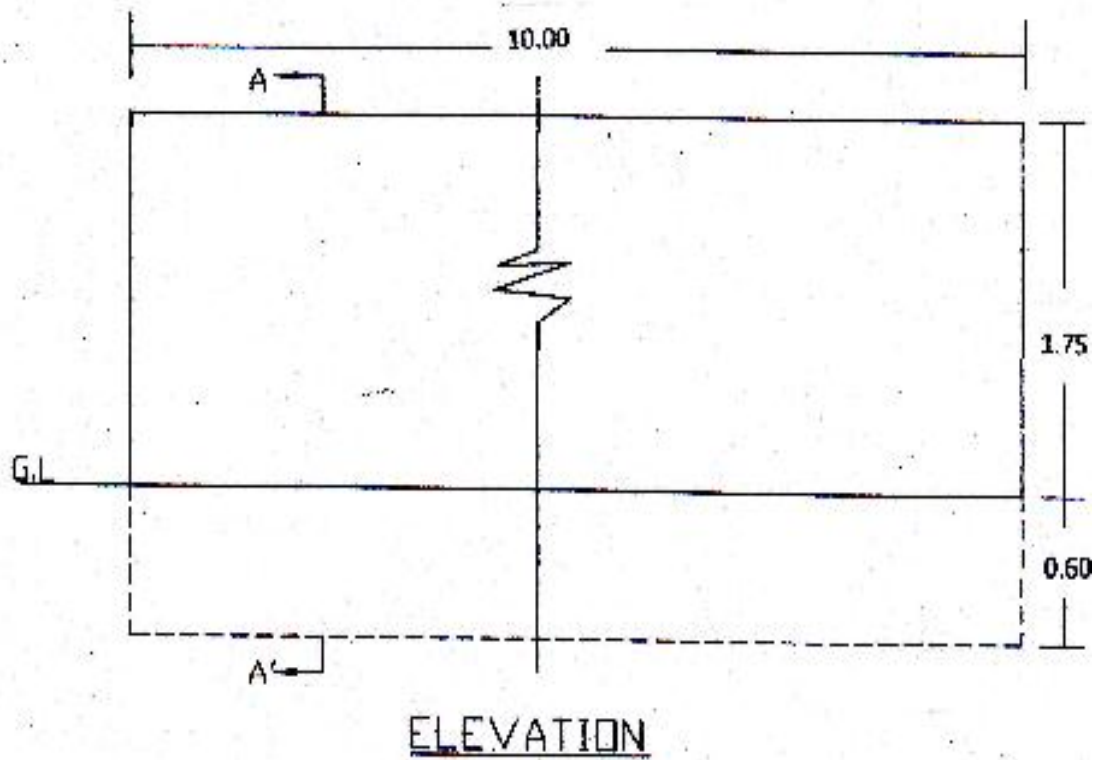
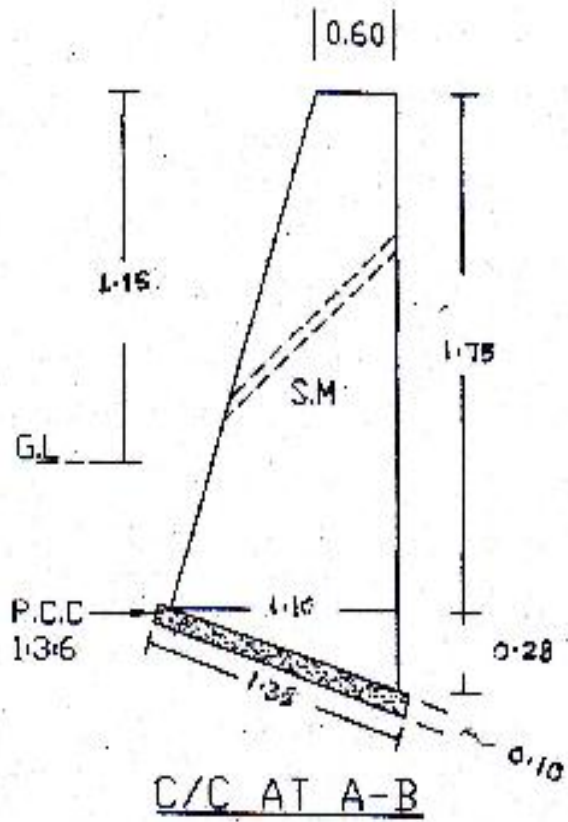
$$= 16.42\text{m}^3$$

@ Rs. 2714/- m³ Rs. 44563.88

GRAND TOTAL = Rs. 50045.08
Say, Rs. 50,000.00

(Rupees Fifty thousand) only.

STONE MASONRY PROTECTION WALL
Not to Scale



**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	<u>30.75</u>	m ²
						55.473	m ²
.@ Rs.41.00/sq.m						Rs. 2274.393	

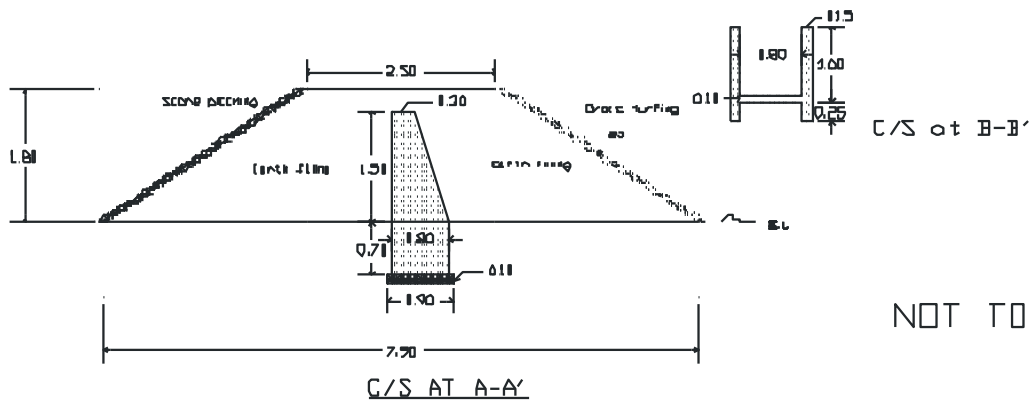
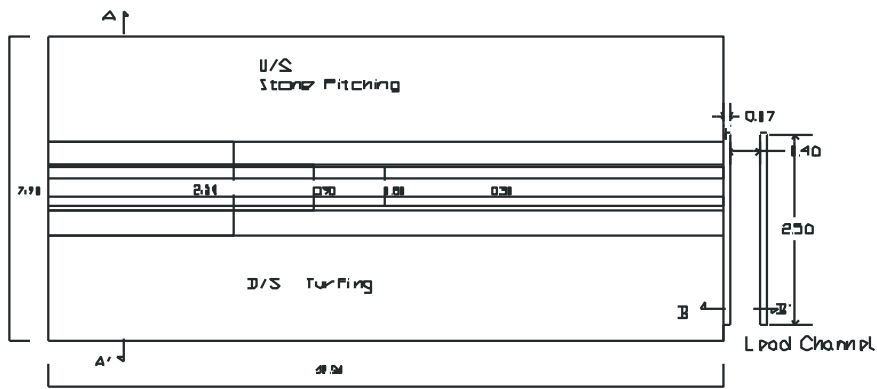
7/100 Providing and laying pitching on slopes laid over prepared filter media as per drawing and technical specification.

I. Stone/Boulder

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

(Rupees One lakhs)only.

PLAN FOR CC CORE WALL WITH EARTHEN DAM



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 deteriorious matters, dressing of sides and bottom and back filling with approved materials.)

(I) Ordinary soil.

(A) Manual means.

(i) Upto 3 m, depth.

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

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

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

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

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

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

$$\text{-----}$$

$$= 27.56\text{m}^3$$

@ Rs. 34/- m³

Rs. 937.04

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

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

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

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

$$\text{-----}$$

$$= 6.87\text{m}^3$$

@ Rs. 852/- m³

Rs. 5853.24

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

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

@ 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 :

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

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

$$2 \times 1.00 \times 0.50 \times 0.50 = 0.50\text{m}^3$$

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

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

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

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

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

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

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

$$= 24.68\text{m}^3$$

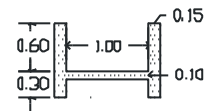
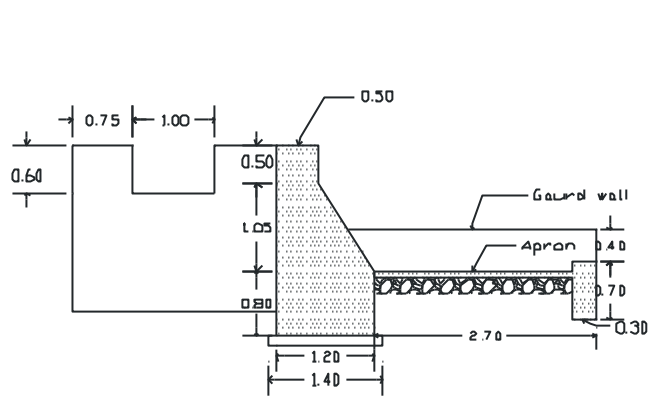
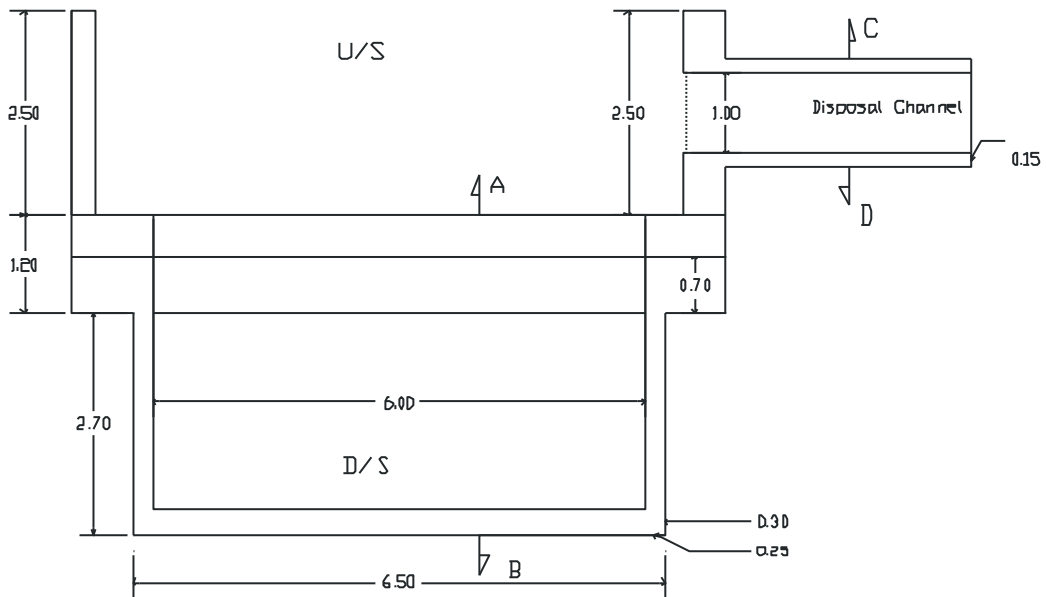
@ Rs. 3630/- m³ Rs. 89588.40

GRAND TOTAL = Rs. 99998.52

Say, Rs. 1,00,000.00

(Rupees One lakh) only.

PLAN FOR CC IRRIGATION DAM WITH DISPOSAL CHANNEL



C/S AT C-D

NOT TO SCALE

C/S AT A-B

**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:

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

$$\underline{\hspace{1.5cm}} = 6.60 \text{ m}^3$$

@ 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

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

$$\underline{\hspace{1.5cm}} = 12.95 \text{ m}^3$$

@ 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:

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

For Reservoir :

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

For Pipe Pedestals:

$$\begin{aligned} 10 \times 4 \times 0.30 \times 0.40 &= 4.80 \text{ m}^2 \\ 10 \times 4 \times 0.15 \times 0.15 &= \underline{0.90 \text{ m}^2} \\ &= 62.46 \text{ m}^2 \end{aligned}$$

@ Rs. 148/- m²

Rs. 9,244.82

6/2.3

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

For Reservoir:

$$\begin{aligned} 1 \times 2 \times 2.50 \times 0.15 \times 1.50 &= 1.12 \text{ m}^3 \\ 1 \times 2 \times 1.50 \times 0.15 \times 1.50 &= 0.67 \text{ m}^3 \\ 1 \times 1 \times 2.50 \times 1.50 \times 0.10 &= 0.37 \text{ m}^3 \end{aligned}$$

For pipe pedestals:

$$\begin{aligned} 10 \times 0.15 \times 0.15 \times 1.20 &= \underline{0.27 \text{ m}^3} \\ &= 2.43 \text{ m}^3 \end{aligned}$$

@ 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:

$$\begin{aligned} 2 \times 12 \times 2.30 &= 27.60 \text{ Rm.} \\ 2 \times 9 \times 2.30 &= 41.40 \text{ Rm.} \end{aligned}$$

For pipe pedestals:

$$\begin{aligned} 10 \times 4 \times 1.50 &= \underline{60.00 \text{ Rm.}} \\ &= 128.00 \text{ Rm.} \end{aligned}$$

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

8#Tor steel :

For Reservoir:

$$\begin{aligned} 2 \times 12 \times 1.40 &= 33.60 \text{ Rm.} \\ 2 \times 9 \times 2.40 &= 43.20 \text{ Rm.} \\ 2 \times 10 \times 1.40 &= 28.00 \text{ Rm.} \\ 2 \times 10 \times 1.40 &= \underline{28.00 \text{ Rm.}} \\ &= 132.80 \text{ Rm.} \end{aligned}$$

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

For pipe pedestals:

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

$$\begin{aligned} @ 0.22 \text{ kg./Rm} & \cdot & = & \frac{9.90 \text{ kgs}}{2.572 \text{ Qntls.}} \end{aligned}$$

@ 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

(b) 50mm G.I. Pipes.
Length – 27.05 R.M. @ Rs. 350/-Rm. Rs. 9,467.50

GRAND TOTAL : Rs. 60,002.82

Say, Rs. 60,000.00

(Rupees sixty 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

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

.@.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
					225	m ²

.@Rs.41.00/sq.m

9225

40278.22

Grand Total

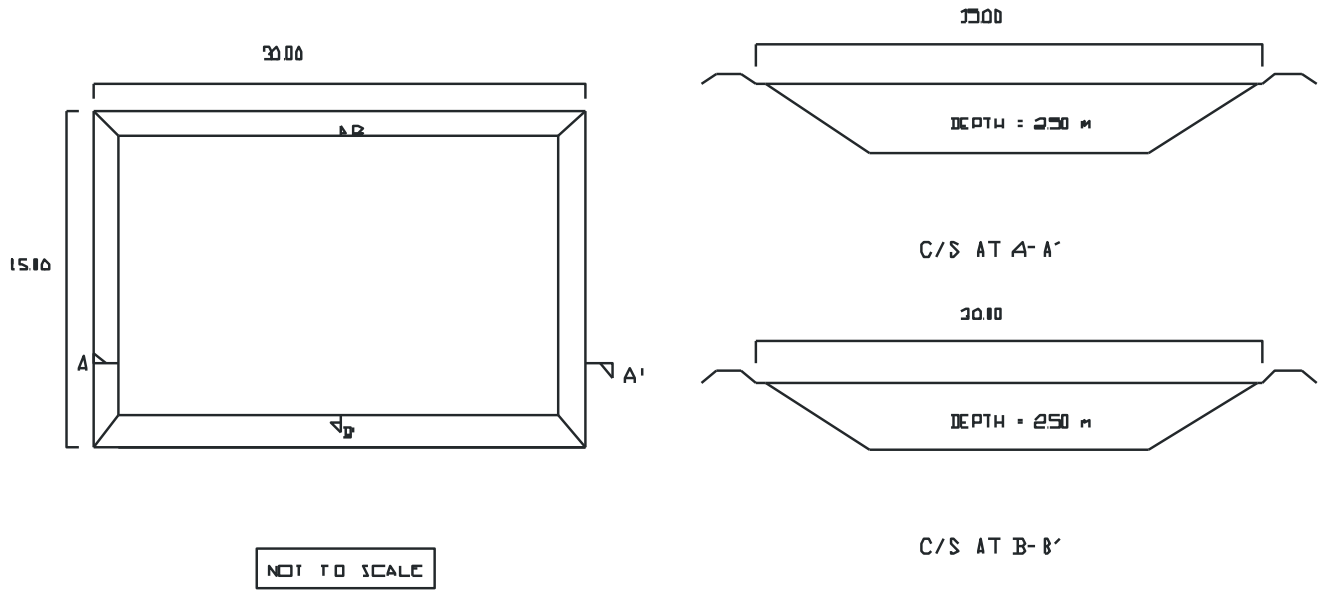
Say

Rs.

40,000.00

(Rupees Forty thousand)only.

PLAN FOR CONSTRUCTION OF DUGOUT POND



**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.

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

Spacing 6.06 m x 3.65 m
Plant
density 450 nos

A Preliminary Works

- | | | | |
|-----|--|--|------|
| I. | Site clearance | | |
| | 15 mandays @Rs. 100/- per manday | | 1500 |
| | Pit digging (pit size 0.75mx0.75mx0.75m) 450 nos | | |
| II. | @Rs. 10/- each | | 4500 |

	<hr style="border: 0.5px solid black;"/>	Total:	6000
--	--	--------	------

B First year Planting

- | | | | |
|------|--|--|------|
| I. | Cost of planting materials 450 nos @Rs. 20/- each | | 9000 |
| II. | Cost of planting 450 nos @Rs. 3/- each = Rs. 1350.00 (Contribution from the beneficiaries) | | |
| III. | Weeding two times | | |
| | 20 mandays @Rs. 100/- per manday = Rs. 2000/- (Contribution from the beneficiaries) | | |

	<hr style="border: 0.5px solid black;"/>	Total:	9000
--	--	--------	------

Grand Total:			15000
(Rupees Fifteen thousand) only.			

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

11400

(Rupees Eleven Thousand Four Hundred) only.

ANNEXURE IV

MoA, Sub Committee Details

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

Name of Villages: a) Dingnapara b) Chibonggagre

1	2	3	4	5			6	7
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	Nos/Rmt/Ha	Amount (Rs)		
				(b) livelihoods				
				(c) Any other (pl. specify)				
West Garo Hills	WGH-IWMP-III	NREGS (DRDA, West Garo Hills, Meghalaya)	2792000	a) Dugout Pond	15 nos	450000		District Level
				b) Bench Terrace	15.60 Ha	234000		
				c) Nallah Bund	5 nos	750000		
				d) CC Irrigation dam	2 nos	300000		
				e) Earthen Irri channel	3320 rmt	166000		
				f) CC protection wall	4 nos	300000		
				f) CC culvert	2 nos	100000		
				g) Rubber Plantation	35 Ha	492000		
Grand Total						2792000		

Grand Total: Twenty-Seven Lakhs Ninety Two Thousand only.

AGREEMENT FOR CONVERGENCE OF SCHEME

The village Employment Council of (VEC) and the communities of Dingnapara village, Selsella Block, West Garo Hills, Meghalaya has no objection to the convergence of NREGS with Integrated Management Project(IWMP) at Dingnapara village under Chimeseng Microwatershed, WGH-IWMP-III 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(2009-10 to 2013-14). The wage and material component under NREGS shall be utilized for following works:

- a) Dugout Pond
- b) Bench Terrace
- c) Water harvesting farm pond
- d) CC Irrigation dam
- e) Earthen Irri channel
- f) Spring chamber
- g) Arecanut Plantation
- h) Rubber Plantation

Sd/-
(President)
Village employment Council
Dingnapara/Chibonggagre
Selsella Block, WGH

Sd/-
(Secretary)
Village Employment Coucil
Dingnapara/Chibonggagre
Selsella Block, WGH

**NO OBJECTION CERTIFICATE OF THE AKING NOKMA FOR
CHIBONGGAGRE MICROWATERSHED DEVELOPMENT PROJECT TO BE
TAKEN UP UNDER
IWMP-III BY TURA SOIL&WATER CONSERVATION(T) DIVISION**

The Aking Nokma of Dingnapara & Chibonggagre village under Chimeseng Microwatershed Project, WGH-IWMP-III has No Objection to the developmental activities to be undertaken in my aking land by soil & water consevration Department.

The villagers of Dingnapara & Chibonggagre Aking land are ready to accept the development scheme after clear understanding of the objectives and the activities proposed under the project to be implemented in our watershed area.

There will be No Objection in future from the villagers of the watershed area as they have understood the objectives of the proposed scheme of the Soil & Water conservation Department.

Sd/-
Aking Nokma
Dingnapara /Chibonggagre
West Garo Hills, Meghalaya

