

DETAILED PROJECT REPORT

DILMA & MREKCHI WATERSHED

NORTH GARO HILLS INTEGRATED WATERSHED MANAGEMENT PROGRAMME

NGH - IWMP – V

2013 – 2014

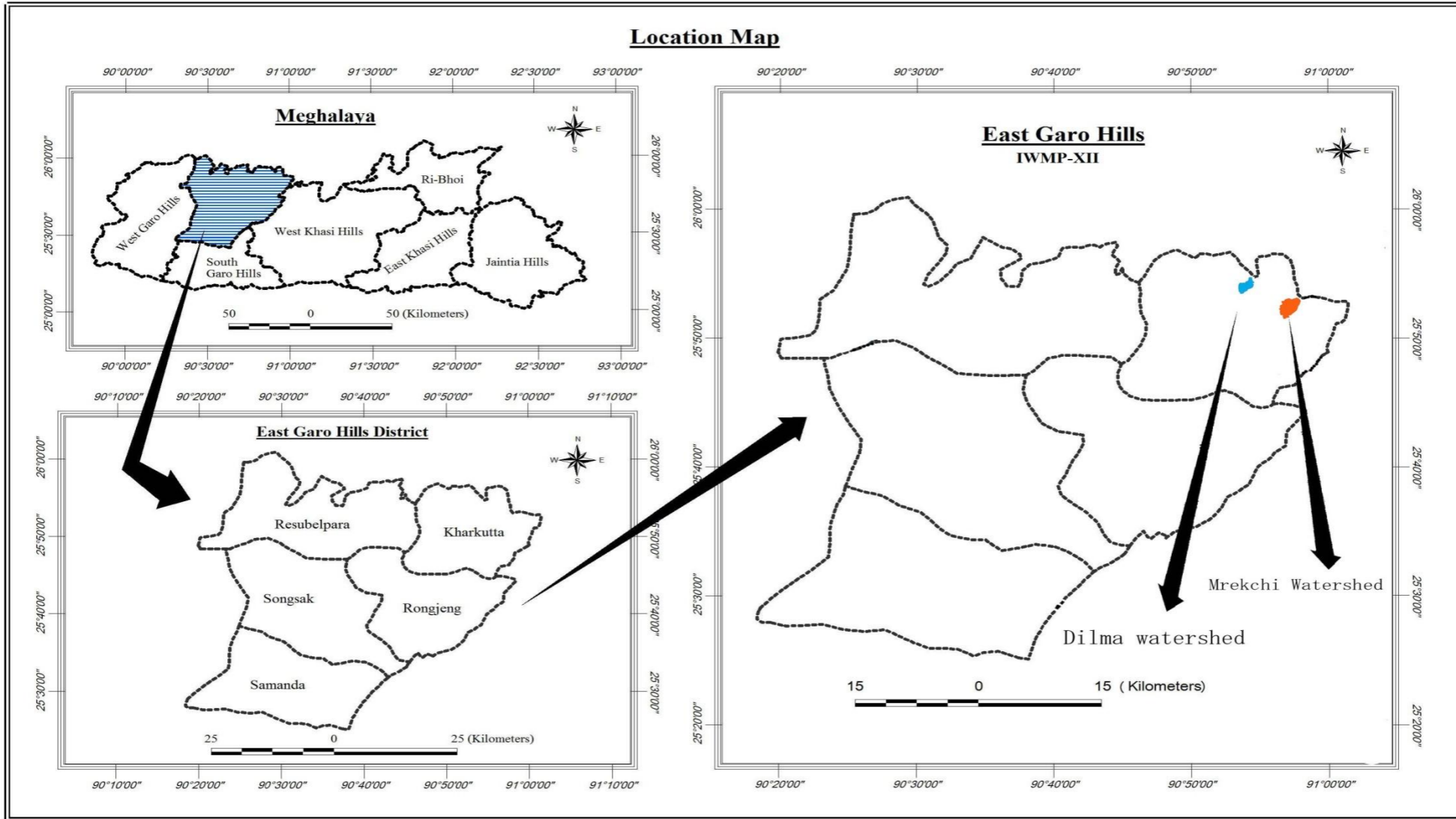
KHARKUTTA C.& R.D. BLOCK

NORTH GARO HILLS DISTRICT

MEGHALAYA

LOCATION MAP

Location Map



SUMMARY

Name of the State	:	Meghalaya.
Name of the District	:	North Garo Hills District.
Name of the C&RD Block	:	Kharkutta C&RD Block.
Name of the Villages	:	(1) Dilma Adap, (2) Reking, (3) Dapbolpara (4) Chiginde, (5) Doeni, and (6) Walkam
Name of the Project	:	NGH- IWMP – V
Total Geographical Area	:	2673 Ha.
Total Treatment Area	:	2200 Ha.
Total Project Cost	:	330.00 lakh.
Project Duration	:	5 Years.
Project Implementing Agency	:	Simsangre Soil & Water Conservation Division, Williamnagar.

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CHAPTER I
INTRODUCTION AND BACKGROUND

CHAPTER - I

INTRODUCTION AND BACKGROUND

1.1 Project Background:

The NGH-IWMP-V project is located in Kharkutta , C&RD Block, North Garo Hills District of Meghalaya. Consisting of two micro-watersheds, the project area is drained by the Dilma and Mrekchi Stream and its tributaries flowing in a South to North, South to East & North to South direction. The total geographical area is 2673 Ha. with 2200 Ha. to be treated under the Integrated Watershed Management Programme (IWMP).

The Project area is located at a distance of about 37 km from Kharkutta C.& R.D. Block Head Quarter and about 82 km from the District Headquarter. A total of 6(Six) villages are covered under the project. These are –

(1) Dilma Adap, (2) Reking, (3) Dapbolpara (4) Chiginde, (5) Doeni, and (6) Walkam

1.2 Micro-watershed Information:

The micro-watershed code is 3B1C2 and 3B1C2 as codified by the North East Space Application Centre (NESAC). The total area of the micro-watershed is 2673 Ha. with 2200 hectares to be treated under the Integrated Watershed Management Programme (IWMP).

1.3 Need and Scope for Watershed Development:

The micro-watershed 91°00'40"to91°03'20", 25°51'20"to 25°52'40" and 91°00'00"to91°04'10", 25°49'10 to 25°51'40" falls under the High Priority category as per the prioritization of watersheds by the North East Space Application Centre (NESAC). Located on the slopes of the North Garo Hills Plateau the 3(Three) villages have no road connectivity. The 15 households are below the poverty line, which is 347 of the total households. Jhum cultivation is practiced by most of the inhabitants of these villages on the slopes. Even though the area receives ample rainfall during the monsoons, there is acute shortage of water during the dry seasons and the villagers have to travel long distances for fetching water even for domestic use.

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

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

- i. MGNREGS – Convergence sheet Enclosed.

CHAPTER II

BASIC INFORMATION OF THE PROJECT AREA

CHAPTER - II

BASIC INFORMATION OF THE PROJECT AREA

2.1 Location:

The Project area is located within the area of Aking Land under Kharkutta C&RD Block of North Garo Hills District. It is situated at a distance of about 37km from Kharkutta C&RD Block Head Quarter about 82 km from the District Headquarter. The geographical location is between 91°00'40"to91°03'20", Longitude 25°51'20"to 25°52'40" Latitude, and 91°00'00" to 91°04'10", Longitude 25°49'10 to 25°51'40" Latitude.

There are 6(Six) villages within the Watershed which are as follows –

(1) Dilma Adap, (2) Reking, (3) Dapbolpara (4) Chiginde, (5) Doeni, and (6) Walkam

Out of the 6 (Six) villages 3 (Three) Village are motorable road. However road construction works are going under MNREGS in some of the villages.

2.2. Physiographic:

The physiographic of the Dilma Adap, micro-watershed is highly undulating. The altitude ranges from a minimum of 79m to a high of 420m, above mean sea level. In the lower reaches (valley lands) the slope ranges from 7 to 63%.

The physiographic of the Mrekchi, micro-watershed is highly undulating. The altitude ranges from a minimum of 62m to a high of 260m, above mean sea level. In the lower reaches (valley lands) the slope ranges from 6 to 67 %.

Table 2.1: Physiographic details

Name of Micro watershed	Elevation (metres)	Slope Range (%)	Order of watershed Sub/Micro-watershed	Major streams	Topography
Dilma Adap Watershed	79m - 420m	7% - 63%	Micro Watershed	Dilma Adap stream	Moderately sloping
Mrekchi Watershed	62m - 260m	6% - 67%	Micro Watershed	Mrekchi stream	Moderately sloping

Drainage: The major stream draining the micro-watershed is the Dilma Adap and Mrekchi stream which is a 3th order stream flowing in a North- East & North-South direction. The slopes of the micro-watershed are dissected by numerous small tributaries flowing to the above said river.

2.3 Soil: Soil Texture is medium throughout the watershed. Soil depth are quite deep. Soils are permeable and generally acidic in nature. Owing to undulating land form and absence of good vegetation cover, the area is exposed to erosion hazards. The soil nutrient status in the area shows a general trend of low phosphorous content. Soil texture is loamy.

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	North Garo Hills	NGH-IWMP-V	Water erosion:					
				a.	Sheet	} 2200	1700-2400	4297.49	
				b.	Rill				
				c.	Gully				
				Sub total		2200	1700-2400	4297.49	
Wind erosion		Nil	Nil	Nil					

2.4 Climate: The area in the foothills or low lying areas and mid-slopes are hot in summer and remain warm throughout the winter. The area on the higher reaches is warm during summer and cold during winter. The average annual rainfall is 3355 mm.

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

1	2	3	4	5	6	7		8	9	
Sl. No.	Name of State	Name of the Agro-climatic zone	Area (in ha)	Names of the district	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 Hypothermic Plateau 199-700m	2200 Ha.	North Garo Hills	NGH-IWMP-V	Loam, Clay Loam.	2200 Ha	3355 mm	Betel nut	-
									Betel leaf	-
									Oranges	-
									Paddy	1510Ha.
									Ginger	-
									Black pepper	-
									Litchi	-
									Banana	-
Pineapple	-									
								Total		1510 Ha.

2.5 Agriculture: Agriculture is the primary occupation of the people of the area. The people mostly practice jhum. The jhum plots vary from 0.5 to 1.0 Ha, and are cultivated for 2 years. The principal agricultural crops grown of the jhum fields are rice, millet, maize, ginger, yam and vegetables. Fruit crops are well suited in the lower reaches which include banana, pineapple and jackfruit. The slopes of the Dilma Adap and Mrekchi, are also very suitable for betel nut, betel leaf etc. which contribute to the income of the people.

Table 2.4: Crop yield and production

Crops	Area (ha)	Average Yield (Qtl) per ha.	Total Production (Qtl.)
Paddy	1510	19.36	292336
Millet			
Soyabean			
Yam			
Ginger			
Tapioca			
Betel nut			
Betel leaf			
Black Pepper			
Oranges			
Bay Leaf			

2.6 Natural Vegetation: The tree species common to the watershed area includes – *Shorea robusta*, *Schima walichii*, *Termenalia belerica*, *Emblica officinalis*, *Bahunia variegata*, *Duabanga* spp. and *Ficus* spp. However, due to jhum cultivation the forest cover of the area has reduced considerably.

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

Demographic Status: The total households in the watershed project is 347 Nos. 1954 with a total population of which 959 are male and 995 are female. The detail of the household in each of the villages in the watershed project is as follows:

(1) Dilma Adap	-	-	-	-	394 Nos.
(2) Reking	-	-	-	-	409 Nos.
(3) Dapbolpara	-	-	-	-	328 Nos.
(4) Chiginde	-	-	-	-	274 Nos.
(5) Doeni	-	-	-	-	323 Nos.
(6) Walkam	-	-	-	-	226 Nos.
<hr/>					
TOTAL	-	-	-	-	1954 Nos.

Infrastructure facilities :b

- 1 Roads:** Road connectivity is only under Dilma watershed and other under the project area road connectivity is not available.
- 2 School:** There are only 3Nos. L.P Schools & 1 Nos. U.P. Schools within the Project Area run by the Government.
- 3 Electricity :** There is available of electricity connection except three (3) villages of the water namely: Doeni, Walkam and chigende.
- 4 Health :** There is no CHC & PHC in the Project area. The nearest CHC is Kharkutta .
- 5 Water Supply :** Natural stream. Drinking Water facility is not yet provided in any of the villages. The villager are getting potable water.
- 6 Market :** There is a weekly market held once in a week at Kharkutta and Adokgre. However, the main market where the people sell their produce are at Adokgre

Table 2.5: Infrastructure Status.

1	2	3		4			
Name of District	Name of Project	Parameters:		Status			
North Garo Hills	NGH-IWMP-V	(i)	No. of villages connected to the main road by an all-weather road.	1			
		(ii)	No. of village provided with electricity	NIL			
		(iii)	No. of households without access to drinking water	NIL, but potable drinking water is available.			
		(iv)	No. of educational institutions: Primary (P)/ Secondary (S)/ Higher Secondary (HS)/ Vocational institution (VI)	(P)	(S)		
				3			
		(v)	No. of village with access to Primary Health Centre	Nil			
		(vi)	No. of village with access Veterinary Dispensary	Nil			
		(vii)	No. of village with access Post Office	Nil			
		(viii)	No. of village with access Banks	Nil			
		(ix)	No. of village with access Markets/ mandis	Nil			
		(x)	No. of village with access Agro-Industries	Nil			
		(xi)	Total quantity of surplus milk	Nil			
		(xii)	No. of milk collection centers (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	3 Nos.					
(xiv)	Any other facilities with no. of villages (please specify)	Nil					

2.8 Livestock: There are only 4(four) kinds of livestock farming being farmed in the area viz. Piggery, Poultry, Goattery, Cattles Rearing.

Table 2.6: Existing livestock population

Type of Animal	Population
Piggery	1590
Poultry	296
Cattles Rearing	700
Goattery	219
Total	2805

2.9 Land ownership: There are primarily 1(one) types of land holding system, namely Aking Land.

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
North Garo Hills	NGH-IWMP-V	(i) Large	Nil	Nil	Nil	Nil	Nil
		(ii) Small	Nil	Nil	Nil	Nil	Nil
		(iii) Marginal	1350	Nil	Nil	2673 Ha	2673 Ha
		(iv) Landless	Nil	604	Nil	Nil	Nil
		Sub - Total :	1350	604	--	2673 Ha.	2673 Ha.

Table 2.8: 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)
North Garo Hills	NGH-IWMP-V	(i) Wasteland/ degraded land	-	-	-	40ha	-	-	-	40Ha.
		(ii) Pastures	-	-	-		-	-	-	-
		(iii) Private Agriculture land	1510Ha.	-	-		165 Ha.	-	-	-
		(iv) Village woodlot	-	-	-		-	-	-	-
		(v) Forest	-	-	-	146ha	-	-	-	171Ha.
		(vi) Village Ponds/ Tanks	-	-	-		-	-	-	-
		(vii) Community Buildings	-	-	-	206ha	-	-	-	-
		(viii) Weekly Markets	-	-	-		-	-	-	-
		(ix) Permanent Markets	-	-	-		-	-	-	-
		(x) Temples/ Places of worship	-	-	-	2ha	-	-	-	-
		(xi) Others (Pl. specify)	-	-	-	769ha	-	-	-	1824Ha.
				Total	-	-	-	2673 Ha	-	-

2.10 Land use and land cover : As per the land use land cover map generated by NESAC, Meghalaya from Satellite Image taken during 2009 – 2010 (LISS – III, Image) the Watershed area has been broadly classified into the following land uses.

a) Built-up Area	=	206 Ha
b) Tree clad Area-close	=	146Ha
c) Tree clad Area-open	=	501Ha
d) Abandoned Jhum	=	310Ha
e) Agriculture	=	<u>1510Ha</u>
Total	=	2673 Ha

2.11 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 are converted to Broomstick cultivation areas which has further degraded the capability of the land. Mention may also be made here that the land use categorized as Tree-clad Area-open in the land used land cover map generated using Satellite Images of 2009 – 2010 are actually Broom-stick cultivation areas. In other words, unscientific method of cultivation has not only reduced the Jhum cycle, low crop yield but had adversely affected the ecological balance within the area. Road communication is another infrastructural 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 (2009). 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:

<i>1</i>	<i>2</i>	<i>3</i>
Sl.No.	Scientific criteria/ inputs used	No. of projects in which scientific criteria were used
A.	Planning	
	Cluster approach	Yes,
	Whether technical back-stopping for the project has been arranged? If yes, mention the name of the Institute.	Yes, (i) NESAC, Nongsder (ii) SNLA GIS Lab, Shillong
	Baseline survey	Yes
	Hydro-geological survey	No
	Contour mapping	No
	Participatory Net Planning (PNP)	No

1	2	3
	Remote sensing data-especially soil/ crop/ run-off cover	Yes
	Ridge to Valley treatment	Yes
	Online IT connectivity between Project and DRDA cell/ZP	Yes
	DRDA and SLNA	Yes
	SLNA and DoLR	Yes
	Availability of GIS layers	
	Cadastral map	No
	Village boundaries	No
	Drainage	Yes
	Soil (Soil nutrient status)	Yes
	Land use	Yes
	Ground water status	No
	Watershed boundaries	Yes
	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	
	Bio-pesticides	No
	Organic manures	Yes
	Vermi-compost	Yes
	Bio-fertilizer	Yes
	Water saving devices	Yes
	Mechanized tools/ implements	No
	Bio-fencing	Yes
	Nutrient budgeting	Yes
	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, Williamnagar, North 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	
North Garo Hills	NGH-IWMP-V	(i) Type of organization#	Government
		(ii) Name of organization	Simsanggre Soil & Water Conservation (T) Division, Williamnagar.
		(iii) Designation & Address	Divisional Soil & Water Conservation Officer, Simsanggre Division, Williamnagar.
		(iv) Telephone	03658-220228
		(v) Fax	-Do-
		(vi) E-mail	dswcosimsanggre@gmail.com

3.3 Institution Building

i) Watershed Committee (WC)

The Watershed Committee of the NGH-IWMP-V was constituted with the active involvement of the villagers with strong support of the Traditional Institutions (Village Nokma/Council). The NGH-IWMP-V Watershed Committee has been registered under the Society Registration Act 1860.

Table 3.2: Details of Watershed Committees (WC):

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
Names of the District	Names of project	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#		
North Garo Hills	NGH-IWMP-V	NGH-IWMP-V- Watershed Committee		President	2 M	-	ST										A to I		
				Secretary	1 M	-	ST											-Do-	
				Member	19 M	-	ST												-Do-
				Member	7 F	-	ST												-Do-

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

ii) Self Help Group

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

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

1	2	3				4				5			6		
Names of the District	Names of project	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
North Garo Hills	NGH-IWMP-V	1	1	1	3	(i) Landless									
						(ii) SF									
						(iii) MF	25	15	40	25	15	40	-	-	-
						(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
North Garo Hills	NGH-IWMP-V	320	-	-	320	(i) Landless									
						(ii) SF				ST	ST				
						(iii) MF	182	138	320	ST	ST				
						(iv) LF									
TOTAL		320	-	-	320		182	138	320						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
Names of Project	Amount earmarked for EPA (Rs.)	Entry Point Activities planned	Geographical Location
NGH-IWMP-V	13.2	Construction of Drinking Water Storage Tanks Construction of Drinking Water Structure	

ii) Other activities of Preparatory Phase:

1	2	3	4	5	6	7
Initiation of village level institution	Capacity building	IEC activities	Baseline survey	Hydro-geological survey	Identifying technical support agencies	Resource agreements
2 Nos. Watershed Committees	20 Nos.	-	Participatory Rural Appraisals	N.A	Done	Done

4.2 Watershed Works Phase:

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

(Rs. in Lakhs)

1	2	3			4											
		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 (Rs.)	No	Area to be treated (Ha.)	Storage capacity (per unit)	Estimated cost (Rs.)	No	Area to be treated (Ha.)	Storage capacity (m ³)	Estimated cost (Rs.)
Name of Projects	(i) Pond	-	-	-	-	-	-	-	15	203 ha	-	12.063	15	203 ha	-	12.063
	(ii) C.C. Dam	-	-	-	-	-	-	-	9	169 ha.	-	15.145	9	169 ha.	-	15.145
	(iii) Check Dam	-	-	-	-	-	-	-	10	180ha.	-	14.4	10	180ha.	-	14.4
	(iv) Channel	-	-	-	-	-	-	-	4	75ha.	-	6.6	4	75ha.	-	6.6
	(v) Boulder Sausage /Gabionic Structure	-	-	-	-	-	-	-	4	104 ha.	-	7.07	4	104 ha.	-	7.07
	(vi) Water Harvesting Structure	-	-	-	-	-	-	-	39	690 ha.	-	64.4	39	690 ha.	-	64.4
Total	-	-	-	-	-	-	-	-	81	1421 ha.	-	119.678	81	1421 ha.	-	119.678

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

1	2	3		4							
Names of projects	Type of structures	Pre-project		Proposed target							
		No.	Area irrigated (ha)	Augmentation/ repair of existing recharging structures			Construction of new recharging structures			Total target	
				No.	Area to be irrigated (ha)	Estimated cost	No.	Area to be irrigated (ha)	Estimated cost	Area to be irrigated (ha)	Estimated cost
NGH-IWMP-V	(i)Open wells		Nil		Nil			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.

User Groups will be formed accordingly for operation and maintenance of community assets created under the project, like community drinking water source, . The capacity of the user groups will be built through awareness and training programmes. User fees will be charged accordingly and fixed by the User Groups as per the requirement for maintenance of the assets created.

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

Awareness programmes will be conducted to sensitize the people on various aspects of SHGs. Training programmes shall be from time to time to further build the capacity of the SHGs. Besides, skill development training shall also be conducted for promoting income generation of the SHGs such as Piggery, handicrafts, poultry, integrated farming system, fruit processing etc.

4.2.5 Other activities of watershed works phase:

1	2		3		4		5		6		7		8		9		10		11		12
Names of projects	Ridge area treatment		Drainage line treatment		Nursery raising		Land development		Improvement Existing Paddy field		Agro Horti - (Citrus)		Preliminary & 1 st year Plantation Area		Improvement existing degraded Forest		Non-conventional energy		Any other (please specify)		Total Estimated Cost (Rs. In lakhs)
	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	
NGH-IWMP-V			1421 Ha.	119.678	R-288 Ha	32.4	74Ha.	14.8	165ha.	7.095	27ha	2.727			225 ha.	8.1			Livelihood, Production System	29.7 33	247.5

4.2.6 Details of engineering structures in watershed works:

1	2	3			4			5					
Project	Name of structures	Type of treatment			Type of land			Target				Expected month & year of completion (mm/yyyy)	
		(i) Ridge area (R)	(ii) Drainage line (D)	(iii) Land Dev. (L)	(i) Private (P)	(ii) Community	(iii) Others (pl. specify)	No. of units (No./ cum./ rmt)	Estimated cost (Rs. in lakh)				
									M	W	O		T
NGH-IWMP-V	Staggered trenching												
	Loose boulder Contour bund	-	-	-	-	-	-	-	-	-	-	-	-
	Graded bunding												
	Bench Terrace	R		L	P			74ha				14.8	03/2018
	Dugout Pond		D		P			203ha				12.063	03/2018
	C.C.Dam		D	L		Yes		169ha.				15.145	03/2018
	C.C. Check Dam		D			Yes		180ha.				14.5	03/2018
	C.C. Channel		D			Yes		75ha.				6.6	03/2018
	Boulder Sausage		D			Yes		104ha.				7.07	03/2018
	Water Harvesting		D			Yes		690ha.				64.4	03/2018
	Field bunds	-	-	-	-	-	-	-	-	-	-	-	-
Any others (pl. specify)	R		L	P			705 ha				50.222	03/2018	

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

1	2	3			4			5			
Project	Name of structure/ work	Type of treatment			Type of land			Target			
		(i) Ridge area (R)	(ii) Drainage line (D)	(iii) Land Dev. (L)	(i) Private	(ii) Community	(iii) Others (pl. specify)	Area (ha)	No. of plants	Estimated cost (Rs. in lakh)	Expected month & year of completion (mm/ yyyy)
NGH-IWMP-V	Impt. Degraded forest	(R)				✓		225ha.		8.1	03/2018
	Agro-forestry										
	Fuel wood										
	Fodder										
	Agro- Horticulture			(L)	✓			27ha.		2.727	03/2018
	Pasture dev.										
	Nursery raising			(L)		✓		288 ha.	129600	32.4	03/2018

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.

4.2.8 Details of allied / other activities:

1	2	3			4	
Project	Name of activity @	Type of land			Target	
		(i) Private	(ii) Community	(iii) Others (landless)	Estimated cost (Rs. in lakh)	Expected month & year of completion (mm/yyyy)
NGH-IWMP-V	Tailoring	118Unit			9.44	03/ 2018
	Carpentry/ Agri-implements/ Basket making etc.			49 Unit	2.45	03/ 2018
	Pisciculture	12Unit	21Unit		7.5	03/ 2018
	Piggery	68Unit	33 Unit		18.06	03/ 2018
	Rice Mill		9Unit		4.5	03/ 2018
	Turmeric cultivation		24Unit		3	03/ 2018
	Ginger cultivation		18 Unit		4.05	03/ 2018
	Weaving/Handloom	36Unit			4.5	03/ 2018
Kitchen gardening	158 Unit	21Unit		9.2	03/ 2018	

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

4.3 Consolidation and withdrawal phase

Details of activities in the CPRs in the project areas:

1	2	3	4	5			
Names of projects	Name(s) of the villages	CPR particulars	Activity proposed	Target			
				Target area under the activity (ha)	Estimated expenditure (Rs.)	Expected no. of beneficiaries	Estimated contribution to WDF (Rs.)
NGH-IWMP-V	Dapbolpara	Drinking Water	Drinking Water Storage Tank & Drinking Water Structure	-	13.2	Community	12.375
	Dilam Adap						
	Reking						
	Chiginde						
	Doeni						
	Walkam						
		Forest	Improvement of degraded Forest	225 ha	8.1	Community	

CHAPTER V
PROJECT PHASING & BUDGETING

BATCH-WISE ACTION PLAN OF NGH - IWMP - XI & XII UNDER SIMSANGGRE SOIL & WATER CONSERVATION DIVISION, WILLIAMNAGAR.
Name of C & R.D. Block : RESUBELPARA & KHARKUTTA Project Area - 4500 Ha.

	Activities	TOTAL				1st Year				2nd Year				3rd Year				4th Year				5th Year						
		Physical			Fin.	Physical			Fin.	Physical			Fin.	Physical			Fin.	Physical			Fin.	Physical			Fin.			
		Ha.	Nos.	Rmt.		Ha.	Nos.	Rmt.		Ha.	Nos.	Rmt.		Ha.	Nos.	Rmt.		Ha.	Nos.	Rmt.		Ha.	Nos.	Rmt.		Ha.	Nos.	Rmt.
I	Administrative Cost																											
i.	Honourarium of WDT Members @ Rs. 12000/ month – 2 nos.	0	0	0	23.04								10.08												5.76			
ii.	Hon ^{rm} of Watershed Volunteers @ Rs. 2500/- month – 6 nos.	0	0	0	11.7								0.9												0.9			
iii.	Hon ^{rm} WCO's @ Rs.1000/month x 36 months	0	0	0	1.8								0.24												0.24			
iv.	Hon ^{rm} WCM @ Rs.200 x 44 Nos. members/month for 38 months	0	0	0	6.688								0.528												5.896			
v.	Hon ^{rm} Office assistance @Rs.5000/month x 36 months.	0	0	0	7.2								0.25												2.58			
vi.	Hon ^{rm} Chartered Accountant	0	0	0	1.81								0.142												1.568			
vii.	TA/DA of Field Asstt. @ 5000/month.	0	0	0	7.5								0.46												1.9			
viii.	Hiring charges of office building @ 1500/month.	0	0	0	1.62								0.72												0.5			
ix.	Hiring charges of vehicle @ 5000/month.	0	0	0	1.6																				0.9			
x.	Office expenses, POL, Stationeries, printing of SHG's books, pamphlets, tea, snacks etc, cost of camera.	0	0	0	4.542								0.18												1.986			
II	Monitoring & Evaluation	0	0	0	0																							
i.	Cost of Honourarium to evaluator.	0	0	0	7.45								2.125												3.675			
ii.	Cost of printing report etc.	0	0	0	6.05								1.25												3.075			
	Sub Total (I+II)	0	0	0	81								16.875	0	0	0	40.5	0	0	0	23.625	0	0	0	0	0	0	0

IV	Work Phase																									
A	Arable Land Treatment																									
i.	Bench Terrace @Rs.20000/ ha.	130.5	0	0	26.1				19			3.8	64			12.8	47.5			9.5						
ii.	Improvement existing Paddy field @Rs.4300/ha.	445	0	0	19.135				140			6.02	170			7.31	135			5.805						
iii.	Agro-Horticulture @Rs.10100/ ha.	27	0	0	2.727				9			0.909	9			0.909	9			0.909						
	Sub-Total Of A	602.5	0	0	47.962	0	0	0	0	168	0	0	10.729	243	0	0	21.019	191.5	0	0	16.214	0	0	0	0	0
B	Non-Arable Land																									
i.	Creation of Rubber Nursery(polybag) @Rs.25/each.	603	271350	0	67.8375				126	56700		14.175	257	115650		28.9125	220	99000		24.75						
ii.	Imp.of existing degraded Forest @Rs.3600/ ha.	280	0	0	10.08				65			2.34	155			5.58	60			2.16						
	Sub-Total of B	883	271350	0	77.9175	0	0	0	0	191	56700	0	16.515	412	115650	0	34.4925	280	99000	0	26.91	0	0	0	0	0
C	Drainage Line Treatment																									
i	C.C.Irrigation Dam.	839	34	0	68.1275				135	9		14.775	694	24		52.0625	10	1		1.29						
ii	Water Harvesting Structure with C.C.Core wall.	1143	67	0	103.955				75	3		5.635	882	56		88.04	186	8		10.28						
iii.	Boulder Sausage Protection wall.	314.5	18	0	18.775								233	15		14.215	81.5	3		4.56						
iv.	Dug out Pond.	433	51	0	37.263				30	3		2.971	223	24		18.621	180	24		15.671						
v	C.C.Irrigation Channel.	105	5	0	9.6								105	5		9.6										
vi	C.C.Check Dam	180	10		14.4								128	8		11.7	52	2		2.7						
	Sub-Total of C	3014.5	185	0	252.1205	0	0	0	0	240	15	0	23.381	2265	132	0	194.2385	509.5	38	0	34.501	0	0	0	0	0

D	Livelihood																							
i	Tailoring @ Rs. 8000/- unit	0	229	0	18.32					36	2.88		79	6.32		114	9.12							
ii	Carpentry @ Rs. 5000/- unit.	0	88	0	4.4					20	1		25	1.25		43	2.15							
iii.	Kitchen Gardening @ Rs. 2500/- unit	0	470	0	11.75					86	2.15		120	3		264	6.6							
iv.	Pisciculture @ Rs. 10000/ unit	0	20	0	2								7	0.7		13	1.3							
v	Piggery/Poultry @Rs. 12000/- unit.	0	144	0	17.28					6	0.72		54	6.48		84	10.08							
vi	Weaving @Rs. 12500/- unit.	0	56	0	7								20	2.5		36	4.5							
	Sub-Total of D	0	1007	0	60.75	0	0	0	0	148	0	6.75	0	305	0	20.25	0	554	0	33.75	0	0	0	0
E	Production System																							
i	Piggery/Poultry @ Rs. 30000/- unit.	0	83	0	24.9					15	4.5		28	8.4		40	12							
ii	Pisciculture @ Rs. 30000/ unit	0	43	0	12.9								14	4.2		29	8.7							
iii.	Ricemill @Rs. 50000/- unit.	0	13	0	6.5					3	1.5		3	1.5		7	3.5							
iv.	Ginger Plantation @Rs.22500/ unit.	0	18	0	4.05								9	2.025		9	2.025							
v	Turmeric Plantation @Rs.12500/ unit.	0	24	0	3								3	0.375		21	2.625							
vi	Power Tiller @Rs.195000/unit.	0	2	0	3.9											2	3.9							
vii	Kitchen Gardening @ Rs. 25000/- unit	0	49	0	12.25					3	0.75		15	3.75		31	7.75							
	Sub-Total of E	0	232	0	67.5	0	0	0	0	21	0	6.75	0	72	0	20.25	0	139	0	40.5	0	0	0	0
	Sub-Total of IV (A+B+C+D+E)	4500	272774	0	506.25	0	0	0	599	56884	0	64.125	2920	116159	0	290.25	981	99731	0	151.875	0	0	0	0

IV	Consolidation Phase																								
i	Repairs, Maintenance of CPR's.	0	0	0	11.4																				11.4
ii	Improving the sustainability of various Interventions	0	0	0	4.3																				4.3
iii.	Documentation of successful experiences & Preparation of Completion Report	0	0	0	4.55																				4.55
	Sub-Total of V	0	0	0	20.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20.25
	Grand Total (I+II+III+IV+V)	4500	272866	0	675	0	38	0	40.5	599	56902	0	94.5	2920	116177	0	337.5	981	99749	0	182.25	0	0	0	20.25

PROJECT WISE ACTION PLAN OF IWMP - V, SIMSANGGRE SOIL & WATER CONSERVATION DIVISION, WILLIAMNAGAR.
Name of C & R.D. Block : KHURKUTTA, Project Area - 2200 Ha. Name of Watershed :DILMA ADAP & MREKCHI WATERSHED

Activities	TOTAL				1St Year				2nd Year				3rd Year				4th Year				5th Year				
	Physical				Physical				Physical				Physical				Physical				Physical				
	Ha.	Nos.	Rmt.	Fin.	Ha.	Nos.	Rmt.	Fin.	Ha.	Nos.	Rmt.	Fin.	Ha.	Nos.	Rmt.	Fin.	Ha.	Nos.	Rmt.	Fin.	Ha.	Nos.	Rmt.	Fin.	
I	Administrative Cost																								
i.	Honourarium of WDT Members @ Rs. 12000/ month – 1 no.												4.32				4.32				2.88				
ii.	Hon ^m of Watershed Volunteers @ Rs. 2500/- month – 3 nos.								0.9				4.5				0.9								
iii.	Hon ^m WCO's @ Rs.1000/month x 36 months								0.24				0.6				0.24								
iv.	Hon ^m WCM @ Rs.200 x 22 Nos. members/ month for 38 months								0.528				2.552				0.264								
v.	Hon ^m Office assistance @Rs.5000/month x 36								0.25				1.56				1.79								
vi.	Hon ^m Chartered Accountant								0.142				0.2				0.1								
vii.	TA/DA of Field Asstt. @ 5000/ month.								0.22				0.7				1.78								
viii.	Hiring charges of office building @ 1500/-								0				0.5				0.31								
ix.	Hiring charges of vehicle @ 5000/month.								0				0.6				0.5								
x.	Office expenses, POL, Stationeries, printing of SHG's books, pamphlets, tea, snacks etc, cost of camera.								0				0.968				1.136								
II	Monitoring & Evaluation																								
i.	Cost of Honourarium to evaluator.								1.09				1.95				0.81								
ii.	Cost of printing report etc.								0.56				1.35				0.84								
Sub Total (I+II)	0	0	0	39.6	0	0	0	0	0	0	0	0	8.25	0	0	0	19.8	0	0	0	11.55	0	0	0	0
III	Preparatory Phase																								
EPA																									
i.	Const. of Drinkind water Storage Tanks								5				7.5												
iv.	Const. of Drinkind water Structure								6				5.7												

	DPR	0	0	0	0																			
i.	Cost of Resources Inventories works	0	0	0	0.7				0.7															
ii.	Cost of PRA Exercises	0	0	0	0.8				0.8															
iii.	Cost of Land use Survey works	0	0	0	1.6				1.6															
iv.	Cost of formulating	0	0	0	0.2				0.2															
	Institutional &Capacity Building	0	0	0	0																			
i.	Administrative Expenses	0	0	0	0																			
ii.	Awareness Campaign & Capacity building	0	8	0	4.6		2		1		2		1.6		2		1		2		1			
iii.	Exposure visits – off. Campus	0	4	0	4.8		1		0.9		1		2.1		1		0.9		1		0.9			
iv.	Capacity building of SHG's/ UG's.	0	8	0	2.6		2		0.5		2		1.1		2		0.5		2		0.5			
v.	Capacity building of WC Members.	0	8	0	2.3		2		0.4		2		1.1		2		0.4		2		0.4			
vi.	Capacity building of WDT/WV	0	4	0	2.2		1		0.5		1		0.7		1		0.5		1		0.5			
	Sub-Total of III	0	43	0	33	0	19	0	19.8	0	8	0	6.6	0	8	0	3.3	0	8	0	3.3	0	0	0
IV	Work Phase																							
A	Arable Land Treatment																							
i.	1) Bench terrace @Rs.20000/- per ha.	74	0	0	14.8				19				3.8	34			6.8	21			4.2			
ii.	2) Improvement existing Paddy field @Rs.4300/- per ha.	165	0	0	7.095				60				2.58	60			2.58	45			1.935			
iii.	3) Agro Horticulture @Rs.10100/-per ha.	27	0	0	2.727				9				0.909	9			0.909	9			0.909			
	Sub-Total Of A	266	0	0	24.622	0	0	0	88	0	0	0	7.289	103	0	0	10.289	75	0	0	7.044	0	0	0
B	Non-Arable Land																							
i.	1) Creation of Rubber Nursery(polybag) @Rs.25 each.	288	129600	0	32.4				66	29700			7.425	132	59400		14.85	90	40500		10.125			
ii.	2) Improvement existing degraded Forest. Preliminary 1st year. @Rs. 3600/- per ha.	225	0	0	8.1				45				1.62	120			4.32	60			2.16			
	Sub-Total of B	513	129600	0	40.5	0	0	0	111	29700	0	0	9.045	252	59400	0	19.17	150	40500	0	12.285	0	0	0

C	Drainage Line Treatment																								
ii	Water harvesthing farm pond with CC Core wall	138	7	0	10.9								53	4		6.2	85	3			4.7				
iii	C.C Irrigation Dam	169	9	0	15.145					45	3		4.045	124	6		11.1								
iv	Dugout pond	203	15	0	12.063					30	3		2.971	93	7		6.121	80	5			2.971			
v	Water harvesthing farm pond with CC Core wall	552	32	0	53.5					15	1		1.4	444	27		47.3	93	4			4.8			
vi	C.C. chennel	75	4	0	6.6									75	4		6.6								
vii	Boulder Sausage	104	4	0	7.07									48	2		3.62	56	2			3.45			
VIII	C.C. check dam	180	10		14.4									128	8		11.7	52	2			2.7			
	Sub-Total of C	1421	81	0	119.678	0	0	0	0	90	7	0	8.416	965	58	0	92.641	366	16	0	18.621	0	0	0	0
D	Livelihood																								
i	Tailoring @ Rs. 8000/- unit	0	118	0	9.44						16		1.28		42		3.36		60			4.8			
ii	Carpentry @ Rs. 5000/-unit.	0	49	0	2.45						13		0.65		21		1.05		15			0.75			
iii.	Kitchen Gardening @ Rs. 2500/- unit	0	158	0	3.95						26		0.65		42		1.05		90			2.25			
iv.	Pisciculture @ Rs. 10000/ unit	0	12	0	1.2										3		0.3		9			0.9			
v	Piggery/Poultry @Rs. 12000/- unit.	0	68	0	8.16						6		0.72		22		2.64		40			4.8			
vi	Weaving @Rs. 12500/- unit.	0	36	0	4.5										12		1.5		24			3			
	Sub-Total of D	0	441	0	29.7	0	0	0	0	0	61	0	3.3	0	142	0	9.9	0	238	0	16.5	0	0	0	0
E	Production System																								
i	Piggery @ Rs. 30000/- unit.	0	33	0	9.9						6		1.8		9		2.7		18			5.4			
ii	Pisciculture @ Rs. 30000/ unit	0	21	0	6.3										6		1.8		15			4.5			
iii.	Ricemill @Rs. 50000/- unit.	0	9	0	4.5						3		1.5		3		1.5		3			1.5			
iv.	Ginger Plantation @Rs.22500/- unit.	0	18	0	4.05										9		2.025		9			2.025			
v	Turmeric Plantation @Rs.12,500/- unit	0	24	0	3										3		0.375		21			2.625			
vi	Kitchen Gardening @ Rs. 25000/- unit	0	21	0	5.25										6		1.5		15			3.75			
vii	Power Teller @ 195000/- unit	0	0	0	0																				
	Sub-total of E	0	126	0	33	0	0	0	0	0	9	0	3.3	0	36	0	9.9	0	81	0	19.8	0	0	0	0
	Sub-total of IV(A+B+C+D+E)	2200	130248	0	247.5	0	0	0	0	289	29777	0	31.35	1320	59636	0	141.9	591	40835	0	74.25	0	0	0	0

VILLAGE WISE ACTION PLAN OF IWMP - V, SIMSANGGRE SOIL & WATER CONSERVATION DIVISION, WILLIAMNAGAR.

Name of C & R.D. Block : KHARKUTTA, Project Area - 1000 Ha. Name of Watershed :DILMA ADAP WATERSHED

Activities	TOTAL				1st Year				2nd Year				3rd Year				4th Year				5th Year				
	Physical			Fin.	Physical			Fin.	Physical			Fin.	Physical			Fin.	Physical			Fin.	Physical			Fin.	
	Ha.	Nos.	Rmt.		Ha.	Nos.	Rmt.		Ha.	Nos.	Rmt.		Ha.	Nos.	Rmt.		Ha.	Nos.	Rmt.		Ha.	Nos.	Rmt.		
I	Administrative Cost																								
i.	Honourarium of WDT Members @ Rs. 12000/ month – 1 no.	0	0	0	5.76							2.88				1.44				1.44					
ii.	Hon ^{rm} of Watershed Volunteers @ Rs. 2500/- month – 3 nos.	0	0	0	2.7											2.7									
iii.	Hon ^{rm} WCO's @ Rs.1000/month x 36 months	0	0	0	0.36											0.36									
iv.	Hon ^{rm} WCM @ Rs.200 x 22 Nos. members/ month for 38 months	0	0	0	1.672											1.672									
v	Hon ^{rm} Office assistance @Rs.5000/month x 36	0	0	0	1.8											0.51				1.29					
vi	Hon ^{rm} Chartered Accountant	0	0	0	0.1											0.1									
vii	TA/DA of Field Asstt. @ 5000/ month.	0	0	0	2.4							0.12				0.6				1.68					
viii	Hiring charges of office building @ 1500/-	0	0	0	0.09															0.09					
ix.	Hiring charges of vehicle @ 5000/month.	0	0	0	0.1											0.1									
x	Office expenses, POL, Stationeries, printing of SHG's books, pamphlets, tea, snacks etc, cost of camera.	0	0	0	0.018											0.018									
II	Monitoring & Evaluation																								
i.	Cost of Honorarium to evaluator.	0	0	0	1.65							0.45				0.75				0.45					
ii.	Cost of printing report etc.	0	0	0	1.35							0.3				0.75				0.3					
	Sub Total (I+II)	0	0	0	18							3.75				9				5.25					
III	Preparatory Phase																								
	EPA																								
	DAPBOLPARA																								
i.	Const. of Drinkin Water storage Tank at Tekra St	0	1	0	1.35		1		1.35																
	DILMA ADAP																								
i	Const. of Drinkin Water storage Tank at Reserve St.	0	1	0	1.35		1		1.35																
ii	Const. of Drinking water Structure .	0	1	0	0.95		1		0.95																
	REKING																								
iii.	Const. of Drinkin Water storage Tank at Tekra Stream	0	1	0	1.4		1		1.4																
iv.	Const. of Drinking water Structure .	0	1	0	0.95		1		0.95																

	DPR	0	0	0	0																			
i.	Cost of Resources Inventories works	0	0	0	0.2				0.2															
ii.	Cost of PRA Exercises	0	0	0	0.4				0.4															
iii.	Cost of Land use Survey works	0	0	0	0.8				0.8															
iv.	Cost of formulating	0	0	0	0.1				0.1															
	Institutional &Capacity Building	0	0	0	0																			
i.	Administrative Expenses	0	0	0	0																			
ii.	Awareness Campaign & Capacity building	0	4	0	1.8		1		0.4		1		0.6		1		0.4		1		0.4			
iii.	Exposure visits – off. Campus	0	4	0	3		1		0.6		1		1.2		1		0.6		1		0.6			
iv.	Capacity building of SHG's/ UG's.	0	4	0	1.1		1		0.2		1		0.5		1		0.2		1		0.2			
v.	Capacity building of WC Members.	0	4	0	1.1		1		0.2		1		0.5		1		0.2		1		0.2			
vi.	Capacity building of WDT/WV	0	4	0	0.5		1		0.1		1		0.2		1		0.1		1		0.1			
	Sub-Total of III	0	25	0	15	0	10	0	9	0	5	0	3	0	5	0	1.5	0	5	0	1.5	0	0	0
IV	Work Phase																							
A	Arable Land Treatment																							
	DILMA ADAP																							
i.	1) Bench terrace @Rs.20000/- per ha.	6	0	0	1.2					2			0.4	2			0.4	2			0.4			
ii.	2) Improvement existing Paddy field @Rs.4300/- per ha.	30	0	0	1.29					10			0.43	10			0.43	10			0.43			
iii.	3) Agro Horticulture @Rs.10100/-per ha.	0	0	0	0																			
	REKING	0	0	0	0																			
i.	1) Bench terrace @Rs.20000/- per ha.	7	0	0	1.4					1			0.2	1			0.2	5			1			
ii.	2) Improvement existing Paddy field @Rs.4300/- per ha.	30	0	0	1.29					10			0.43	10			0.43	10			0.43			
iii.	3) Agro Horticulture @Rs.10100/-per ha.	0	0	0	0																			
	DAPBOLPARA	0	0	0	0																			
i.	1) Bench terrace @Rs.20000/- per ha.	7	0	0	1.4					1			0.2	1			0.2	5			1			
ii.	2) Improvement existing Paddy field @Rs.4300/- per ha.	30	0	0	1.29					10			0.43	10			0.43	10			0.43			
iii.	3) Agro Horticulture @Rs.10100/-per ha.	0	0	0	0																			
	Sub-Total Of A	110	0	0	7.87	0	0	0	0	34	0	0	2.09	34	0	0	2.09	42	0	0	3.69	0	0	0

B	Non-Arable Land																								
	DILMA ADAP																								
i.	1) Creation of Rubber Nursery(polybag) @Rs.25 each.	45	20250	0	5.0625					10	4500		1.125	20	9000		2.25	15	6750			1.6875			
ii.	2) Improvement existing degraded Forest. Preliminary 1st year. @Rs. 3600/- per ha.	15	0	0	0.54					5			0.18	5			0.18	5				0.18			
	REKING	0	0	0	0																				
i.	1) Creation of Rubber Nursery(polybag) @Rs.25 each.	45	20250	0	5.0625					10	4500		1.125	20	9000		2.25	15	6750			1.6875			
ii.	2) Improvement existing degraded Forest. Preliminary 1st year. @Rs. 3600/- per ha.	15	0	0	0.54					5			0.18	5			0.18	5				0.18			
	DAPBOLPARA	0	0	0	0																				
i.	1) Creation of Rubber Nursery(polybag) @Rs.25 each.	45	20250	0	5.0625					10	4500		1.125	20	9000		2.25	15	6750			1.6875			
ii.	2) Improvement existing degraded Forest. Preliminary 1st year. @Rs. 3600/- per ha.	15	0	0	0.54					5			0.18	5			0.18	5				0.18			
	Sub-Total of B	180	60750	0	16.8075	0	0	0	0	45	13500	0	3.915	75	27000	0	7.29	60	20250	0	5.6025	0	0	0	0
C	Drainage Line Treatment																								
	DILMA ADAP																								
i	DugOut Pond	65	5	0	3.6					10	1		1.2	20	2		1.2	35	2			1.2			
ii	C.C Irrigation Dam	35	2	0	2.8					15	1		1.4	20	1		1.4								
i	Boulder sausage	85	6	0	9									85	6		9								
iv	C.C Check Dam	56	3	0	4.2									56	3		4.2								
v	Water harvesthing farm pond with CC Core wall	8	1	0	1.7									8	1		1.7								
	REKING	0	0	0	0																				
i	C.C Irrigation Dam	15	1	0	1.245					15	1		1.245												
ii	Water harvesthing farm pond with CC Core wall	20	1	0	1.7									20	1		1.7								
i	DugOut Pond	33	2	0	1.4075									8	1		0.8	25	1			0.6075			
iv	Stone Masonary and protection wall	58	2	0	4.27									30	1		2.12	28	1			2.15			
v	Boulder sausage	82	5	0	7									82	5		7								
	DAPBOLPARA	0	0	0	0																				
ii	C.C Irrigation Dam	25	2	0	3.8					15	1		1.4	10	1		2.4								
	Boulder sausage	81	5	0	6.8									56	4		5.6	25	1			1.2			
i	Stone Masonary and protection wall	46	2	0	2.8									18	1		1.5	28	1			1.3			
	C.C Check Dam	101	6	0	9									72	5		7.5	29	1			1.5			
	Sub-Total of C	710	43	0	59.3225	0	0	0	0	55	4	0	5.245	485	32	0	46.12	170	7	0	7.9575	0	0	0	0

D	Livelihood																								
	DILMA ADAP																								
i	Tailoring @ Rs. 8000/- unit	0	15	0	1.2					5		0.4					10		0.8						
ii	Carpentry @ Rs. 5000/-unit.	0	4	0	0.2					2		0.1					2		0.1						
iii.	Kitchen Gardening @ Rs. 2500/- unit	0	30	0	0.75					10		0.25					20		0.5						
iv.	Pisciculture @ Rs. 10000/ unit	0	3	0	0.3								1		0.1		2		0.2						
v	Piggery/Poultry @Rs. 12000/- unit.	0	7	0	0.84								3		0.36		4		0.48						
vi	Weaving @Rs. 12500/- unit.	0	6	0	0.75								2		0.25		4		0.5						
	REKING																								
i	Tailoring @ Rs. 8000/- unit	0	25	0	2					5		0.4	10		0.8		10		0.8						
ii	Carpentry @ Rs. 5000/-unit.	0	8	0	0.4					2		0.1	4		0.2		2		0.1						
iii.	Kitchen Gardening @ Rs. 2500/- unit	0	50	0	1.25					10		0.25	20		0.5		20		0.5						
iv.	Pisciculture @ Rs. 10000/ unit	0	3	0	0.3								1		0.1		2		0.2						
v	Piggery/Poultry @Rs. 12000/- unit.	0	6	0	0.72								3		0.36		3		0.36						
vi	Weaving @Rs. 12500/- unit.	0	6	0	0.75								2		0.25		4		0.5						
	DAPBOLPARA																								
i	Tailoring @ Rs. 8000/- unit	0	15	0	1.2								5		0.4		10		0.8						
ii	Carpentry @ Rs. 5000/-unit.	0	4	0	0.2								2		0.1		2		0.1						
iii.	Kitchen Gardening @ Rs. 2500/- unit	0	30	0	0.75								10		0.25		20		0.5						
iv.	Pisciculture @ Rs. 10000/ unit	0	3	0	0.3								1		0.1		2		0.2						
v	Piggery/Poultry @Rs. 12000/- unit.	0	7	0	0.84								4		0.48		3		0.36						
vi	Weaving @Rs. 12500/- unit.	0	6	0	0.75								2		0.25		4		0.5						
	Sub-Total of D	0	228	0	13.5	0	0	0	0	0	34	0	1.5	0	70	0	4.5	0	124	0	7.5	0	0	0	0

IV	Consolidation Phase																										
i	Repairs, Maintenance of CPR's.	0	0	0	2.6																						2.6
ii	Improving the sustainability of various Interventions	0	0	0	0.825																						0.825
iii.	Documentation of successful experiences & Preparation of Completion Report	0	0	0	1.075																						1.075
	Sub-Total of V	0	0	0	4.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.5	
	Grand Total (I+II+III+IV+V)	1000	61103	0	150	0	10	0	9	134	13546	0	21	594	27125	0	75	272	20422	0	40.5	0	0	0	4.5		

VILLAGE WISE ACTION PLAN OF IWMP - V, SIMSANGGRE SOIL & WATER CONSERVATION DIVISION, WILLIAMNAGAR.

Name of C & R.D. Block : KHARKUTTA, Project Area - 1200 Ha. Name of Watershed :MREKCHI WATERSHED

	Activities	TOTAL				1St Year				2nd Year				3rd Year				4th Year				5th Year			
		Physical				Physical				Physical				Physical				Physical				Physical			
		Ha.	Nos.	Rmt.	Fin.	Ha.	Nos.	Rmt.	Fin.	Ha.	Nos.	Rmt.	Fin.	Ha.	Nos.	Rmt.	Fin.	Ha.	Nos.	Rmt.	Fin.	Ha.	Nos.	Rmt.	Fin.
I	Administrative Cost																								
i.	Honourarium of WDT Members @ Rs. 12000/ month – 1 no.	0	0	0	5.76								1.44				2.88				1.44				
ii.	Hon ^m of Watershed Volunteers @ Rs. 2500/- month – 3 nos.	0	0	0	3.6								0.9				1.8				0.9				
iii.	Hon ^m WCO's @ Rs.1000/month x 36 months	0	0	0	0.72								0.24				0.24				0.24				
iv.	Hon ^m WCM @ Rs.200 x 22 Nos. members/ month for 38 months	0	0	0	1.672								0.528				0.88				0.264				
v	Hon ^m Office assistance @Rs.5000/month x 36	0	0	0	1.8								0.25				1.05				0.5				
vi	Hon ^m Chartered Accountant	0	0	0	0.342								0.142				0.1				0.1				
vii	TA/DA of Field Asstt. @ 5000/ month.	0	0	0	0.3								0.1				0.1				0.1				
viii	Hiring charges of office building @ 1500/-	0	0	0	0.72												0.5				0.22				
ix.	Hiring charges of vehicle @ 5000/month.	0	0	0	1												0.5				0.5				
x	Office expenses, POL, Stationeries, printing of SHG's books, pamphlets, tea, snacks etc, cost of camera.	0	0	0	2.086												0.95				1.136				
II	Monitoring & Evaluation																								
i.	Cost of Honourarium to evaluator.	0	0	0	2.2								0.64				1.2				0.36				
ii.	Cost of printing report etc.	0	0	0	1.4								0.26				0.6				0.54				
	Sub Total (I+II)	0	0	0	21.6								4.5				10.8				6.3				
III	Preparatory Phase																								
	EPA																								
	CHIGINDE																								
i.	Const. of Drinking water structure	0	2	0	1.9		2		1.9																
	DOENI																								
i	const. Of Drinking Water storage Tank	0	2	0	3.4		2		3.4																
	WALKAM																								
i	Const. of Drinking water structure	0	2	0	1.9		2		1.9																

	DPR	0	0	0	0																				
i.	Cost of Resources Inventories works	0	0	0	0.5				0.5																
ii.	Cost of PRA Exercises	0	0	0	0.5				0.5																
iii.	Cost of Land use Survey works	0	0	0	0.4				0.4																
iv.	Cost of formulating	0	0	0	0.4				0.4																
	Institutional & Capacity Building	0	0	0	0																				
i.	Administrative Expenses	0	0	0	3.5				0.8			1.3				0.8				0.6					
ii.	Awareness Campaign & Capacity building	0	5	0	1.4		1		0.2		2		0.8		1		0.2		1		0.2				
iii.	Exposure visits – off. Campus	0	5	0	1.7		1		0.3		2		0.8		1		0.3		1		0.3				
iv.	Capacity building of SHG's/ UG's.	0	4	0	1.2		1		0.3		1		0.3		1		0.3		1		0.3				
v.	Capacity building of WC Members.	0	4	0	0.6		1		0.1		1		0.2		1		0.1		1		0.2				
vi.	Capacity building of WDT/WV	0	4	0	0.6		1		0.1		1		0.2		1		0.1		1		0.2				
	Sub-Total of III	0	28	0	18	0	11	0	10.8	0	7	0	3.6	0	5	0	1.8	0	5	0	1.8	0	0	0	0
IV	Work Phase																								
A	Arable Land Treatment																								
	CHIGINDE																								
i.	1) Bench terrace @Rs.20000/- per ha.	18	0	0	3.6				5				1	10		2	3			0.6					
ii.	2) Improvement existing Paddy field @Rs.4300/- per ha.	25	0	0	1.075				10				0.43	10		0.43	5			0.215					
iii.	3) Agro Horticulture @Rs.10100/-per ha.	9	0	0	0.909				3				0.303	3		0.303	3			0.303					
	DOENI	0	0	0	0																				
i.	1) Bench terrace @Rs.20000/- per ha.	18	0	0	3.6				5				1	10		2	3			0.6					
ii.	2) Improvement existing Paddy field @Rs.4300/- per ha.	25	0	0	1.075				10				0.43	10		0.43	5			0.215					
iii.	3) Agro Horticulture @Rs.10100/-per ha.	9	0	0	0.909				3				0.303	3		0.303	3			0.303					
	WALKAM	0	0	0	0																				
i.	1) Bench terrace @Rs.20000/- per ha.	18	0	0	3.6				5				1	10		2	3			0.6					
ii.	2) Improvement existing Paddy field @Rs.4300/- per ha.	25	0	0	1.075				10				0.43	10		0.43	5			0.215					
iii.	3) Agro Horticulture @Rs.10100/-per ha.	9	0	0	0.909				3				0.303	3		0.303	3			0.303					
	Sub-Total Of A	156	0	0	16.752	0	0	0	0	54	0	0	5.199	69	0	0	8.199	33	0	0	3.354	0	0	0	0

B	Non-Arable Land																										
	CHIGINDE																										
i.	1) Creation of Rubber Nursery(polybag) @Rs.25 each.	51	22950	0	5.7375					12	5400		1.35	24	10800		2.7	15	6750		1.6875						
ii.	2) Improvement existing degraded Forest. Preliminary 1st year. @Rs. 3600/- per ha.	60	0	0	2.16					10			0.36	35			1.26	15			0.54						
	DOENI	0	0	0	0																						
i.	1) Creation of Rubber Nursery(polybag) @Rs.25 each.	51	22950	0	5.7375					12	5400		1.35	24	10800		2.7	15	6750		1.6875						
ii.	2) Improvement existing degraded Forest. Preliminary 1st year. @Rs. 3600/- per ha.	60	0	0	2.16					10			0.36	35			1.26	15			0.54						
	WALKAM	0	0	0	0																						
i.	1) Creation of Rubber Nursery(polybag) @Rs.25 each.	51	22950	0	5.7375					12	5400		1.35	24	10800		2.7	15	6750		1.6875						
ii.	2) Improvement existing degraded Forest. Preliminary 1st year. @Rs. 3600/- per ha.	60	0	0	2.16					10			0.36	35			1.26	15			0.54						
	Sub-Total of B	333	68850	0	23.6925	0	0	0	0	66	16200	0	5.13	177	32400	0	11.88	90	20250	0	6.6825	0	0	0	0	0	
C	Drainage Line Treatment																										
	CHIGINDE																										
ii	Water harvesting farm pond with CC Core wall	63	3	0	4.4									25	2		2.8	38	1		1.6						
iii	Boulder Sausage	50	3	0	4									25	2		2.8	25	1		1.2						
iv	C.C Irrigation Dam	34	2	0	3									34	2		3										
v	Dugout pond	53	4	0	2.92					10	1		0.8	25	2		1.5	18	1		0.62						
	DOENI	0	0	0	0																						
i	Water harvesting farm pond with CC Core wall	25	1	0	1.6													25	1		1.6						
ii	Boulder Sausage	104	6	0	8.6					15	1		1.4	74	4		6	15	1		1.2						
2	C.C Irrigation Dam	25	1	0	1.8									25	1		1.8										
iv	Dugout pond	23	2	0	1.9435									15	1		1.4	8	1		0.5435						
v	C.C. Check Dam	20	1	0	1.2													20	1		1.2						
vi	C.C Irrigation Channel	15	1	0	3									15	1		3										
vii	Stone Masonary Protection Wall	0	0	0	0																						

	WALKAM	0	0	0	0																				
	Water harvesting farm pond with CC Core wall	22	1	0	1.5												22	1					1.5		
	Boulder Sausage	147	7	0	18.1								122	6			16.9	25	1					1.2	
	C.C Irrigation Dam	35	1	0	2.5								35	1			2.5								
	Dugout pond	35	2	0	2.192					10	1		0.971	25	1			1.221							
	C.C.C Aqueduct Irrigation channel	20	1	0	1.5								20	1			1.5								
	C.C. Check Dam	0	0	0	0																				
	C.C Irrigation Channel	40	2	0	2.1								40	2			2.1								
	Stone Masonry Protection Wall	0	0	0	0																				
	Sub-Total of C	711	38	0	60.3555	0	0	0	0	35	3	0	3.171	480	26	0	46.521	196	9	0	10.6635	0	0	0	0
		1200	68888	0	100.8	0	0	0	0	155	16203	0	13.5	726	32426	0	66.6	319	20259	0	20.7	0	0	0	0
D	Livelihood																								
	CHIGINDE																								
i	Tailoring @ Rs. 8000/- unit	0	21	0	1.68						2		0.16	9			0.72		10					0.8	
ii	Carpentry @ Rs. 5000/-unit.	0	11	0	0.55						3		0.15	5			0.25		3					0.15	
iii.	Kitchen Gardening @ Rs. 2500/- unit	0	16	0	0.4						2		0.05	4			0.1		10					0.25	
iv.	Pisciculture @ Rs. 10000/ unit	0	1	0	0.1														1					0.1	
v	Piggery/Poultry @Rs12000/- unit.	0	16	0	1.92						2		0.24	4			0.48		10					1.2	
vi	Weaving @Rs. 12500/- unit.	0	6	0	0.75									2			0.25		4					0.5	
	DOENI	0	0	0	0																				
i	Tailoring @ Rs. 8000/- unit	0	21	0	1.68						2		0.16	9			0.72		10					0.8	
ii	Carpentry @ Rs. 5000/-unit.	0	11	0	0.55						3		0.15	5			0.25		3					0.15	
iii.	Kitchen Gardening @ Rs. 2500/- unit	0	16	0	0.4						2		0.05	4			0.1		10					0.25	
iv.	Pisciculture @ Rs. 10000/ unit	0	1	0	0.1														1					0.1	
v	Piggery/Poultry @Rs. 12000/- unit.	0	16	0	1.92						2		0.24	4			0.48		10					1.2	
vi	Weaving @Rs. 12500/- unit.	0	6	0	0.75									2			0.25		4					0.5	
	WALKAM	0	0	0	0																				
i	Tailoring @ Rs. 8000/- unit	0	21	0	1.68						2		0.16	9			0.72		10					0.8	
ii	Carpentry @ Rs. 5000/-unit.	0	11	0	0.55						3		0.15	5			0.25		3					0.15	
iii.	Kitchen Gardening @ Rs. 2500/- unit	0	16	0	0.4						2		0.05	4			0.1		10					0.25	
iv.	Pisciculture @ Rs. 10000/ unit	0	1	0	0.1														1					0.1	
v	Piggery/Poultry @Rs. 12000/- unit.	0	16	0	1.92						2		0.24	4			0.48		10					1.2	
vi	Weaving @Rs. 12500/- unit.	0	6	0	0.75									2			0.25		4					0.5	
	Sub-Total of D	0	213	0	16.2	0	0	0	0	0	27	0	1.8	0	72	0	5.4	0	114	0	9	0	0	0	0

E	Production System																								
	CHIGINDE																								
i	Piggery @ Rs. 30000/- unit.	0	6	0	1.8					2		0.6		1		0.3		3		0.9					
ii	Pisciculture @ Rs. 30000/ unit	0	3	0	0.9									1		0.3		2		0.6					
iii.	Ricemill @Rs. 50000/- unit.	0	2	0	1									1		0.5		1		0.5					
iv.	Ginger Plantation @Rs.22500/- unit.	0	3	0	0.675									2		0.45		1		0.225					
v	Turmeric Plantation @Rs.12,500/- unit	0	5	0	0.625													5		0.625					
vi	Kitchen Gardening @ Rs. 25000/- unit	0	4	0	1									1		0.25		3		0.75					
vii	Power Teller @ 195000/- unit	0	0	0	0																				
	DOENI	0	0	0	0																				
i	Piggery @ Rs. 30000/- unit.	0	6	0	1.8					2		0.6		1		0.3		3		0.9					
ii	Pisciculture @ Rs. 30000/ unit	0	3	0	0.9									1		0.3		2		0.6					
iii.	Ricemill @Rs. 50000/- unit.	0	2	0	1									1		0.5		1		0.5					
iv.	Ginger Plantation @Rs.22500/- unit.	0	3	0	0.675									2		0.45		1		0.225					
v	Turmeric Plantation @Rs.12,500/- unit	0	5	0	0.625													5		0.625					
vi	Kitchen Gardening @ Rs. 25000/- unit	0	4	0	1									1		0.25		3		0.75					
vii	Power Teller @ 195000/- unit	0	0	0	0																				
	WALKAM	0	0	0	0																				
i	Piggery @ Rs. 30000/- unit.	0	6	0	1.8					2		0.6		1		0.3		3		0.9					
ii	Pisciculture @ Rs. 30000/ unit	0	3	0	0.9									1		0.3		2		0.6					
iii.	Ricemill @Rs. 50000/- unit.	0	2	0	1									1		0.5		1		0.5					
iv.	Ginger Plantation @Rs.22500/- unit.	0	3	0	0.675									2		0.45		1		0.225					
v	Turmeric Plantation @Rs.12,500/- unit	0	5	0	0.625													5		0.625					
vi	Kitchen Gardening @ Rs. 25000/- unit	0	4	0	1									1		0.25		3		0.75					
vii	Power Teller @ 195000/- unit	0	0	0	0																				
	Sub-total of E	0	69	0	18	0	0	0	0	0	6	0	1.8	0	18	0	5.4	0	45	0	10.8	0	0	0	0
	Sub-total of IV(A+B+C+D+E)	1200	69170	0	135	0	0	0	0	155	16236	0	17.1	726	32516	0	77.4	319	20418	0	40.5	0	0	0	0

IV	Consolidation Phase																								
i	Repairs, Maintenance of CPR's.	0	0	0	3.1																				3.1
ii	Improving the sustainability of various Interventions	0	0	0	1.1																				1.1
iii.	Documentation of successful experiences & Preparation of Completion Report	0	0	0	1.2																				1.2
Sub-Total of V		0	0	0	5.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.4
Grand Total (I+II+III+IV+V)		1200	69198	0	180	0	11	0	10.8	155	16243	0	25.2	726	32521	0	90	319	20423	0	48.6	0	0	0	5.4

**Convergence of NGH IWMP Project -V with NREGS
Rubber Plantation Norms for NREGS**

Location & Activities	2nd year of IWMP		1st Year of NREGS		3rd Year of IWMP		2nd Year of NREGS		4th Year of IWMP		3rd Year of NREGS		5th Year of IWMP		4th Year of NREGS		TOTAL (IWMP)		TOTAL (NREGS)	
	Phy .	Fin.	Phy .	Fin.	Phy .	Fin.	Phy .	Fin.	Phy .	Fin.	Phy .	Fin.	Phy .	Fin.	Phy .	Fin.	Phy .	Fin.	Phy .	Fin.
TAPPOLPARA																				
Creation of Rubber Nusery (Polybag) @Rs.25/- per plant.	4500	1.125			9000	2.25			6750	1.6875							20250	5.0625	0	0
Ha.	10				20				15								45	0	0	0
Preliminary 1st year plantation @Rs.15760/- per ha. (Material Component)			10	1.576			20	3.152			15	2.364					0	0	45	7.092
Preliminary & 1st Year Wage Component @Rs.51100/-				5.11				10.22				7.665					0	0	0	22.995
2nd Year Maintenace @Rs.1000/- per ha.							(M)	0.1			(M)	0.2		(M)	0.15		0	0	0	0.45
2nd Year Wage Component. @Rs.35910/-								3.591				7.182			5.3865		0	0	0	16.1595
DILMA ADAP																	0	0	0	0
Creation of Rubber Nusery (Polybag) @Rs.25/- per plant.	4500	1.125			9000	2.25			6750	1.6875							20250	5.0625	0	0
Ha.	10				20				15								45	0	0	0
Preliminary 1st year plantation @Rs.15760/- per ha. (Material Component)			10	1.576			20	3.152			15	2.364					0	0	45	7.092
Preliminary & 1st Year Wage Component @Rs.51100/-				5.11				10.22				7.665					0	0	0	22.995
2nd Year Maintenace @Rs.1000/- per ha.							(M)	0.1			(M)	0.2		(M)	0.15		0	0	0	0.45
2nd Year Wage Component. @Rs.35910/-								3.591				7.182			5.3865		0	0	0	16.1595
REKING																	0	0	0	0
Creation of Rubber Nusery (Polybag) @Rs.25/- per plant.	4500	1.125			9000	2.25			6750	1.6875							20250	5.0625	0	0
Ha.	10				20				15								45	0	0	0
Preliminary 1st year plantation @Rs.15760/- per ha. (Material Component)			10	1.576			20	3.152			15	2.364					0	0	45	7.092
Preliminary & 1st Year Wage Component @Rs.51100/-				5.11				10.22				7.665					0	0	0	22.995
2nd Year Maintenace @Rs.1000/- per ha.							(M)	0.1			(M)	0.2		(M)	0.15		0	0	0	0.45
2nd Year Wage Component. @Rs.35910/-								3.591				7.182			5.3865		0	0	0	16.1595
TOTAL OF HA.	30				60				45								135			
TOTAL OF Phy. & Fin.	13500	3.375	30	20.058	27000	6.75	60	51.189	20250	5.0625	45	52.233	0	0	0	16.6095	60750	15.1875	135	140.0895

**CONVERGENCE OF EGH - IWMP PROJECT -V WITH NREGS
MREKCHI WATERSHED, KHARKUTTA C.&R.D. BLOCK
Agro - Horti Norms for NREGS**

Sl. No.	Location & Activities	2nd Year of IWMP		1st Year of NREGS		3rd Year of IWMP		2nd Year of NREGS		4th Year of IWMP		3rd Year of NREGS		5th Year of IWMP		4th Year of NREGS		TOTAL (IWMP)		TOTAL (NREGS)	
		Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	CHIGINDE	Ha.		Ha.		Ha.		Ha.		Ha.		Ha.		Ha.		Ha.		Ha.		Ha.	
	Agro - Horti. Planting materials @Rs.10100/- per ha.	3	0.303			3	0.303			3	0.303							9	0.909	0	0
	Preliminary 1st year plantation @Rs.3900/- per ha.			3	0.117			3	0.117			3	0.117					0	0	9	0.351
	2nd Year Maintenace @Rs.2700/- per ha.							(M)	0.081			(M)	0.081			(M)	0.081	0	0	0	0.243
	DOENI																	0	0	0	0
	Agro - Horti. Planting materials @Rs.10100/- per ha.	3	0.303			3	0.303			3	0.303							9	0.909	0	0
	Preliminary 1st year plantation @Rs.3900/- per ha.			3	0.117			3	0.117			3	0.117					0	0	9	0.351
	2nd Year Maintenace @Rs.2700/- per ha.							(M)	0.081			(M)	0.081			(M)	0.081	0	0	0	0.243
	WALKAM																	0	0	0	0
	Agro - Horti. Planting materials @Rs.10100/- per ha.	3	0.303			3	0.303			3	0.303							9	0.909	0	0
	Preliminary 1st year plantation @Rs.3900/- per ha.			3	0.117			3	0.117			3	0.117					0	0	9	0.351
	2nd Year Maintenace @Rs.2700/- per ha.							(M)	0.081			(M)	0.081			(M)	0.081	0	0	0	0.243
	TOTAL	9	0.909	9	0.351	9	0.909	9	0.594	9	0.909	9	0.594	0	0	0	0.243	27	2.727	27	1.782

**Convergence of NGH IWMP Project -V with NREGS
Rubber Plantation Norms for NREGS**

Location & Activities	2nd year of IWMP		1st Year of NREGS		3rd Year of IWMP		2nd Year of NREGS		4th Year of IWMP		3rd Year of NREGS		5th Year of IWMP		4th Year of NREGS		TOTAL (IWMP)		TOTAL (NREGS)		
	Phy .	Fin.	Phy .	Fin.	Phy .	Fin.	Phy .	Fin.	Phy .	Fin.	Phy .	Fin.	Phy .	Fin.	Phy .	Fin.	Phy .	Fin.	Phy .	Fin.	
CHIGENDE																					
Creation of Rubber Nusery (Polybag) @Rs.25/- per plant.	5400	1.35			10800	2.7			6750	1.6875								22950	5.7375	0	0
Ha.	12				24				15									51	0	0	0
Preliminary 1st year plantation @Rs.15760/- per ha. (Material Component)			12	1.8912			24	3.7824			15	2.364						0	0	51	8.0376
Preliminary & 1st Year Wage Component @Rs.51100/-							12	6.132			24	12.264			15	7.665		0	0	51	26.061
2nd Year Maintenace @Rs.1000/- per ha.							(M)	0.12			(M)	0.24			(M)	0.15		0	0	0	0.51
2nd Year Wage Component. @Rs.35910/-								4.3092				8.6184				5.3865		0	0	0	18.3141
DOENI																		0	0	0	0
Creation of Rubber Nusery (Polybag) @Rs.25/- per plant.	5400	1.35			10800	2.7			6750	1.6875								22950	5.7375	0	0
Ha.	12				24				15									51	0	0	0
Preliminary 1st year plantation @Rs.15760/- per ha. (Material Component)			12	1.8912			24	3.7824			15	2.364						0	0	51	8.0376
Preliminary & 1st Year Wage Component @Rs.51100/-							12	6.132			24	12.264			15	7.665		0	0	51	26.061
2nd Year Maintenace @Rs.1000/- per ha.							(M)	0.12			(M)	0.24			(M)	0.15		0	0	0	0.51
2nd Year Wage Component. @Rs.35910/-								4.3092				8.6184				5.3865		0	0	0	18.3141
WALKAM																		0	0	0	0
Creation of Rubber Nusery (Polybag) @Rs.25/- per plant.	5400	1.35			10800	2.7			6750	1.6875								22950	5.7375	0	0
Ha.	12				24				15									51	0	0	0
Preliminary 1st year plantation @Rs.15760/- per ha. (Material Component)			12	1.8912			24	3.7824			15	2.364						0	0	51	8.0376
Preliminary & 1st Year Wage Component @Rs.51100/-							12	6.132			24	12.264			15	7.665		0	0	51	26.061
2nd Year Maintenace @Rs.1000/- per ha.							(M)	0.12			(M)	0.24			(M)	0.15		0	0	0	0.51
2nd Year Wage Component. @Rs.35910/-								4.3092				8.6184				5.3865		0	0	0	18.3141
TOTAL OF HA.	36				72				45								153				
TOTAL OF Phy. & Fin.	16200	4.05	36	5.6736	32400	8.1	108	43.0308	20250	5.0625	117	70.4592	0	0	45	39.6045	68850	17.2125	153	158.7681	

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

1	2	3		4	5	6	7				8				
Names of Projects	Year of sanction	Project duration (dd/mm/yyyy)		Area of the project to be treated (Treatable Area)	Project cost (Rs. In lakh)	Names of Micro watersheds & Code nos. (as per DoLR's unique codification)	Treatable Area (Ha.) (As per LULC)				Area details (Ha.) (falling within the projects) (As per ownership)				
		From	To				Cultivated rainfed area	Cultivated irrigated area	Uncultivated wasteland		Pvt. Agri. Land	Forest land	Community land	Others (pl. specify)	Total area (ha)
									a) Temporary fallow	b) Permanent					
NGH-IWMP-V	2013 - 2014	2013-2014	2017-2018	2200 Ha.	330 Lakh	Dilma Adap 3B1C2 and Mrekchi 3B1C1a4h	1510Ha.	.	690Ha.	-	1510ha	146ha	-	1164ha	2820 Ha.

Fund provision for the IWMP projects from all sources:

1	2		3										4
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	
NGH-IWMP-V	297 lakhs	330 lakhs	NREGS	300.6396	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	300.6396

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

1	2				3				
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.
NGH-IWMP-V	Yet to be opened	Yet to be obtained	N.A.	Chairman W.C, Secretary W.C, Project Leader / WDT	Dilma Adap Watershed Committee Mrekchi Watershed Committee	Yet to be opened	Yet to be obtained	N.A.	Chairman W.C, Secretary W.C, Project Leader / WDT

Details of Convergence of IWMP with other Schemes:

	1	2	3	4	5	6	7
Sl. No.	District	Names of projects	Names of Departments with Schemes converging with IWMP	Fund to be made available to IWMP due to convergence (Rs. in lakhs)	Name of activity/task/structure undertaken with converged funds (a) Structures (b) livelihoods (c) Any other (pl. specify)#	Reference no. of activity/task/structure in DPR@	Level at which decision for convergence was taken\$
1	North Garo Hills	NGH-IWMP-V	* Community Rural Development Department NREGS		(i) Agro - Horticulture - 27 ha (ii) Plantation of Rubber - 288ha	List of NREGS Convergence Enclosed	Block Level & District Level

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
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 ^{\$}
1	Meghalaya	NIRD (NER)	Guwahati	Director	Central Govt.	Remote Sensing, Rural Devt.
2		SIRD	Nongsder	Director	State Govt.	Capacity Building
3		RRTC	Umran	Director	Don-Bosco	Agri-Horti, Animal Husbandry, Entrepreneurship
4		ICAR	Umiam	Director	Central Govt.	-Do-
5		VTC	Kyrdem Kulai	Director	State Govt.	Animal Husbandry
6		Fruit Garden	Shillong	Director	State Govt.	Agri-Horti, Fruit Processing

- 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 2013-2014 as on 31-03-2013 (dd/mm/yyyy)*

1	2	3	4					5
Project Stakeholders	Type of Training / Capacity Building	Agency/ Institution to provide Training/ Capacity building	No. of Trainings targeted during each financial Year					Total
			2013-2014	2014-2015	2015-2016	2016-2017	2017-2018	
PIA	a) Project Management b) GIS application c) Projectization d) Entrepreneurship	a) NIRD b) SIRD c) ICAR	-	4	4	-	-	8
WDT	a) Project concept b) GIS application c) Projectization	a) NIRD b) SIRD c) PIA d) ICAR	3	-	-	3	-	6
UG	a) Asset Management	a) PIA	-	-	-	-	-	-
	2	3	4					5
SHG	a) SHG concept & management b) Entrepreneurship	a) NGOs b) PIA	-	16	20	-	-	36

WC	a) Project Concept & Management b) Natural Resource management c) Livelihood related activities d) Microenterprise & Marketing	a) PIA b) Line Department c) NGOs	8	16	-	8	-	32
GP	-	-	-	-	-	-	-	-
Community	a) Project Concept & Management b) Natural Resource management c) Livelihood related activities d) Microenterprise & Marketing	a) PIA b) Line Department c) NGOs	-	-	-	-	-	-
Others (Pl. specify)	a) Exposure visits	a) ICAR b) RRTC	4	20	-	4	-	28
Total :			15	56	24	15	-	110

Table 6.3: Information, Education & Communication (IEC) activities for the year 2013-2014 as on 31/03/2013 (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	4.6 lakh	4.6 lakh	-
2	Exposure Visits	S&WC (T) Division	4.8 lakh	4.8 lakh	-
3.	Capacity Building	S&WC (T) Division	7.1 lakh	7.1 lakh	-

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.	1) Dapbolpara															
	2) Dilma Adap															
	3) Reking															
	4) Chiginde	-	1.848	-	0.7392	1.848	-	1954	-	-	1954	-	-	-	-	-
	5) Doeni															
	6) Walkam															
	TOTAL:	-	1.848	-	0.7392	1.848	-	1954	-	-	1954	-	-	-	-	-

Table 7.2 Migration Details:

1	2	3	4	5	6	7	8	
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 7.3.1 Status of Drinking water:

1			2			3
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	
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 7.3.2 Water Use efficiency:

The over water availability in the project area will improve due to the soil and water conservation measures. Water use efficiency and management will also be better with the active involvement of the people and formation of user groups to maintain the assets created.

Table 7.4: Vegetation/ crop related outcomes:

Table 7.4.1 Details of Karif crop area and yield in the project areas:

1	2	3						4						5					
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.
NGH-IWMP-V	Paddy	-	1510	-	19.36	-	29233.6	-	-	-	-	-	-	-	-	-	-	-	-
	Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Soyabean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Yam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Ginger	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Tapioca	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Betel nut	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Betel leaf	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Black Pepper	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Oranges	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

* 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 7.4.2 Details of Rabi crop area and yield in the project areas:

1 Name of Projects	2 Name of crops	3 Pre-project						4 Mid-term						5 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.
NGH-IWMP-V	Paddy		N	I	L														
	Ginger		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 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 7.4.3 Details of Zaid crop area and yield in the project areas of the Country: State-wise:

1 Name of Projects	2 Name of crops	3 Pre-project						4 Mid-term						5 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.
NGH-IWMP-V				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 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 7.4.4 Availability of Fodder

1	2	3			4		
Name of Project	Duration of Project	Pre-Project (tones/ha)			Post-Project (tones/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
NGH-IWMP-V		N A					

Table 7.4.5 Increase/ Decrease in Forest/vegetation cover:

1	2	3			4		
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
NGH-IWMP-V	5 yrs	Statistical Report, Meghalaya	-	-	171 ha	-	171 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 7.4.6 Increase/ Decrease in area under horticulture:

1	2	3			4		
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
NGH-IWMP-V	5 yrs	-	-	-	27 ha	-	27 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 7.4.7 Increase/ Decrease in area under fuel-wood:

1	2	3			4		
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
NGH-IWMP-V	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 7.5 Livelihood related outcomes:

Table 7.5 Details of livestock in the project areas (for fluids please mention in liters, for solids please mention in kgs. and income in Rs.):

2	3	4			5			6			7
Name of Projects	Type of Animal	Pre-project			Mid-term			Post-project			Remarks
		No.	Yield	Income	No.	Yield	Income	No.	Yield	Income	
NGH-IWMP-V	Milch- animals										
	Piggery										
	Poultry										
	Apiculture in unit										
Total for all projects											

* 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 7.6 Benefit Cost Analysis

1	2	3	4	5	6	9
District	Name of project	Name of WC	Name of structure/ activity	Estimated cost (Rs.)	Expected quantifiable benefits (Rs.)	Benefit: Cost ratio#
North Garo Hills	NGH-IWMP-V	NGH-IWMP-V Watershed Committee	As per Treatment Plan	330 Lakh		1: 1.5

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

ANNEXURE - I
DETAILS OF SOCIO ECONOMIC

SOICIO ECONOMIC SURVEY OF VILLAGE DILMA A-DAP

Sl. No.	Name of Household	Population				Total	Literacy		Occupation	Land Holding in bighas		Livestock				Total
		Male		Female			Male	Female		Paddy	Orchard	No. of Cow	Goat	Poultry	Piggery	
		Adult	Minor	Adult	Minor											
1	2	3	4	5	6	7	8	9	10	11	12	11	13	14	15	16
1	Shri Charlesh Marak	2	-	2	-	4	2	-	Farmer	4	3	2	-	6	1	9
2	Shri Klorendro Marak	4	-	2	-	6	4	2	Service	10	4	4	-	4	2	10
3	Shri Brightning Marak	4	-	1	-	5	3	1	Farmer	5	5	2	-	2	-	4
4	Smt Regia Marak	2	-	2	1	5	1	1	Farmer	-	2	1	-	-	-	1
5	Shri Winderson Momin	2	-	2	1	5	2	1	Farmer	-	2	1	-	-	-	1
6	Shri Withden Marak	2	-	3	1	6	3	2	Farmer	3	3	2	-	7	-	9
7	Shri Redensing Marak	4	1	3	1	9	2	2	Farmer	-	2	1	-	5	-	6
8	Shri Talgen Sangma	2	-	3	1	6	1	1	Farmer	-	3	2	-	6	1	9
9	Shri HappygreenMarak	-	-	4	1	5	3	1	Farmer	-	4	1	-	4	-	5
10	Shri Hitler Marak	2	-	3	-	5	1	2	Farmer	-	3	2	-	5	-	7
11	Shri Tenlio Marak	3	3	2	1	9	3	1	Farmer	-	2	1	-	-	-	1
12	Shri Maxwell Momin	3	2	3	2	10	4	1	Service	-	4	1	2	6	2	11
13	Shri Kennedy Marak	2	1	2	1	6	3	1	Service	-	5	2	4	10	2	18
14	Shri Pilash Marak	2	1	3	-	6	1	1	Farmer	-	2	2	-	4	-	6
15	Shri Horbesh Sangma	2	1	2	1	6	1	2	Farmer	4	3	2	-	5	-	7
16	Smt Kronolish Marak	2	3	4	2	11	2	2	Farmer	10	4	3	-	7	-	10
17	Shri Mohendro Momin	2	3	3	2	10	3	-	Farmer	5	3	3	-	8	1	12
18	Shri Kreteng Marak	3	1	2	-	6	2	-	Farmer	1.5	2	-	-	4	1	5
19	Shri Abinash Sangma	1	2	2	4	9	2	2	Farmer	10	4	4	-	6	1	11
20	Shri Drihin Marak	2	1	1	-	4	2	1	Farmer	3	2	2	-	5	1	8
21	Shri Hasing Marak	2	-	2	3	7	1	1	Farmer	8	3	3	-	9	-	12
22	Shri Columbush Marak	4	1	3	1	9	3	1	Farmer	6	5	4	-	8	-	12
23	Shri Mikilson Sangma	2	-	3	-	5	-	2	Farmer	4	2	2	2	5	1	10
24	Shri Lenash Sangma	2	2	3	2	9	1	1	Farmer	8	4	4	1	4	1	10
25	Shri Lemerich Sangma	2	-	4	2	8	2	2	Service	15	5	7	3	10	-	20
26	Shri Bablu Sangma	1	2	1	1	5	1	1	Farmer	5	3	2	-	2	-	4
27	Shri Lingston Momin	4	3	3	1	11	-	2	Farmer	6	4	4	-	7	-	11
28	Shri Manash Momin	3	3	4	3	13	2	-	Farmer	8	3	2	-	6	-	8
29	Shri Teman Momin	3	-	2	1	6	1	-	Farmer	7	2	3	-	8	-	11
30	Shri Sengim Momin	2	1	3	2	8	1	1	Farmer	6	4	4	-	2	1	7
31	Shri Echarstar Momin	3	-	2	1	6	2	1	Farmer	10	5	4	-	7	1	12
32	Shri Holjenath Marak	1	1	1	-	3	2	1	Farmer	5	2	2	-	8	1	11

1	2	3	4	5	6	7	8	9	10	11	12	11	13	14	15	16
33	Shri Kredish Momin	1	1	1	1	4	2	1	Farmer	8	3	3	-	4	1	8
34	Shri Arjinath Marak	4	3	3	2	12	1	2	Farmer	12	4	4	-	3	-	7
35	Shri Herickson Momin	3	3	2	2	10	1	2	Farmer	6	4	2	-	5	-	7
36	Shri Steforth Marak	2	1	2	-	5	-	2	Farmer	-	2	-	-	6	-	6
37	Shri Layninggreat Momin	2	1	3	1	7	3	2	Service	-	4	-	-	9	2	11
38	Shri Rapel Marak	2	3	1	1	7	2	1	Service	-	5	-	-	10	1	11
39	Shri Monu Sangma	1	1	1	1	4	1	1	Farmer	-	2	-	-	-	-	
40	Shri Sutil Marak	1	-	1	-	2	1	-	Farmer	-	2	-	-	-	-	
41	Shri Pollen Momin	2	-	3	-	5	1		Farmer	-	3	1	-	-	-	1
42	Shri Witna Marak	1	1	1	-	3	1	-	Farmer	-	4	1	-	4	1	6
43	Shri Pinder Marak	3	3	3	2	11	2	2	Farmer	-	2	-	-	2	1	3
44	Shri Atlash Marak	1	2	2	-	5	2	1	Farmer	-	3	1	-	6	1	8
45	Shri Mengolsing Marak	4	4	2	1	11	-	-	Farmer	7	3	4	-	4	1	9
46	Shri Kollen Momin	1	1	1	1	4	-	-	Farmer	-	2	-	-	5	-	5
47	Shri Jibar Marak	1	2	1	-	4	-	-	Farmer	-	3	-	-	-	-	
48	Shri Ganga Sangma	1	2	1	2	6	1	1	Farmer	-	2	-	-	-	-	
49	Shri Kren Marak	3	2	1	2	8	1	2	Farmer	8	4	4	-	6	-	10
50	Shri Dentin Sangma	2	3	4	3	12	2	1	Farmer	5	3	2	-	8	1	11
51	Shri Jeseng Sangma	1	4	3	2	10	2	2	Farmer	-	2	-	-	4	-	4
52	Shri Salsang Momin	1	1	1	-	3	1	1	Farmer	3	2	1	-	-	-	1
53	Shri Geresh Sangma	1	1	2	-	4	1	1	Farmer	2	3	2	-	-	-	2
54	Shri Krealson Marak	2	2	1	-	5	2	2	Service	2	4	1	-	12	1	14
55	Shri Ethiar Sangma	2	4	2	-	8	1	1	Farmer	-	3	-	-	6	-	6
56	Shri Dimash Marak	2	1	1	-	4	-	2	Farmer	6	3	2	-	-	-	2
57	Shri Nickoban Sangma	2	1	2	1	6	-	1	Farmer	-	4	-	-	4	-	4
58	Shri Marthin Marak	2	1	2	2	7	3	2	Service	-	5	-	4	10	1	15
59	Shri Paisial Sangma	2	1	1	-	4	1	1	Farmer	-	3	-	-	2	-	2
	GRAND TOTAL	125	81	128	60	394	93	68		202.5	188	107	16	280	28	431

SOCIO ECONOMIC SURVEY OF VILLAGE DAPOLPARA

SL. No.	Name of the head of the family	Population				Total	Literacy		Occupation	Land holding in bighas		Livestock				Total
		Male		Female			Male	Female		Paddy	Orchard	Cow	Pig	Goat	Poultry	
		Adult	Minor	Adult	Minor											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	Shri Roctobin Marak	1	-	3	-	4	1	-	Farmer	7	3	2	1	-	4	7
2	Shri Pogesol Marak	2	1	1	-	4	1	-	Farmer	4	2	3	-	-	6	9
3	Shri Clever Momin	1	-	1	1	3	1	-	Farmer	2	1	4	-	-	7	11
4	Shri Pebenda Marak	2	-	4	-	6	2	1	Farmer	3	4	2	1	-	4	7
5	Shri Presingtang Sangma	1	1	1	-	3	2	1	Farmer	5	3	3	-	-	6	9
6	Shri Jogesh Momin	1	2	2	1	6	1	-	Farmer	3	1	2	1	-	7	10
7	Shri Biwlen Momin	3	1	2	-	6	2	-	Farmer	5	4	4	1	-	10	15
8	Shri Elwen Momin	1	-	1	-	2	-	-	Farmer	4	2	2	1	-	5	8
9	Shri Predich Marak	2	3	1	-	6	-	2	Farmer	5	3	4	-	-	6	10
10	Shri Jangman Sangma	1	-	1	1	3	-	1	Farmer	3	2	2	1	-	8	11
11	Shri Dote Marak	1	-	1	2	4	2	1	Farmer	3	2	2	1	-	9	12
12	Shri Lelsen Sangma	1	-	1	-	2	3	1	Farmer	4	4	3	1	-	6	10
13	Shri Appleton Sangma	4	1	2	-	7	3	-	Farmer	6	3	4	1	-	4	9
14	Shri Greater Marak	1	-	1	2	4	-	2	Farmer	5	4	4	1	-	2	7
15	Shri Propin Marak	2	1	1	-	4	2	2	Farmer	4	3	2	-	-	7	9
16	Shri Sokgle Momin	3	1	1	1	6	2	1	Farmer	9	4	5	-	-	8	13
17	Shri Gunjin Sangma	2	-	1	-	3	1	1	Farmer	5	3	2	-	-	3	5
18	Shri Bijoy Marak	3	1	2	-	6	3	2	Service	8	5	4	1	4	15	24
19	Shri Entil Sangma	5	1	2	-	8	2	-	Farmer	7	3	3	-	-	6	9
20	Shri Brenting Momin	3	2	1	-	6	2	-	Farmer	4	2	2	1	-	8	11
21	Shri Ranich Marak	1	1	1	1	4	-	1	Farmer	3	1	2	1	-	6	9
22	Shri Tulash Sangma	1	1	1	1	4	-	2	Farmer	4	1	2	-	-	9	11
23	Shri Sallin Sangma	4	1	2	1	8	1	1	Farmer	7	3	4	1	-	8	13

24	Shri Sutin Sangma	1	1	1	2	5	1	-	Farmer	6	2	3	1	-	7	11
25	Shri Shin Momin	3	-	3	1	7	1	-	Farmer	5	4	2	-	-	6	8
26	Shri Wanpil Sangma	4	1	2	1	8	-	-	Farmer	6	3	2	-	-	10	12
27	Shri Dani Sangma	1	1	2	-	4	-	1	Farmer	5	3	-	-	-	12	12
28	Shri Piret Momin	1	-	2	1	4	-	2	Farmer	5	4	-	-	-	6	6
29	Shri Arlington Marak	3	-	2	1	6	-	2	Farmer	3	1	1	1	-	8	10
30	Shri Belting Marak	2	1	3	1	7	2	1	Farmer	4	2	2	1	-	4	7
31	Shri Nam Sangma	1	-	2	1	4	1	1	Farmer	3	1	1	-	-	7	8
32	Shri Rakesh Sangma	1	-	1	1	3	1	1	Farmer	4	2	2	1	-	6	9
33	Shri Lipson Marak	2	1	1	-	4	2-	1	Farmer	5	3	2	1	-	4	7
34	Smt Sanu Sangma	-	1	1	-	2	-	1	Farmer	3	1	-	-	-	5	5
35	Smt Jebiha Sangma	-	1	1	-	2	-	2	Farmer	3	1	1	1	-	8	10
36	Shri Marcus Sangma	1	2	1	-	4	1	2-	Farmer	4	2	2	1	-	10	13
37	Shri Waibi Sangma	2	1	1	3	7	2	-	Farmer	5	3	2	-	-	6	8
38	Shri Trimit Marak	2	1	3	1	7	-	-	Farmer	5	2	2	-	-	5	7
39	Shri Dinesh Marak	2	2	2	-	6	-	1	Farmer	7	4	4	-	-	4	8
40	Smt Sokila Marak	1	1	2	1	5	2	1	Farmer	6	3	2	1	-	9	12
41	Shri Mikgle Momin	1	2	2	1	6	1	2	Farmer	5	2	2	1	-	11	14
42	Shri Raju Marak	1	3	2	2	8	1	2	Farmer	5	3	3	1	-	10	14
43	Shri Sengbin Sangma	1	1	1	1	4	2	2	Farmer	4	2	2	1	-	6	9
44	Shri Iakan Momin	1	1	1	-	3	-	2	Farmer	5	3	3	1	-	4	8
45	Shri Metden Sangma	1	1	2	2	6	-	1	Farmer	6	3	2	-	-	6	8
46	Shri Binder Sangma	1	2	1	1	5	-	1	Farmer	5	2	3	1	-	8	12
47	Shri Helich Momin	1	1	1	2	5	2	2	Farmer	6	4	4	1	-	4	9
48	Shri Lowing Marak	2	3	1	1	7	2	-	Farmer	6	3	2	-	-	10	12
49	Shri Betmington Sangma	1	2	2	1	6	1	-	Farmer	5	2	3	1	-	8	12
50	Shri Binson Marak	1	-	2	3	6	1	2	Farmer	6	2	4	1	-	7	12
51	Shri Agi Marak	1	1	1	1	4	1	1	Farmer	5	2	2	-	-	6	8
52	Shri Sperial Marak	2	3	1	-	6	2	1	Farmer	6	3	4	-	-	5	9

53	Shri Stepend Marak	2	2	1	3	8	2	2	Service	7	4	5	1	2	15	23
54	Shri Wihhel Marak	3	-	2	-	5	1	2	Farmer	6	3	2	-	-	4	6
55	Shri Denison Marak	2	-	2	-	4	-	1	Farmer	7	4	4	-	-	6	10
56	Shri Ranesh Marak	3	1	2	1	7	-	1	Farmer	7	3	4	-	-	4	8
57	Shri Lentinish Momin	-	1	2	1	4	-	-	Farmer	5	2	2	-	-	3	5
58	Shri Baljen Momin	1	-	1	-	2	1	-	Farmer	7	3	4	1	-	5	10
59	Shri Prodip Marak	2	4	1	2	9	1	1	Farmer	5	2	2	1	-	7	10
60	Shri Radan Marak	3	-	3	-	6	1	1	Farmer	6	3	3	1	-	8	12
61	Shri Ston Marak	1	1	1	3	6	1	1	Farmer	5	4	2	-	-	6	8
62	Shri Minten Marak	1	3	2	3	9	2	1	Farmer	4	1	2	-	-	4	6
63	Shri Sunjith Momin	1	-	1	1	3	1	-	Farmer	4	2	2	1	-	5	8
64	Shri Luna Marak	1	2	1	1	5	1	-	Farmer	4	3	2	-	-	6	8
	Grand Total	107	66	100	55	328	66	59		320	169	163	35	6	429	633

SOICIO ECONOMIC SURVEY OF VILLAGE REKING

Sl. No.	Name of Household	Population				Total	Literacy		Occupation	Land Holding in bighas		Livestock				Total
		Male		Female			Male	Female		Paddy	Orchard	Cow	Pig	Goat	Poultry	
		Adult	Minor	Adult	Minor											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	Shri Hechen Momin	1	-	1	2	4	-	-	Farmer	1	2	2	1	-	4	7
2	Shri Nevel Momin	1	-	2	-	3	-	-	Farmer	3	2	2	1	-	5	8
3	Shri Jekil Marak	1	1	1	-	3	1	-	Farmer	-	1	2	2	-	6	10
4	Shri Kreding Marak	1	2	1	2	6	2	1	Farmer	1	3	-	-	-	10	10
5	Shri Ruji Marak	2	-	2	1	5	1	-	Farmer	2	2	-	-	-	12	12
6	Shri Benting Momin	2	-	1	1	4	-	-	Service	1.5	3	2	-	-	8	10
7	Shri Tindat Sangma	2	-	2	1	5	1	-	Service	3	5	4	-	-	7	11
8	Shri Brush Momin	1	2	1	1	5	-	1	Farmer	1	2	2	2	-	15	19
9	Shri Nendul Marak	1	1	1	-	3	-	-	Farmer	-	1	-	-	-	4	4
10	Shri Rimbas Marak	1	1	1	1	4	-	-	Farmer	0.5	1	-	-	-	6	6
11	Shri Redini Marak	3	1	1	1	6	1	1	Farmer	0.5	1	-	-	-	5	5
12	Shri Borua Marak	1	-	1	1	3	1	1	Farmer	-	2	-	-	-	2	2
13	Smt. Irim Marak	-	-	1	1	2	-	-	Service	-	3	2	1	-	10	13
14	Shri Nial Sangma	1	1	2	1	5	2	1	Farmer	-	5	-	-	-	8	8
15	Shri Michel Marak	1	2	1	2	6	3	1	Farmer	1	2	2	-	-	4	6
16	Shri Bening Sangma	1	3	1	-	5	1	1	Farmer	-	3	-	-	-	10	10
17	Shri Janal Marak	1	3	1	-	5	1	1	Service	5	6	6	2	-	6	14
18	Shri Silnam Momin	1	1	1	2	5	1	1	Farmer	-	2	-	-	-	7	7
19	Shri Gilnan Marak	1	1	1	1	4	1	1	Farmer	-	2	-	-	-	9	9
20	Shri Etwin Momin	1	2	1	2	6	2	2	Farmer	-	4	-	1	-	4	5
21	Shri Ekan Marak	1	2	1	-	4	2	-	Farmer	-	3	2	1	-	6	9
22	Shri Winson Sangma	1	2	1	2	6	1	3	Service	1	4	-	1	-	7	8

23	Shri Waibing Marak	1	-	2	1	4	1	-	Farmer	-	2	-	-	-	6	6
24	Shri Akindro Sangma	1	-	1	-	2	-	-	Farmer	-	3	-	-	-	4	4
25	Shri Godwin Sangma	3	-	3	3	9	3	4	Service	5	4	4	2	-	5	11
26	Shri Seljam Sangma	2	1	2	1	6	3	2	Farmer	16	6	6	-	-	8	14
27	Shri Samton Momin	1	-	1	1	3	-	-	Farmer	1.5	2	1	-	-	3	4
28	Shri Deliat Momin	5	-	4	2	11	-	-	Farmer	2	3	2	1	-	7	10
29	Shri Sevington Sangma	2	1	2	1	6	3	3	Farmer	-	2	-	-	-	6	6
30	Shri Enden Marak	2	1	3	1	7	3	2	Service	4	6	2	2	-	15	19
31	Shri Merilson Sangma	2	1	1	1	5	2	1	Farmer	8	4	4	-	-	4	8
32	Shri Roken Sangma	1	-	2	1	4	1	-	Farmer	-	2	-	-	-	6	6
33	Shri Sangsil Marak	1	1	1	1	4	1	1	Farmer	-	3	-	-	-	7	7
34	Shri Kendura Marak	2	1	2	1	6	3	1	Farmer	-	2	-	-	-	9	9
35	Shri Nihat Momin	3	-	3	1	7	2	2	Farmer	4	4	2	1	-	10	13
36	Shri Hedick Marak	1	1	2	1	5	1	2	Farmer	1	4	1	-	-	11	12
37	Shri Tenington Momin	3	-	1	1	5	1	2	Farmer	5	3	4	-	-	5	9
38	Shri Kristabin Sangma	1	1	1	2	5	1	2	Service	-	10	2	2	-	20	24
39	Shri Sengbath Sangma	2	1	1	1	5	2	1	Farmer	5	4	2	-	-	10	12
40	Shri Elison Marak	2	3	2	2	9	3	3	Farmer	4	2	2	-	-	8	10
41	Shri Santura Marak	1	-	2	1	4	1	1	Farmer	7	3	4	-	-	4	8
42	Shri Lenedin Sangma	2	2	3	2	9	2	3	Farmer	5	4	3	1	-	7	11
43	Shri Ovalson Marak	1	3	1	2	7	2	1	Farmer	-	2	0	-	-	8	8
44	Shri Beling Sangma	3	2	2	2	9	3	3	Farmer	-	2	1	-	-	9	10
45	Shri Tonalson Marak	3	2	3	2	10	4	4	Farmer	7	3	4	1	-	-	5
46	Shri Hetten Marak	2	1	2	-	5	2	1	Farmer	3	1	2	-	-	6	8
47	Shri Anal Marak	1	2	1	2	6	1	1	Service	1	3	-	-	-	4	4
48	Smt. Sabetry Marak	-	-	1	1	2	-	-	Farmer	3	2	2	-	-	5	7
49	Shri Hajen Marak	1	-	1	2	4	-	-	Farmer	-	1	-	-	-	10	10
50	Shri Bebejes sangma	1	2	1	2	6	1	1	Service	-	3	-	1	-	7	8
51	Shri Bapish Sangma	1	1	2	1	5	-	2	Farmer	3	2	2	1	-	2	5
52	Shri Atdon Sangma	1	1	1	1	4	1	1	Farmer	2	2	1	1	-	5	7

53	Shri Sopiul sangma	4	2	2	2	10	3	3	Farmer	8	4	4	1	-	6	11
54	Shri Wikhilson Sangma	3	3	2	2	10	2	4	Farmer	8	5	5	-	-	9	14
55	Shri Saman Sangma	1	-	1	2	4	1	1	Farmer	-	2	1	2	-	10	13
56	Shri Prinjal Marak	1	2	1	3	7	2	2	Service	-	2	1	-	-	12	13
57	Shri Malkan Momin	1	2	1	2	6	3	1	Farmer	-	3	-	1	-	13	14
58	Shri Withing Marak	1	2	2	-	5	1	1	Farmer	-	3	2	1	-	2	5
59	Shri Mareng Marak	1	-	2	2	5	1	2	Farmer	2.5	4	2	1	-	-	3
60	Smt. Somitha sangma	-	1	1	1	3	-	1	Farmer	-	2	1	1	-	5	7
61	Shri Piobin Marak	1	1	1	2	5	1	1	Farmer	4	3	2	1	-	-	3
62	Shri Robline Marak	1	2	1	1	5	1	1	Farmer	-	2	-	1	-	7	8
63	Smt. Anonty sangma	-	1	1	3	5	1	1	Farmer	-	2	2	-	-	-	2
64	Shri Boington Sangma	2	1	2	1	6	2	1	Farmer	5	3	4	-	-	-	4
65	Shri Mahal Sangma	2	1	2	-	5	1	1	Farmer	-	2	-	-	-	4-	
66	Shri Brendal sangma	3	1	1	2	7	1	1	Service	-	4	2	2	-	10	14
67	Shri Bothu Sangma	1	-	1	-	2	-	-	Farmer	4	3	2	2	-	5	9
68	Shri Utcho Momin	1	1	1	-	3	-	-	Farmer	-	2	1	1	-	-	2
69	Shri Goljison Marak	3	1	3	3	10	3	2	Service	7	4	6	2	-	15	23
70	Shri Levingstone Marak	1	2	2	1	6	2	2	Farmer	9	3	4	-	-	8	12
71	Shri Belason Sangma	2	-	2	1	5	1	1	Farmer	10	5	6	-	-	9	15
72	Shri Chaleckson Marak	1	-	2	1	4	1	1	Farmer	5	4	3	1	-	10	14
73	shri Bongsu Momin	2	2	2	1	7	2	2	Farmer	-	3	4	1	-	-	5
74	Shri Modin Marak	4	-	4	1	9	2	2	Farmer	-	3	4	1	10	7	22
75	Shri Dillp Sangma	3	1	2	1	7	1	2	Service	14	8	6	2	-	14	22
	Grand Total	122	86	127	104	439	108	100		186	245	146	52	10	550	758

SOCIO ECONOMIC SURVEY OF VILLAGE CHIGINDE

SL. No.	Name of the head of the family	Population				Total	Literacy		Occupation	Land holding in bighas		Livestock				Total
		Male		Female			Male	Female		Paddy	Orchard	Cow	Pig	Goat	Poultry	
		Adult	Minor	Adult	Minor											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	Shri Sorgos Marak	1	1	2	2	6	1	2	Farmer	12	2	3	1	-	4	
2	Shri Tilgas Sangma	1	1	1	2	5	1	1	Farmer	7	2	2	-	-	2	
3	Shri Jose Marak	1	2	1	-	4	1	1	Farmer	7	3	2	-	-	3	
4	Shri Kinik Marak	2	1	3	4	10	2	1	Farmer	5	4	2	2	-	4	
5	Shri Lapping Marak	1	2	2	2	7	1	2	Farmer	6	2	2	-	-	2	
6	Shri Lovingston Sangma	2	-	1	1	4	2	1	Farmer	15	4	4	-	-	5	
7	Shri Jaekius Marak	3	5	1	-	9	2	1	Farmer	4	3	2	-	-	8	
8	Shri Francish Sangma	3	4	4	-	11	3	2	Farmer	7	2	2	2	-	4	
9	Shri Gadwin Sangma	1	1	3	1	6	1	2	Farmer	4	4	3	1	-	2	
10	Shri Burut Sangma	1	2	1	-	4	1	1	Farmer	3	3	2	1	-	2	
11	Smt Naloni Marak	-	-	2	2	4	-	2	Farmer	3	6	2	-	-	2	
12	Shri Pokil Sangma	3	-	2	-	5	2	1	Farmer	6	2	2	-	-	5	
13	Shri Clearson Marak	3	1	2	1	7	2	2	Farmer	5	3	4	-	-	6	
14	Shri Terak Sangma	2	3	2	2	9	1	2	Farmer	8	4	4	-	-	4	
15	Smt Susilla Marak	-	1	4	-	5	-	2	Farmer	9	6	4	-	-	6	
16	Shri Prijesh Marak	1	-	1	4	6	1	1	Farmer	5	3	2	1	-	3	
17	Shri Eno Marak	2	3	2	1	8	1	2	Farmer	12	5	5	-	-	7	
18	Smt Prenina Marak	2	-	1	2	5	2	1	Farmer	10	4	5	2	-	10	
19	Shri Remon Sangma	2	-	1	-	3	2	1	Farmer	10	4	5	-	-	4	
20	Shri Lingbart Marak	4	1	3	1	9	2	2	Farmer	12	8	4	1	-	2	
21	Shri Benedick Sangma	1	1	1	-	3	1	1	Farmer	3	2	2	-	-	5	

22	Shri Lorence Sangma	1	2	1	-	4	1	1	Farmer	3	2	-	-	-	-	
23	Shri Jem Sangma	3	2	2	1	8	1	1	Farmer	8	4	2	1	-	2	
24	Shri Krenal Marak	2	2	1	4	9	1	-	Farmer	3	2	2	-	-	3	
25	Shri Meken Sangma	4	2	2	2	10	2	1	Farmer	7	3	2	-	-	2	
26	Shri Rillar Sangma	1	2	3	2	8	1	2	Farmer	6	5	3	-	-	4	
27	Shri Lapbing Sangma	2	3	2	2	9	2	2	Service	5	3	2	-	-	6	
28	Shri Witharson Marak	2	1	4	-	7	1	2	Farmer	8	7	5	2	-	2	
29	Smt Sentri Sangma	1	2	1	3	7	1	1	Farmer	4	3	2	-	-	3	
30	Shri Handrew Marak	1	2	1	1	5	1	1	Farmer	7	2	2	-	-	4	
31	Shri Bukar Sangma	3	2	1	-	6	2	1	Farmer	6	4	2	-	-	10	
32	Shri Mondison Marak	2	-	3	1	6	2	2	Farmer	4	3	3	1	-	6	
33	Shri Jackius Sangma	1	3	1	1	6	1	1	Farmer	3	2	2	-	-	4	
34	Shri Saijo Sangma	2	2	2	3	9	2	2	Farmer	4	4	2	-	-	5	
35	Smt Terina Sangma	-	1	1	1	3	-	1	Farmer	3	2	1	-	-	3	
36	Shri Blaren Marak	1	3	1	-	5	1	1	Farmer	5	3	2	-	-	7	
37	Shri Witten Sangma	1	1	1	-	3	1	1	Farmer	3	2	1	2	-	8	
38	Shri Terisut Marak	1	3	1	2	7	1	1	Farmer	7	4	3	-	-	2	
39	Shri Willingson Marak	2	-	2	-	4	1	2	Farmer	5	3	2	1	-	-	
40	Shri Getil Sangma	1	2	2	1	6	1	1	Farmer	4	2	1	-	-	6	
41	Shri Maljan Sangma	2	1	1	1	5	1	1	Farmer	6	3	2	-	-	4	
42	Shri Balnabas Sangma	1	-	1	-	2	1	1	Farmer	3	2	4	1	-	3	
43	Shri Henwart Marak	1	2	1	2	6	1	1	Farmer	4	2	2	-	-	5	
44	Smti Rutina Marak	1	1	1	-	3	1	1	Farmer	3	2	1	-	-	6	
45	Shri Austin Marak	1	2	2	1	6	1	1	Farmer	6	4	2	1	-	6	
	Grand Total	73	70	78	53	274	57	60	0	270	149	113	20	0	191	0

SOCIO ECONOMIC SURVEY OF VILLAGE DOENI

SL. No.	Name of the head of the family	Population				Total	Literacy		Occupation	Land holding in bighas		Livestock				Total
		Male		Female			Male	Female		Paddy	Orchard	Cow	Pig	Goat	Poultry	
		Adult	Minor	Adult	Minor											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	Shri Bendigreat A. Sangma	1	5	1	1	8	6	2	Farmer	4	5	2	3	-	6	
2	Shri Jastin A. Sangma	1	1	1	1	4	2	2	Farmer	5	6	2	1	-	4	
3	Shri Levison Sangma	3	4	3	2	12	7	5	Farmer	10	3	4	4	-	3	
4	Shri Lettun Marak	2	2	2	1	7	4	3	Farmer	8	5	2	2	-	10	
5	Shri Betchush Marak	1	-	2	2	5	1	4	Farmer	12	4	4	3	-	5	
6	Shri Rapel A. Sangma	1	4	1	-	6	5	1	Farmer	5	2	2	1	-	7	
7	Shri Poulin Sangma	-	1	1	1	3	1	2	Farmer	2	3	-	2	-	6	
8	Shri Pitor Marak	4	-	2	-	6	4	2	Farmer	14	8	4	2	-	2	
9	Shri Beronath Momin	3	4	2	1	10	7	3	Farmer	10	5	4	2	-	3	
10	Shri Withenson Marak	3	1	1	3	8	4	4	Farmer	9	4	2	3	-	5	
11	Shri Marthin Marak	1	-	1	-	2	1	1	Farmer	4	-	2	1	-	4	
12	Shri Lingson Sangma	2	-	3	-	5	2	3		12	5	4	4	-	7	
13	Shri Pillar Sangma	1	3	1	-	5	4	1	Farmer	7	3	2	1	-	6	
14	Shri Dominick Sangma	1	-	-	3	4	1	3	Farmer	3	4	-	2	-	3	
15	Shri Barmithon Sangma	2	-	1	1	4	2	2	Farmer	6	2	2	1	-	4	
16	Shri Kansethen Marak	3	1	1	-	5	4	1	Farmer	10	6	4	2	-	6	
17	Shri Sevion Marak	1	1	1	-	3	2	1	Farmer	3	2	-	3	-	4	
18	Shri Genderson Sangma	4	-	3	2	9	4	5	Farmer	11	7	4	2	-	7	
19	Shri Greatmen Marak	1	-	3	2	6	1	5	Farmer	8	5	2	2	-	3	
20	Shri John Marak	1	1	1	1	4	2	2	Farmer	7	3	2	1	-	5	
21	Shri Ethin Marak	1	2	1	2	6	3	3	Farmer	5	4	2	1	-	6	

22	Shri Sorgos Marak	2	1	1	2	6	1	1	Farmer	2	5	1	2	-	4	
23	Shri Tilgas Sangma	3	2	-	1	6	2	1	Farmer	3	7	2	1	-	2	
24	Shri Jose Marak	2	1	1	1	5	1	1	Farmer	1	6	-	2	-	3	
25	Shri Kinik Marak	3	2	1	-	6	2	1	Farmer	1	4	-	1	-	4	
26	Shri Lapping Marak	1	1	1	1	4	1	1	Farmer	1	8	-	2	-	5	
27	Shri Lovingston Sangma	1	-	1	1	3	1	-	Service	3	6	2	3	-	4	
28	Shri Jackius Marak	2	1	1	-	4	1	1	Farmer	-	4	-	2	-	-	
29	Shri Francish Sangma	1	1	1	1	4	1	1	Farmer	1	3	-	3	-	-	
30	Shri Godwin Sangma	2	1	1	-	4	2	1	Farmer	-	2	-	-	-	2	
31	Shri Burut Sangma	1	1	1	1	4	1	1	Farmer	1	3	-	-	-	3	
32	Smt Naloni Marak	-	1	1	1	3	-	1	Farmer	-	2	-	-	-	2	
33	Shri Pokil Sangma	2	1	1	-	4	2	1	Farmer	1	3	-	2	-	5	
34	Shri Clearson Marak	3	1	1	1	6	2	1	Farmer	2	4	1	-	-	6	
35	Shri Terak Sangma	-	1	1	2	4	-	1	Farmer	1	3	-	-	-	4	
36	Smt Susilla Marak	-	-	1	2	3	-	1	Farmer	1	2	-	-	-	2	
37	Shri Prejesh Marak	3	2	1	1	7	3	1	Farmer	-	4	-	2	-	4	
38	Shri Eno Marak	-	1	2	-	3	-	2	Farmer	-	-	-	1	-	3	
39	Smt Prenina Marak	-	1	2	1	4	-	2	Farmer	-	-	-	1	-	4	
40	Shri Remon Sangma	2	1	2	1	6	1	2	Farmer	2	5	1	2	-	8	
41	Shri Lingbart Marak	1	2	1	1	5	1	1	Farmer	-	2	-	-	-	-	
42	Shri Benedick Sangma	3	-	2	1	6	3	1	Farmer	1	3	-	1	-	5	
43	Shri Jem Sangma	1	1	1	-	3	1	1	Farmer	-	3	-	2	-	3	
44	Shri Krenal Marak	2	1	1	1	5	1	1	Farmer	1	3	-	1	-	4	
45	Shri Meken Sangma	3	-	2	1	6	2	1	Farmer	2	2	2	2	-	4	
46	Shri Rillar Sangma	2	1	1	1	5	1	1	Farmer	2	4	2	1	-	3	
47	Shri Lapbing Sangma	3	1	2	1	7	2	2	Farmer	3	5	2	1	-	5	
48	Shri Witharson Marak	2	-	2	2	6	2	1	Farmer	1	6	-	1	-	6	
49	Smt Sentri Sangma	1	1	1	1	4	1	1	Farmer	-	4	-	-	-	2	
50	Shri Handrew Marak	2	1	1	2	6	2	1	Farmer	-	3	-	-	-	4	

51	Shri Bukar Sangma	2	-	2	1	5	2	2	Farmer	-	7	-	-	-	5	
52	Shri Mondison Marak	3	-	2	1	6	3	2	Farmer	-	2	-	-	-	8	
53	Shri Saijo Sangma	-	-	2	2	4	-	2	Farmer	2	3	2	1	-	10	
54	Smt Terina Sangma	-	2	1	-	3	-	1	Farmer	-	2	-	1	-	-	
55	Shri Blaren Marak	3	-	2	1	6	3	2	Farmer	3	3	2	-	-	5	
56	Shri Witten Sangma	2	1	1	1	5	2	1	Farmer	-	2	-	-	-	4	
57	Shri Terisut Marak	1	1	1	-	3	1	1	Farmer	4	2	2	1	-	2	
58	Shri Willingson Marak	2	1	2	-	5	2	2	Farmer	-	2	-	-	-	4	
59	Shri Getil Sangma	-	1	2	-	3	-	2	Farmer	-	1	-	-	-	3	
60	Shri Maljan Sangma	3	-	2	1	6	3	2	Farmer	-	3	-	-	-	6	
61	Shri Balnabas Sangma	2	1	1	1	5	2	1	Farmer	-	2	-	-	-	2	
62	Shri Henwart Marak	2	-	1	1	4	2	1	Farmer	1	2	-	1	-	3	
63	Smti Rutina Marak	-	1	1	1	3	-	1	Farmer	-	3	-	1	-	-	
64	Shri Austin Marak	2	1	1	1	4	2	1	Farmer	2	1	-	-	-	4	
	Grand Total	107	67	88	62	323	126	108	0	197	227	69	81	0	263	0

SOCIO ECONOMIC SURVEY OF VILLAGE CHIGINDE

SL. No.	Name of the head of the family	Population				Total	Literacy		Occupation	Land holding in bighas		Livestock				Total
		Male		Female			Male	Female		Paddy	Orchard	Cow	Pig	Goat	Poultry	
		Adult	Minor	Adult	Minor											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	Shri Giljan Sangma	2	4	1	2	9	1	1	Farmer	5	3	2	1	-	2	
2	Shri Lodik Sangma	2	-	1	5	8	1	1	Farmer	6	2	2	-	-	3	
3	Shri Prettion Sangma	1	1	1	-	3	1	1	Farmer	8	4	2	-	-	2	
4	Shri Jeppal Sangma	1	-	2	1	4	1	1	Farmer	10	2	3	-	-	4	
5	Shri Witing Marak	1	1	1	4	7	1	1	Farmer	8	3	3	2	-	6	
6	Shri Laoiti Marak	-	-	1	2	3	-	1	Farmer	6	2	2	-	-	8	
7	Shri Helping Sangma	1	2	1	2	6	1	1	Farmer	9	2	2	-	-	2	
8	Shri Nilton Sangma	2	-	1	-	3	1	1	Farmer	5	4	2	-	-	3	
9	Shri Eppilson Sangma	3	-	2	1	6	2	1	Farmer	6	1	3	-	-	4	
10	Shri Ring Marak	4	1	2	-	7	2	1	Farmer	10	2	3	-	-	6	
11	Shri Paidik Marak	1	1	1	2	5	1	1	Farmer	9	3	4	2	-	7	
12	Shri Roton Marak	1	2	1	2	6	1	1	Farmer	6	4	2	-	-	8	
13	Shri Exbirth Sangma	1	-	1	2	4	1	1	Farmer	7	2	3	-	-	10	
14	Shri Laisen Marak	1	1	1	2	5	1	1	Farmer	8	3	2	1	-	4	
15	Shri Betten Sangma	1	2	1	2	6	1	1	Farmer	11	2	3	1	-	3	
16	Shri Elda Sangma	1	-	1	-	2	1	1	Farmer	10	2	4	1	-	4	
17	Shri Barmen Marak	1	2	1	3	7	1	1	Farmer	12	2	4	-	-	3	
18	Shri Sagep Sangma	-	1	2	3	6	-	1	Farmer	4	3	2	-	-	6	
19	Shri Ronjan Marak	2	-	1	1	4	2	1	Farmer	12	4	3	-	-	7	
20	Shri Remaan Sangma	1	-	2	1	4	1	1	Farmer	6	3	4	-	-	3	
21	Shri Kridik Marak	1	-	1	-	2	1	1	Farmer	5	2	2	1	-	4	

22	Shri Saining Sangma	1	2	1	-	4	1	1	Farmer	5	2	2	1	-	3	
23	Shri Hit Marak	2	-	1	-	3	1	1	Farmer	10	4	2	-	-	4	
24	Shri Beangku Marak	1	2	1	2	6	1	1	Farmer	8	2	2	-	-	6	
25	Shri Benedick Marak	1	-	1	1	3	1	1	Farmer	6	2	3	1	-	2	
26	Shri Jekal Marak	2	1	2	4	9	2	2	Farmer	10	3	2	2	-	8	
27	Shri Dobin Marak	4	3	2	2	11	3	1	Farmer	12	6	3	-	-	10	
28	Shri Lullen Sangma	3	2	2	2	9	2	1	Service	11	5	4	-	-	4	
29	Shri Kijash Marak	1	2	3	2	8	1	2	Farmer	10	4	3	3	-	6	
30	Shri Hetlar Marak	2	4	2	3	11	2	1	Farmer	14	6	2	-	-	3	
31	Shri Semon Sangma	1	1	1	2	5	1	1	Farmer	6	3	2	-	-	2	
32	Shri Grejuet Marak	1	-	1	5	7	1	1	Farmer	10	2	3	-	-	7	
33	Shri Joholar Sangma	2	-	2	3	7	1	1	Farmer	11	5	4	-	-	6	
34	Shri Kenedi Marak	1	-	1	4	6	1	1	Farmer	10	6	4	-	-	3	
35	Shri Gogoi Marak	1	2	1	1	5	1	1	Farmer	6	2	3	-	-	2	
36	Shri Godang Sangma	2	2	1	-	5	2	1	Farmer	8	3	3	2	-	3	
37	Shri Tengrak Sangma	1	2	1	1	5	1	1	Farmer	6	2	2	1	-	-	
38	Shri Selmin Marak	1	-	1	1	3	1	1	Farmer	5	2	2	1	-	-	
39	Shri Jamet Marak	1	1	1	2	5	1	1	Farmer	6	3	3	-	-	2	
40	Shri Jing Sangma	1	3	1	2	7	1	1	Farmer	8	4	3	1	-	1	
	Grand Total	57	45	52	72	226	47	42	0	325	121	109	21	0	171	0

ANNEXURE - II

N.O.C

GARO HILLS AUTONOMOUS DISTRICT COUNCIL, TURA



Office of the A-king Nokma

Reking A-king No. 17-59A(S)

District : North Garo Hills.

Ref. _____ P-N-XU

Date: 10-12-2013.

N.O.C of Reking Aking Local

Anga Smt. Teraji R. Marak Reking Aking ni
Holma ang'a, ang'a ia 11,0,120 Soil depth - ra
Dilma Adap watew shed-uo song'a noli ni
mandekang'a kam hie on'chua gita see on'anga.

Galo see on'ang'a dakang'ia Complaint
along'aswa ching'a madrang makate' gimilian
kunt' ang'in ara hie' h'wang an'sang'em see
on'anga.

See on'ang' gifa:-
Teraji Marak
Smti Teraji R. Marak
Nokmg IV-59A (S) Reking A. King
North Garo Hills, Meghalaya

GARO HILLS AUTONOMOUS DISTRICT COUNCIL, TURA



Office of the A-king Nokma

Reking A-king No. IV-59A(8)

District: North Garo Hills.

Ref: _____

P-N-XU

Date: 10-12-2013.

Notice of Reking Aking Land

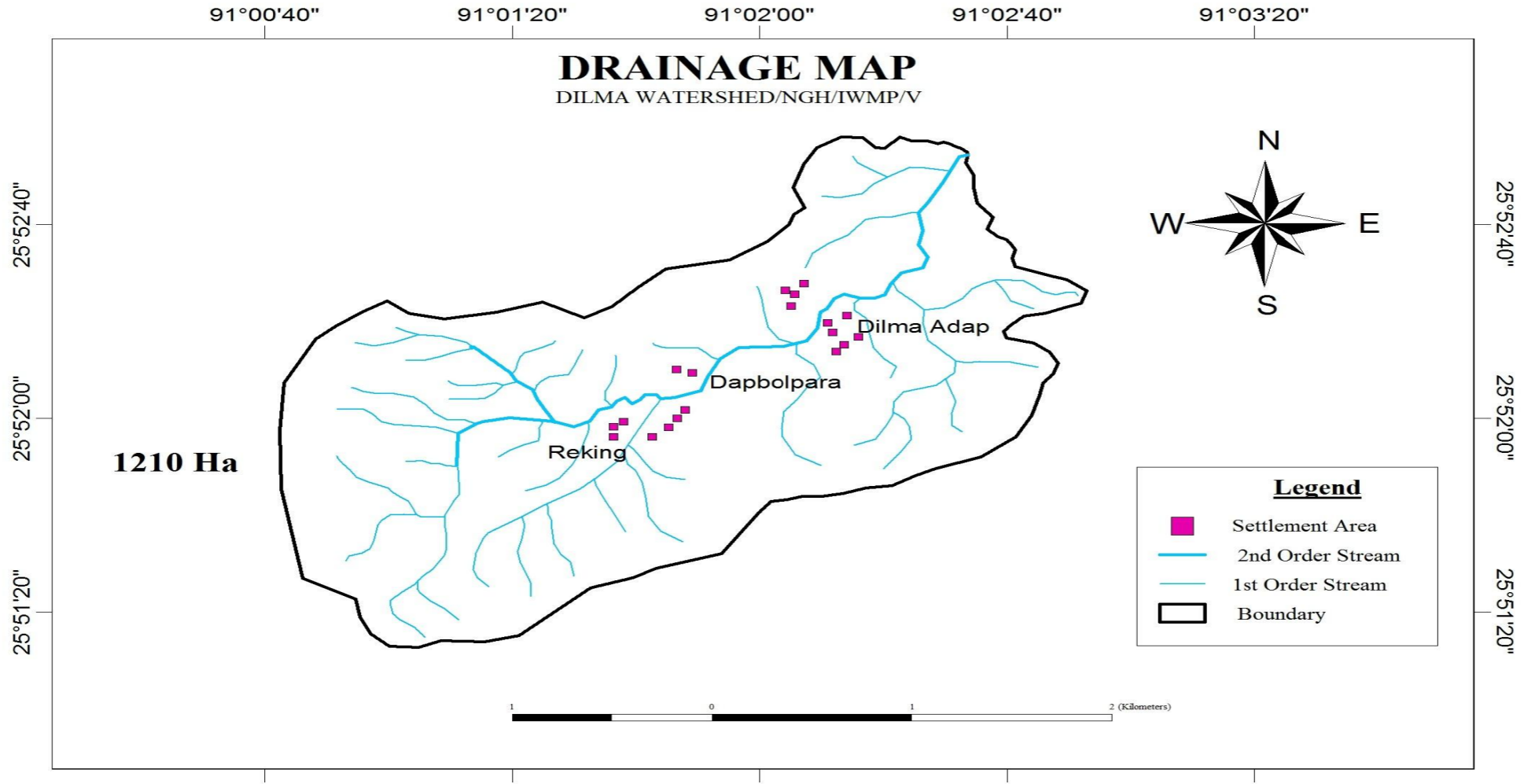
Anga Smt. Teraji R. Marak Reking Aking no
Holima anga, anga ia N, O, K, O Soil depth - na
Mokuchi water shed-uo song ne noli ne
mandekang sa ham lai on chue gila see on anga.

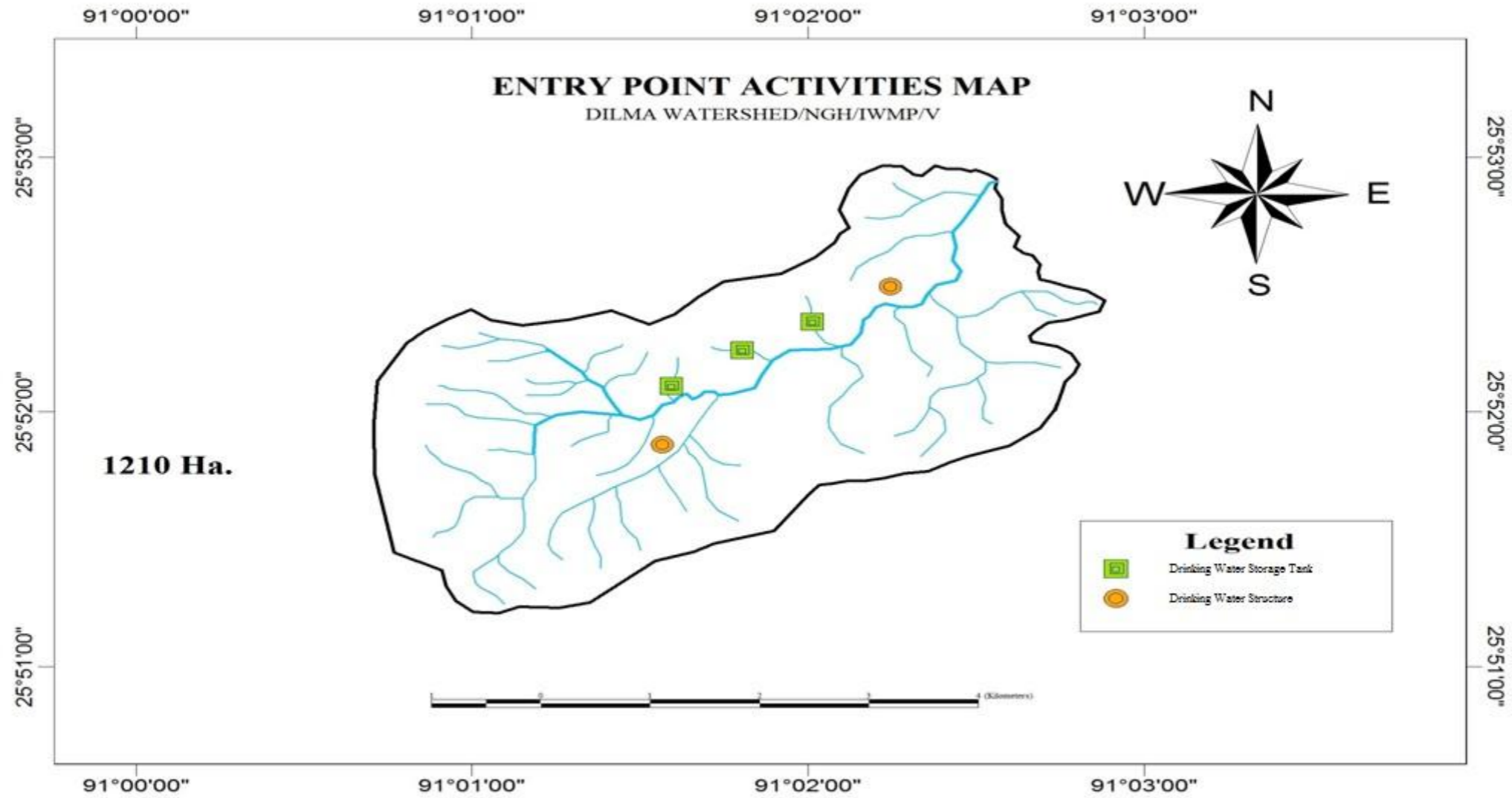
Galo see on anga dakang ha Complaint
alonggawa chinga madhang makatei gimilian
kusti ang'aw ara bi'w bimang an'angem see
on anga.

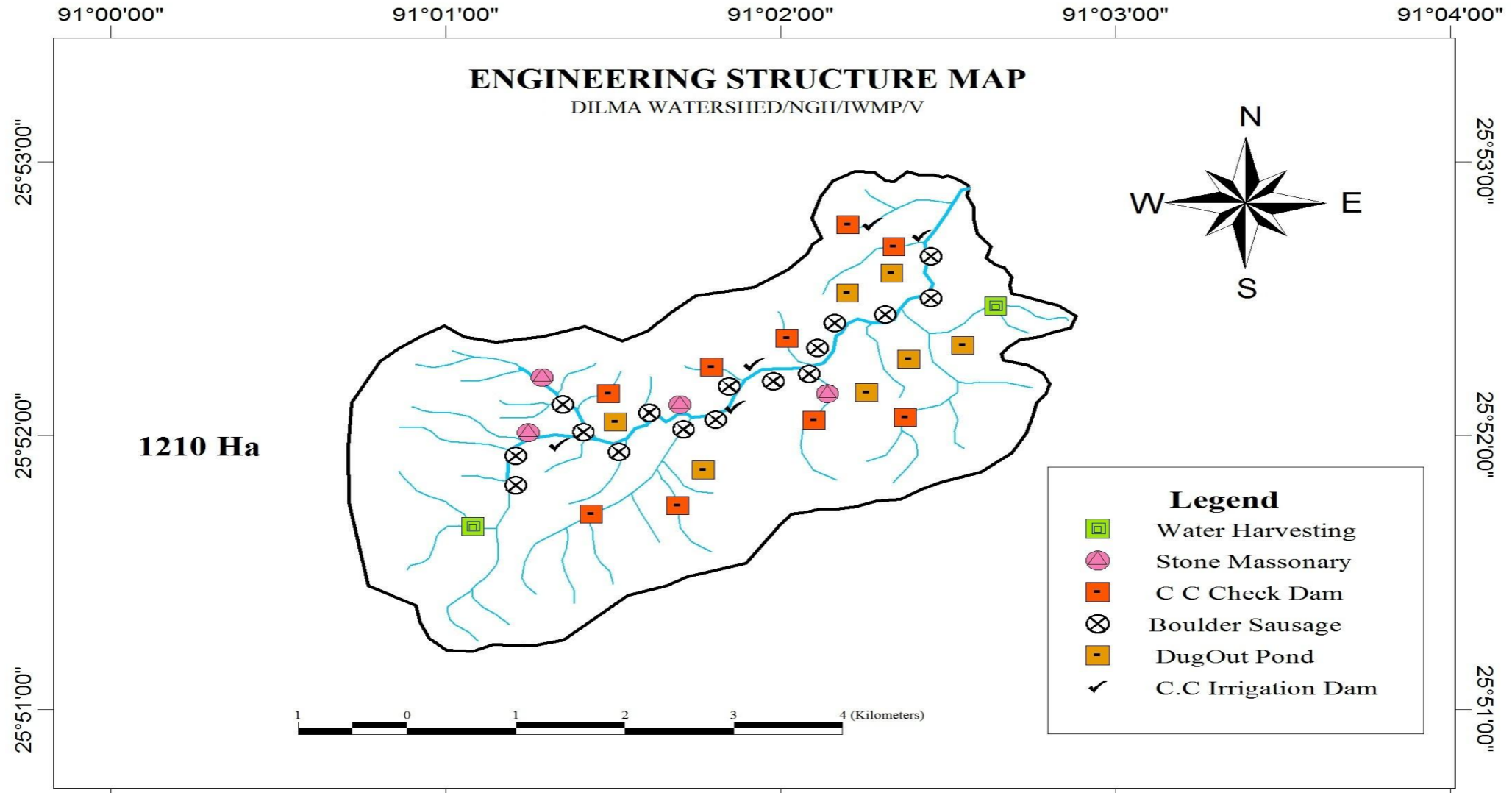
See on ang gifa:
Teraji Marak
Smt Teraji R. Marak
Nokma IV-59A (8) Reking A. king
North Garo Hills, Meghalaya

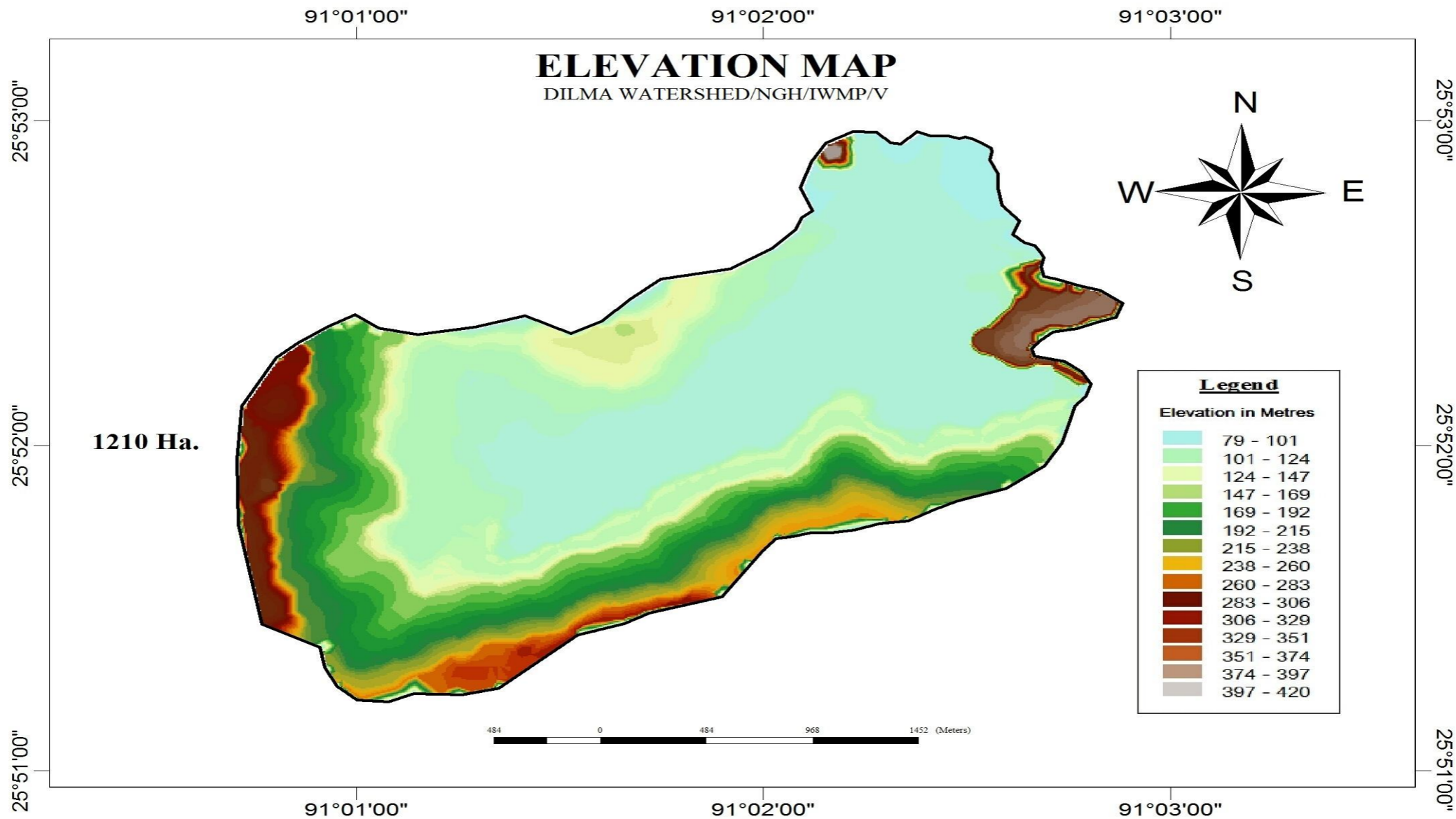
ANNEXURE - III

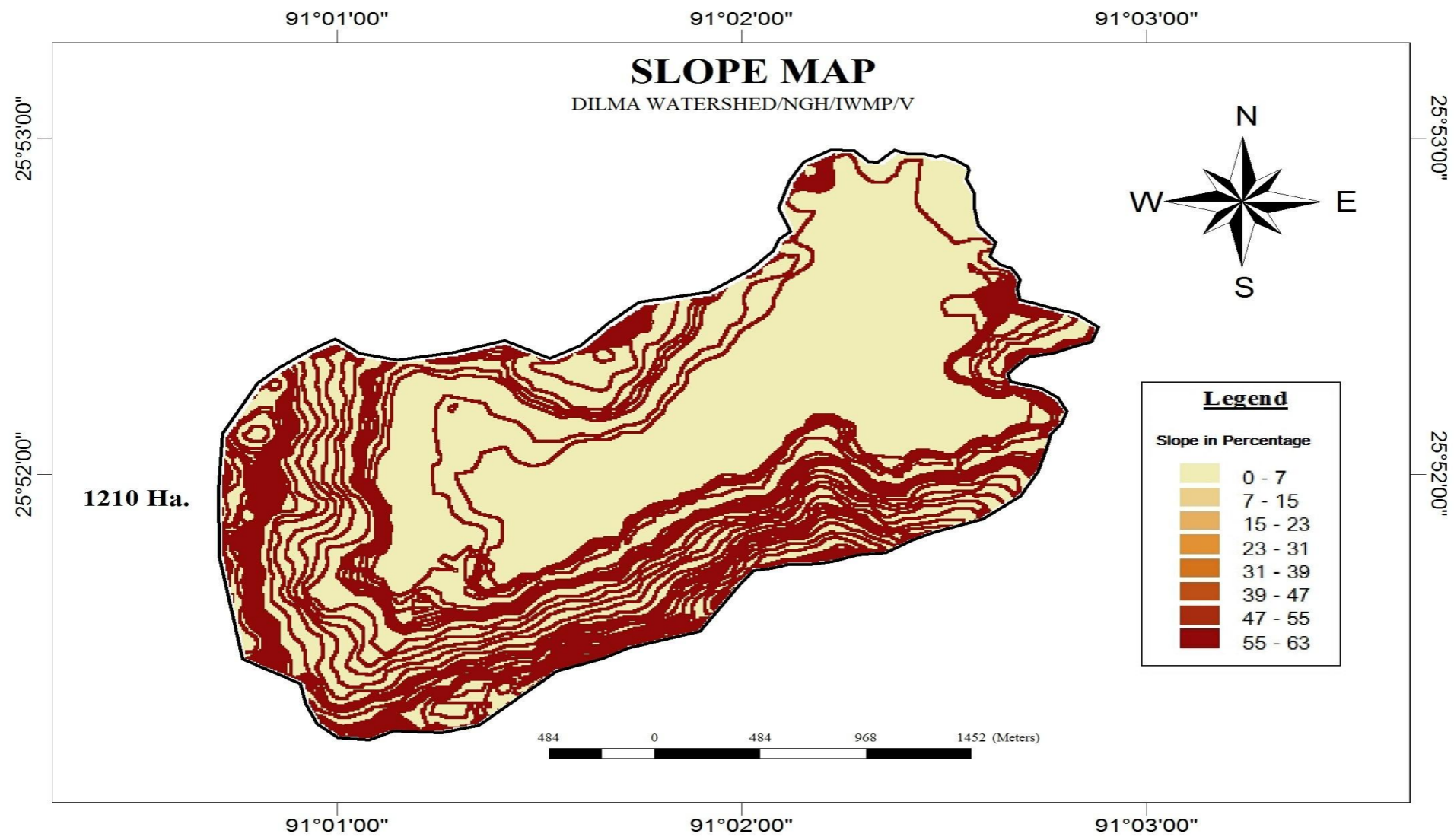
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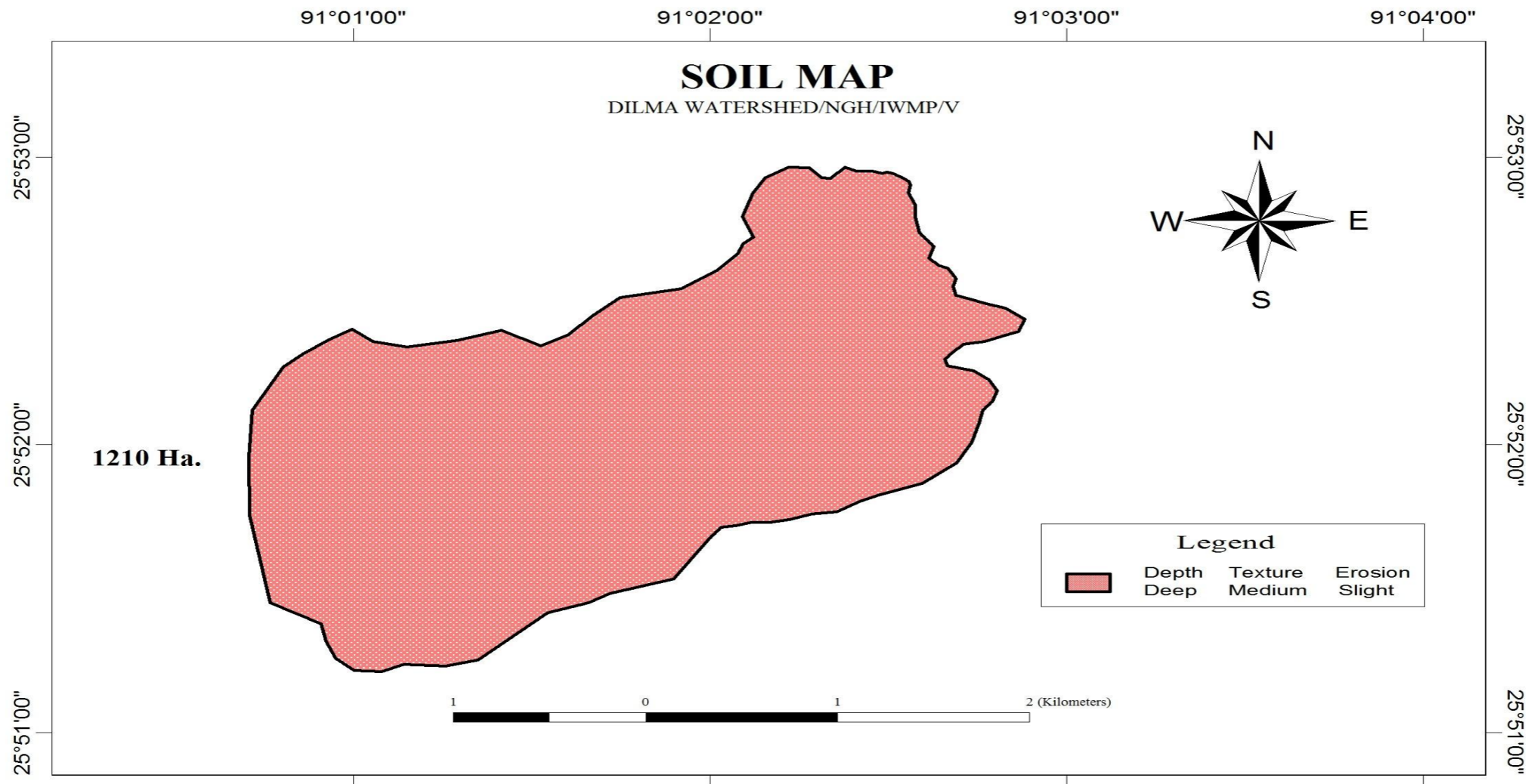


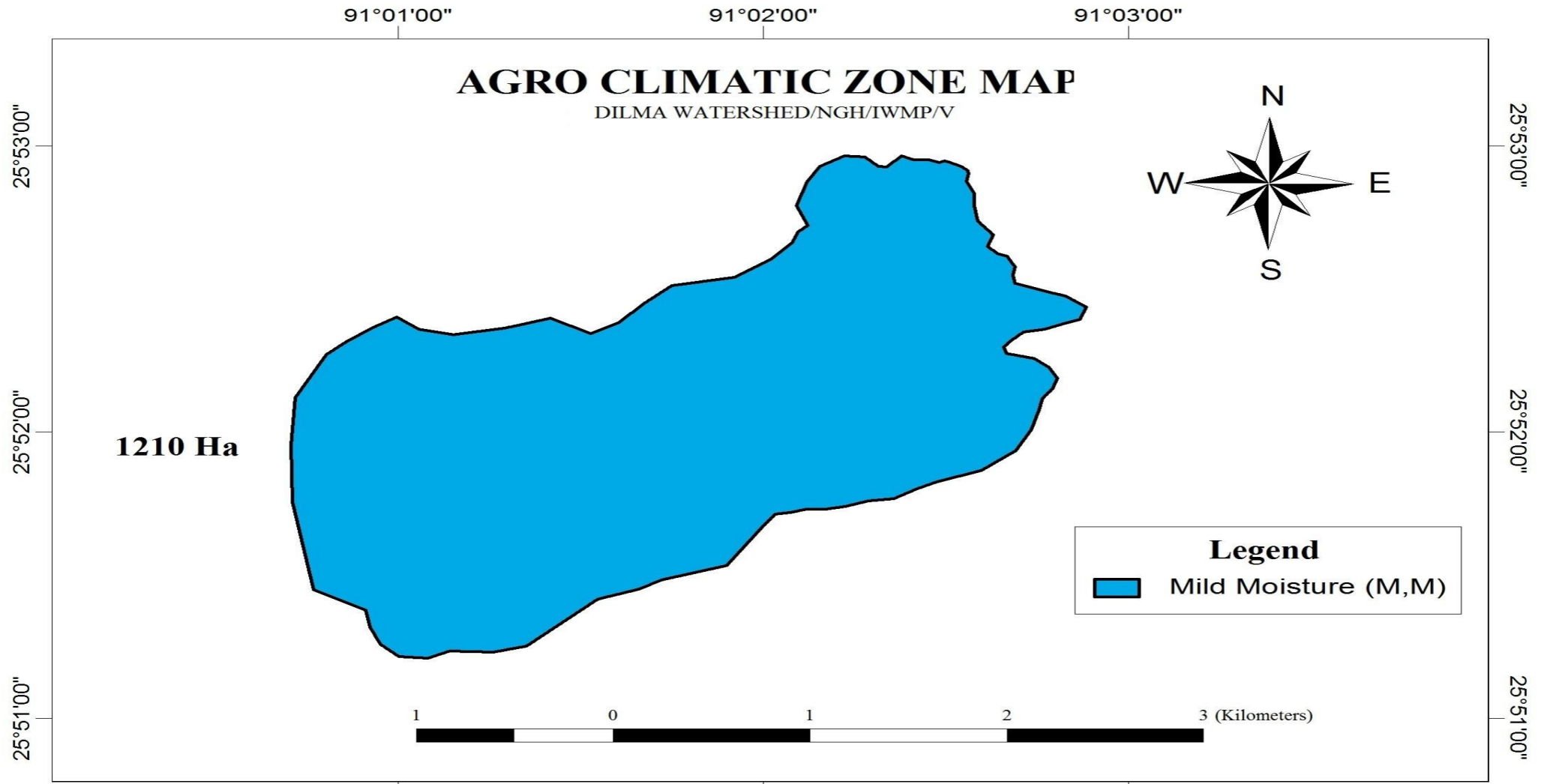


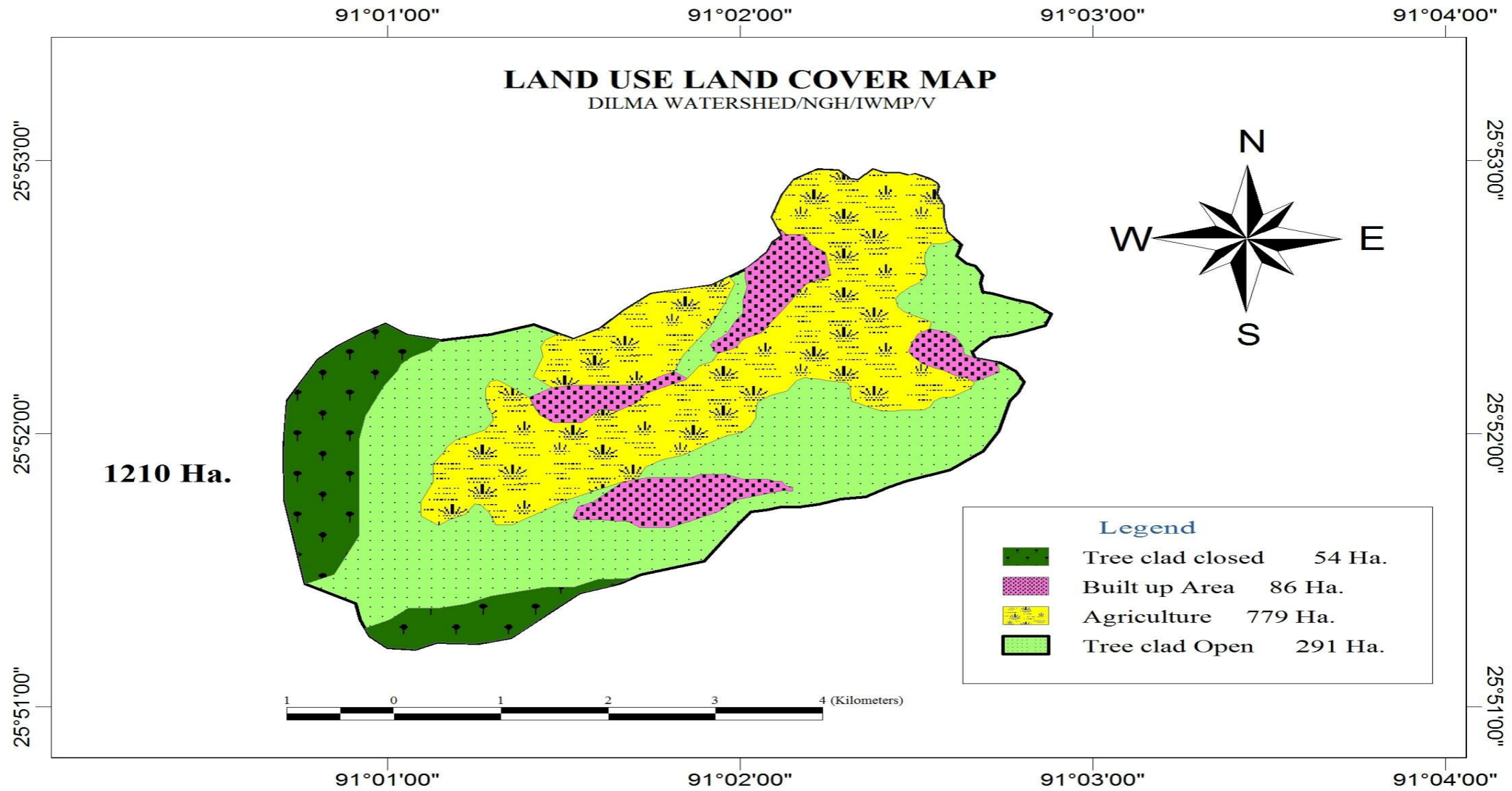


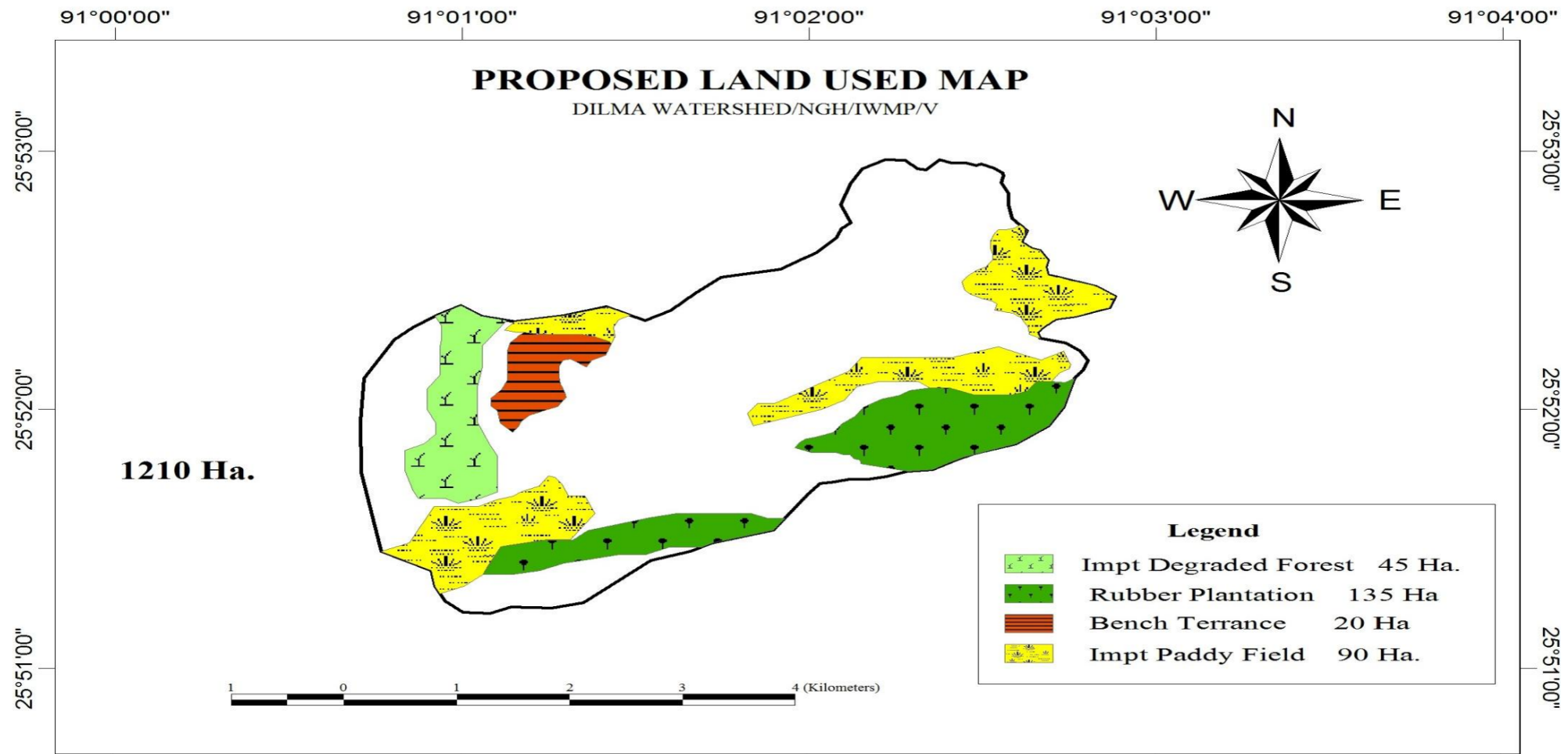


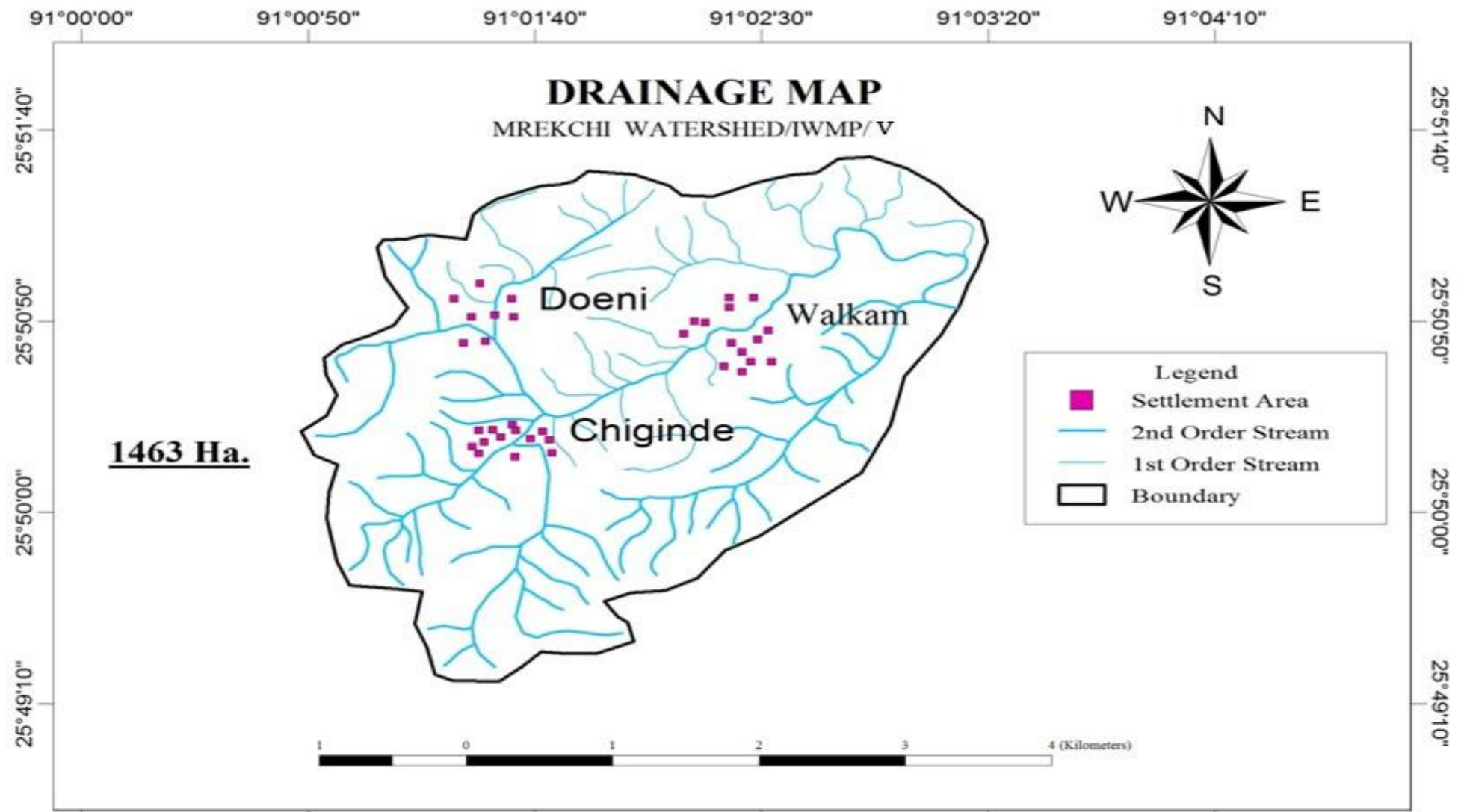


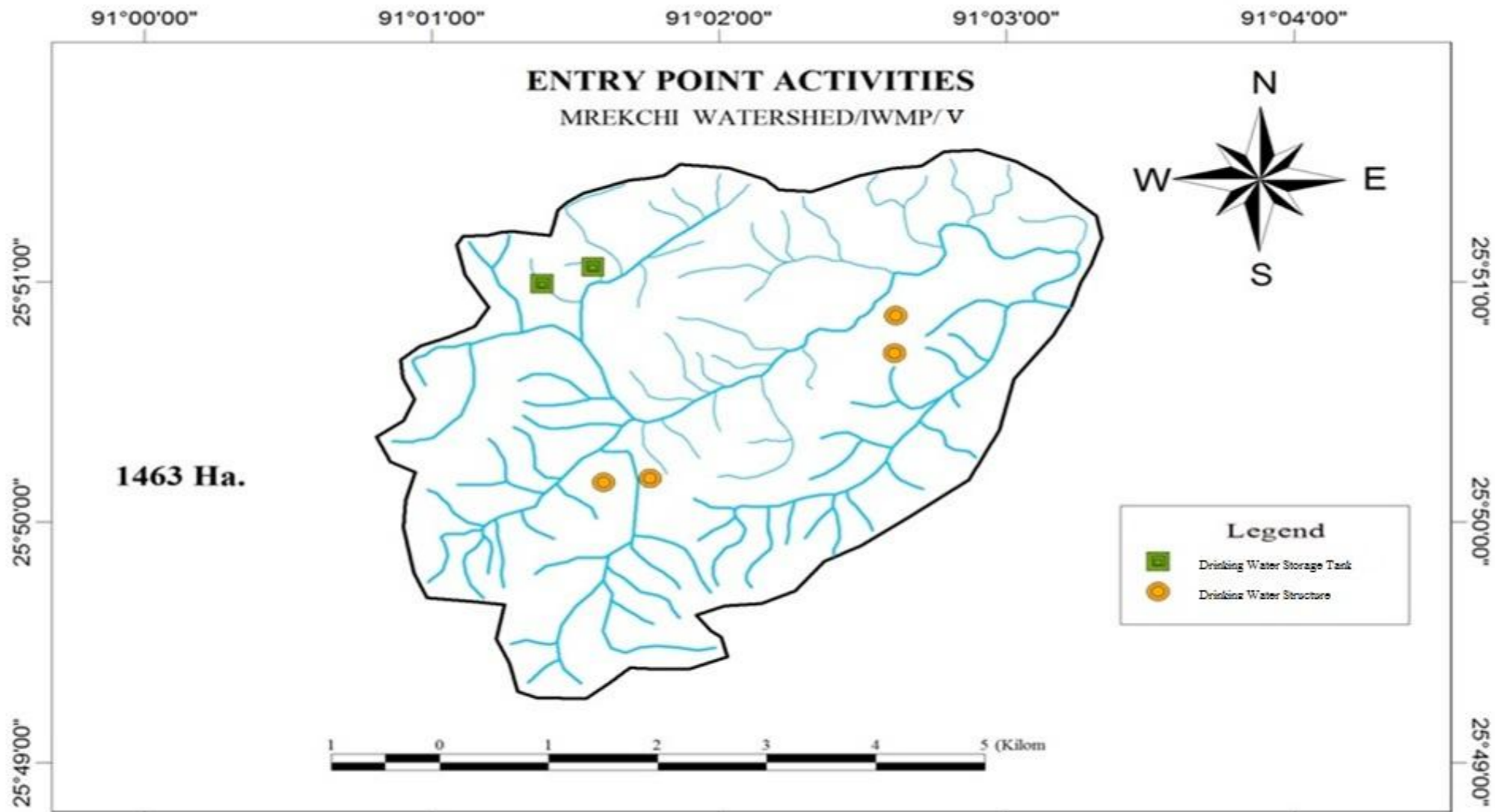


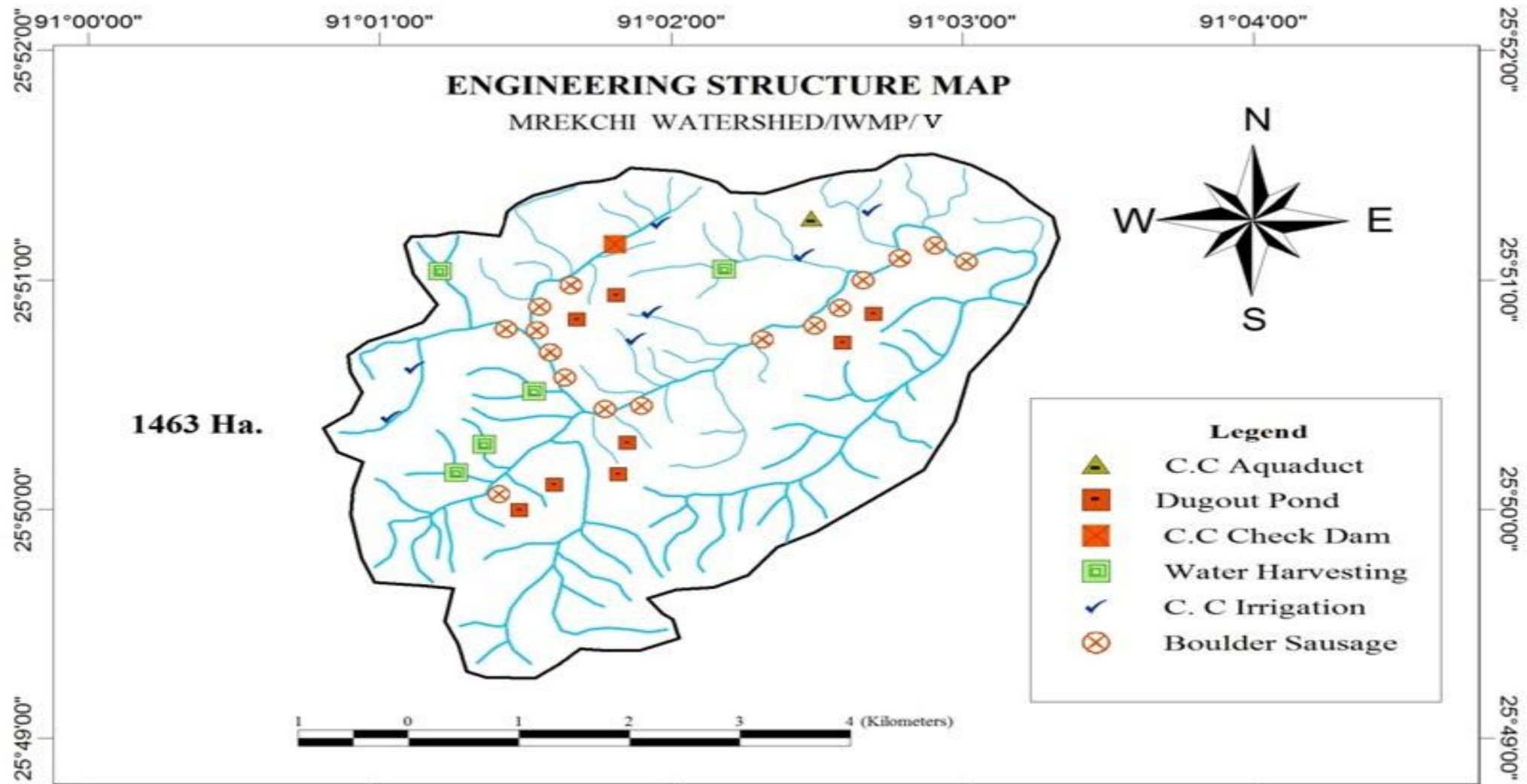


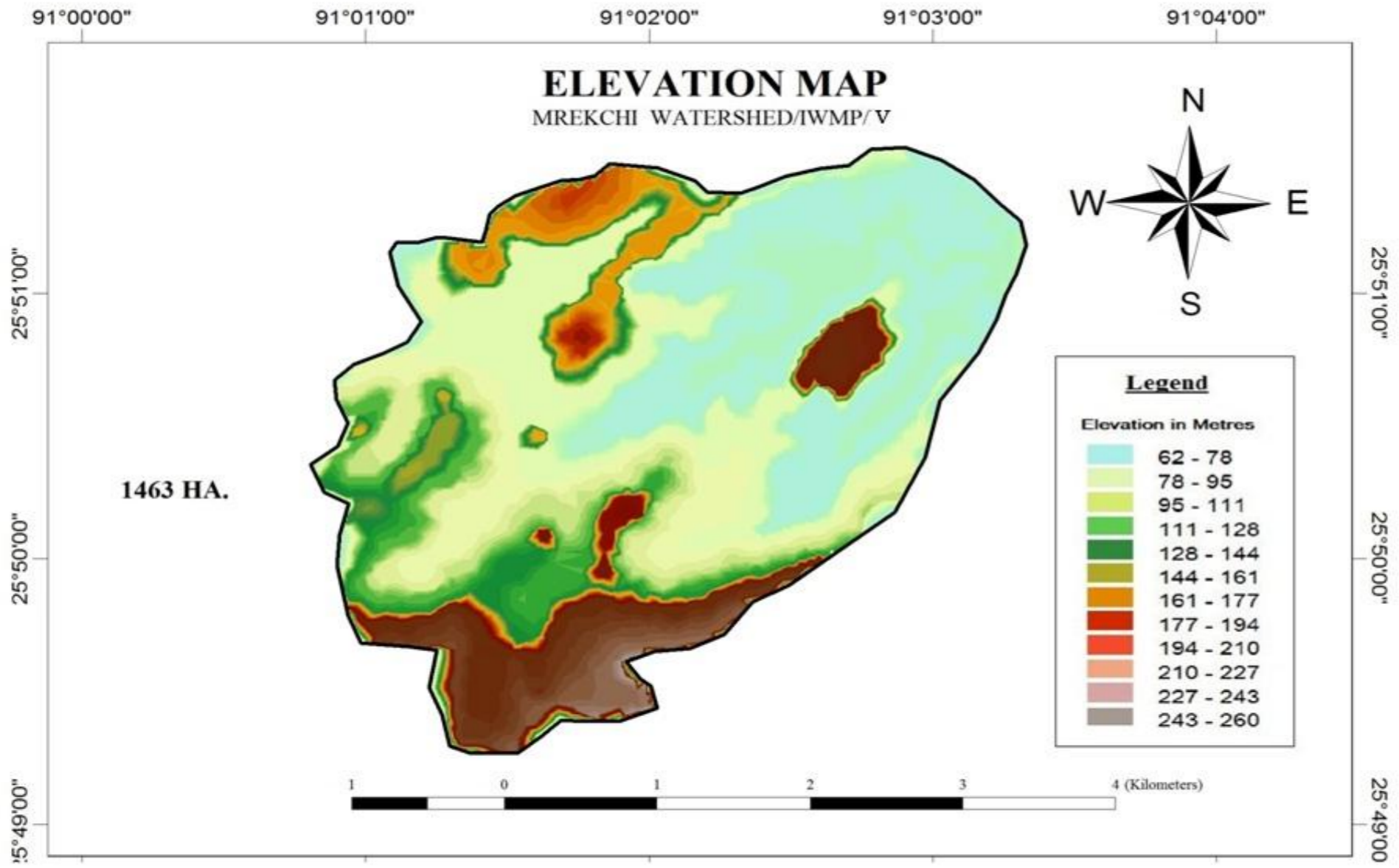


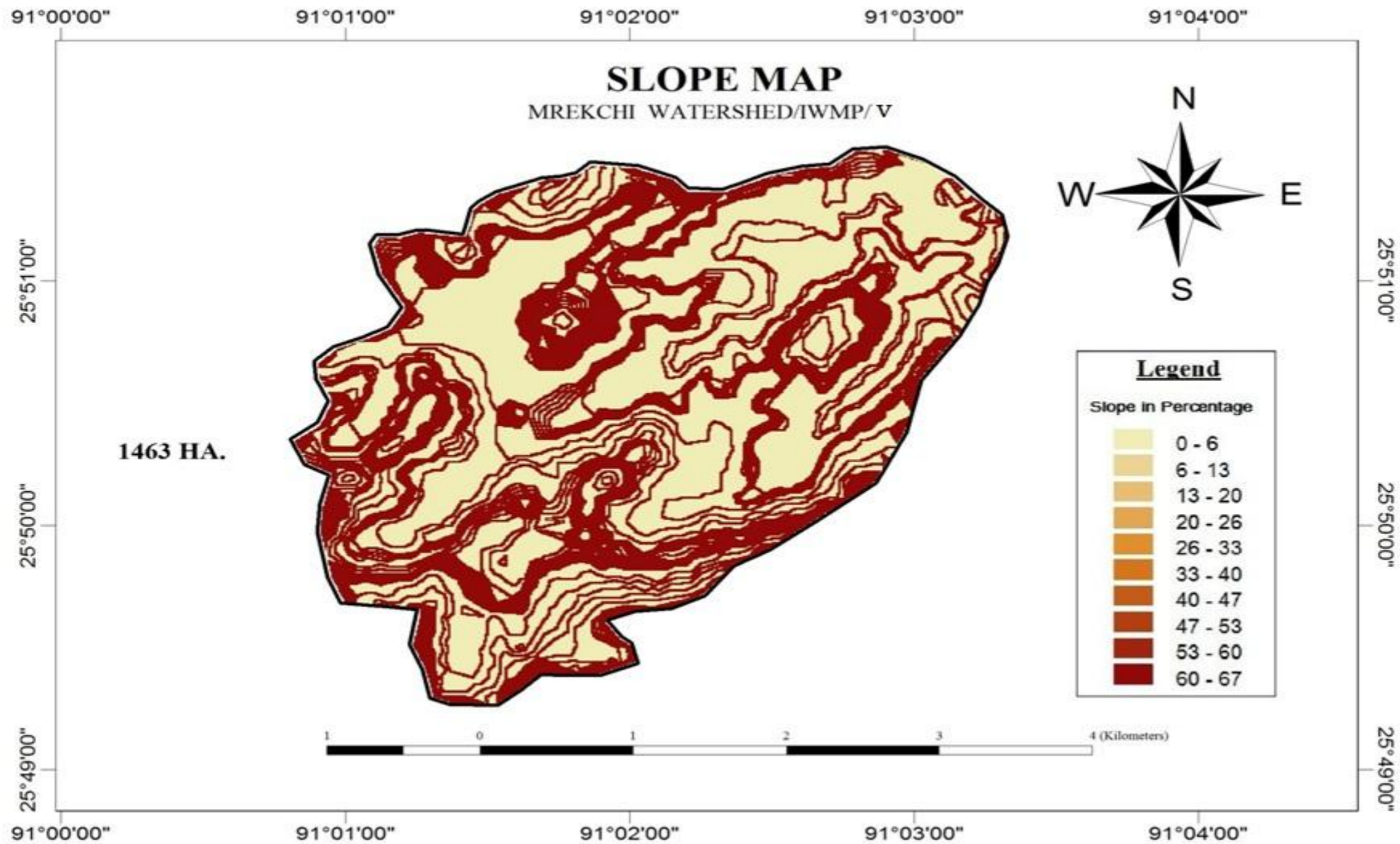


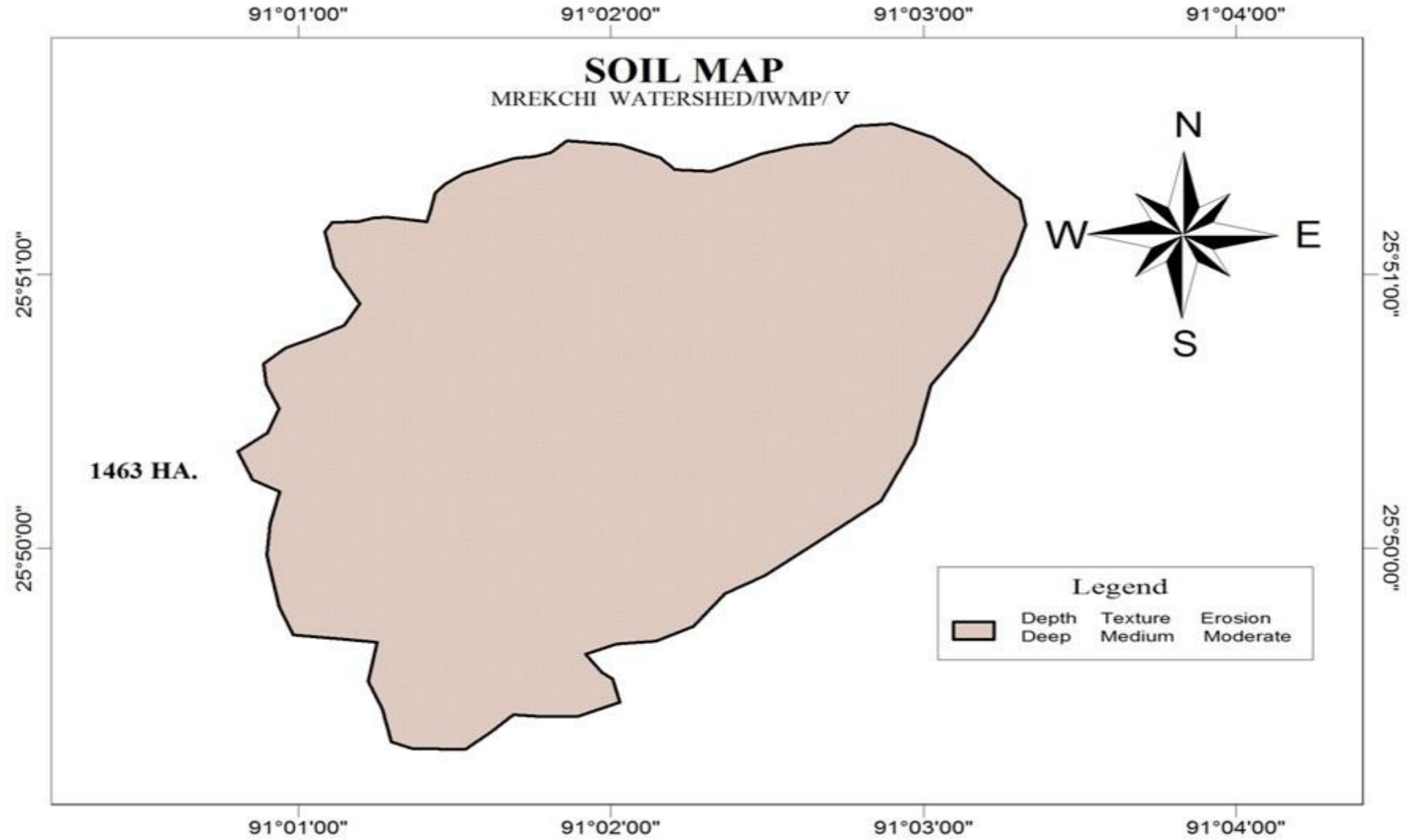


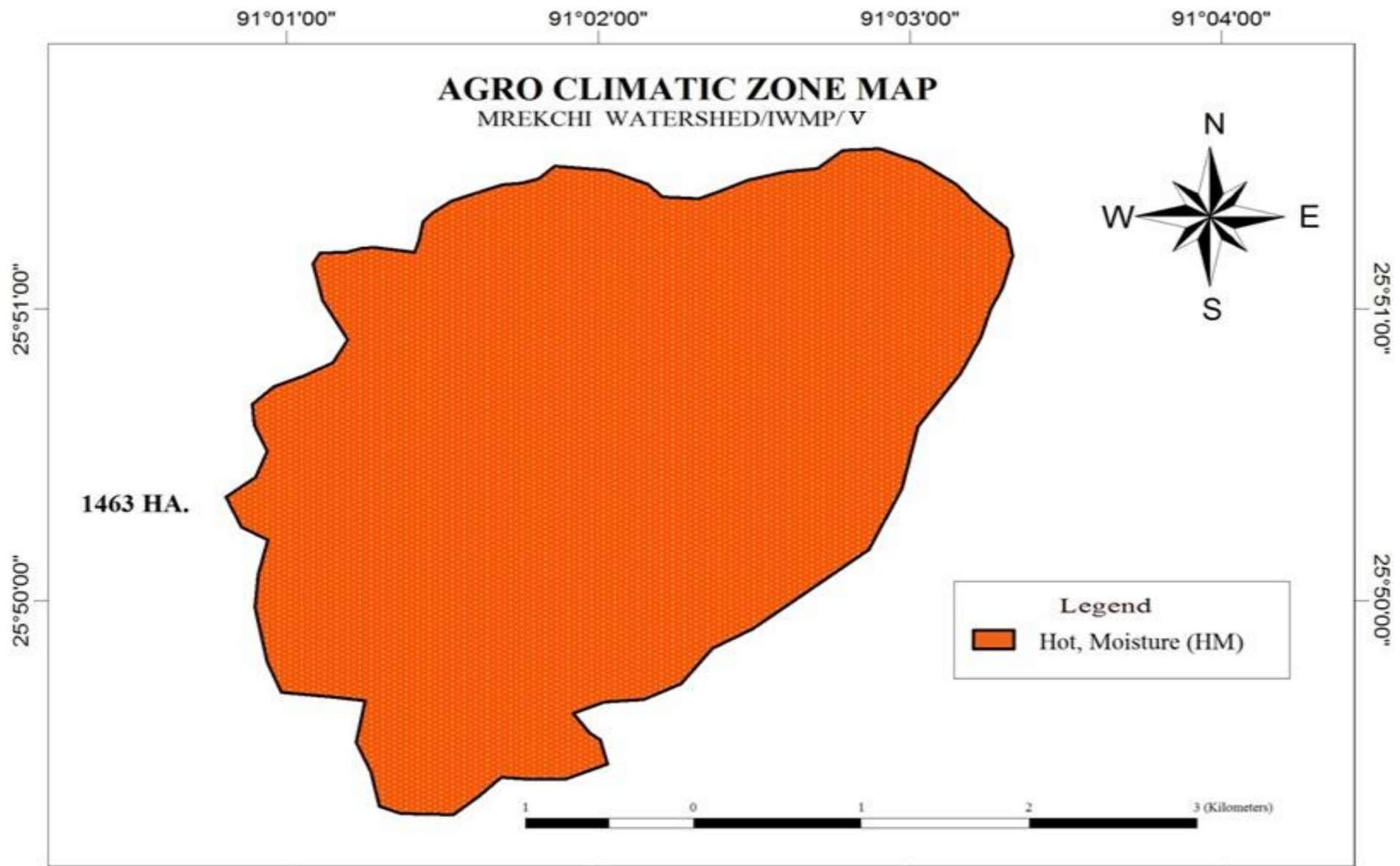


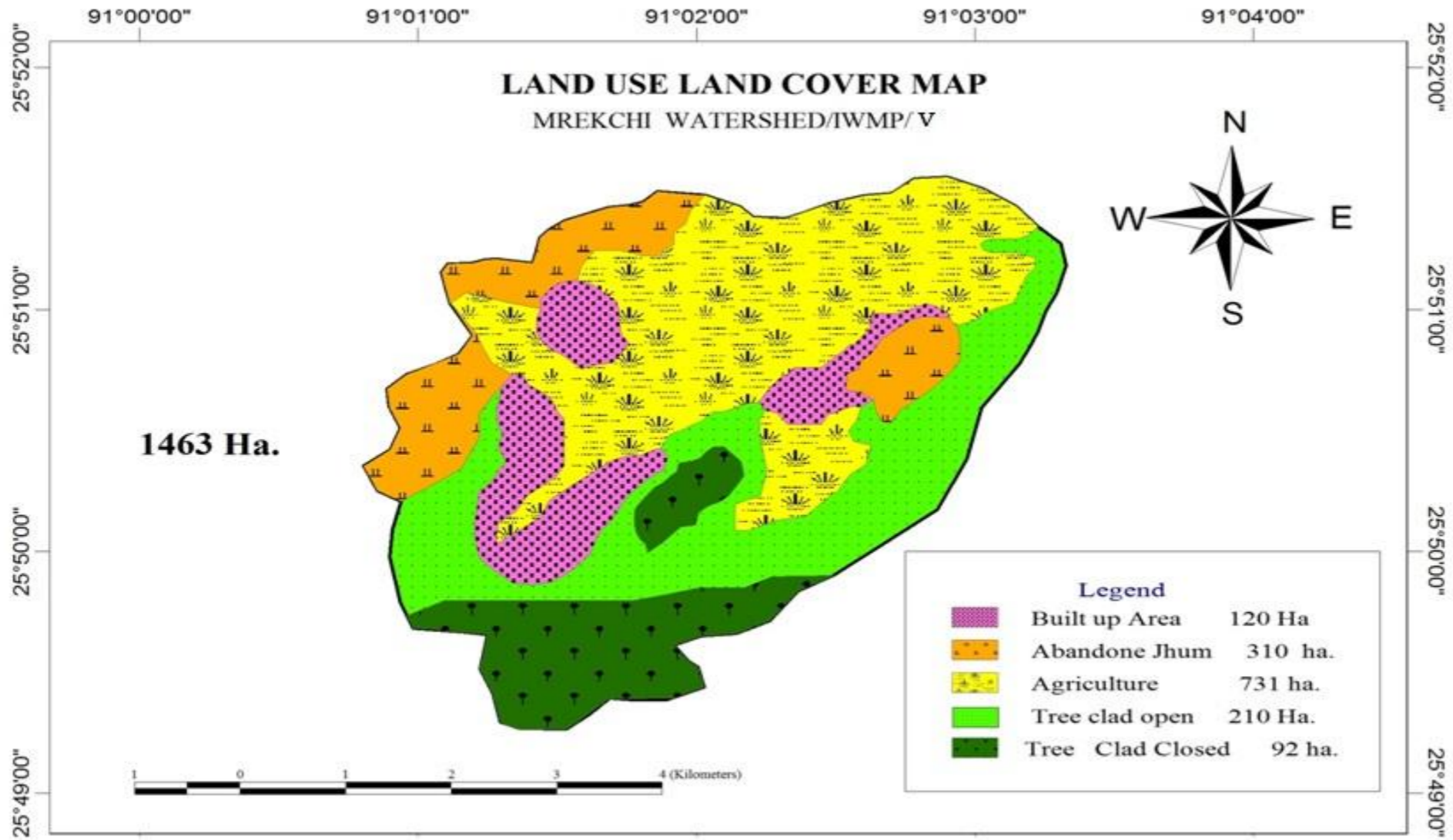


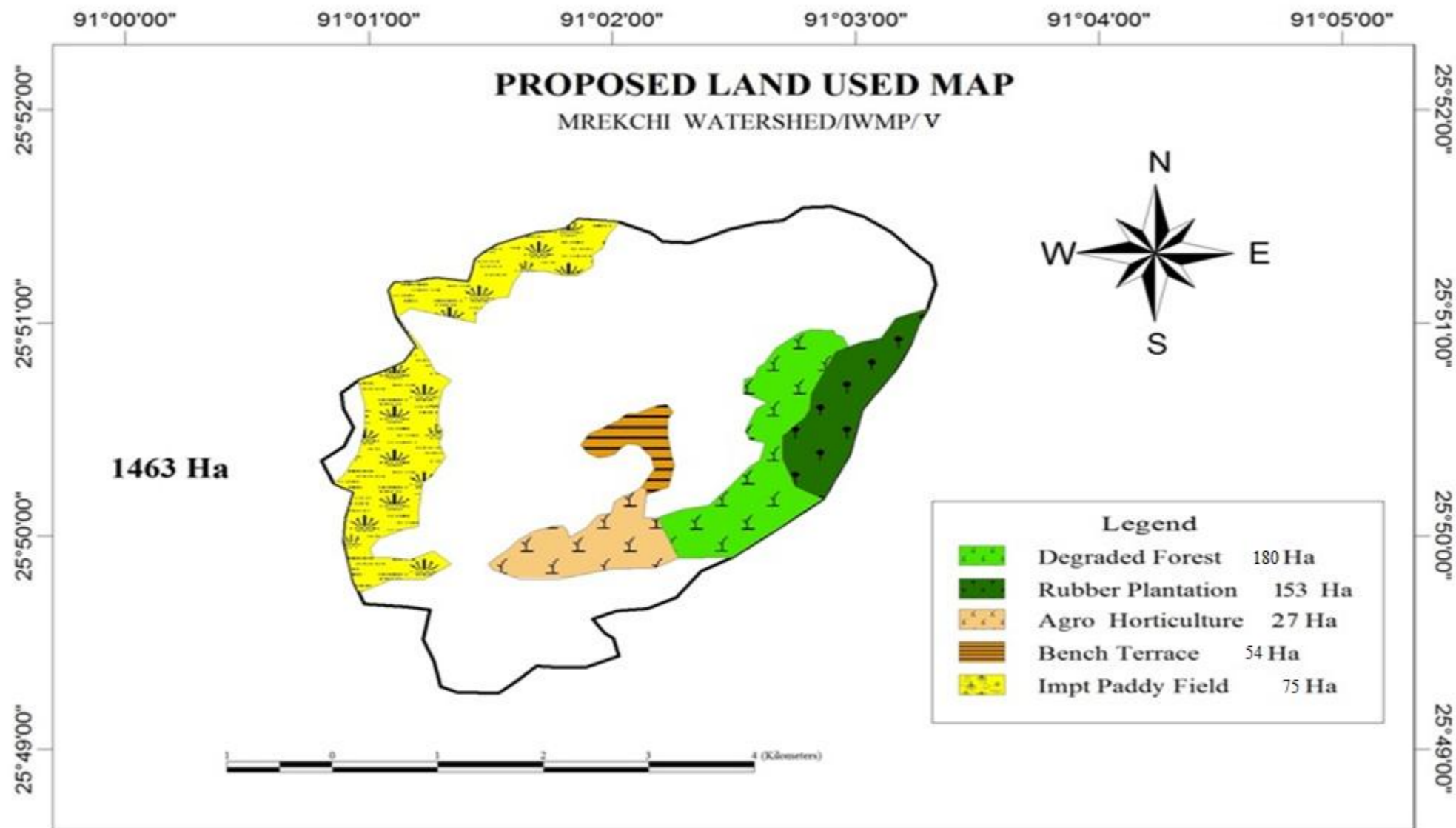












ANNEXURE – IV
(PLAN & ESTIMATE)

ESTIMATE FOR CONSTRUCTION OF C.C. RINGWELL AT DILMA A·DAP UNDER DILMA WATERSHED IWMP- XII AS PER THE P.W.D. SCHEDULE OF RATES FOR ROADS, BRIDGES AND E & D WORKS FOR THE YEAR 2011-2012 IN TURA AND WILLIAMNAGAR CIRCLES.

1. Site preparation - - - L.S. - - - - - Rs. 1270.00

2/134(VA) Earth work in Excavation for C.C. Ring well including cutting, dressing and removal of spoils etc. Complete.

(i) $\frac{22}{7} \times (0.90)^2 \times 1.50\text{m}$ (1st layer) = 3.818 m³
 @Rs.318.00/m³ - - - - = Rs. 1214.12

(ii) $\frac{22}{7} \times (0.90)^2 \times 1.50\text{m}$ (2nd layer) = 3.818 m³
 @Rs.318.00/m³ x 2 times - - - = Rs. 2428.24

(iii) $\frac{22}{7} \times (0.90)^2 \times 1.50\text{m}$ (3rd layer) = 3.818 m³
 @Rs.318.00/m³ x 3 times - - - = Rs. 3642.36

(iv) $\frac{22}{7} \times (0.90)^2 \times 1.50\text{m}$ (4th layer) = 3.818 m³
 @Rs.318.00/m³ x 4times - - - = Rs. 4856.48

(v) $\frac{22}{7} \times (0.90)^2 \times 1.50\text{m}$ (5th layer) = 3.818 m³
 @Rs.318.00/m³ x 5times - - - = Rs. 6070.60

Total = Rs. 18211.80 Rs. 18211.80

3/139(B) P.C.C. works in prop. 1:3:6 in Ring well with crush stone aggregate of 40 mm nominal size including curing for 14 days .

C.C. Works

$$\frac{22}{7} \times (0.90)^2 \times 7.50 \text{ m} = 19.092 \text{ m}^3$$

Deduction for Hollows

$$\frac{22}{7} \times (0.75)^2 \times 7.50 \text{ m} = (-) 13.259 \text{ m}^3$$

$$\text{Total} = 5.833 \text{ m}^3$$

@ Rs.5122.00/m³ - - - - - Rs. 29876.62

4/104(1) Providing brick masonry work in cement mortar 1:4 around the plate for of C.C. Ring well etc.

$$\frac{22}{7} \times (300)^2 \times 0.50 \text{m} = 14.1426 \text{ m}^2$$

$$\frac{22}{7} \times (2.85)^2 \times 0.15 \text{m} = 3.8291 \text{ m}^2$$

$$\text{Total} = 17.9717 \text{ m}^3$$

Deduction P/F & Hollow

$$\frac{22}{7} \times (2.85)^2 \times 0.50 \text{m} = 12.7636 \text{ m}^3$$

$$\frac{22}{7} \times (0.90)^2 \times 0.15 \text{m} (-) = 0.3818 \text{ m}^3$$

$$13.1454 \text{ ----- } (-) 13.1454 \text{ m}^3$$

$$\text{Total} = 4.8263 \text{ m}^3$$

@Rs.5312/m³ - - - - - Rs. 25637.30

5/6.12 Providing and laying flooring laid over with C.C. on the bed of the platform.
 $\frac{22}{7} \times (2.85)^2 \times 0.10\text{m} = 2.5527 \text{ m}^3$
 Deduction for Hollow
 $\frac{22}{7} \times (0.75)^2 \times 0.10\text{m} = \underline{(-) 0.1767\text{m}^3}$
 Total = 2.376 m³
 @Rs.3557/m³ - - - - - Rs. 8451.43

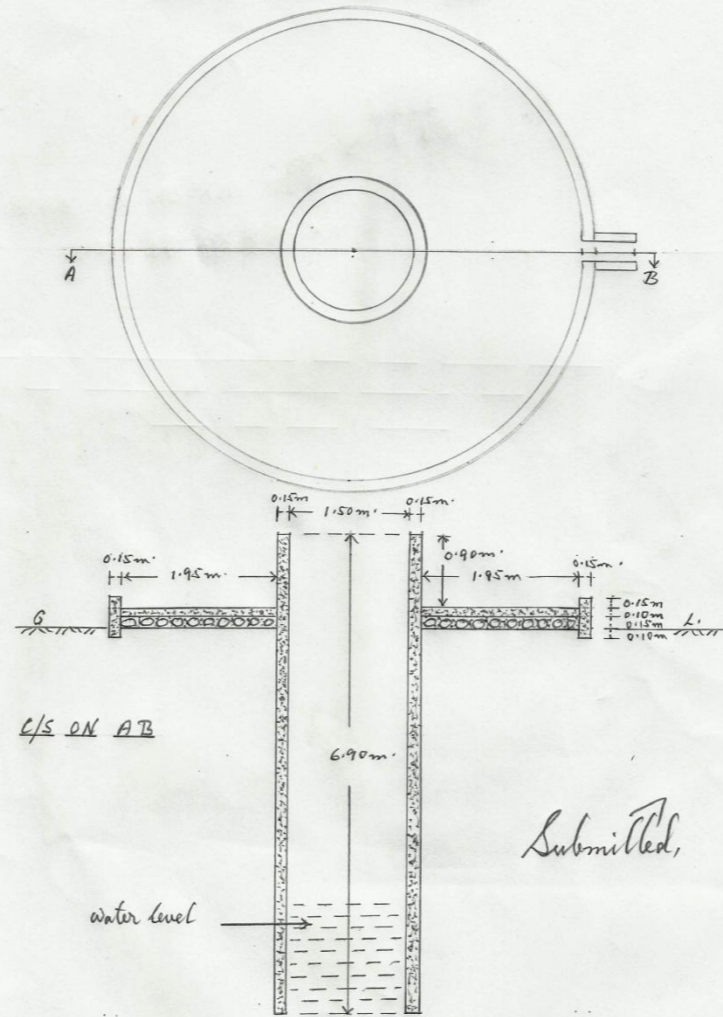
6. 176 Plastering with cement mortar 1:3 including the surface and curing etc. complete.
 $\frac{22}{7} \times 10.00\text{m} = 31.43 \text{ m}^2$
 $\frac{22}{7} \times 0.90\text{m} = 2.83 \text{ m}^2$
 $\frac{22}{7} \times (2.85)^2 = \underline{25.83\text{m}^2}$
 Total = 59.79m²
 Deduction for Hollow
 $\frac{22}{7} \times (0.90)^2 = \underline{(-)2.55 \text{ m}^2}$
 Total = 57.24 m²
 @Rs.97/m² - - - - - Rs. 5552.28

6. 176 Labour for sinking down the C.C. rings inside the Ringwell in position including plastering the joints etc. Complete. - - - - -
L.S. Rs. 6000.00
 Total: Rs. 94999.43
 Say, Rs. 95000.00

Rupees (Ninety five thousand) only.

Submitted,

PLAN FOR CONSTRUCTION OF C.C. RING WELL
AT DILMA ADAP UNDER INMP-XII
SCALE :- NOT TO SCALE



ESTIMATE FOR CONSTRUCTION OF C.C. RINGWELL 2 NOS. AT CHIGINDE UNDER MREKCHI WATERSHED IWMP- XII AS PER THE P.W.D. SCHEDULE OF RATES FOR ROADS, BRIDGES AND E & D WORKS FOR THE YEAR 2011-2012 IN TURA AND WILLIAMNAGAR CIRCLES.

1. Site preparation - - - L.S. - - - - Rs. 1270.00

2/134(VA) Earth work in Excavation for C.C. Ring well including cutting, dressing and removal of spoils etc. Complete.

(i) $\frac{22}{7} \times (0.90)^2 \times 1.50\text{m}$ (1st layer) = 3.818 m³
 @Rs.318.00/m³ - - - - = Rs. 1214.12

(ii) $\frac{22}{7} \times (0.90)^2 \times 1.50\text{m}$ (2nd layer) = 3.818 m³
 @Rs.318.00/m³ x 2 times - - - = Rs. 2428.24

(iii) $\frac{22}{7} \times (0.90)^2 \times 1.50\text{m}$ (3rd layer) = 3.818 m³
 @Rs.318.00/m³ x 3 times - - - = Rs. 3642.36

(iv) $\frac{22}{7} \times (0.90)^2 \times 1.50\text{m}$ (4th layer) = 3.818 m³
 @Rs.318.00/m³ x 4times - - - = Rs. 4856.48

(v) $\frac{22}{7} \times (0.90)^2 \times 1.50\text{m}$ (5th layer) = 3.818 m³
 @Rs.318.00/m³ x 5times - - - = Rs. 6070.60

Total = Rs. 18211.80 Rs. 18211.80

3/139(B) P.C.C. works in prop. 1:3:6 in Ring well with crush stone aggregate of 40 mm nominal size including curing for 14 days .

C.C. Works

$$\frac{22}{7} \times (0.90)^2 \times 7.50 \text{ m} = 19.092 \text{ m}^3$$

Deduction for Hollows

$$\frac{22}{7} \times (0.75)^2 \times 7.50 \text{ m} = (-) 13.259 \text{ m}^3$$
$$\text{Total} = 5.833 \text{ m}^3$$

@ Rs.5122.00/m³ - - - - - Rs. 29876.62

4/104(1) Providing brick masonry work in cement mortor 1:4 around the plate for of C.C. Ring well etc.

$$\frac{22}{7} \times (300)^2 \times 0.50 \text{m} = 14.1426 \text{ m}^2$$
$$\frac{22}{7} \times (2.85)^2 \times 0.15 \text{m} = 3.8291 \text{ m}^2$$
$$\text{Total} = 17.9717 \text{ m}^3$$

Deduction P/F & Hollow

$$\frac{22}{7} \times (2.85)^2 \times 0.50 \text{m} = 12.7636 \text{ m}^3$$
$$\frac{22}{7} \times (0.90)^2 \times 0.15 \text{m}(-) = 0.3818 \text{ m}^3$$
$$13.1454 \text{ ----- } (-) 13.1454 \text{ m}^3$$
$$\text{Total} = 4.8263 \text{ m}^3$$

@Rs.5312/m³ - - - - - Rs. 25637.30

5/6.12 Providing and laying flooring laid over with C.C. on the bed of the platform.

$$\frac{22}{7} \times (2.85)^2 \times 0.10 \text{m} = 2.5527 \text{ m}^3$$

Deduction for Hollow

$$\frac{22}{7} \times (0.75)^2 \times 0.10 \text{m} = (-) 0.1767 \text{ m}^3$$
$$\text{Total} = 2.376 \text{ m}^3$$

@Rs.3557/m³ - - - - - Rs. 8451.43

6. 176 Plastering with cement mortar 1:3 including
the surface and curing etc. complete.
 $\frac{22}{7} \times 10.00\text{m} = 31.43 \text{ m}^2$
 $\frac{22}{7} \times 0.90\text{m} = 2.83 \text{ m}^2$
 $\frac{22}{7} \times (2.85)^2 = 25.83\text{m}^2$
Total = 59.79m²

Deduction for Hollow
 $\frac{22}{7} \times (0.90)^2 = (-)2.55 \text{ m}^2$
Total = 57.24 m²

@Rs.97/m² - - - - - Rs. 5552.28

6. 176 Labour for sinking down the C.C. rings inside the
Ringwell in position including plastering the joints
etc. Complete. - - - - -

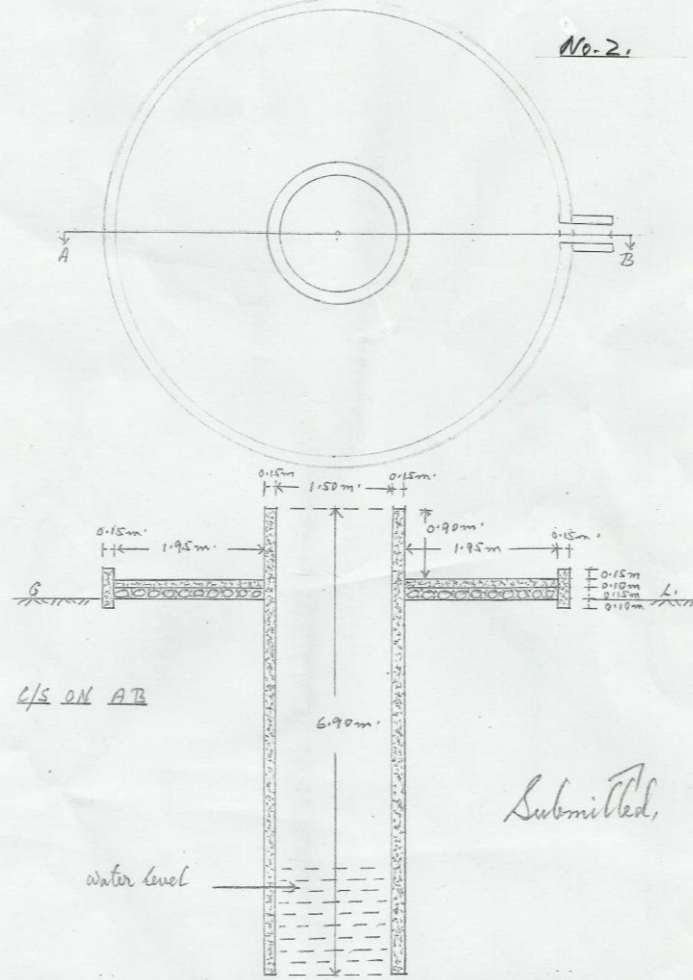
L.S. Rs. 6000.00
Total: Rs. 94999.43
Say, Rs. 95000.00

@ 95000 x 2 Nos. =190000.00
Rupees (one lakh ninety thousand) only.

Submitted,

PLAN FOR CONSTRUCTION OF C.C. RING WELL
AT CHIGINDE UNDER IWMP-XII
NOT TO SCALE

No. 2.



**ESTIMATE FOR CONSTRUCTION OF C.C. RINGWELL 2 NOS. AT WALKAM UNDER MREKCHI WATERSHED IWMP- XII AS PER THE P.W.D. SCHEDULE OF RATES FOR
ROADS, BRIDGES AND E & D WORKS FOR THE YEAR 2011-2012 IN TURA AND WILLIAMNAGAR CIRCLES.**

1. Site preparation - - - L.S. - - - - - Rs. 1270.00

2/134(VA) Earth work in Excavation for C.C. Ring well including cutting, dressing and removal of spoils etc. Complete.

(i) $\frac{22}{7} \times (0.90)^2 \times 1.50\text{m}$ (1st layer) = 3.818 m³
@Rs.318.00/m³ - - - - = Rs. 1214.12

(ii) $\frac{22}{7} \times (0.90)^2 \times 1.50\text{m}$ (2nd layer) = 3.818 m³
@Rs.318.00/m³ x 2 times - - - = Rs. 2428.24

(iii) $\frac{22}{7} \times (0.90)^2 \times 1.50\text{m}$ (3rd layer) = 3.818 m³
@Rs.318.00/m³ x 3 times - - - = Rs. 3642.36

(iv) $\frac{22}{7} \times (0.90)^2 \times 1.50\text{m}$ (4th layer) = 3.818 m³
@Rs.318.00/m³ x 4times - - - = Rs. 4856.48

(v) $\frac{22}{7} \times (0.90)^2 \times 1.50\text{m}$ (5th layer) = 3.818 m³
@Rs.318.00/m³ x 5times - - - = Rs. 6070.60

Total = Rs. 18211.80 Rs. 18211.80

3/139(B) P.C.C. works in prop. 1:3:6 in Ring well with crush stone aggregate of 40 mm nominal size including curing for 14 days .

C.C. Works

$$\frac{22}{7} \times (0.90)^2 \times 7.50 \text{ m} = 19.092 \text{ m}^3$$

Deduction for Hollows

$$\frac{22}{7} \times (0.75)^2 \times 7.50 \text{ m} = (-) 13.259 \text{ m}^3$$

$$\text{Total} = 5.833 \text{ m}^3$$

@ Rs.5122.00/m³ - - - - - Rs. 29876.62

4/104(1) Providing brick masonry work in cement mortar 1:4 around the plate for of C.C. Ring well etc.

$$\frac{22}{7} \times (300)^2 \times 0.50 \text{ m} = 14.1426 \text{ m}^2$$

$$\frac{22}{7} \times (2.85)^2 \times 0.15 \text{ m} = 3.8291 \text{ m}^2$$

$$\text{Total} = 17.9717 \text{ m}^3$$

Deduction P/F & Hollow

$$\frac{22}{7} \times (2.85)^2 \times 0.50 \text{ m} = 12.7636 \text{ m}^3$$

$$\frac{22}{7} \times (0.90)^2 \times 0.15 \text{ m} (-) = 0.3818 \text{ m}^3$$

$$13.1454 \text{ ----- } (-) \underline{13.1454 \text{ m}^3}$$

$$\text{Total} = 4.8263 \text{ m}^3$$

@Rs.5312/m³ - - - - - Rs. 25637.30

5/6.12 Providing and laying flooring laid over with C.C. on the bed of the platform.

$$\frac{22}{7} \times (2.85)^2 \times 0.10 \text{ m} = 2.5527 \text{ m}^3$$

Deduction for Hollow

$$\frac{22}{7} \times (0.75)^2 \times 0.10 \text{ m} = (-) 0.1767 \text{ m}^3$$

$$\text{Total} = 2.376 \text{ m}^3$$

@Rs.3557/m³ - - - - - Rs. 8451.43

6. 176 Plastering with cement mortar 1:3 including the surface and curing etc. complete.

$$\frac{22}{7} \times 10.00\text{m} = 31.43 \text{ m}^2$$

$$\frac{22}{7} \times 0.90\text{m} = 2.83 \text{ m}^2$$

$$\frac{22}{7} \times (2.85)^2 = 25.83\text{m}^2$$

$$\text{Total} = 59.79\text{m}^2$$

Deduction for Hollow

$$\frac{22}{7} \times (0.90)^2 = (-)2.55 \text{ m}^2$$

$$\text{Total} = 57.24 \text{ m}^2$$

@Rs.97/m² - - - - - Rs. 5552.28

6. 176 Labour for sinking down the C.C. rings inside the Ringwell in position including plastering the joints etc. Complete. - - - - -

L.S. Rs. 6000.00

Total: Rs. 94999.43

Say, Rs. 95000.00

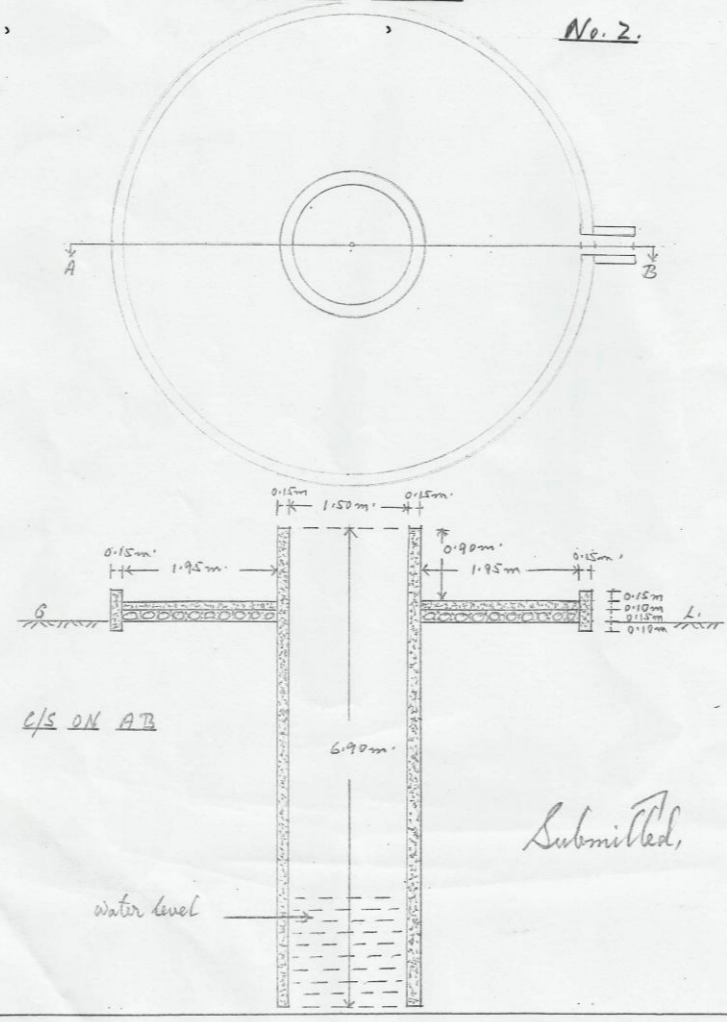
@ 95000 x 2 Nos. =190000.00

Rupees (one lakh ninety thousand) only.

Submitted,

PLAN FOR CONSTRUCTION OF C.C. RING WELL
AT WALKAM UNDER IWMP-XII
NOT TO SCALE

No. 2.



ESTIMATE FOR CONSTRUCTION OF C.C. RINGWELL AT REKING UNDER DILMA WATERSHED IWMP- XII AS PER THE P.W.D. SCHEDULE OF RATES FOR ROADS, BRIDGES AND E & D WORKS FOR THE YEAR 2011-2012 IN TURA AND WILLIAMNAGAR CIRCLES.

1. Site preparation - - - L.S. - - - - - Rs. 1270.00

2/134(VA) Earth work in Excavation for C.C. Ring well including cutting, dressing and removal of spoils etc. Complete.

(i) $\frac{22}{7} \times (0.90)^2 \times 1.50\text{m}$ (1st layer) = 3.818 m³
 @Rs.318.00/m³ - - - - = Rs. 1214.12

(ii) $\frac{22}{7} \times (0.90)^2 \times 1.50\text{m}$ (2nd layer) = 3.818 m³
 @Rs.318.00/m³ x 2 times - - - = Rs. 2428.24

(iii) $\frac{22}{7} \times (0.90)^2 \times 1.50\text{m}$ (3rd layer) = 3.818 m³
 @Rs.318.00/m³ x 3 times - - - = Rs. 3642.36

(iv) $\frac{22}{7} \times (0.90)^2 \times 1.50\text{m}$ (4th layer) = 3.818 m³
 @Rs.318.00/m³ x 4times - - - = Rs. 4856.48

(v) $\frac{22}{7} \times (0.90)^2 \times 1.50\text{m}$ (5th layer) = 3.818 m³
 @Rs.318.00/m³ x 5times - - - = Rs. 6070.60

Total = Rs. 18211.80 Rs. 18211.80

3/139(B) P.C.C. works in prop. 1:3:6 in Ring well with crush stone aggregate of 40 mm nominal size including curing for 14 days .

C.C. Works

$$\frac{22}{7} \times (0.90)^2 \times 7.50 \text{ m} = 19.092 \text{ m}^3$$

Deduction for Hollows

$$\frac{22}{7} \times (0.75)^2 \times 7.50 \text{ m} = (-) 13.259 \text{ m}^3$$

$$\text{Total} = 5.833 \text{ m}^3$$

@ Rs.5122.00/m³ - - - - - Rs. 29876.62

4/104(1) Providing brick masonry work in cement mortar 1:4 around the plate for of C.C. Ring well etc.

$$\frac{22}{7} \times (300)^2 \times 0.50 \text{m} = 14.1426 \text{ m}^2$$

$$\frac{22}{7} \times (2.85)^2 \times 0.15 \text{m} = 3.8291 \text{ m}^2$$

$$\text{Total} = 17.9717 \text{ m}^3$$

Deduction P/F & Hollow

$$\frac{22}{7} \times (2.85)^2 \times 0.50 \text{m} = 12.7636 \text{ m}^3$$

$$\frac{22}{7} \times (0.90)^2 \times 0.15 \text{m} (-) = 0.3818 \text{ m}^3$$

$$13.1454 \text{ ----- } (-) \underline{13.1454 \text{ m}^3}$$

$$\text{Total} = 4.8263 \text{ m}^3$$

@Rs.5312/m³ - - - - - Rs. 25637.30

5/6.12 Providing and laying flooring laid over with C.C. on the bed of the platform.

$$\frac{22}{7} \times (2.85)^2 \times 0.10 \text{m} = 2.5527 \text{ m}^3$$

Deduction for Hollow

$$\frac{22}{7} \times (0.75)^2 \times 0.10 \text{m} = (-) 0.1767 \text{ m}^3$$

**ESTIMATE FOR COSTRUCTION OF SPRING CHAMBER ACROSS THE TE.KRA STREAM AT REKING UNDER DILMA WATERSHED I.W.M.P. - XII
AS PER THE P.W.D. SCHEDULE OF RATES FOR ROADS,BRIDGES AND E & D WORKS FOR THE YEAR 2011-2012 TURA CIRCLE AND WILLIAMANGAR CIRCLE.**

1. Site preparation - - - - L.S. - Rs. 236.00

2/134(iii) A. Earth work in excavation for foundation of the structure including cutting, dressing and removal of spoils etc. complete.

Dam - 6.00 m x 0.90 m x 1.25 m x 1 No. = 6.75 m³
W/Wall- 2.45 m x 0.90 m x 1.25 m x 2 Nos. = 5.57 m³
P/Form - 4.00 m x 2.00 m x 0.40 m x 1 No. = 3.20 m³
T/Wall - 4.00 m x 0.60 m x 1.25 m x 1 No. = 3.00 m³
= 18.46 m³

@ 276/-m³ - - - - - Rs. 5094.96

3/102. Providing stone soling with C.C.in prop. 1:3 in base foundation including carrisge of sand and stone within 200 m.

Dam - 6.00 m x 0.90 m x 0.15 m x 1 No. = 0.810 m³
W/Wall - 2.45 m x 0.90 m x 0.15 m x 2 Nos. = 0.661 m³
P/Form - 4.00 m x 2.00 m x 0.15 m x 1 No. = 1.200 m³
T/Wall - 4.00 m x 0.60 m x 0.15 m x 1 No. = 0.360 m³
= 3.031 m³

@ 3557/-m³ - - - - - Rs. 10781.26

4/139 B. Providing C.C.Work in prop.1:2:4 with hard broken stone aggregate of 40 mm including carriage of stone aggregate and sand within 200 m.

Dam - 6.00 m x 0.60 m x 1.10 m x 1 No. = 3.960 m³
Dam - 6.00 m x 0.45 m x 1.60 m x 1No. = 4.320 m³
W/Wall - 2.45 m x 0.60 m x 1.10 m x 2 Nos. = 3.234 m³
W/Wall - 2.45 m x 0.45 m x 1.60 m x 2 Nos. = 3.528 m³
P/Form - 4.00 m x 2.00 m x 0.10 m x 1 No. = 0.800 m³

**ESTIMATE FOR COSTRUCTION OF C.C SPRING CHAMBER AT TE-KRA STREAM AT DAPBOLPARA UNDER DILMA WATERSHED I.W.M.P. - XII
AS PER THE P.W.D. SCHEDULE OF RATES FOR ROADS,BRIDGES AND E & D WORKS FOR THE YEAR 2011-2012 TURA CIRCLE AND WILLIAMANGAR CIRCLE.**

1. Site preparation - - - - L.S. - Rs. 900.00

2/134(iii) A. Earth work in excavation for foundation of the structure including cutting, dressing and removal of spoils etc. complete.

Dam - 6.00 m x 0.90 m x 1.25 m x 1 No. = 6.75 m³
W/Wall- 2.20 m x 0.90 m x 1.25 m x 2 Nos. = 4.95 m³
Apron - 4.00 m x 2.00 m x 0.40 m x 1 No. = 3.20 m³
T/Wall - 4.00 m x 0.60 m x 1.25 m x 1 No. = 3.00 m³
= 17.90 m³

@ 276/-m³ - - - - - Rs. 4940.40

3/102. Providing stone soling with C.C.in prop. 1:3 in base foundation including carrisge of sand and stone within 200 m.

Dam - 6.00 m x 0.90 m x 0.15 m x 1 No. = 0.810 m³
W/Wall - 2.20 m x 0.90 m x 0.15 m x 2 Nos. = 0.594 m³
Apron - 4.00 m x 2.00 m x 0.15 m x 1 No. = 1.200 m³
T/Wall - 4.00 m x 0.60 m x 0.15 m x 1 No. = 0.360 m³
= 2.964 m³

@ 3557/-m³ - - - - - Rs. 10542.95

4/139 B. Providing C.C.Work in prop.1:2:4 with hard broken stone aggregate of 40 mm including carriage of stone aggregate and sand within 200 m.

Dam - 6.00 m x 0.60 m x 1.10 m x 1 No. = 3.960 m³
Dam - 6.00 m x 0.45 m x 1.60 m x 1No. = 4.320 m³
W/Wall - 2.20 m x 0.60 m x 1.10 m x 2 Nos. = 2.904 m³
W/Wall - 2.20 m x 0.45 m x 1.60 m x 2 Nos. = 3.168 m³
Apron - 4.00 m x 2.00 m x 0.10 m x 1 No. = 0.800 m³

$$\begin{aligned} \text{T/Wall} - 4.00 \text{ m} \times 0.30 \text{ m} \times 1.10 \text{ m} \times 1 \text{ No.} &= \underline{1.320 \text{ m}^3} \\ &= 16.472 \text{ m}^3 \end{aligned}$$

@ 5122/-m³ - - - - - Rs. 84369.58

5. Shuttering with dressed planks not less than 25 mm thick properly joined and removal of the same after the concrete hardened.

$$\begin{aligned} \text{Dam} - 6.10 \text{ m} \times 2.70 \text{ m} \times 2 \text{ side} \times 1 \text{ No.} &= 32.94 \text{ m}^2 \\ \text{W/Wall} - 2.20 \text{ m} \times 2.70 \text{ m} \times 2 \text{ side} \times 2 \text{ Nos.} &= 23.76 \text{ m}^2 \\ \text{T/Wall} - 4.00 \text{ m} \times 1.10 \text{ m} \times 2 \text{ side} \times 1 \text{ No.} &= \underline{8.80 \text{ m}^2} \\ &= 65.50 \text{ m}^2 \end{aligned}$$

@ 450/- m² - - - L.S. - - - Rs. 29475.00

6/139 A. 12mm thick cement plastering in prop.1:3 including clearing the surfaces and curing of sand within 200 m. Complete.

$$\begin{aligned} \text{Dam} - 6.00 \text{ m} \times 0.30 \text{ m} \times 1 \text{ No.} &= 1.80 \text{ m}^2 \\ \text{Dam} - 6.00 \text{ m} \times 1.60 \text{ m} \times 2 \text{ Nos.} &= 19.20 \text{ m}^2 \\ \text{W/Wall} - 2.20 \text{ m} \times 0.30 \text{ m} \times 2 \text{ Nos.} &= 1.32 \text{ m}^2 \\ \text{W/Wall} - 2.20 \text{ m} \times 1.60 \text{ m} \times 4 \text{ Nos.} &= 14.08 \text{ m}^2 \\ \text{Apron} - 4.00 \text{ m} \times 2.00 \text{ m} \times 1 \text{ No.} &= 8.00 \text{ m}^2 \\ \text{Apron} - 4.00 \text{ m} \times 0.60 \text{ m} \times 1 \text{ No.} &= 2.40 \text{ m}^2 \\ \text{Apron} - 2.00 \text{ m} \times 0.60 \text{ m} \times 2 \text{ Nos.} &= \underline{2.40 \text{ m}^2} \\ &= 49.20 \text{ m}^2 \end{aligned}$$

@ 97/-m² - - - - - Rs. 4772.40

Total Rs.135000.33

Or Say, Rs.135000.33

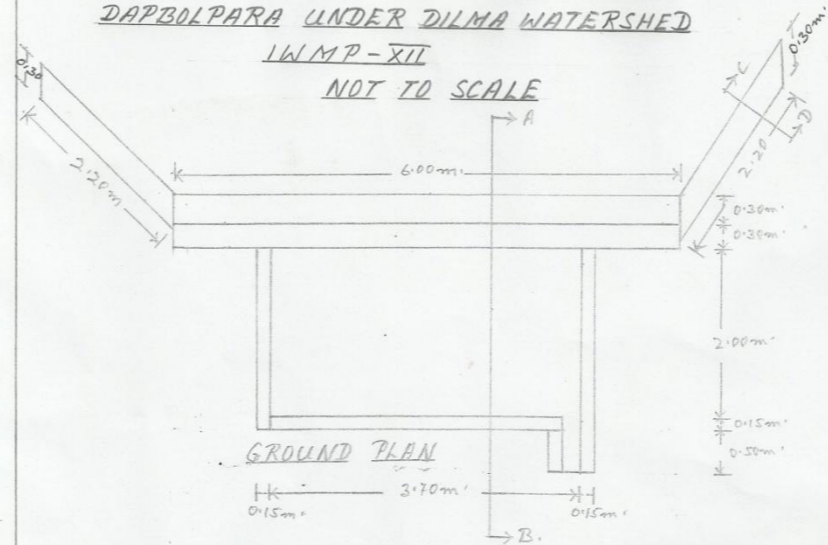
Rupees (One lakh thirty five thousand) only.

Submitted.

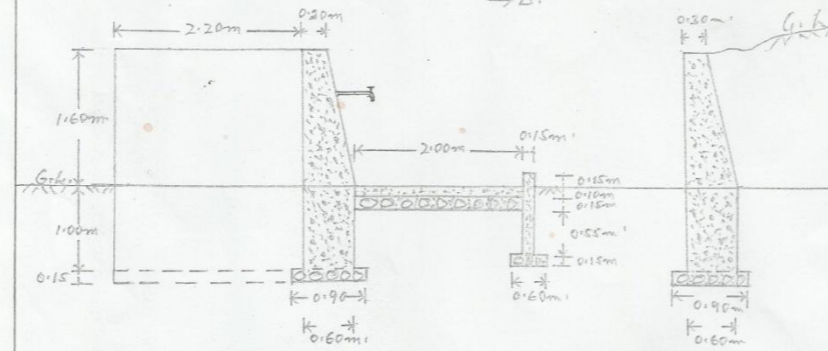
PLAN FOR CONSTRUCTION OF C.C. SPRING
CHAMBER ACROSS THE TEKRA STREAM AT
DAPBOLPARA UNDER DILMA WATERSHED

IWMP-XII

NOT TO SCALE



GROUND PLAN



CROSS SECTION AT A.B.

C/S ON C.D.

**ESTIMATE FOR CONSTRUCTION OF SPRING CHAMBER AT CHIGINDE UNDER MREKCHI WATERSHED IWMP-XII AS PER P.W.D. SCHEDULE OF RATES FOR ROADS,
BRIDGES AND E & D WORKS
FOR 2011-2012 FOR TURA AND WILLIAMNAGAR CIRCLES.**

1. Site preparation - - - L.S. - - - - - Rs. 2793.00

2/134(iii) A. Earth work in Excavation for foundation structure including cutting, dressing and removal of spoils etc. Complete.

Tank	6.60m x 0.60m x 1.65m x 2 Nos.	= 13.07 m ³	
Tank	4.00m x 0.60m x 1.65m x 3 Nos.	= 11.88 m ³	
Floor	4.00m x 2.85m x 0.25m x 2 Nos.	= 5.70 m ³	
P/Form	4.60m x 0.60m x 1.00m x 1 No	. = 2.76 m ³	
P/Form	2.00m x 0.60m x 1.00m x 2 Nos.	= 2.40 m ³	P/Form 4.00m x 2.00m x 0.25m x 1 No. = 2.00 m ³
Drainage	5.00m x 0.45m x 0.80m x 2 Nos.	= 3.60 m ³	
Drainage	5.00m x 0.30m x 0.40m x 1 No.	<u>= 0.60 m³</u>	
	Total	= 42.01 m ³	
@Rs.276.00/m ³	- - - - -	- - - - -	Rs. 11594.76

3/102. Providing stone soling with C.C. in prop. 1:3 in foundation bare including ramming, curing and carriage of stone within 200m.

Tank	6.60m x 0.60m x 0.15m x 2 Nos.	= 1.188 m ³	
Tank	4.00m x 0.60m x 0.15m x 3 Nos.	= 1.080 m ³	
Tank	4.00m x 2.85m x 0.15m x 2 Nos.	= 3.420 m ³	
P/Form	4.60m x 0.60m x 0.15m x 1 No.	= 0.414 m ³	
P/Form	2.00m x 0.60m x 0.15m x 2 Nos.	= 0.360 m ³	
P/Form	4.00m x 2.00m x 0.15m x 1 No.	= 1.200 m ³	
Drainage	5.00m x 0.45m x 0.10m x 2 Nos.	= 0.450 m ³	
Drainage	5.00m x 0.30m x 0.10m x 1 No.	<u>= 0.150 m³</u>	
		= 8.262 m ³	
@Rs.3557.00/m ³	- - - - -	- - - - -	Rs. 29.387.93

4/139 B. Providing C.C. work in prop.1:2:4 with hard broken stone aggregate of 40mm including carriage of stone aggregate within 200m.

Tank	6.60m x 0.30m x 3.35m x 2 Nos.	= 13.266 m ³	
Tank	4.00m x 0.30m x 3.35m x 3 Nos.	= 12.060 m ³	
Tank	4.00m x 2.85m x 0.10m x 2 Nos.	= 2.280 m ³	
P/Form	4.60m x 0.30m x 0.85m x 1 No.	= 1.173 m ³	
P/Form	2.00m x 0.30m x 0.85m x 2 Nos.	= 1.020 m ³	
P/Form	4.00m x 2.00m x 0.10m x 1 No.	= 0.800 m ³	
Drainage	5.00m x 0.15m x 0.85m x 2 Nos.	= 1.275 m ³	
Drainage	5.00m x 0.30m x 0.10m x 1 No.	= <u>0.150 m³</u>	
		= 32.024 m ³	
@Rs.5122.00/m ³	- - - - -	- - -	Rs. 164026.92

5/191. Suppling fitting and placing HYSD reinforcement including bending, cranching and tying in portions with black wire. Complete.

Verti	<u>6.60</u> x 3.35m x 0.89 kg x 2 Nos.	= 262.372 kg
	0.15	
Verti	<u>4.60</u> x 3.35m x 0.89 kg x 3 Nos.	= 274.292 kg
	0.15	
Hori	<u>3.35</u> x 6.60m x 0.89 kg x 2 Nos.	= 262.368 kg
	0.15	
Hori	<u>3.35</u> x 4.60m x 0.89 kg x 3 Nos.	= <u>274.294 kg</u>
	0.15	= 1073.326 kg
		Or, Say, 1.073326 tonne

@Rs.59295/tonne - - - - - Rs. 63642.86

6/139 A. 12mm thick cement plastering in prop. 1:3 including cleaning the surfaces curing and carriage of sand within 200m. Complete.

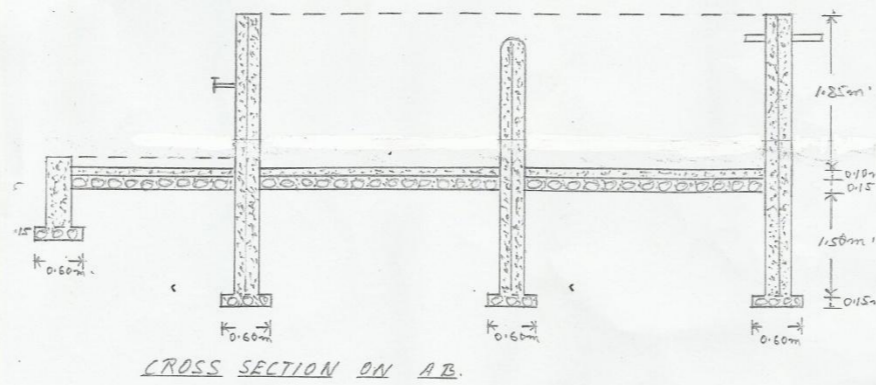
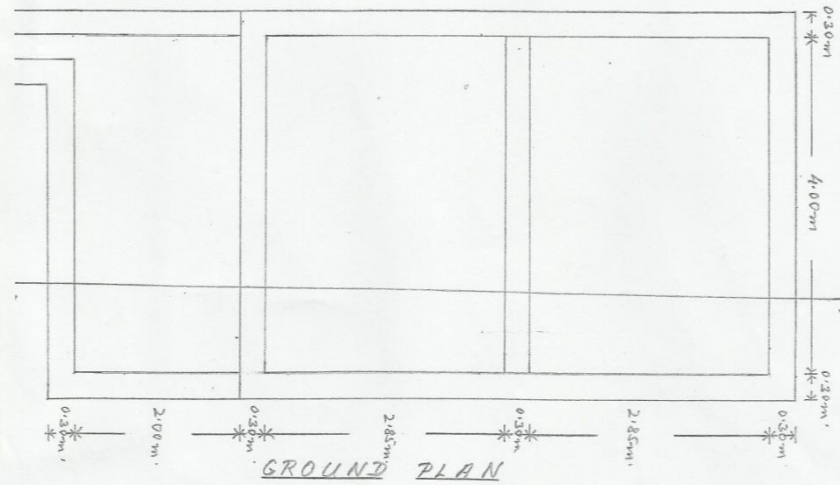
Tank	6.60m x 0.30m x 0.12m x 2 Nos.	= 0.4752 m ³
Tank	4.00m x 0.30m x 0.12m x 3 Nos.	= 0.4320 m ³
Tank	4.00m x 1.85m x 0.12m x 4 Nos.	= 3.5520 m ³

Tank	2.85m x 1.85m x 0.12m x 4 Nos.	= 2.5308 m ³	
Tank	4.00m x 2.85m x 0.12m x 2 Nos.	= 2.7360 m ³	
Tank	6.60m x 1.85m x 0.12m x 2 Nos.	= 2.9304 m ³	
Tank	4.60m x 1.85m x 0.12m x 2 Nos.	= 2.0424 m ³	
P/Form	4.60m x 0.30m x 0.12m x 2 Nos.	= 0.3312 m ³	
P/Form	2.00m x 0.30m x 0.12m x 4 Nos.	= 0.2880 m ³	
P/Form	4.00m x 2.00m x 0.12m x 1 No.	= 0.9600 m ³	
Drainage	5.00m x 0.15m x 0.12m x 2 Nos.	= 0.1800 m ³	
Drainage	5.00m x 0.30m x 0.12m x 3 Nos.	= 0.5400 m ³	
Drainage	0.60m x 0.15m x 0.12m x 2 Nos.	= <u>0.0216 m³</u>	
		= 17.0196 m ³	
@Rs.4028.00/m ³	- - - -	- - -	Rs. <u>68554.94</u>
		Total	Rs. 340000.41
		Say,	Rs. 340000.00

Rupees (Three lakh forty thousand) only.

Submitted,

PLAN FOR CONSTRUCTION OF R.C.C. SPRING CHAMBER
AT CHIGIND UNDER MREKCHI WATERSHED WMP-XII
NOT TO THE SCALE



**ESTIMATE FOR CONSTRUCTION OF SPRING CHAMBER AT DOENI UNDER MREKCHI WATERSHED IWMP-XII AS PER P.W.D. SCHEDULE OF RATES FOR ROADS,
BRIDGES AND E & D WORKS
FOR 2011-2012 FOR TURA AND WILLIAMNAGAR CIRCLES.**

1. Site preparation - - - L.S. - - - - - Rs. 2793.00

2/134(iii) A. Earth work in Excavation for foundation structure including cutting, dressing and removal of spoils etc. Complete.

Tank	6.60m x 0.60m x 1.65m x 2 Nos.	= 13.07 m ³	
Tank	4.00m x 0.60m x 1.65m x 3 Nos.	= 11.88 m ³	
Floor	4.00m x 2.85m x 0.25m x 2 Nos.	= 5.70 m ³	
P/Form	4.60m x 0.60m x 1.00m x 1 No	= 2.76 m ³	
P/Form	2.00m x 0.60m x 1.00m x 2 Nos.	= 2.40 m ³	P/Form 4.00m x 2.00m x 0.25m x 1 No. = 2.00 m ³
Drainage	5.00m x 0.45m x 0.80m x 2 Nos.	= 3.60 m ³	
Drainage	5.00m x 0.30m x 0.40m x 1 No.	= 0.60 m ³	
	Total	= 42.01 m ³	
@Rs.276.00/m ³	- - - - -	- - - - -	Rs. 11594.76

3/102. Providing stone soling with C.C. in prop. 1:3 in foundation bare including ramming, curing and carriage of stone within 200m.

Tank	6.60m x 0.60m x 0.15m x 2 Nos.	= 1.188 m ³	
Tank	4.00m x 0.60m x 0.15m x 3 Nos.	= 1.080 m ³	
Tank	4.00m x 2.85m x 0.15m x 2 Nos.	= 3.420 m ³	
P/Form	4.60m x 0.60m x 0.15m x 1 No.	= 0.414 m ³	
P/Form	2.00m x 0.60m x 0.15m x 2 Nos.	= 0.360 m ³	
P/Form	4.00m x 2.00m x 0.15m x 1 No.	= 1.200 m ³	
Drainage	5.00m x 0.45m x 0.10m x 2 Nos.	= 0.450 m ³	
Drainage	5.00m x 0.30m x 0.10m x 1 No.	= 0.150 m ³	
		= 8.262 m ³	
@Rs.3557.00/m ³	- - - - -	- - - - -	Rs. 29.387.93

4/139 B. Providing C.C. work in prop.1:2:4 with hard broken stone aggregate of 40mm including carriage of stone aggregate within 200m.

Tank	6.60m x 0.30m x 3.35m x 2 Nos.	= 13.266 m ³	
Tank	4.00m x 0.30m x 3.35m x 3 Nos.	= 12.060 m ³	
Tank	4.00m x 2.85m x 0.10m x 2 Nos.	= 2.280 m ³	
P/Form	4.60m x 0.30m x 0.85m x 1 No.	= 1.173 m ³	
P/Form	2.00m x 0.30m x 0.85m x 2 Nos.	= 1.020 m ³	
P/Form	4.00m x 2.00m x 0.10m x 1 No.	= 0.800 m ³	
Drainage	5.00m x 0.15m x 0.85m x 2 Nos.	= 1.275 m ³	
Drainage	5.00m x 0.30m x 0.10m x 1 No.	= <u>0.150 m³</u>	
		= 32.024 m ³	
@Rs.5122.00/m ³	- - - - -	- - - - -	Rs. 164026.92

5/191. Suppling fitting and placing HYSD reinforcement including bending, cranching and tying in portions with black wire. Complete.

Verti	<u>6.60</u> x 3.35m x 0.89 kg x 2 Nos.	= 262.372 kg
	0.15	
Verti	<u>4.60</u> x 3.35m x 0.89 kg x 3 Nos.	= 274.292 kg
	0.15	
Hori	<u>3.35</u> x 6.60m x 0.89 kg x 2 Nos.	= 262.368 kg
	0.15	
Hori	<u>3.35</u> x 4.60m x 0.89 kg x 3 Nos.	= <u>274.294 kg</u>
	0.15	= 1073.326 kg
		Or, Say, 1.073326 tonne

@Rs.59295/tonne - - - - - Rs. 63642.86

6/139 A. 12mm thick cement plastering in prop. 1:3 including cleaning the surfaces curing and carriage of sand within 200m. Complete.

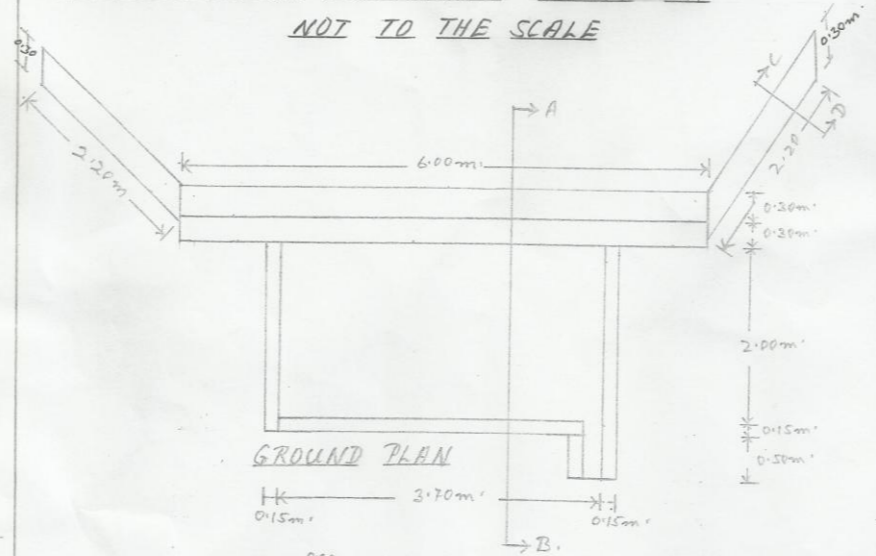
Tank	6.60m x 0.30m x 0.12m x 2 Nos.	= 0.4752 m ³
Tank	4.00m x 0.30m x 0.12m x 3 Nos.	= 0.4320 m ³
Tank	4.00m x 1.85m x 0.12m x 4 Nos.	= 3.5520 m ³
Tank	2.85m x 1.85m x 0.12m x 4 Nos.	= 2.5308 m ³
Tank	4.00m x 2.85m x 0.12m x 2 Nos.	= 2.7360 m ³

Tank	6.60m x 1.85m x 0.12m x 2 Nos.	=	2.9304 m ³	
Tank	4.60m x 1.85m x 0.12m x 2 Nos.	=	2.0424 m ³	
P/Form	4.60m x 0.30m x 0.12m x 2 Nos.	=	0.3312 m ³	
P/Form	2.00m x 0.30m x 0.12m x 4 Nos.	=	0.2880 m ³	
P/Form	4.00m x 2.00m x 0.12m x 1 No.	=	0.9600 m ³	
Drainage	5.00m x 0.15m x 0.12m x 2 Nos.	=	0.1800 m ³	
Drainage	5.00m x 0.30m x 0.12m x 3 Nos.	=	0.5400 m ³	
Drainage	0.60m x 0.15m x 0.12m x 2 Nos.	=	<u>0.0216 m³</u>	
		=	17.0196 m ³	
@Rs.4028.00/m ³	-	-	-	-
				<u>Rs. 68554.94</u>
		Total		Rs. 340000.41
		Say,		Rs. 340000.00

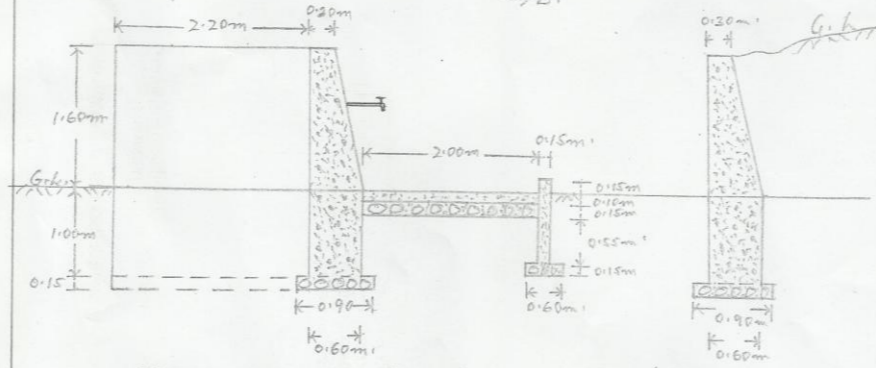
Rupees (Three lakh forty thousand) only.

Submitted,

PLAN FOR CONSTRUCTION OF SPRING CHAMBER
ACROSS THE RESERVE STREAM AT DILMA ADAP
UNDER DILMA WATERSHED IWMP-XII
NOT TO THE SCALE



GROUND PLAN



CROSS SECTION AT AB.

C/S ON CD.

**ESTIMATE FOR COSTRUCTION OF C.C SPRING CHAMBER AT TE-KRA STREAM AT
DILMA A-DAP UNDER DILMA WATERSHED I.W.M.P. - XII
AS PER THE P.W.D. SCHEDULE OF RATES FOR ROADS,BRIDGES AND E & D WORKS FOR THE YEAR 2011-2012 TURA CIRCLE AND WILLIAMANGAR CIRCLE.**

1. Site preparation - - - - L.S. - Rs. 900.00

2/134(iii) A. Earth work in excavation for foundation of the structure including cutting, dressing and removal of spoils etc. complete.

Dam - 6.00 m x 0.90 m x 1.25 m x 1 No. = 6.75 m³
W/Wall- 2.20 m x 0.90 m x 1.25 m x 2 Nos. = 4.95 m³
Apron - 4.00 m x 2.00 m x 0.40 m x 1 No. = 3.20 m³
T/Wall - 4.00 m x 0.60 m x 1.25 m x 1 No. = 3.00 m³
= 17.90 m³

@ 276/-m³ - - - - - Rs. 4940.40

3/102. Providing stone soling with C.C.in prop. 1:3 in base foundation including carrisge of sand and stone within 200 m.

Dam - 6.00 m x 0.90 m x 0.15 m x 1 No. = 0.810 m³
W/Wall - 2.20 m x 0.90 m x 0.15 m x 2 Nos. = 0.594 m³
Apron - 4.00 m x 2.00 m x 0.15 m x 1 No. = 1.200 m³
T/Wall - 4.00 m x 0.60 m x 0.15 m x 1 No. = 0.360 m³
= 2.964 m³

@ 3557/-m³ - - - - - Rs. 10542.95

4/139 B. Providing C.C.Work in prop.1:2:4 with hard broken stone aggregate of 40 mm including carriage of stone aggregate and sand within 200 m.

Dam - 6.00 m x 0.60 m x 1.10 m x 1 No. = 3.960 m³
Dam - 6.00 m x 0.45 m x 1.60 m x 1No. = 4.320 m³
W/Wall - 2.20 m x 0.60 m x 1.10 m x 2 Nos. = 2.904 m³
W/Wall - 2.20 m x 0.45 m x 1.60 m x 2 Nos. = 3.168 m³
Apron - 4.00 m x 2.00 m x 0.10 m x 1 No. = 0.800 m³
T/Wall - 4.00 m x 0.30 m x 1.10 m x 1 No. = 1.320 m³

$$= 16.472 \text{ m}^3$$

@ 5122/-m³ - - - - - - - - - - Rs. 84369.58

5. Shuttering with dressed planks not less than 25 mm thick properly joined and removal of the same after the concrete hardened.

Dam – 6.10 m x 2.70 m x 2 side x 1 No. = 32.94 m²

W/Wall – 2.20 m x 2.70 m x 2 side x 2 Nos. = 23.76 m²

T/Wall – 4.00 m x 1.10 m x 2 side x 1 No. = 8.80 m²
= 65.50 m²

@ 450/- m² - - - L.S. - - - - - Rs. 29475.00

6/139 A. 12mm thick cement plastering in prop.1:3 including clearing the surfaces and curing of sand within 200 m. Complete.

Dam – 6.00 m x 0.30 m x 1 No. = 1.80 m²

Dam – 6.00 m x 1.60 m x 2 Nos. = 19.20 m²

W/Wall – 2.20 m x 0.30m x 2 Nos. = 1.32 m²

W/Wall – 2.20 m x 1.60 m x 4 Nos. = 14.08 m²

Apron – 4.00 m x 2.00 m x 1No. = 8.00 m²

Apron – 4.00 m x 0.60 m x 1 No. = 2.40 m²

Apron – 2.00 m x 0.60 m x 2 Nos. = 2.40m²
= 49.20 m²

@ 97/-m² - - - - - - - - - - Rs. 4772.40

Total Rs.135000.33

Or Say, Rs.135000.33

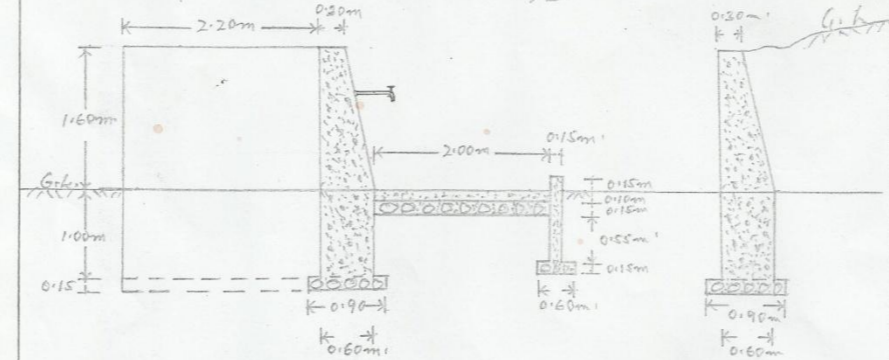
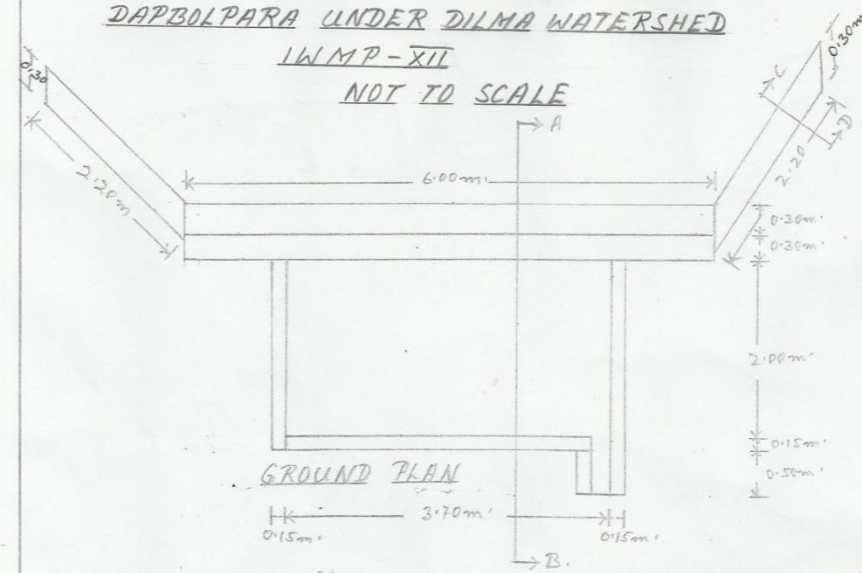
Rupees (One lakh thirty five thousand) only.

Submitted.

PLAN FOR CONSTRUCTION OF C.C. SPRING
CHAMBER ACROSS THE TEKRA STREAM AT
DAPBOLPARA UNDER DILMA WATERSHED

LWMP - XII

NOT TO SCALE



CROSS SECTION AT AB.

C/S ON CD.