DETAILED PROJECT REPORT

1. WAH LAMA **2. RAMUT**

INTEGRATED WATERSHED MANAGEMENT PROJECT

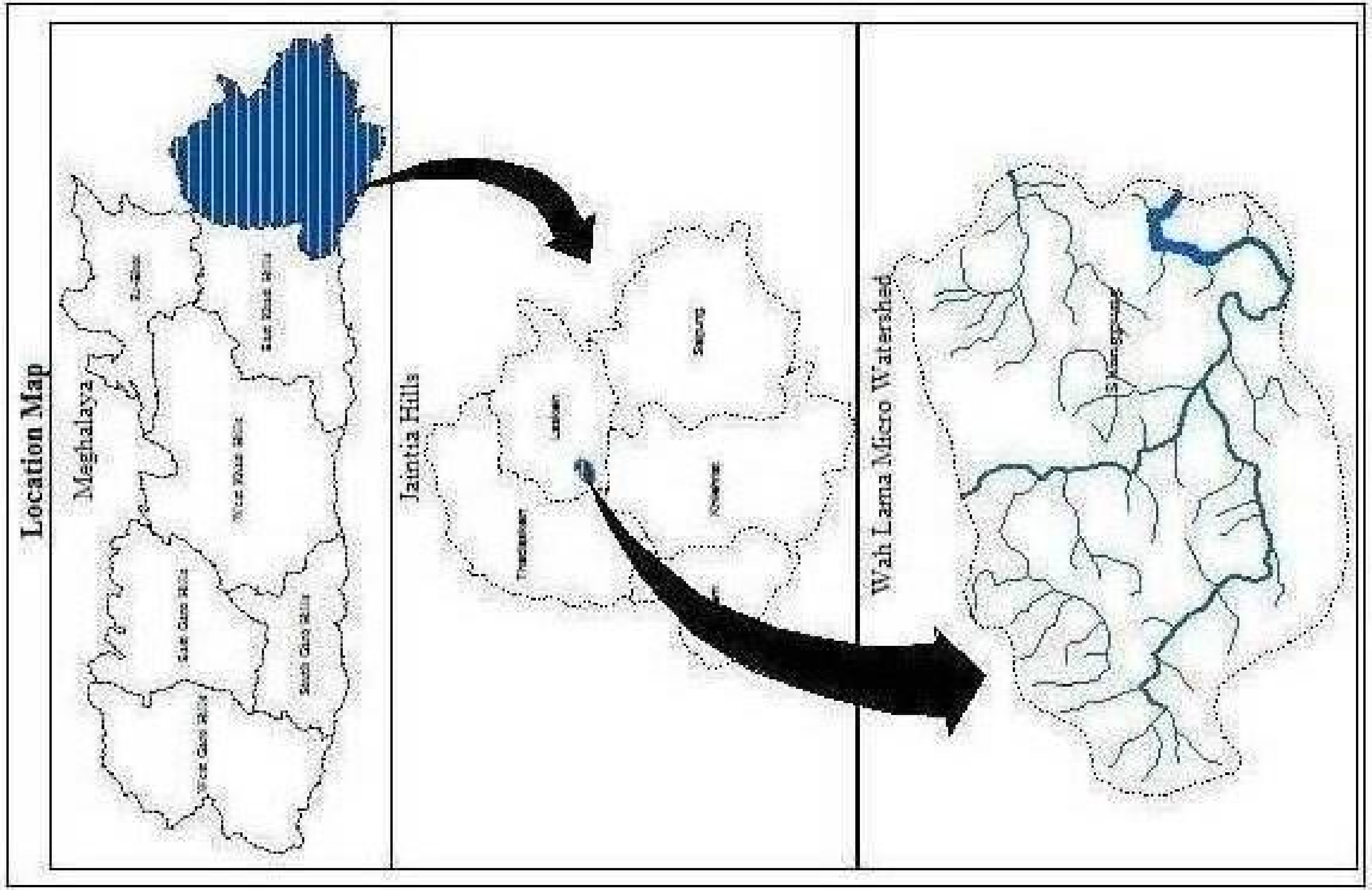
JH - IWMP – IV

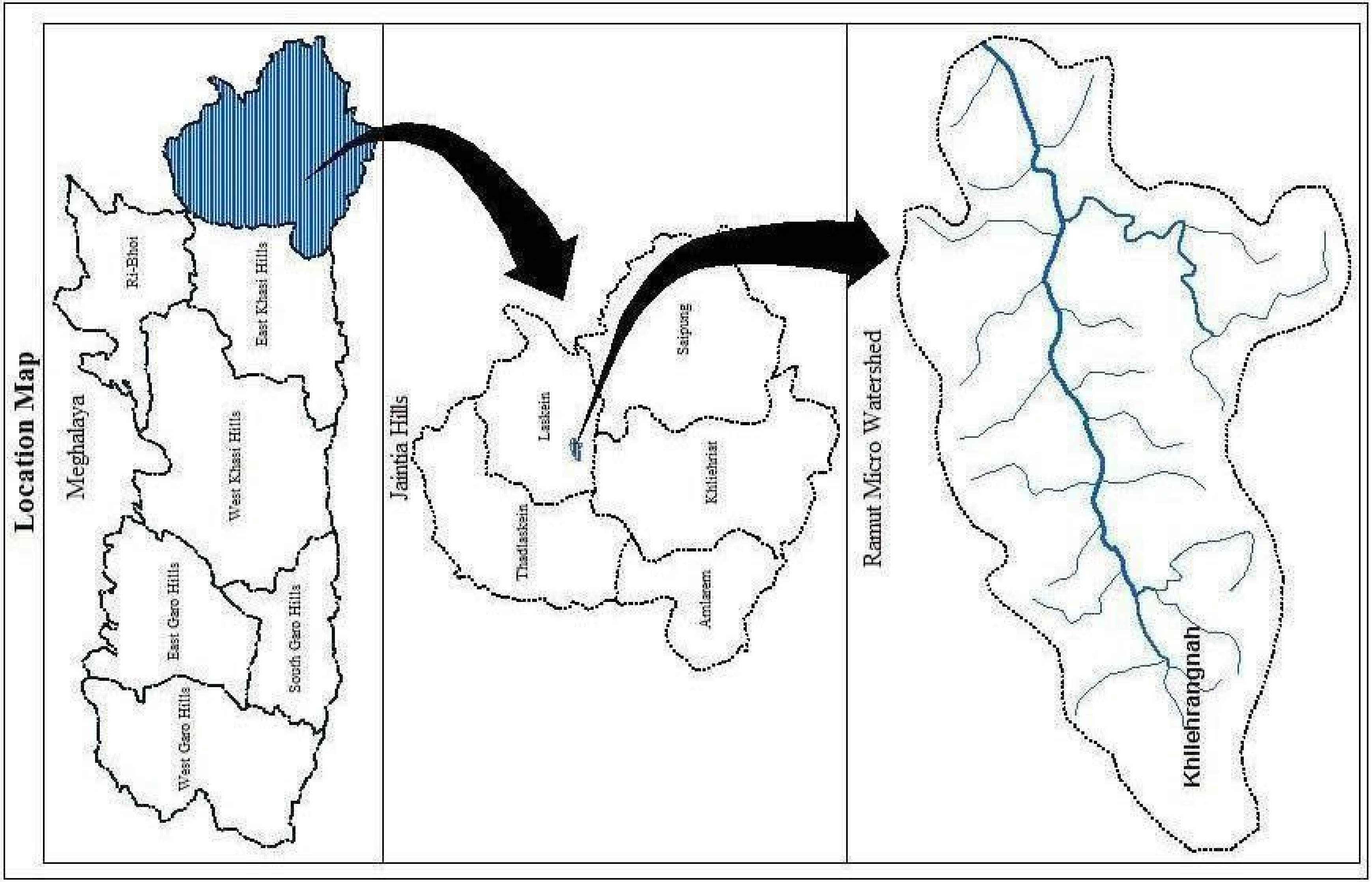
2010-2011

LASKEIN C& RD BLOCK

JAINTIA HILLS DISTRICT

MEGHALAYA


Location Map
Meghalaya
Jaintia Hills
Wah Lama Micro Watershed


Location Map
Meghalaya
Ri-Bhoi
East Khasi Hills
West Khasi Hills
East Garo Hills
South Garo Hills
West Garo Hills
Jaintia Hills
Laskein
Saipung
Khliehriat
Thadlaskein
Amlarem
Ramut Micro Watershed
Khlehrangnah

SUMMARY OF THE PROJECT.

Name of the State	**:-**	Meghalaya	
Name of the District	**:-**	Jaintia Hills	
Name of the C & RD Block	**:-**	laskien	
Name of the Project	**:-**	Jaintia Hills – IWMP-IV	
Total Geographical Area	**:-**	2125 Ha.	
Total Treatment Area	:-	2000Ha.	
Total Project Cost	:-	300 Lakhs	
Project Duration	:-	5 Years	
Name of the Micro Watershed	:-	(i) Wah Lama –	(ii) Ramut – Khliehrangnah
With Name of the Villages		(i) Shangpung	(ii) Khliehrangnah
Project Implementing Agency	:-	Soil & Water Conservation Territorial Division, Jowai.	

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INTRODUCTION AND BACKGROUND

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1.1 Project Background:

The JH-IWMP-IV is derived from the C&RD Block (Laskein C&RD Block) falls in the Jaintia Hills District. There are 2 Nos of Micro Watershed in cluster and 2 Nos of villages. They are : (i).Wahlama M/W- Shangpung village, (ii).Ramut M/W – Khliehrangnah. All the 2 Nos of Micro Watershed drained by the Umiurem River flowing from West to East.

1.2 Micro Watershed Information:

The micro-watershed code is (1) Wahlama-3B2C5a1k,(2) Ramut-3B2C5a1a, as codified by the North East Space Application Centre (NESAC). The total area of the micro-watershed is 2125 Ha. with 2000 hectares to be treated under the Integrated Watershed Management Programme (IWMP).

1.3 Need and Scope for Watershed Development:

The micro-watersheds falls under the High Priority category as per the prioritization of watersheds by the North East Space Application Centre (NESAC). The general topography of the area is an undulating often covered with grassy blanks of enormous size accordingly dotted with pine trees individually or in small groups. The ground is generally gentle sloping with slopes varying between 10 percent to 60 percent. It is only near the tributaries with Umiurem River that the ground becomes comparatively steeper based on the elevation, the land can be divided into three physiographic units (i) Intermediate plateau with gradient above 33 percent slope (2) Lower plateau with gradient ranges from 15 to 33 percent slope (3) Valley rolling, undulating almost flat gradient ranging from 1 to 15 percent slope. The area is mainly drained by Umiurem River. There are lot of scope for land development, agro-forestry, agro-horticulture for increasing the livelihood and agricultural product and also to enhance the ground water table in the watershed area..

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

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

i. MGNREGS
iii. Total Sanitation Campaign (TSC)
iii. Swarnjayanti Gram Swarozgar Yojana (SGSY)
iv. Indira Awas Yojana (IAY)

CHAPTER II

BASIC INFORMATION OF THE PROJECT AREA

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BASIC INFORMATION OF THE PROJECT AREA

2.1 Location:

The project area under report is located in the catchment of Umiurem river according to the Survey of India toposheet No. 83 $\frac{C}{6}$, it is situated between north Latitude 25^0 .40 and 25^0.34" and East Longitude 92^0 .17" and 92^0 .21". The project area is falls within the Laskein C&RD Block of Jaintia Hills District and it is about 40 km from Jowai the Head Quarter of the Jaintia Hills District and is spread over 2 villages (i) Shangpung (ii) Khliehrangnah . The total area of JH-IWMP-IV is about 2125 ha, out of which 2000 Ha is proposed for treatment under different Soil & Water Conservation activities having a length of 8 km and width varies from 2.50 kms to 3.00 kms. At present the area is connected partly by metalled road and partly by Kacha road.

2.2 Physiography:

The area is feather in shape. The Hills ranges rise to the Maximum altitude of 1200 mts above sea level. The lowest point in the area is situated above the bank of Umiurem River at an elevation of 600 mts above the sea level. The general topography of the area is an undulating offen covered with grassy blanks of enormous size accordingly dotted with pine trees individually or in small groups. The ground is generally gentle sloping with slopes varying between 10 percent to 60 percent. It is only near the tributaries with Umiurem River that the ground becomes comparatively steeper based on the elevation, the land can be divided into three physiographic units (i) Intermediate plateau with gradient above 33 percent slope (2) Lower plateau with gradient ranges from 15 to 33 percent slope (3) Valley rolling, undulating almost flat gradient ranging from 1 to 15 percent slope. The area is mainly drained by Umiurem River. The over all drainage patterns is excessive and normal.

Table 2.1: Physiographic Details

Elevation (metres)	Slope Range (%)	Order of watershed Sub/Micro-watershed	Major streams	Topography
1120 m to 1360 m	0% to 60 %	Micro Watershed	Umiurem	Modarate Sloping

2.3 Drainage: The major stream draining the micro-watershed is the Umiurem river which is a 1st order stream flowing from west to east direction. The slopes of the micro-watershed are dissected by numerous small tributaries flowing to the Umiurem river.

2.4 Soil: The most common texture of the Soil in the Project is reddish clayey loam with top humus layer of about 4cm deep. The depth of Soil generally varies between 80cm and 180cm, excessively drained, fine soil having loamy surface with moderate erosion hazard. Chemically the Soils are acidic in nature (ph value 6 and below) low in Nitrogen and Phosphorous and medium in Potassium content.

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

1	2	3	4	5	6	7	8	9
Sl. No.	Name of States	Name of District	Name of Projects	Cause	Types of erosion	Area affected (ha)	Run-off (mm/year)	Average soil loss (Tonnes/ha/year)
1	Meghalaya	Jaintia Hills	JH-IWMP-IV	Water erosion				
				a	Sheet	NA	1400 – 2200	10.5 – 32.5
				b	Rill	NA	1400 – 2200	10.5 – 32.5
				c	Gully	NA	1400 – 2200	10.5 – 32.5
				Sub total		NA		
				Wind erosion		NA		

2.5 Climate: The JH-IWMP-IV is located in the Hills of Northern scopes 1200 – 1600 mts altitude from the mean Sea level of Agro-Climatic Sub-zone. From November to March the weather is dry, nights is cold with the onset of South Western Monsoon the atmospheric temperature and humidity start rising. The mean temperature varies between maximum of 24.80^{0}C and minimum of 8.5^{0}C and humidity is varies between 94.20 and 55.30. the Maximum and annual rainfall for 5 yeas are 3180.6 mm and 2895.20 mm respectively. The average rainfall has been about 1215.16mm.

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)	Name of the Districts	Name of the Projects	Major soil types		Average rainfall in mm (preceding 5 years average)	Major crops	
						a) Type	b) Area (ha)		a) Name	b)Area (ha)
	Meghalaya	Central Thermic Plateau								
		1200 – 1600m	2125	Jaintia Hills	JH-IWMP-IV	Loam to clay Loam	2125	1215.16	Paddy	336
									Maize	25
									Turmeric	28

2.6 Agriculture: Agriculture is the primary occupation of the people of the area. The people mostly cultivated in rainfed areas The cultivated rainfed areas varies vary from 0.5 to 1.0 Ha per family, The principal agricultural crops grown are paddy, maize, turmaric, and vegetables. The farmer also grow horticulture like orange, jack fruit,mango,pears,peach,plum,etc in their homestead garden which contribute to their income.

Table 2.4: Crop yield and production

Crops	Area (ha)	Average Yield (Qtl) per ha.	Total Production (Qtl.)
Paddy	336	8-10	2680-3360
Maize	25	15	375
Turmeric	28	20	560

2.7 Natural Vegetation:-The catchment has large coverage of waste and tree clad open land often created as a result of past jhuming. Though the intensity of cattle grazing and felling of pine trees is not too heavy, there is no scientific range management and grazing takes place. In the project area, predominantly of Pinus khasiya are found with sprinkling miscellaneous forest. The common species are:-

- Quercus Species (Diengsning; Diengsai).
- Castonopsis Species (Diengstap, Diengsoh ot).
- Michelus Species (Diengrang)
- Betula anoides (Dienglieng).
- Schima Wallichii (Diengngan).
- Myrica negre (Diengsoh phie)
- Carpinus Mancany Species (Diengsohrisang).

The prevalent creepers are listed below:

- Holbocilia latifolia (Soh lyngkait)
- Embelia floribenda (Jajew).
- Celastone feniculate (Mei-jynru).

2.8 Socio-Economic Profile: Socio- Economic Survey was conducted in all the 2 villages of the project area. A simple proforma was designed to collect information. The project area is in habitat by pnar population who are mainly dependent on agriculture of their livelihood.

Table showing the population, sex, agri-workers and occupation of 2 villages of JH-IWMP-IV (2010-2011)

Sl No.	Villages	No.of family	Total Population	Sex				Agri-workers	Literacy		Occupation
				Male A	Female A	Boys M	Girls M		Male	Female	
1.	Shangpung	869	6006	2962	3044	1481	1595	3468	1097	1254	
2.	Khliehrangnah	268	1722	845	877	587	612	987	812	910	
	Total-	1137	7728	3807	3921	2068	2207	4455	1909	2164	

<u>Socio- Economic Condition</u>:- The Socio Economic set up of the people in the project area is very poor. The average annual income is about Rs. 18,000/-year/ household, since the prime occupation of the people is Agriculture (Mono- agriculture).

Infrastructure facilities **:**

2.1.0 *Roads:* All the villages within the Project Area are connected partly by metalled road and partly by Kacha road.

2.1.1 *School:* there are 7 nos of upper primary school; 15 nos of LP Schools; 1 no of Higher Secondary School and 3 nos of Secondary School within the Project Area.

2.1.2 *Electricity:* Connections have been provided but some villages are yet to have electricity.

2.1.3 *Health:* There are 2 nos Community Health Centre and 1 no Animal Husbandry Health centre in the project areas.

2.1.4 *Water Supply:* Drinking water supply has been provided by the PHE Deptt. However, during lean season the entire population has to depend on springs available in the area as the supply is not sufficient to meet the daily requirement.

2.1.5 *Market:* There is a weekly market held once in a week at Shangpung. However, the main market where the people sell their produce is at at iaw musiang Jowai.

Table 2.5: Infrastructure Status:

1	2	3		4			
Name of District	Name of Project	Parameters:		Status			
Jaintia Hills	JH-IWMP- IV	(i)	No. of villages connected to the main road by an all-weather road.	2			
		(ii)	No. of village provided with electricity	2			
		(iii)	No. of households without access to drinking water	2			
		(iv)	No. of educational institutions: Primary (P)/ Secondary (S)/ Higher Secondary (HS)/ Vocational institution (VI)	(P) 22	(S) 3	(HS) 1	(VI) Nil
		(v)	No. of village with access to Primary Health Centre	2			
		(vi)	No. of village with access Veterinary Dispensary	1			
		(vii)	No. of village with access Post Office	1			
		(viii)	No. of village with access Banks	1			
		(ix)	No. of village with access Markets/ mandis	1			
		(x)	No. of village with access Agro-Industries	Nil			
		(xi)	Total quantity of surplus milk	Nil			
		(xii)	No. of milk collection centres (e.g. Union (U)/ Society (S)/ Private agency (PA)/ Others (O))	(U) Nil	(S) Nil	(PA) Nil	(O) Nil
		(xiii)	No. of villages with access to Anganwadi Centres	Nil			
		(xiv)	Any other facilities with no. of villages (please specify)	Nil			

2.9 Livestock: there are only 4 kinds of livestock farming being farmed in the area viz. Cattle, Goat, Piggery & Poultry

Table 2.6: Existing livestock population

Type of Animal	Population
Cattle	251
Goat	31
Piggery	308
Poultry	2283
Total	2873

2.10 Land Ownership:

The land may be classified into

- Private land (Ri- Kynti)
- Community land (Ri Raid land) and
- Clan land (Ri Kur land)

Land use :- Valley bottom land are put under permanent cultivation. Sloppy lands are put under shifting cultivation.

Farming system:- A traditional type of farming;

Cropping pattern:- single crop of paddy is practiced.

Table 2.7 L**and holding:**

1	2	3	4	5	6		
Name of District	Name of projects	Types of Farmer	No. of households	No. of BPL household	Land holding (ha)		
					Irrigated	Rainfed	Total
Jaintia Hills	JH-IWMP- IV	(i) Large	Nil	-	-	-	-
		(ii) Small	289	-	-	664	664
		(iii) Marginal	813	116	-	516	516
		(iv) Landless	35	-	-	-	-
		Sub - Total	1137	126	-	1180	1180

Table 2.5: Common Property Resources in the Project Area:

1	2	3	4				5			
Name of District	Name of the Projects	CPR Particulars	Total Area (ha) Area owned/ In possession of				Area available for treatment (ha)			
			Pvt. Person	Govt. (specify deptt)	PRI	Any other (community)	Pvt. Person	Govt. (specify Deptt.)	PRI	Any other (community)
Jaintia Hills	JH-IWMP-IV	(i) Wasteland/ degraded land	569 Ha			862 Ha				1168 Ha
		(ii) Pastures								
		(iii) Private Agriculture land	385 Ha				832 Ha			
		(iv) Village woodlot								
		(v) Forest (degraded)				184 Ha				
		(vi) Village Ponds/ Tanks								
		(vii) Community Buildings		6 nos		4 Nos				
		(viii) Weekly Markets				Shangpung				
		(ix) Permanent Markets				Shangpung				
		(x) Temples/ Places of worship				Church- 3 nos				
		(xi) Others (Pl. specify)				125 Ha				
		Total	954Ha			1171 Ha	832 Ha			1168 Ha

2.11 Land use and land cover :

The different present land use of JH-IWMP- IV is as follows.

Land Use			Area (in Ha)
1. Agricultural land		=	389.00
2. Built – up area (Rural)		=	100.00
3. Tree clad close		=	467.00
4. Tree Clad Open		=	244.00
4. Waste land /Sandy		=	399.00
5. Waste land / open scrub		=	526.00
	Total	=	2125.00

Note: Landuse base from LISS III image 2005-06.

2.12 PROBLEM OF THE AREA

The following are the major problem face by the people & community in the project area.

(All these problem have been identified through the PRA exercise and during the process of details survey of preparation of DPR)

(a) **Scarcity of drinking water**:- Almost all the village are situated in the Ridge area and elevated zone at higher elevation area of the watershed. As result, due to biotic interference and increase population the water resources nearby has dried up and polluted, causing scarcity of water especially during the months of November to April.

(b) **Low agricultural productivity**:- Due to unscientific way of cultivation, eg, lack of soil and water conservation practices, irrigation facilities, proper use of manure and fertilizers, use of insecticides and pesticides, traditional method of cultivation (Cultivation along the slope/Bun and Jhum cultivation), etc. It has resulted in low yield in almost all types of Agricultural and Horticultural crops.

(c) **Poverty**:- Many of the farmers in project area are only marginal land holders where a few numbers of people own a majority of land in the areas. The people in the areas so far depend on agriculture only as main source of livelihood. Others sources of livelihood like Poultry, Piggery, Sericulture, Horticulture, Fishery, etc are still lacking behind in many respect in project area.

(d) **Social Institution**:- Due to low literacy level in all the villages in project area, social institution like SHG, Users Groups, NGOs are very less in the project area. The existing groups who are available at present are also not functioning properly or progress as expected.

(e) **Lack of Infrastructure**:- The villages in the project area suffer lack of infrastructure facilities in many respect like (i) Marketing. (ii) Education. (iii) Transportation & Communication. (iv) Agricultural & Veterinary Services etc.

CHAPTER III

PROJECT PLANNING & INSTITUTION BUILDING

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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 and 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 GIS LAB State Level Nodal Agency Soil & Water Conservation Department Meghalaya using the LISS III images (2006). The activities were located on the field by using GPS and accordingly transferred to the maps on GIS platform.

Table 3.1: Details of Scientific Planning and inputs in IWMP Projects:

1	2	3
Total no of Project sanctioned	**Scientific criteria/ input used**	**No. of project in which Scientific criteria were used**
5Nos JH -IWMP–I to V		
	Cluster approach	3
	Whether technical back – stopping for the project has been arranged? If yes, mention the name of the institute.	GIS LAB State Level Nodal Agency Soil & Water Conservation Department Meghalaya
	Base line survey	Yes
	Hydro- geological survey	No
	Contour mapping	No
	Participatory net planning (PNP)	No
	Remote sensing data – especially Soil / Crop/ Run-off cover	Yes
	Ridge to valley treatment	Yes
	Online IT connectivity between	
	(i) Project and DRDA cell/ ZP	Yes
	(ii) DRDA and SLNA	Yes
	(iii) SLNA and DoLR	Yes
	Availability of GIS layers	
	1 Cadastral map	No
	2 Village boundaries	No
	3 Drainage	Yes
	4 Soil (Soil Nutrient status	Yes

1	2	3
	5 Land use	Yes
	6 .Ground water Status	No
	7. Watershed boundaries	Yes
	8. Activity	Yes
	Crop Simulation models	No
	Integrated coupled analyzer/ near infrared visible spectroscopy/ medium spectroscopy for high speed soil nutrient analyses	No
	Normalized difference vegetation index (NDVI) #	No
	Weather station	No
	(B) Inputs	
	1. Bio-Pesticides	No
	2. organic manure	Yes
	3. Vermicompost	Yes
	4. Bio- fertilizer	Yes
	5. Water saving device	No
	6.Mechanized Tools / Implement	No
	7. Bio- Fencing	Yes
	8. Nutrient budgeting	Yes
	9. Automatic water level recorders & Sediment samplers.	No
	Any other (please specify)	

3.2 Project Implementing Agency:

The PIA is the Soil & Water Conservation Territorial Division, Jowai Jaintia 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	
Name of District	**Name of Project**	**Details of PIA**	
Jaintia Hills	JH-IWMP-IV	1. Type of Organisation #	Government Agency
		2. Name of organization	Soil & Water Conservation
		3. designation & Address	Shri. D. Shallam
		4. Telephone	9436119264
		5.Fax	03652223858
		6.Email	soildivjowai@gmail.com

3.3 Institution Building

i) Watershed Committee (WC)

The Watershed Committee of the Wah Lama & Ramut, JH-IWMP-IV was constituted with the active involvement of the villagers with strong support of the Traditional Institutions (Village Durbar/Council).

Table 3.2: Details of Watershed Committees (WC):

Names of the District	Names of projects	Names of WCs	Date of registration as a Society(dd/mm/ yyyy)	Designation	M/F	SC	ST	SF	MF	LF	Land less	UG	SHG	GP	Any other	Educational qualification	Function/s assigned#
Jaintia Hills Distric -t	JH-IWMP -IV	Wah Lama	Under process	President	M		ST							1		X	A to I
				Member	M		ST				3	1	2	5		X to XII	- do-
				Member	M											Deploma Mechanical Engg.&BA	-do-
		Ramut		Secretary	M		ST								1	Deploma Civil Engg.	-do-
			Under process	President	M		ST				1					BA	-do-
				Member	M		ST				5		1	4		VI to BA	-do-
				Secretary	M		ST								1	Deploma Civil Engg.	-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 Area:

1	2	3				4				5			6		
Name of District	**Name 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**
Jaintia Hills	JH –IWMP-IV	-	1	2	3	(i) Landless	-	-	-	-	-	-	-	-	-
						(ii) SF	20	14	34	20	14	34	-	-	-
						(iii) MF	8	2	10	8	2	10	-	-	-
						(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		
Name of District	**Name of Projects**	**Total no. of UGs**				**No. of Members**				**No. of SC/ ST in each category**			**No. of BPL in each category**		
Jaintia Hills	**JH-IWMP –IV**	**Men**	**Women**	**both**	**Total**	**Categories**	**M**	**F**	**Total**	**M**	**F**	**Total**	**M**	**F**	**Total**
						(i) Landless									
						(ii) SF									
						(iii) MF									
						(iv) LF									
Total															

CHAPTER IV

PROJECT ACTIVITIES

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PROJECT ACTIVITIES

4.1 Preparatory Phase:

i) Entry Point Activities (EPA)

1	2	3	4	5	6	7	8	9	10	11
Sl No.	State	District	Names of Project	Amount earmarked for EPA	Entry Point Activities planned	Estimated Cost	Expenditure incurred	Balance	Expected outcome	Actual outcome
1	Meghalaya	Jaintia Hills	JH-IWMP-IV	12.00	1.Drinking well cum W/Platform 2.Pipe line, 3.Storage water tank cum washing platform 4.Community Pond 5.Community Washing Platform	12.00	12.00	0.00	-	Portable Drinking Water

ii) Other activities of Preparatory Phase:

1	2	3	4	5	6	7	8	9	10	11	12	13
District	Name of projects	Initiation of village level institution	Capacity building	IEC activities	Baseline survey	Hydro-geological survey	Identifying technical support agencies	Resource agree-ments	Preparation of DPR	Evaluation of DPR	Any other (please specify)	Cost incurred (Rs. In lakhs)
Jaintia Hills	JH-IWMP-IV	1.no Watershed Committee at each benefiting village	3 nos	-	Done	NA	Done	Done	Done	Done	-	6.00

4.2 Watershed Works Phase:

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

1	2	3	4	5	6			7											
					Pre Project			Proposed Project											
								Augmentation/ repair of existing structure				Construction of new structures				Total target			
Sl. No	Name of States	Name of Districts	Name of Projects	Type of structures	No	Area irrigated (ha)	Storage capacity m^3	No.	Area to be treated (ha)	Storage capacity	Estimate cost	No.	Area to be treated (ha)	Storage capacity (m^3)	Estimated cost In Lakhs	No	Area to be treated (ha)	Storage capacity	Estimate cost
	Meghalaya	Jaintia Hills	JH-IWMP-IV	(i) Tank	-	-		-	-		-	-		-	-	-	-	-	-
				(ii)Pond	-	-	-					80	112	18240	28.352	80	112	-	28.352
				(iii)Lake	-	-	-							-	-	-	-	-	-
				(iv)Check Dam	-	-						48	96	9504	20.864	48	96	-	20.864
				(v) Percolation Tank	-	-		-	-		-			-		-	-	-	-
				(vi) Channel	-	-						3200 RM.	-	-	0.832	3200 RM.	-	-	0.832
				(vii) Protection Wall	-	-	-	-	-		-	48	96	2160	14.352	48	96		14.352
			Total																

8											9	10
Achievement due to project												
Augmentation/ repair of existing structures				Construction of new structures				Total achievement			Change in storage capacity (Col 8-6)	Change in irrigated area (ha) Col. (8-6)
No	Area irrigated (ha)	Storage capacity	Expenditure incurred	No	Area irrigated (ha)	Storage capacity	Expenditure incurred	Area irrigated (ha)	Storage capacity	Estimate incurred		

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

1	2	3	4	5	6		7								8									9
Sl. No	Names of States	Names of Districts	Names of Projects	Type of structures	Pre-project		Proposed target								Achievement due to project									Change in irrigated area (Col.8-6) (ha)
							Augmentation/repair of existing recharging structures			Construction of new recharg-ing structures			Total target		Augmentation /repair of existing recharging structures			Constructio-n of new recharging structures			Total achievement			
					No	Area irrigated (ha)	No.	Area to be irrigateted (ha)	Estimated cost.	No.	Area to be irrigated (ha)	Estimated cost.	Area to be irrigated (ha)	Estimated cost	No	Area irrigated (ha)	Expenditure incurred	No.	Area irrigated (ha)	Expenditure incurred	Area irrigated (ha)	Expenditure incurred		
				(i) Open wells																				
	Meghalaya	Jaintia Hills	JH-IWMP-IV	(ii) Bore wells		Nil					Nil													
				(iii) Any other (pl specify)																				
				Total for the project																				

4.2.3 Activities executed by User Groups in the Project Areas.

1	2	3						
Names of District	Names of Projects	Majors activities of the UGs - Targets Structure/ activity proposed				No. of UGs involved	Estimated cost In Lakh	Amount of WDF to be collected (Rs). In Lakh
		SL.No.	Type	No. #	Treatment (ha)			
Jaintia Hills	JH-IWMP-IV	1.	Check Dam	48	96		14.352	Rs. 0.7176
		2.	W/H Structure	48	96		10.9584	Rs. 0.54792
		3.	Imp. Of Degraded forest	5	135		5.805	Rs.0.29025

4.2.4 Activities executed by User Groups in the Project Areas:

4									
Major activities of the UGs- Achievements									
Structure/ activity				No.of UGs involved	Expenditure Incurred (Rs)	No of mandays			Amount of WDF Collected (Rs)
Sl.No.	Type	No.#	Treated Area (ha)			SC	ST	F	

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

1	2	3		
Name of the district	Name of Project	Major activities of the SHGs		
		Name of Activity	No.of SHGs involved	Average annual income from activity per SHG
Jaintia Hills	JH-IWMP-IV	Live stock	1	Rs 60,000.00
.		Production and Micro Enterprises	2	Rs 65,000.00

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

4	5				6	7	8			9	10
No. of SHGs given training	Total assistance received by the SHG (Amount in Rs.)				Total annual Income generated (Rs.)	Total annual Savings (Rs.)	No. of SHGs Graded as			Total Amount of loan sanctioned by the bank(s)	No. of SHGs federated
	Loan from revolving fund	Training	Material	Others (pl. specify)			I	II	III		
3	-	0.40	0.10	-	-	-	-	-	III	-	-

4.2.7 Other activities of watershed works phase:

1	2	3		4		5		6		7		8		9		10		11		12		13
District	Names of projects	Ridge area treatment		Drainage line treatment		Nursery raising		Land Development		Crop demonstrations		Pasture developm ent		Veterinary services		Fishery development		Non-conventional energy		Any other (please specify)		Total cost incurred (Rs. In Lakhs)
		(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	
Jaintia Hills	JH-IWMP-IV	120 Ha	12.12	304 Ha	47.0064	-	-	376 Ha	30.0846	12 unit (8 Ha)	0.60	-	-	-	-	48 Nos	15.744	-	-	-	-	105.555

4.2.8 Details of engineering structures in watershed works:

1	2	3	4			5			6	7						8						
District	Project	Name of structures	Type of treatment			Type of land			Executing agency	Target						Achievement						
			(i)Ridge area(R)	(ii) Drainage line (D)	(iii) Land dev.(L)	(i) Pri-vate	(ii) Community	(iii) Others (pl.specify)	(i) UG (ii) SHG (iii) Beneficiary	No.of units (No./ cu.m/ rmt)	Estimated cost (Rs.in lakh)				Expected month & Year of completion (mm/yyyy)	No.of units (No./ cu.m/ rmt)	Expenditure incurred (Rs.in lakh)				Status of completion	Actual month & Year of completion (mm/yyyy)
											M	W	O	Total			M	W	O	T		
Jaintia Hills	JH-IWMP-IV	Contour bunding	-	-	(L)	(i)	-	-	(i) & (iii)	352 Ha	-	25.80		25.80								
		Peripheral bunding	(R)	-	-	(i)	-	-	(i) & (iii)	7369.2 Rm		3.6846		3.6846								
		Imp.of existing paddy filed	-	-	(L)	(i)	-	-	(i) & (iii)	135 Ha		5.805		5.805								
		Check Dam (C.C.)		(ii)	-	(i)	-	-	(ii) &(iii)	48	8.6112	5.7408		14.352								
		Protection wall		(ii)	-	(i)	-	-	(ii) & (iii)	48	6.57384	4.38256		10.9564	3yrs							
		Dug out pond		(ii)	-	(i)	-	-	(i) & (iii)	32	-	5.12		5.12								
		W/H structure (Earthen with CC canal)		(ii)		(i)	-	-	(i) & (iii)	48	9.4464			15.744								
		Channel		-	-	(i)	-	-	(i) & (iii)	3200 Rmt	-	0.832		0.832								

4.2.9 Details of engineering structures in watershed works.

9																	
Outcomes																	
Reduction in run off (cu.m)	Area treated# (ha)	Water level (m)		Production (quintal)		Income (Rs.)		Mandays generated					No.beneficiaries				
		Pre-Project	Post Project	Pre-Project	Post Project	Pre-Project	Post Project	SC	ST	Others	Women	Total	SC	ST	Others	Women	Total

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

1	2	3	4			5			6	7				8			
District	**Project**	**Name of structure/ work**	**Type of treatment**			**Type of Land**			**Executing agency**	**Target**				**Achievement**			
			(i) Ridge area (R)	(ii) Drainage line (D)	(iii) Land Dev. (L)	(i) Private	(ii) Community	(iii) others (pl. specify)	(i) UG (ii) SHG (iii) Beneficiary	Area (ha)	No. of Plants	Estimated cost (Rs. in Lakh)	Expected month & year of complrtion (mm/yyyy)	Area # (ha)	No. of Plants	Expenditure incurred (Rs.in lakh)	Actual month & year of completion (mm/yyyy)
Jaintia Hills	JHI-IWMP-IV	Afforestation				**(i)**	**(ii)**			120	36000	12.12	3yrs				
		Regeneration															
		Agro-forestry															
		Fuel Wood															
		Fodder															
		Horticulture				**(i)**				300	90000	25.80	3yrs				
		Pasture dev.															
		Nursery raising															
		Others (pl. specify)															

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

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

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

4.2.12 Details of allied / other activities:

1	2	3	4			5	6		7	
District	**Project**	**Name of Activity @**	**Type of Land**			**Executing agency**	**Target**		**Achievement**	
			(i) private	**(ii) Community**	**(iii)Others (pl. specify)**	**(i) UG (ii) SHG (iii) Individual**	**Estimated cost (Rs.in lakh)**	**Expected month & year of completion (mm/yyyy)**	**Expenditure incurred (Rs.in lakh)**	**Actual month & year of completion (mm/yyyy)**
Jaintia Hills	JH –IWMP -IV	Crop demonsration	(i)	-	-	(i) & (ii)	0.60	3yrs		
		Kitchen gardening /Organic farming/compost pit	(i)	-	-	(i) & (iii)	6.60	3yrs		
		Ginger/Turmeric/Vegetable cultivation	(i)			(i) & (ii)	0.90	3yrs		
		Ppoultry/Piggery/Duckery	(i)	-	-	(i) & (iii)	25.80	3yrs		
		Carpentry/Sprayer/Black Smit/Hallow Block Making	(i)	-	-	(i) & (iii)	6.40	3yrs		
		Grocery Shop/mushroom cultivation/Pisciculture/Mud Block making	(i)	-	-	(i) & (ii)	10.80	3yrs		
		Vermi compost/Weaving	(i)	-	-	(ii)	3.00	3yrs		
		Tailoring	(i)	-	-	(ii) & (iii)	2.40	3yrs		
		Milk cow rearing	(i)	-	-	(ii)	1.20	3yrs		
		Goat rearing	(i)	-	-	(ii) & (iii)	0.30	3yrs		

from column no.2 no. of States: from column no.3 no. of District; from column no. 4. total no of projects; from column no. 5 activity wise totals; from column no.6 type wise totals; from column no. 7 agency wise totals, from column no. 8 total estimated cost; from column no. 9 total expenditure incurred. Structure – wise no. of completed works. from column no.10 items –wise totals, for the entire country may be indicated at the end of the table.

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

4.2.13 Details of allied / other activities:

8											
Outcomes											
Income (Rs)		**Mandays generated**					**No of beneficiaries**				
Pre-project	**Post-project**	**SC**	**ST**	**Others**	**Women**	**Total**	**SC**	**ST**	**Others**	**Women**	**Total**

4.3 Consolidation and withdrawal phase

Details of activities in the CPRs in the project areas:

1	2	3	4	5	6				7						
					Target				**Achievement**						
Name of the District	**Name of project**	**Name (s) of the villages**	**CPR particular**	**Activity pro-posed**	**Target area under the activity (ha)**	**Estimate expenditure (Rs)**	**Expected no. of beneficiaries**	**Estimate contribution to WDF (Rs)**	**Area treated under the activity (ha)**	**Expendit-ure incurred (Rs)**	**Actual no. of beneficiaries**	**No of Mandays**			**WDF collected (Rs)**
												SC	**ST**	**F**	
Jaintia Hills	JH-IWMP-IV	Shangpung	1.Community land. 2.Community forest land	1.Drinking well 2.Imp. of degraded forest	160 Ha	2.70 5.76	Community	13500 28800							
		Khliehrangnah	1.Community land 2.Community forest land	1.Drinking well 2.Imp. of degraded forest	53 Ha	0.90 1.90	Community	4500 9500							

CHAPTER V

PROJECT PHASING & BUDGETING

CHAPTER V - PROJECT PHASING & BUDGETING

ACTION PLAN OF JAINTIA HILLS I.W.M.P – IV UNDER LASKEIN C&RD BLOCK 2010-2011

Name of District – Jaintia Hills District **No of Village – 2 Nos** **Treatable Area = 2000 Ha**

Particulars			Preparatory Phase		Watershed Work Phase						Consolidation/withdrawal phase	
	Budget Outlay		First year		Second Year		Third Year		Fourth year		Fifth year	
	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
2402 – Soil & Water Conservation 800 – Other Expenditure 15 – Integrated Watershed management Programme (IWMP) 01 – Administrative Expenditure 02 – Wages	2%	6.00	-	-	0.5%	1.50	1%	3.00	0.5%	1.50		
13 – Office Expenses	2%	6.00	-	-	0.5%	1.50	1%	3.00	0.5%	1.50		
21 – Supplies & materials	3%	9.00	-	-	0.50%	1.50	2%	6.00	0.5%	1.50		
28 – Professional Services	1%	3.00	-	-	0.25%	0.75	0.5%	1.50	0.25%	0.75		
50 – Other charges	2%	6.00	-	-	0.25%	0.75	0.5%	1.50	1.25%	3.75		
TOTAL – 01	**10%**	**30.00**	**-**	**-**	**2%**	**6.00**	**5%**	**15.00**	**3%**	**9.00**		
02 – Monitoring & Evaluation 13 – Office Expenses	1%	3.00	-	-	0.3%	0.90	0.4%	1.20	0.3%	0.90		
16 – Publication	0.5%	1.50	-	-	0.1%	0.30	0.3%	0.90	0.1%	0.30		
28 – Professional Services	0.5%	1.50	-	-	0.1%	0.30	0.3%	0.90	0.1%	0.30		
TOTAL - 02	**2 %**	**6.00**	**-**	**-**	**0.5%**	**1.50**	**1%**	**3.00**	**0.5%**	**1.50**		
03 – Entry Point Activities												
27 – Minor works/ maintenance	4%	12.00	4%	12.00	-	-	-	-	-	-		
TOTAL – 03	**4%**	12.00	4%	12.00	-	-	-	-	-	-		
04 – Institution & Capacity Building												
20 – Other Administrative Expenses	5%	15.00	1%	3.00	2%	6.00	1%	3.00	1%	3.00		
TOTAL – 04	**5%**	**15.00**	**1%**	**3.00**	**2%**	**6.00**	**1%**	**3.00**	**1%**	**3.00**		
05 – Preparation of Detailed Project Report												
02 – Wages	0.2%	0.60	0.2%	0.60	-	-	-	-	-	-		
13 – Office Expenses	0.2%	0.60	0.2%	0.60	-	-	-	-	-	-		
16 – Publication	0.2%	0.60	0.2%	0.60	-	-	-	-	-	-		
21 – Supplies & materials	0.4%	1.20	0.4%	1.20	-	-	-	-	-	-		
TOTAL – 05	**1%**	3.00	1%	3.00	-	-	-	-	-	-		
TOTAL of 01+02+03+04+05 -	**22%**	**66.00**	**6%**	**18.00**	**4.5%**	**13.50**	**7%**	**21.00**	**4.5%**	**13.50**		

Particulars	Budget Outlay		First year		Second Year		Third Year		Fourth year		Fifth year	
	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
<u>06 – Arable Land Treatment</u> 27 – Minor works/ Maintenance (a) Agro –Hort with Citrus fruits @ Rs. 8600/-per Ha (i) Preliminary = Rs. Rs. 1300/- per Ha	300Ha	25.80	-	-	300ha	3.90	-	13.80	-	-	-	-
(ii) 1st year = Rs. 4600/- per Ha		-	-	-	-	-	-	-	-	-	-	-
(iii) 2nd year = Rs. 2700/- per Ha		-	-	-	-	-	-	-	-	8.1	-	-
(b) Contour Bunding/ Half Moon Terrace etc @ Rs. 7500/- per Ha	352ha	26.40	-	-	51ha	3.825	301ha	22.575	-	-	-	-
(c) Peripheral Bunding @ Rs. 50/- per R.M	7369.20Rm (24ha)	3.6846	-	-	528Rm (1.2ha)	0.264	6589.6Rm (22.2Ha)	3.2945	251.6 Rm (0.60Ha)	0.1258	-	-
(d) Improvement of existing paddy field @ Rs. 4300/- per Ha	135ha	5.805	-	-	-	-	135ha	5.805	-	-	-	-
(e) Crop demonstration @ Rs. 5000/- per unit	12unit (8ha)	0.60	-	-	4unit (2.5ha)	0.20	8units (5.5ha)	0.40	--	-	-	-
TOTAL – 06 ARABLE LAND TREATMENT	**819ha**	**62.2896**	**-**	**-**	**354.7ha**	**8.189**	**463.7ha**	**45.8748**	**0.6ha**	**8.2258**	-	-

Particulars	Budget Outlay		First year		Second Year		Third Year		Fourth year		Fifth year	
	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
<u>06 – Non – Arable Land :</u> (a) Afforestation: Pine/ Non –Pine @ Rs. 10,100/-per Ha (i) Preliminary = Rs. Rs. 1700/- per Ha (ii) 1st year = Rs. 5500/- per Ha (iii) 2nd year = Rs. 2900/- per Ha	120ha	12.12	-	-	120ha	2.04	-	-	-	-	-	-
			-	-	-	-	-	6.60	-	-	-	-
			-	-	-	-	-	-	-	3.48	-	-
(b) Strip Plantation, two rows along the boundary with fast growing species @ Rs. 4266/- per Ha (i) Preliminary = Rs. 736/- per Ha (ii) 1st year = Rs. 2340/- per Ha (iii) 2nd year = Rs. 1190/- per Ha	200ha	8.532	-	-	200ha	1.472	-	-	-	-	-	-
			-	-	-	-	-	4.68	-	-	-	
			-	-	-	-	-	-	-	2.38	-	-
(c) Improvement of degraded forest @ Rs. 3600/- per Ha (i) Preliminary = Rs. 700/- per Ha (ii) 1st year = Rs. 1900/- per Ha (iii) 2nd year = Rs. 1000/- per Ha	557ha	20.052	-	-	577ha	3.899	-	-	-	-	-	-
			-	-	-	-	-	10.583	-	-	-	-
			-	-	-	-	-	-	-	5.57	-	-
TOTAL – NON – ARABLE LAND TREATMENT	**877ha**	40.704	-	-	877ha	7.411	-	21.863	-	11.43	-	-

Particulars	Budget Outlay		First year		Second Year		Third Year		Fourth year		Fifth year	
	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
06 – Drainage Line Treatment 27 – Minor works/ maintenance (a) Check Dam @ Rs. 29900/-per each	48Nos (96ha)	14.352	-	-	8Nos (16ha)	2.392	38Nos (76ha)	11.362	2nos (4ha)	0.598	-	-
(b) Protection wall @ Rs. 22830/- per each	48Nos (96ha)	10.958 4	-	-	-	-	44Nos (88ha)	10.0452	4nos (8ha)	0.9132	-	-
(c) Small dug out Pond @ Rs. 16000/- per each	32Nos (16ha)	5.12	-	-	4Nos (2ha)	0.64	25Nos (12.5ha)	4.00	3nos (1.5ha)	0.48	-	-
(d) Water Harvesting Structures @ Rs. 32800/- per each	48Nos (96ha)	15.744	-	-	11Nos (22ha)	3.608	35Nos (70ha)	11.48	2nos (4ha)	0.656	-	-
(e) Run – off Disposal Channel @ Rs. 26/- Per R.M	3200Rm	0.832	-	-	1000Rm	0.26	1442.3R m	0.375	757.7R m	0.197	-	-
TOTAL OF DRAINAGE LINE TREATMENT	304ha	47.006 4	-	-	40ha	6.90	246.5ha	37.2622	17.5ha	2.8442	-	-
TOTAL OF – 06 – DEVELOPMENT WORKS	2000ha	150.00	-	-	1271.7ha	22.50	710.2ha	105.00	18.1ha	22.50	-	-

Particulars	Budget Outlay		First year		Second Year		Third Year		Fourth year		Fifth year	
	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
07 – Livelihood Activities 27 – Minor works/ maintenance **(a) House hold production system:** (i) Kitchen gardening /Organic farming/ compost pit @ Rs 2 500/- per unit	264units	6.60	-	-	72units	1.80	130units	3.25	62units	1.55	-	-
(b) Service Sector Activities: (i) Carpentry/ Sprayer/ Black Smith & Agricultural Implements/Hallow Block making @ Rs. 5000/- per unit	128units	6.40	-	-	24unit	1.20	34units	1.70	70units	3.50	-	-
(ii) Mud brick making, , basket making, Pisciculture @ Rs. 10,000/- per unit	116units	11.60	-	-	-	-	20units	2.00	96unit	9.60	-	-
(iii)Tailoring @ Rs. 8,000/- per unit	30 units	2.40	-	-	-	-	10units	0.80	20units	1.60		
(iv) Vermi compost, weaving @ Rs. 12,500/- per unit	24 units	3.00	-	-	-	-	10units	1.25	14units	1.75	-	-
TOTAL OF – 07	**562units**	**30.00**			**96units**	**3.00**	**204units**	**9.00**	**262units**	**18.00**		
08 – Production System and Micro Enterprises 27 – Minor works/ Maintenance (i) Poultry/ Duckery/ Piggery @ Rs. 30,000/- per unit	86units	25.80	-	-	9units	2.70	34units	10.20	43units	12.90	-	-
(ii)Grocery Shop/ Mushroom cultivation, Pisciculture/Mud block making @ Rs. 30,000/- per unit	36units	10.80	-	-	-	-	15units	4.50	21units	6.30	-	-
(iii) Milk cow rearing @ Rs. 40,000/- Per unit	3units	1.20	-	-	-	-	-	-	3units	1.20	-	-
(iv) Goat rearing @ Rs. 30,000/- per unit	1unit	0.30	-	-	-	-	-	-	1unit	0.30	-	-
(v)Ginger/Turmeric/Vegetable cultivation @ R 15000/-per unit	6 units	0.90	-	-	2units	0.30	2units	0.30	2units	0.30		
TOTAL OF – 08	**132unit**	**39.0**	**-**	**-**	**11units**	**3.00**	**51units**	**15.00**	**70units**	**21.00**	**-**	**-**

Particulars	Budget Outlay		First year		Second Year		Third Year		Fourth year		Fifth year	
	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
09 – Consolidation and withdrawal works												
27 – Minor works/ maintenance	4%	12.0	-	-	-	-	-	-	-	-	4%	12.00
13 – Office expenses	0.5%	1.5	-	-	-	-	-	-	-	-	0.5%	1.50
16 – Publication	0.25%	0.75	-	-	-	-	-	-	-	-	0.25%	0.75
26 – Advertisement & Publicity	0.25%	0.75	-	-	-	-	-	-	-	-	0.25%	0.75
TOTAL - 09	5%	15.00	-	-	-	-	-	-	-	-	5%	15.00
TOTAL = Basic Activities: 01+02+03+04+05	22%	66	6%	18.0	4.5%	13.5	7%	21.00	4.5%	13.50	-	-
TOTAL= Development works: 06	50% 2000ha	150.00	-	-	1271.7ha	7.5% 22.50	710.2ha	35% 105.00	16.1ha	7.5% 22.50	-	-
TOTAL = Livelihood activities and Production System and Micro Enterprises: 07+08	23% 694units	69.0	-	-	107units	2% 6.00	255units	8% 24.00	332units	13% 39.00	-	-
GRAND TOTAL	**2000ha**	**300.00**	**-**	**18.0**	**1271.7ha**	**42.0**	**710.5ha**	**150.0**	**17.8ha**	**75.00**	**-**	**15.00**

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Jaintia Hills (T) Division
Jowai

Project Manager
Meghalaya Rural Development Society
(LIPH- IFAD)
DMU- Jaintia Hills District
Jowai, Meghalaya

ABSTRACT – J H – I.W.M.P – IV – 2010 – 2011

YEARWISE		CENTRAL SHARE (Rs. In Lakhs)		STATE SHARE (Rs. In Lakhs)		TOTAL (Rs. In Lakh)
1st year		16.20	-	1.80	-	18.00
2nd year		37.80	-	4.20	-	42.00
3rd year		135.00	-	15.00	-	150.00
4th year		67.50	-	7.50	-	75.00
5th year		13.50	-	1.50	-	15.00
Total	**=**	**270.00**	**-**	**30.00**	**-**	**300.00**

Deputy Commissioner,
Jaintia Hills District,
Jowai

Divisional Soil & Water Conservation Officer
Jaintia Hills (T) Division
Jowai

VILLAGE TREATMENT PLAN OF WAH LAMA MICRO WATERSHED JAINTIA HILLS – IWMP –IV (2010 2011)

Name of Village:- Shangpung **No. of Village = 1No** **Treatable Area = 1500Ha** **Micro Watershed :- Wah Lama**

Particulars	Budget Outlay		Preparatory Phase		Watershed Work Phase						Consolidation/withdrawal phase	
			First year		Second Year		Third Year		Fourth year		Fifth year	
	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
2402 – Soil & Water Conservation 800 – Other Expenditure 15 – Integrated Watershed management Programme (IWMP) 01 – Administrative Expenditure 02 – Wages	2%	4.50	-	-	0.5%	1.125	1%	2.25	0.5%	1.125		
13 – Office Expenses	2%	4.50	-	-	0.5%	1.125	1%	2.25	0.5%	1.125		
21 – Supplies & materials	3%	6.75	-	-	0.5%	1.125	2%	4.50	1%	2.25		
28 – Professional Services	1%	2.25	-	-	0.25%	0.5625	0.5%	1.125	0.25%	0.5625		
50 – Other charges	2%	4.50	-	-	0.25%	0.5625	0.5%	1.125	1.25%	2.8125		
TOTAL – 01	**10%**	**22.50**	**-**	**-**	**2%**	**4.50**	**5%**	**11.25**	**3%**	**6.75**		
02 – Monitoring & Evaluation												
13 – Office Expenses	1%	2.25	-	-	0.3%	0.675	0.4%	0.90	0.3%	0.675		
16 – Publication	0.5%	1.125	-	-	0.1%	0.225	0.3%	0.675	0.1%	0.225		
28 – Professional Services	0.5%	1.125	-	-	0.1%	0.225	0.3%	0.675	0.1%	0.225		
TOTAL - 02	**2 %**	**4.50**	**-**	**-**	**0.5%**	**1.125**	**1 %**	**2.25**	**0.5%**	**1.125**		
03 – Entry Point Activities												
27 – Minor works/ maintenance	4%	9.00	4%	9.00	-	-	-	-	-	-		
TOTAL – 03	**4%**	**9.00**	**4%**	**9.00**	-	-	-	-	-	-		
04 – Institution & Capacity Building												
20 – Other Administrative Expenses	5%	11.25	1%	2.25	2.0%	4.5	1%	2.25	1%	2.25		
TOTAL – 04	**5%**	**11.25**	**1%**	**2.25**	**2.0%**	**4.5**	**1%**	**2.25**	**1%**	**2.25**		
05 – Preparation of Detailed Project Report												
02 – Wages	0.2%	0.45	0.2%	0.45	-	-	-	-	-	-		
13 – Office Expenses	0.2%	0.45	0.2%	0.45	-	-	-	-	-	-		
16 – Publication	0.2%	0.45	0.2%	0.45	-	-	-	-	-	-		
21 – Supplies & materials	0.4%	0.90	0.4%	0.90	-	-	-	-	-	-		
TOTAL – 05	**1%**	2.25	1%	2.25	-	-	-	-	-	-		
TOTAL of 01+02+03+04+05 -	**22%**	**49.50**	**6 %**	**13.50**	**4.5%**	**10.125**	**7%**	**15.75**	**4.5%**	**10.125**		

Particulars	Budget Outlay		First year		Second Year		Third Year		Fourth year		Fifth year	
	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
<u>06 – Arable Land Treatment</u> 27 – Minor works/ Maintenance (a) Agro –Hort with Citrus fruits @ Rs. 8600/-per Ha (i) Preliminary = Rs. Rs. 1300/- per Ha	225Ha	19.35	-	-	225ha	2.925	-	-	-	-	-	-
(ii) 1st year = Rs. 4600/- per Ha		-	-	-	-	-	-	10.35	-	-	-	-
(iii) 2nd year = Rs. 2700/- per Ha		-	-	-	-	-	-	-	-	6.075	-	-
(b) Contour Bunding/ Half Moon Terrace etc @ Rs. 7500/- per Ha	258ha	19.35	-	-	40ha	3.00	218ha	16.35	-	-	-	-
(c) Peripheral Bunding @ Rs. 50/- per R.M	5522.4Rm (18ha)	2.7612	-	-	396Rm (1ha)	0.198	5126.4Rm (17Ha)	2.5632	-	-	-	-
(d) Improvement of existing paddy field @ Rs. 4300/- per Ha	135ha	5.805	-	-	-	-	135ha	5.805	-	-	-	-
(e) Crop demonstration @ Rs. 5000/- per unit	9unit (6ha)	0.45	-	-	4unit (2.5ha)	0.20	5 units (3.5ha)	0.25	-	-	-	-
TOTAL – 06 ARABLE LAND TREATMENT	**642ha**	**47.7162**	**-**	**-**	**268.5ha**	**6.323**	**373.5ha**	**35.3182**	**-**	**6.075**	-	-

Particulars	Budget Outlay		First year		Second Year		Third Year		Fourth year		Fifth year	
	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
<u>06 – Non - Arable Land :</u>												
(a) Afforestation: Pine/ Non -Pine												
@ Rs. 10,100/-per Ha												
(i) Preliminary = Rs. Rs. 1700/- per Ha	90ha	9.09	-	-	90ha	1.53	-	-	-	-	-	-
(ii) 1st year = Rs. 5500/- per Ha			-	-	-	-	-	4.95	-	-	-	-
(iii) 2nd year = Rs. 2900/- per Ha			-	-	-	-	-	-	-	2.61	-	-
(b) Strip Plantation, two rows along the boundary												
with fast growing species @ Rs. 4266/- per Ha												
(i) Preliminary = Rs. 736/- per Ha	150ha	6.399	-	-	150ha	1.104	-	-	-	-	-	-
(ii) 1st year = Rs. 2340/- per Ha			-	-	-	-	-	3.51	-	-	-	
(iii) 2nd year = Rs. 1190/- per Ha			-	-	-	-	-	-	-	1.785	-	-
(c) Improvement of degraded forest												
@ Rs. 3600/- per Ha												
(i) Preliminary = Rs. 700/- per Ha	390ha	14.04	-	-	390ha	2.73	-	-	-	-	-	-
(ii) 1st year = Rs. 1900/- per Ha			-	-	-	-	-	7.41	-	-	-	-
(iii) 2nd year = Rs. 1000/- per Ha			-	-	-	-	-	-	-	3.90	-	-
TOTAL – NON - ARABLE LAND TREATMENT	**630ha**	**29.529**	**-**	**-**	**630ha**	**5.364**	**-**	**15.87**	**-**	**8.295**	-	-

Particulars	Budget Outlay		First year		Second Year		Third Year		Fourth year		Fifth year	
	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
<u>06 – Drainage Line Treatment</u> 27 – Minor works/ maintenance (a) Check Dam @ Rs. 29900/-per each	36Nos (72ha)	10.764	-	-	6Nos (12ha)	1.794	28Nos (56ha)	8.372	2nos (4ha)	0.598	-	-
(b) Protection wall @ Rs. 22830/- per each	36Nos (72ha)	8.2188	-	-	-	-	32Nos (64ha)	7.3056	4Nos (8ha)	0.9132	-	-
(c) Small dug out Pond @ Rs. 16000/- per each	24Nos (12ha)	3.84	-	-	4 nos (2ha)	0.64	19Nos (9.5ha)	3.04	1Nos (0.5ha)	0.16	-	-
(d) Water Harvesting Structures @ Rs. 32800/- per each	36Nos (72ha)	11.808	-	-	8Nos (16ha)	2.624	26Nos (52ha)	8.528	2 nos (4ha)	0.656	-	-
(e) Run – off Disposal Channel @ Rs. 26/- Per R.M	2400Rm	0.624	-	-	500Rm	0.13	1216.15Rm	0.3162	683.85Rm	0.1778	-	-
TOTAL OF DRAINAGE LINE TREATMENT	228ha	35.2548	-	-	30ha	5.188	181.5ha	27.5618	16.5ha	2.505	-	-
TOTAL OF – 06 – DEVELOPMENT WORKS	**1500ha**	**112.50**	**-**	**-**	**928.5ha**	**16.875**	**555ha**	**78.75**	**16.5ha**	**16.875**	**-**	-

Particulars	Budget Outlay		First year		Second Year		Third Year		Fourth year		Fifth year	
	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
<u>07 – Livelihood Activities</u> 27 – Minor works/ maintenance (a) House hold production system: (i) Kitchen gardening/ Organic farming/ compost pit @ 2500/- per unit	198unit	4.95	-	-	50units	1.25	100units	2.50	48units	1.20	-	-
(b) Service Sector Activities: (i) Carpentry/ Sprayer/ Black Smith/ Agricultural Implements/Hallow block making @ Rs. 5000/- per unit	96units	4.80	-	-	20units	1.00	29units	1.45	47units	2.35	-	-
(ii) Mud brick making, basket making, Pisciculture @ Rs. 10,000/- per unit	85units	8.50	-	-	-	-	10units	1.00	75units	7.50	-	-
(iii)Tailoring @ Rs 8000/- unit	25units	2.00					10units	0.80	15units	1.20		
(iv) Vermi compost, weaving @ Rs.12,5000/- per unit	18units	2.25	-	-	-	-	8 units	1.00	10units	1.20	-	-
Total -07	**422units**	**22.50**			**70units**	**2.25**	**157units**	**6.75**	**195units**	**13.50**		
08 – Production System and Micro Enterprises 27 – Minor works/ Maintenance (i) Poultry/ Duckery/ Piggery @ Rs. 30,000/- per unit	66units	19.80	-	-	7units	2.10	25units	7.50	34units	10.20	-	-
(ii) grocery Shop/ Mushroom cultivation, Pisciculture,Mud block making @ Rs. 30,000/- per unit	26units	7.80	-	-	-	-	12units	3.60	14units	4.20	-	-
(iii) Milk cow rearing @ Rs. 40,000/- Per unit	3units	1.20	-	-	-	-	-	-	3units	1.20	-	-
(iv)Ginger/Turmeric/Vegetable cultivation @ Rs. 15,000/- per unit	3units	0.45	-	-	1unit	0.15	1unit	0.15	1unit	0.15	-	-
TOTAL – 08	**98units**	**29.25**	**-**	**-**	**8unit**	**2.25**	**38units**	**11.25**	**52units**	**15.75**	**-**	-

Particulars	Budget Outlay		First year		Second Year		Third Year		Fourth year		Fifth year	
	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
07 – Consolidation and withdrawal works 27 – Minor works/ maintenance 13 – Office expenses	 4% 0.5%	 9.00 1.125	 - -	 - -	 - -	 - -	 - -	 - -	 - -	 - -	 4% 0.5%	 9.00 1.125
16 – Publication	0.25%	0.5625	-	-	-	-	-	-	-	-	0.25%	0.5625
26 – Advertisement & Publicity	0.25%	0.5625	-	-	-	-	-	-	-	-	0.25%	0.5625
TOTAL - 09	5%	11.25	-	-	-	-	-	-	-	-	5%	11.25
TOTAL = Basic Activities: 01+02+03+04+05	22%	49.50	6%	13.50	4.5%	10.125	7%	15.75	4.5%	10.125	-	-
TOTAl = Development works: 06	50% 1500ha	112.50	-	-	7.5% 928.5ha	16.875	35% 555ha	78.75	7.5% 16.5ha	16.875	-	-
TOTAL = Livelihood activities and Production System and Micro Enterprises: 07+08	520 units	51.75	-	-	2% 78units	4.50	8% 195units	18.00	13% 247units	29.25	-	-
GRAND TOTAL	**1500ha**	**225.00**	**-**	**13.50**	**928.5ha**	**31.50**	**555ha**	**112.50**	**16.5ha**	**56.25**	**-**	**11.25**

Dr. D.I. Kjam
B.V.Sc. & A.H. (A.A.U.)
PGNDAE (Obs & Gynae) I.V.R.I
Regn. No :- MVC-043

Assistant Soil & Water Conservation Officer
Cash Crop Division,
Jowai.

Divisional Officer
Soil & Water Conservation,
Cash Crop Division,
Jowai.

Soil & Water Conservation Division
Jaintia Hills (T) Division
Jowai

Project Manager
Meghalaya Rural Development Society
(LIPH- IFAD)
DMU- Jaintia Hills District
Jowai, Meghalaya

ABSTRACT – J H – I.W.M.P – IV– 2010 – 2011

WAH LAMA MICRO WATERSHED

YEARWISE		CENTRAL SHARE (Rs. In Lakhs)		STATE SHARE (Rs. In Lakhs)		TOTAL (Rs. In Lakh)
1st year		12.150	-	1.350	-	13.50
2nd year		28.350	-	3.150	-	31.50
3rd year		101.250	-	11.250	-	112.50
4th year		50.625	-	5.625	-	56.25
5th year		10.125	-	1.125	-	11.25
Total	**=**	**202.500**	**-**	**22.500**	**-**	**225.00**

Deputy Commissioner,
Jaintia Hills District,
Jowai

Divisional Soil & Water Conservation Officer
Jaintia Hills (T) Division
Jowai

VILLAGE TREATMENT PLAN OF RAMUT MICRO WATERSHED JAINTIA HILLS-IWMP-IV (2010-2011)

Name of Village=khliehrangnah | No.of Village 1 No | Treatable Area = 500 Ha

Particulars			Preparatory phase		Watershed works phase						Consolidation/withdrawal phase	
	Budget Outlay		First year		Second Year		Third Year		Fourth year		Fifth year	
	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
2402 – Soil & Water Conservation 800 – Other Expenditure 15 – Integrated Watershed management Programme (IWMP) 01 – Administrative Expenditure 02 – Wages	2%	1.50	-	-	0.5%	0.375	1%	0.75	0.5%	0.375	-	-
13 – Office Expenses	2%	1.50	-	-	0.5%	0.375	1%	0.75	0.5%	0.375	-	-
21 – Supplies & materials	3%	2.25	-	-	05%	0.375	2%	1.50	0.5%	0.375	-	-
28 – Professional Services	1%	0.75	-	-	0.25%	0.1875	0.5%	0.375	0.25%	0.1875	-	-
50 – Other charges	2%	1.50	-	-	0.25%	0.1875	0.5%	0.375	1.25%	0.9375	-	-
TOTAL – 01	**10%**	**7.50**	**-**	**-**	**2%**	**1.50**	**5%**	**3.75**	**3%**	**2.25**	**-**	**-**
02 – Monitoring & Evaluation												
13 – Office Expenses	1%	0.75	-	-	0.3%	0.225	0.4%	0.30	0.3%	0.225	-	-
16 – Publication	0.5%	0.375	-	-	0.1%	0.075	0.3%	0.225	0.1%	0.075	-	-
28 – Professional Services	0.5%	0.375	-	-	0.1%	0.075	0.3%	0.225	0.1%	0.075	-	-
TOTAL - 02	**2 %**	**1.50**	**-**	**-**	**0.5%**	**0.375**	**1%**	**0.75**	**0.5%**	**0.375**	**-**	**-**
03 – Entry Point Activities												
27 – Minor works/ maintenance	4%	3.00	4%	3.00	-	-	-	-	-	-	-	-
TOTAL – 03	**4%**	**3.00**	**4%**	**3.00**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	-
04 – Institution & Capacity Building												
20 – Other Administrative Expenses	5%	3.75	1%	0.75	2%	1.50	1%	0.75	1%	0.75	-	-
TOTAL – 04	**5%**	**3.75**	**1%**	**0.75**	**2%**	**1.50**	**1%**	**0.75**	**1%**	**0.75**	**-**	-
05 – Preparation of Detailed Project Report												
02 – Wages	0.2%	0.15	0.2%	0.15	-	-	-	-	-	-	-	-
13 – Office Expenses	0.2%	0.15	0.2%	0.15	-	-	-	-	-	-	-	-
16 – Publication	0.2%	0.15	0.2%	0.15	-	-	-	-	-	-	-	-
21 – Supplies & materials	0.4%	0.30	0.4%	0.30	-	-	-	-	-	-	-	-
TOTAL – 05	**1%**	**0.75**	**1%**	**0.75**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	-
TOTAL of 01+02+03+04+05 -	**22%**	**16.50**	**6%**	**4.50**	**4.5%**	**3.375**	**7%**	**5.25**	**4.5%**	**3.375**	**-**	-

Particulars	Budget Outlay		First year		Second Year		Third Year		Fourth year		Fifth year	
	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
<u>06 – Arable Land Treatment</u> 27 – Minor works/ Maintenance (a) Agro –Hort with Citrus fruits @ Rs. 8600/-per Ha (i) Preliminary = Rs. Rs. 1300/- per Ha	75Ha	6.45	-	-	75Ha	0.975	-	-	-	-	-	-
(ii) 1^{st} year = Rs. 4600/- per Ha			-	-	-	-	-	3.45	-	-	-	-
(iii) 2^{nd} year = Rs. 2700/- per Ha			-	-	-	-	-	-	-	2.025	-	-
(b) Contour Bunding/ Half Moon Terrace etc @ Rs. 7500/- per Ha	94ha	7.05	-	-	11ha	0.825	83Ha	6.225	-	-	-	-
(c) Peripheral Bunding @ Rs. 50/- per R.M	1846.8Rm (5Ha)	0.9234	-	-	132Rm (0.2Ha)	0.066	1463.2Rm (4.5Ha)	0.7316	251.6Rm (0.3Ha)	0.1258	-	-
(d) Crop demonstration @ Rs. 5000/- per unit	3Units (3Ha)	0.15	-	-	-	-	3units (3ha)	0.15	-	-	-	-
TOTAL – 06 ARABLE LAND TREATMENT	**177Ha**	14.5734	-	-	86.2Ha	1.866	90.5Ha	10.5566	0.3Ha	2.1508	-	-

Particulars	Budget Outlay		First year		Second Year		Third Year		Fourth year		Fifth year	
	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
<u>06 – Non - Arable Land :</u>												
(a) Afforestation: Pine/ Non -Pine												
@ Rs. 10,100/-per Ha												
(i) Preliminary = Rs. Rs. 1700/- per Ha	30Ha	3.03	-	-	30Ha	0.51	-	-	-	-	-	-
(ii) 1st year = Rs. 5500/- per Ha			-	-	-	-	-	1.65	-	-	-	-
(iii) 2nd year = Rs. 2900/- per Ha			-	-	-	-	-	-	-	0.87	-	-
(b) Strip Plantation, two rows along the boundary												
with fast growing species @ Rs. 4266/- per Ha												
(i) Preliminary = Rs. 736/- per Ha	50Ha	2.133	-	-	50Ha	0.368	-	-	-	-	-	-
(ii) 1st year = Rs. 2340/- per Ha			-	-	-	-	-	1.17	-	-	-	-
(iii) 2nd year = Rs. 1190/- per Ha			-	-	-	-	-	-	-	0.595	-	-
(c) Improvement of degraded forest	167Ha	6.012										
@ Rs. 3600/- per Ha												
(i) Preliminary = Rs. 700/- per Ha			-	-	167Ha	1.169	-	-	-	-	-	-
(ii) 1st year = Rs. 1900/- per Ha			-	-	-	-	-	3.173	-	-	-	-
(iii) 2nd year = Rs. 1000/- per Ha			-	-	-	-	-	-	-	1.67	-	-
TOTAL – NON - ARABLE LAND TREATMENT	**247Ha**	11.175	-	-	247Ha	2.047	-	5.993	-	3.135	-	-

Particulars	Budget Outlay		First year		Second Year		Third Year		Fourth year		Fifth year	
	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
06 – Drainage Line Treatment 27 – Minor works/ maintenance (a) Check Dam @ Rs. 29900/-per each	12Nos (24Ha)	3.588	-	-	2Nos (4Ha)	0.598	10Nos (20Ha)	2.99	-	-	-	-
(b) Protection wall @ Rs. 22830/- per each	12Nos (24Ha)	2.7396	-	-	-	-	12Nos (24Ha)	2.7396	-	-	-	-
(c) Small dug out Pond @ Rs. 16000/- per each	8Nos (4Ha)	1.28	-	-	-	-	6Nos (3Ha)	0.96	2nos (1ha)	0.32	-	-
(d) Water Harvesting Structures @ Rs. 32800/- per each	12Nos (24Ha)	3.936	-	-	3Nos (6Ha)	0.984	9Nos (18Ha)	2.952	-	-	-	-
(e) Run – off Disposal Channel @ Rs. 26/- Per R.M	800Rm	0.208	-	-	500Rm	0.13	226.15Rm	0.0588	73.85Rm	0.0192	-	-
TOTAL OF DRAINAGE LINE TREATMENT	76Ha	11.7516	-	-	10Ha	1.712	65Ha	9.7004	1Ha	0.3392	-	-
TOTAL OF – 06 – DEVELOPMENT WORKS	500Ha	37.50	-	-	343.2Ha	5.625	155.5Ha	26.25	1.3Ha	5.625	-	-

Particulars	Budget Outlay		First year		Second Year		Third Year		Fourth year		Fifth year	
	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
07 – Livelihood Activities 27 – Minor works/ maintenance (a) House hold production system: (i) Kitchen gardening/ Organic farming/ compost pit @ 2500/- per unit	66Units	1.65	-	-	22units	0.55	30Units	0.75	14Units	0.35	-	-
(b) Service Sector Activities: (i) Carpentry/ Sprayer/ Black Smith/ Agricultural Implements /Hallow block making @ Rs. 5000/- per unit	32Units	1.60	-	-	4Units	0.20	5Units	0.25	23Units	1.15	-	-
(ii) Hallow block making, basket making, Pisciculture etc @ Rs. 10,000/- per unit	31Units	3.10	-	-	-	-	10Units	1.00	21Units	2.10	-	-
(iii)Tailoring @ Rs. 8,000/- per unit	5Units	0.40	-	-	-	-	-	-	5units	0.40	-	-
(iv) Vermi compost, weaving @ Rs. 12,500/- per unit	6Units	0.75	-	-	-	-	2Unit	0.25	4units	0.50	-	-
TOTAL OF -07	**140Units**	**7.75**	**-**	**-**	**26units**	**0.75**	**47Unit**	**2.25**	**67units**	**4.50**	**-**	**-**
08 – Production System and Micro Enterprises 27 – Minor works/ Maintenance (i) Poultry/ Duckery/ Piggery @ Rs. 30,000/- per unit	20Units	6.00	-	-	2Units	0.60	9Units	2.70	9Units	2.70	-	-
(ii) grocery Shop/ Mushroom cultivation, Pisciculture/Mud block making @ Rs. 30,000/- per unit	10units	3.00	-	-	-	-	3Units	0.90	7units	2.10	-	-
(iii) Goat rearing @ Rs. 30,000/- per unit	1Units	0.30	-	-	-	-	-	-	1units	0.30	-	-
(iv)Ginger/Turmeric/Vegetable cultivation @ Rs. 15,000/- per unit	3Units	0.45	-	-	1unit	0.15	1Units	0.15	1units	0.15	-	-
TOTAL OF –08	**34Units**	**9.75**	**-**	**-**	**3Units**	**0.75**	**13Units**	**3.75**	**18Units**	**5.25**	**-**	**-**

Particulars	Budget Outlay		First year		Second Year		Third Year		Fourth year		Fifth year	
	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
07 – Consolidation and withdrawal works 27 – Minor works/ maintenance 13 – Office expenses	4% 0.5%	3.00 0.375	- -	- -	- -	- -	- -	- -	- -	- -	4% 0.5%	3.00 0.375
16 – Publication	0.25%	0.1875	-	-	-	-	-	-	-	-	0.25%	0.1875
26 – Advertisement & Publicity	0.25%	0.1875	-	-	-	-	-	-	-	-	0.25%	0.1875
TOTAL - 09	5%	3.75	-	-	-	-	-	-	-	-	5%	3.75
TOTAL = Basic Activities: 01+02+03+04+05	22%	16.50	6%	4.50	4.5%	3.375	7%	5.25	4.5%	3.375	-	-
TOTAl = Development works: 06 50%	50% 500Ha	37.50	-	-	7.5% 343.2Ha	5.625	35% 155.5Ha	26.25	7.5% 1.3Ha	5.625	-	-
TOTAL = Livelihood activities and Production System and Micro Enterprises: 07+08	23% 174Units	17.25	-	-	2% 29Units	1.50	8% 60Units	6.00	13% 85Units	9.75	-	-
GRAND TOTAL	500Ha	75.00	-	4.50	343.2Ha	10.50	155.5Ha	37.50	1.3ha	18.75	-	3.75

Dr.D.I. Kjam
B.V.Sc. & A.H. (A.A.U.)
PGNDAE (Obs & Gynae) I.V.R.I
Regn. No :- MVC-043

Assistant Soil & Water Conservation Officer
Cash Crop Division,
Jowai.

Divisional Officer
Soil & Water Conservation,
Cash Crop Division,
Jowai.

Jaintia Hills (T) Division
Jowai

Project Manager
Meghalaya Rural Development Society
(LIPH- IFAD)
DMU- Jaintia Hills District
Jowai, Meghalaya

ABSTRACT – J H – I.W.M.P – IV – 2010 – 2011

RAMUT MICRO WATERSHED

YEARWISE		CENTRAL SHARE (Rs. In Lakhs)		STATE SHARE (Rs. In Lakhs)		TOTAL (Rs. In Lakh)
1st year		4.050	-	0.450	-	4.50
2nd year		9.450	-	1.050	-	10.50
3rd year		33.750	-	3.750	-	37.50
4th year		16.875	-	1.875	-	18.75
5th year		3.375	-	0.375	-	3.75
Total	**=**	**67.500**	**-**	**7.500**	**-**	**75.00**

Deputy Commissioner,
Jaintia Hills District,
Jowai

Divisional Soil & Water Conservation Officer
Jaintia Hills (T) Division
Jowai

Detail of types of areas covered under the IWMP Programme:

1	2	3	4	5	6		7	8	9	10				11				
Sl no	Name of state	Name of Districts	Names of Projects	Year of Sanction	Project Duration (dd/mm/yyyy)		Area of the Projects	Project cost (Rs.In Lakh)	Names of Micro watersheds &Code Nos.(As per Dolr's unique Codification)	Area of the Projects (Ha)				Area details (ha) (falling within the Projects)				
										Cultivated rainfed area	Cultivated irrigated area	Uncultivated wasteland		Pvt. Agri. Land	Forest land	Community Land	Others (pl. Specify)	Total Area (ha)
					From	To						a) Temporary fallow	b) Permanent					
1	Meghalaya	Jaintia Hills	JH-IWMP-IV	2010-2011	2010	2015	2125Ha	300.00	Wah Lama JH-IWMP-IV	389 Ha	-	1736 Ha	-	1020 Ha	90 Ha	390Ha	-	1500Ha
									Ramut JH-IWMP-IV	-	-	539 Ha	-	303Ha	30Ha	167 Ha	-	500Ha

Fund provision for the IWMP projects from all sources:

1	2	3		4										5
District	Name of projects	IWMP Fund		Funds from other sources in addition to IWMP funds										Total
				Convergence funds		PPP		Community		Institutional finance		Others (Pl. specify)		
		Central share Rs in lakhs	State share Rs in lakhs	Name of Scheme	Amount Rs in lakhs	Name of Private sector	Financial contri-bution	Name	Financial Contri-bution	Name	Financial Contri-bution	Name	Financial Contri-Bution	
Jaintia Hills	JH-IWMP-IV	270	30	MGNREGA	21.15	NIL	NIL	-	-	-	-	-	-	321.15

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

1	2	3	4	5				6				
				Distt. Agency 's Project Account details				Watershed Committee (WC) account details:				
Sl No.	Names of States	Name of Districts	Name of Projects	Name of the Bank and Branch Where Project account has been opened	Account No. (tobe obtained confidentially)	Account type (Savings/ Current/ Others)	Name & Designat ion of authoriz ed Persons who operate the Account.	Name of Watershed comm-ittee	Name of the Bank and Branch Where project account has been opened	Account number (to be obtained confident ially)	Account type (savings/ current others)	Name & Designation of authorized persons who operate the account.
1	Meghalay a	Jaintia Hills	J.H.- IWMP-IV	SBI Ladthalaboh Jowai Branch	30977895076	Saving	Shri D.Shalla m	1.Wah Lama W/S Committee 2. Ramut W/S Committee	Under Process	-	-	-

Details of convergence of IWMP with other Schemes:

1	2	3	4	5	6	7
District	**Name of Projects**	**Name of Department with scheme converging with IWMP**	**Fund made available to IWMP due to convergence (Rs. in lakh)**	**Name of activity / task/ structure undertaken with converged funds** **(a) Structures** **(b) Livelihood.** **(c)Land development**	**Reference no.of activity / task/ structure in DPR @**	**Level at which decision for convergence was taken$**
Jaintia Hills	JH – IWMP-IV	DRDA, Under MGNREGA	21.15	(a)	DPR	District level

Public – Private partnership in the IWMP Project:

1	2	3	4			5		6	7	8	9
District	**Name of Project**	**Name of Private sector partner agency**	**Type of agreement signed**			**Financial contribution**		**Partners-hip Intervent ions**	**Expected Outcomes**	**Actual outcomes**	**Comments**
			(a) MoU	**b) Contract**	**c)Any others (pl. specify)**	**IWMP**	**Private sector**				
Jaintia Hills	JH – IWMP-IV	**NIL**	**NIL**	**NIL**	-	-	-	-	-	-	-

from column no.2 totals no. of State implementing the programme, from column, no 3, total no. of District; from column no. 4 total no. of project under PPP from column no.5 total no of private companies / agencies, from column no.7, total amount may be mention at the end of the table for the entire Country.

TO WHOM IT MAY CONCERN

This is to certify that decision has been taken in principle for convergence of works identified under MGNREGA for convergence with IWMP Project proposed by the Divisional Soil & Water Conservation Officer (T) Division PIA of IWMP Jaintia Hills District which will be planned and executed within the parameters of MGNREGA and convergence guidelines of IWMP.

Project Director
& Addl. District Programme Coordinator
DRDA Jaintia Hills District, Jowai.

Project Director/
& Addl. District Programme Coordinator
D.R.D.A., Jaintia Hills District, Jowai

CHAPTER VI

CAPACITY BUILDING

CHAPTER VI

CAPACITY BUILDING

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

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

1	2	3	4	5	6	7	8	9				
								Performance				
Sl 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$	Accre-ditation details	Refer-ence Year	No. of trainings assigned	No. of trainees to be trained	No. of trainings conducted	No. of trainees trained
1	Meghalaya	NIRD (NER)	Guwahati	Director	Central Govt.	Remote Sensing, Rural Devt.	NA					
2		SIRD	Nongsder	Director	State Govt.	Capacity Building	NA					
3		RRTC	Umran	Director	Don-Bosco	Agri-Horti, Animal Husbandry, Entrepreneurship	NA					
4		ICAR	Umiam	Director	Central Govt.	Do	NA					
5		VTC	Kyrdemkulai	Director	State Govt.	Animal Husbandry	NA	2010-11	30	100	3	20
6		Fruit Garden	Shillong	Director	State Govt.	Agri-Horti, Fruit Processing	NA					

- From Column no. 2, total no. of States implementing the programme, from Column no. 3, no. of training institutes, from column No. 9, total no. of category-wise trainings and trainees may be given at the end of the table for the entire country
- # Central govt. Dept./ State govt. Dept./ Autonomous Body/ Research Institutes/ Universities/ Others (pl. specify)

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

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

(i) Technical experts in fields required by IWMP
(ii) Past experiences
(iii) Annual Turnover
(iv) Receives funds either from the Central or State Government
(v) Publications
(vi) Not blacklisted by any Govt. organizations
(vii) Audited accounts
(viii) Organizational structure

Table 6.2: Capacity Building activities for the year 2010 – 11 as on 31/03/2011 (dd/mm/yyyy)*

1	2	3	4	5	6		7	
Project Stakeholder	**Total no. of persons.**	**No. of person trained so far**	**No. of person to be trained during current financial year**	**No. of person to be trained during current financial year**	**Sources of Funding for Training**		**Fund utilised(in Lakhs)**	
					(a) DoLR	**(b) Any others (pl. specify)**	**(a) DoLR**	**(b) Any others (State Govt)**
SLNA				-	(a)	(b)	2.70	0.30
DRDA/ ZP cell				-				
PIAs	20			10 Nos				
WDTs	10			10 Nos				
UGs	-			-				
SHGs	145			50 Nos				
WCs	30			30 Nos				
GPs	-			-				
Community	500			110 Nos				
Others (pl. specify)								

Table 6.3: Information, Education & Communication (IEC) activities for the year 10-11 as on 31/03/11 (dd/mm/yyy)*

1	2	3	4	5
Activity	**Executing agency**	**Estimated expenditure (Rs.)**	**Expenditure incurred (Rs.)**	**Outcome (may quantify, wherever possible)**
Awareness	S&WC (T) Division,Jaintia Hills	0.50	0.50	
PRA Exercises	S&WC (T) Division,Jaintia Hills	0.30	0.30	
Exposure Visits	S&WC (T) Division,Jaintia Hills	0.20	0.20	
Capacity Building	S&WC (T) Division,Jaintia Hills	2.00	2.00	

CHAPTER VII

EXPECTED OUTCOME

CHAPTER VII
EXPECTED OUTCOME

Table 7.1: Employment related outcomes:

Sl No	Name of Village	1										2				
		Wage employment										Self employment				
		No. of mandays					No. of beneficiaries					No. of beneficiaries				
		SC	ST	Others	Women	Total	SC	ST	Others	Women	Total	SC	ST	Others	Women	Total
1.	Shangpung	-	100 %	40500	27000	67500		100 %	615	615	1230		100 %	25	25	50
2.	Khliehrangnah	-	100 %	13500	9000	22500		100 %	197	197	394		100 %	21	21	42
Total				54000	36000	90000			812	812	1624			46	46	92

Table 7.2: Migration Details:

1	2	3	4	5	6	7	8	9	10	
Names of the Districts	Names of projects	Name of Village	No. of persons migrating	No. of days per year of migration	Major reason (s) for migrating	Distance of destination of migration from the village (Km)	Occupation during migration	Income from such occupation (Rs. In lakh)	For reduced migration identify major activities of IWMP responsible	
									(a) Structures	(b) Livelihoods
Jaintia Hills	JH – IWMP-IV	Nil	Nil	Nil	Nil	Nil	Nil	Nil	-	-

*From column no.2, total number of States, from column no.3, total no. of Districts; from column no.4, total no. of project; from column no.5, total no. of villages; from column no.6, total no. of persons migrating; from column no.7, average no. of days for annual migration; from column no.9, average distance of migration from the village and from column no.11, average income from occupation during migration, for the entire country may be given at the end of the Table.

Table 7.3: Economic benefits accrued to women:

1		2		3		4
Wages		**Training**		**Livelihoods**		**Total (Rs. In lakh)**
Women days	**Amount (Rs. In lakh)**	**No. of women participants**	**Amount (Rs. In lakh)**	**No. of women beneficiaries**	**Value of assistance provided (Rs. In lakh)**	
36000	3.60	15	0.15	46	2.01	5.76

- From Column no.2, total no. of States implementing the programme, from Column no.3 to 6, category- wise totals, may be mentioned at the end of the table for the entire country.

Table 7.4: Details of rights conferred in the CPRs of the project areas:

1	2	3	4	5	6	7				8
Names of the Districts	**Names of the Projects**	**Names of the Villages**	**Particular of CPR**	**Nature of right**	**Period of right**	**Beneficiary details (No. of families)**				**User Charges (Rs.)**
						SC	**ST**	**Others**	**Total**	
Jaintia Hills	JH – IWMP - IV	Shangpung	Community Forest Drinking wells	FW, WD	Whole years	-	350	-	350	Nil
		Khliehrangnah				-	167	-	167	Nil

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

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

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

F	for right to	fishing [culture, harvest and sale]
FW	for right to	collect firewood for domestic purposes
G	for right of	grazing for cattle and
MFP	for right to	collect and sell minor forest produces
P	for right to	passage across the CPR
Rd	for right to	construct a road for access to individual property
S/M	for right to	collect and sell sand and minerals
So	for right to	collect soil for nursery and plantation activities and constructions
T	for right to	collect timber for construction of house
Wd	for right to	collect/use water for drinking
Wi	for right to	use water for irrigation
O	for any right other than indicated above (please specify)	

Table 7.5: Water related outcomes:

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

1	2	3	4	5	6	7	8
Names of Districts	Names of Projects	Sources	Pre-Project level	Mid-term project level	Post-project level	Increase/decrease (Col.8-Col.6)	Remarks
Jaintia Hills	JH – IWMP-IV	Open wells	1.50	1.30	1.00	-	
		Bore wells	NA	NA	NA	NA	
		Others (specify)	-	-	-	-	

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

Table 7.5.2: Status of Drinking water:

1	2	3			4			5
District	**Name of Project**	**Availability of Drinking water (no. of month in a year)**			**Quality of Drinking water**			**Comments**
		Pre- project	**Post- project**	**Change in availability**	**Pre-project**	**Post- project**	**Change in availability**	
Jaintia Hills	**JH-IWMP - IV**	7-9 months	Above 12 months	Potable	Dirty & unhygienic drinking water	Moderately Potable	Clean & hygienic drinking water	

- **From column no. 2 total no. of states implementing the programme, from, column no.3 total no. of District, from column no. 4 category – wise no. of project, from column no. 5 average no. of month may be given at the end of the table for the entire country.**

Table 7.5.3: Water Use efficiency:

1	2	3	4			
District	**Name of Project**	**Name of major crop**	**Water saving in cu.m**			
			Through water saving device	**Through water conserving agronomic practices**	**Any others (pl. specify)**	**Total**
Jaintia Hills	JH-IWMP - IV	Paddy	-	Grass Mulching	-	
		Maize	-		-	
		Turmeric	-		-	

- * From column no. 2 total no. of states implementing the programme, from, column no.3 total no. of District, from column no. 4 total no. of project, from column no.6 practices –wise total may be mention at the end of the table for the entire country.

[s] Sprinkler, Drip PVC pipe etc.

[#] Vermi- Compost, Organic manuring, mulching, Check basin, alternate furrow, ridges & furrow and other scientific practices.

Table 7.6: Vegetation/ crop related outcomes:

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

1	2	3	4						5						6					
Names of the District	Name of Project	Name of Crops	Pre-Project						Mid-Term						Post-Project					
			Area (ha)		Average yield (Qtl) /ha		Total production (Qtl)		Area (ha)		Average yield (Qtl) /ha		Total production (Qtl)		Area (ha)		Average yield (Qtl) /ha		Total production (Qtl)	
			Irri	Rf	Irri	Rf	Irri	Rf	Irri	Rf	Irri	Rf	Irri	Rf	Irri	Rf	Irri	Rf	Irri	Rf
Jaintia Hills	JH-IWMP -IV	Paddy	-	336	-	9	-	3024												
		Maize	-	25	-	15	-	375												
		Turmeric	-	28	-	20	-	560												

- * * From column no. 2 total no. of states, from column no.3 total no. of District, from column no. 4 total no. of project, from column no.5 total no. of crop from column no.6 to 8 the total for the area average yield per ha and total production category–wise entire country may be given at the end of the table for the

-: Irri – Irrigated, Rf- Rainfed.

Table 7.6.2: Details of Rabi crop area and yield in the project areas:

1	2	3	4	5	6						7						8					
Sl No.	**Names of States**	**Names of the District**	**Name of Project**	**Name of Crops**	**Pre-Project**						**Mid-Term**						**Post-Project**					
					Area (ha)		**Average yield (Qtl) /ha**		**Total production (Qtl)**		**Area (ha)**		**Average yield (Qtl) /ha**		**Total production (Qtl)**		**Area (ha)**		**Average yield (Qtl) /ha**		**Total production (Qtl)**	
					Irri	**Rf**	**Irri**	**Rf**	**Irri**	**Rf**	**Irri**	**Rf**	**Irri**	**Rf**	**Irri**	**Rf**	**Irri**	**Rf**	**Irri**	**Rf**	**Irri**	**Rf**
1	Meghalaya	Jaintia Hills	JH-IWMP- IV	Potato	-	-	-	-	-	-												
				Cabbage	-	-	-	-	-	-												
				Tomato	-	-	-	-	-	-												
			Total																			

* From column no. 2 total no. of states, from column no.3 total no. of District, from column no. 4 total no. of project, from column no.5 total no. of crop from column no.6 to 8 the total for the area average yield per ha and total production category–wise entire country may be given at the end of the table for the

-: Irri – Irrigated, Rf- Rainfed.

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

1	2	3	4	5	6						7						8					
Sl No.	Names of States	Names of the District	Name of Project	Name of Crops	Pre-Project						Mid-Term						Post-Project					
					Area (ha)		Average yield (Qtl) /ha		Total production (Qtl)		Area (ha)		Average yield (Qtl) /ha		Total production (Qtl)		Area (ha)		Average yield (Qtl) /ha		Total production (Qtl)	
					Irri	Rf	Irri	Rf	Irri	Rf	Irri	Rf	Irri	Rf	Irri	Rf	Irri	Rf	Irri	Rf	Irri	Rf
1	Meghalaya	Jaintia Hills	JH-IWMP-IV	Nil																		
			Total for the District																			

- ***** * From column no. 2 total no. of states, from column no.3 total no. of District, from column no. 4 total no. of project, from column no.5 total no. of crop from column no.6 to 8 the total for the area average yield per ha and total production category–wise entire country may be given at the end of the table for the

-: Irri – Irrigated, Rf- Rainfed.

Table 7.6.4: Increase/ Decrease in area under fodder:

1	2	3	4			5		
District	Name of Project	Duration of Project	Existing area under fodder (ha)			Achievement (ha)		
			Source/ Name of report	Year of reference	Area already under fodder	Area under fodder proposed to be covered through IWMP	Area under fodder actually covered through IWMP	Change in area under fodder
Jaintia Hills	JH- IWMP-IV	5 Years	NIL	NIL	NIL	NIL	NIL	

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

Table 7.6.5: Increase/ Decrease in Forest/vegetation cover:

1	2	3	4			5		
District	Name of Project	Duration of Project	Existing 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
Jaintia Hills	JH- IWMP-IV	5 Years	LULC Map NEESAC Umiam	2005-06	As per Map	887		

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

Table 7.6.6: Increase/ Decrease in area under horticulture

1	2	3	4			5		
District	Name of Project	Duration of Project	Existing area under horticulture (ha)			Achievement (ha)		
			Source/ Name of report	Year of reference	Area already under horticulture	Area under horticulture proposed to be covered through IWMP	Area under horticulture actually covered through IWMP	Change in area under horticulture
Jaintia Hills	JH-IWMP-IV	5 Years	Field Survey Report	2010	5	300		

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

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

1	2	3	4			5		
District	Name of Project	Duration of Project	Existing area under fuel-wood (ha)			Achievement (ha)		
			Source/ Name of report	Year of reference	Area already under fuel-wood	Area under fuel-wood proposed to be covered through IWMP	Area under fuel-wood actually covered through IWMP	Change in area under fuel-wood
Jaintia Hills	JH IWMP-IV	5 Years	Filed Survey Report	2010	Nil	Nil	-	-

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

Table 7.7: Livelihood related outcomes:

Table 7.7.1: Details of livestock in the project areas (for fluids please mention in litres, for solids please mention in kgs. and income in Lakhs):

1	2	3	4			5			6			7
Name of the District	Name of the Project	Type of Animal	Pre-Project			Mid-term			Post-project			Remarks
			No.	Yield	Income	No.	Yield	Income	No.	Yield	Income	
Jaintia Hills	JH-IWMP-IV	Milch-animals	Nil	Nil	Nil	Nil	Nil	Nil	3	10800 Lts	1.62	
		Poultry	2283	-	7.99							
		Piggery	308	-	18.48							
		Cow	251	-	20.08							
		Goat	31	-	0.62							
	Total for project		2873		47.17							
Total for all Districts												

*From Column no.2, total number of States, from Column no.3,total no. of Districts; from column no.4, total no. of projects, from column no.5 to 8, the total nos. of animals and the average yield and incomes, category-wise, for the entire Country may be given at the end of the Table.

Table 7.7.2: Details of other livelihoods created for landless people:

1	2	3	4	5				6	7					8				
District	Project	Name of activity	Funds Required for the activity (Rs.)	Sources of funding (Rs.)				Actual Expenditure incurred on activity (Rs.)	No. of beneficiaries trained					No. of beneficiaries taking up activity				
				Project fund	Benefi -ciary	Others (pl.specify)	Total		SC	ST	Others	Women	Total	SC	ST	Others	Women	Total
Jaintia Hills	JH-IWMP-IV	Tailoring	8000/-	7600/-	400/-	-	8000/-	8000/-	-	12		12	12	12		12	12	12
		Hallow block making	5000/-	4750/-	250/-	-	5000/-	5000/-	-	6	6	-	6	6	6	-	6	6

*From Column no.2, total number of States, from Column no.3, total no. of Districts; from column no.4, total no. of projects, from column no.5, total no. of activities,from column no.6,total funds required for the activity, from column no. 7 to 12, category-wise totals, from column no. 13, category-wise totals, for the entire Country may be given at the end of the Table.

Table 7.7.3: Details of other livelihoods created for landless people:

9		10	11				12
No. of persons employed in directly in the activity		Annual increase in income due to activity (Rs.)	Impact of livelihoods programmes				Any other information (pl.Specify)
			Migration (No. beneficiaries)		Development of backward- forward linkages		
Total	Grand Total (8+9)		Pre-project	Post-project	Pre-project	Post-project	
2	14	24000/-	NIL	NIL	-	-	-
4	10	28000/-	NIL	NIL	-	-	-

Table 7.7.4: Details of other livelihoods created for farmers:

1	2	3	4	5				6	7				8			
District	Project	Name of activity	Funds of required for the activity (Rs.)	Source of funding (Rs.)				Actual Expenditure incurred on activity (Rs.)	No. Farmers trained				No. of Farmers taking up activity			
				Project fund	Beneficiary	Others (please. specify)	Total		SF	MF	LF	Total	SF	MF	LF	Total
Jaintia Hills	JH-IWMP-IV	Vermico-mpost / Weaving	12,500/-	11,875/-	625/-	-	12,500/-	12,500/-	14	-	-	14	12	-	-	12
		Mud brick making / Piscicultu-re	10,000/-	9,500/-	500/-	-	10,000/-	10,000/-	16	-	-	16	10	-	-	10

*From column no.2, total no. of State, from column no.3, total no. of District; from column no. 4, no. of projects; from column no. 5, total no. of activities, from column 6, no total . of fund required for the activity, from column no. 7 to 12, category-wise total, from column no. 13 cartegory-wise total for the entire country may be given at the end of the table.

Table 7.7.5: Details of other livelihoods created for farmers * (contd.)

9		10	11				12
No. of persons employed indirectly		Annual increase in income due to activity (Rs.)	Impact of livelihood programme				Any other information (Pl. Specify)
			Migration (No. of beneficiaries)		Development of backward-forward linkage		
Total	Grand total (8+9)		Pre-project	Post-project	Pre-project	Post-project	
5	17	26000/-	NIL	NIL	-	-	
8	18	25000/-	NIL	NIL	-	-	

Table 7.8: Marketing related outcomes:

Backward-Forward linkages *

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

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

Table 7.9: Abstract of outcomes:

1	2	3	4	5	6	7
S. No.	**State**	**Item**	**Unit**	**Pre-project Status**	**Post-project Status**	**Remarks**
		Status of Water table		-	-	
		Ground water structures repaired/rejuvenated	No	Nil	-	
		Quality of drinking water		Moderate potable	-	
		Availability of drinking water		Insufficient	-	
		Increase in irrigation potential	Ha	Nil	-	
		Chang in cropping/ land use pattern				
		i Area under single crop	Ha	389Ha	-	
		ii Area under double crop	Ha	Nil	-	
		iii Area under multiple crop	Ha	Nil	-	
		Net increase in crop production area	Ha	Nil	-	
		Increase in area under vegetation	Ha	Nil	-	
		Increase in area under horticulture	Ha	Nil	-	
		Increase in area under fuel & fodder	Ton/Day	Nil	-	
		Increase in milk production	Lit/yr	Nil	-	
		No. of SHGs	Nos	3	-	
		Increase in no. of livelihoods	Nos	Nil	-	
		Increase in income	Rs/Nos/Ha	18000/-	-	
		Migration	Nos	Nil	-	
		No. of school going children	Nos	1300	-	
		SHG Federations formed	Nos	Nil	-	
		Credit linkage with banks	Nos	Nil	-	
		Resource use agreements	Nos	Nil	-	
		WDF collection & managements		Nil	-	
		Summary of lessons learnt				

Table 7.10: Cost effectiveness of structures/ activities*

1	2	3	4	5	6	7	8	9	10
District	**Name of project**	**Name of WC**	**Name of structure/activity**	**Estimated cost (Rs.)**	**Expected quantifiable benefits (Rs.)**	**Expenditure incurred (Rs.)**	**Actual quantifiable benefit (Rs.)**	**Benefit: Cost ratio#**	**IRR**
Jaintia Hills	JH-IWMP-IV	Wah Lama & Ramut	As per Treatment Plan	234.00	351.00	234.00	-	1.25	-

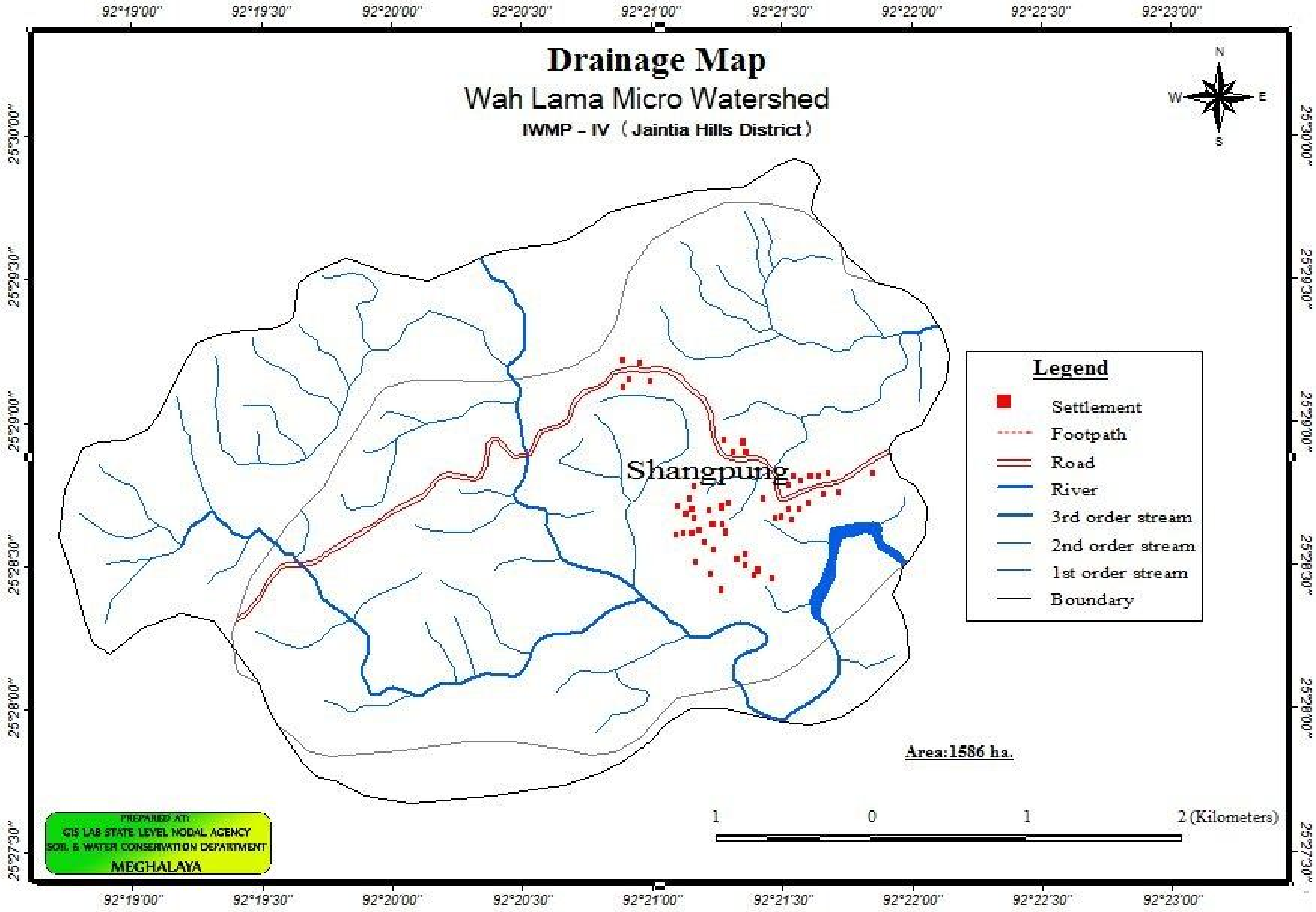
*From column no.2, total no. of State implementing the programme, from column no.3, total no. of District; from column no. 4, no. of projects; from column no. 5, no of WCs, fro column 6, no. of structures/ activities, fro column no. 7 to 10, category-wise# totals may be mentioned at the end of the table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

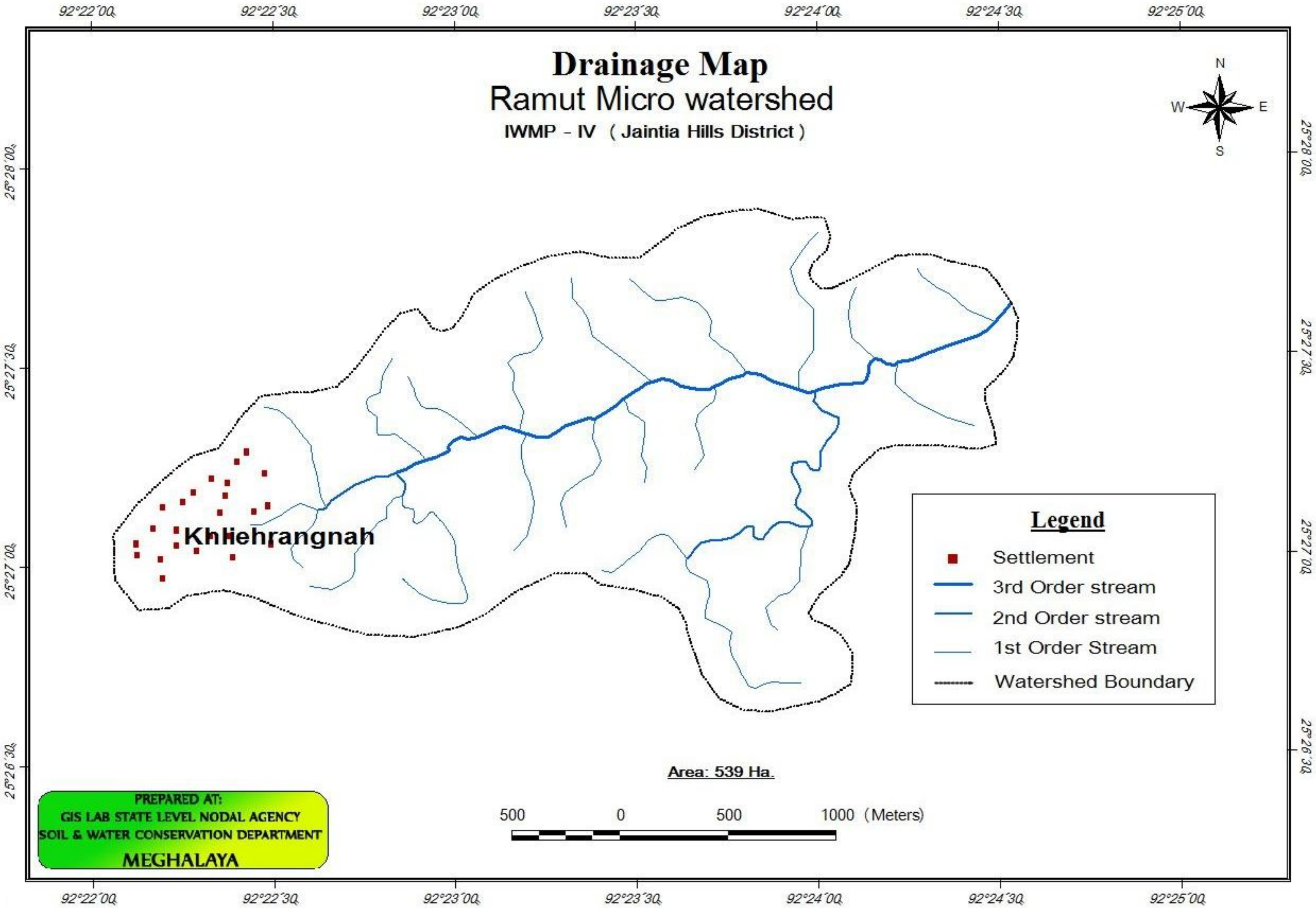
B:C ratio more than 1 – cost effective

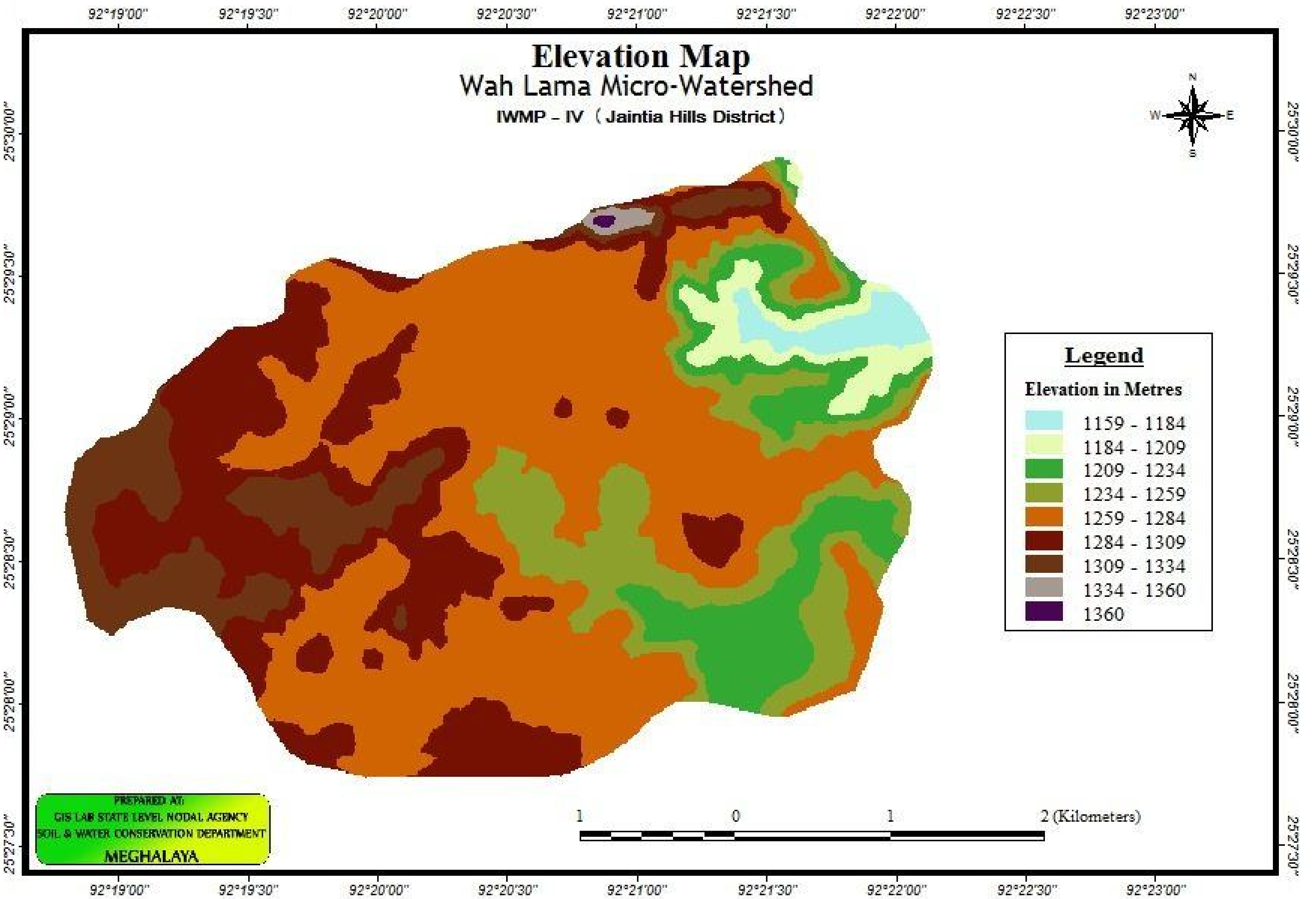
Less than 1- Not cost effective

ANNEXURE I

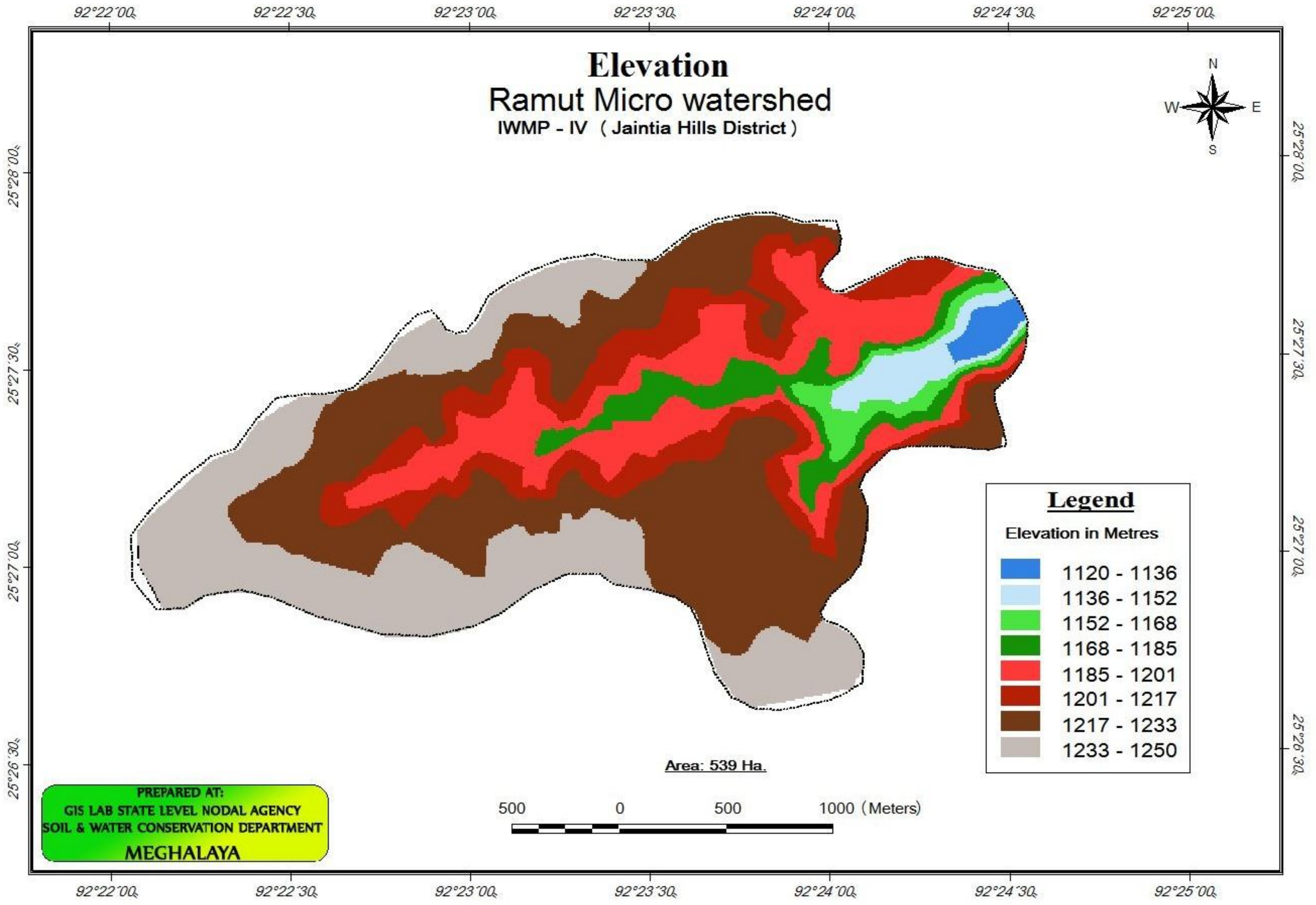
MAPS

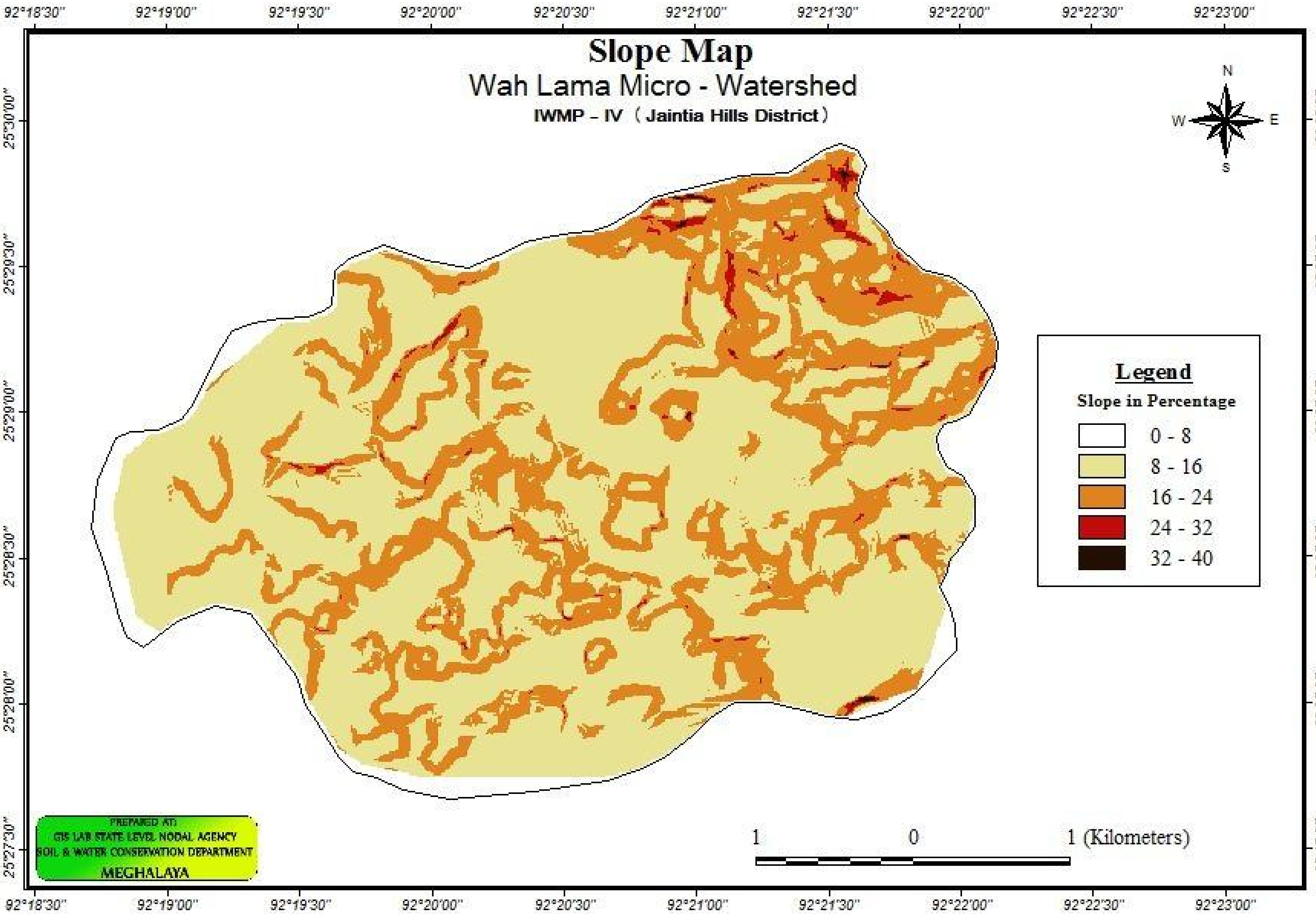

Drainage Map
Wah Lama Micro Watershed
IWMP - IV（Jaintia Hills District）
N
W
E
S
Legend
Settlement
Footpath
Road
River
3rd order stream
2nd order stream
1st order stream
Boundary
Shangpung
Area:1586 ha.
1
0
1
2 (Kilometers)
PREPARED AT:
GIS LAB STATE LEVEL NODAL AGENCY
SOIL & WATER CONSERVATION DEPARTMENT
MEGHALAYA
92°19'00"
92°19'30"
92°20'00"
92°20'30"
92°21'00"
92°21'30"
92°22'00"
92°22'30"
92°23'00"
25°30'00"
25°29'30"
25°29'00"
25°28'30"
25°28'00"
25°27'30"

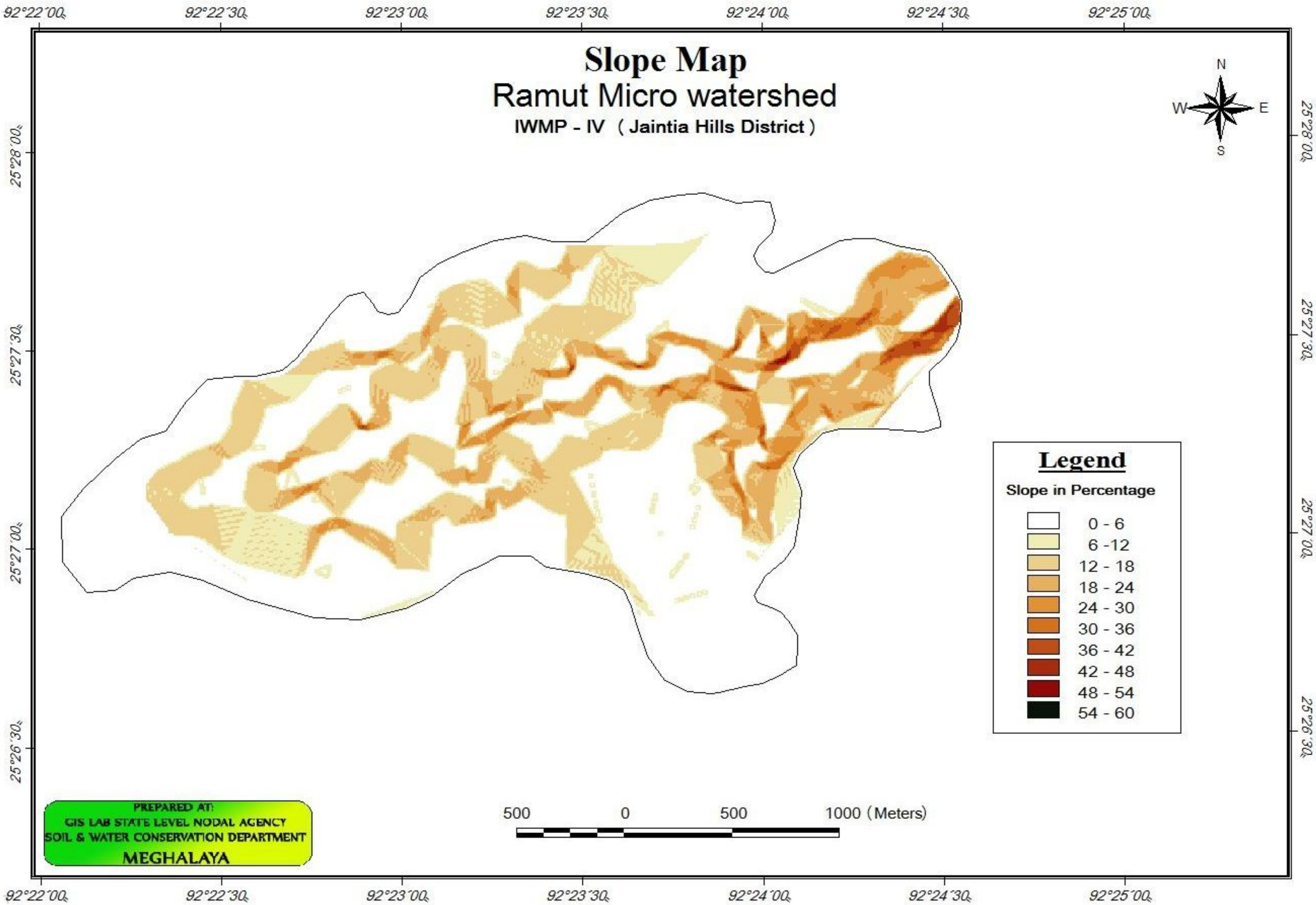

Drainage Map
Ramut Micro watershed
IWMP - IV (Jaintia Hills District)
N
W
E
S
Khliehrangnah
Legend
Settlement
3rd Order stream
2nd Order stream
1st Order Stream
Watershed Boundary
Area: 539 Ha.
500 0 500 1000 (Meters)
PREPARED AT:
GIS LAB STATE LEVEL NODAL AGENCY
SOIL & WATER CONSERVATION DEPARTMENT
MEGHALAYA
92°22´00
92°22´30
92°23´00
92°23´30
92°24´00
92°24´30
92°25´00
25°28´00
25°27´30
25°27´00
25°26´30

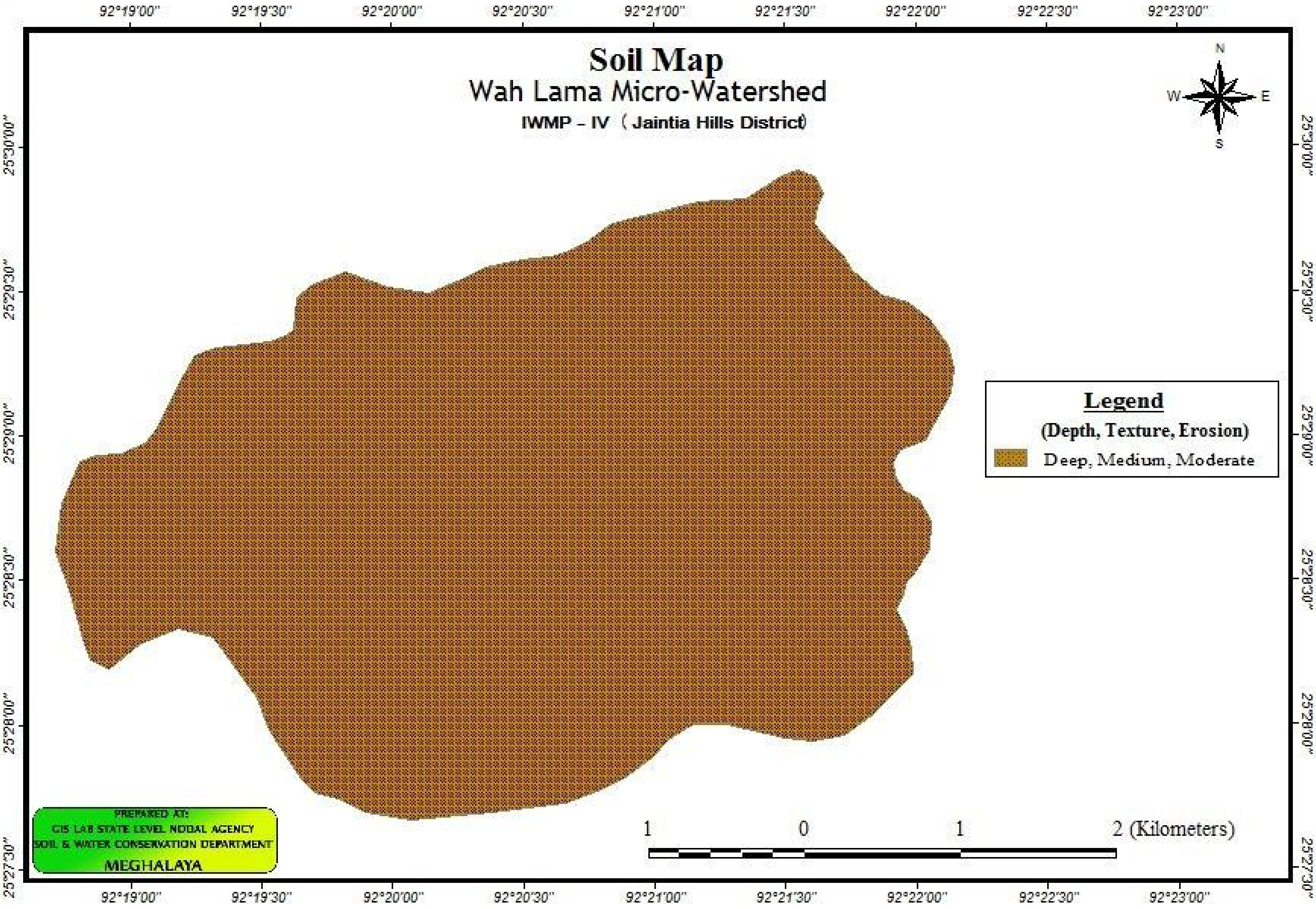


Elevation Map
Wah Lama Micro-Watershed
IWMP - IV (Jaintia Hills District)
N
W
E
S
Legend
Elevation in Metres
1159 - 1184
1184 - 1209
1209 - 1234
1234 - 1259
1259 - 1284
1284 - 1309
1309 - 1334
1334 - 1360
1360
1 0 1 2 (Kilometers)
PREPARED AT:
GIS LAB STATE LEVEL NODAL AGENCY
SOIL & WATER CONSERVATION DEPARTMENT
MEGHALAYA
92°19'00" 92°19'30" 92°20'00" 92°20'30" 92°21'00" 92°21'30" 92°22'00" 92°22'30" 92°23'00"
25°30'00" 25°29'30" 25°29'00" 25°28'30" 25°28'00" 25°27'30"

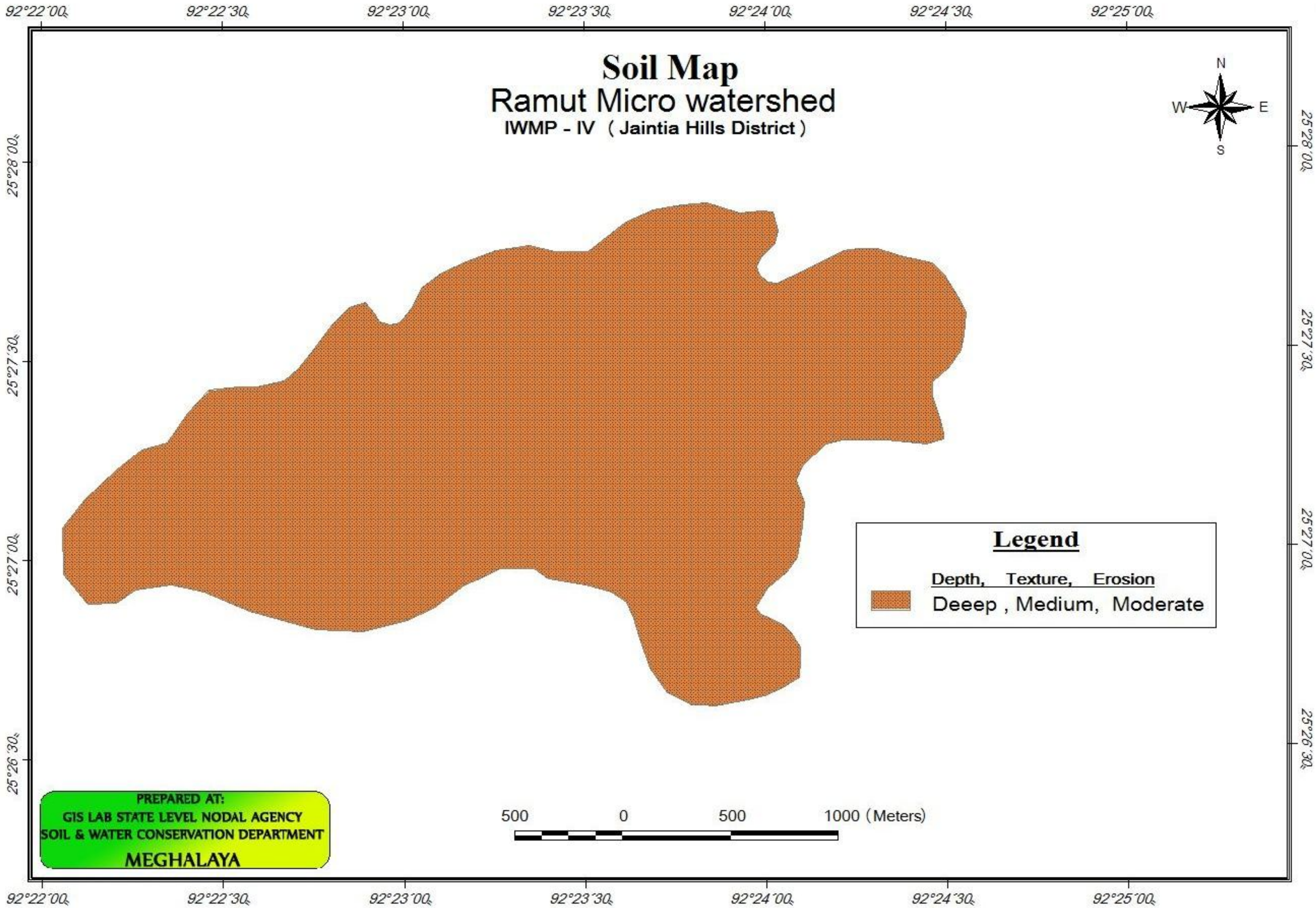

Elevation
Ramut Micro watershed
IWMP - IV (Jaintia Hills District)
N
W
E
S
Legend
Elevation in Metres
1120 - 1136
1136 - 1152
1152 - 1168
1168 - 1185
1185 - 1201
1201 - 1217
1217 - 1233
1233 - 1250
Area: 539 Ha.
500 0 500 1000 (Meters)
PREPARED AT:
GIS LAB STATE LEVEL NODAL AGENCY
SOIL & WATER CONSERVATION DEPARTMENT
MEGHALAYA
92°22'00"
92°22'30"
92°23'00"
92°23'30"
92°24'00"
92°24'30"
92°25'00"
25°28'00"
25°27'30"
25°27'00"
25°26'30"

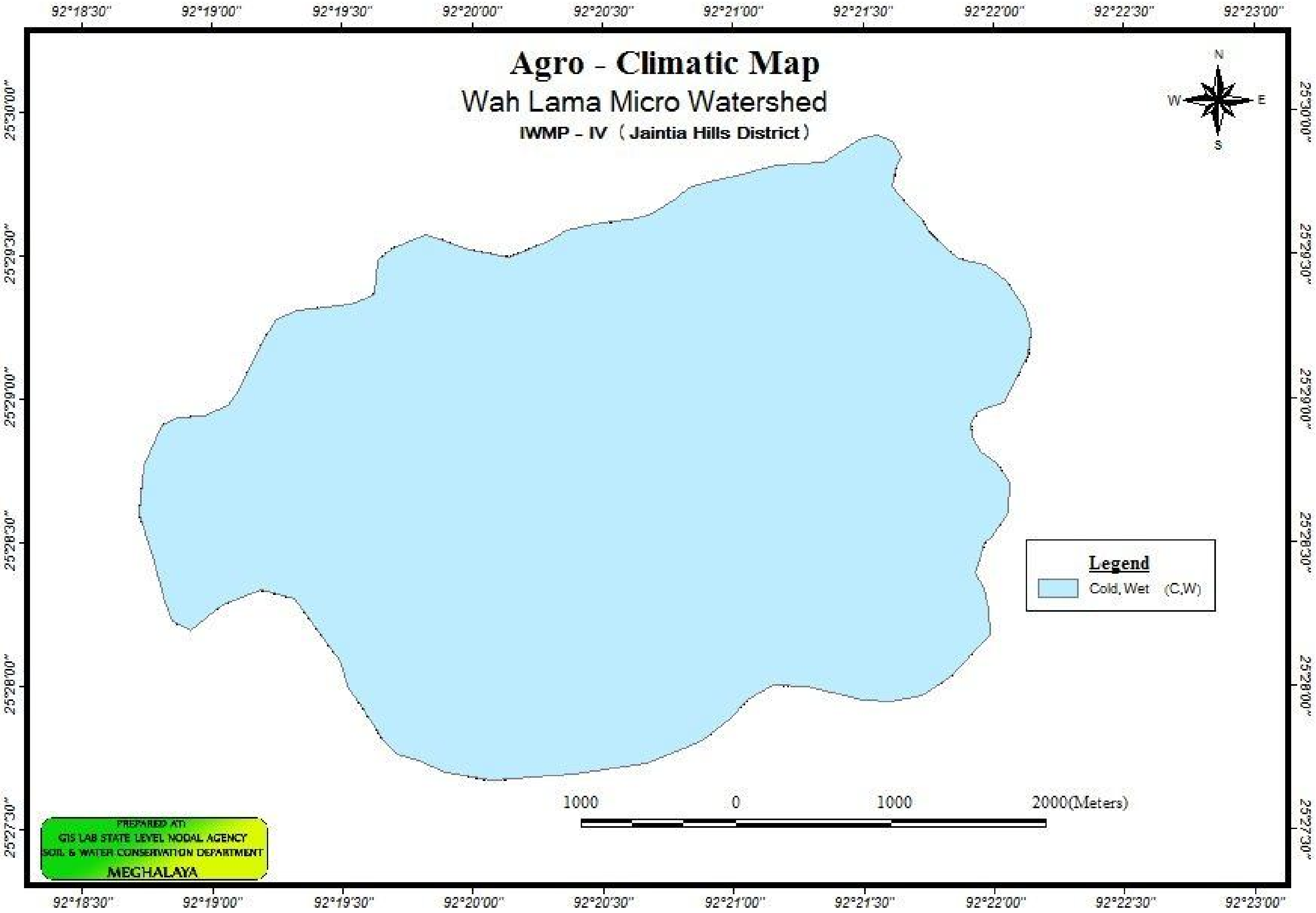

Slope Map
Wah Lama Micro - Watershed
IWMP - IV (Jaintia Hills District)
N
W
E
S
Legend
Slope in Percentage
0 - 8
8 - 16
16 - 24
24 - 32
32 - 40
1 0 1 (Kilometers)
PREPARED AT:
GIS LAB STATE LEVEL NODAL AGENCY
SOIL & WATER CONSERVATION DEPARTMENT
MEGHALAYA
92°18'30" 92°19'00" 92°19'30" 92°20'00" 92°20'30" 92°21'00" 92°21'30" 92°22'00" 92°22'30" 92°23'00"
25°30'00" 25°29'30" 25°29'00" 25°28'30" 25°28'00" 25°27'30"

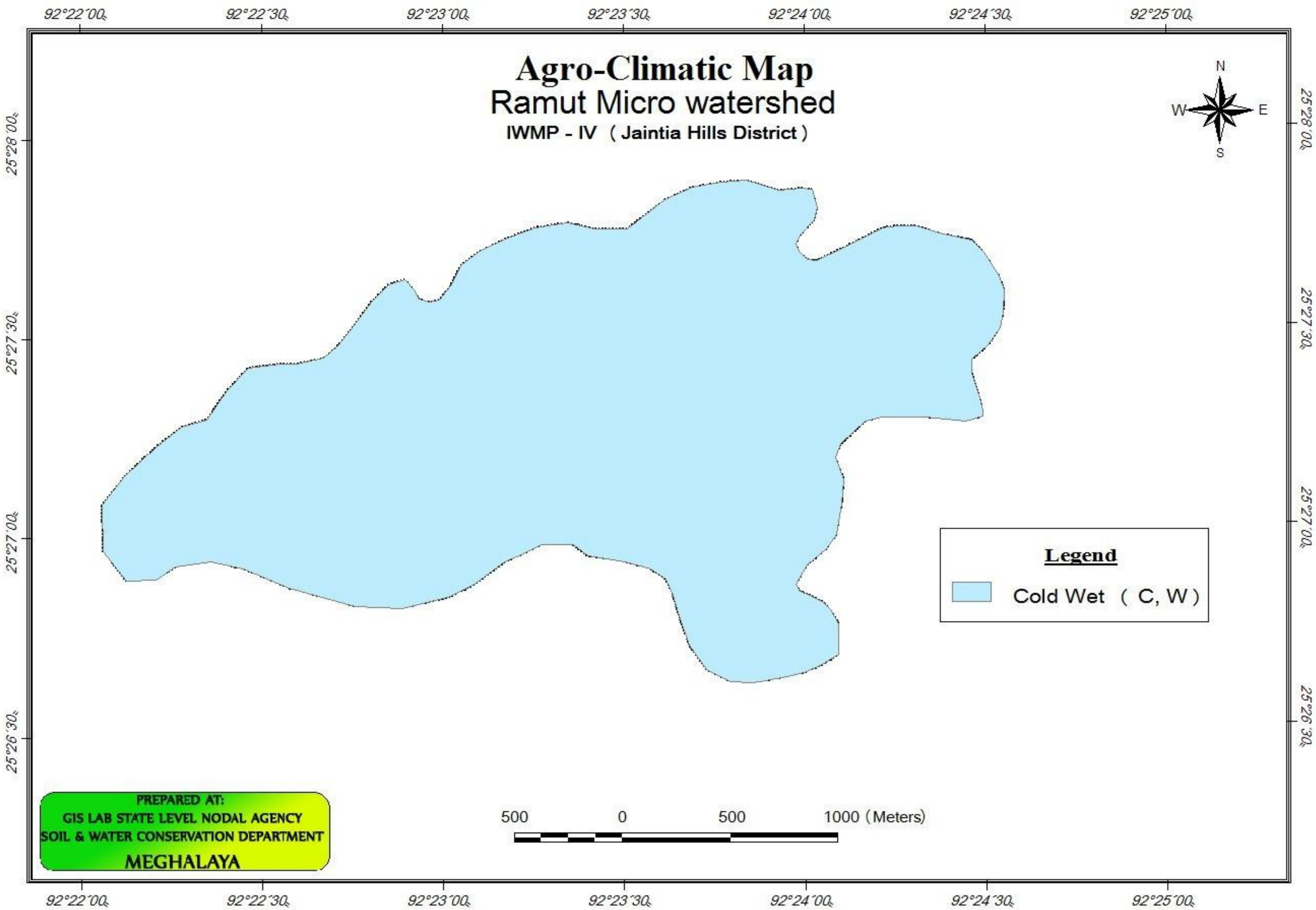

Slope Map
Ramut Micro watershed
IWMP - IV (Jaintia Hills District)
N
W
E
S
Legend
Slope in Percentage
0 - 6
6 -12
12 - 18
18 - 24
24 - 30
30 - 36
36 - 42
42 - 48
48 - 54
54 - 60
500
0
500
1000 (Meters)
PREPARED AT:
GIS LAB STATE LEVEL NODAL AGENCY
SOIL & WATER CONSERVATION DEPARTMENT
MEGHALAYA
92°22'00"
92°22'30"
92°23'00"
92°23'30"
92°24'00"
92°24'30"
92°25'00"
25°28'00"
25°27'30"
25°27'00"
25°26'30"



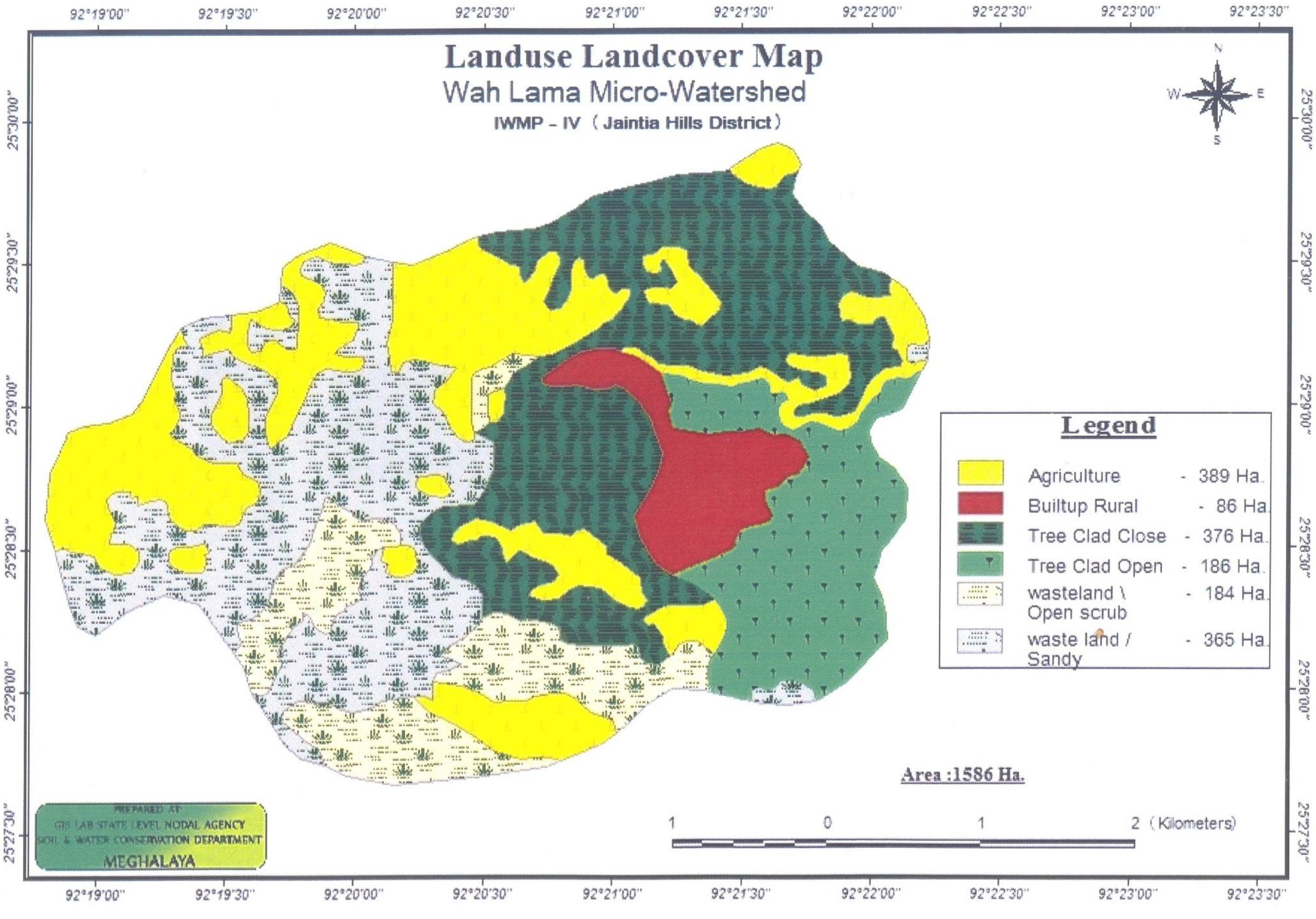
Soil Map
Wah Lama Micro-Watershed
IWMP - IV (Jaintia Hills District)
N
W
E
S
92°19'00"
92°19'30"
92°20'00"
92°20'30"
92°21'00"
92°21'30"
92°22'00"
92°22'30"
92°23'00"
25°30'00"
25°29'30"
25°29'00"
25°28'30"
25°28'00"
25°27'30"
Legend
(Depth, Texture, Erosion)
Deep, Medium, Moderate
1 0 1 2 (Kilometers)
PREPARED AT:
GIS LAB STATE LEVEL NODAL AGENCY
SOIL & WATER CONSERVATION DEPARTMENT
MEGHALAYA

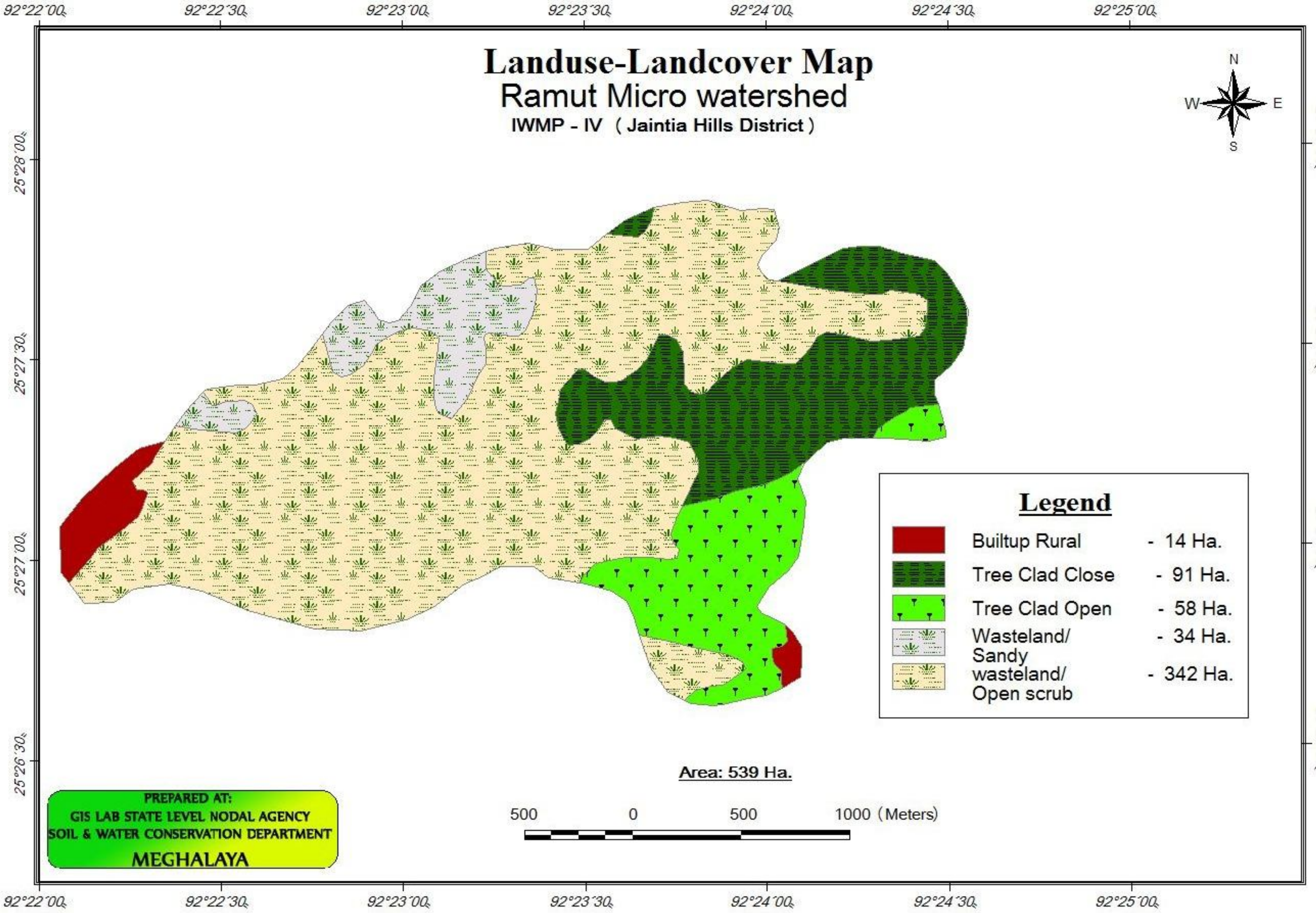

Soil Map
Ramut Micro watershed
IWMP - IV (Jaintia Hills District)
N
W
E
S
Legend
Depth, Texture, Erosion
Deeep , Medium, Moderate
PREPARED AT:
GIS LAB STATE LEVEL NODAL AGENCY
SOIL & WATER CONSERVATION DEPARTMENT
MEGHALAYA
500 0 500 1000 (Meters)
92°22´00"
92°22´30"
92°23´00"
92°23´30"
92°24´00"
92°24´30"
92°25´00"
25°28´00"
25°27´30"
25°27´00"
25°26´30"


Agro - Climatic Map
Wah Lama Micro Watershed
IWMP - IV (Jaintia Hills District)
N
W
E
S
Legend
Cold, Wet (C,W)
1000
0
1000
2000(Meters)
PREPARED AT:
GIS LAB STATE LEVEL NODAL AGENCY
SOIL & WATER CONSERVATION DEPARTMENT
MEGHALAYA
92°18'30"
92°19'00"
92°19'30"
92°20'00"
92°20'30"
92°21'00"
92°21'30"
92°22'00"
92°22'30"
92°23'00"
25°30'00"
25°29'30"
25°29'00"
25°28'30"
25°28'00"
25°27'30"

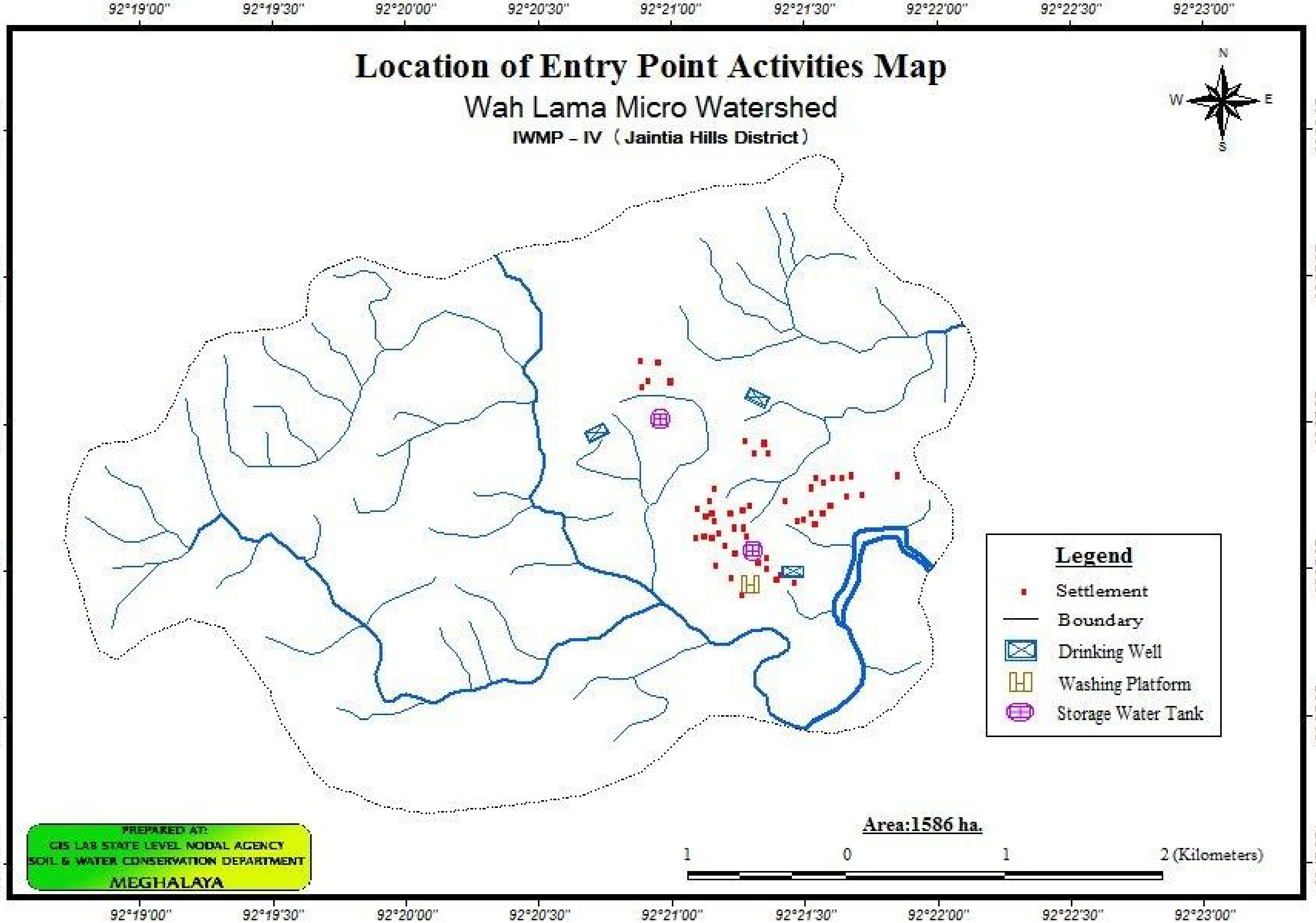


92°22'00"
92°22'30"
92°23'00"
92°23'30"
92°24'00"
92°24'30"
92°25'00"
25°28'00"
25°27'30"
25°27'00"
25°26'30"
Agro-Climatic Map
Ramut Micro watershed
IWMP - IV (Jaintia Hills District)
N
W
E
S
Legend
Cold Wet (C, W)
PREPARED AT:
GIS LAB STATE LEVEL NODAL AGENCY
SOIL & WATER CONSERVATION DEPARTMENT
MEGHALAYA
500 0 500 1000 (Meters)

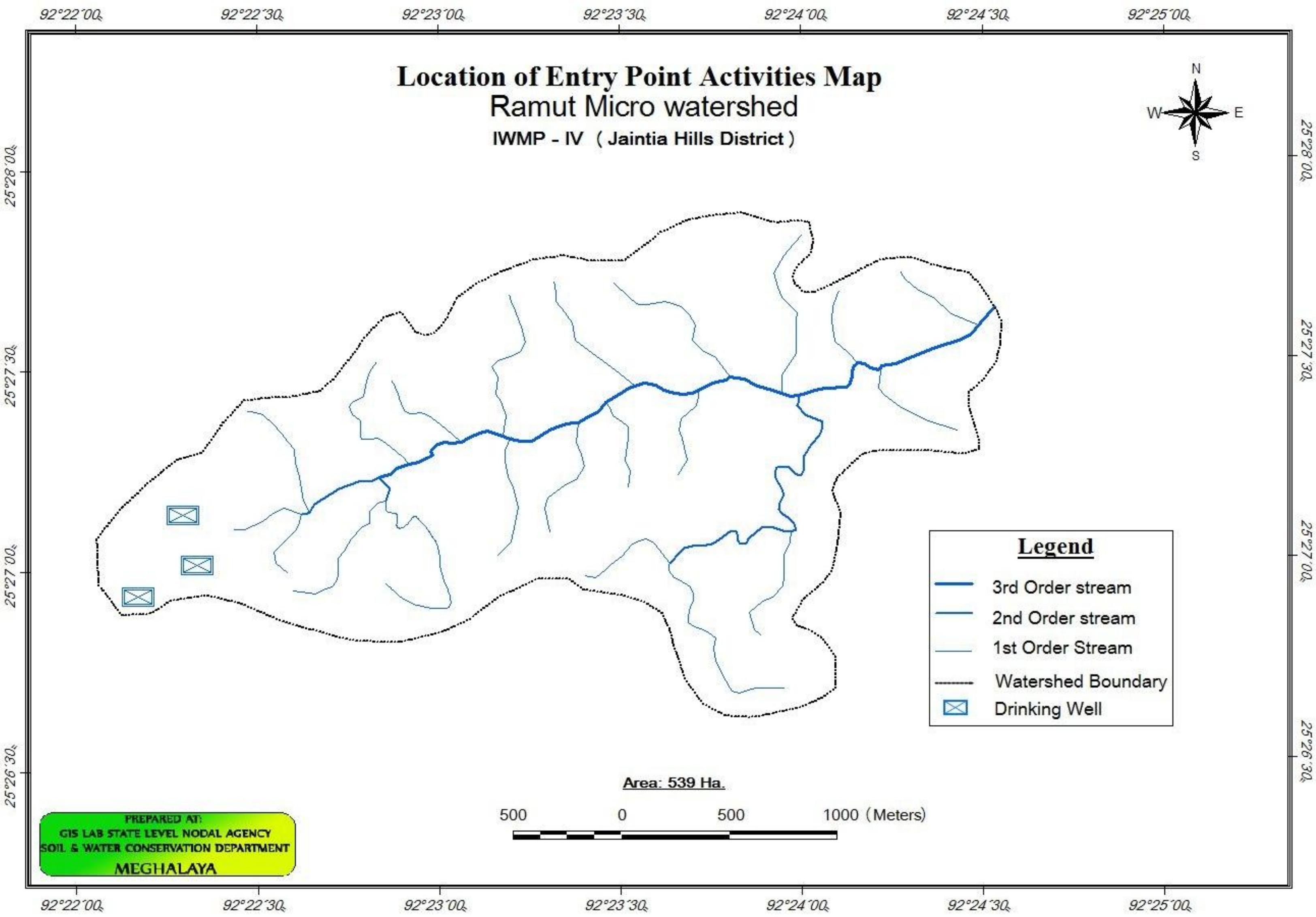

Landuse Landcover Map
Wah Lama Micro-Watershed
IWMP - IV (Jaintia Hills District)
Legend
Agriculture - 389 Ha.
Builtup Rural - 86 Ha.
Tree Clad Close - 376 Ha.
Tree Clad Open - 186 Ha.
wasteland \ Open scrub - 184 Ha.
waste land / Sandy - 365 Ha.
Area :1586 Ha.
1 0 1 2 (Kilometers)
PREPARED AT
GIS LAB STATE LEVEL NODAL AGENCY
SOIL & WATER CONSERVATION DEPARTMENT
MEGHALAYA
92°19'00" 92°19'30" 92°20'00" 92°20'30" 92°21'00" 92°21'30" 92°22'00" 92°22'30" 92°23'00" 92°23'30"
25°30'00" 25°29'30" 25°29'00" 25°28'30" 25°28'00" 25°27'30"

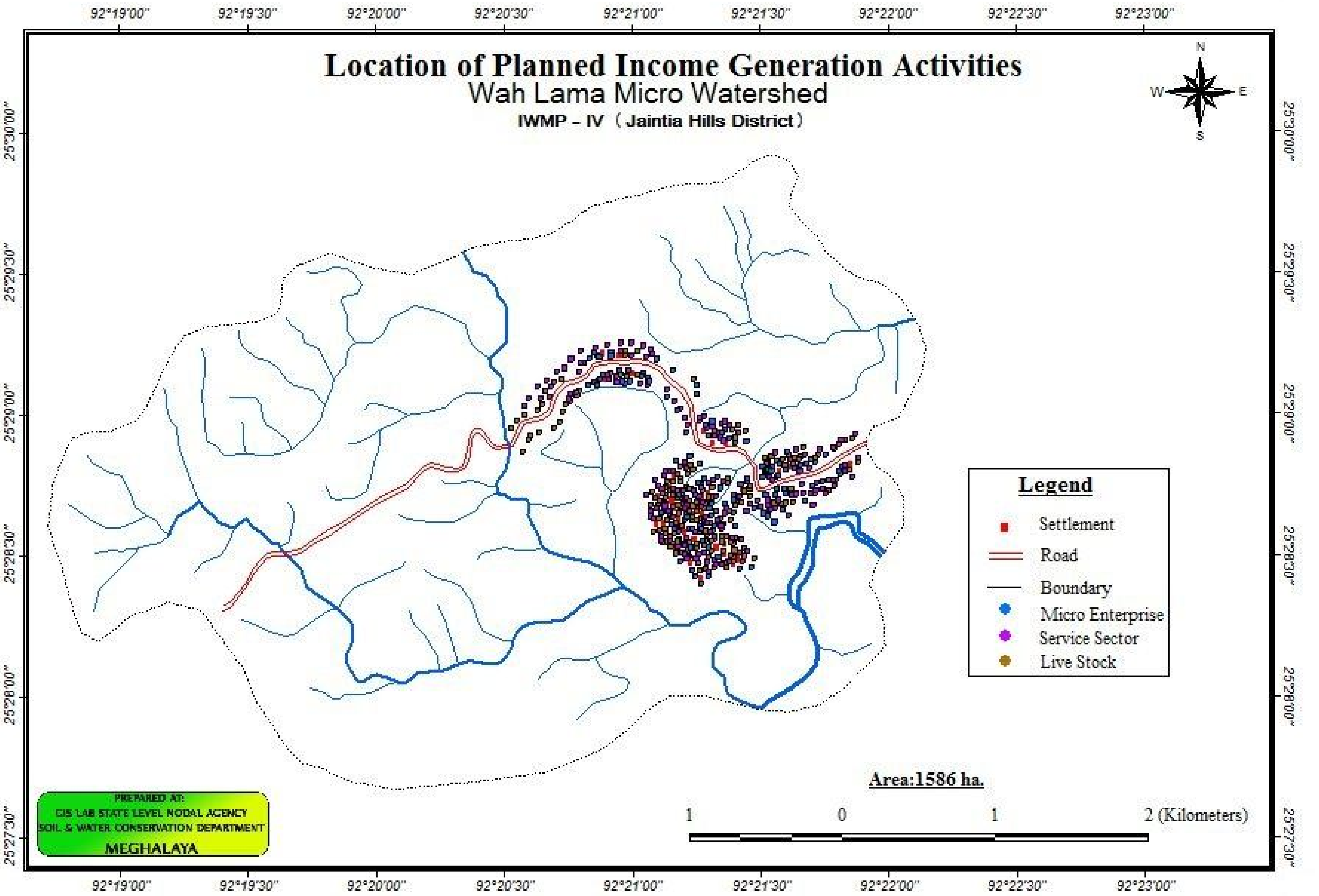


Landuse-Landcover Map
Ramut Micro watershed
IWMP - IV (Jaintia Hills District)
N
W
E
S
Legend
Builtup Rural - 14 Ha.
Tree Clad Close - 91 Ha.
Tree Clad Open - 58 Ha.
Wasteland/ Sandy - 34 Ha.
wasteland/ Open scrub - 342 Ha.
Area: 539 Ha.
500 0 500 1000 (Meters)
PREPARED AT:
GIS LAB STATE LEVEL NODAL AGENCY
SOIL & WATER CONSERVATION DEPARTMENT
MEGHALAYA
92°22´00
92°22´30
92°23´00
92°23´30
92°24´00
92°24´30
92°25´00
25°28´00
25°27´30
25°27´00
25°26´30

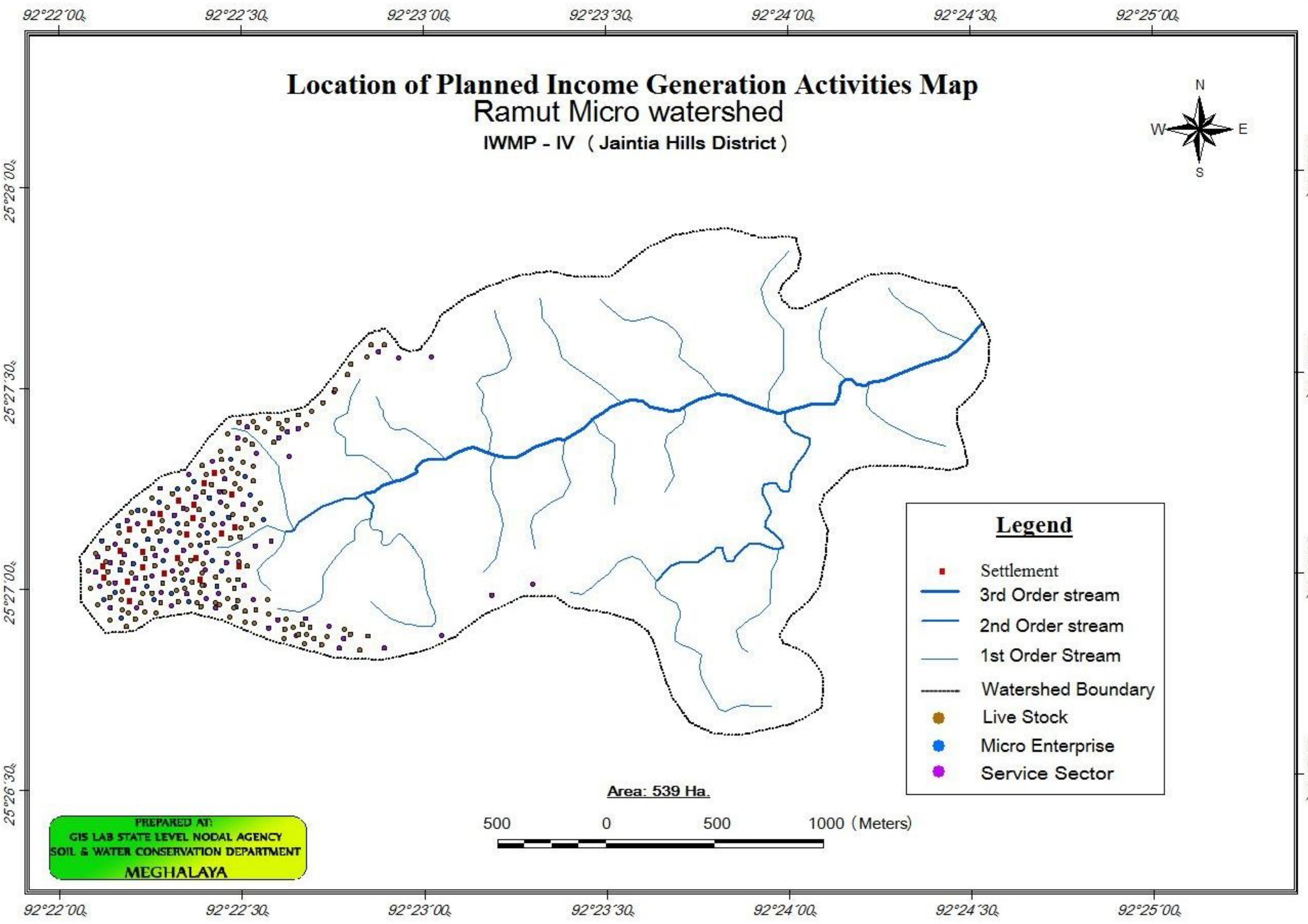


Location of Entry Point Activities Map
Wah Lama Micro Watershed
IWMP - IV (Jaintia Hills District)
92°19'00"
92°19'30"
92°20'00"
92°20'30"
92°21'00"
92°21'30"
92°22'00"
92°22'30"
92°23'00"
25°30'00"
25°29'30"
25°29'00"
25°28'30"
25°28'00"
25°27'30"
N
W
E
S
Legend
Settlement
Boundary
Drinking Well
Washing Platform
Storage Water Tank
Area:1586 ha.
1
0
1
2 (Kilometers)
PREPARED AT:
GIS LAB STATE LEVEL NODAL AGENCY
SOIL & WATER CONSERVATION DEPARTMENT
MEGHALAYA

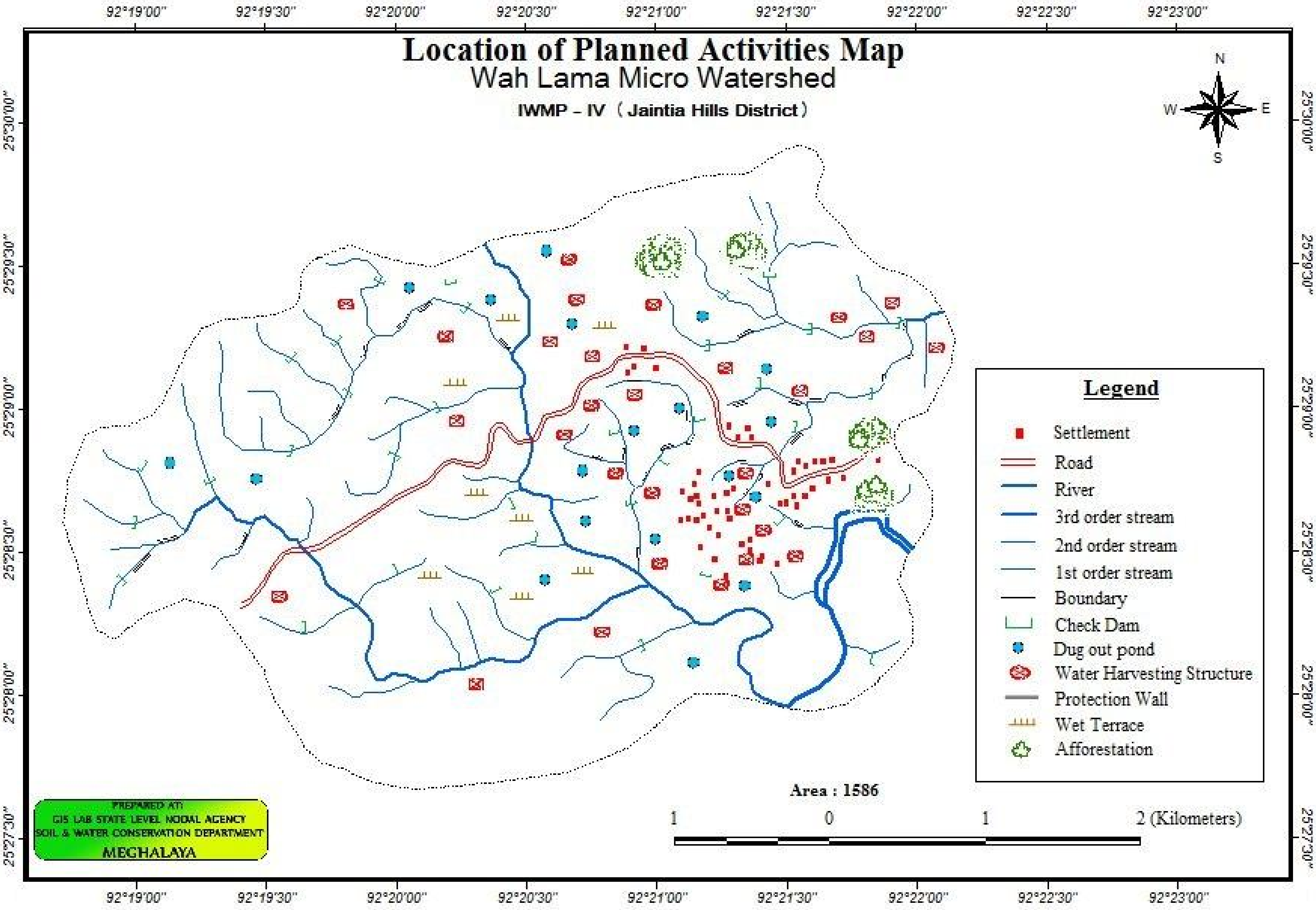

Location of Entry Point Activities Map
Ramut Micro watershed
IWMP - IV (Jaintia Hills District)
N
W
E
S
92°22'00
92°22'30
92°23'00
92°23'30
92°24'00
92°24'30
92°25'00
25°28'00
25°27'30
25°27'00
25°26'30
Legend
3rd Order stream
2nd Order stream
1st Order Stream
Watershed Boundary
Drinking Well
Area: 539 Ha.
500
0
500
1000 (Meters)
PREPARED AT:
GIS LAB STATE LEVEL NODAL AGENCY
SOIL & WATER CONSERVATION DEPARTMENT
MEGHALAYA



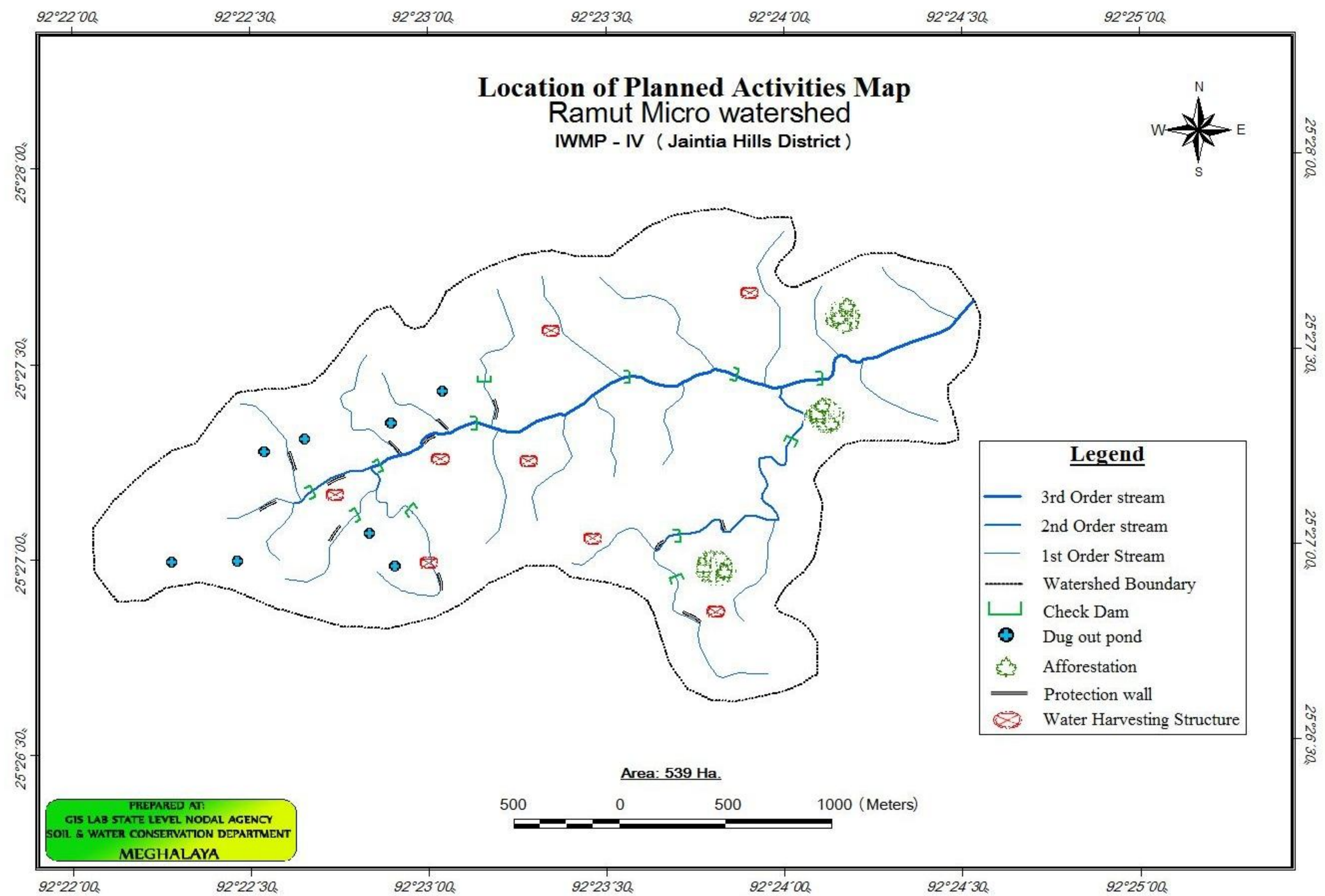
Location of Planned Income Generation Activities
Wah Lama Micro Watershed
IWMP - IV（Jaintia Hills District）
N
W
E
S
Legend
Settlement
Road
Boundary
Micro Enterprise
Service Sector
Live Stock
Area:1586 ha.
1
0
1
2 (Kilometers)
PREPARED AT:
GIS LAB STATE LEVEL NODAL AGENCY
SOIL & WATER CONSERVATION DEPARTMENT
MEGHALAYA
92°19'00"
92°19'30"
92°20'00"
92°20'30"
92°21'00"
92°21'30"
92°22'00"
92°22'30"
92°23'00"
25°30'0.0"
25°29'30"
25°29'00"
25°28'30"
25°28'00"
25°27'30"

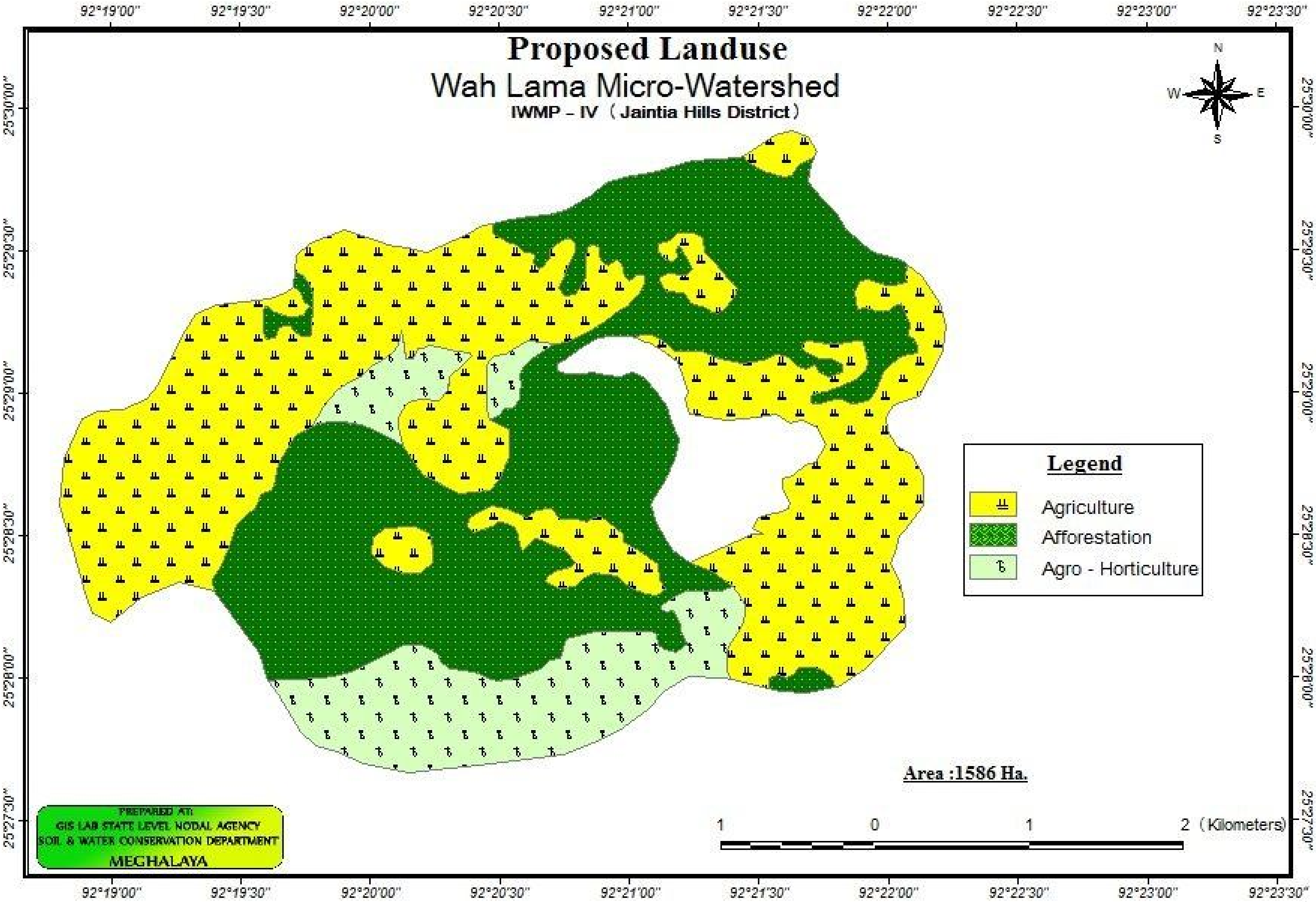


Location of Planned Income Generation Activities Map
Ramut Micro watershed
IWMP - IV (Jaintia Hills District)
N
W
E
S
Legend
Settlement
3rd Order stream
2nd Order stream
1st Order Stream
Watershed Boundary
Live Stock
Micro Enterprise
Service Sector
Area: 539 Ha.
500
0
500
1000 (Meters)
PREPARED AT:
GIS LAB STATE LEVEL NODAL AGENCY
SOIL & WATER CONSERVATION DEPARTMENT
MEGHALAYA
92°22´00"
92°22´30"
92°23´00"
92°23´30"
92°24´00"
92°24´30"
92°25´00"
25°28´00"
25°27´30"
25°27´00"
25°26´30"

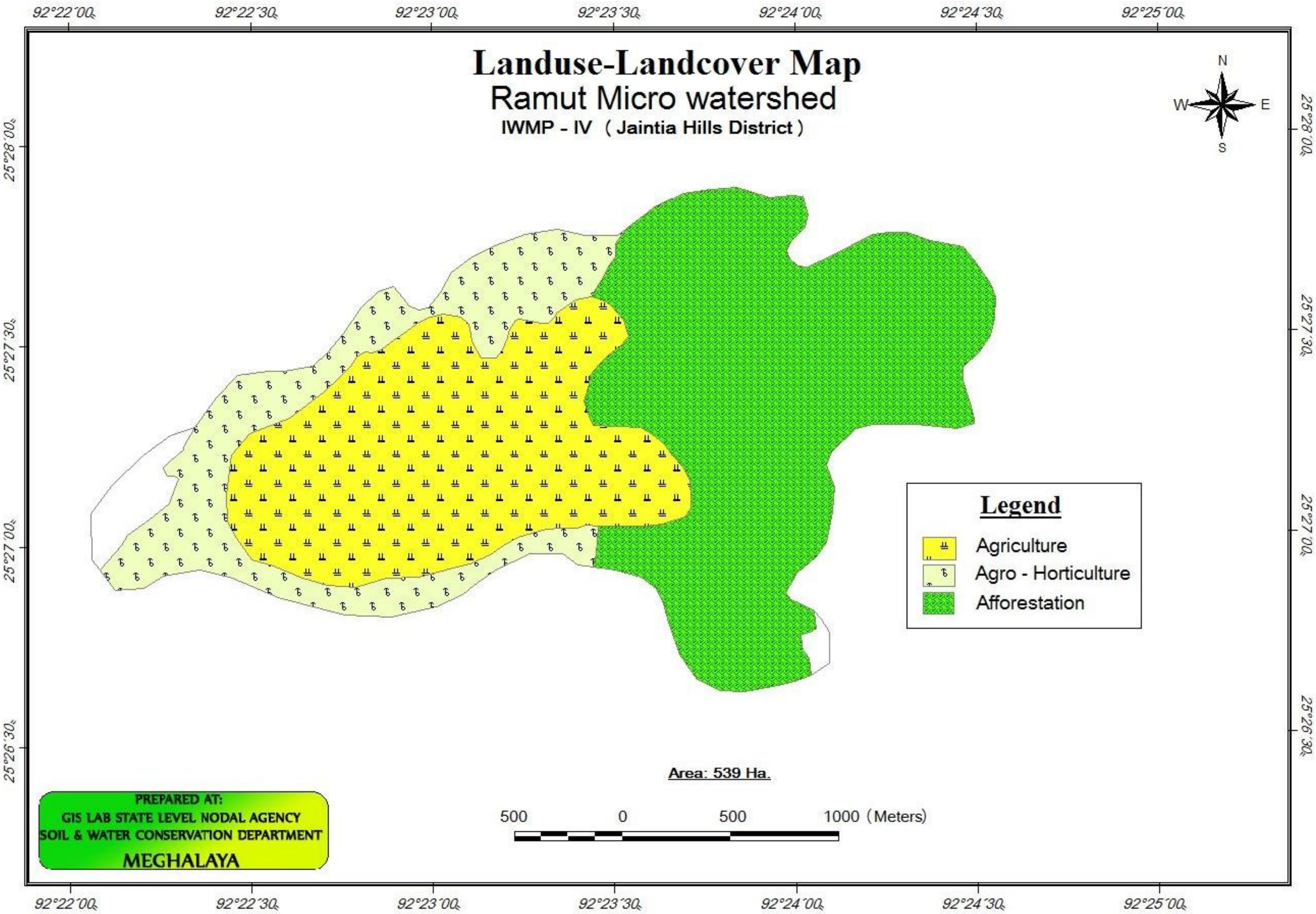


Location of Planned Activities Map
Wah Lama Micro Watershed
IWMP - IV (Jaintia Hills District)
N
W
E
S
92°19'00"
92°19'30"
92°20'00"
92°20'30"
92°21'00"
92°21'30"
92°22'00"
92°22'30"
92°23'00"
25°30'00"
25°29'30"
25°29'00"
25°28'30"
25°28'00"
25°27'30"
Legend
Settlement
Road
River
3rd order stream
2nd order stream
1st order stream
Boundary
Check Dam
Dug out pond
Water Harvesting Structure
Protection Wall
Wet Terrace
Afforestation
Area : 1586
1
0
1
2 (Kilometers)
PREPARED AT:
GIS LAB STATE LEVEL NODAL AGENCY
SOIL & WATER CONSERVATION DEPARTMENT
MEGHALAYA


Location of Planned Activities Map
Ramut Micro watershed
IWMP - IV (Jaintia Hills District)
N
W
E
S
92°22´00
92°22´30
92°23´00
92°23´30
92°24´00
92°24´30
92°25´00
25°28´00
25°27´30
25°27´00
25°26´30
Legend
3rd Order stream
2nd Order stream
1st Order Stream
Watershed Boundary
Check Dam
Dug out pond
Afforestation
Protection wall
Water Harvesting Structure
Area: 539 Ha.
500
0
500
1000 (Meters)
PREPARED AT:
GIS LAB STATE LEVEL NODAL AGENCY
SOIL & WATER CONSERVATION DEPARTMENT
MEGHALAYA



Proposed Landuse
Wah Lama Micro-Watershed
IWMP - IV (Jaintia Hills District)
N
W
E
S
Legend
Agriculture
Afforestation
Agro - Horticulture
Area :1586 Ha.
1 0 1 2 (Kilometers)
PREPARED AT:
GIS LAB STATE LEVEL NODAL AGENCY
SOIL & WATER CONSERVATION DEPARTMENT
MEGHALAYA
92°19'00" 92°19'30" 92°20'00" 92°20'30" 92°21'00" 92°21'30" 92°22'00" 92°22'30" 92°23'00" 92°23'30"
25°30'00" 25°29'30" 25°29'00" 25°28'30" 25°28'00" 25°27'30"


92°22´00˝
92°22´30˝
92°23´00˝
92°23´30˝
92°24´00˝
92°24´30˝
92°25´00˝
Landuse-Landcover Map
Ramut Micro watershed
IWMP - IV (Jaintia Hills District)
N
W
E
S
25°28´00˝
25°27´30˝
25°27´00˝
25°26´30˝
Legend
Agriculture
Agro - Horticulture
Afforestation
Area: 539 Ha.
500
0
500
1000 (Meters)
PREPARED AT:
GIS LAB STATE LEVEL NODAL AGENCY
SOIL & WATER CONSERVATION DEPARTMENT
MEGHALAYA

ANNEXURE II

SOCIO-ECONOMIC SURVEY DETAILS

Socio-Economic Profile: Socio- Economic Survey was conducted in all the 2 villages of the project area. A simple proforma was designed to collect information. The project area is in habitat by pnar population who are mainly dependent on agriculture of their livelihood.

Table showing the population, sex, agri-workers and occupation of 2 villages of JH-IWMP-IV (2010-2011)

Sl No.	Villages	No.of family	Total Population	Sex				Agri-workers	Literacy		Occupation
				Male A	Female A	Boys M	Girls M		Male	Female	
1.	Shangpung	869	6006	2962	3044	1481	1595	3468	1097	1254	
2.	Khliehrangnah	268	1722	845	877	587	612	987	812	910	
	Total-	1137	7728	3807	3921	2068	2207	4455	1909	2164	

Socio- Economic Condition:- The Socio Economic set up of the people in the project area is very poor. The average annual income is about Rs. 18,000/-year/ household, since the prime occupation of the people is Agriculture (Mono- agriculture).

ANNEXURE III

COST ESTIMATES

<u>MODEL NORMS PER HECTARE FOR AGRO-HORTICULTURE</u>

<u>WITH CITRUS FRUIT</u>

(INTEGRATED WATERSHED MANAGEMENT PROGRAMME)

(Rate as per P.W.D schedule of rate for Road and bridge 2008-2009)

Spacing - 8mx6.3m
Plant Density - 200 Nos.

A. Preliminary Works:

I. Site clearance 3 man days @Rs.100/-per man day	-	Rs.300.00
II. Pit digging (pit size 0.45mx0.45mx0.45m) 200 Nos. @Rs.5/-each	-	Rs.1,000.00
	TOTAL =	Rs.1,300.00

B. First year planting:

I. Cost of planting materials 200Nos. @Rs.10/-each	-	Rs.2,000.00
II. Cost of planting 200 Nos. @Rs.3/-each	-	Rs. 600.00
III. Weeding two times 20 man days @Rs.100/- per man day.	-	Rs.2,000.00
	TOTAL =	Rs. 4,600.00

C. Second year planting:

I. Refilling vacancy (10%)	-	Rs. 360.00
II. Weeding two times 20 mandays @Rs.100/-per man day	–	Rs.2,000.00
III. Plant protection measures including cost of chemical	-	Rs. 340.00
	TOTAL =	Rs.2,700.00

Grand Total A+B+C = Rs.1300.00+Rs.4600.00+Rs.2700.00 = Rs.8,600.00

(Rupees eight thousand six hundred) only.

<u>MODEL NORMS PER HECTARE FOR AGRO-HORTICULTURE WITH TEMPERATE FRUIT</u>

<u>(INTEGRATED WATERSHED MANAGEMENT PROGRAMME)</u>

(Rate as per PWD schedule of rate for road And bridge 2008-09)

…….

Spacing – 8m x 7.8m
Plant Density – 160 Nos.

A. Preliminary works:

I. Site clearance
3 man days @Rs.100/- man day - Rs.300.00

II. Pit digging (Pit size 0.45mx0.45mx0.45m)
160Nos. @Rs.5/-each - Rs.800.00

TOTAL = Rs.1,100.00

B. First year planting:

I. Cost of planting materials 160Nos.
@Rs.15/-each - Rs.2,400.00

II. Cost of planting 160 Nos. @Rs.3/- each - Rs. 480.00

III. Weeding two times 20 mandays
@Rs.100/-per manday - Rs.2,000.00

TOTAL: Rs.4,880.00

C. Second year planting:

I. Refilling vacancy (10%) - Rs. 370.00

II. Weeding two times 20 mandays
@Rs.100/-per manday - Rs.2,000.00

TOTAL = Rs.2,370.00

Grand Total A+B+C = Rs.1100.00+Rs.4880.00+Rs.2370.00 = Rs.8,350.00

(Rupees eight thousand three hundred fifty) only.

MODEL NORMS PER HECTARE FOR AFFORESTATION WITH PINE/NON-PINE
(INTEGRATED WATERSHED MANAGEMENT PROGRAMME)

(Rate as per P.W.D. schedule of rate for Road and Bridge 2008-09)

……..

Spacing 6m x 5.5m

Plant density – 300Nos.

A. Preliminary works:

I. Jungle clearance etc., 5 man days
@Rs.100/-per man day - Rs.500.00

II. Pit digging (Pit size 0.30mx0.30mx0.30m)
300Nos. @Rs.4/-each - Rs.1,200.00

TOTAL = Rs.1,700.00

B. First year planting:

I. Cost of planting materials 300Nos.
@Rs.8/-each - Rs.2,400.00

II. Cost of planting 300 Nos. @Rs.2/-each - Rs. 600.00

III. Weeding two times 20 man days
@Rs.100/-per man day - Rs.2,000.00

IV. Fire protection measures 5 man days
@Rs.100/-per man day - Rs. 500.00

TOTAL: Rs.5,500.00

C. Second year planting:

I. Vacancy refilling (10%) - Rs. 400.00

II. Weeding two times 20 mandays
@Rs.100/-per man day - Rs. 2,000.00

III. Fire protection measures 5 man days
@Rs.100/-per manday - Rs. 500.00

TOTAL = Rs.2,900.00

Grand Total A+B+C = Rs.1700.00+Rs.5500.00+Rs.2900.00 = Rs.10,100.00

(Rupees ten thousand one hundred) only.

COST NORMS FOR EARTHEN PERIPHERAL BUND WITH LIVE VEGETATION PER METRE
(INTEGRATED WATERSHED MANAGEMENT PROGRAMME)

(Rate as per PWD schedule of rate for Road and Bridge 2008-2009)

....

A. PHERIPHERAL BUNDS SPECIFICATION & COSTS

Top width = 1.0m

Bottom width = 1.2m

Height = 1.0m

1/3(a) Earth work in excavation etc in ordinary soil, etc

$1.0\text{m} \times \frac{1.0+1.2}{2}\text{m} \times 1.0\text{m} = 1.10\text{m}^3$ @Rs.39.00/-m^3 ..... Rs. 43.00

2. Supplying and planting of live hedges on toe of bunds with local shrubs/cutting, etc. per Running metre in L.S .... Rs. 7.00

TOTAL = Rs. 50.00

(Rupees Fifty) only.

COST NORMS FOR EARTHEN CONTOUR BUND
(INTEGRATED WATERSHED MANAGEMENT PROGRAMME)

(Rate as per PWD schedule of rate for Road and Bridge 2008-2009)

…….

A. CONTOUR BUNDS SPECIFICATION & COSTS

Top width = 0.5m

Bottom width = 1.0m

Height = 0.77m

Spacing = 20 m

Total Length = 5 x 100 = 500m

1/3(a) Earth work in excavation etc in ordinary soil, etc

500mx $\frac{0.5+1.0}{2}$ mx0.77m = 288.5m³ @Rs.26.00/-m³ ….. Rs. 7,500.00

TOTAL Rs. 7,500.00

(Rupees Seven thousand five hundred) only.

COST NORMS FOR IMPROVEMENT OF EXISTING PADDY FIELD
(INTEGRATED WATERSHED MANAGEMENT PROGRAMME)

(Rate as per PWD schedule of rate for Road and Bridge 2008-2009)

…….

A. MARGINAL BUNDS

$50 \text{ x } \frac{0.40+0.70}{2} \text{ x } 0.60 = 16.5 \text{ m}^3$

B. SHOULDER BUND

1/3(a) Earth work in excavation etc., in ordinary soil.

$10\text{Nos. x } 50\text{x } \frac{0.50+0.30}{2} \text{ x } 0.50 = 100.00 \text{ m}^3$

Land leveling L.S = 50.00 m³

166.5 m³

@Rs.26.00/-per m³ …. Rs.4,329.00

TOTAL:Rs.4,329.00

Say Rs.4,300.00

(Rupees Four thousand three hundred) only.

<u>COST NORMS FOR LOOSE BUOLDER BUNDS (IWMP)</u>

(Rate as per PWD schedule of rate for Road & Bridge 2008-2009)

....

A. SPECIFICATIONS & COSTS OF LOOSE BOULDER BUNDS

Top width = 0.4 m

Bottom width = 1.0 m

Height = 0.9 m

Length = 10 m

1/3.11 Providing dry stone masonry walls etc.

$10\text{mx}\frac{0.4+1.0}{2}$ m x 0.90 = 6.30m³ @Rs.1,191/-m³ = Rs.7,500.00

TOTAL Rs.7,500.00

(Rupees Seven thousand five hundred) only.

COST NORMS FOR RUN-OFF DISPOSAL CHANNEL
(INTEGRATED WATERSHED MANAGEMENT PROGRAMME)

(Rate as per P.W.D. schedule of rate for Road & Bridge 2008-2009)

Specification – Top width - 1.00m
Bottom width - 0.70m
Depth - 1.2 m

1/3(a) Earthwork in excavation etc., in ordinary soil.

$1\text{m} \times \frac{1.00 + 0.7}{2} \times 1.2\text{m} = 1.02\text{m}^3$ @Rs.26.00/-per m^3 .... Rs. 26.52

Total = Rs. 26.52

Say Rs.26.00

In words (Rupees twenty six) only.

COST NORMS FOR HALF MOON TERRACES (IWMP)

(Rate as per P.W.D. schedule of rate for Road & Bridge 2008-2009)

.....

A. SPECIFICATIONS & COSTS OF BOX/HALF MOON TERRACES

Terrace width	=	1.2 m
Terrace Height	=	1.2 m
Terrace Length	=	1.2 m
Spacing of Boxes	=	6m x 5m
No. of Box/Hectare	=	334 Nos.

1/3(a) Earthwork in excavation etc., in ordinary soil, etc.

334Nos.x½x1.2x1.2x1.2 = 288.50m³ @Rs.26.00/m³ = Rs.7,500.00

TOTAL = Rs.7,500.00

(Rupees seven thousand five hundred) only.

MODEL NORMS PER HECTARE FOR IMPROVEMENT OF DEGRADED FOREST
(INTEGRATED WATERSHED MANAGEMENT PROGRAMME)

(Rate as per P.W.D. schedule of rate for Road & Bridge 2008-2009)

....

A. Preliminary works:

I. Site clearance 3 mandays @Rs.100/-per man day	……	Rs.300.00
II. Pit digging (Pit size 0.30mx0.30mx0.30m) 100 Nos. @Rs.4/-each	……	Rs.400.00
	TOTAL =	Rs.700.00

B. First year Planting:

I. Cost of planting materials 100Nos. @Rs.8/-each	…………	Rs.800.00
II. Cost of planting 100Nos. @Rs.2/-each	…………	Rs.200.00
III. Round weeding around the plant four times 5 man days @Rs.100/-per man day.	…………	Rs.500.00
IV. Fire protection measures 4 man days @Rs.100/-per man day	………	Rs.400.00
	TOTAL =	Rs.1,900.00

C. Second year planting:

I. Refilling vacancy (10%)	………….	Rs.100.00
II. Round weeding around the plant four times 5 man days @Rs.100/-per man day	…………..…	Rs.500.00
III. Fire protection measures 4 man days @Rs.100/-per man day	………….	Rs.400.00
	TOTAL =	Rs.1,000.00

Grant Total A+B+C = Rs.700.00+Rs.1900.00+Rs.1000.00 = Rs.3,600.00

(Rupees three thousand six hundred) only.

MODEL NORMS PER HECTARE OF STRIP PLANTATION TWO ROWS ALONG THE BOUNDARY WITH FAST GROWING SPECIES
(INTEGRATED WATERSHED MANAGEMENT PROGRAMME)

(Rate as per PWD schedule of rate for Road & Bridge 2008-2009)

Spacing 6m from plant to plant
2.5m from row to row

A. Preliminary works:

I. Site clearance 2 man days @Rs.100/-per man day	………	Rs.200.00
II. Pit digging (Pit size 0.30mx0.30mx0.30m) 134 Nos. @Rs.4/-each	……	Rs.536.00
	TOTAL =	Rs.736.00

B. First year Planting:

I. Cost of planting materials 134Nos. @Rs.8/-each	…………	Rs.1072.00
II. Cost of planting 134Nos. @Rs.2/-each	…………	Rs.268.00
III. Round weeding around the plant two times 6 man days @Rs.100/-per man day.	…………	Rs.600.00
IV. Fire protection measures 4 man days @Rs.100/-per man day	…………	Rs.400.00
	TOTAL:	Rs.2,340.00

C. Second year planting:

I. Refilling vacancy (10%)	…………..	Rs.190.00
II. Round weeding around the plant two times 6 man days @Rs.100/-per man day	………….…	Rs.600.00
III. Fire protection measures 4 man days @Rs.100/-per man day	…………..	Rs.400.00
	TOTAL =	Rs.1,190.00

Grant Total A+B+C = Rs.736.00+Rs.2340.00+Rs.1190.00 = Rs.4,266.00

(Rupees four thousand two hundred sixty six) only.

ESTIMATE FOR CONSTRUCTION OF FARM POND

(The Rate base as per M.P.W.D schedule of rate for Road & Bridge and E&D works 2008-2009)

1/3(d) Earth work in excavation to the proper including light dressing, providing cambering and superlative as directed and removal of spoils up to 30m lead and all lift.
Soft or laminated rock or medium shale.

$$V = \frac{1.20}{6}\left\{20 \times 10 + 18.8 \times 8.8 + 4\,(19.4 \times 9.40)\right\}$$

$V = 219.00m^3$ @Rs.63.00/-m^3 ……… Rs.13,795.00

2/14 (ii) Cutting road side drain including dressing, grading and removal of spoils up to 15.0m complete as directed.
In ordinary soil, comprising of black cotton soil, Green vegetation soil, red soil, loamy soil, clay, soft shale and loose moorum etc.

60Rm @Rs.38.00/-Rm ……….. Rs.2,280.00

TOTAL: Rs.16,075.00

Say Rs.16,000.00

In words (Rupees sixteen thousand) only.

MODEL ESTIMATE FOR CONSTRUCTION OF C.C CHECK DAM

(The rate based as per PWD Schedule of rate for Reads, bridges and E&D Works 2008 – 2009)

Name of Beneficiary –
Name of Location/ Village –

1/5 (a)	Earthwork in excavation for abutment and wing walls of bridges and culverts, up to the desired etc complete. $1 \times 5.80 \times 1.00 \times 0.50 =$ 2.90 m^3 $1 \times 4.85 \times 1.50 \times 0.30 =$ 2.18m^3 5.08m^3 @ Rs. 124.00/m^3	= Rs. 629.92
2/26	providing cement concrete work in prop 1:4:8 with hard broken stone aggregates 40 mm etc complete. $1 \times 5.80 \times 1.00 \times 0.10 = 0.58m^3$ @ Rs. 2136.00/m^3	= Rs. 1236.88
3/41(a)	Providing shuttering with dressed planks not less than 25mm thick etc complete. $1 \times 5.80 \times 1.10 = 6.38m^2$ $1 \times 5.80 \times 1.20 = 6.96m^2$ $2 \times 3.50 \times 0.40 = 2.80m^2$ $1 \times 7.85 \times 0.05 = 0.39m^2$ 16.53m^2 @ Rs. 295.00/m^2	= Rs. 7876.35
4/28	Providing cement concrete work in abutments, wing walls etc complete $1 \times 5.80 \times 1.00 \times 0.40 = 2.32m^2$ $1 \times 5.80 \times \frac{1.00 + 0.50}{2} \times 1.10 = 4.78m^3$ $2 \times 1.50 \times 0.50 \times 0.40 = 0.60m^3$ $1 \times 4.85 \times 1.50 \times 0.10 = 0.73m^3$ $= 8.43m^3$ @ Rs. 2344.00/m^3	= Rs. 19759.92

5/24	Providing stone pitching with one man size boulder not less than 25cm× 30cm etc complete	
	$1 \times 4.85 \times 1.50 \times 0.25 = 1.82m^3$	
	@ Rs. 512.00/m^3	=Rs. 931.84
6/27	Providing 12mm thick cement plastering including cleaning surface etc complete	
	$1 \times 5.80 \times 1.10 = 6.38m^2$	
	$1 \times 5.80 \times 1.20 = 6.96m^2$	
	$2 \times 3.50 \times 0.40 = 2.80m^2$	
	$1 \times 5.80 \times 0.50 = 2.90m^2$	
	$1 \times 4.85 \times 1.50 = 7.28m^2$	
	$= 26.32m^2$	
	@ Rs. 93.00/m^2	= Rs. 2447.76
	TOTAL	= Rs. 29884.67

Say Rs. 29,900.00

(Rupees twenty Nine thousand nine hundred) only

MODEL ESTIMATE FOR CONSTRUCTION OF WATER HARVESTING STRUCTURE

(The rate based as per P.W.D Schedule of rates for Roads, Bridges and E & D Works 2008 - 2009)

Name of Beneficiary -

Name of Location/Village -

1/5 (a) Earthwork in excavation for abutment and wing walls of bridges and culverts, up to the desired founding level including dewatering, bailing out of water and protecting the foundation sides by adequate shoring, scaffolding and including leveling the foundation longitudinally and transversely etc.

1 x 6.00 x 1.00 x 0.50	=	3.00 m^3	
1 x 1.90 x 1.50 x 0.35	=	0.99 m^3	
1 x 1.90 x 0.20 x 0.30	=	0.11 m^3	
		4.10 m^3	
		@ Rs.124.00/m^3	Rs. 508.40

2/26 Providing cement concrete work in proportion 1:4:8 with hard broken stone aggregates 40mm down graded, including necessary carriage of stone and sand within a distance of 200m and curing, complete as directed.

1 x 6.00 x 1.00 x 0.10	=	0.60 m^3	
		@ Rs.2136.00/m^3	Rs. 1281.60

3/41 Providing shuttering with dressed planks not less than 25mm thick properly joined including battens, props to the proper level and removing the same after the concrete hardened.

1 x 6.00 x 1.10	=	6.60 m^2	
1 x 6.00 x 1.20	=	7.20 m^2	
2 x 5.00 x 0.40	=	4.00 m^2	
4 x 1.70 x 0.30	=	2.40 m^2	
4 x 1.20 x 0.30	=	1.44 m^2	
4 x 0.40 x 0.30	=	0.48 m^2	
2 x 1.20 x 0.20	=	0.48 m^2	
2 x 0.40 x 0.20	=	0.16 m^2	
2 x 1.90 x 0.20	=	0.76 m^2	
		23.16 m^2	
		@ Rs.295.00/m^2	Rs. 6832.20

4/28 Providing cement concrete work in abutments, wing walls and return walls in proportion 1:3:6 with hard broken stone aggregates 40mm down graded including necessary carriage of stone and sand within a distance of 200m etc.

1 x 6.00 x 1.00 x 0.40	=	2.40 m^3	
$1 \times 6.00 \times \frac{1.00+0.50}{2} \times 1.10$	=	4.95 m^3	
2 x 2.25 x 0.50 x 0.40	=	0.90 m^3	
2 x 1.70 x 0.50 x 0.20	=	0.34 m^3	
2 x 1.20 x 0.30 x 0.20	=	0.14 m^3	
2 x 0.40 x 0.30 x 0.20	=	0.05 m^3	
1 x 1.90 x 0.50 x 0.20	=	0.19 m^3	
1 x 1.90 x 1.50 x 0.10	=	0.28 m^3	
		9.25 m^3	
		@ Rs.2344.00/m^3	Rs.21682.00

5/24 Providing stone pitching with one man size boulders not less than 25cm X 25cm X 30cm long including filling the interstices with spoils and carriage of stone within a distance of 200m complete as directed.

1 x 1.90 x 1.50 x 0.25	=	0.71 m^3	
		@ Rs.512.00/m^3	Rs. 363.52

6/27 Providing 12mm thick cement plastering including cleaning surface, curing and carriage of sand within 200m complete.

1 x 6.00 x 1.10	=	6.60 m^2	
1 x 6.00 x 1.20	=	7.20 m^2	
2 x 5.00 x 0.40	=	4.00 m^2	
4 x 1.70 x 0.30	=	2.04 m^2	
4 x 1.20 x 0.30	=	1.44 m^2	
4 x 0.40 x 0.30	=	0.48 m^2	
2 x 1.20 x 0.20	=	0.48 m^2	
2 x 0.40 x 0.20	=	0.16 m^2	
2 x 1.90 x 0.20	=	0.76 m^2	
		23.16 m^2	
		@ Rs.93.00/m^2	Rs. 2153.88
		TOTAL:	Rs.32821.60

Say Rs.32,800.00

(Rupees Thirty two thousand eight hundred) only.

SCHEME FOR SETTING UP OF 50 NOS KUROILERS (LOW INPUT BIRD)

C. CAPITAL EXPENDITURE

1. Cost of construction of shed of 25 sq. ft. covered room @ Rs. 120/sq. ft and 100 sq. ft. range area @ 60/sq. ft. — Rs.9000.00
2. Cost of equipments like Feeds, drinking water, etc. (L.S) — Rs. 775.00
3. Misc. expenditure including transportation cost — Rs. 800.00

TOTAL Rs. 10,575.00

B. RECURRING EXPENDITURE

1. Cost of 50 nos. Kuroilers 8 weeks old @ Rs. 64/bird — Rs. 3200.00
2. Cost of feed:-
   a) Grower mash for 1 month (50x90gmsx60days=135kgs)
      i) 70% kitchen waste @ Rs. 3/Kg (95 Kg x 3 = Rs. 285) — Rs. 285.00
      ii) 30% Concentrated feed @ Rs. 17.50/Kg (40Kgx17.50=Rs.700) — Rs. 700.00
   b) Grower mash for 2 month (50x100gmsx30days=300kgs)
      i) 70% kitchen waste @ Rs. 3/Kg (210 Kg x 3 = Rs. 630) — Rs. 630.00
      ii) 30% Concentrated feed @ Rs. 17.50/Kg (90Kgx17.50=Rs.1575) — Rs.1575.00
   c) Layer mash to be supplied for 5 months and remaining period of feeding for laying will be borne by the beneficiaries (50x120gmsx150days=900kgs)
      i) 70% kitchen waste @ Rs. 3/Kg (630 Kg x 3 = Rs. 1890) — Rs. 1890.00
      ii) 30% Concentrated feed @ Rs. 17.50/Kg (270Kgx17.50=Rs.4725) — Rs.4725.00
3. Cost of medicines — Rs.1000.00
4. Cost of Insurance @3% par bird. The bird will be insured at the age of 6-17 months when the bird attained 2-2.5kgs live weight @ Rs. 14/kg — Rs. 420.00

TOTAL Rs. 14,425.00

Total Expenditure A + B
Rs. 10,575 + Rs. 14,425
Rs. 25,000.00 (Rupees Twenty five thousand) only

INCOME:-

1. By sale of 23 nos. of Cockerels @ Rs. 140/Weighing 2.5-3kgs/each — Rs. 9660.00
2. By Sale of 4238 nos. of Eggs @ Rs. 5/egg — Rs.21,190.00
3. By sale Culled hen weighing 1.8-2 kgs Rs. 140/kg — Rs. 6440.00
4. Sale of manure, gunny bags, etc (L.S) — Rs. 500.00

TOTAL Rs.37, 790.00
(Rupees thirty seven thousand seven hundred ninety only)

PARAMETERS:-

Weighing of cockerels	- 2.5 – 3 kg
Weighing of Culling hen	- 1.8 – 2 kg
Breakage %	- 3%
Rate of mortality	– Grower -5 % Layer – 1%
Laying capacity	– 180 – 200/ egg/bird

Dr. J. LYNG

SCHEME FOR COMMERCIAL PIG BREEDING

(Unit Size - 1 no. Sow and 1 No. Boar)

A. Non-Recurring Expenditure:-

1. Construction of pig sty with an area of 120 sq. ft for accommodation of 2 nos. Pigs @ Rs. 65/ sq. ft. with locally available material — Rs. 7800.00
2. Cost of Breeding Stock:-
   a) Cost of 1 no. Sow of 4-5 months age @ Rs. 2200/- — Rs. 2200.00
   b) Cost of 1 no. Boar of 5-6 months age @ 2700/- — Rs. 2700.00
3. Misc. Expenditure like equipments transportation charge — Rs. 1206.00
4. Annual insurance cover for 2 nos. breeding stock @ 6 per adult animal — Rs. 294.00

TOTAL Rs. 14200.00

B. RECURRING EXPENDITURE:-

1. Cost of feed:-
   a) 2.5 Kgs. for 1 no. Sow for 364 days = 910 kgs
      i) 70% kitchen waste @ Rs. 2/Kg (637 Kg x 2 = Rs. 1274) — Rs. 1274.00
      ii) 30% Concentrated feed @ Rs. 12/ Kg (273 Kg x 12 = Rs. 3275) — Rs. 3275.00
   b) 2 Kgs. for 1 no. Boar for 364 days = 728 kgs
      iii) 70% kitchen waste @ Rs. 21/Kg (509 Kg x 2 = Rs. 1018) — Rs. 1018.00
      iv) 30% Concentrated feed @ Rs. 12/ Kg (219 Kg x 12 = Rs. 2628) — Rs. 2628.00
   c) For weaners 0.2 kg for 16 nos. for 60 days (0.2 kgx 16x 60x12 = Rs. 2304) — Rs. 2304.00
2. Health coverage (L.S) — Rs. 300.00

TOTAL Rs.10, 800.00

Total Project Cost A + B
Rs. 14,200+ Rs. 10,800
Rs. 25,000.00 (Rupees Twenty five thousand) only

INCOME:-

3) By sale of 16 nos. of piglets @ Rs. 2000/ each — Rs. 32,000.00
4) By sale of manure and gunny bags (L.S) — Rs. 3,000.00

TOTAL Rs. 35,000.00

(Rupees Thirty five thousand only)

PARAMETERS:-

Numbers of farrowing per sow/ year	-	2 times
Numbers of piglets per sow/ farrowing	-	2 times
Mortality rate	-	10 %
Percentage of conc. Feed of Total feed	-	30%
Percentage of Kitchen waste of Total feed	-	70%

J. LYNO
& Vety. Offr.
...wsyuram C&RD Block

ANNEXURE IV

MoA, SUB-COMMITTEE DETAILS ETC

ANNEXURE – I

Certified that the villages Shangpung and Khliehrangnah falls under JH-IWMP – IV under Laskein C & R D Block and Possesses lands more than 2000 Hectares which may be taken up for treatment with various developmental Scheme under the Integrated Watershed Management Programme (IWMP) by the Soil & Water Conservation Department.

Rangbah Shnong
Khliehmushut Shangpung

Rangbah Shnong
Shangpung Moosyiem

Headman
Shangpung Pohshnong

Headman
Khliehrangnah Shangpung

GENERAL SECRETARY
DORBAR SHNONG
Khliehmushut Shangpung

Secy Dorbar Shnong
Shangpung, Moosyiem
Shangpung

General Secretary
Dorbar Shnong Shangpung
Pohshnong.

General Secretary
Dorbar Shnong Khlieh..
Shangpung

Rangbah Shnong
Shangpung Mission
Shangpung

General Secretary
Dorbar Shnong
Shangpung Mission

Rangbah Shnong
Dorbar Shnong
Shangpung Moolibang.

Gen. Secretary
Dorbar Shnong
Shangpung Moolibang.

<u>ANNEXURE – II.</u>

This is to certify that JH – IWMP- IV has been selected based on the following criteria:-

(a) That the watershed has a population of Schedules Tribes only.

(b) That it has a preponderance of Wastelands and Degraded Lands.

(c) That it had a preponderance of Common Lands.

(d) That it has acute shortage of drinking water.

(e) That the people of the Watersheds had assured of their full participation during the implementation of the programme as well as for the operation and maintenance of the assets created after the handing over of the land.

(f) That the common profit will be shared amongst all with in the villages including the weaker section, women and the landless

Rangbah Shnong
Khliehmushut Shangpung

Headman
Shangpung Pohshnong

General Secretary
Dorbar Shnong Khliehrangnah
Shangpung

General Secretary
Dorbar Shnong Shangpung
Pohshnong.

Rangbah Shnong
Shangpung Mission
Shangpung

General Secretary
Dorbar Shnong
Shangpung Mission

Rangbah Shnong
Dorbar Shnong
Shangpung Moolibang.

Genl. Secretary
Dorbar Shnong
Shangpung Moolibang.

Headman
Khliehrangnah Shangpung

RESOLUTIONS OF THE VILLAGE COMMITTEE/DORBAR SHNONG

A general meeting of the Villagers of Villages Shangpung and Khliehrangnah was held on the 26th Nov.2010, and the following resolutions were adopted unanimously by the Committee.

That the Secretary of the Watershed Committee will be from the Office of the Soil & Water Conservation Department, Jaintia Hills Division (T) Jowai and the Chairman of the Watershed Committee will be from the member of the Villagers.

That we will extend all our possible help to the Soil & Water Conservation Department while implementing the Integrated Watershed Management Programme (IWMP) in the degraded wasteland areas of our poor Scheduled Tribes people.

That we will help the survey team, Officers of the State/Central Government in case they come to our villages.

That the villages have got land more than 2000.00 Hectares to be treated under various Soil & Water Conservation Works.

That the villages will take over all assets created by the department after the handing of the land.

That the common profit will be shared amongst all with in the villages including the weakers section, women and the landless.

Rangbah Shnong
Khliehmushut Shangpung

Headman
Shangpung Pohshnong

General Secretary
Dorbar Shnong Khliehrangnah
Shangpung

DORBAR SHNONG
Khliehmushut Shangpung

General Secretary
Dorbar Shnong Shangpung
Pohshnong.

Rangbah Shnong
Dorbar Shnong
Shangpung Moolibang.

Rangbah Shnong
Shangpung Mission
Shangpung

General Secretary
Dorbar Shnong
Shangpung Mission

Headman
Khliehrangnah Shangpung

Genl. Secretary
Dorbar Shnong
Shangpung Moolibang.

Office of the Dorbar Shnong **Shangpung** Village

Jaintia Hills,Meghalaya –793150

No Objection Certificate.

This is to certify that the Dorbar Shnong Shangpung Village has no objection to the Soil & Water Conservation Department of Meghalaya to Implement the JH-IWMP-IV Wahlama Micro-Watershed within the Area of Shangpung Village.

Rangbah Shnong
Khliehmushut Shangpung

Rangbah Shnong
Shangpung Moosyiem

Rangbah Shnong
Shangpung Mission
Shangpung

Rangbah Shnong
Dorbar Shnong
Shangpung Moolibang.

GENERAL SECRETARY
DORBAR SHNONG
Khliehmushut Shangpung

Secretary Dorbar Shnong
Shangpung, Moosyiem
Shangpung.

General Secretary
Dorbar Shnong
Shangpung Mission

Genl. Secretary
Dorbar Shnong
Shangpung Moolibang.

Headman
Shangpung Pohshnong

General Secretary
Dorbar Shnong Shangpung
Pohshnong.

Office of the Dorbar Shnong **Khliehrangnah** Village

Jaintia Hills,Meghalaya –793150

No Objection Certificate.

This is to certify that the Dorbar Shnong Khliehrangnah Village has no objection to the Soil & Water Conservation Department of Meghalaya to Implement the JH-IWMP-IV Ramut Micro-Watershed within the Area of Khliehrangnah Village.

Headman
Khliehrangnah Shangpung

General Secretary
Dorbar Shnong Khliehrangnah
Shangpung