DETAILED PROJECT REPORT

1. MIDLLE MYNSAR 2. UMBLO 3. MYNLEP

INTEGRATED WATERSHED MANAGEMENT PROJECT

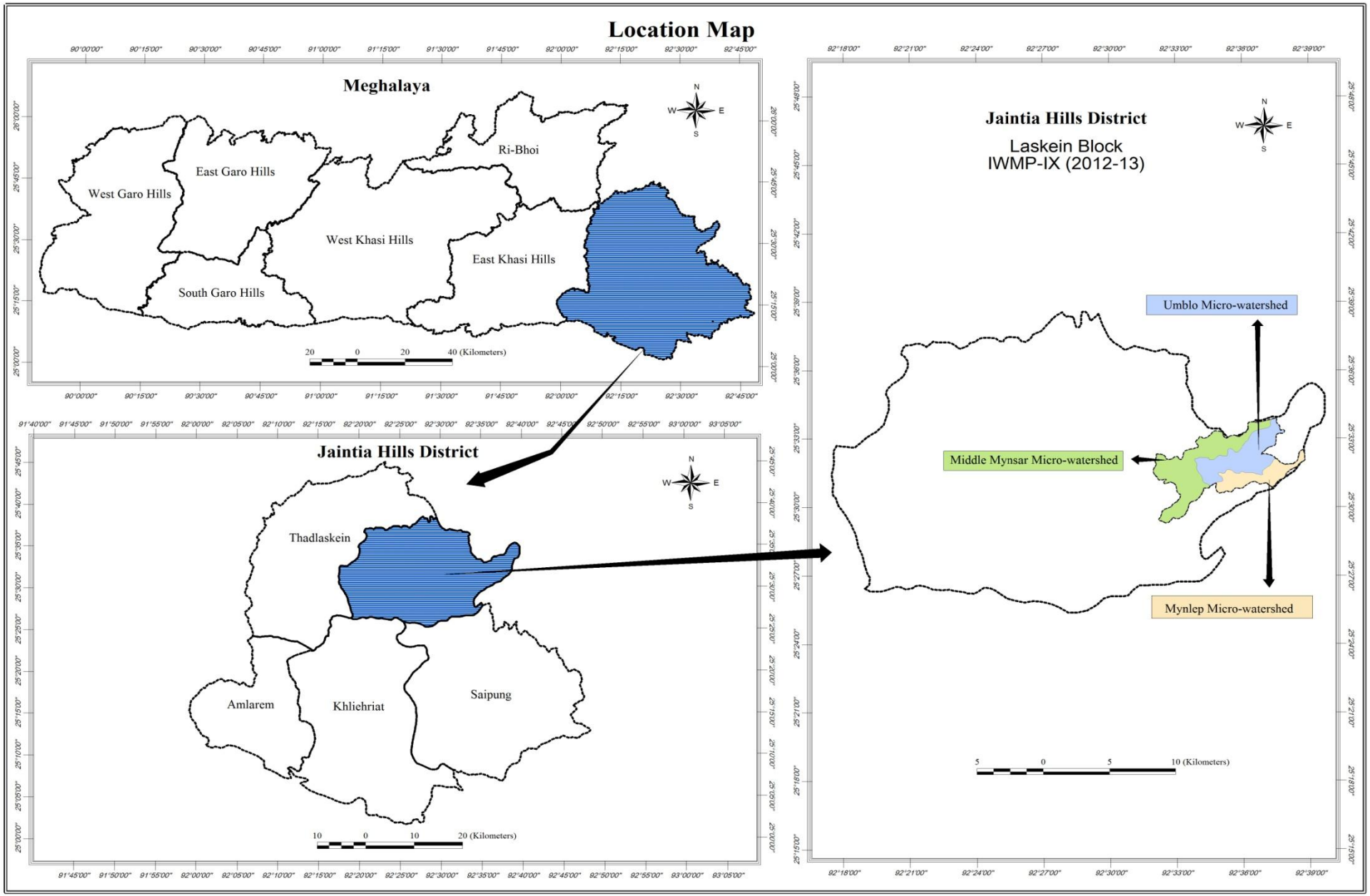
WJH - IWMP – IX

2012-2013

LASKEIN C& RD BLOCK

WEST JAINTIA HILLS DISTRICT

MEGHALAYA


Location Map
Meghalaya
Ri-Bhoi
East Garo Hills
West Garo Hills
West Khasi Hills
East Khasi Hills
South Garo Hills
20 0 20 40 (Kilometers)
Jaintia Hills District
Thadlaskein
Amlarem
Khliehriat
Saipung
10 0 10 20 (Kilometers)
Jaintia Hills District
Laskein Block
IWMP-IX (2012-13)
Umblo Micro-watershed
Middle Mynsar Micro-watershed
Mynlep Micro-watershed
5 0 5 10 (Kilometers)

SUMMARY OF THE PROJECT.

Name of the State :-Meghalaya
Name of the District :- West Jaintia Hills
Name of the C & RD Block :-Laskien
Name of the Project :-WJH – IWMP-IX
Total Geographical Area :-3959 Ha.
Total Treatment Area :- 3020Ha.
Total Project Cost :- 453 Lakhs
Project Duration :- 5 Years
Name of the Micro Watershed:- (i) Middle Mynsar (ii) Umblo (iii)Mynlep
With Name of the Villages :- (i) Umsalait, Thangthring, Iooksi, Iongkasaroo, Tongkiad. (ii) Saphai A, Saphai B. (iii) Rudkupli Iawthymme, Priang, Umdeinling
Project Implementing Agency :- Soil & Water Conservation Territorial Division, Jowai.

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CHAPTER I

INTRODUCTION AND BACKGROUND

INTRODUCTION AND BACKGROUND

1.1 Project Background:

The WJH-IWMP-IX is derived from the C&RD Block (Laskein C&RD Block) which falls in the West Jaintia Hills District. There are 3 Nos of Micro Watershed in cluster and 10 Nos of villages. They are: (i) Middle Mynsar M/W- Umsalait, Thrangthring, Iooksi, Iongkasaroo & Tongkiad village, (ii) Umblo M/W – Saphai A & Saphai B village (iii) Mynlep M/W- Rudkupli Iawthymme, Priang & Umdienling village. The Micro Watershed of Middle Mynsar is drained by Mynsar River, Umblo Watershed is drained by Myntang River and Mynlep Micro Watersheds is drained by Kupli River flowing from West to East.

1.2 Micro Watershed Information:

The micro-watershed code is (1) Middle Mynsar-3B2C4d1h,(2) Umblo-3B2C4c3d,(3) Mynlep-3B2C4c3a as codified by the North East Space Application Centre (NESAC). The total area of the micro-watershed is 3959 Ha with 3020 hectares to be treated under the Integrated Watershed Management Programme (IWMP).

1.3 Need and Scope for Watershed Development:

The micro-watersheds fall 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 banks of enormous size dotted with pine trees individually or in small groups. The ground is generally gentle sloping with slopes varying from 10 percent to 60 percent. The area is mainly drained by Mynsar, Myntang and Kupli River. There is lot of scope for land development, agro-forestry, and 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

BASIC INFORMATION OF THE PROJECT AREA

2.1 Location:

The project area falls within the Laskein C&RD Block of West Jaintia Hills District and is about 50 to 60 km from Jowai the headquarter of West Jaintia Hills District and is spread over 10 villages namely (1) Umsalait, Thangthring, Iooksi, Iongkasaroo, Tongkiad (2) Saphai A & Saphai B (3) Rudkupli Iawthymme, Priang and Umdienling with 3 (three) Nos of Micro-Watershed and is located in the catchment of Myntang, Mynsar and Kupli River, according to the survey of India toposheet No. toposheet No. 83 (C/6), 83 (C/10), 83 (C/11) The micro watershed of (1) Middle Mynsar is is situated between North Latitude 25 ^{0} 29'20" to 25 ^{0} 33'47" and East Longitude 92 ^{0} 32'0" to 92 ^{0} 37'18" (2) Umblo - North Latitude 25 ^{0} 30'57" to 25 ^{0} 33'53" and East Longitude 92 ^{0} 33'49" to 92 ^{0} 37'52" (3) Mynlep- North Latitude 25 ^{0} 30'40" to 25 ^{0} 32'30" and East Longitude 92 ^{0} 34'45" to 92 ^{0} 38'45" .The total area of WJH-IWMP-IX is about 3959 ha, out of which 3020 Ha is proposed for treatment under different Soil & Water Conservation activities. At present the area is connected partly by metalled road and partly by katcha road.

2.2 Physiography:

The area is irregular in shape. The Hills ranges rise to the Maximum altitude of 1020 mts above sea level. The lowest point in the area is situated above the bank of Mynsar, Myntang and Kupli River at an elevation of 639 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 5 percent to 80 percent. It is only near the tributaries with Rivers 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 Mynsar, Myntang and Kupli River. The over all drainage patterns vary from normal to a naturally high system.

Table 2.1: Physiographic Details

Elevation (metres)	Slope Range (%)	Order of watershed Sub/Micro-watershed	Major streams	Topography
639m to 1020m	0% to 80 %	Middle Mynsar	Mynsar	Undulating with modarate to steep sloping
639m to 1020m	0% to 80%	Umblo	Myntang	
639m to 1020m	0% to 80 %	Mynlep	Kupli	

2.3 Drainage: The major stream draining the micro-watershed is the Mynsar, Myntang and Kupli 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 Mynsar, Myntang and Kupli 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	West Jaintia Hills	WJH-IWMP-IX	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				
				Wind erosion		NA		

2.5 Climate: The WJH-IWMP-IX is located in the Hills of Central Thermic Plateau 639 – 1020 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 24.80^0C and minimum of 8.5^0C and humidity is varies between 94.20 and 55.30. Maximum and annual rainfalls 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 639 – 1020m	3959	West Jaintia Hills	WJH-IWMP-IX	Loam to clay Loam	3959	1215.16	Paddy	195
									Maize	52
									Ginger	38
									Turmeric	25

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,Ginger, turmeric, 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	195	20	3900
Maize	52	15	780
Ginger	38	15	570
Turmeric	25	20	500

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 10 villages of the project area. A simple proforma was designed to collect information. The project area is in habit by pnar population who are mainly dependent on agriculture of their livelihood.

Table showing the population, sex, agri-workers and occupation of 10 villages of WJH-IWMP-IX (2012-2013)

Sl No.	Villages	No.of family	Total Population	Sex				Agri-workers	Literacy		Occupation
				Male A	Female A	Boys M	Girls M		Male	Female	
	Umsalait	234	1543	375	338	451	379	516	305	277	
	Thangthring	106	662	146	132	197	187	253	195	187	
	Iooksi	272	1549	372	405	392	380	508	279	264	
	Iongkasaro	84	493	98	111	152	132	198	153	133	
	Tongkiad.	23	111	27	21	29	34	50	2	5	
	Saphai A & Saphai B	429	2759	674	690	683	712	889	511	555	
	Rudkupli Iawthymme,	70	447	81	78	142	146	167	68	19	
	Priang,	139	726	204	217	173	132	297	54	76	
	Umdienling	189	1119	269	263	302	285	396	94	159	
	Total	1396	9409	2246	2255	2521	2387	3274	1661	1675	

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).

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 8 nos of upper primary school; 18 nos of LP Schools and 1 no of High 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 is 1 no Primary Health Centre and no Animal Husbandry Health centre in the project areas.

2.1.4 ***Water Supply****:* Very few villagers have been provided with Drinking water supply 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 Iooksi and Sahsniang. However, the main market where the people sell their produce is at Iaw musiang Jowai the District head quarter.

Table 2.5: Infrastructure Status:

1	2	3		4			
Name of District	**Name of Project**	**Parameters:**		**Status**			
West Jaintia Hills	WJH-IWMP-IX	(i)	No. of villages connected to the main road by an all-weather road.	4			
		(ii)	No. of village provided with electricity	7			
		(iii)	No. of households without access to drinking water	896			
		(iv)	No. of educational institutions: Primary (P)/ Secondary (S)/ Higher Secondary (HS)/ Vocational institution (VI)	(P) 26	(S) 1	(HS) Nil	(VI) Nil
		(v)	No. of village with access to Primary Health Centre	1			
		(vi)	No. of village with access Veterinary Dispensary	Nil			
		(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	6			
		(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	10			
		(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	579
Goat	226
Piggery	758
Poultry	2896
Total	**4459**

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 Land 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**
West Jaintia Hills	WJH-IWMP-IX	(i) Large	Nil	-	-	-	-
		(ii) Small	582	164	-	1060	1060
		(iii) Marginal	814	320	-	1260	1260
		(iv) Landless	-	-	-	-	-
		Sub - Total	1396	484	-	2320	2320

Table 2.5: Common Property Resources in the Project Area:

1	2	3	4				5			
Name of District	**Name of the Projects**	**CPR Particulars**	**Total Area (ha) Area owned/ In possession of**				**Area available for treatment (ha)**			
			Pvt. Person	**Govt. (specify deptt)**	**PRI**	**Any other (community)**	**Pvt. Person**	**Govt. (specify Deptt.)**	**PRI**	**Any other (community)**
West Jaintia Hills	WJH-IWMP-IX	(i) Wasteland/ degraded land	2063 Ha			726 Ha				2460 Ha
		(ii) Pastures								
		(iii) Private Agriculture land	310 Ha				560			
		(iv) Village woodlot								
		(v) Forest	451			211 Ha				
		(vi) Village Ponds/ Tanks								
		(vii) Community Buildings		5 nos		4 Nos				
		(viii) Weekly Markets				Yooksi & Sahsniang				
		(ix) Permanent Markets				Jowai				
		(x) Temples/ Places of worship				9 nos				
		(xi) Others (waterbody, built up)				198 Ha				
		Total	2824Ha			1135 Ha	560 Ha			2460 Ha

2.11 Land use and land cover:

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

Land Use		**Area (in Ha)**
1. Agricultural land	=	310.00
2. Built – up area (Rural)	=	50.00
3. Tree clad close	=	662.00
4. Tree Clad Open	=	2371.00
4. Waste land	=	418.00
5. Water Bodies	=	148.00
Total	=	3959.00

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 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) Agriculture & Veterinary Services etc.

CHAPTER III

PROJECT PLANNING & INSTITUTION BUILDING

PROJECT PLANNING & INSTITUTION BUILDING

3.1 Scientific Planning

i) **Base Line Survey**: To establish a benchmark for assessing the impact of any intervention (pre-project & post project) a baseline survey is essential. The baseline survey included household census & socio-economic survey by using structured and semi –structured questionnaires, bio-physical survey to identify and assess the status of natural resources in the project area.

ii) **Participatory Rural Appraisal**: To further obtain information on the project area, the people, resources, various PRA techniques like resource mapping, social mapping, seasonal calendars, matrix ranking 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**
9Nos WJH-IWMP–I , II, III, IV, V,VI, VII, VIII & IX		
	Cluster approach	6
	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	Yes
	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) #	Yes
	Weather station	Yes
	(B) Inputs	
	1. Bio-Pesticides	No
	2. organic manure	Yes
	3. Vermicompost	Yes
	4. Bio- fertilizer	Yes
	5. Water saving device	Yes
	6.Mechanized Tools / Implement	No
	7. Bio- Fencing	Yes
	8. Nutrient budgeting	Yes
	9. Automatic water level recorders & Sediment samplers.	Yes
	Any other (please specify)	

3.2 Project Implementing Agency:

The PIA is the Soil & Water Conservation Territorial Division, Jowai West 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**	
West Jaintia Hills	WJH-IWMP-IX	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 Middle Mynsar, Umblo & Mynlep, WJH-IWMP- IX 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	Landless	UG	SHG	GP	Any other	Educational qualification	Function/s assigned #
West Jaintia Hills District	WJH-IWMP - IX	Middle Mynsar	Under process	President	M		ST							1		VIII	A to I
				Member	M		ST	3	1		2		2			VII to XII	- do-
				Member	F		ST	2	1		1	1	2				-do-
				Secretary	M		ST								1	Diploma Civil Engg.	-do-
		Umblo	Under process	President	M		ST							1		VIII	-do-
				Member	M		ST	3				2	2			VII to XII	-do-
				Member	F		ST	2	1			1	2				
				Secretary	M		ST								1	Deploma Civil Engg.	-do-
		Mynlep	Under process	President	M		ST							1		VII	-do-
				Member	M		ST	3	1		1		2			VIII TO X	-do-
				Member	/F		ST	2					3				
				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**
West Jaintia Hills	WJH – IWMP-IX	1	16	8	25	(i) Landless	-	-	-	-	-	-	-	-	-
						(ii) SF	16	159	175	16	159	175	-	-	-
						(iii) MF	13	118	131	13	118	131	-	-	-
						(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**		
		Men	**Women**	**both**	**Total**	**Categories**	**M**	**F**	**Total**	**M**	**F**	**Total**	**M**	**F**	**Total**
West Jaintia Hills	**WJH-IWMP IX**					(i) Landless	-	-	-	-	-	-	-	-	-
						(ii) SF	-	-					-	-	-
						(iii) MF	-	-	-	-	-	-	-	-	-
						(iv) LF	-	-	-	=	-	-	-	-	-
Total															

CHAPTER IV

PROJECT ACTIVITIES

PROJECT ACTIVITIES

4.1 Preparatory Phase:

i) Entry Point Activities (EPA)

1	2	3	4
Names of Project	**Amount earmarked for EPA**	**Entry Point Activities**	**Geographical Location**
WJH-IWMP-IX	18.12	1.Drinking well/Spring tapped chamber 2.Washing Platform 3.C.C Dam 4.Storage Tank 5.Footpath	**Middle Mynsar W/S** **Lat**- 25° 29.30' to 25° 32.30' **Long** -92° 32.00' to 92° 34.30' **Umblo W/S-** **Lat**- 25° 32.00' to 25° 33.00' **Long**- 92° 36.30' to 92° 37.00' **Mynlep W/S-** **Lat**- 25° 30.30' to 25° 31.30' **Long**- 92° 35.00' to 92° 36.30'

ii) Other activities of Preparatory Phase:

1	2	3	4	5	6	7
Initiation of village level institution	**Capacity building**	**IEC activities**	**Baseline survey**	**Hydro - geological survey**	**Identifying technical support agencies**	**Resource agree- ments**
1.no Watershed Committee at each benefiting village	12 nos	4 nos	Participatory Rural Appraisals	NA	Done	Done

4.2 Watershed Works Phase:

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

1	2	3			4											
Name of Project	**Type of structures**	**Pre Project**			**Proposed Project**											
					Augmentation/ repair of existing structure				**Construction of new structures**				**Total target**			
		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**	**Estimated cost In Lakhs**	**No**	**Area to be treated (ha)**	**Storage capacity (m3)**	**Estimated cost**
WJH-IWMP-IX	(i) Water Harvesting Structure	-	-		-	-		-	28	95	-	18.368	28	95	-	18.368
	(ii)Pond	-	-	-					19	10.5	-	6.08	19	10.5	-	6.08
	(iii)Lake	-	-	-							-	-	-	-	-	-
	(iv)Check Dam	-	-						28	69.5	-	16.744	28	69.5	-	16.744
	(v) Percolation Tank	-	-		-	-		-			-		-	-	-	-
	(vi) Channel	-	-						1074.46 RM.	17.5	-	0.8918	1074.46 RM.	17.5	-	0.8918
	(vii) Protection Wall	-	-	-	-	-		-	45	31.5	-	20.547	45	31.5		20.547
Total									120	224		62.6308	120	224		62.6308

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

1	2	3		4							
Names of Projects	**Type of structures**	**Pre-project**		**Proposed target**							
				Augmentation/repair of existing recharging structures			**Construction of new recharg-ing structures**			**Total target**	
		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**
WJH-IWMP-IX	(i) Open wells		Nil					Nil			
	(ii) Bore wells										
	(iii) Any other (pl specify)										
	Total for the project										

4.2.3 Activities executed by User Groups in the Project Areas.

The watershed committee shall also constitute User Groups in the watershed area with the help of WDT which will be responsible for the operation and maintenance of all the community assets created under the project, like community drinking water sources. The capacity of the user groups will be built through awareness and training programmes. User fees will be charged accordingly and fixed by the User Groups as per the requirement for maintenance of the assets created.

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

With the help of WDT and Watershed committee, SHG will be constituted from among the poor, small, marginal farmers and landless poor agricultural labourers. Awareness programmes will be conducted to sensitize and familarize these groups on various aspects of SHGs and help them to recognize that the project has the potential to improve their livelihood through community participation. Various training programme will also be conducted from time to time to enhance knowledge, attitudinal change and skill in blending modern technology with traditional/indigenous practice.Besides these, training on income generating activities such as tailoring, handicrafts, vegetable production, sericulture, composting poultry/piggery, integrated farming system, agricultural services etc will also be imparted from time to time.

4.2.7 Other activities of watershed works phase:

1	2		3		4		5		6		7		8		9		10		11	
Names of projects	**Ridge area treatment**		**Drainage line treatment**		**Nursery raising**		**Land Development**		**Crop demonstrations**		**Pasture development**		**Veterinary services**		**Fishery development**		**Non-conventional energy**		**Any other (please specify)**	
	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)
WJH-IWMP-IX	16 ha	2.6213	224 ha	62.6308	-	-	1458 ha	104.7139	3 Ha	0.3	-	-	-	-	-	-	-	-	1319 ha	83.414

4.2.8 Details of engineering structures in watershed works:

1	2	3			4			5					
Project	**Name of structures**	**Type of treatment**			**Type of land**			**Target**					
		(i)Ridge area(R)	**(ii) Drainage line (D)**	**(iii) Land dev.(L)**	**(i) Pri-vate**	**(ii) Commu nity**	**(iii) Others (pl.specif y)**	**No.of units (No./ cu.m/ rmt)**	**Estimated cost (Rs.in lakh)**				**Expected month & Year of completion (mm/yyyy)**
									M	**W**	**O**	**Total**	
WJH-IWMP-IX	Contour bunding	-	-	(L)	(i)	-	-	384 ha	-	28.8	-	28.8	2017-2018
	Peripheral bunding	(R)	-	-	(i)	-	-	2184.42 Rm	-	2.6213	-	2.6213	
	Check Dam (C.C.)		(D)	-	(i)	-	-	28 Nos	6.6976	10.0464	-	16.744	
	Protection wall		(D)	-	(i)	-	-	45 Nos	8.2188	12.3282	-	20.547	
	Dug out pond		(D)	-	(i)	-	-	19 Nos	-	-	-	6.08	
	W/H structure (Earthen with CC canal)		(D)		(i)	-	-	28 Nos	7.3472	11.0208	-	18.368	
	Channel		-	-	(i)	-	-	1074.46 Rmt	-	-	-	0.8918	
	Half moon terrace		-	(L)	(i)	-	-	156 ha	-	11.7		11.7	

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

1	2	3			4			5			
Project	**Name of structure/ work**	**Type of treatment**			**Type of Land**			**Target**			
		(i) Ridge area (R)	(ii) Drainage line (D)	(iii) Land Dev. (L)	(i) Private	(ii) Community	(iii) others (pl. specify)	Area (ha)	No. of Plants	Estimated cost (Rs. in Lakh)	Expected month & year of complrtion (mm/yyyy)
WJH-IWMP-IX	Afforestation				**(i)**	**(ii)**		544	190400	54.944	3yrs
	Regeneration										
	Agro-forestry				**(i)**			322	112,700	27.692	3 yrs
	Fuel Wood										
	Fodder										
	Agro-Horticulture							219	76650	18.834	3yrs
	Pasture dev.										
	Nursery raising										
	Others (Strip plantation)				**(i)**	\		115	11500	4.9059	3yrs
	Improvement of Degraded forest				**(i)**	**(ii)**		477	166950	17.172	3yrs

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.

4.2.12 Details of allied / other activities:

Project	Name of Activity @	Type of Land			Target	
		(i) private	(ii) Community	(iii)Others (pl. specify)	Estimated cost (Rs.in lakh)	Expected month & year of completion (mm/yyyy)
WJH –IWMP -IX						
	Kitchen gardening /Organic farming/compost pit	(i)	-	-	16.175	2017-2018
	Integrated farming system	(i)	-	-	5.61	2017-2018
	Ginger/Turmeric/Vegetable cultivation (crop demomstration)	(i)	-	-	0.3	2017-2018
	Piggery/Duckery	(i)	-	-	24.6	2017-2018
	Carpentry/Sprayer/Black Smit/Hallow Block Making	(i)	-	-	6.75	2017-2018
	Grocery Shop	-	(ii)	-	4.25	2017-2018
	Mushroom cultivation/Pisciculture/Mud Block making	-	-	-	-	-
	Vermi compost/Weaving	(i)	-	-	3.765	2017-2018
	Tailoring	(i)	-	-	14.08	2017-2018
	Agriculture & Veternary Services		(ii)		1.03	2017-2018
	Sericulture	(i)			9.81	2017-2018

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 typewise 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.

4.3 Consolidation and withdrawal phase

Details of activities in the CPRs in the project areas:

1	2	3	4	5			
Name of project	**Name (s) of the villages**	**CPR particular**	**Activity proposed**	**Target**			
				Target area under the activity (ha)	**Estimate expenditure (Rs. In lakh)**	**Expected no. of beneficiaries**	**Estimate contribution to WDF (Rs. In lakh)**
WJH-IWMP-IX	Umsalait, Thangthring Iooksi, Iongkasaro, Tongkiad.	1.Drinking water resources 2.Community forest land	1.Drinking well 2. Imp. of degraded forest 3. Afforestation	538ha	2.3634 38.608	Community	0.11817 1.9304
	Saphai A & Saphai B	1.Drinking water resources 2.Community forest land	1. Drinking well 2. Imp. of degraded Forest. 3. Afforestation	282 ha	2.412 21.332	Community	0.1206 1.0666

(Provide name of CPR)

Eg. 1.Village Forest

1	2	3	4	5			
				Target			
Name of project	**Name (s) of the villages**	**CPR particular**	**Activity proposed**	**Target area under the activity (ha)**	**Estimate expenditure (Rs)**	**Expected no. of beneficiaries**	**Estimate contribution to WDF (Rs)**
WJH-IWMP-IX	Rudkupli Iawthymme ,Priang, Umdienling .	1.Drinking water resources 2.Community forest land	1.Drinking well 2. Imp of degraded Forest. 3.Afforestation	201ha	0.75 12.176	Community	0.0375 0.6088

CHAPTER-V

PROJECT PHASING & BUDGETING

ACTION PLAN – PROJECT IWMP IX Fin. Rs. In Lakh. 453.00 Treatable Area = 3020 ha

	Activities	TOTAL				1st Year				2nd Year				3rd Year				4th Year				5th Year			
		Physical			Fin	Physical			Fin	Physical			Fin	Physical			Fin	Physical			Fin	Physical			Fin
		Ha.	Nos.	Rmt.		Ha.	Nos	Rmt		Ha.	Nos.	Rmt.		Ha.	Nos.	Rmt.		Ha.	Nos.	Rmt.		Ha	Nos	Rmt	
I	Admistrative Cost	10%			45.30					2%			9.06	5%			22.65	3%			13.59				
II	Monitoring & Evaluation	2%			9.06					0.5%			2.265	1%			4.53	0.5 %			2.265				
	Sub-Total of I & II	**12%**			**54.36**					**2.5**			**11.325**	**6%**			**27.18**	**3.5 %**			**15.855**				
III	Preparatory Phase																								
	EPA																								
	i. Drinking Well/Spring tapped chamber	1.22%			5.5266	1.22%			5.5266																
	ii. Washing Place	1.10%			4.983	1.10%			4.983																
	iii. C.C.Dam	0.9%			4.077	0.90%			4.077																
	iv. Storage Tank	0.5%			2.265	0.5%			2.265																
	v. Footpath	0.28%			1.2684	0.28%			1.2684																
	DPR	1%			4.53	1%			4.53																
	Institutional & Capacity Building	5%			22.65	1%			4.53	2%			9.06	1%			4.53	1%			4.53				
	Sub-Total of III	**10%**			**45.30**	**6%**			**27.18**	**2%**			**9.06**	**1%**			**4.53**	**1%**			**4.53**				
IV	**Work Phase**																								
A.	**Arable Land Treatment**																								
	Vegetative Barriers																								
	Contour Bunds	384			28.8									214			16.05	170			12.75				
	Graded Bunds																								
	Loose Boulder Contour Bunds																								
	Bench Terrace																								
	Wet Terrace																								
	Box Terrace																								
	Half Moon Terrace	156			11.7					30			2.25	126			9.45								
	Field Bunding																								
	Peripheral Bunding	16		2184.42	2.6213					6.5		876.84	1.0522	6.5		925.5	1.1106	3		382.08	0.4585				
	Crop Demonstration	3	6		0.3					3	6		0.3												
	Kitchen Garden																								
	Improvement of Existing Paddy Fields	560			24.08					103			4.429	402			17.286	55			2.365				
	Crop Demonstration																								
	Agro-Horticulture	219			18.834					219			2.847				10.074				5.913				
	Horticulture Development																								
	Sub-Total of A	**1338**	**6**	**2184.42**	**86.3353**					**361.5**	**6**	**876.84**	**10.8782**	**748.5**		**925.5**	**53.9706**	**228**		**382.08**	**21.4865**				

		Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin
B.	**Non-Arable Land**																								
	Improvement of Degraded Forest/Existing Natural Forest	477			17.172					477			3.339				9.063				4.77				
	Afforestation	544			54.944					544			9.248				29.92				15.776				
	Agro-Forestry	322			27.692					322			4.186				14.812				8.694				
	Nursery Establishment																								
	Avenue Plantation																								
	Strip Plantation	115			4.9059					115			0.8464				2.691				1.3685				
	Sub-Total of B	**1458**			**104.7139**					**1458**			**17.6194**				**56.486**				**30.6085**				
C.	**Drainage Line Treatment**																								
	Farm Ponds/Dug out Ponds	10.5	19		6.08					2.5	3		0.96	8	16		5.12								
	Water Harvesting structures	95	28		18.368									95	28		18.368								
	Nallah Bund																								
	Earthen Embankment																								
	Check Dams, H/W Dam, Diversion Dam/Irrigation Dam	69.5	28		16.744					11.5	4		2.392	58	24		14.352								
	Loose Boulder Check Dam																								
	Gabion Protection / Retaining Wall																								
	Stone Masonry/Protection wall/Retaining wall	31.5	45		20.547					4	4		1.8264	27.5	41		18.7206								
	Bamboo wall, Bamboo spurs																								
	Drip Irrigation																								
	Water Tank/Perrcolation Tank																								
	Run off Disposal Channel	17.5		1074.46	0.8918					5		360.24	0.299	12.5		714.22	0.5928								
	Earthen Irrigation Channel																								
	CC Irrigation Channel																								
	Aqueduct																								
	Sub-Total of C	**224**	**120**	**1074.46**	**62.6308**					**23**	**11**	**360.24**	**5.4774**	**201**	**109**	**714.22**	**57.1534**								
D.	**Livelihood**																								
	Tailoring		176		14.08						15		1.2		47		3.76		114		9.12				
	Carpentry/Blacksmith		135		6.75										47		2.35		88		4.4				
	Agriculture Implements																								
	Vegetable Production/Kitchen Gardening		647		16.175						83		2.075		249		6.225		315		7.875				
	Apiculture																								
	Masonry Hollow Block Making																								

		Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin
	Piggery																								
	Poultry																								
	Vermi-composting		30		3.765						10		1.255		10		1.255		10		1.255				
	Composting																								
	Weaving																								
	Stabilized Mud Block Making																								
	Grocery Shop/Food Stalls																								
	Promotion of Indigenous Medicinal Practioner																								
	Pisciculture																								
	Soap Making																								
	Sub-Total of D		**988**		**40.77**						**108**		**4.53**		**353**		**13.59**		**527**		**22.65**				
E.	**Production Systems**																								
	Poultry/Piggery		82		24.6						5		1.5		31		9.3		46		13.8				
	Poultry Farming																								
	Piggery Farming																								
	Food Processing																								
	Floriculture																								
	Pisciculture (Including Supply of Fingerlings)																								
	Betle nut Soaking Tank																								
	Canes and Handicrafts																								
	Rural Godowns/Cold Storage																								
	Cableway Taxing																								
	Apiculture/Bee Keeping																								
	Grocery Shop		17		4.25						10		2.5		1		0.25		6		1.5				
	Vermi-composting																								
	Milch Cow Rearing																								
	Saloon/Beauty Parlour																								
	Mushroom Cultivation																								
	Floriculture																								
	Goat Rearing																								
	Weaving and Handloom																								
	Stabilized Mud Block Making																								
	Carpentry/Blacksmithy																								
	Duckery																								
	Sericulture		36		9.81						1		0.2725		12		3.27		23		6.2675				
	Soap Making																								

		Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin
	Rice Mill Operation																								
	Improved Fuel Making (fire cakes etc.)																								
	Integrated Farming System		22		5.61										1		0.255		21		5.355				
	Basket Making																								
	Kitchen Gardening																								
	Miscillaneous Enterprises for (SHG) (Agriculture & Vetinary services)		4		1.03						1		0.2575		2		0.515		1		0.2575				
	Sub-Total of E		**161**		**45.3**						**17**		**4.53**		**47**		**13.59**		**97**		**27.18**				
	Sub-Total of IV (A,B,C,D,E)	**3020**	**1275**	**3258.88**	**339.75**					**1842.5**	**142**	**1237.08**	**43.035**	**949.5**	**509**	**1639.72**	**194.79**	**228**	**624**	**382.08**	**101.925**				
V	**Consolidation Phase**	**3%**			**13.59**																	**3%**			**13.59**
	Sub-Total of V	**3%**			**13.59**																	**3%**			**13.59**
	Grand Total (I+II+III+IV+V)	**3020**	**1275**	**3258.88**	**453**	**6%**			**27.18**	**1842.5**	**142**	**1237.08**	**63.42**	**949.5**	**509**	**1639.72**	**226.5**	**228**	**624**	**382.08**	**122.31**	**3%**			**13.59**

Assistant Soil & Water Conservation Officer
Civil Engineering
Crop Diversification
Jowai

K. S. PALE
Asst. Soil & Water Conservation Officer
(Civil Engineering)
Jaintia Hills (T) Division
Jowai

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

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

ABSTRACT –WJ H – I.W.M.P – IX – 2012 – 2013

MICRO WATERSHED

YEARWISE		CENTRAL SHARE (Rs. In Lakhs)		STATE SHARE (Rs. In Lakhs)		TOTAL (Rs. In Lakh)
1st year		24.462	-	2.718	-	27.18
2nd year		57.078	-	6.342	-	63.42
3rd year		203.85	-	22.65	-	226.5
4th year		110.079	-	12.231	-	122.31
5th year		12.231	-	1.359	-	13.59
Total	**=**	**407.7**	**-**	**45.3**	**-**	**453.00**

Deputy Commissioner
West Jaiñtia Hills Dist
Jowai

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

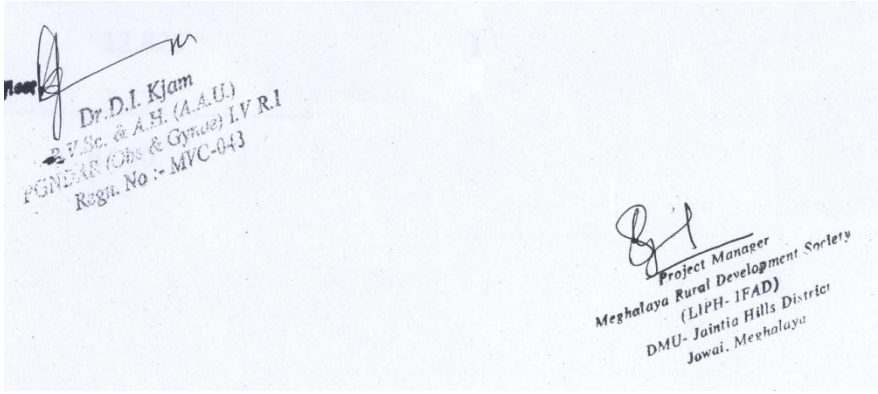
ACTION PLAN – PROJECT IWMP IX Fin. Rs. In Lakh- 150.75 Treatable Area = 1005 ha Micro Watershed = Umbloo

	Activities	TOTAL				1st Year				2nd Year				3rd Year				4th Year				5th Year			
		Physical			Fin	Physical			Fin	Physical			Fin	Physical			Fin	Physical			Fin	Physical			Fin
		Ha.	**Nos.**	**Rmt.**		**Ha.**	**Nos**	**Rmt**		**Ha.**	**Nos.**	**Rmt**		**Ha.**	**Nos**	**Rmt.**		**Ha.**	**Nos.**	**Rmt.**		**Ha.**	**Nos.**	**Rmt**	
I	Admistrative Cost	10%			15.075					2%			3.015	5%			7.5375	3%			4.5225				
II	Monitoring & Evaluation	2%			3.015					0.5%			0.75375	1%			1.5075	0.5%			0.75375				
	Sub-Total of I & II	**12%**			**18.09**					**2.5%**			**3.76875**	**6%**			**9.045**	**3.5%**			**5.27625**				
III	Preparatory Phase																								
	EPA																								
	i. Drinking Well/Spring tapped chamber	1.6%			2.412	1.6%			2.412																
	ii. Washing Place	1.2%			1.809	1.2%			1.809																
	iii. C.C. Dam	1.2%			1.809	1.2%			1.809																
	iv. Crematorium																								
	v.																								
	DPR	1%			1.5075	1%			1.5075																
	Institutional & Capacity Building	5%			7.5375	1%			1.5075	2%			3.015	1%			1.5075	1%			1.5075				
	Sub-Total of III	**10%**			**15.075**	**6%**			**9.045**	**2%**			**3.015**	**1%**			**1.5075**	**1%**			**1.5075**				
IV	Work Phase																								
A.	**Arable Land Treatment**																								
	Vegetative Barriers																								
	Contour Bunds	148			11.1									74			5.55	74			5.55				
	Graded Bunds																								
	Loose Boulder Contour Bunds																								
	Bench Terrace																								
	Wet Terrace																								
	Box Terrace																								
	Half Moon Terrace																								
	Field Bunding																								
	Peripheral Bunding	5		687.5	0.825					1		143.21	0.17185	3		423.67	0.5084	1		120.62	0.14475				
	Crop Demonstration	1.5	3		0.15					1.5	3		0.15												
	Kitchen Garden																								
	Improvement of Existing Paddy Fields	230			9.89					103			4.429	127			5.461								
	Crop Demonstration																								
	Agro-Horticulture	68			5.848					68			0.884				3.128				1.836				
	Horticulture Development																								
	Sub-Total of A	**452.5**	**3**	**687.5**	**27.813**					**173.5**	**3**	**143.21**	**5.63485**	**204**		**423.67**	**14.6474**	**75**		**120.62**	**7.53075**				

		Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin
B.	**Non-Arable Land**																								
	Improvement of Degraded Forest/Existing Natural Forest	110			3.96					110			0.77				2.09				1.1				
	Afforestation	172			17.372					172			2.924				9.46				4.988				
	Agro-Forestry	87			7.482					87			1.131				4.002				2.349				
	Nursery Establishment																								
	Avenue Plantation																								
	Strip Plantation	115			4.9059					115			0.8464				2.691				1.3685				
	Sub-Total of B	**484**			**33.7199**					**484**			**5.6714**				**18.243**				**9.8055**				
C.	**Drainage Line Treatment**																								
	Farm Ponds/Dug out Ponds	4	8		2.56									4	8		2.56								
	Water Harvesting structures	33	11		7.216									33	11		7.216								
	Nallah Bund																								
	Earthen Embankment																								
	Check Dams, H/W Dam, Diversion Dam/Irrigation Dam	18	10		5.98									18	10		5.98								
	Loose Boulder Check Dam																								
	Gabion Protection / Retaining Wall																								
	Stone Masonry/Protection wall/Retaining wall	7.5	15		6.849									7.5	15		6.849								
	Bamboo wall, Bamboo spurs																								
	Drip Irrigation																								
	Water Tank/Perrcolation Tank																								
	Run off Disposal Channel	6		339.88	0.2821									6		339.88	0.2821								
	Earthen Irrigation Channel																								
	CC Irrigation Channel																								
	Aqueduct																								
	Sub-Total of C	**68.5**	**44**	**339.88**	**22.8871**									**68.5**	**44**	**339.88**	**22.8871**								
D.	**Livelihood**																								
	Tailoring		67		5.36						11		0.88		9		0.72		47		3.76				
	Carpentry/Blacksmith		30		1.5														30		1.5				
	Agriculture Implements																								
	Vegetable Production/Kitchen Gardening		193		4.825										127		3.175		66		1.65				
	Apiculture																								

		Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin
	Masonry Hollow Block Making																								
	Piggery																								
	Poultry																								
	Vermi-composting		15		1.8825						5		0.6275		5		0.6275		5		0.6275				
	Composting																								
	Weaving																								
	Stabilized Mud Block Making																								
	Grocery Shop/Food Stalls																								
	Promotion of Indigenous Medicinal Practioner																								
	Pisciculture																								
	Soap Making																								
	Sub-Total of D		**305**		**13.5675**						**16**		**1.5075**		**141**		**4.5225**		**148**		**7.5375**				
E.	**Production Systems**																								
	Poultry/Piggery		24		7.2										7		2.1		17		5.1				
	Poultry Farming																								
	Piggery Farming																								
	Food Processing																								
	Floriculture																								
	Pisciculture (Including Supply of Fingerlings)																								
	Betle nut Soaking Tank																								
	Canes and Handicrafts																								
	Rural Godowns/Cold Storage																								
	Cableway Taxing																								
	Apiculture/Bee Keeping																								
	Grocery Shop		6		1.5						5		1.25						1		0.25				
	Vermi-composting																								
	Milch Cow Rearing																								
	Saloon/Beauty Parlour																								
	Mushroom Cultivation																								
	Floriculture																								
	Goat Rearing																								
	Weaving and Handloom																								
	Stabilized Mud Block Making																								
	Carpentry/Blacksmithy																								
	Duckery																								

		Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin
	Sericulture		14		3.815										7		1.9075		7		1.9075				
	Soap Making																								
	Rice Mill Operation																								
	Improved Fuel Making (fire cakes etc.)																								
	Integrated Farming System		6		1.53														6		1.53				
	Basket Making																								
	Kitchen Gardening																								
	Miscillaneous Enterprises for (SHG) (Agriculture & Vetinary services)		4		1.03					1		0.2575		2		0.515		1		0.2575				
	Sub-Total of E		**54**		**15.075**					**6**		**1.5075**		**16**		**4.5225**		**32**		**9.045**				
	Sub-Total of IV (A,B,C,D,E)	**1005**	**406**	**1027.38**	**113.0625**				**657.5**	**25**	**143.21**	**14.32125**	**272.5**	**201**	**763.55**	**64.8825**	**75**	**180**	**120.62**	**33.91875**				
V	**Consolidation Phase**	**3%**			**4.5225**																	**3%**			**4.5225**
	Sub-Total of V	**3%**			**4.5225**																	**3%**			**4.5225**
	Grand Total (I+II+III+IV+V)	**1005**	**406**	**1027.38**	**150.75**	**6%**			**9.045**	**657.5**	**25**	**143.21**	**21.105**	**272.5**	**201**	**763.55**	**75.375**	**75**	**180**	**120.62**	**40.7025**	**3%**			**4.5225**



ABSTRACT – WJ H – I.W.M.P – IX – 2012 – 2013

UMBLOO MICRO WATERSHED

YEARWISE		CENTRAL SHARE (Rs. In Lakhs)		STATE SHARE (Rs. In Lakhs)		TOTAL (Rs. In Lakh)
		90%		10%		
1st year		8.1405	-	0.9045	-	9.045
2nd year		18.9945	-	2.1105	-	21.105
3rd year		67.8375	-	7.5375	-	75.375
4th year		36.63225	-	4.07025	-	40.7025
5th year		4.07025	-	0.45225	-	4.5225
Total	**=**	**135.675**	**-**	**15.075`**	**-**	**150.75**

Deputy Commissioner
West Jaintia Hills Dist
Jowai

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

ACTION PLAN – PROJECT IWMP IX Rs. In Lakh. 227.25 Treatable Area = 1515 ha Micro Watershed – MiddleMynsar

	Activities	Total			Fin	1st Year			Fin	2nd Year			Fin	3rd Year			Fin	4th Year			Fin	5th Year			Fin
		Physical				Physical				Physical				Physical				Physical				Physical			
		Ha	Nos	Rmt		Ha	Nos	Rmt		Ha	Nos	Rmt		Ha	Nos	Rmt		Ha	Nos	Rmt		Ha	Nos	Rmt	
I	**Admistrative Cost**	10%			22.725					2%			4.545	5%			11.3625	3%			6.8175				
II	**Monitoring & Evaluation**	2%			4.545					0.5%			1.13625	1.0%			2.2725	0.5%			1.13625				
	Sub-Total of I & II	**12%**			**27.27**					**2.5%**			**5.68125**	**6%**			**13.635**	**3.5%**			**7.95375**				
III	**Preparatory Phase**																								
	EPA																								
	i. Drinking Well/Spring tapped chamber	1.04%			2.3634	1.04%			2.3634																
	ii. Washing Place	1.2%			2.727	1.2%			2.727																
	iii. Storage Tank	0.6%			1.3635	0.6%			1.3635																
	iv. C.C. Dam	0.6%			1.3635	0.6%			1.3635																
	v.Footpath	0.56%			1.2726	0.56%			1.2726																
	DPR	1%			2.2725	1%			2.2725																
	Institutional & Capacity Building	5%			11.3625	1%			2.2725	2%			4.545	1%			2.2725	1%			2.2725				
	Sub-Total of III	**10%**			**22.725**	**6%**			**13.635**	**2%**			**4.545**	**1%**			**2.2725**	**1%**			**2.2725**				
IV	**Work Phase**																								
A.	**Arable Land Treatment**																								
	Vegetative Barriers																								
	Contour Bunds	236			17.7									140			10.5	96			7.2				
	Graded Bunds																								
	Loose Boulder Contour Bunds																								
	Bench Terrace																								
	Wet Terrace																								
	Box Terrace																								
	Half Moon Terrace	100			7.5					30			2.25	70			5.25								
	Field Bunding																								
	Peripheral Bunding	8		1100.42	1.3205					4.5		596.96	0.71635	2.5		352.83	0.4234	1		150.63	0.18075				
	Crop Demonstration																								
	Kitchen Garden																								
	Improvement of Existing Paddy Fields	220			9.46									220			9.46								
	Crop Demonstration																								
	Agro-Horticulture	95			8.17					95			1.235				4.37				2.565				
	Horticulture Development																								
	Sub-Total of A	**659**		**1100.42**	**44.1505**					**129.5**		**596.96**	**4.20135**	**432.5**		**352.83**	**30.0034**	**97**		**150.63**	**9.94575**				

		Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin
B.	**Non-Arable Land**																								
	Improvement of Degraded Forest/Existing Natural Forest	242			8.712					242			1.694				4.598				2.42				
	Afforestation	296			29.896					296			5.032				16.28				8.584				
	Agro-Forestry	192			16.512					192			2.496				8.832				5.184				
	Nursery Establishment																								
	Avenue Plantation																								
	Strip Plantation																								
	Sub-Total of B	**730**			**55.12**					**730**			**9.222**				**29.71**				**16.188**				
C.	**Drainage Line Treatment**																								
	Farm Ponds/Dug out Ponds	4	8		2.56									4	8		2.56								
	Water Harvesting structures	52	13		8.528									52	13		8.528								
	Nallah Bund																								
	Earthen Embankment																								
	Check Dams, H/W Dam, Diversion Dam/Irrigation Dam	45.5	14		8.372					10	3		1.794	35.5	11		6.578								
	Loose Boulder Check Dam																								
	Gabion Protection / Retaining Wall																								
	Stone Masonry/Protection wall/Retaining wall	18	18		8.2188					4	4		1.8264	14	14		6.3924								
	Bamboo wall, Bamboo spurs																								
	Drip Irrigation																								
	Water Tank/Perrcolation Tank																								
	Run off Disposal Channel	6.5		374.34	0.3107									6.5		374.34	0.3107								
	Earthen Irrigation Channel																								
	CC Irrigation Channel																								
	Aqueduct																								
	Sub-Total of C	**126**	**53**	**374.34**	**27.9895**					**14**	**7**		**3.6204**	**112**	**46**	**374.34**	**24.3691**								
D.	**Livelihood**																								
	Tailoring		74		5.92						4		0.32		23		1.84		47		3.76				
	Carpentry/Blacksmith		72		3.60										35		1.75		37		1.85				
	Agriculture Implements																								
	Vegetable Production/Kitchen Gardening		362		9.05						53		1.325		104		2.6		205		5.125				
	Apiculture																								
	Masonry Hollow Block Making																								
	Piggery																								

		Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin
	Poultry																								
	Vermi-composting		15		1.8825						5		0.6275		5		0.6275		5		0.6275				
	Composting																								
	Weaving																								
	Stabilized Mud Block Making																								
	Grocery Shop/Food Stalls																								
	Promotion of Indigenous Medicinal Practioner																								
	Pisciculture																								
	Soap Making																								
	Sub-Total of D		**523**		**20.4525**						**62**		**2.2725**		**167**		**6.8175**		**294**		**11.3625**				
E.	**Production Systems**																								
	Poultry/Piggery		45		13.5						5		1.5		20		6.0		20		6.0				
	Poultry Farming																								
	Piggery Farming																								
	Food Processing																								
	Floriculture																								
	Pisciculture (Including Supply of Fingerlings)																								
	Betle nut Soaking Tank																								
	Canes and Handicrafts																								
	Rural Godowns/Cold Storage																								
	Cableway Taxing																								
	Apiculture/Bee Keeping																								
	Grocery Shop		3		0.75						2		0.5						1		0.25				
	Vermi-composting																								
	Milch Cow Rearing																								
	Saloon/Beauty Parlour																								
	Mushroom Cultivation																								
	Floriculture																								
	Goat Rearing																								
	Weaving and Handloom																								
	Stabilized Mud Block Making																								
	Carpentry/Blacksmithy																								
	Duckery																								
	Sericulture		18		4.905						1		0.2725		3		0.8175		14		3.815				
	Soap Making																								

		Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin
	Rice Mill Operation																								
	Improved Fuel Making (fire cakes etc.)																								
	Integrated Farming System		14		3.57														14		3.57				
	Basket Making																								
	Kitchen Gardening																								
	Miscillaneous Enterprises for (SHG) (Agriculture & Vetinary services)																								
	Sub-Total of E		**80**		**22.725**						**8**		**2.2725**		**23**		**6.8175**		**49**		**13.635**				
	Sub-Total of IV (A,B,C,D,E)	**1515**	**656**	**1474.76**	**170.4375**					**873.5**	**77**	**596.96**	**21.58875**	**544.5**	**236**	**727.17**	**97.7175**	**97**	**343**	**150.63**	**51.13125**				
V	**Consolidation Phase**	**3%**			**6.8175**																	**3%**			**6.8175**
	Sub-Total of V	**3%**			**6.8175**																	**3%**			**6.8175**
	Grand Total (I+II+III+IV+V)	**1515**	**656**	**1474.76**	**227.25**	**6%**			**13.635**	**873.5**	**77**	**596.96**	**31.815**	**544.5**	**236**	**727.17**	**113.625**	**97**	**343**	**150.63**	**61.3575**	**3%**			**6.8175**

Assistant Soil & Water Conservation Officer
Cash Crop Division
Jowai

K. S. PALE
Asst. Soil & Water Conservation Officer
(Civil Engineering)
Jaintia Hills (T) Division
Jowai

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

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

ABSTRACT – WJ H – I.W.M.P – IX – 2012 – 2013

MIDDLE MYNSAR MICRO WATERSHED

YEARWISE	**CENTRAL SHARE (Rs. In Lakhs)**		**STATE SHARE (Rs. In Lakhs)**		**TOTAL (Rs. In Lakh)**
	90%		10%		
1st year	12.2715	-	1.3635	-	13.635
2nd year	28.6335	-	3.1815	-	31.815
3rd year	102.2625	-	11.3625	-	113.625
4th year	55.22175	-	6.13575	-	61.3575
5th year	6.13575	-	0.68175	-	6.8175
Total =	**204.525**	-	**22.725**	-	**227.25**

Deputy Commissioner
West Jaiñtia Hills Dist
Jowai

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

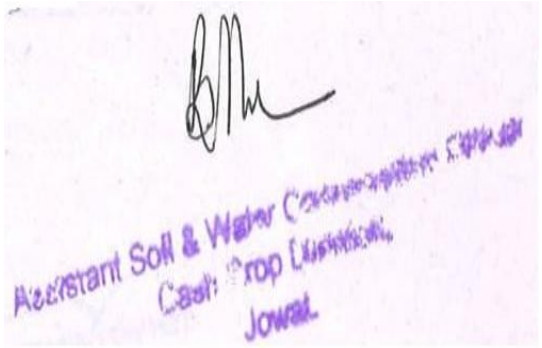
ACTION PLAN – PROJECT IWMP IX Fin. Rs. In Lakh. 75.00 Treatable Area = 500 ha Micro Watershed = Mynlep

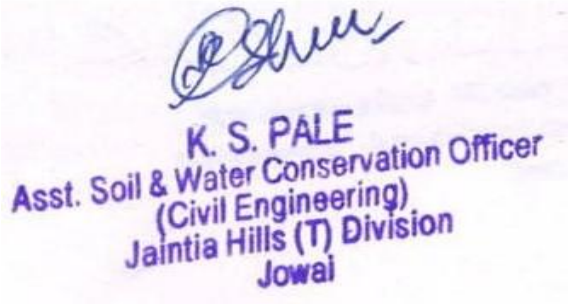
	Activities	TOTAL				1st Year				2nd Year				3rd Year				4th Year				5th Year			
		Physical			Fin	Physical			Fin	Physical			Fin	Physical			Fin	Physical			Fin	Physical			Fin
		Ha.	**Nos**	**Rmt**		**Ha.**	**Nos.**	**Rmt**		**Ha.**	**Nos.**	**Rmt.**		**Ha.**	**Nos.**	**Rmt.**		**Ha.**	**Nos**	**Rmt**		**Ha**	**Nos**	**Rmt**	
I	**Admistrative Cost**	10%			7.5					2%			1.5	5%			3.75	3%			2.25				
II	**Monitoring & Evaluation**	2%			1.5					0.5%			0.375	1%			0.75	0.5%			0.375				
	Sub-Total of I & II	**12%**			**9.0**					**2.5%**			**1.875**	**6%**			**4.50**	**3.5%**			**2.625**				
III	**Preparatory Phase**																								
	EPA																								
	i. Drinking Well/Spring tapped chamber	1.0%			0.75	1.0%			0.75																
	ii. Washing Place	0.6%			0.45	0.6%			0.45																
	iii. Storage Tank	1.2%			0.9	1.2%			0.9																
	iv. C.C. Dam	1.2%			0.9	1.2%			0.9																
	v.																								
	DPR	1.0%			0.75	1.0%			0.75																
	Institutional & Capacity Building	5.0%			3.75	1.0%			0.75	2%			1.5	1%			0.75	1%			0.75				
	Sub-Total of III	**10%**			**7.5**	**6%**			**4.50**	**2%**			**1.5**	**1%**			**0.75**	**1%**			**0.75**				
IV	**Work Phase**																								
A.	**Arable Land Treatment**																								
	Vegetative Barriers																								
	Contour Bunds																								
	Graded Bunds																								
	Loose Boulder Contour Bunds																								
	Bench Terrace																								
	Wet Terrace																								
	Box Terrace																								
	Half Moon Terrace	56			4.2									56			4.2								
	Field Bunding																								
	Peripheral Bunding	3		396.5	0.4758					1		136.67	0.164	1		149.00	0.1788	1		110.83	0.133				
	Crop Demonstration	1.5	3		0.15					1.5	3		0.15												
	Kitchen Garden																								
	Improvement of Existing Paddy Fields	110			4.73									55			2.365	55			2.365				
	Crop Demonstration																								
	Agro-Horticulture	56			4.816					56			0.728				2.576				1.512				
	Horticulture Development																								
	Sub-Total of A	**226.5**	**3**	**396.5**	**14.3718**					**58.5**	**3**	**136.67**	**1.042**	**112**		**149.00**	**9.3198**	**56**		**110.83**	**4.01**				

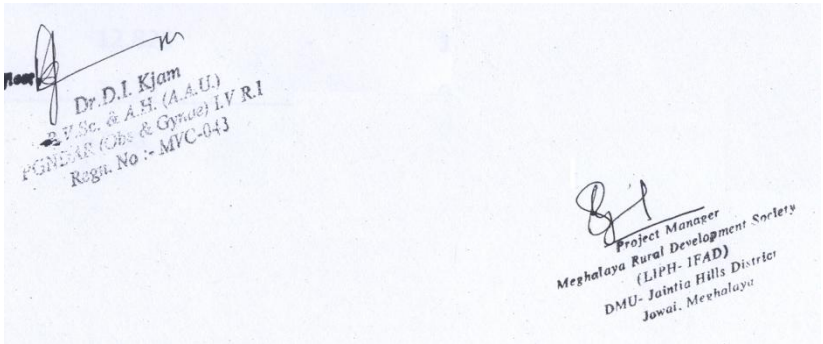
		Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin
B.	**Non-Arable Land**																								
	Improvement of Degraded Forest/Existing Natural Forest	125			4.5					125			0.875				2.375				1.25				
	Afforestation	76			7.676					76			1.292				4.180				2.204				
	Agro-Forestry	43			3.698					43			0.559				1.978				1.161				
	Nursery Establishment																								
	Avenue Plantation																								
	Strip Plantation																								
	Sub-Total of B	**244**			**15.874**					**244**			**2.726**				**8.533**				**4.615**				
C.	**Drainage Line Treatment**																								
	Farm Ponds/Dug out Ponds	2.5	3		0.96					2.5	3		0.96												
	Water Harvesting structures	10	4		2.624									10	4		2.624								
	Nallah Bund																								
	Earthen Embankment																								
	Check Dams, H/W Dam, Diversion Dam/Irrigation Dam	6	4		2.392					1.5	1		0.598	4.5	3		1.794								
	Loose Boulder Check Dam																								
	Gabion Protection /Retaining Wall																								
	Stone Masonry/Protection wall/Retaining wall	6	12		5.4792									6	12		5.4792								
	Bamboo wall, Bamboo spurs																								
	Drip Irrigation																								
	Water Tank/Perrcolation Tank																								
	Run off Disposal Channel	5		360.24	0.299					5		360.24	0.299												
	Earthen Irrigation Channel																								
	CC Irrigation Channel																								
	Aqueduct																								
	Sub-Total of C	**29.5**	**23**	**360.24**	**11.7542**					**9**	**4**	**360.24**	**1.857**	**20.5**	**19**		**9.8972**								
D.	**Livelihood**																								
	Tailoring		35		2.80										15		1.20		20		1.60				
	Carpentry/Blacksmith		33		1.65										12		0.60		21		1.05				
	Agriculture Implements																								
	Vegetable Production/Kitchen Gardening		92		2.30						30		0.75		18		0.45		44		1.10				
	Apiculture																								
	Masonry Hollow Block Making																								

		Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin
	Piggery																								
	Poultry																								
	Vermi-composting																								
	Composting																								
	Weaving																								
	Stabilized Mud Block Making																								
	Grocery Shop/Food Stalls																								
	Promotion of Indigenous Medicinal Practioner																								
	Pisciculture																								
	Soap Making																								
	Sub-Total of D		**160**		**6.75**						**30**		**0.75**		**45**		**2.25**		**85**		**3.75**				
E	**Production Systems**																								
	Poultry/Piggery		13		3.9										4		1.2		9		2.7				
	Poultry Farming																								
	Piggery Farming																								
	Food Processing																								
	Floriculture																								
	Pisciculture (Including Supply of Fingerlings)																								
	Betle nut Soaking Tank																								
	Canes and Handicrafts																								
	Rural Godowns/Cold Storage																								
	Cableway Taxing																								
	Apiculture/Bee Keeping																								
	Grocery Shop		8		2.0						3		0.75		1		0.25		4		1.0				
	Vermi-composting																								
	Milch Cow Rearing																								
	Saloon/Beauty Parlour																								
	Mushroom Cultivation																								
	Floriculture																								
	Goat Rearing																								
	Weaving and Handloom																								
	Stabilized Mud Block Making																								
	Carpentry/Blacksmithy																								
	Duckery																								
	Sericulture		4		1.09										2		0.545		2		0.545				

		Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin	Ha	Nos	Rmt	Fin
	Soap Making																								
	Rice Mill Operation																								
	Improved Fuel Making (fire cakes etc.)																								
	Integrated Farming System		2		0.51										1		0.255		1		0.255				
	Basket Making																								
	Kitchen Gardening																								
	Miscillaneous Enterprises for (SHG) (Agriculture & Vetinary services)																								
	Sub-Total of E		**27**		**7.5**						**3**		**0.75**		**8**		**2.25**		**16**		**4.5**				
	Sub-Total of IV (A,B,C,D,E)	**500**	**213**	**756.74**	**56.25**					**311.5**	**40**	**496.91**	**7.125**	**132.5**	**72**	**149.00**	**32.25**	**56**	**101**	**110.83**	**16.875**				
V	**Consolidation Phase**	**3%**			**2.25**																	**3%**			**2.25**
	Sub-Total of V	**3%**			**2.25**																	**3%**			**2.25**
	Grand Total (I+II+III+IV+V)	**500**	**213**	**756.74**	**75.00**	**6 %**			**4.5**	**311.5**	**40**	**496.91**	**10.5**	**132.5**	**72**	**149.00**	**37.5**	**56**	**101**	**110.83**	**20.25**	**3%**			**2.25**







ABSTRACT – WJ H – I.W.M.P – IX – 2012 – 2013

MYNLEP MICRO WATERSHED

YEARWISE	CENTRAL SHARE (Rs. In Lakhs) 90%		STATE SHARE (Rs. In Lakhs) 5%		TOTAL (Rs. In Lakh)
1st year	4.05	-	0.45	-	4.50
2nd year	9.45	-	1.05	-	10.50
3rd year	33.75	-	3.75	-	37.50
4th year	18.225	-	2.025	-	20.25
5th year	2.025	-	0.225	-	2.25
Total =	**67.50**	**-**	**7.50**	**-**	**75.00**

Deputy Commissioner
West Jaintia Hills Dist
Jowai

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

Details of types of areas covered under the IWMP Programme:

	2	3		4	5	6	7				8				
Names of Projects	**Year of Sanction**	**Project Duration (dd/mm/yyyy)**		**Area of the Project Area of the projects to be treated (Treatable Areas**	**Project cost (Rs.In Lakh)**	**Names of Micro watersheds &Code Nos.(As per Dolr's unique Codification)**	**Treatable Area (ha) (As per LULC)**				**Area details (ha) (falling within the Projects(As per ownership))**				
		From	**To**				**Cultivated rainfed area**	**Cultivated irrigated area**	**Uncultivated wasteland**		**Pvt. Agri. Land**	**Forest land**	**Community Land**	**Others (pl. Specify)**	**Total Area (ha)**
									a) Temporary fallow	**b) Permanent**					
WJH-IWMP-IX	2012-2013	2012	2016	3020Ha	453.00	Middle Mynsar 3B2C4d1h	148	-	1293 Ha	-	148Ha	359Ha	541Ha	822	1870Ha
						Umblo 3B2C4c3d	119	-	979 Ha	-	119Ha	267Ha	396Ha	594	1376Ha
						Mynlep 3B2C4c3a	43		517 Ha		43Ha	36Ha	198Ha	436	713Ha

Fund provision for the IWMP projects from all sources:

1	2		3										4
Name of projects	**IWMP Fund**		**Funds from other sources in addition to IWMP funds**										**Total**
			Convergence funds		**PPP**		**Community**		**Institutional finance**		**Others (Pl. specify)**		
	Central share 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**	
WJH-IWMP-IX	407.7	45.3	MGNREGS	12.54	-	NIL							**12.54**

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

1	2				3				
	Distt. Agency 's Project Account details				**Watershed Committee (WC) account details:**				
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 & Designation of authorized Persons who operate the Account.**	**Name of Watershed comm-ittee**	**Name of the Bank and Branch Where proje3ct account has been opened**	**Account number (to be obtained confidentially)**	**Account type (savings/ current others)**	**Name & Designation of authorized persons who operate the account.**
WJH.-IWMP-IX	SBI Ladthalaboh Jowai Branch	blank	Saving	Shri D.Shallam	1.Middle MynsarW/S Committee 2. Umblo W/S Committee 3. MynlepW/S Committee	Under process	-	-	NA

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^{s}**
West Jaintia Hills	WJH – IWMP-IX	DRDA, Under MGNREGS	**12.54**	(a)	**-**	District level

ABSTRACT OF PERSPECTIVE PLAN FOR CONVERGENCE OF NREGS WITH IWMP 2012-13
UNDER MIDDLE MYNSAR, UMBLO, MYNLEP WATERSHED PROJECT IX

Name of Watershed	Middle Mynsar, Watershed	Umblo Watershed	Mynlep Watershed
Name of Village	Umsalait, Thangthring, Iooksi, Iongkasaro, Tongkyiad	Saphai 'A', Saphai 'B'	Rudkupli, Iawthymme, Priang, Umdienling
Name of C&RD Block	Laskein C&RD Block	Thadlaskein C&RD Block	Thadlaskein C&RD Block
Name of District	West Jaintia Hills	West Jaintia Hills	West Jaintia Hills

Sl. No	Activities	Units	Project Period								Total	
			2013 – 14		2014 – 15		2015 – 2016		2016 – 2017			
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
1.	**Middle Mynsar Watershed**											
	i) Water Harvesting	4					4nos	2,62,400			4nos	2,62,400
	ii) Check Dam	4					4nos	2,39,200			4nos	2,39,200
2.	**Umblo Watershed**											
	i) Water Harvesting	4					4nos	2,62,400			4nos	2,62,400
	ii) Check Dam	4					4nos	2,39,200			4nos	2,39,200
3.	**Mynlep Watershed**											
	i) Water Harvesting	2					2nos	1,31,200			2nos	1,31,200
	ii) Check Dam	2					2nos	1,19,600			2nos	1,19,600
	TOTAL	**20**					**20 nos**	**12,54,000**			**20 nos**	**12,54,000**

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
& Additional District Programme Coordinator
DRDA West Jaintia Hills District, Jowai.

Project Director
District Rural Development Agency
West Jaintia Hills District

CHAPTER VI

CAPACITY BUILDING

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

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

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

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

(i) Technical experts in fields required by IWMP

(ii) Past experiences

(iii) Annual Turnover

(iv) Receives funds either from the Central or State Government

(v) Publications

(vi) Not blacklisted by any Govt. organizations

(vii) Audited accounts

(viii) Organizational structure

Table 6.2: Capacity Building activities for the year 2012 – 13 as on …… (Dd/mm/yyyy)*

Capacity building plan (show it for 5 years)

1	2	3	4					5
Project Stakeholders	**Typeof Training/ Capacity Building**	**Agency/Institution to provide training**	**No. of Trainings targeted during each financial year**					**Total**
			1st Year	2nd Year	3rd Year	4th Year	5th Year	
PIAs	Awareness programme	PIA	1	1	1	1		**4**
WDTs	Remote sensing, Gis-based watershed development, ICT	NIRD, NESAC,	1	1	1	1		**4**
UGs	Operation & Maintenance of Assets created	SIRD,SLNA		1	1	1		**3**
SHGs	Foundation course on SHG,Agriculture,Animal Husbandary,Food processing,Handicraft	ICAR,VTC,RRTC SIRD,MRDS	1	1	1			**3**
WCs	Common Guidelines, Maintenance of records, Project Planning	SIRD PIA	3	3	3	3		**12**
Community	NRM, Awareness programme, mobilization & sensitization	PIA	3	3	3	3		**12**

Table 6.3: Information, Education & Communication (IEC) activities for the year 12-13 as on……. (Dd/mm/yyy)*

SL.NO	1	2	3
	Activity	**Executing agency**	**Estimated expenditure (Rs. In lakh)**
1	Awareness	S&WC (T) Division, Jaintia Hills	1.80
2	PRA Exercises	S&WC (T) Division, Jaintia Hills	3.3
3	Exposure visits	S&WC (T) Division, Jaintia Hills	4.50
4	Capacity Building	S&WC (T) Division, Jaintia Hills	18.25

CHAPTER VII

EXPECTED OUTCOME

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	Men	Women	Total	SC	ST	Men	Women	Total	SC	ST	Men	Women	Total
1.	Umsalait	-	16500	9000	7500	16500	-	702	360	342	702	-	16	7	9	16
2.	Thangthring	-	14520	7920	6600	14520	-	318	173	145	318	-	8	3	5	8
3.	Iooksi	-	52800	28800	24000	52800	-	816	423	393	816	-	18	6	12	18
4.	Iongkasaro	-	11880	6480	5400	11880	-	252	143	109	252	-	7	3	4	7
5.	Tongkiad	-	4290	2340	1950	4290	-	69	40	29	69	-	2	2	-	2
6	Saphai A & B	-	66330	36180	30150	66330	-	1287	667	620	1287	-	28	10	18	28
7.	Rudkupli Iawthymme	-	13200	7200	6000	13200	-	231	138	93	231	-	10	5	5	10
9.	Priang	-	11220	6120	5100	11220	-	417	243	174	417	-	10	4	6	10
10.	Umdienling	-	8580	4680	3900	8580	-	567	297	270	567	-	12	5	7	12
Total		-	199320	108720	90600	199320	-	4659	2484	2175	4659	-	111	45	66	111

Table 7.2: Migration Details:

1	2	3	4	5	6	7	8	
Name of Village	**No. of persons migrating**	**No. of days per year of migration**	**Major reason (s) for migrating**	**Distance of destination of migration from the village (Km)**	**Occupation during migration**	**Income from such occupation (Rs. In lakh)**	**For reduced migration identify major activities of IWMP responsible**	
							(a) Strures	**(b) Livelihoods**
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 7.5.2: Status of Drinking water:

1			2			3
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**	
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			
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**
WJH-IWMP - IX	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.

The above table may be substituted by a write up

Table 7.6: Vegetation/ crop related outcomes:

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

1	2	3						4						5					
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
WJH IWMP-IX	Paddy	-	195	-	20	-	3900												
	Maize	-	52	-	15	-	780												
	Ginger	-	38		15		750												
	Turmeric	-	25	-	20	-	500												

- ***** * 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					
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**
WJH-IWMP- IX	Potato	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Cabbage	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Tomato	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Vegetables	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- ***** * 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					
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**
WJH IWMP-IX	Nil																		
Total for the District	Nil																		

- ***** * 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: Availability of fodder:

1	2	3			4		
		Existing area under fodder (ha)			Achievement (ha)		
Name of Project	Duration of Project	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
WJH IWMP-IX	5 Years	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		
		Existing tree cover (ha)			Expected outcome (ha)		
Name of Project	**Duration of Project**	**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**
WJH- IWMP-IX	5 Years	LULC MAP NEESAC Umiam	2012-2013	662 Ha	1343 Ha		

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

Table 7.6.6: Increase/ Decrease in area under horticulture

1	2	3			4		
Name of Project	Duration of Project	Pre project area (ha)			Expected outcome Area (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	ExpectedChange in area under horticulture
WJH-IWMP-IX	5 Years	Field Survey Report	2012-2013	Nil	219 Ha		

*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		
		Preproject area (ha)			Post project area (ha)		
Name of Project	Duration of Project	Source/ Name of report	Year of reference	Area already under fuel-wood	Area under fuel-wood proposed to be covered under IWMP		Expected Change in area under fuel-wood
WJH IWMP-IX	5 Years	Filed Survey Report	2012	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: Details of livestock in the project areas (for fluids please mention in litres, for solids please mention in kgs. and income in Rs.)

2	3	4			5			6			7
Name of the Project	**Type of Animal**	**Pre-Project**			**Mid-term**			**Post-project**			**Remarks**
		No.	**Yield**	**Income**	**No.**	**Yield**	**Income**	**No.**	**Yield**	**Income**	
WJH-IWMP-IX	Cattle	579	28950 Kg	5790000							
	Goat	226	4068 Kg	813600							
	Piggery	758	18950 Kg	3790000							
	Poultry	2896	5792 Kg	1042560							
Total for all projects	4	4459	57760 Kg	11436160							

*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 7.10: Cost effectiveness of structures/ activities*

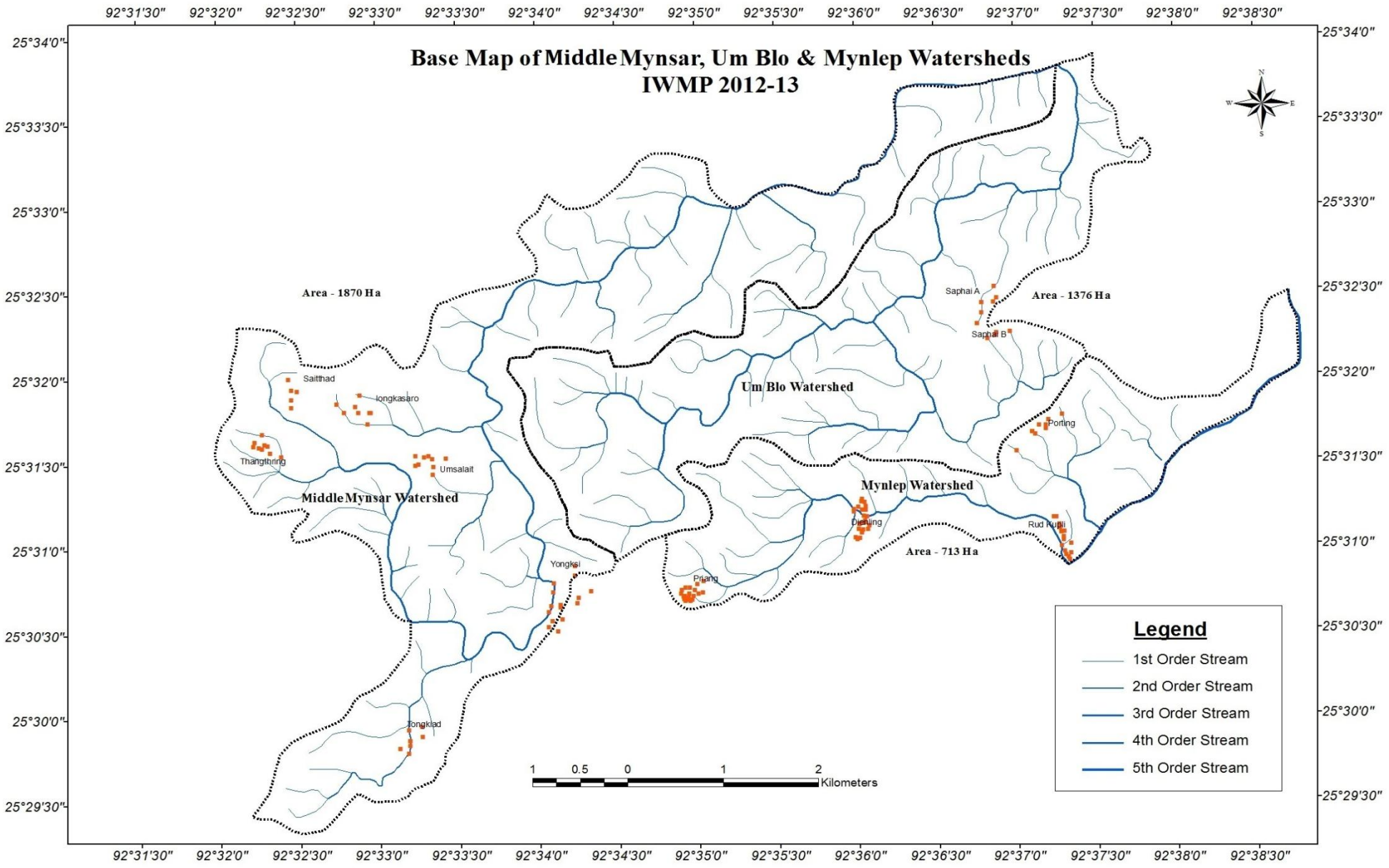
1	2	3	4	5	6	7
District	**Name of project**	**Name of WC**	**Name of structure/activity**	**Estimated cost (Rs. In lakhs)**	**Expected quantifiable benefits (Rs.)**	**Benefit: Cost ratio#**
West Jaintia Hills	WJH-IWMP-IX	Middle Mynsar, Umblo & Mynlep	As per Treatment Plan	353.34	505.2762	1.43

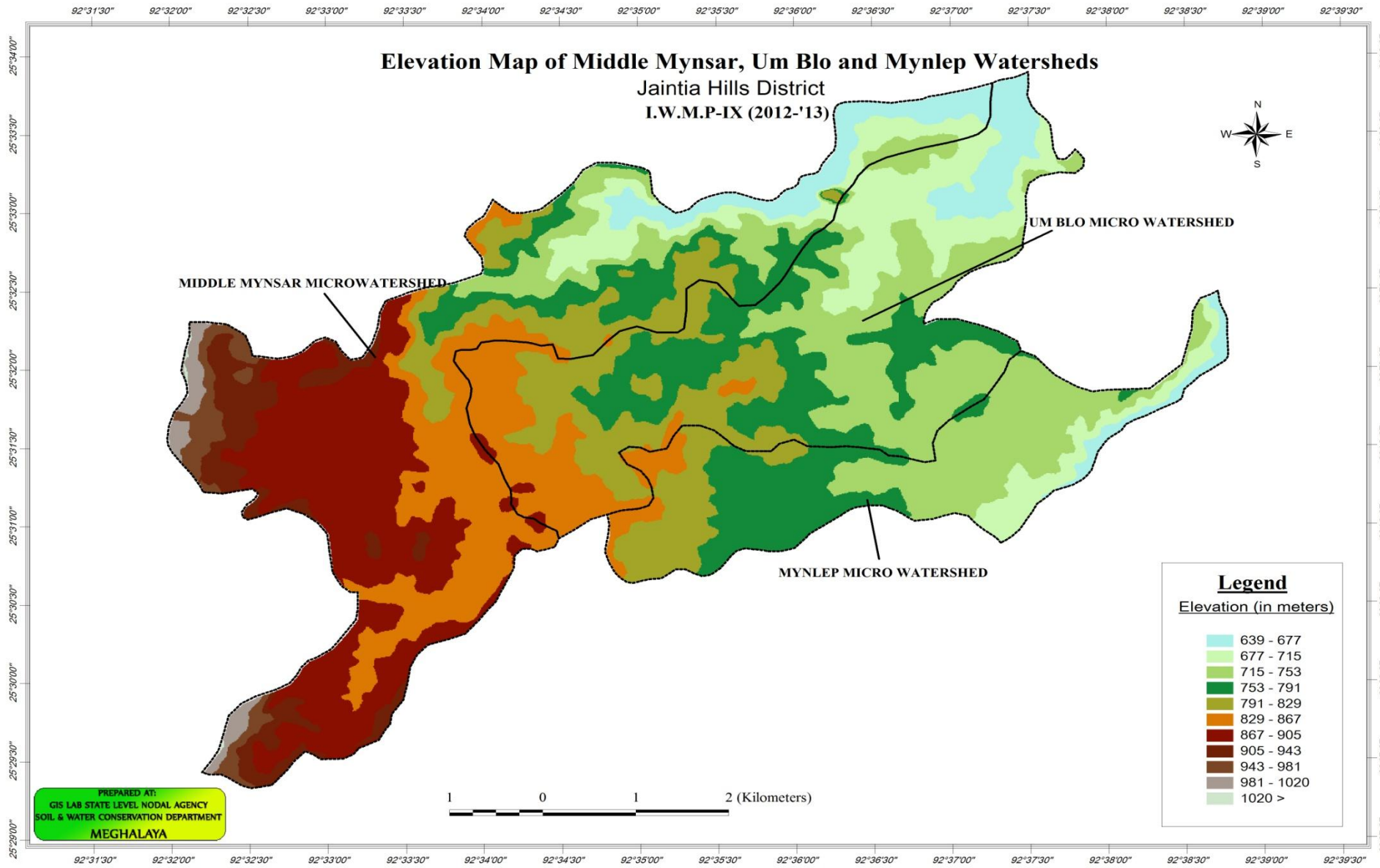
*From column no.2, total no. of State implementing the programme, from column no.3, total no. of District; from column no. 4, no. of projects; from column no. 5, no of WCs, fro column 6, no. of structures/ activities, fro column no. 7 to 10, category-wise# totals may be mentioned at the end of the table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

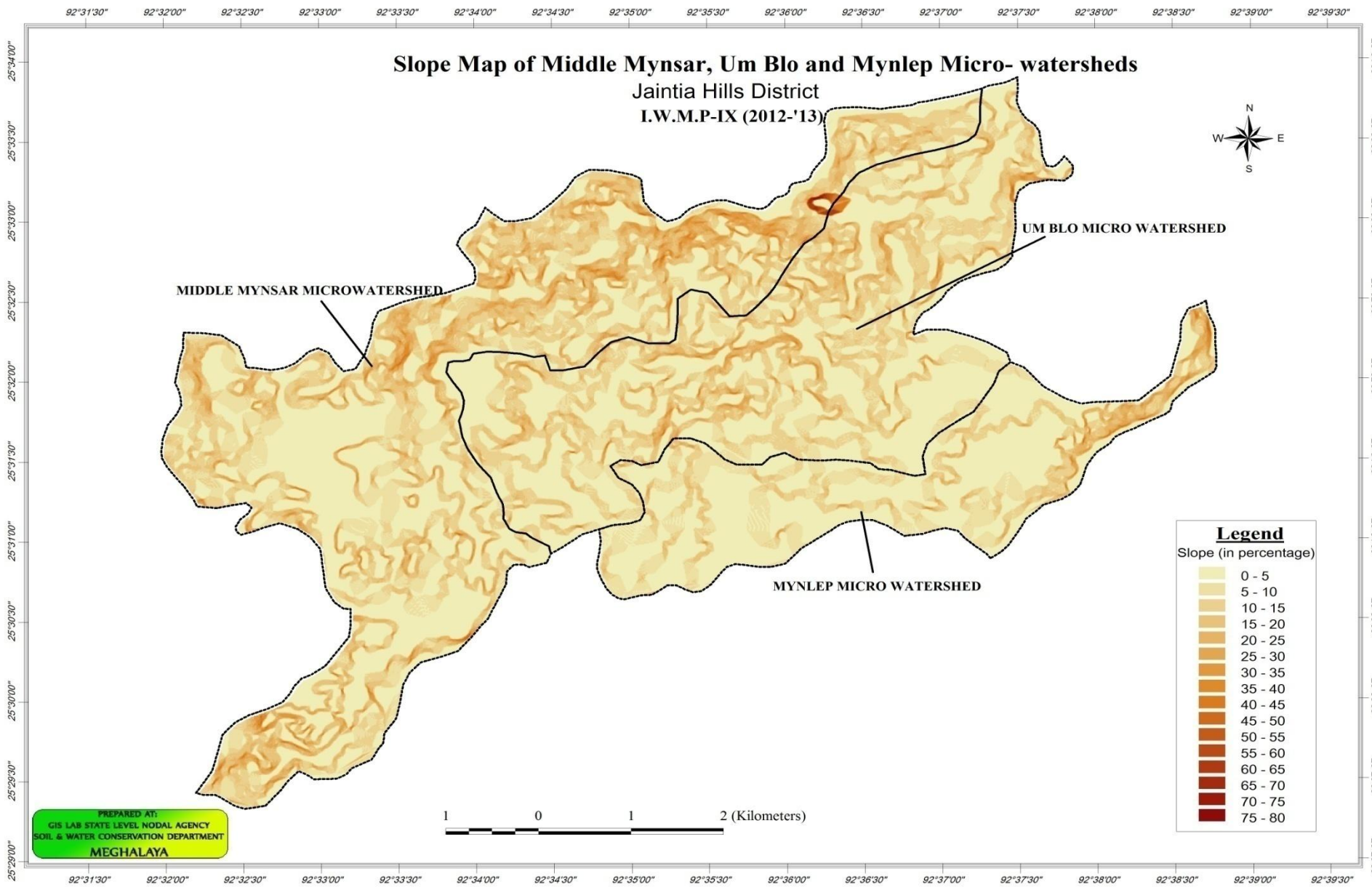
B: C ratio more than 1 – cost effective Less than 1- Not cost effective

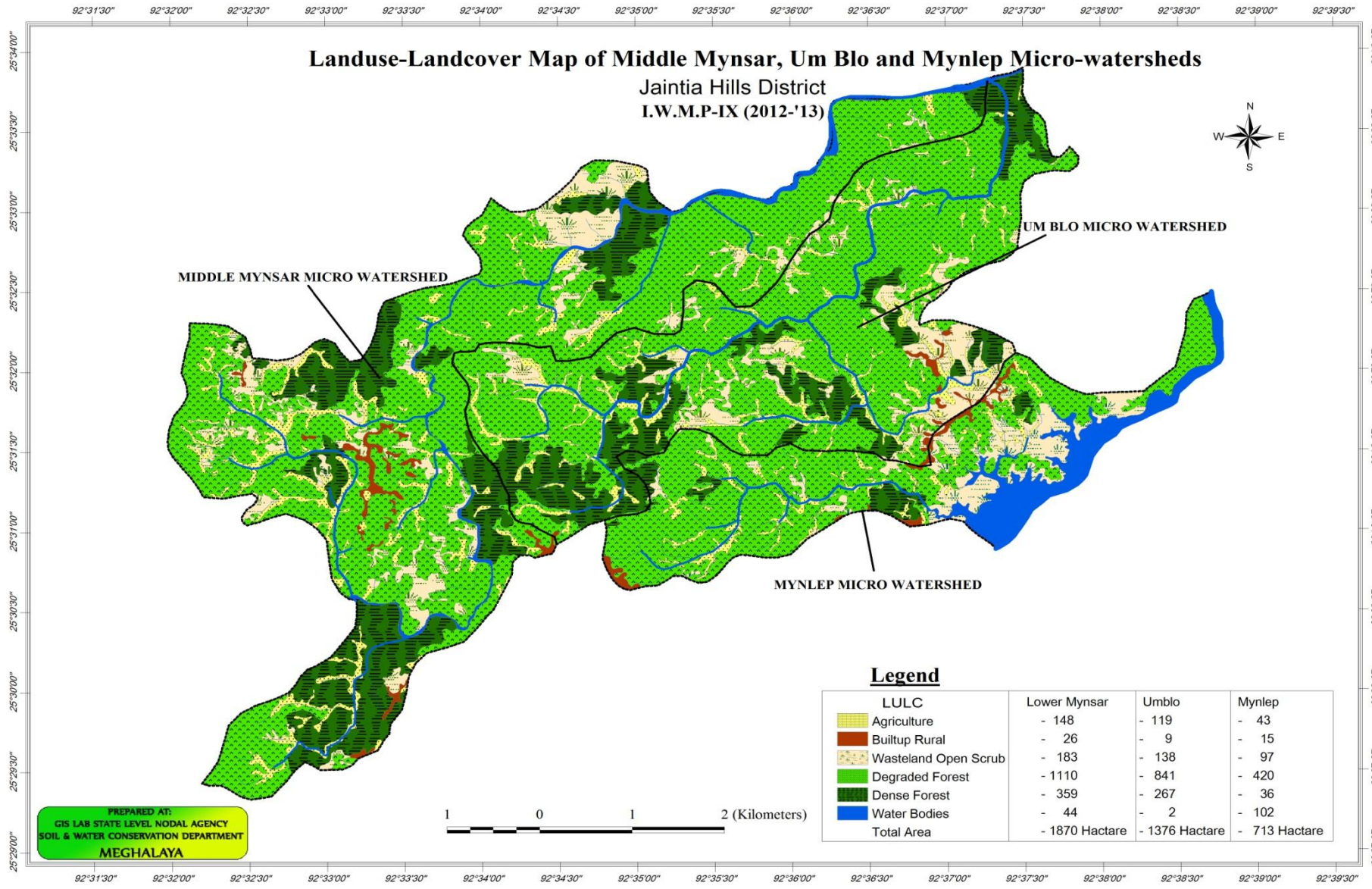
ANNEXURE I

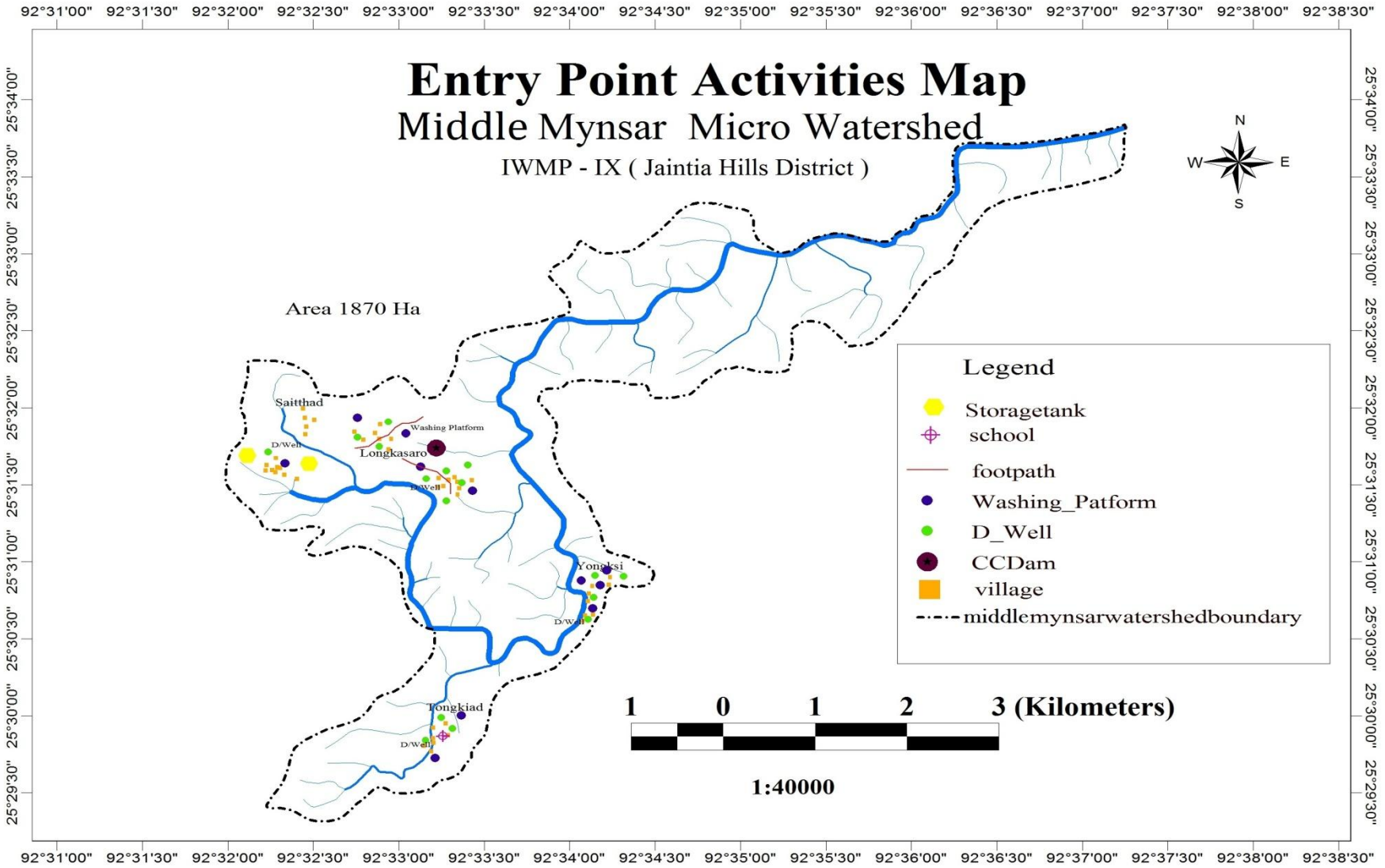
MAPS

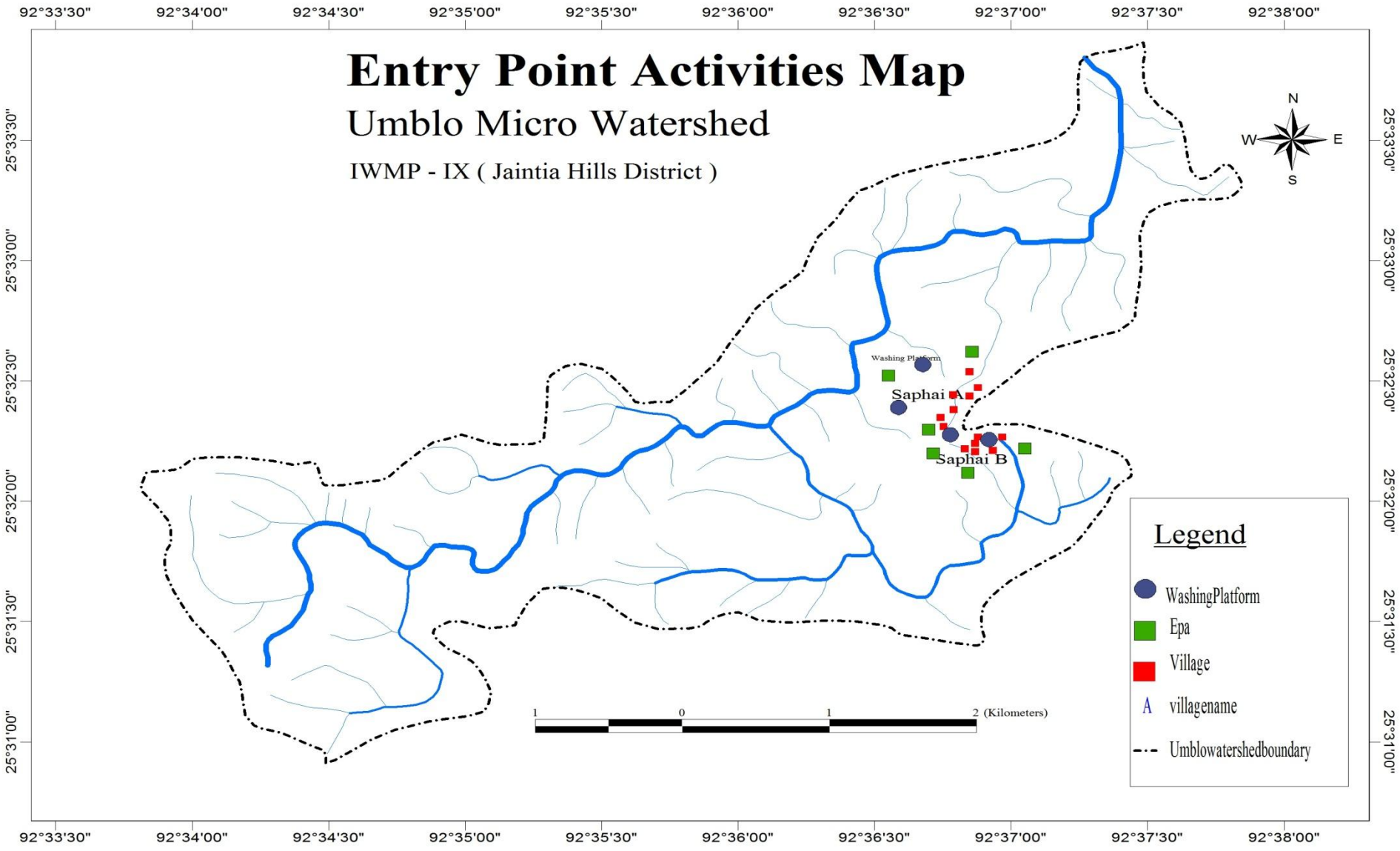

Base Map of Middle Mynsar, Um Blo & Mynlep Watersheds
IWMP 2012-13
92°31'30"
92°32'0"
92°32'30"
92°33'0"
92°33'30"
92°34'0"
92°34'30"
92°35'0"
92°35'30"
92°36'0"
92°36'30"
92°37'0"
92°37'30"
92°38'0"
92°38'30"
25°34'0"
25°33'30"
25°33'0"
25°32'30"
25°32'0"
25°31'30"
25°31'0"
25°30'30"
25°30'0"
25°29'30"
Area - 1870 Ha
Area - 1376 Ha
Area - 713 Ha
Um Blo Watershed
Middle Mynsar Watershed
Mynlep Watershed
Saithad
Iongkasaro
Thangthning
Umsalait
Saphai A
Saphai B
Porling
Dierling
Rud Rubli
Yongksi
Priang
Iongklad
1 0.5 0 1 2
Kilometers
Legend
1st Order Stream
2nd Order Stream
3rd Order Stream
4th Order Stream
5th Order Stream

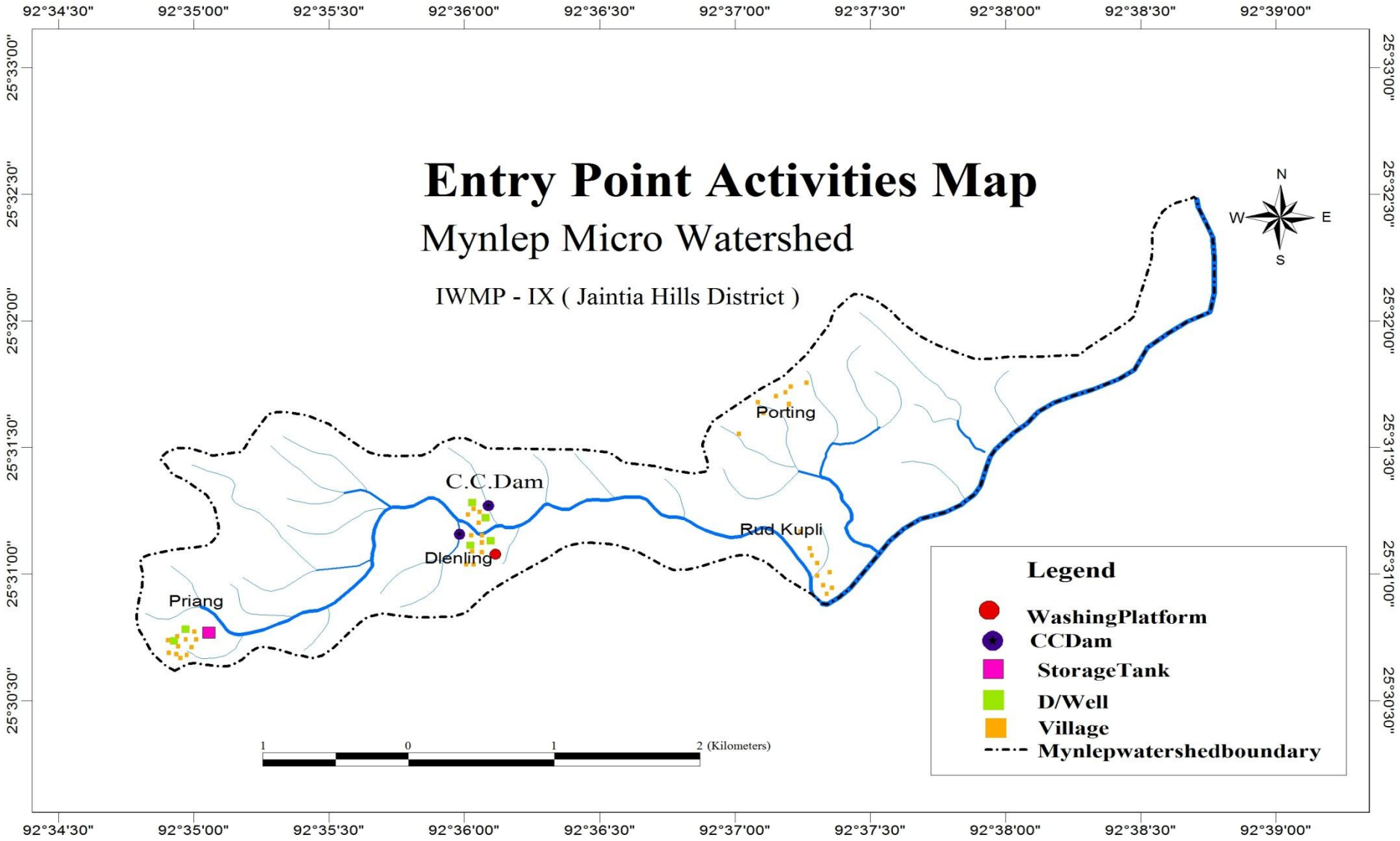

Elevation Map of Middle Mynsar, Um Blo and Mynlep Watersheds
Jaintia Hills District
I.W.M.P-IX (2012-'13)
N
W
E
S
UM BLO MICRO WATERSHED
MIDDLE MYNSAR MICROWATERSHED
MYNLEP MICRO WATERSHED
Legend
Elevation (in meters)
639 - 677
677 - 715
715 - 753
753 - 791
791 - 829
829 - 867
867 - 905
905 - 943
943 - 981
981 - 1020
1020 >
1 0 1 2 (Kilometers)
PREPARED AT:
GIS LAB STATE LEVEL NODAL AGENCY
SOIL & WATER CONSERVATION DEPARTMENT
MEGHALAYA
92°31'30" 92°32'00" 92°32'30" 92°33'00" 92°33'30" 92°34'00" 92°34'30" 92°35'00" 92°35'30" 92°36'00" 92°36'30" 92°37'00" 92°37'30" 92°38'00" 92°38'30" 92°39'00" 92°39'30"
25°34'00" 25°33'30" 25°33'00" 25°32'30" 25°32'00" 25°31'30" 25°31'00" 25°30'30" 25°30'00" 25°29'30" 25°29'00"

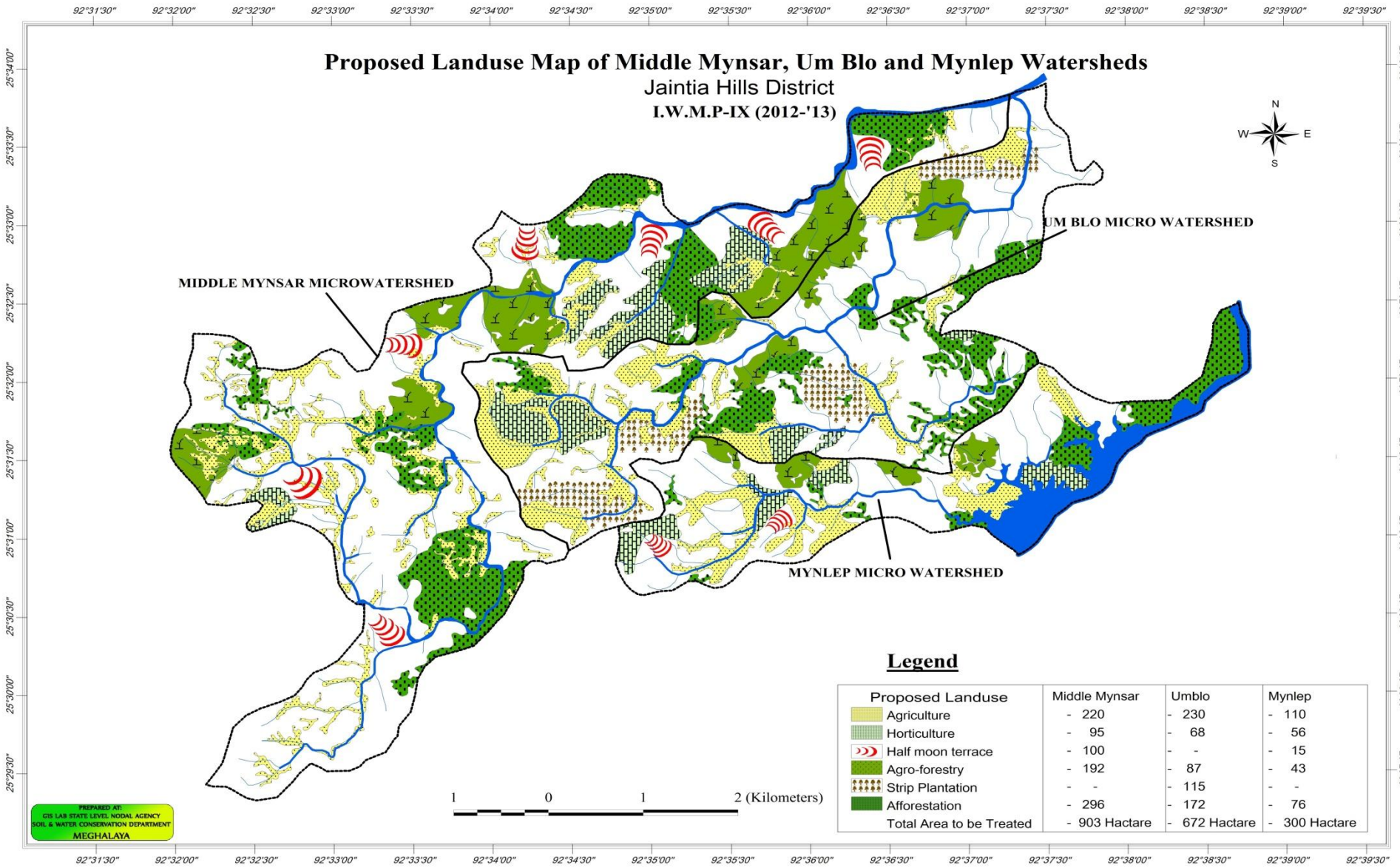

Slope Map of Middle Mynsar, Um Blo and Mynlep Micro- watersheds
Jaintia Hills District
I.W.M.P-IX (2012-'13)
N
W
E
S
UM BLO MICRO WATERSHED
MIDDLE MYNSAR MICROWATERSHED
MYNLEP MICRO WATERSHED
Legend
Slope (in percentage)
0 - 5
5 - 10
10 - 15
15 - 20
20 - 25
25 - 30
30 - 35
35 - 40
40 - 45
45 - 50
50 - 55
55 - 60
60 - 65
65 - 70
70 - 75
75 - 80
1 0 1 2 (Kilometers)
PREPARED AT:
GIS LAB STATE LEVEL NODAL AGENCY
SOIL & WATER CONSERVATION DEPARTMENT
MEGHALAYA
92°31'30" 92°32'00" 92°32'30" 92°33'00" 92°33'30" 92°34'00" 92°34'30" 92°35'00" 92°35'30" 92°36'00" 92°36'30" 92°37'00" 92°37'30" 92°38'00" 92°38'30" 92°39'00" 92°39'30"
25°34'00" 25°33'30" 25°33'00" 25°32'30" 25°32'00" 25°31'30" 25°31'00" 25°30'30" 25°30'00" 25°29'30" 25°29'00"


Landuse-Landcover Map of Middle Mynsar, Um Blo and Mynlep Micro-watersheds
Jaintia Hills District
I.W.M.P-IX (2012-'13)
N
W
E
S
UM BLO MICRO WATERSHED
MIDDLE MYNSAR MICRO WATERSHED
MYNLEP MICRO WATERSHED
Legend
LULC | Lower Mynsar | Umblo | Mynlep
Agriculture - 148 - 119 - 43
Builtup Rural - 26 - 9 - 15
Wasteland Open Scrub - 183 - 138 - 97
Degraded Forest - 1110 - 841 - 420
Dense Forest - 359 - 267 - 36
Water Bodies - 44 - 2 - 102
Total Area - 1870 Hectare - 1376 Hectare - 713 Hectare
1 0 1 2 (Kilometers)
PREPARED AT:
GIS LAB STATE LEVEL NODAL AGENCY
SOIL & WATER CONSERVATION DEPARTMENT
MEGHALAYA
92°31'30" 92°32'00" 92°32'30" 92°33'00" 92°33'30" 92°34'00" 92°34'30" 92°35'00" 92°35'30" 92°36'00" 92°36'30" 92°37'00" 92°37'30" 92°38'00" 92°38'30" 92°39'00" 92°39'30"
25°34'00" 25°33'30" 25°33'00" 25°32'30" 25°32'00" 25°31'30" 25°31'00" 25°30'30" 25°30'00" 25°29'30" 25°29'00"


Entry Point Activities Map
Middle Mynsar Micro Watershed
IWMP - IX (Jaintia Hills District)
Area 1870 Ha
Saitthad
D/Well
Washing Platform
Longkasaro
D/Well
Yongksi
D/Well
Tongkiad
D/Well
Legend
Storagetank
school
footpath
Washing_Patform
D_Well
CCDam
village
middlemynsarwatershedboundary
1 0 1 2 3 (Kilometers)
1:40000
N
W
E
S
92°31'00" 92°31'30" 92°32'00" 92°32'30" 92°33'00" 92°33'30" 92°34'00" 92°34'30" 92°35'00" 92°35'30" 92°36'00" 92°36'30" 92°37'00" 92°37'30" 92°38'00" 92°38'30"
25°34'00" 25°33'30" 25°33'00" 25°32'30" 25°32'00" 25°31'30" 25°31'00" 25°30'30" 25°30'00" 25°29'30"


Entry Point Activities Map
Umblo Micro Watershed
IWMP - IX (Jaintia Hills District)
92°33'30"
92°34'00"
92°34'30"
92°35'00"
92°35'30"
92°36'00"
92°36'30"
92°37'00"
92°37'30"
92°38'00"
25°33'30"
25°33'00"
25°32'30"
25°32'00"
25°31'30"
25°31'00"
N
W
E
S
Washing Platform
Saphai A
Saphai B
1
0
1
2 (Kilometers)
Legend
WashingPlatform
Epa
Village
A villagename
Umblowatershedboundary


Entry Point Activities Map
Mynlep Micro Watershed
IWMP - IX (Jaintia Hills District)
92°34'30"
92°35'00"
92°35'30"
92°36'00"
92°36'30"
92°37'00"
92°37'30"
92°38'00"
92°38'30"
92°39'00"
25°33'00"
25°32'30"
25°32'00"
25°31'30"
25°31'00"
25°30'30"
N
W
E
S
Porting
C.C.Dam
Rud Kupli
Dlenling
Priang
1
0
1
2 (Kilometers)
Legend
WashingPlatform
CCDam
StorageTank
D/Well
Village
Mynlepwatershedboundary



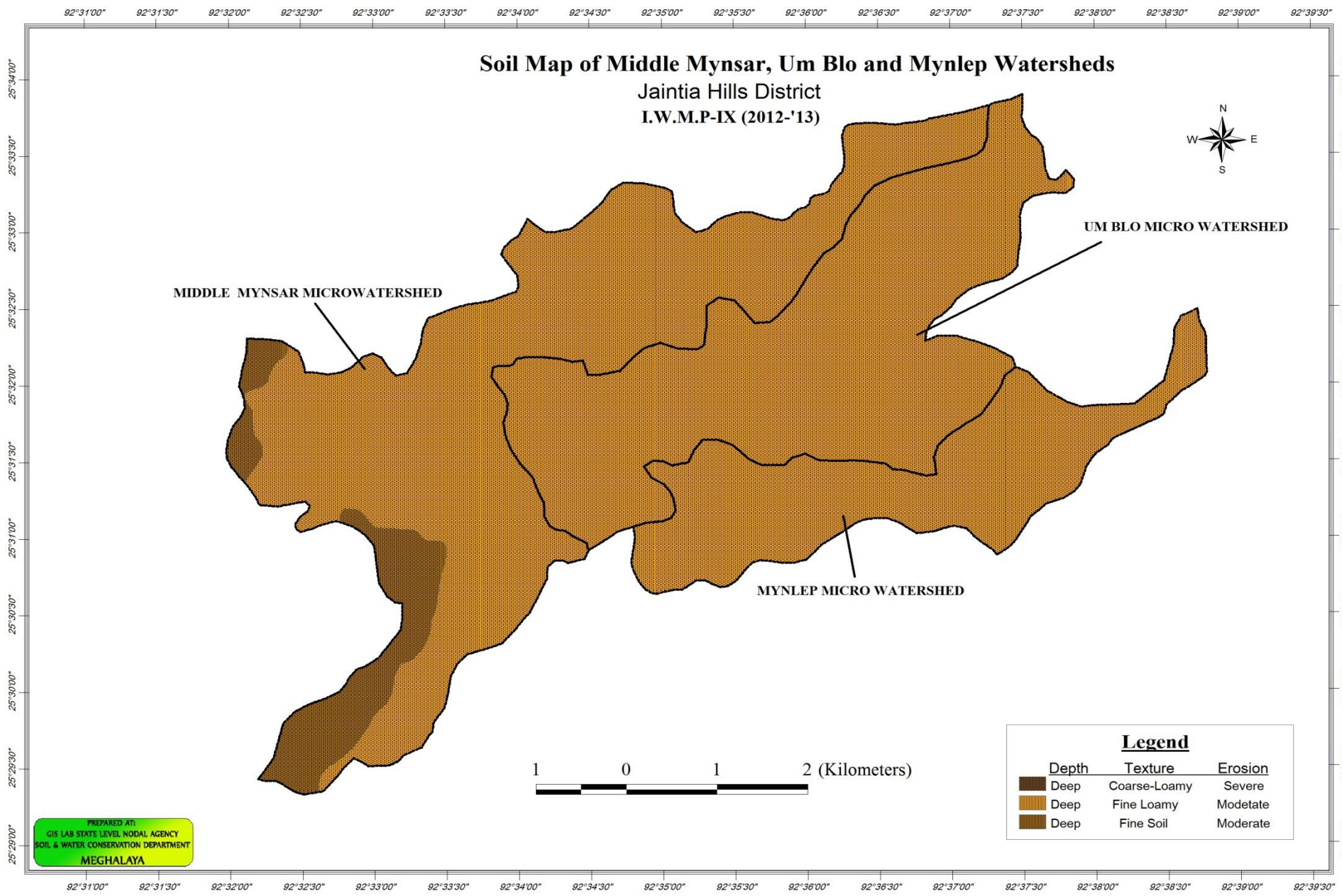
Legend

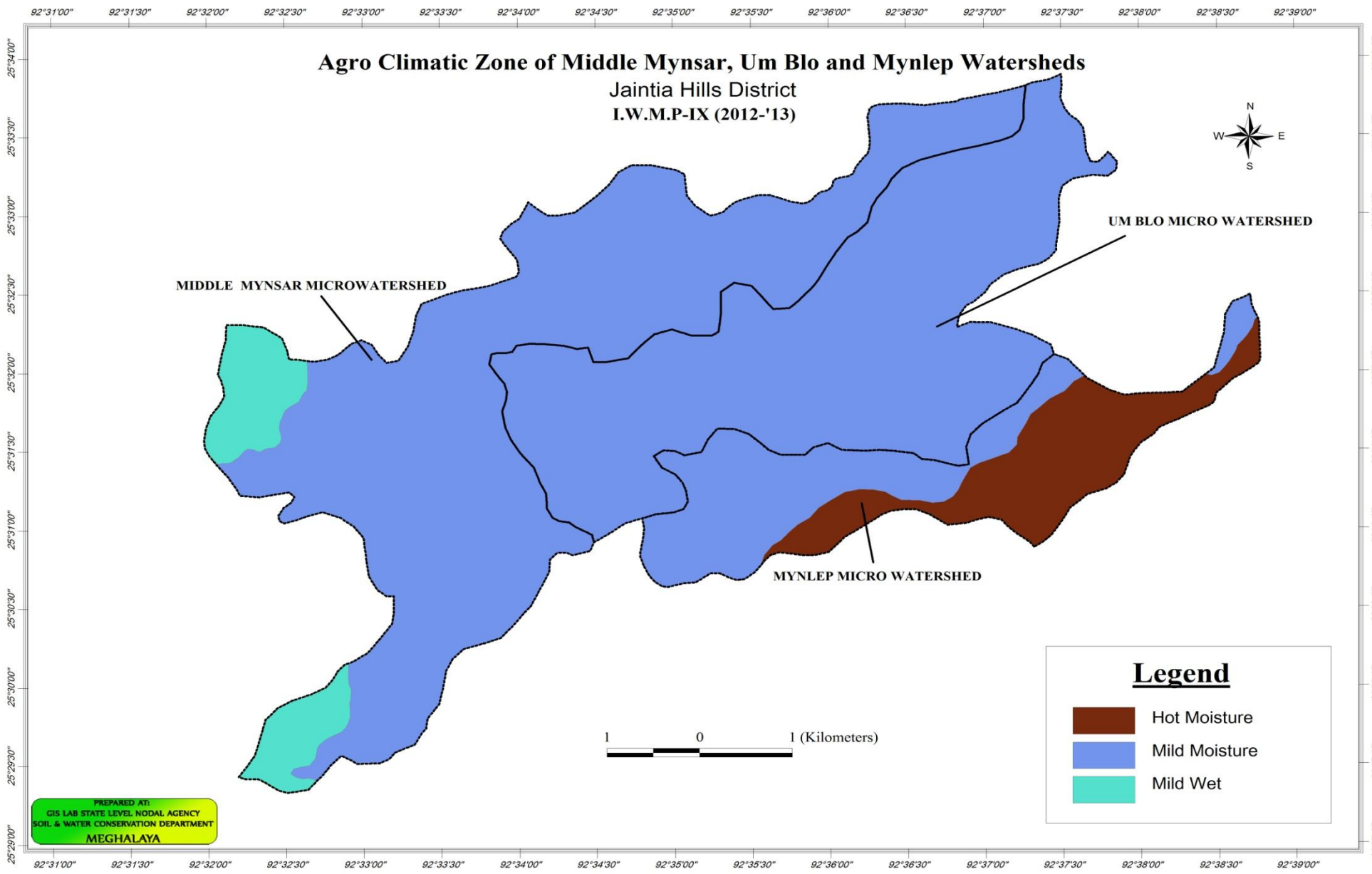
Proposed Landuse	Middle Mynsar	Umblo	Mynlep
Agriculture	- 220	- 230	- 110
Horticulture	- 95	- 68	- 56
Half moon terrace	- 100	- -	- 15
Agro-forestry	- 192	- 87	- 43
Strip Plantation	- -	- 115	- -
Afforestation	- 296	- 172	- 76
Total Area to be Treated	- 903 Hactare	- 672 Hactare	- 300 Hactare

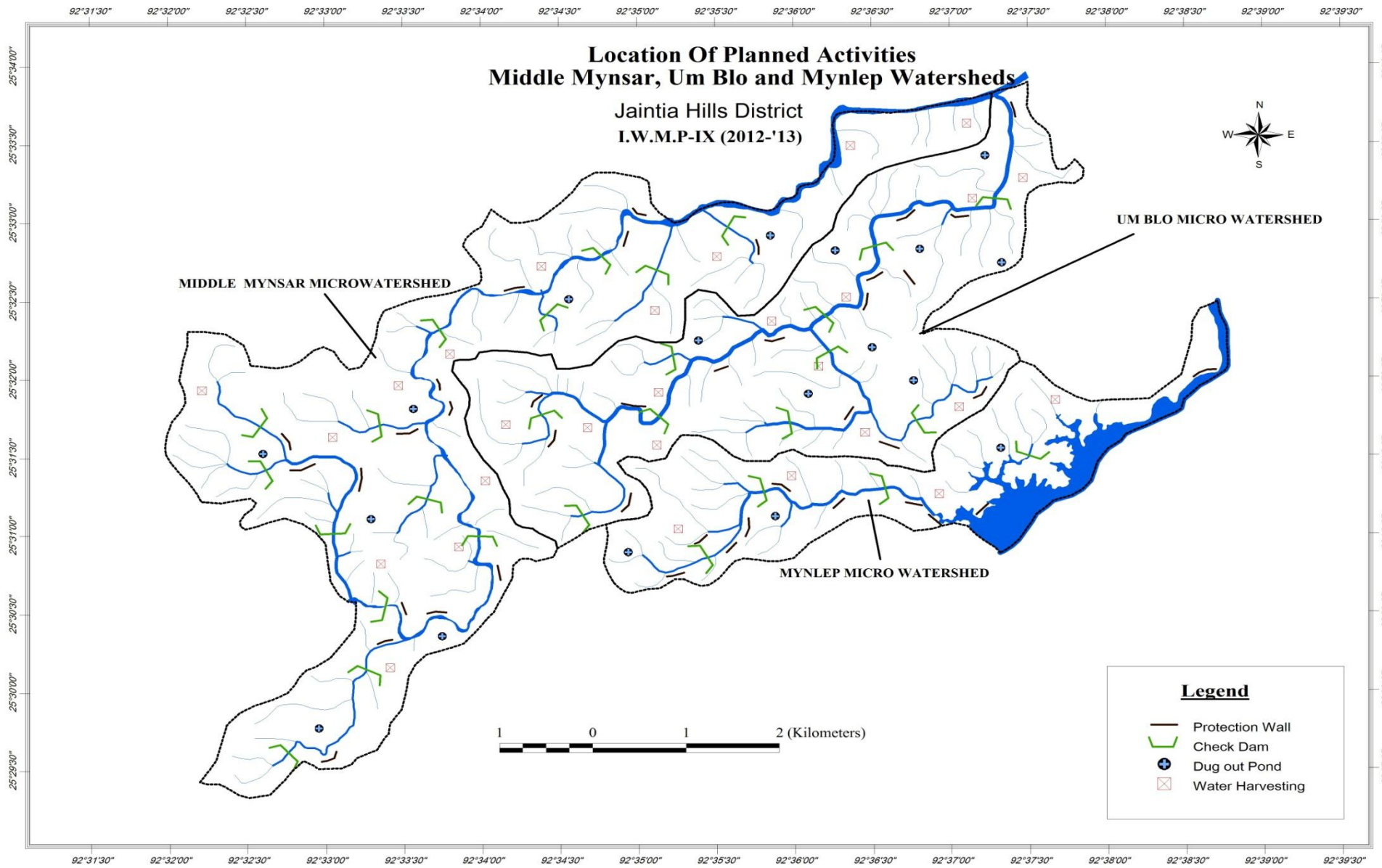
Soil Map of Middle Mynsar, Um Blo and Mynlep Watersheds

Jaintia Hills District

I.W.M.P-IX (2012-'13)




Agro Climatic Zone of Middle Mynsar, Um Blo and Mynlep Watersheds
Jaintia Hills District
I.W.M.P-IX (2012-'13)
92°31'00" 92°31'30" 92°32'00" 92°32'30" 92°33'00" 92°33'30" 92°34'00" 92°34'30" 92°35'00" 92°35'30" 92°36'00" 92°36'30" 92°37'00" 92°37'30" 92°38'00" 92°38'30" 92°39'00"
25°34'00" 25°33'30" 25°33'00" 25°32'30" 25°32'00" 25°31'30" 25°31'00" 25°30'30" 25°30'00" 25°29'30" 25°29'00"
N
W
E
S
UM BLO MICRO WATERSHED
MIDDLE MYNSAR MICROWATERSHED
MYNLEP MICRO WATERSHED
1 0 1 (Kilometers)
Legend
Hot Moisture
Mild Moisture
Mild Wet
PREPARED AT:
GIS LAB STATE LEVEL NODAL AGENCY
SOIL & WATER CONSERVATION DEPARTMENT
MEGHALAYA


Location Of Planned Activities
Middle Mynsar, Um Blo and Mynlep Watersheds
Jaintia Hills District
I.W.M.P-IX (2012-'13)
N
W
E
S
UM BLO MICRO WATERSHED
MIDDLE MYNSAR MICROWATERSHED
MYNLEP MICRO WATERSHED
1 0 1 2 (Kilometers)
Legend
Protection Wall
Check Dam
Dug out Pond
Water Harvesting
92°31'30"
92°32'00"
92°32'30"
92°33'00"
92°33'30"
92°34'00"
92°34'30"
92°35'00"
92°35'30"
92°36'00"
92°36'30"
92°37'00"
92°37'30"
92°38'00"
92°38'30"
92°39'00"
92°39'30"
25°34'00"
25°33'30"
25°33'00"
25°32'30"
25°32'00"
25°31'30"
25°31'00"
25°30'30"
25°30'00"
25°29'30"

ANNEXURE II

SOCIO-ECONOMIC SURVEY DETAILS

Socio-Economic Profile: Socio- Economic Survey was conducted in all the 10 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 10 villages of WJH-IWMP-IX (2012-2013)

Sl No.	Villages	No.of family	Total Population	Sex				Agri-workers	Literacy		Occupation
				Male A	Female A	Boys M	Girls M		Male	Female	
1.	Priang	139	726	204	217	173	132	297	54	76	
2	Umsalait	234	1543	375	338	451	379	516	305	277	
3	Thangthring	106	662	146	132	197	187	253	195	187	
4	Iooksi	272	1549	372	405	392	380	508	279	264	
5	Iongkasaro	84	493	98	111	152	132	198	153	133	
6.	Tongkiad	23	111	27	21	29	34	50	2	5	
7.	Rudkupli Iawthymme	70	447	81	78	142	146	167	68	19	
8	Umdienling	189	1119	269	263	302	285	396	94	159	
9	Saphai A & Saphai B	429	2759	674	690	683	712	889	511	555	
	Total-	1396	9409	2246	2255	2521	2387	3274	1661	1675	

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

MODEL NORMS PER HECTARE FOR AGRO-HORTICULTURE

WITH CITRUS FRUIT

(INTEGRATED WATERSHED MANAGEMENT PROGRAMME)

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.

MODEL NORMS PER HECTARE FOR AGRO-HORTICULTURE WITH TEMPERATE FRUIT (INTEGRATED WATERSHED MANAGEMENT PROGRAMME)

…….

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)

……..

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 NORM FOR EARTHEN PERIPHERAL BUND WITH LIVE VEGETATION PER METRE

(INTEGRATED WATERSHED MANAGEMENT PROGRAMME)

[Estimate as per Meghalaya PWD SoR for Road & Bridge Works (other than NH) for Jaintia Hills for the year 2012 - 2013]

Top Width	=	1.00	m
Bottom Width	=	1.20	m
Height	=	1.00	m

1/2.1 Earthwork in excavation, etc in ordinary soil.

A. By Manual Means

i. Ordinary Soil

$$1.00 \times \frac{1.00 + 1.20}{2} \times 1.00 = 1.10 \ m^3$$

@ Rs. 98.00 /m^3 = Rs. 107.80

2 Supplying and planting of live hedges on toe of bunds with local shrub / cutting, etc per Rm (L. S. Amount) = Rs. 12.00

Total = Rs. 119.80

Say = Rs. 120.00

(Rupees one hundred twenty only)

COST NORM FOR EARTHEN CONTOUR BUND

(INTEGRATED WATERSHED MANAGEMENT PROGRAMME)

[Estimate as per Meghalaya PWD SoR for Road & Bridge Works (other than NH) for Jaintia Hills for the year 2012 - 2013]

Top Width	=	0.50	m				
Bottom Width	=	1.00	m				
Height	=	0.70	m				
Spacing	=	20.00	m				
Total Length	=	4	x	36.50	=	146.00	m

1/2.1 Earthwork in excavation, etc in ordinary soil.

A. By Manual Means

i. Ordinary Soil

$$146.00 \times \frac{0.50 + 1.00}{2} \times 0.70 = 76.65 \ m^3$$

@			=		
Rs.	98.00	/m^3	Rs.	7,511.70	
			=		
		Total	**Rs.**	**7,511.70**	
			=		
		Say	**Rs.**	**7,500.00**	

(Rupees seven thousand five hundred only)

COST NORM FOR IMPROVEMENT OF EXISTING PADDY FIELD

(INTEGRATED WATERSHED MANAGEMENT PROGRAMME)

[Estimate as per Meghalaya PWD SoR for Road & Bridge Works (other than NH) for Jaintia Hills for the year 2012 - 2013]

1/2.1 Earthwork in excavation, etc in ordinary soil.

A. By Manual Means

i. Ordinary Soil

Marginal Bunds:

$$20.80 \times \frac{0.40 + 0.60}{2} \times 0.50 = 5.20 \ m^3$$

Shoulder Bunds:

$$6 \times 20.80 \times \frac{0.30 + 0.45}{2} \times 0.40 = 18.72 \ m^3$$

Land Levelling (L. S) = 20.00 m^3

Total = 43.92 m^3

@ Rs. 98.00 /m^3 = Rs. 4,304.16

Total = Rs. 4,304.16

Say = Rs. 4,300.00

(Rupees four thousand three hundred only)

COST NORM FOR LOOSE BOULDER BUNDS

(INTEGRATED WATERSHED MANAGEMENT PROGRAMME)

[Estimate as per Meghalaya PWD SoR for Road & Bridge Works (other than NH) for Jaintia Hills for the year 2012 - 2013]

Top Width	=	0.40	m
Bottom Width	=	1.00	m
Height	=	0.85	m
Length	=	9.60	m

1/4.5

Providing regular dry stone masonry wall with hammer dressed or blunt chissel dressed stones of heavy sections (size not less than 25 cm x 25 cm x 30 cm long) with proper key stone (size not less than 25 cm x 25 cm x 75 cm long) including carriage of stones within 200 m complete.

B. With New Stones

$$9.60 \times \frac{0.40 + 1.00}{2} \times 0.85 = 5.71 \ m^3$$

			=		
@ Rs.	1,313.00	$/m^3$	Rs.		7,499.86
			=		
		Total	**Rs.**		**7,499.86**
			=		
		Say	**Rs.**		**7,500.00**

(Rupees seven thousand five hundred only)

COST NORM FOR RUN - OFF DISPOSAL CHANNEL PER METRE

(INTEGRATED WATERSHED MANAGEMENT PROGRAMME)

[Estimate as per Meghalaya PWD SoR for Road & Bridge Works (other than NH) for Jaintia Hills for the year 2012 - 2013]

Top Width	=	1.00	m
Bottom Width	=	0.70	m
Depth	=	1.00	m

1/2.1 Earthwork in excavation, etc in ordinary soil.

A. By Manual Means

i. Ordinary Soil

$$1.00 \times \frac{1.00 + 0.70}{2} \times 1.00 = 0.85 \quad m^3$$

@			=	
Rs.	98.00	$/m^3$	Rs.	83.30
			=	
	Total		**Rs.**	**83.30**
			=	
	Say		**Rs.**	**83.00**

(Rupees eighty three only)

COST NORMS FOR HALF MOON TERRACES

(INTEGRATED WATERSHED MANAGEMENT PROGRAMME)

[Estimate as per Meghalaya PWD SoR for Road & Bridge Works (other than NH) for Jaintia Hills for the year 2012 - 2013]

Terrace Width	=	1.10	m					
Terrace Height	=	1.10	m					
Terrace Length	=	1.10	m					
Spacing of Boxes	=	10.00	x	8.70	=	87.00	m^2	
No. of Boxes / Ha	=	10000	/	87.00	=	114.94		

1/2.1 Earthwork in excavation, etc in ordinary soil.

A. By Manual Means

i. Ordinary Soil

114.94	x	1/2	x	1.10	x	1.10	x	1.10	=	76.49	m^3			
									@			=		
									Rs.	98.00	$/m^3$	Rs.		7,496.44
												=		
										Total		**Rs.**		**7,496.44**
												=		
										Say		**Rs.**		**7,500.00**

(Rupees seven thousand five hundred only)

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

…….

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.

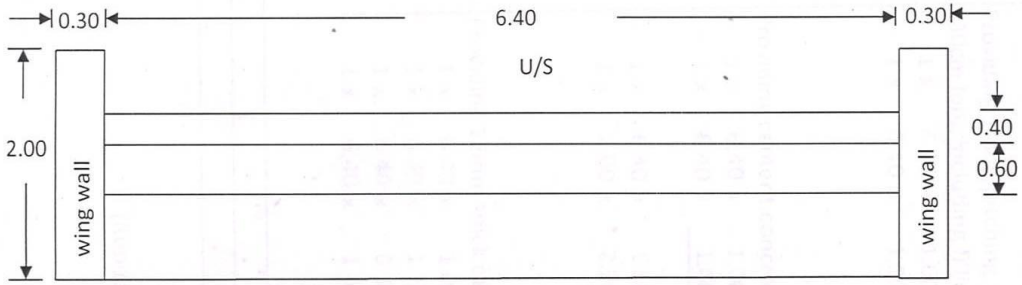
Estimate for construction of CC.Dam of _____ At_____
Under_____(IWMP).
(As per PWD Schedule of Rates for Road other than National Highway-2012-2013)

(The below calculations are done in MS Excel , the decimals not shown are also being accounted)

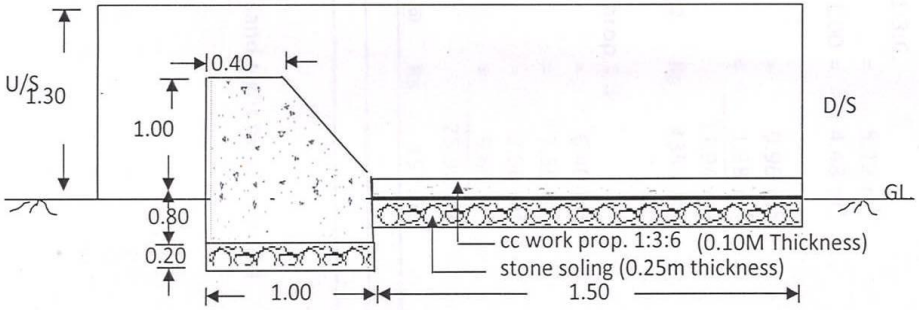
Sl.No./ Item.No.	Particulars	Amount
1/5.1A	Earthwork in excavation for foundation etc.complate. Dam & w/walls: 1 x 6.40 x 1.00 x 1.00 = 6.40 m³ 1 x 6.40 x 1.50 x 0.25 = 2.40 m³ 2 x 2.00 x 0.30 x 1.00 = 1.20 m³ - 10.00 m³ @ Rs 118 /m³ = Rs	1,180.00
2/5.12	Providing stone pitching with one man size boulders not less than 25cmx25cm x30cm long including filling etc. 1 x 6.40 x 1.00 x 0.20 = 1.28 m³ 1 x 6.40 x 1.50 x 0.25 = 2.40 m³ 3.68 m³ @ Rs 704 /m³ = Rs	2,590.72
3/6.4(A) (ii)	Providing cement concrete work in prop.1:3:6. 1 x 6.40 x 1.00 x 0.80 = 5.12 m³ 1 x 6.40 x (1.00 + 0.40)/2 x 1.00 = 4.48 m³ 1 x 6.40 x 1.50 x 0.10 = 0.96 m³ 1 x 2.00 x 2.30 x 0.30 = 1.38 m³ 11.94 m³ @ Rs 4353 /m³ = Rs	51,974.82
4/9.1(ii)	Providing 12mm thick cement plastering prop.1:3. 1 x 6.40 x 1.00 = 6.40 m² 1 x 6.40 x 1.15 = 7.36 m² 1 x 6.40 x 0.40 = 2.56 m² 1 x 6.40 x 1.50 = 9.60 m² 25.92 m² @ Rs 157 /m² = Rs	4,069.44
	Total= Rs	**59,814.98**
	Say Rs	**59,800.00**

(Rupess: Fiftynine thousand eight hundred only)

CC DAM (IWMP)



PLAN D/S



SECTION AT A-A.

C.C. DAM

* All dimensions are in metre
* Drawings are not to scale.

Estimates For construction of Retaining Wall
Under IWMP

[Rates as per PWD SOR for Road & Bridge Works (other than National Highway Works) for the year 2012-2013]

1/4.1 A) Earthwork in Excavation for structures etc.

14.00 x 1.00 x 0.35 = 4.90 m^3 @ ₹ 118.00 /m^3 = ₹ 578.20

2/4.4 Stone masonry work in cement mortar etc.

14.00 x 1.00 x 0.25 = 3.50 m^3

14.00 x $\frac{0.40 + 1.00}{2}$ x 1.10 = 10.78 m^3

14.28 m^3 @ ₹ 2517 /m^3 = ₹ 35,942.76

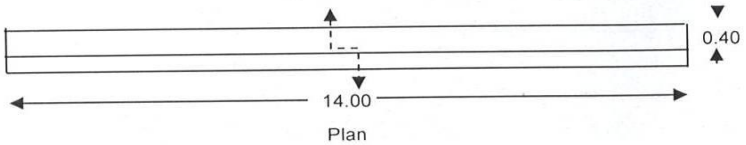
3/4.3 Providing concrete in open foundations, prop. 1:3:6.

14.00 x 1.00 x 0.15 = 2.10 m^3 @ ₹ 4353 /m^3 = ₹ 9,141.30

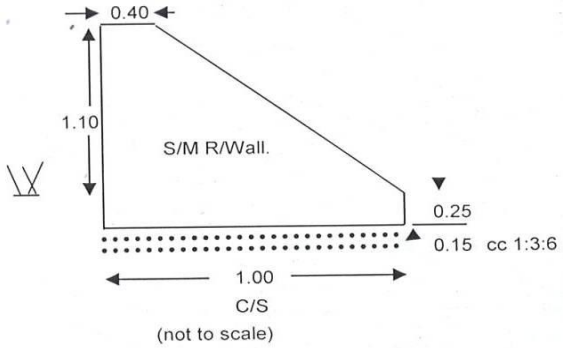
Total = ₹ 45,662.26

Say = ₹ 45,660.00

(Rupees forty five thousand six hundred sixty only)



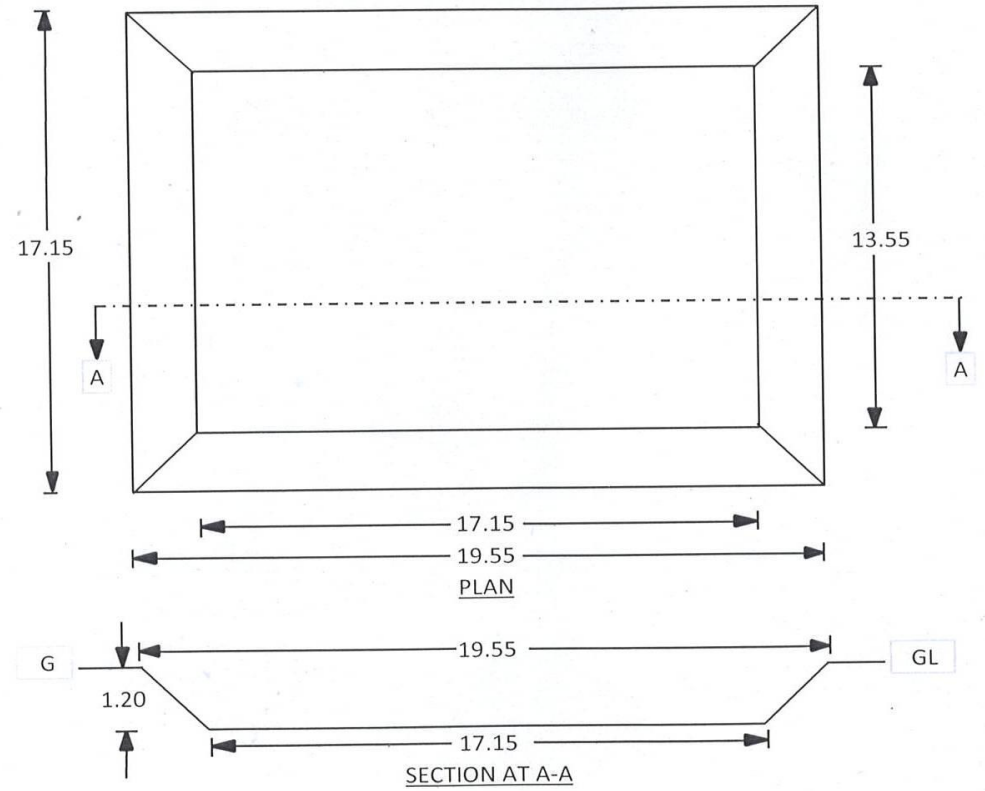
Plan



C/S

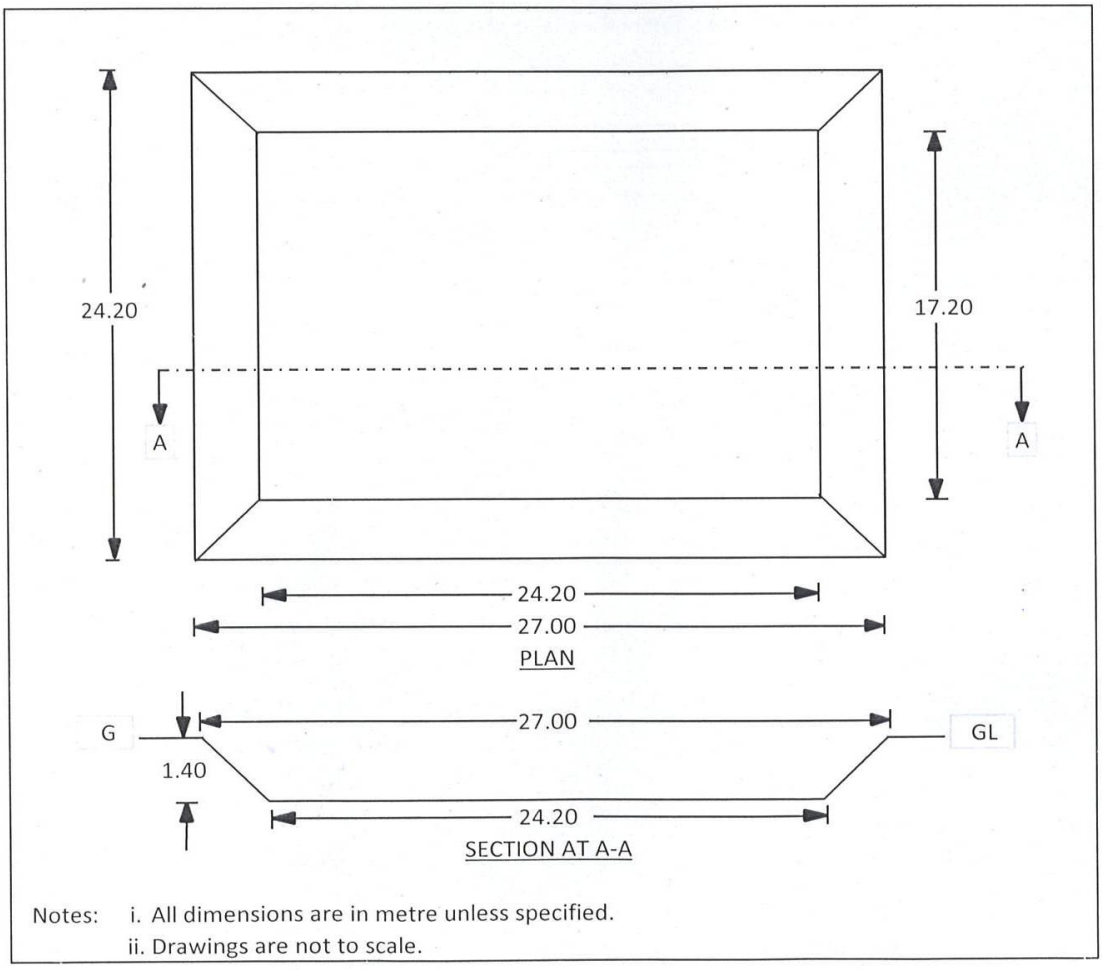
(not to scale)

ESTIMATION FOR CONSTRUCTION OF FARM POND AS PER MEGHALAYA PWD SCHEDULE OF RATES FOR ROAD & BRIDGE WORKS (OTHER THAN NH WORKS FOR JAINTIA HILLS) FOR THE YEAR 2012 - 2013				
Sl. No. / Item No.	Particulars of Work			Amount
1/2.1	Excavation in soil in hilly areas including cutting and trimming of side slopes and disposing of excavated earth with all lift upto 1.5 m and a lead upto 20 m as per drawing. A. By Manual Means i. Ordinary Soil $\frac{(19.55 \times 15.95) + (17.15 \times 13.55)}{2} \times 1.20 = 326.523\ m^3$			
		@ Rs. 98.00 $/m^3$	=	Rs 31,999.25
		Say	=	**Rs 32,000.00**
(Rupees thirty two thousand only)				



Notes: i. All dimensions are in metre unless specified.
ii. Drawings are not to scale.

ESTIMATION FOR CONSTRUCTION OF WATER HARVESTING POND AS PER MEGHALAYA PWD SCHEDULE OF RATES FOR ROAD & BRIDGE WORKS (OTHER THAN NH WORKS FOR JAINTIA HILLS) FOR THE YEAR 2012 - 2013		
Sl. No. / Item No.	Particulars of Work	Amount
1/2.1	Excavation in soil in hilly areas including cutting and trimming of side slopes and disposing of excavated earth with all lift upto 1.5 m and a lead upto 20 m as per drawing. A. By Manual Means i. Ordinary Soil $\frac{(27.00 \times 20.00) + (24.20 \times 17.20)}{2} \times 1.40 = 669.368\ m^3$ @ Rs. 98.00 /m^3 =	Rs 65,598.06
	Say =	**Rs 65,600.00**
(Rupees sixty five thousand six hundred only)		



Notes: i. All dimensions are in metre unless specified.
ii. Drawings are not to scale.

ANNEXURE IV
MoA, SUB-COMMITTEE DETAILS ETC

ANNEXURE –II

This is to certify that JH-IWMP-_____IX._____I has been selected based on the following criteria:-

a) That the watershed has a population of Scheduled Tribe 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 watershed has 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 village including the weaker section, women and the landless.

Secretary
Tong Klad
B.P.O : Iowksi
Ellaka Railang

Secretary
Tong Klad
B.P.O : Iowksi
Ellaka Railang

RESOLUTIONS OF THE VILLAGE COMMITEE/DORBAR SHNONG

A general meeting of the village Tong Kiad was held on the 20-5-2013 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 village.

That we will extended all over 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 village.

That the village have got land more than 65. Hectares to be treated under various Soil & Water Conservation works.

That the village 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 village including the weaker section, women and the landless.

Lyngdoh Shnong
Tong Klad
B.P.O : Iowkai
Elaka Rallang

Secretary
Tong Klad
B.P.O : Iowkai
Elaka Rallang

OFFICE OF THE DORBAR SHNONG TONG KIAD VILLAGE.

Jaintia Hills, Meghalaya- 793150

No Objection Certificate.

This is to certify that the Dorbar Shnong Tong Kiad village has no objection to the Soil & Water Con servation Department of Meghalaya to Implement the JH-IWMP- IX Middle Mynsi Micro Watershed within the Area of Elaka Raliang.

Myngban Shnong
Tong Kiad
B.R.O : Iowksi
Elaka Raliang

Secretary
Tong Kiad
B.R.O : Iowksi
Elaka Raliang

ANNEXURE –II

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

a) That the watershed has a population of Scheduled Tribe 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 watershed has 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 village including the weaker section, women and the landless.

Secretary
Jongkasaro Village
Jaintia Hills

Rangbah Shnong
Jongkasaro Village
Jaintia Hills

OFFICE OF THE DORBAR SHNONG JONGKASARO VILLAGE.

Jaintia Hills, Meghalaya- 793150.

No Objection Certificate.

This is to certify that the Dorbar Shnong JONGKASARO village has no objection to the Soil & Water Con servation Department of Meghalaya to Implement the JH-IWMP- IX Middle Mynsar Micro Watershed within the Area of Jongkasaro.

H. Shadap
Secretary
Jongkasaro Village
Jaintia Hills

Rangbah Shneng
Jongkasaro Village
Jaintia Hills

ANNEXURE –II

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

a) That the watershed has a population of Scheduled Tribe 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 watershed has 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 village including the weaker section, women and the landless.

Rangbah Shnong
Iawthymme Village
Elaka Raliang

L. Lyngdoh
Secretary
Iawthymme Village

OFFICE OF THE DORBAR SHNONG Iawthymme VILLAGE.

Jaintia Hills, Meghalaya- 793150

No Objection Certificate.

This is to certify that the Dorbar Shnong Iawthymme village has no objection to the Soil & Water Con servation Department of Meghalaya to Implement the JH-IWMP- IX Myniep Micro Watershed within the Area of Elaka Raliang.

Rangban Shnong
Iawthymme Village
Elaka Raliang

L. Lyngdoh
Secretary
Iawthymme Village

ANNEXURE –II

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

a) That the watershed has a population of Scheduled Tribe 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 watershed has 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 village including the weaker section, women and the landless.

Secretary
Shnong Umsalait

B. Tar
Pagbah Shnong
Umsalait

OFFICE OF THE DORBAR SHNONG Umsalait VILLAGE.

Jaintia Hills, Meghalaya- 793150.

No Objection Certificate.

This is to certify that the Dorbar Shnong Umsalait village has no objection to the Soil & Water Con servation Department of Meghalaya to Implement the JH-IWMP- IX Middle Mynsar Micro Watershed within the Area of Umsalait.

Secretary
Shnong Umsalait

B. Tary
Rangbah Shnong
Umsalait

ANNEXURE – I

Certified that the village Priang falls under JH-IWMP- IX under Laskein C&RD Block and Possesses lands more than 170 Hectares which may be taken up for treatment with various developmemtal Scheme under the Integrated Watershed Management Programme (IWMP) by the Soil & Water Conservation Department.

Secretary
Dorbar Shnong
Priang
Elaka Raliang

Rangbah Shnong
Priang
Elaka Raliang

ANNEXURE -II

This is to certify that JH-IWMP-J-H-IX, I has been selected based on the following criteria:-

a) That the watershed has a population of Scheduled Tribe 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 watershed has 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 village including the weaker section, women and the landless.

Secretary
Dorbar Shnong
Priang
Elaka Raliang

Rangbah Shnong
Priang
Elaka Raliang

RESOLUTIONS OF THE VILLAGE COMMITEE/DORBAR SHNONG

A general meeting of the village Priang was held on the 8-5-2013 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 village.

That we will extended all over 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 village.

That the village have got land more than 170 Hectares to be treated under various Soil & Water Conservation works.

That the village 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 village including the weaker section, women and the landless.

Secretary
Dorbar Shnong
Priang
Elaka Raliang

Rangbah Shnong
Priang
Elaka Raliang

OFFICE OF THE DORBAR SHNONG Priang VILLAGE.

Jaintia Hills, Meghalaya- 793150.

No Objection Certificate.

This is to certify that the Dorbar Shnong Priang village has no objection to the Soil & Water Con servation Department of Meghalaya to Implement the JH-IWMP- IX Myntep Micro Watershed within the Area of Elaka Raliang.

Secretary
Dorbar Shnong
Priang
Elaka Raliang

Raingain Shnong
Priang
Elaka Raliang

ANNEXURE - I

Certified that the village Thangthrin falls under JH-IWMP-JH IX under Laskein C&RD Block and Possesses lands more than 220. Hectares which may be taken up for treatment with various developmemtal Scheme under the Integrated Watershed Management Programme (IWMP) by the Soil & Water Conservation Department.

Secretary Shnong
Thangthring Village

Rangbah Shnong
Thangthring Village

ANNEXURE -II

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

a) That the watershed has a population of Scheduled Tribe 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 watershed has 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 village including the weaker section, women and the landless.

Secretary Shnong
Thangshring Village

Rangbah Shnong
Thangshring Village

RESOLUTIONS OF THE VILLAGE COMMITEE/DORBAR SHNONG

A general meeting of the village Thangthring was held on the 13-5-2013 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 village.

That we will extended all over 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 village.

That the village have got land more than 220 Hectares to be treated under various Soil & Water Conservation works.

That the village 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 village including the weaker section, women and the landless.

Secretary Shnong
Thangthring Village

Rangbah Shnong
Thangthring Village

OFFICE OF THE DORBAR SHNONG THANG THRING. VILLAGE.

Jaintia Hills, Meghalaya- 793150.

No Objection Certificate.

This is to certify that the Dorbar Shnong THANG THRING. village has no objection to the Soil & Water Con servation Department of Meghalaya to Implement the JH-IWMP- 18 Middle Myntdu Micro Watershed within the Area of Thangthring.

Secretary Shnong
Thangthring Village

Rangbah Shnong
Thangthring Village

ANNEXURE – I

Certified that the village (Tooksi) Kyan Mynsar falls under JH-IWMP- IX under Laskein C&RD Block and Possesses lands more than 800 Hectares which may be taken up for treatment with various developmemtal Scheme under the Integrated Watershed Management Programme (IWMP) by the Soil & Water Conservation Department.

Secretary Shnong
Kyanmynsar Thiongmoo
Tooksi (A) Elaka Raliang

Headman
Kyanmynsar Thiongmoo
Jaintia Hills
Elaka Raliang

ANNEXURE –II

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

a) That the watershed has a population of Scheduled Tribe 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 watershed has 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 village including the weaker section, women and the landless.

Headman
Kyanmynsar Thiongmoo
Jaintia Hills
Elaka Raliang

Secretary Shnong
Kyanmynsar Thiongmoo
Ionkai (A) Elaka Raliang

RESOLUTIONS OF THE VILLAGE COMMITEE/DORBAR SHNONG

A general meeting of the village Kyan Mynsaw was held on the 11-5-2013 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 village.

That we will extended all over 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 village.

That the village have got land more than 800 Hectares to be treated under various Soil & Water Conservation works.

That the village 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 village including the weaker section, women and the landless.

Headman
Kyanmynsar Thlongmoo
Jaintia Hills
Elaka Raliang

Secretary Shnong
Kyanmynsar Thlongmoo
Jowai (A) Elaka Raliang

OFFICE OF THE DORBAR SHNONG Kyan Mynsar Thlongmoo VILLAGE.

Jaintia Hills, Meghalaya- 793150.

No Objection Certificate.

This is to certify that the Dorbar Shnong Kyan Mynsar- Thlongmoo village has no objection to the Soil & Water Con servation Department of Meghalaya to Implement the JH-IWMP- 12 Middle Mynsar Micro Watershed within the Area of Elaka Raliang.

Secretary Shnong
Kyanmynsar Thlongmoo
Iokasi (A) Elaka Raliang

Headman
Kyanmynsar Thlongmoo
Jaintia Hills
Elaka Raliang

ANNEXURE - I

Certified that the village Umdiengdieng falls under JH-IWMP-IX under Laskein C&RD Block and Possesses lands more than 130 Hectares which may be taken up for treatment with various developmemtal Scheme under the Integrated Watershed Management Programme (IWMP) by the Soil & Water Conservation Department.

R Sunnes
Rangbah Shnong
Umdiengdieng

Secretary
Shnong Umdiengdieng

ANNEXURE -II

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

a) That the watershed has a population of Scheduled Tribe 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 watershed has 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 village including the weaker section, women and the landless.

Rangbah Shnong
Umdiengling

Secretary

RESOLUTIONS OF THE VILLAGE COMMITEE/DORBAR SHNONG

A general meeting of the village Umdienling was held on the 21-5-2013 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 village.

That we will extended all over 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 village.

That the village have got land more than 130 Hectares to be treated under various Soil & Water Conservation works.

That the village 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 village including the weaker section, women and the landless.

Rangbah Shnong
Umdienling

Secretary
Shnong Umdienling

OFFICE OF THE DORBAR SHNONG Umdiengliang VILLAGE.

Jaintia Hills, Meghalaya- 793150.

No Objection Certificate.

This is to certify that the Dorbar Shnong Umdiengliang village has no objection to the Soil & Water Con-servation Department of Meghalaya to Implement the JH-IWMP- IX Mynlyp Micro Watershed within the Area of Elaka Raliang.

Secretary
Shnong Umdiengliang

ANNEXURE - I

Certified that the village Saphai falls under JH-IWMP- IX under Lankein I C&RD Block and Possesses lands more than 1005 Hectares which may be taken up for treatment with various developmemtal Scheme under the Integrated Watershed Management Programme (IWMP) by the Soil & Water Conservation Department.

Headman
Saphai Village
Elaka Raliang

Secretary
Shnong Saphai

ANNEXURE -II

This is to certify that JH-IWMP-___/X_____ has been selected based on the following criteria:-

a) That the watershed has a population of Scheduled Tribe 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 watershed has 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 village including the weaker section, women and the landless.

Headman
Saphai Village
Elaka Raliang

Shnong Saphai

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Secretary
Shnong Saphai

RESOLUTIONS OF THE VILLAGE COMMITEE/DORBAR SHNONG

A general meeting of the village Sophai was held on the 16. May. 2013 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 village.

That we will extended all over 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 village.

That the village have got land more than 1005 Hectares to be treated under various Soil & Water Conservation works.

That the village 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 village including the weaker section, women and the landless.

Headman
Sophai Village
Elaka Rulung

Secretary
Shnong Sophai

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OFFICE OF THE DORBAR SHNONG Saphai VILLAGE.

Jaintia Hills, Meghalaya- 793150.

No Objection Certificate.

This is to certify that the Dorbar Shnong Saphai village has no objection to the Soil & Water Con servation Department of Meghalaya to Implement the JH-IWMP- IX Umbir Micro Watershed within the Area of Elaka Raliang.

Headman
Saphai Village
Elaka Raliang

Shnong Saphai

Secretary
Shnong Saphai

PRA EXERCISES UNDER WJH-IWMP-IX

AWARENESS PROGRAMME UNDER WJH-IWMP-IX