

RI-BHOI DISTRICT

UNDER JIRANG C&RD BLOCK

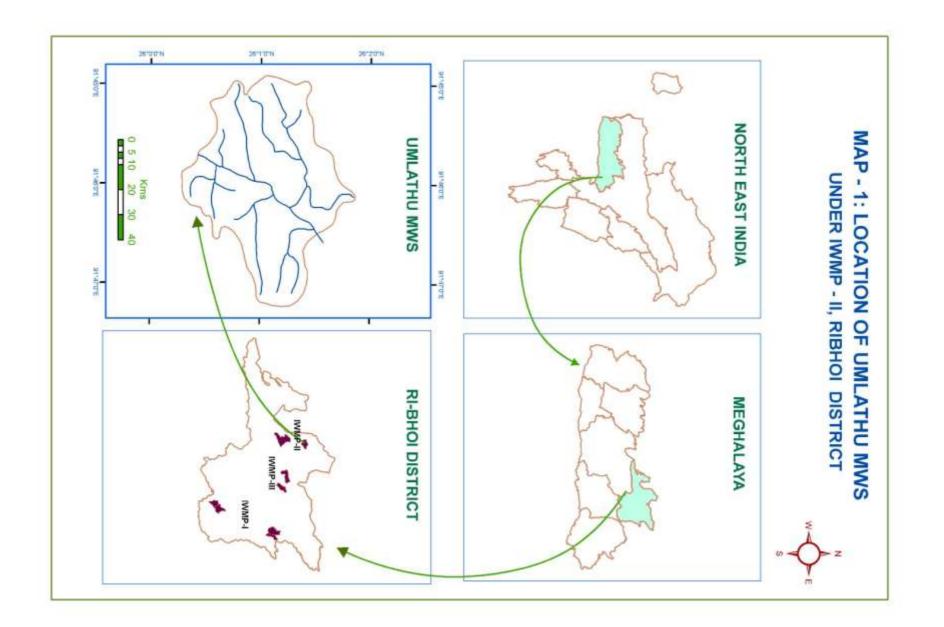
INTEGRATED WATERSHED MANAGEMENT PROJECT - II (2009-2010)

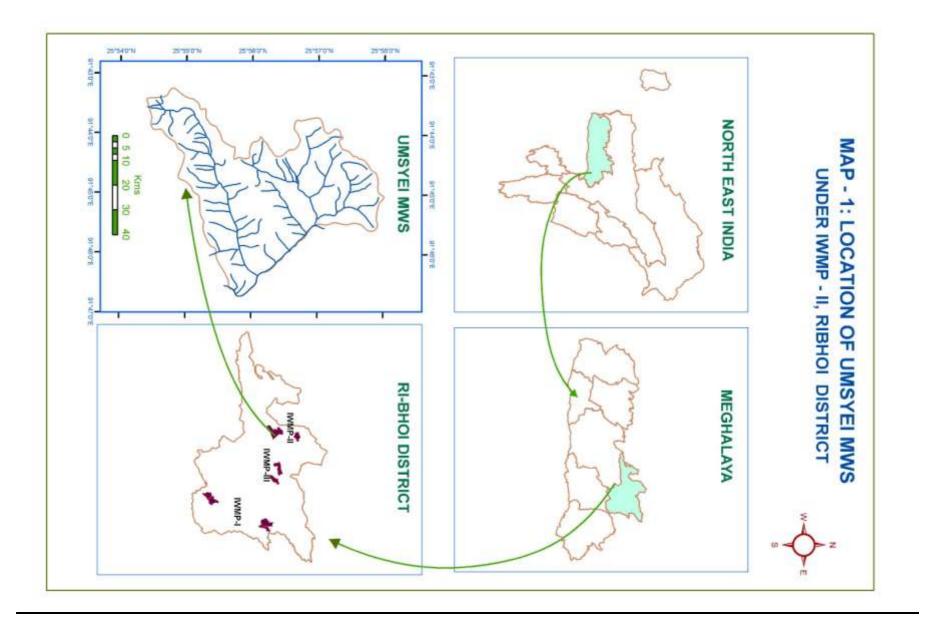
Detail Project Report of RB-IWMP-II(UMLATHU & UMSYEI WATERSHED)

SOIL & WATER CONSERVATION DEPARTMENT RI-BHOI DISTRICT



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SUMMARY

Name of the Sate	:	Meghalaya
Name of the District	:	Ri Bhoi District
Name of the C&RD Block	:	Umling
Name of the Villages :	:	(i) Old Tasku (ii) Lailad rim (iii) Lailad jingkieng (iv)Umlathu (v)Pynker (vi)Pahamjula
		(vii)Pillingku
Name of the Project	:	Ri Bhoi – IWMP – II
Total Geographical Area	:	2361 На
Total Treatment Area	:	1000 Ha
Total Project Cost	:	150 lakhs
Project Duration	:	5 Years
Project Implementing Agency	:	Soil & Water Conservation Ri Bhoi Division, Nongpoh.

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CHAPTER I

INTRODUCTION AND BACKGROUND

1.1 Project Background:

The Umlathu and Umsyei Watershed (IWMP-II) project is located in Jirang C&RD Block, Ri Bhoi District of Meghalaya. Consisting of two microwatersheds, the Project area is drained by the Umsyei and Umlathu Stream flowing in a south to north direction. The total area is 2361 Ha. with 1000 Ha to be treated under the Integrated Watershed Management Programme (IWMP).

The Project area is located at a distance of about 55 km from Nongpoh the District Head Quarter and about 135 km from Shillong the State Capital. A total of seven villages are covered under the project. These are –

- 1. Old Tasku 5. Pahamjula
- 2. Lailad rim 6. Pynker
- 3. Lailad jingkieng 7. Pillingku
- 4. Umlathu

1.2 Micro-watershed Information:

The Sub-watershed code is 3B2A1a2l for Umsyei and 3B1c7a1f for Umlathu as codified by the North East Space Application Centre (NESAC). The total area of the micro-watershed is 2361 Ha., with 1000 hectares to be treated under the Integrated Watershed Management Programme (IWMP).

1.3 Need and Scope for Watershed Development:

The Sub-watershed 3B2A1a2l and 3B1c7a1f falls under the Medium Priority category as per the prioritization of watersheds by the North East Space Application Centre (NESAC). Located on the Northern aspect sloping towards Assam the 7 villages do have road connectivity. There are 127 nos of households in Umsyei Watershed and 165 nos of households in Umlathu Watershed. Jhum cultivation is still practiced by most of the inhabitants of these villages on the slopes. Even though the area receives ample rainfall during the monsoons, there is acute shortage of water during the dry seasons and the villagers have to travel long distances for fetching water even for domestic use.

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

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

i. MGNREGS

- ii. Border Area Development Programme (BADP)
- iii. Total Sanitation Campaign (TSC)
- iv. Swarnjayanti Gram Swarozgar Yojana (SGSY)
- v. Indira Awas Yojana (IAY)

CHAPTER II BASIC INFORMATION OF THE PROJECT AREA

2.1 Location:

The Project area is located within the area of Raid Nongkhlaw Syiemship for Umsyei Watershed and Raid Marwet for Umlathu Watershed under Jirang C&RD Block of Ri Bhoi District. It is situated at a distance of about 55 km from Nongpoh the district Head Quarter and about 110 km from Shillong which is also the State Capital. The geographical location is between 91^0 43' to 91^0 47'E Longitude and 25^0 54' to 25^0 58' N Latitude for Umsyei Watershed; 91^0 45' to 91^0 47' E Longitude and 26^0 to 26^0 2' N Latitude for Umlathu Watershed. There are 7 villages within the Watershed which are as

follows -	Umsyei Watershed	Umlathu Watershed				
	1. Old Tasku	4. Pahamjula		7.	Umlathu	
	2. Lailad rim	5.	Pynker			
	3. Lailad jingkieng	6.	Pillingku			

Physiography:

The physiography of the micro-watershed is moderately undulating. The altitude ranges from a minimum of 300m to a high of 560m for Umlathu Watershed and 200m to 660m for Umsyei watershed above the mean sea level. In the lower reaches (valley lands) the slope ranges from 0% to 20%, however, in the middle and upper reaches it is greater than 45 %, and can reach up to 70%.

Table 2.1: Physiographic details

Elevation (metres)	Slope Range (%)	Order of watershed Sub/Micro-watershed	Major streams	Topography
300m to 560m	0% to 70 %	Micro Watershed	Umlathu	Moderately Sloping
200m to 660m	0% to 70 %	Micro Watershed	Umsyei	Moderately Sloping

- **2.2 Drainage:** The major stream draining the micro-watershed is the Umlathu and the Umsyei stream which is a 3rd order stream flowing in a south- north direction. The slopes of the micro-watershed are dissected by numerous small tributaries flowing to the Umlathu and Umsyei.
- 2.3 Soil: Soil Texture is gravely on the sloping lands and clayey to sandy clay on the low lying areas. Soil depth varies from shallow to deep. Soils are permeable and generally acidic in nature. Owing to moderately undulating land form and absence of good vegetation cover, the area is exposed to erosion hazards. The soil nutrient status in the area shows a general trend of low phosphorous content

1	2	3	4	5	6	7	8	9
S1.	Names of	Names of	Names of Projects	Cause	Types of	Area affected	Run-off (mm/	Average soil loss
No.	State	District	Names of Flojects	Cause	erosion	(ha)	year)	(Tonnes/ ha/ year)
				Water er	osion:			
			RB-IWMP-II Ri Bhoi Jirang (1) Umsyei watershed	a	Sheet	1730	NA	NA
				b	Rill	NA	NA	NA
1	Meghalaya	Ri Bhoi		c	Gully	NA	NA	NA
				Su	b total	1730		
				Wind ero	osion	Nil	Nil	Nil

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

				Water erosion:				
				a	Sheet	320	NA	NA
		RB-IWMP-II	b	Rill	210	NA	NA	
1	Meghalaya	Ri Bhoi	Jirang	с	Gully	100	NA	NA
		(1) Umlathu watershed	Su	b total	630			
				Wind erc	osion	Nil	Nil	Nil

2.4 Climate: The area in the foothills or low lying areas and mid-slopes are hot in summer and remain warm throughout the winter. The area on the higher reaches is hot during summer and warm during winter. The average annual rainfall is 1500 mm.

1	2	3	4	5	6	7	7		9						
S1.	Name of Name of the Ag		ame of the Agro- Area (in		Names of the Projects	Major soil t	ypes	Average annual rainfall in mm	Major crops						
No.	State climatic zone	ha)	the districts	ivallies of the Projects	a) Type	b) Area (ha)	(preceding 5 years' average)	a) Name	b) Area (ha)						
								1205 mm	Paddy	85					
							1073		Ginger	28					
		Hills of Northern			RB- IWMP –II	i. Loamy ii. Clayey			Pine apple	15					
1	Meghalaya	Slopes (300-1200m) Warm Humid Hyperthermic)	1730	Ri-Bhoi					Tea	60					
1	megnalaya		Warm Humid	Warm Humid	Warm Humid	Warm Humid	Warm Humid	На		Jirang	Loam	На	Patharkhmah	Vegetable	10
											Arecanut	45			
									Betle leaf	20					
									Others	02					
2	Meghalaya	Hills of Northern Slopes (300-1200m) Warm Humid Hyperthermic	631.00	Ri- Bhoi	RB-IWMP-II Jirang	i. Loamy ii. Clayey Loam	631	1205mm Patharkhmah	Paddy Arecanut Betel leaf Broom sticks	140 60 20 120					

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

2.5 Agriculture: Agriculture is the primary occupation of the people of the area. The principal agricultural crops grown are Hill Paddy, Banana, and vegetables. Fruit crops are well suited in the lower reaches which include, orange, pineapple, jackfruit, litchi. The slopes of the Lower Umlathu are also very suitable for betel nut, betel leaf, black pepper, broomstick, which contribute to the income of the people.

Crops	Area (ha)	Average Yield (Qtl) per ha.	Total Production (Qtl.)
Betel nut	20	5.56	111.20
Betel leaf	30	10	300
Oranges	50	72.61	3630.50
Bay leaf	10	23.5	235
Broom stick	560	60	33600
Black pepper	20	6.05	121
Banana	15	163.56	2453.40
Pineapple	30	115	3450

Table 2.4: Crop yield and production

- **2.6 Natural Vegetation:** The tree species common to the watershed area includes *Quercus* spp. *Castanopsis* spp. *Toona ciliata, Albizia* spp. *Aporosa* spp. *Bahunia variegata Duabanga* spp. and *Ficus* spp. However, due to Stone Quarrying the forest cover of the area has reduced considerably.
- **2.7 Socio-Economic Profile:** Economically, the project area is still backward compare to other part of the district. The main reason is due to the absence of road communication, primitive way of agricultural practices ,excessive stonequarrying and the terrain of the area.

Demographic Status: The total households in the watershed project is 292 with a total population of 1460, of which 750 are male and 710 are female. The detail of the household in each of the villages in the watershed project is as follows:

Umlathu Watershed=165 Households

Umsyei Watershed =127 Households

Infrastructure facilities :

- 2.1.1 *Roads:* All the villages within the Project Area are not connected by road. The Project area(Umlathu Watershed) depends entirely on the kutcha road connected to Pahamjula.
- 2.1.2 *School:* There are only 5 L.P Schools within the Project Area run either by the Mission or by the Government.
- 2.1.3 *Electricity* : Connections have been provided but some villages are yet to have electricity.
- 2.1.4 *Health* : No Community Health Centre is available in the Project Area, the local community has to depends on facilities available at Beltola or Guwahati.
- 2.1.5 *Water Supply* : Drinking water supply have been provided by the PHE Deptt.. However, during lean season the entire population have to depend on springs, ringwells available in the area as the supply is not sufficient to meet the daily requirement.
- 2.1.6 *Market* : There is a weekly market held once in a week at Byrnihat and Beltola. However, the main market where the people sell their produce is at Beltola and also at Shillong.

1	2		3	4								
Name	Name			Status								
of	of		Parameters:		1 1 1	MSYEI			2 111/1	LATHU		
District	Project				1-01	VISTEI			2-01 v 11	LAIIIU		
Ri	RB-	(i)	No. of villages connected to the main road by an all-	1				NIL				
Bhoi	IWMP-		weather road.									
	II	(ii)	No. of village provided with electricity	2				3				
		(iii)	No. of households without access to drinking water	127				NIL				
		(iv)	No. of educational institutions:	(P)	(S)	(HS)	(VI)	(P)	(S)	(HS)	(VI)	
			Primary (P)/ Secondary (S)/ Higher Secondary (HS)/	2	Nil	Nil	Nil					
			Vocational institution (VI)					4	NIL	NIL	NIL	
		(v)	No. of village with access to Primary Health Centre	1				NIL				
		(vi)	No. of village with access Veterinary Dispensary	Nil				NIL				
		(vii)	No. of village with access Post Office	1 NIL								
		(viii)	No. of village with access Banks	Nil NIL								
		(ix)	No. of village with access Markets/ mandis	1				NIL				
		(x)	No. of village with access Agro-Industries	Nil				NIL	NIL			
		(xi)	Total quantity of surplus milk	Nil				NIL				
		(xii)	No. of milk collection centres	(U)	(S)	(PA)	(0)	(U)	(S)	(PA)	(0)	
			(e.g. Union (U)/ Society (S)/ Private agency (PA)/			Nil	Nil	NIL	NIL	NIL	NIL	
			Others (O))									
		(xiii)	No. of villages with access to Aganwadi Centres	1				3				
		(xiv)	Any other facilities with no. of villages (please	Nil				NIL				
			specify)									

Table 2.5: Details of infrastructure in the project area:

2.8 Livestock: There are only 4 kinds of livestock farming being farmed in the area viz. Piggery, Poultry, Goatery and Dairy.

Table 2.6: Existing livestock population

Type of Animal	Population
Piggery Farming	150 Nos
Poultry Farming	886 Nos
Dairy Farming	117 Nos
Goatery Farming	48 Nos

2.9 Land ownership: There are primarily two types of land holding system, namely private lands (Ri Kynti i.e. individually owned land) and community lands (Ri Kur i.e. clan land and Ri Raid i.e. village community land).

Table 2.7:Details of land holding pattern in the project area:

1	2	3	4	5		6		
Name of District	Name of the	Types of Farmer	No. of	No. of BPL	Land holding (ha)			
	Projects		households	households	Irrigated	Rainfed	Total	
Ri Bhoi	RB-IWMP-II Jirang (1).Umsyei watershed	(i) Large	14 nos		0	202	202	
		(ii) Small	68 nos	8	0	255	255	
		(iii) Marginal	37 nos	13	0	43	43	
		(iv) Landless	08 nos	8	0	0	0	
		Sub - Total	127 nos	29	0	500	500	
Ri Bhoi	RB-IWMP-II Jirang (2).Umlathu Watershed	(i) Large	NIL					
		(ii) Small	8					
		(iii) Marginal	126	118				
		(iv) Landless	31	31				
		Sub - Total	165	149	NIL	340	340	

1	2	3			4			5		
Name of	Name of the	CPR			Fotal Area vned/ In po	(ha) ossession of	Area	available for	treatme	ent (ha)
District	Projects	Particulars	Pvt. Person	Govt. (specify deptt.)	PRI	Any other (Pl. specify)	Pvt. Person	Govt. (specify deptt.)	PRI	Any other (Pl. specify)
Ri Bhoi	RB-IWMP-II	(i) Wasteland/ degraded land	235	• <i>• •</i>		40 clan land	235			40
	Umsyei	(ii) Pastures	-	-	-	-	-	-	-	-
	watershed	(iii) Orchards	140			-	140			
		(iv) Village woodlot				2 clan land				2
		(v) Forest	40			30 clan land	40			30
		(vi) Village Ponds/ Tanks				1 village durbar				1
		(vii) Community Buildings		5		1		5		1
		(Health Dept)								
		(viii) Weekly Markets				1				1
		(ix) Permanent Markets				Nil				-
		(x) Temples/ Places of worship				2				2
		(xi) Others (Pl. specify)playground				2				2
Ri-bhoi	RB-IWMP-II	(i) Wasteland/ degraded land	110		150		110		100	
	Umlathu	(ii) Pastures								
	watershed	(iii) Orchards	80				80			
		(iv) Village woodlot	80				80		50	
		(v) Forest	70		40		40		40	
		(vi) Village Ponds/ Tanks								
		(vii) Community Buildings								
		(viii) Weekly Markets								
		(ix) Permanent Markets								
		(x) Temples/ Places of worship								
		(xi) Others (Pl. specify)								
		TOTAL	340		195		310		190	

1	2			1 9	4			5		
Name of	Name of the	CPR			Total Area wned/ In po	(ha) ossession of	Area	available for	treatme	ent (ha)
District	Projects	Particulars	Pvt. Person	Govt. (specify deptt.)	PRI	Any other (Pl. specify)	Pvt. Person	Govt. (specify deptt.)	PRI	Any other (Pl. specify)
Ri Bhoi	RB-IWMP-II	(i) Wasteland/ degraded land	235			40 clan land	235			40
	Umsyei	(ii) Pastures	-	-	-	-	-	-	-	-
	watershed	(iii) Orchards	140			-	140			
		(iv) Village woodlot				2 clan land				2
		(v) Forest	40			30 clan land	40			30
		(vi) Village Ponds/ Tanks				1 village durbar				1
		(vii) Community Buildings (Health Dept)		5		1		5		1
		(viii) Weekly Markets				1				1
		(ix) Permanent Markets				Nil				-
		(x) Temples/ Places of worship				2				2
		(xi) Others (Pl. specify)playground				2				2
Ri-bhoi	RB-IWMP-II	(i) Wasteland/ degraded land	110		150		110		100	
	Umlathu	(ii) Pastures								
	watershed	(iii) Orchards	80				80			
		(iv) Village woodlot	80				80		50	
		(v) Forest	70		40		40		40	
		(vi) Village Ponds/ Tanks								
		(vii) Community Buildings								
		(viii) Weekly Markets								
		(ix) Permanent Markets								
		(x) Temples/ Places of worship	İ							
		(xi) Others (Pl. specify)	İ							
		TOTAL	340		195		310		190	

Table 2.8:Details of Common property resources of the project areas:

2.10 Land Use and Land Cover: As per the Land Use Land Cover Map generated by NESAC, Meghalaya from Sattellite Image taken during 2005-06(LISS-III Image) the Watershed Area has been broadly classified into the following land uses:

	UMSYEI WATERSHED	UMLATHU WATERSHED
Built up Areas	14 Ha	-
Forest Closed	42 Ha	-
Current Shifting Cultivation	4 Ha	-
Tree Clad Open	281 Ha	53.82 Ha
Tree Clad Close	1035 Ha	368.30 Ha
Wastelands-Dense Scrub	292 Ha	209.05 Ha
Wastelands-Open Scrub	15 Ha	-
Water Bodies-River/Sream	<u>39 Ha</u>	-
TOTAL	1722 Ha	631.18 Ha

2.11 Problems of the Area : The primary problems of the area is Jhum Cultivation. Majority of the population depends on Jhum Cultivation for their livelihood. Vast tracks of abandoned Jhum areas are converted to Broomstick Cultivation which has further degraded the capability of the land. Mention may also be made here that the land use categorized as Tree-clad Area-open in the land used land cover map generated using Satellite Images of 2005 – 2006 are actually Broom-stick cultivation areas. In other words, unscientific method of cultivation has not only reduced the Jhum cycle, low crop yield but had adversely affected the ecological balance within the area. Road communication is another infrastructural problems that the area is facing where large volume crops like pineapple, jackfruits etc do not find their way into the market which has resulted in poor socio-economic status of the people. However, to control or to overcome the said problems an innovative approach has been formulated and documented in the Action Plan or the Treatment Plan the Detailed Project Report. The method of identification of the problems is through the Participatory Rural Appraisal Exercises conducted in all the villages within the Watershed.

CHAPTER III

PROJECT PLANNING & INSTITUTION BUILDING

3.1 Scientific Planning

- i) <u>Base Line Survey</u>: 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) <u>Participatory Rural Appraisal</u>: To further obtain information on the project area, the people, resources, various PRA techniques like resource mapping, social mapping, seasonal calendars, matrix ranking, Venn diagrams were used.
- iii) <u>GIS & Remote Sensing</u>: To facilitate the process of prioritization and planning Geographic Information System was use. The land use and land cover (LULC) maps were prepared by the North Eastern Space Application Centre (NESAC) using the LISS III images (2006). The activities were located on the field by using GPS and accordingly transferred to the maps on GIS platform.

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

Table 3.1: Details of Scientific Planning and Inputs in IWMP projects:

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

3.2 Project Implementing Agency:

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

1	2			3
Names of Districts	Names of projects			Details of PIA
Ri bhoi	IWMP II	(i)	Type of organization#	Government Department
		(ii)	Name of organization	Soil and Water Conservation Department, Government of Meghalaya
		(iii)	Designation & Address	Divisional Soil and Water Conservation Officer, Ri Bhoi Division, Nongpoh, Meghalaya.
		(iv)	Telephone	03638232257
		(v)	Fax	03638232257
		(vi)	E-mail	Dswco_ribhoi@yahoo.com

3.3 Institution Building

i) Watershed Committee (WC)

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

Table 3.2:Details of Watershed Committees (WC):

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Names of the Districts	Names of projects	Names of WCs	Date of Registration as a Society (dd/mm/ yyyy)	Designation	M/F	SC	ST	SF	MF	LF	Land- less	UG	SHG	GP	Any other	Educa- tional qualifi- cation	Function/s assigned#
Ri Bhoi		Umsyei WC	April/2011	Chairman	М		yes		yes					yes			A,B,D,E.F.G.H.I
				Secretary	М		yes										A to I
				Member	7M		7/yes	2	2		1			2			A,B,E,F,G,H,I
				Member	2F		2/yes	1	1								A,B,E,F,G,H,I
	IWMP II			Member													A,B,E,F,G,H,I
		Umlathu	-do-	Chairman	М		yes							1		Х	A,B,D,E.F.G.H.I
		WC		Secretary	Μ		yes								1	XII	A To I
				Member	7M		yes		1		1	2		2		V to X	A,B,E,F,G,H,I
				Member	1M		yes						1				A,B,E,F,G,H,I

* From column no.2, the total number of States, from column no.3, the total number of Districts; from column no.4, the total number of projects; from column no.5, the total number of watershed committees; from column no.6, the total number of registered watershed committees; from column no.7, the total number of members, and WCs without a President and/or without a Secretary, may be mentioned for the State as a whole. From column no.8, the total no. of male and female members may be mentioned separately. The totals of columns 9 to 18, for the entire country, may be mentioned at the end of the table.

In column 20 only the letter assigned, as below, needs to be typed, except for `J', where the type may be specifically mentioned.

- A. PNP and PRA
- C. Maintenance of Accounts

- B. Planning
- D. Signing of cheques and making payments
- E. Supervision of construction activities
- F. Cost Estimation

- G. Verification & Measurement
- I. Social Audit

- H. Record of labour employed
- J. Any other (please specify).

ii) Self Help Group

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

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

1	2		3				4				5			6	
Names	Names of		l no. of reg	istered S	SHGs	No. o	of mer	nbers				C/ST in egory	No. of BPL in each category		
of the Districts	projects	W1th	With only Women	With both	Total	Categories	М	F	Total	М	F	Total	М	F	Total
Ri	IWMP					(i) Landless (ii) SF									
Bhoi	II	Nil	Nil			(iii) MF									
						(iv) LF									

iii) User Group

To manage the assets created and ensure their sustainability User Groups will be formed. The people have been sensitized on the importance of ensuring that the assets created are sustainably used and the essentiality of having User Groups for maintenance and operation of their assets.

Table 3.4: User Group Details

1	2		3				4				5		6						
	of Names of Total no. of UGs ts Projects N D the Total					No.	of mer	nbers				/ST in egory		f BPL catego	in each ry				
Districts	Projects	Men	Women	Both	Total	Categories	М	F	Total	Μ	F	Total	Μ	F	Total				
						(i)Landless													
Ri Bhoi	IWMP II		II NA	NIA	NΙΛ	NA	NA	NA	NA	(ii) SF									
KI DIIOI		INA	INA	INA	INA	(iii) MF													
						(iv) LF													
Total																			

CHAPTER IV PROJECT ACTIVITIES

4.1 Preparatory Phase:

i) Entry Point Activities (EPA)

(Financial – Rs. in lakh)

1	2	3	4	5	6	7	8	9	10	11
Sl. No.	State	District	Names of Project	Amount earmarked for EPA (Rs/lakhs)	E P A planned (Rs/lakhs)	Estimated cost (Rs/lakhs)	Expenditure incurred (Rs/lakhs)	Balance (Rs/lakhs)	Expected outcome	Actual outcome
1	Meghalaya	Ri Bhoi	RB-IWMP-II Jirang (1).Umsyei watershed	Rs.3.00	Drinking Water-4 nos Footbridge-1 no Water Harvesting pond-1 no	Rs.3.00	Rs.3.00	Nil	Clean drinking water, safe crossing of stream, ground water recharge	Clean drinking water, safe crossing of stream, ground water recharge
2	Meghalaya	Ri-bhoi	RB-IWMP-II Jirang (2).Umlathu Watershed	3.00 lakhs.	Construction Of village Road & Foot Bridge	3.00	3.00	NIL	Infrastructural Developments	

ii) Other activities of Preparatory Phase:

1	2	3	4	5	6	7	8	9	10	11	12	13
District	Name of Projects	Initiation of village level institution	Capacity building	IEC activities	Baseline survey	Hydro- geological survey	Identifying technical support agencies	Resource agree- ments	Preparation of DPR	Evaluation of DPR	Any other (please specify)	Cost incurred (Rs. In lakh)
Ri Bhoi	RB- IWMP-II Umsyei watershed	Yes	Yes	NO	PRA	Yes	Yes	Yes	Yes	No	No	-
Ri-bhoi	RB-IWMP-II Umlathu watershed	Yes	Yes	NO	PRA	Yes	Yes	Yes	Yes	No	No	-

4.2 Watershed Works Phase:

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

1	2	3	4	5		6								7					
				-		Pre Proj	ect						Prop	osed Proje	ct				
S1.	Name	Name of	Name of	Type of		Area	Storage	Au	-	on/ repair o tructures	f existing	Co	onstruction	n of new str	ructures		Т	otal target	
No	of States	Distric ts	Projects	structures	No	irrigate d (ha)	capacit y(Ha)	No	Area to be treated (ha)	Storage capacity	Estimate d cost	No	Area to be treated (ha)	Storage capacity	Estimat ed cost(Rs lakhs)	No	Area to be treated (ha)	Storage capacity	Estimated cost
1	Megh	Ri	RB-	(i) Tank															
	alaya	Bhoi	IWMP -II		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				(ii) Pond	4		0.4	-	-	-	-	62	76.0	6.4	14.60	62	76.0	6.4	14.60
				(iii) Lake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				(iv) Check Dam		-	-	-	-	-	-	30	54.0	-	2.25	30	54.0	-	2.25
				(v) Percolation Tank	-	-	-	-	-	-	-	25	26.0	6.0	8.20	25	26.0	6.0	8.20
				(vi) Channel			-	-	-	-	-	18	30.0	-	2.101	18	30.0	-	2.101
				(vii) Any others -cc dam -protection wall	-	-	-	-	-	-	-	18 24	30.0 38.0	-	5.382 4.88	18 24	30.0 38.0	-	5.382 4.88
			Total		4	0	0.4	-	-	-	-	174	254Ha	12.40 Ha	37.413	174	254Ha	12.40 Ha	37.413

			9	10								
Augm		repair of ctures	existing	Co	nstruction	of new stru	ictures	Tot	al achievem	ent	Change in storage capacity (col 8-6)	Change in irrigated area (ha) Col. (8- 6)
No	Area irrigate d (ha)	Storage capacity	Expenditu re incurred (in lakhs)	No	Area irrigated (ha)	Storage capacity	Expenditur e incurred (in lakhs)	Area irrigated (ha)	Storage capacity	Estimate d incurred		-
-	-	-	-									
-	-	-	-									
-	-	-	-									
-	-	-	-									

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

1	2	3	4	5		6					7				1				8				9
			ļ į	1	Pr	e-project				Pro	posed ta	arget					Achiev	vem	ent due	to project	t		
S. No.	Names of	of	names of	~ 1	No.	Area	rech	gmentation/ of existing narging strue	ng		nstruction recharg structu	ging	, Total 1			gmentation/ existing rech structure	harging		Construct new rech structu	harging	Total a	chievement	Chan ge in t irrigat ed area
	States	Districts	projecta			(ha)	No.	ho	Estim ated	No.		Estimat e ed cost	Area to be irrigate d (ha)	Estimat	No.	Area irrigated (ha)	Expendi- ture incurred	No		Expendi	. gated	Expendi- ture incurred	(Col. 8-6)
1	Meghal	Ri	RB-	(i)Open wells	Nil	Nil	Nil	Nil	Nil	,,	, <u> </u>	1	1		1	1	,		1	,	1	· · · · · · · · · · · · · · · · · · ·	
	aya	Bhoi	IWMP-	(ii)Bore wells	Nil	Nil	Nil	Nil	Nil			· · · · · ·	1	[]		, ,	· · · · · · · · · · · · · · · · · · ·			'			
			/	(iii)Any others #Percolation tanks/check dams	Nil	Nil	Nil	Nil	Nil	135	30	30.432	30.0	30.432	NA	NA	NA	N A	NA	NA	NA	NA	NA
				Total for the project	Nil	Nil	Nil	Nil	Nil	135	30	30.432	30.0	30.432	NA	NA	NA	N A	NA	NA	NA	NA	NA

4.2.3 Activities executed by User Groups in the Project Areas.

1	2				3			
		N	lajor activities	of the UGs	–Targets			
Names of Districts	Names of		Structure/ a	activity prop	osed	No. of UGs	Estimated	Amount of WDF to be
	Projects	Sl. No.	Туре	No.#	Treatment (ha)	involved	Cost	collected (Rs.)
Ri Bhoi	RB-IWMP-II Jirang	NA	NA	NA	NA	NA	NA	NA

4.2.4 Activities executed by User Groups in the Project Areas:

			Major	4 Approximation of the	UGs – Achieve	ments									
	Major activities of the UGs – Achievements Structure/ activity No. of UGs Expenditure No. of mandays Amount of WDI														
Sl. No.	Туре	No.#	Treated Area (ha.)		incurred (Rs.)	SC	ST	F	collected (Rs.)						

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

1	2		3	
			Major activities of	of the SHGs
Names of the Districts	Names of projects	Name of activity	No. of SHGs involved	Average annual income from activity per SHG
Ri Bhoi	RB-IWMP-II	NA	NA	NA

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

4			5		6	7		8		9	10
No. of SHGs	Total as		ceived by that in Rs.)	he SHG	Total annual	Total annual		of Sl raded		Total Amount of	No. of SHGs
given training	Loan from revolving fund	Training	Material	Others (pl. specify)	Income generated (Rs.)	Savings (Rs.)	Ι	II	III	loan sanctioned by the bank(s)	federated
NA	NA	NA	NA	NA	NA	NA	NA	N A	NA	NA	NA

4.2.7 Other activities of watershed works phase:

1	2	3			4	5	í		6	7		8	3	9)	1	0	1	1]	12	13
District	Names of projects	Ridge treatr			age line tment	Nurs rais			and opment	Cro demonst	-	Pas develo			inary ices		nery opment	conver	Non- conventional energy (a) (b)		ny her ease cify)	Total cost incurred (Rs. In lakhs)
		(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	iakiis)
Ri	RB-	150	5.40	120	11.07	-	-	230	21.03	120	3.00	0	0	40	4.00	32	8.00	-	-	-	2.25	54.75
Bhoi	IWMP-II	Ha		ha				ha		nos				units		units						
	Umsyei																					
	watershed																					
Ri-	RB-IWMP-	180	12.36	134	13.343			160	13.197	120	3.00	0	0	30	3.00	20	5.00	-	-	-	4.85	54.75
bhoi	II Umlathu	На		На				ha		nos				units		units						
	watershed																					
		330Ha	17.76	254	24.413			390	34.227	240nos	6.00	0	0	70	7.00	52	13.00	-	-	-	7.10	109.50
				Ha				ha						units		nos						

4.2.8 Details of engineering structures in watershed works:

1	2	3		4			5		6				7						8	
			Тур	e of treat	ment]	Гуре of l	and	Executing agency			Ta	rget					Ach	ievement	
District	Project		i) Ridge area (R)		(iii) Land dev. (L)		(ii) Commu nity	(magifu)	(i) UG (ii)SHG (iii) Others (pl. specify)	No. of units (No./ cu.m./ rmt)	cost	акп)	. in	Expected month & year of completion (mm/yyyy)	No. of units (No./ cu.m./ rmt)	inc	urre in la	li-tu d (R kh) O	s. Status c comple	f Actual month & year of completion (mm/yyyy)
		Contour bunding										-						_		
		Graded bunding	-	-	-	-	-	-	-	-			-	-						
		Bench terracing											-							
		CC checks dams		Yes		Yes			UG	18 nos	5.38	82		03/2014						
		Masonary stop dams																		
Ri Bhoi	RB- WMP-II	Gully plug		Yes	-	Yes	Yes		Landowne r/village durbar	30nos	2.2	5		03/2014						
		Gabion structures														1				
		Staggered trenching	Yes	-	-	Yes	-	-	Land owner	20ha	1.40	0								
		Field bunds			Yes	Yes			Land owner	90	3.8′	7		03/2014						
		Any others (pl. specify)																		

Contd.

4.2.9 Details of engineering structures in watershed works.

							9										
						О	utcomes										
Reduction in	Area treated#	Water le	evel (m)	Production	on (quintal)	Income	(Rs.)			Mandays	generated			No	o. of benef	iciaries	
run off (cu.m)	(ha)	Pre- project	Post project	Pre- project	Post project	Pre-project	Post project	SC	ST	Others	Women	Total	SC	ST	Others	Women	Total
NA	NA	NA	NA	NA	NA	NA	NA			NA	NA	NA	NA	NA	NA	NA	NA

1	2	3		4			5		6			7				8	
			Туре	e of treat	ment	Ту	pe of	land	Executing agency			Target			ŀ	Achievement	
Distri ct	Project	Name of structure/ work	(i) Ridge area (R)	(ii) Draina ge line (D)	(iii) Land dev. (L)	(i) Priv ate	1 om	(iii) Other s (pl. speci fy)	(i) UG (ii)SHG (iii) Others (pl. specify)	Area (ha)	No. of plants	Estimated cost (Rs. in lakh)	Expected month & year of comple-tion (mm/ yyyy)	Area # (ha)	No. of plants	Expendi- ture incurred (Rs. in lakh)	Actual month & year of comple-tion (mm/ yyyy)
		Afforestation	Yes		yes	Yes	yes		UG	150	75000	5.40	03/2014				
		Regeneration															
		Agro-forestry															
		Fuel wood															
	RB-	Fodder															
Ri	IWMP-II	Horticulture			yes	yes			UG	200	60000	11.64	03/2014				
Bhoi	(1)Umsye	Pasture dev.															
	i	Nursery raising	Yes		Yes	Yes	Yes		SHG/UG	For 350 Ha	135000	8.10	03/2014				
		Others (pl. specify)															
Ri-	RB-	Afforestation	Yes				Yes			80		8.08	03/2014				
bho	IWMP-II	Regeneration	Yes			Yes				80		2.88	03/2014				
i	(2)Uml	Agro-forestry															
1	athu	Fuel wood															
		Fodder															
		Horticulture				Yes				60		7.60	03/2014				
		Pasture dev.															
		Nursery raising															
		Others (pl. specify)				Yes				20		1.61	03/2014				
		Total															

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

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.

							9							
							Outcon	nes						
	Produ	ction	Inco	ome		Ν	/andays g	enerated			l	No. of bene	eficiaries	
Reduction in run off	(quir	ntal)	(Rs	s.)										
(cu.m)	Pre- project	Post project	Pre- project	Post project	SC	ST	Others	Women	Total	SC	ST	Others	Women	Total
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

4.2.12 Details of allied / other activities:

1	2	3		4		5		6		7
				Type o	f land	Executing agency	Т	arget	Achie	vement
District	Project	Name of activity@	(i) Priv ate	(ii) Commu nity	(iii) Others (pl. specify)	(i) UG (ii)SHG (iii) Others (pl. specify)	Estimated cost (Rs. in lakh)	Expected month & year of completion (mm/yyyy)	Expendi-ture incurred (Rs. in lakh)	Actual month & year of completion (mm/yyyy)
		Crop demonstration								
		Mud bricks.basket making		Yes		SHG	0.75	03/2014		
		Cash crop value addition	Yes			SHG	1.00	03/2014		
	RB-	Backyard poultry	Yes			individual	2.00	03/2014		
	KB- IWMP-II	Other livestock	Yes			indv	2.00	03/2014		
Ri Bhoi	(1)Umsy ei	Fisheries	Yes	Yes		Indv/vill durbar	8.00	03/2014		
	CI	Tailoring/carpentry/black smithy	yes			indv	0.50	03/2014		
		Non conventional energy saving devices (bio-fuel)								
		Energy conservation measures								
		Others (pl. specify)								
		Crop demonstration	Yes			WC	3.00	03/2014		
		Sericulture								
	RB-	Bee keeping								
Ri-bhoi	IWMP-	Backyard poultry	Yes			Individual	1.50	03/2014		
KI-01101	II	Small ruminants								
	(2)Uml		Yes			Individual	1.50	03/2014		
	athu	Fisheries	Yes				5.00	03/2014		
		Non conventional energy saving devices (bio-fuel)								
		Arecanut/ Soak tanks		Yes		Community	2.00	03/2014		
		Others (mudbricks, basket weaving),etc		Yes		Community	1.50	03/2014		
		Utility shops	Yes			Individual	0.75	03/2014		
		Total					34.50			

* from column no. 2, no. of States; from column no. 3, no. of Districts; from column no. 4, total no. of Projects; from column no. 5, activity-wise totals, from column no. 6, type-wise totals, from column no. 7, agency-wise totals, from column no. 8, total estimated cost, from column no. 9, total expenditure incurred, structure-wise no. of completed works, from column no. 10, item-wise totals, for the entire country may be indicated at the end of the table

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

						8									
					Ou	itcomes									
Incom	Income (Rs.) Mandays generated No. of beneficiaries														
Pre- project	Post project	SC	S T	Others	Women	Total	SC	ST	Others	Women	Total				

4.2.13 Details of allied / other activities:

4.3 Consolidation and withdrawal phase

Details of activities in the CPRs in the project areas:

1	2	3	4	5		б					7			
						Targ	et	-		Acl	hievement	-		
Names of the Districts	Names of projects	Name(s) of the villages	CPR particulars	Activity proposed	Target area under the activity (ha)	Estimated expenditure (Rs.)	Expected no. of beneficia-	Estimated contri- bution to	Area treated under the activity	Expenditure incurred (Rs.)	Actual no. of benefici-	ma	o. of Indays	WDF collected (Rs.)
					activity (iia)	(13.)	ries	WDF (Rs.)	(ha)	(R3.)	aries	SC	ST F	(13.)
			Community Forest	improvement	150	5,40,000	127 households	27000						
D.11 .	RB- IWMP-II	Lailad	Drinking water	Collection, Filtering Storing Distribution	6 nos	3,00,000	80 nos	15,000						
Ri bhoi	(1)Umsyei	Tasku	Footbridge	Construction	1 no	50,000	32 nos	2500						
			Weekly market,	Footpath	1 no	50,000	Comm	2500						
			Village paths	Widening	1 no	50,000	Comm.	2500						
		Pyngker	Village road	Extension	1 no	1,50,000	Comm.	7500						
	RB-	Umlathu	Village road	Extension	1 no	1,12,000	Comm.	5600						
Ri bhoi	IWMP-II	Pahamjula	Foot bridge	Maitenance	1 no	75,000	Comm.	3750						
	(2)Umlathu	Pilingkuh	Foot bridge	Maitenance	1 no	38,000	Comm.	1900						
		Total				13,65,000		68,250						

CHAPTER V PROJECT PHASING AND BUDGETING

ACTION PLAN OF UMSYEI & UMLATHU WATERSHED UNDER IWMP – II, RI BHOI DIVISION : NONGPOH i Bhoi District No. of villages – 7 nos.

Name of District: Ri Bhoi District

Name of C&RD Block: Umling Block

Project Area – 1000 Ha.

S1.	Name of CORD Diock: Onlining Diock	I st Ye	ar	II nd Ye	ar	III rd Ye	ar	IV th Ye		$\frac{1 \text{ca} - 1000}{\text{V}^{\text{th}} \text{Y}_{0}}$		То	otal
No	Activities	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
1	2	3	4	5	6	7	8	9	10	11	12	13	14
I	MANAGEMENT COST:												
А.	Administrative cost:			2 %	3.0	5 %	7.5	3 %	4.5	-	-	10 %	15.0
i.	Honourarium of WDT Members @ Rs. 5000/ month – 1 no.	-	-	-	-	12 months	0.60	12 months	0.60	-	-	2 yrs	1.20
ii.	Hon ^{rm} of Watershed Volunteers @ Rs. 2500/- month $- 2$ nos.	-	-	-	-	12 months	0.60	12 months	0.60	-	-	2 yrs	1.20
iii.	Hon ^{rm} WCO's @ Rs. 750/ month.	-	-	12 months	0.09	12 months	0.09	12 months	0.09	-	-	3yrs	0.27
iv.	Hon ^{rm} WCM @ Rs. 100/members/ month for 25 nos.	-	-	12 months	0.30	12 months	0.30	12 months	0.30	-	-	3 yrs	0.90
v	Hon ^{rm} Office assistant @ Rs. 3000/- month.	-	-	12 months	0.36	12 months	0.36	12 months	0.36	-	-	3 yrs	1.08
vi	Hon ^{rm} Chartered Accountant	-	-	-	0.15	-	0.15	-	0.15	-	-	3 yrs	0.45
vii	TA/DA of Field Asstt. @ 5000/ month	-	-	6 months	0.60	6 months	0.30	6 months	0.30	-	-	1.5 yrs	1.20
viii	Hiring charges of office building @ 1000	-	-	-	-	12 months	0.12	12 months	0.12	-	-	2 yrs	0.24
ix.	Hiring charges of vehicle @ 5000/ month	-	-	12 months	0.60	12 months	0.60	-	-	-	-	2 yrs	1.20
х	Office expenses, POL, Stationeries, printing of SHG's books, pamphlets, tea, snacks etc, cost of camera.	-	-	-	0.90	-	4.38	-	1.98	-	-	-	7.26
	Total of A:	-	-	2 %	3.0	5 %	7.5	3 %	4.5	-	-	10 %	15.0
	PREPARATORY PHASE :												
В.	Entry Point Activities:	4 %	5.00	-	-	-	-	-	-	-	-	4 %	6.00
i.	Construction of Approach Road	250m	3.0	-	-	-	-	-	-	-	-	1 unit	4.0
ii.	Construction of D/water tank cum washing & bathing place	3 units	1.5	-	-	-	-	-	-	-	-	3 units	2.0
Iii	Ring well	2 Units	0.50										
Iv	Water Harvesting	1 unit	0.50										
V	Footbridge	1 Unit	0.50										
	Total of B:	2 %	6.00	-	-	-	-	-	-	-	-	2 %	6.00

1	2	3	4	5	6	7	8	9	10	11	12	13	14
C.	Training:	1 %	1.50	2 %	3.0	1 %	1.5	1%	1.5	-	-	5 %	7.50
i.	Awareness Campaign & Capacity building	1 no	0.50	-	-	-	-	1 no.	0.30	-	-	2 no	0.80
ii.	Exposure visits – off. Campus	1 no	0.30	-	-	-	-	1 no.	0.30	-	-	2 no	0.60
iii.	Capacity building of SHG's/ UG's.	3 nos.	0.20	4 nos.	2.00	4 nos.	2.00	1 no.	0.30	-	-	12 nos.	3.50
iv.	Capacity building of WC Members.	2 nos.	0.25	1no.	0.5	2nos.	0.50	1 no.	0.30	-	-	6 nos.	1.30
v.	Capacity of WDT/WV	2 nos.	0.25	1 no.	0.5	2nos.	0.50	1 no.	0.30	-	-	6 nos.	1.30
	Total of C:	1 %	1.50	2 %	3.0	1 %	1.5	1%	1.5	-	-	5 %	7.50
D.	Detailed Project Report:	1 %	1.50	-	-	-	-	-	-	-	-	1 %	1.50
i.	Cost of Resources Inventories works	-	0.25	-	-	-	-	-	-	-	-	-	0.25
ii.	Cost of PRA Exercises	-	0.50	-	-	-	-	-	-	-	-	-	0.50
iii.	Cost of Land use Survey works	-	0.25	-	-	-	-	-	-	-	-	-	0.25
iv.	Cost of formulating	-	0.50	-	-	-	-	-	-	-	-	-	0.50
	Total of D:	1 %	1.50	-	-	-	-	-	-	-	-	1 %	1.50
E.	Monitoring & Evaluation:	-	-	0.5%	0.75	1%	1.5	0.5%	0.75	-	-	2 %	3.00
i.	Monitoring	-	-	0.2%	0.30	0.5%	0.75	0.3%	0.45	-	-	-	-
ii.	Evaluation	-	-	0.3%	0.45	0.5%	0.75	0.2%	0.30	-	-	-	-
	Total of E:	-	-	0.5%	0.75	1%	1.5	0.5%	0.75	-	-	2 %	3.00
	Total of I (A to E)	6%	9.00	4.5%	6.75	7 %	10.50	4.5 %	6.75	-	-	22 %	33.00
п	PROJECT COST/WATERSHED WORKS PHASE :	-	-	-	-	-	-	-	-	-	-	-	-
А.	Arable Land Treatment:	-	-	-	-	-	-	-	-	-	-	-	-
	Improvement of Existing Paddy Fields @ Rs.4300/Ha	-	-	-	-	90 Ha	3.87	-	-	-	-	90 Ha	3.87
	Agro- horticulture (citrus) @Rs.8600/Ha												
	i Preliminary works and First year planting @ Rs.1300/Ha	-	-	-	-	65 Ha	0.845	0	0	0	0	65 Ha	0.845
	ii First year Maintenance @ Rs.4600/Ha	-	-	-	-	65 Ha	2.99	0	0	0	0	65 Ha	2.99

	iii Second year Maintenance @ Rs 2700/Ha	-	-	-	-	0	0	65 Ha	1.755	0	0	65 Ha	1.755
	Agro- horticulture(arecanut) @Rs 12,680/Ha (238pl/Ha)												
	i Preliminary works and First year planting @ Rs.1490/Ha	-	-	104 Ha	1.55	31Ha©	0.4619	-	-	-	-	135 Ha	2.0119
	ii First year Maintenance @ Rs.8664/Ha	-	-	-	-	135 Ha	11.6964	-	-	-	-	135 Ha	11.696 4
	iii Second year Maintenance @ Rs 2526/Ha Agro- horticulture (betel leaf) @Rs 8058/Ha	-	-	-	-	-	-	135 Ha	3.4101	-	-	135 Ha	3.4101
	i Preliminary works and First year planting @ Rs.1600/Ha	-	-	-	-	50 Ha	0.80	_	_	-	-	50 Ha	0.80
	ii First year Maintenance @ Rs.4121/Ha	-	-	-	-	50 Ha	2.06	-	-	-	-	50 Ha	2.06
	iii Second year Maintenance @ Rs 2337/Ha	-	-	-	-	-	-	50 Ha	1.169	-	-	50 Ha	1.169
	Agro- horticulture (banana) @Rs 7400/Ha												
	i Preliminary works and First year planting @ Rs.1080/Ha	-	-	-	-	30 Ha	0.324	-	-	-	-	30 Ha	0.324
	ii First year Maintenance @ Rs.4020/Ha	-	-	-	-	30 Ha	1.206	-	-	-	-	30 Ha	1.206
	iii Second year Maintenance @ Rs 2300/Ha	-	-	-	-	-	-	30 Ha	0.69	-	-	30 Ha	0.69
	Contour Trenching	-	-	-	-	20 Ha	1.40					20 Ha	1.40
	Total of A - Arable Land Treatment	-	-	104Ha(c)	1.55	286Ha(c)	25.6533		7.0241			390 Ha	34.227
В.	Non Arable Land Treatment	-	-										
	Improvement of degraded natural forest @ Rs.3600/Ha											230 Ha	8.28
	i. Preliminary Year @ Rs. 700/Ha	-	-	-	-	230 На	1.61	-	-	-	-	230 Ha	1.61
	ii First year planting @ Rs. 1900/	-	-	-	-	230 Ha	4.37	-	-	-	-	230 Ha	4.37
	ii Second year Maintenance @ Rs.1000/	-	-	-	-	-	-	230 Ha	1.9059	-	-	230 Ha	1.9059
	Afforestation @ Rs. 10,100/Ha	-	-	-	-	-	-	-	-	-	-	-	-
	i. Preliminary Year @ Rs 1700/-Ha	-	-	-	-	80 Ha	1.36	-	-	-	-	80 Ha	1.36
	ii First year planting @ Rs. 5500/-Ha	-	-	-	-	80 Ha	4.40	-	-	-	-	80 Ha	4.40

	ii Second year Maintenance @ Rs 2900/-Ha	-	-	-	-	-	-	80 Ha	2.32	-	-	80 Ha	2.32
	Total of B- Non Arable Land Treatment	-	-	-	-	310Ha(c)	11.77	310Ha(M)	4.62	-	-	310Ha (c)	15.966
C.	Drainage line Treatment	-	-	-	-	-	-	-	-	-	-	-	-
	Protection wall / Utility Platform (as per estimate)	-	-	24 nos	4.88	-	-	-	-	-	-	24 nos	4.88
	Loose boulder check dam @ Rs.7500/-	-	-	20 Nos	1.50	10 Nos	0.75	-	-	-	-	30 nos	2.25
	Water Harvesting and Distribution @ Rs. 32,800/-	-	-	8 nos	2.624	17 nos	5.576	-	-	-	-	25 nos	8.20
	CC check Dams @ Rs. 29,900/each	-	-	-	-	18 nos	5.382	_	-	-	-	18 nos	5.382
	Dugout Pond	-	-	2 nos	0.32	8 nos	1.28	-	-	-	-	10 nos	1.60
	Run-off disposal channel @ Rs 26/Rm	-	-	1446 Rm	0.376	8033 Rm	2.0887	-	-	-	-	8080 Rm	2.4647
	Total of C- Drainage line Treatment	-	-	153 Ha	9.70	101 Ha	15.0767	-	-	-	-	254 Ha	24.77
	Total of Watershed Treatment/Development works	-	-	7.5 %	11.25	35 %	52.50	-	-	-	-	50.00%	75.00
D	Livelihood Activities												
A	Kitchen gardening, agri-implements @ Rs.2500/ unit	-	-	60 nos	1.50	100 nos	2.50	80 nos	2.0	-	-	240 nos	6.00
В	Piggery/ Poultry/ @ Rs.10,000/ unit	-	-	-	-	20 nos	2.00	50 nos	5.00	-	-	70 nos	7.00
С	Tailoring, carpentry, black smithy @ Rs. 10,000/unit	-	-	-	-	-	-	20 nos	2.00	-	-		

												20 nos	2.00
	Total of D- Livelihood Activities	-	-	1 %	1.5	3 %	4.50	6%	9.0	-	-	10.00% 22 Ha	15.00
Е	Production System & Micro Enterprise	-	-							-	-		
	Mud brick making/ basket making @ Rs. 25,000 / unit	-	-	-	-	2 nos	0.50	8 nos	2.00	-	-	10 nos	2.50
	Utility shop @ Rs. 25,000/ unit	-	-	-	-	4 nos	1.00	-	-	-	-	4 nos	1.00
	Fishery @ Rs.25,000/each	-	-	6 nos	1.50	20 nos	5.00	26 nos	6.50	-	-	52 nos	13.00
	Cash crop value addition @ Rs 50,000/unit - areca nut soak tanks/Rice mill	-	-	-	-	2 nos	1.00	4 nos	2.00	-	-	6 nos	3.00
	Total of E- Production System & Micro rprise	-	-	1 %	1.5	5 %	7.5	7 %	10.50	-	-	13.00% 24 Ha	19.50
F.	Consolidation & Withdrawal Phase (PIA)	-	-	-	-	-	-	-	-	5%	7.5	5%	7.5
	Total of Consolidation Phase	-	-	-	-	-	-	-	-	5%	7.5	5%	7.5
	Total of II(A+B+C+D+E+F)	-	-	9.5%	14.25	43%	57.00	20.5%	31.50	5%	7.50	78%	117.00
	GRANT TOTAL (I+II)	6%	9.00	14%	21.00	50%	75.00	25%	37.50	5%	7.50	100%	150.00

1	2	3	4	5	6	7	8	9	10	11	12	13	14
8	Consolidation & Exit Phase:												
10	Repairs, Maintenance of CPR's.	-		170		-	-	-	•	141	3.00		3.00
4	Improving the sustainability of various	-	-		-		-	•	•		2.00	-	2.00
	Documentation of successful experiences & Preparation of Completion Report		-	12	-	*			-	-	2.50	-	2.50
	Total of F:	-	-		-	-	-		-	5%	7.50		7.50
	Initial of II (A+B+C+D+E+F)			9.5 %	14.25	43 %	57.00	20.5 %	31.50	5%	7.5	78 %	117.0
	Grand Total (I + II)	6 %	9.00	14 %	21.00	50 %	75.00	25 %	37.50	5%	7.50	100 %	150.0

C, lan -

Deputy Commissioner Ri - Bhoi District Nongpole

IURU Divisional Officer Coll & Water Construction BI Bhoi Division Nongpoh

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

1	2	3	4	5	6	,	7	8	9		10)				11		
				Year	Proj dura (dd/r yyy	tion nm/	Area of	Projec	Names of Micro watersheds & Code nos. (as per DoLR's unique codification)	Α	area (ha) of	the projects				ea details within the	(ha) e projects)	
S1.	Name of	Name of	Names of	of			the	t cost	,									
No.	State	Districts	Projects	sanct ion	Fro m	То	projects (Ha)	(Rs. In lakh)		Cultivate d rainfed area	Cultivat ed irrigated area	Uncult waste		Pvt. Agri. Land	Forest land	Comm unity land	Others (pl. specify)	Total area (ha)
												a) Tempora ry fallow	b) Per manent					
1	Megh alaya	Ri Bhoi	RB- IWMP- II Jirang	2009 -10			500	75.00	1.Umsyei 3B2A1a2l	230	35	165	70	1340	170	180	40 Village, market, roads,pl aygrou nds,etc	1730
2	Megh alaya	Ri Bhoi	RB- IWMP- II Jirang	2009 -10			500	75.00	2.Umlathu 3B1c7a1f	140	NIL	160	0	440	80	85	26	631

Fund provision for the IWMP projects from all sources:

1	2		3					4						5
						Fund	s from other	sources in	n addition to	IWMP f	unds	•		
District	Name of Projects	IWM	P Fund		rgence 1ds	Р	PP	Com	munity		tutional ance	Other spec	rs (Pl. cify)	Total
		Centra 1 Share	State Share	Name of Scheme	Amount	Name of private sector	Financial contri- bution	Name	Financial contri- bution	Name	Financial contri- bution	Name	Financ ial contri- bution	
Ri Bhoi	RB- IWMP-II 1.umsyei	67.50	7.50	NREGs	10.00	NIL	NIL	Nil	Nil	Nil	Nil	Nil	Nil	85.00
Ri-bhoi	RB-IWMP- II 2umlathu	67.50	7.50	NREGs	8.00	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	83.00
		135.00	15.00	NREGs	18.00	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	168.00

1	2	3	4			5				6		
				Dis	stt. Agency's F	Project Accourt	nt details		Watershed Co	mmittee (WC)	account details	5:
Sl. No.	Names of States	Name of Districts	Names of Projects	Name of the Bank and Branch where project account has been opened	Account Number (to be obtained confiden- tially)	Account type (Savings/ Current/ Others)	Name & Designation of authorized persons who operate the account.	Name of Watershed Committee	Name of the Bank and Branch where project account has been opened	Account number (to be obtained confiden- tially	Account type (Savings/ current others)	Name & Designation of authorized persons who operate the account.
1	Meghalaya	Ri Bhoi	RB- IWMP-II 1.umsyei	Indian Bank, Nongpoh	867300258	Savings	Smti V. Papang DSWCO SWCDept. Ri Bhoi District, Nongpoh	Umsyei W/C	Indian Bank Nongpoh	874611981	Savings	1.Shri P.Nongtri Chairman WCUmsyei 2.Shri L.Shabong ASWCO and Secretary WCUmsyei
2	Meghalaya	Ri-bhoi	RB- IWMP-II 2umlathu	Indian Bank, Nongpoh	867300258	Savings	Smti V. Papang DSWCO SWCDept. Ri Bhoi District, Nongpoh	Umlathu W/C	Indian Bank Nongpoh	881086359	Savings	1.Shri M. Mayong Chairman 2.Shri L.Shabong Secretary

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

Details of Convergence of IWMP with other Schemes:

1	2	3	4	5	6	7
District	Names of projects	Names of Departments with Schemes converging with IWMP	Fund made available to IWMP due to convergence (Rs. in lakh)	Name of activity/task/structure undertaken with converged funds (a) Structures (b) livelihoods (c) Any other (pl. specify) [#]	Reference no. of activity/ task/ structure in DPR [@]	Level at which decision for convergence was taken ^{\$}
Ri bhoi	RB-IWMP- II (1)Umsyei	C&RD Dept NREGS	10.00	Water harvesting	III C fisheries	Deputy Commissioner
Ri bhoi	RB-IWMP- II (2)Umlathu	C&RD Dept NREGS	8.00	Construction of Village Road		Deputy Commissioner

Public-Private Partnership in the IWMP projects:

1	2	3	4				5	6	7	8	9	
		Name of	Туро	e of agreemen	t signed		ncial bution					
District	Name of project	Private Sector Partner Agency	a)MoU	b)Contract	c) Any other (pl. specify)	IWMP	Private sector	Partnership Interventions	Expected Outcomes	Actual Outcomes	Comments	
Ri bhoi	Iwmp II	NA	NA		NA	NA	NA	NA	NA	NA		

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

CHAPTER VI CAPACITY BUILDING

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.

1	2	3	4	5	6	7	8			9		
S. No	State	Name of the Training Institute	Full Address with contact no., website & e-mail	Name & Designati on of the Head of Institute	Type of Institute [#]	Area(s) of specialization ^{\$}	Accre- ditation details	Refer- ence Year	No. of trainings assigned		No. of	No. of trainees trained
1		NIRD (NER)	Guwahati	Director	Central Govt.	Remote Sensing, Rural Devt.	NA	-				
2	1	SIRD	Nongsder	Director	State Govt.	Capacity Building	NA	-			,	[[]
3	alaya	RRTC	Umran	Director	Don-Bosco	Agri-Horti, Animal Husbandry, Entrepreneurship	NA					
4	Meghalaya	ICAR	Umiam	Director	Central Govt.	Do	NA					
5	1	VTC	Kyrdem Kulai	Director	State Govt.	Animal Husbandry	NA				,	
6		Fruit Garden	Shillong	Director	State Govt.	Agri-Horti, Fruit Processing	NA					

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

* 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 2009-2010 as on ...31/03/2010... (dd/mm/yyyy)*

1	2	3	4	5		6		7		
Project	Total no.	No. of persons	No. of persons to be trained	No. of persons trained during		Sources of funding for training		Funds utilised		
Stakeholders	of persons	trained so far	during current financial year	current financial year	a)DoLR	b)Any other (pl. specify)	a)DoLR	b)Any other (pl. specify)		
SLNA										
DRDA/ZP cell										
PIAs	54 nos	24nos	30nos	NA	0.50		0.50			
WDTs	12nos	12 nos	12 nos	NA	0.50		0.50			
UGs										
SHGs										
WCs	26 nosx4 times	26 nos	26 nos	NA	1.00		1.00			
GPs										
Community	876 nos	292nos	584nos	NA	1.00		1.00			
Others										
(Pl. specify)										
Total	968	354	652	NA	3.00		3.00			

Table 6.3:

Information, Education & Communication (IEC) activities for the year 2009-2010 as on 31/03/2010 (dd/mm/yyyy)*-

	1	2	3	4	5
	Activity	Executing agency	Estimated expenditure (Rs.)	Expenditure incurred (Rs.)	Outcome (may quantity, wherever possible)
1.	Awareness	S&WC Ri Bhoi Division	0.50	0.50	
2.	PRA Exercises	S&WC Ri Bhoi Division	0.50	0.50	
3.	Exposure Visits	S&WC Ri Bhoi Division	0.30	0.30	
4.	Capacity Building	S&WC Ri Bhoi Division	1.70	1.70	
5.	Photos/Pamphlets/Literature	S&WC Ri Bhoi Division	0.50	0.50	

CHAPTER VII EXPECTED OUTCOME

Table 7.1 Employment related outcomes:

						-	1					Self employment No. of beneficiaries SC ST Others Women Tot 100 %				
Sl	Name of					Wage em	ploym									
No	Village		N	o. of mano	lays			No.	of benefi	ciaries			No.	of benefi	ciaries	
		SC	ST	Others	Women	Total	SC	ST	Others	Women	Total	SC	ST	Others	Women	Total
1.	Old Tasku		100 %					100 %					100 %			
2.	Lailad Rim		100 %					100 %					100 %			
3.	Lailad Jingkieng		100 %					100 %					100 %			
4.	Umlathu		100 %					100 %					100 %			
5.	Pahamjula		100 %					100 %					100 %			
6.	Pynker		100 %					100 %					100 %			
7.	Pillingku		100 %					100 %					100 %			

Table 7.2 Migration Details:

Details of seasonal migration from Project areas:

1	2	3	4	5	6	7	8	9		10
Names of the	Names of Projects	Name of village	No. of person s	No. of days per year of	reason(s)	Distance of destination of migration from the		Income from such occupation	major activi	igration identify ities of IWMP onsible
Districts			migrati ng	migration	migrating	village (km)	migration	(Rs. in lakh)	(a) Structures	(b) Livelihoods
	RB- IWMP-II Jirang	Tasku	NIL	NIL	NIL	NIL	NIL	NIL		
D.11 .	(1)Umsye	Lailad	NIL	NIL	NIL	NIL	NIL	NIL		
Ri-bhoi		Pyngker	30	60		50	Hired Wages	1.20		
	RB- IWMP-II Jirang	Umlathu	25	65		50	Do	1.10		
	(2) Umlathu	Pilingku	22	45		30	Do	0.70		
	Cimatila	Pahamju la	15	45		50	Do	0.40		

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

Table 7.3 Economic benefits accrued to women: NA

1		2			3	4
Wages		Trainir	ng	Liv	elihoods	
Woman days	Woman days Amount (Rs. in lakh)		No. of women participantsAmount (Rs. in lakh)		Value of assistance provided (Rs. in lakh)	Total (Rs. in lakh)

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

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

1	2	3	4	5	6	7			8	
Names of the Districts	Names of the	Names of	Particular	Nature of	Period of	Be		ry details (amilies)	(no. of	User Charges (Rs.)
	projects	the villages	of CPR	right	right	SC	ST	Others	Total	
RI BHOI	RB-IWMP-II									

* From column no. 2, no. of States; from column no. 3, no. of Districts; from column no. 4, no. of projects, from column no. 5, no. of villages, from column nos. 9 & 10, particular-wise totals for the entire country may be given at the end of the table.
@ In column no.6, the categories given in table no. M(SP)10, column 5 may be filled as required.

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

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

Table 7.5 Water related outcomes:

1	2	3	4	5	6	7	8
Names of	Names of	Sources	Pre-Project	Mid-term project	Post-project	Increase/decrease	Remarks
Districts	Projects	Sources	level	level	level	(Col. 8 – Col. 6)	Keillarks
Rib hoi	IWMP II	Open wells	NA				
		Bore wells	NA				
		Others (specify)	NA				

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

 Table 7.5.2 Status of Drinking water:

1	2		3				5	
District	Name of the		oility of drinki of months in a	0	Qualit	y of drinking	, water	Commente
District	project	Pre-project	Post- project	Change in availability	Pre- project	Post- project	Change in quality	Comments
Ri Bhoi	RB-IWMP-VI	Insufficient	Sufficient	10 – 12 months	Moderate	Improved	Improved	-

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

1	2	3		4		
				Water savings in cu.m	1.	
District	Name of the project	Name of major crop	through water saving devices ^{\$}	through water conserving agronomic practices [#]	Any other (pl. specify)	Total
Ri bhoi	IWMP II	NA				

* 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, practice-wise totals may be mentioned at the end of the table for the entire country.

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

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

Table 7.6: Vegetation/ crop related outcomes:

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

1	2	3		4					5						6					
				Pre-project					Mid-term								Pos	t-proje	ct	
Names of the Districts	Projects	Name of crops		rea 1a)	-	ge Yield per ha.	Prod	otal uction Qtl)	Ar (h		Aver Yield ha (l per	To produ (qt	ction	Ar (h		Yiel	erage d per (qtl)	Tot produc (qt	ction
			Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.
Ri Bhoi	IWMP II	Paddy		240		15		3600												
		Other food crops		250		18		9000												
		Vegetabl es		100		20		2000												

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

Irri. – IrrigatedRf. – Rainfed

1	2	3	4	5		6					7					8						
							Pre-p	roject				Mid-term					Post-project					
Sl No.	Names of States	Names of the Districts	Name of Projects	Name of crops		rea a)	Yi	rage eld) per a.	To Proc Q	lucti n	Ar (h	·ea a)	Aver Yie per (Q	eld ha	To Produ (Q	iction	Ar (h	rea a)	Aver Yie per (Q	eld ha	Tot Produ (Q	ction
					Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.

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

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

Irri. – Irrigated Rf – Rainfed

1	2	3	4	5		6					7					8						
							Pre-	project					Mid	l-tern	n		Post-project					
Sl. No.	Names of States	Names of the Districts	Name of Projects	Name of crops		rea 1a)	-	ge Yield per ha.	Prod	otal uction Qtl)		rea 1a)	Aver Yield ha (d per	To produ (qt	ction	Ar (h		Yiel	erage d per (qtl)	Tota produc (qtl	ction
					Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.
1	Meghala ya	Ri Bhoi	IWMP II	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
			Total for the District																			

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

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

Irri. – IrrigatedRf. – Rainfed

Table 7.6.4 Increase/ Decrease in area under fodder:

3	4	5		6		7				
			Existing	g area under	fodder (ha)		Achievement (ha)			
District	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		
Ri bhoi	IWMP II	5 years	Umsyei WC	2009	Nil	Nil				
Ri-bhoi	IWMP-II	5 years	Umlathu WC	2009	160	NIL				

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

 Table 7.6.5 Increase/ Decrease in Forest/vegetation cover:

1	2	3		4		5						
			Existi	ing area tree co	over (ha)		Achievement (ha)					
District	Name of project	Duration of Project	Source/Name Year of of report 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				
Ri bhoi	IWMP II	-	NESAC	-	-	-	-	-				

* 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.

1	2	3		4		5					
			Existing ar	ea under hortic	ulture (ha)		Achievement (ha)				
District	Name of project	Duration of Project	Source/Name of report	Year of reference	Area already under horticulture	Area under horticulture proposed to be covered through IWMP	Area under horticulture actually covered through IWMP	Change in area under horticulture			
Ri Bhoi	RB-IWMP-II	5 yrs									
Ri Bhoi	RB-IWMP-II	5 yrs									

Table 7.6.6 Increase/ Decrease in area under horticulture:

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

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

1	2	3		4		5					
			Existing a	area under fo	odder (ha)	Achievement (ha)					
District	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	Area under fuel- wood actually covered under IWMP	Change in area under fuel-wood			
Ri Bhoi	RB-IWMP-II	5 yrs									
Ri Bhoi	RB-IWMP-II	5 yrs									

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

Table 7.7 Livelihood related outcomes:

1	2	3	4				5			6	7	
Names of the	Names of Projects	Type of Animal	I	ect		Mid-te	rm		Post-pro	Remarks		
Districts	Ivanies of Trojects	Type of Annual	No.	Yield	Income	No. Yield		Income	No. Yield		Income	Kennarks
Ri bhoi	IWMP II	Milch-animals	Nil	Nil	Nil							
		Animals for other	120nos	8900	4,70,000							
		purpose (Meat)	1201108	8900	4,70,000							
	Total for all projects		120nos	8900	4,70,000							
Total for all Districts												

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

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

Table 7.7.2 Details of other livelihoods created for landless people:

1	2	3	4		-	5		6	7			8						
		Name of activity	v for the	Sources of funding (Rs.in Lakhs)			Actual Expenditure	N	No. of beneficiaries trained				No. of beneficiaries taking up activity					
District Pr	Project			Project Fund	Benefi -ciary	Others (pl. specify)	Total	incurred on activity (Rs.)	SC	ST	Others	Women	Total	SC	ST	Others	Women	Total
		Kitchen garden		6.00			6.00											
		Piggery		4.00			4.00											
		Poultry		3.00			3.00											
Ri	IWMP	Tailoring/		2.00			2.00											
bhoi	II	carpentry																
		Utility		1.00			1.00											
		shop																
		Mud brick		2.50			2.50											
		making																

Contd.

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

Table 7.7.3Details of other livelihoods created for landless people:

(9	10		12				
No. of persons employed								
	the activity		U	ration	Development of b	Any other information		
	-		(100.01) de	neficiaries)	linka			
Total	Grand total (8+9)	activity (Rs.)	Pre-project	Post-project	Pre-project	Post-project	(Pl. Specify)	
NA	NA NA NA			NA NA NA			NA	

1	2	3	4	5				6	7				8			
		Name of activity	Funds required	Sources of funding (Rs.)				Actual Expenditure	No. of farmers trained				No. of farmers taking up activity			
District	Project	Name of activity	for the activity (Rs.)	Project Fund	Benefi- ciary	Others (please specify)	Total	incurred on activity (Rs.)	SF	MF	LF	Total	SF	MF	LF	Total
Ri bhoi	IWMP II	Cash crop value addition/ Rice mill		3.00 Lakhs	5%		3 Lakhs									
	11	Fishery		13.00 Lakhs	5%		13.00 Lakhs									

Table 7.7.4 Details of other livelihoods created for farmers:

(Contd.)

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

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

	9	10			12				
employ	of persons ed indirectly e activity Grand total (8+9)	Annual increase in income due to activity (Rs.)		Impact of livel gration peneficiaries) Post-project	ihoods programm Development forward Pre-project	of backward-	Any other information (Pl. Specify)		
NA	NA	NA	NA	NA	NA		NA		NA

Table 7.8 Marketing related outcomes:Backward-Forward linkages *

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

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

Table 7.9 Abstract of outcomes:

1	2	3	4	5	6	7
S. No.	State	Item	Unit	Pre-project Status	Post-project Status	Remarks
		Status of water table		NA		
		Ground water structures repaired/ rejuvenated		NA		
		Quality of drinking water		NA		
		Availability of drinking water		NA		
		Increase in irrigation potential		NA		
		Change in cropping/ land use pattern		NA		
		Area under agricultural crop		NA		
		i Area under single crop		NA		
		ii Area under double crop		NA		
		iii Area under multiple crop		NA		
		Net increase in crop production area		NA		
		Increase in area under vegetation		NA		
		Increase in area under horticulture		NA		
		Increase in area under fuel & fodder		NA		
		Increase in milk production		NA		
		No. of SHGs		NA		
		Increase in no. of livelihoods		NA		
		Increase in income		NA		
		Migration		NA		
		No. of school going children		NA		
		SHG Federations formed		NA		
		Credit linkage with banks		NA		
		Resource use agreements		NA		
		WDF collection & management		NA		
		Summary of lessons learnt	May b	be attached as a separa	ate file	

1	2	3	4	5	6	7	8	9	10
District	Name of project	Name of WC	Name of structure/ activity	Estimated cost (Rs.in Lakhs)	Expected quantifiable benefits (Rs.)	Expenditure incurred (Rs.)	Actual quantifiable benefit (Rs.)	Benefit: Cost ratio [#]	IRR
			Protection walls	4.88	5.20	NA	NA	1.065	
			Loose boulder check dam	2.25	3.00	NA	NA	1.33	
		Umsyei And	Water harvesting and distribution	8.20	10.60	NA	NA	1.29	
RI BHOI	IWMP II	UmlathuWC	Dugout ponds	1.60	3.20	NA	NA	2.00	
			CC check dam	5.382	6.50	NA	NA	1.20	
			Run-off channel	2.101	2.50	NA	NA	1.19	
			Livelihoods	15.00	20.00	NA	NA	1.33	
			Production systems	19.50	25.00	NA	NA	1.28	
Total				58.913	76.00	NA	NA	1.29	

Table 7.10 Cost effectiveness of structures/ activities*

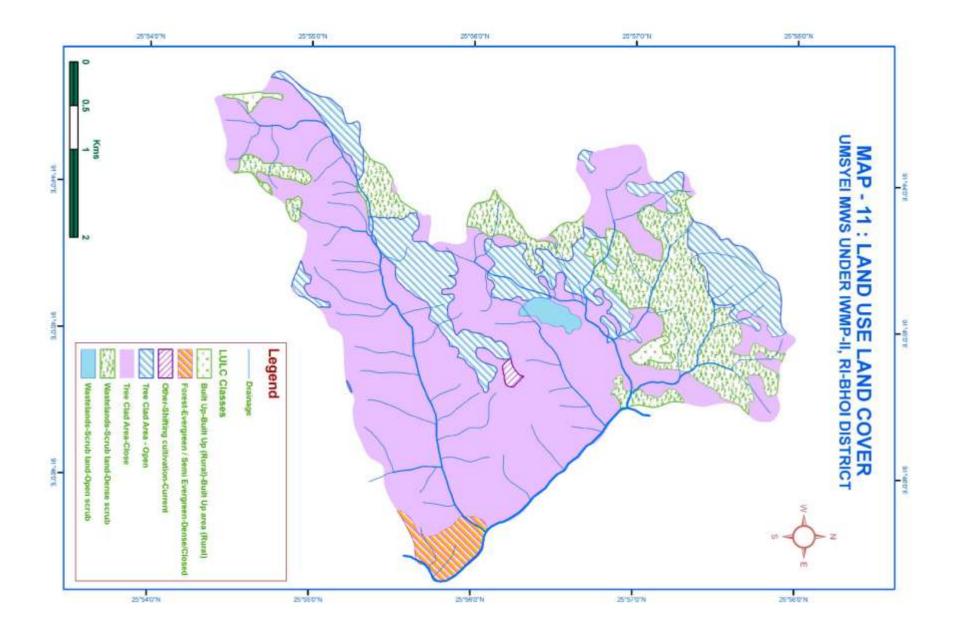
* from column no. 2, total no. of States implementing the programme, from column no. 3, total no. of Districts; from Column no. 4, no. of projects, from column no. 5, no. of WCs, from column no. 6, no. of structures/ activities, from column no. 7 to 10, category-wise# totals, may be mentioned at the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

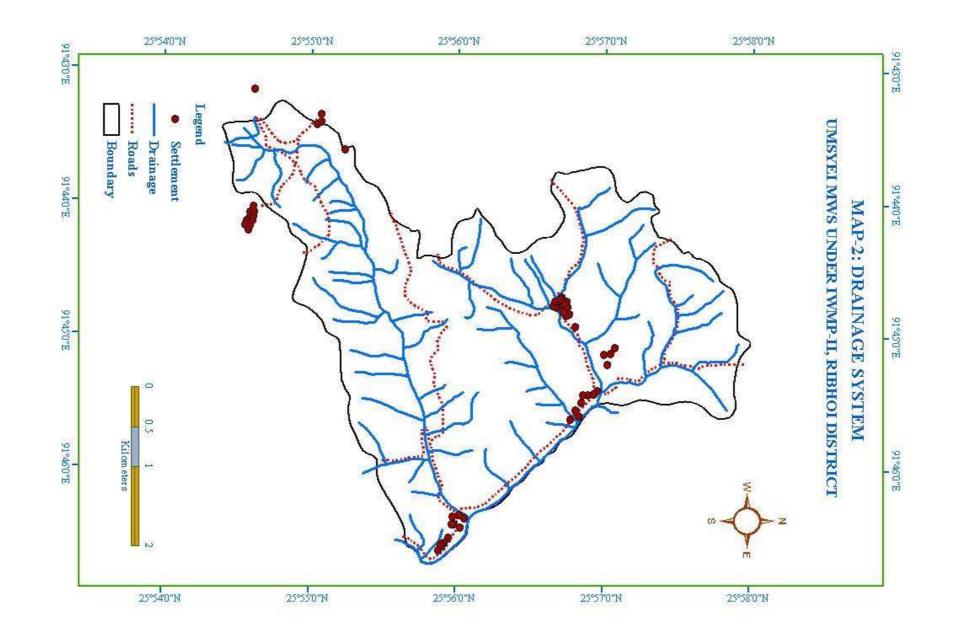
[#] B:C ratio more than 1 –cost effective

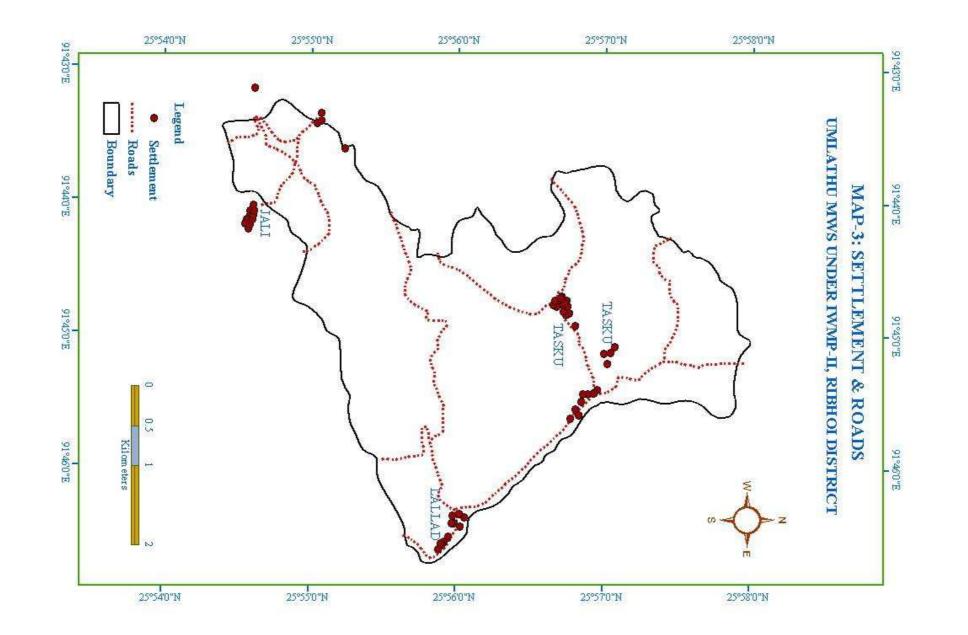
less than 1 - Not cost effective

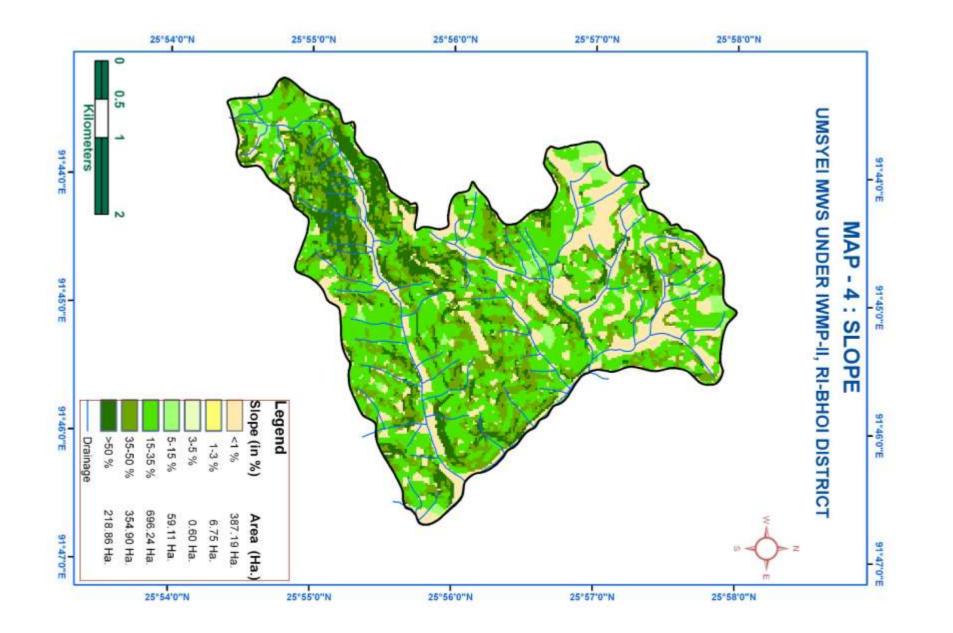
ANNEXURE I

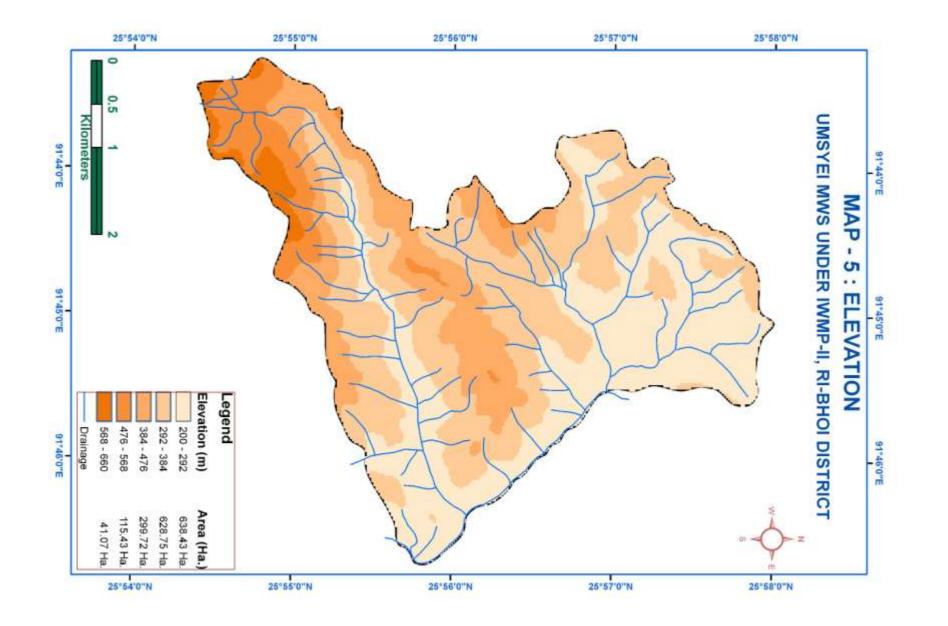
MAPS

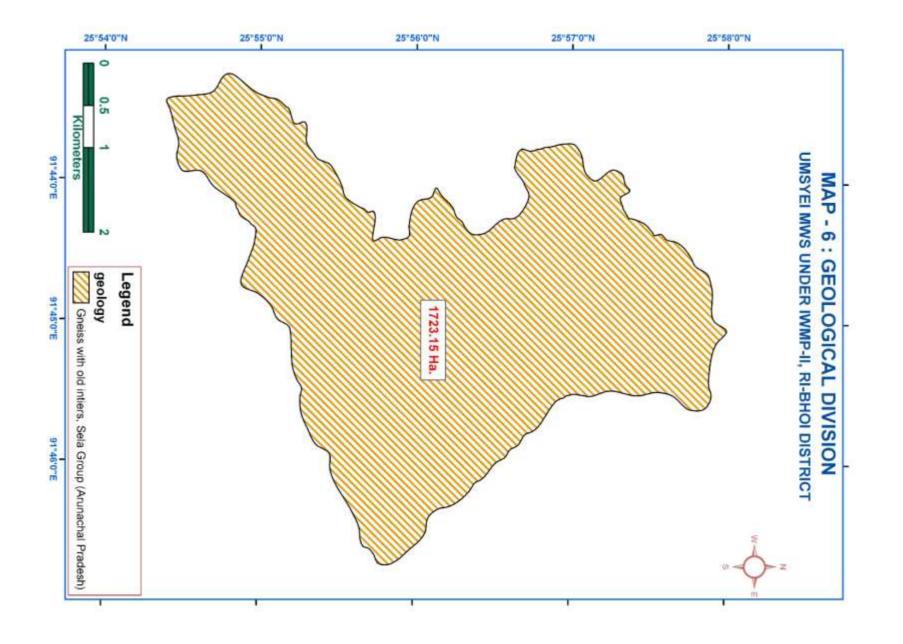


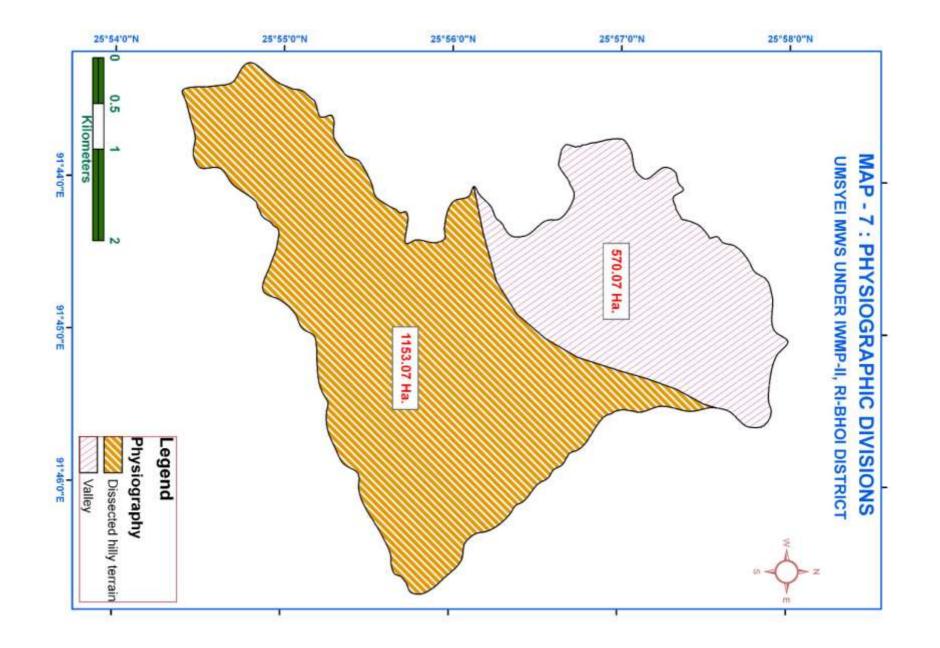


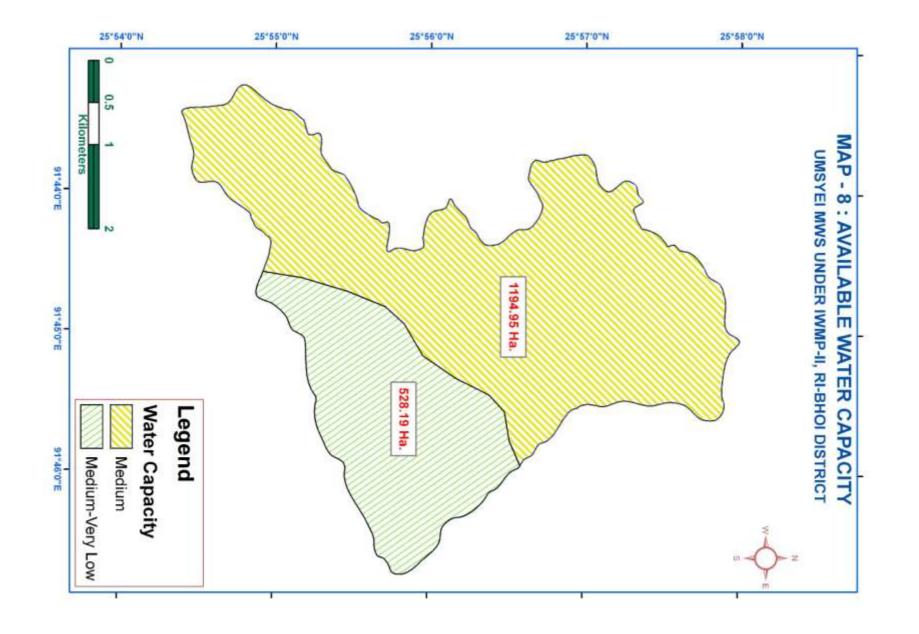


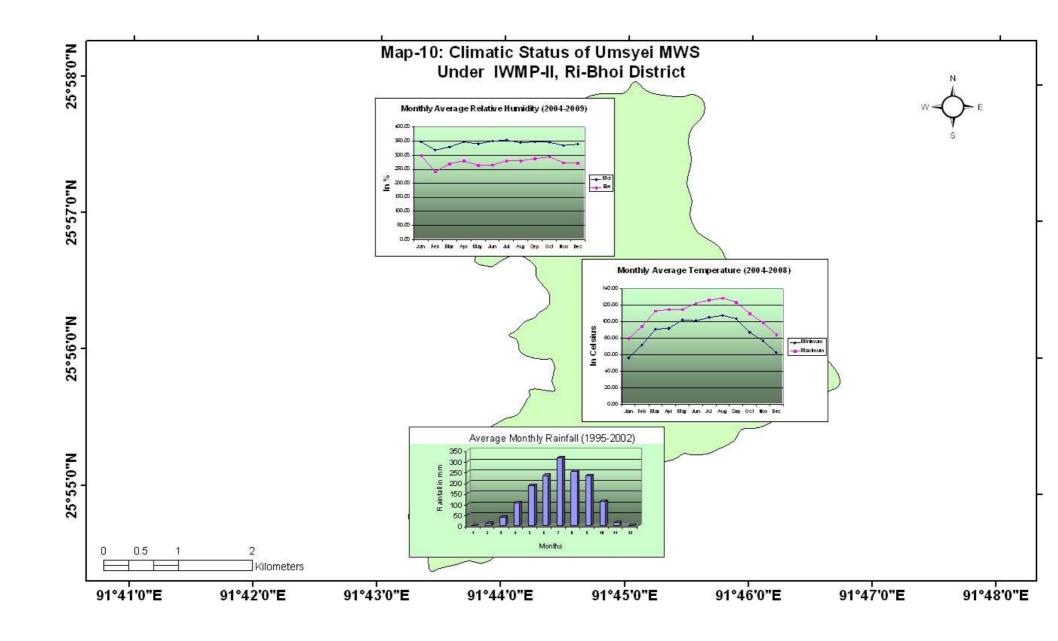


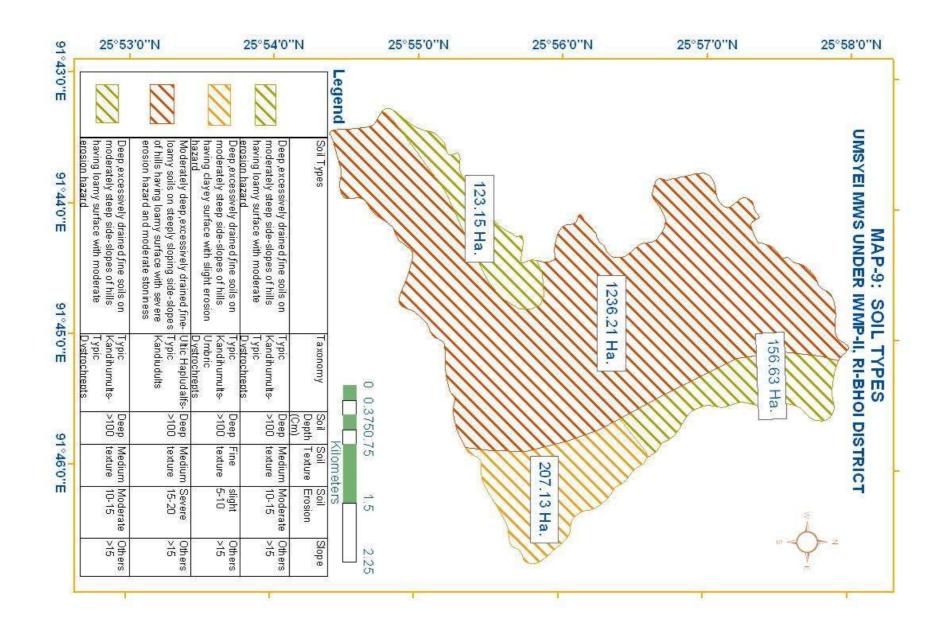


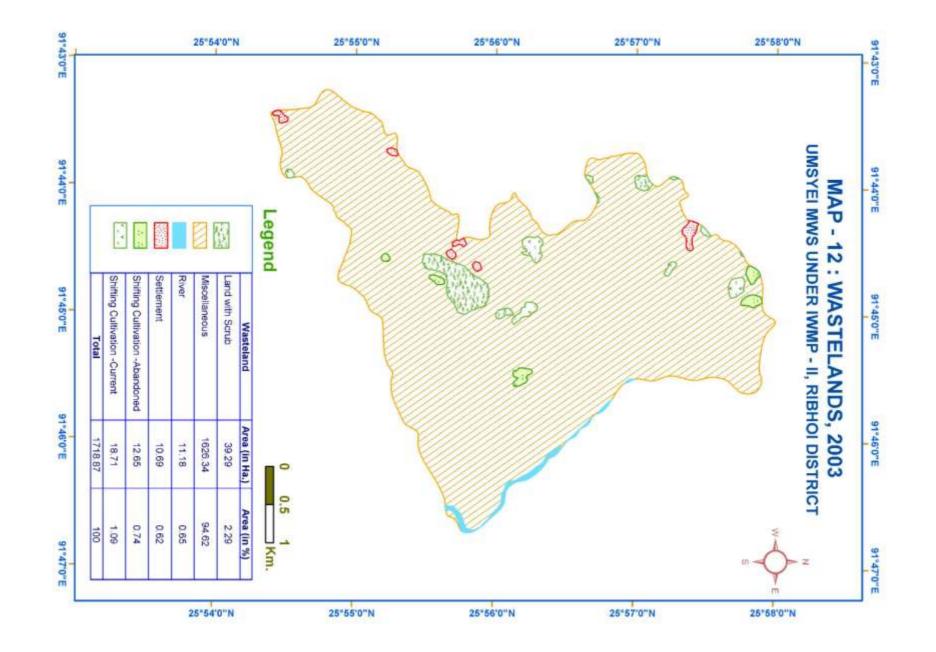


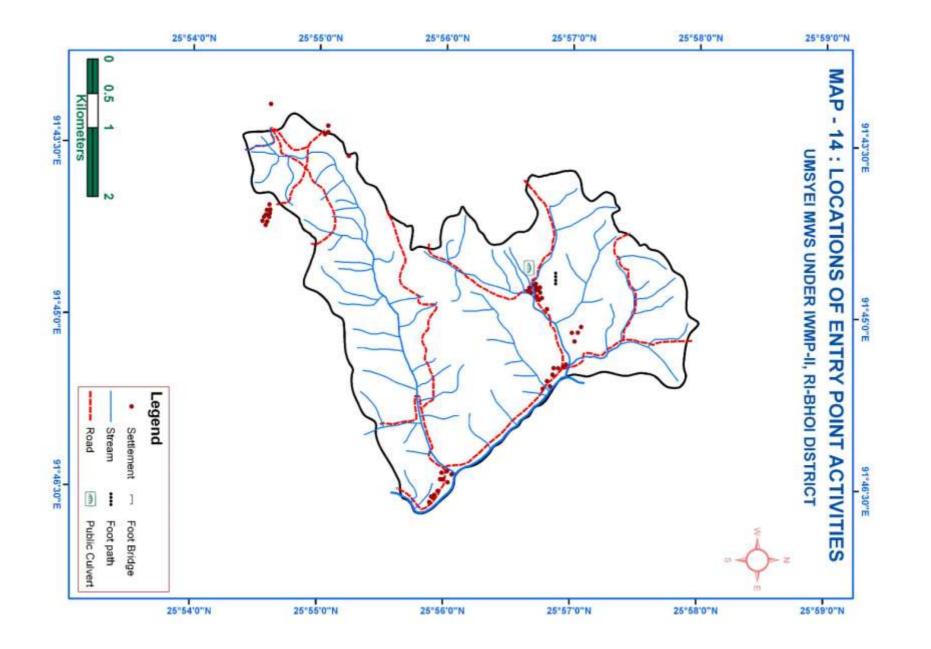


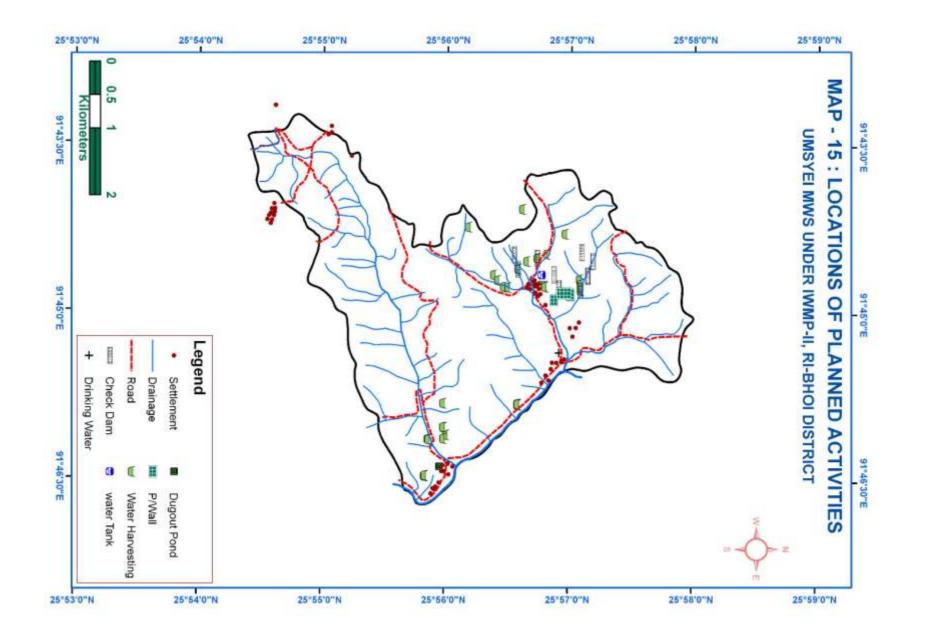






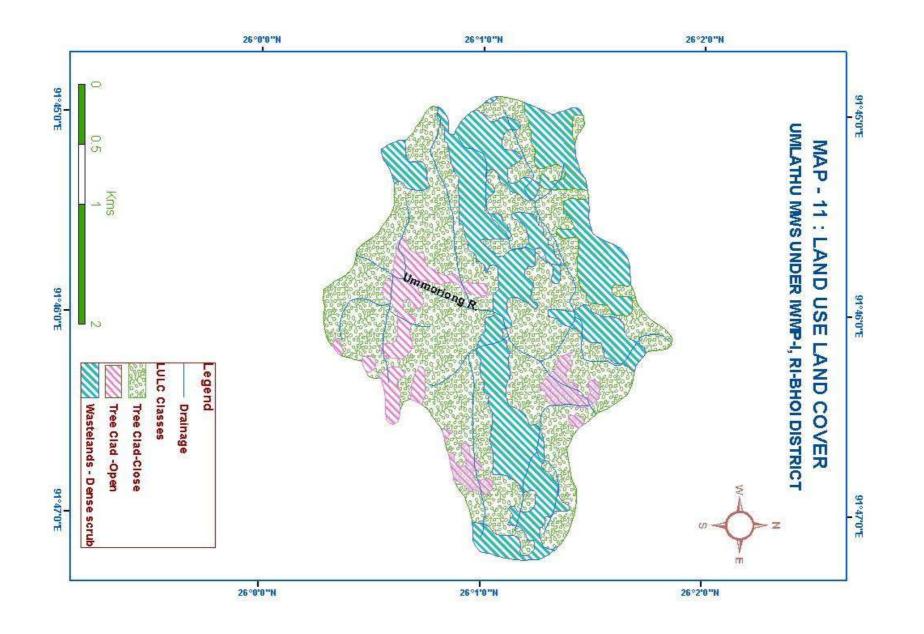


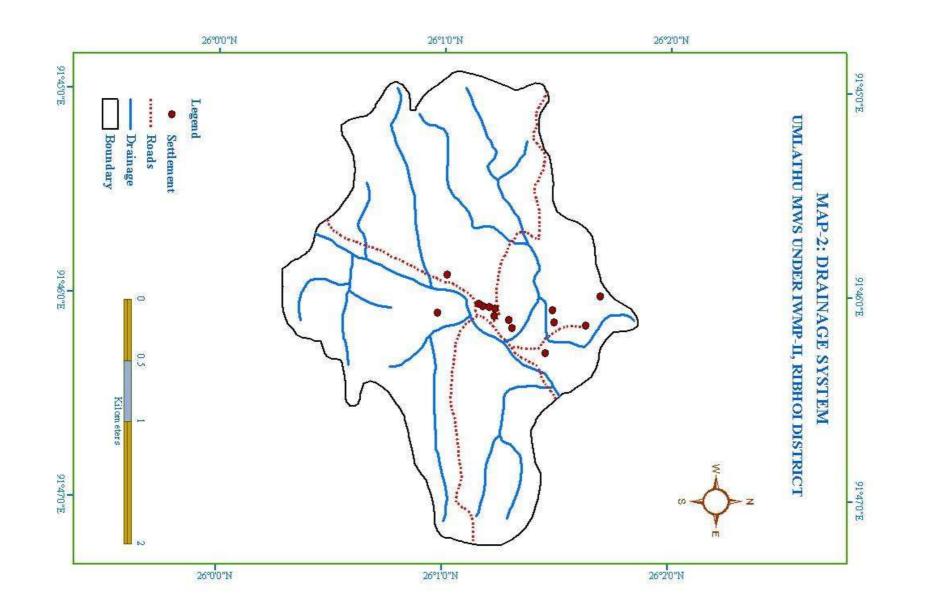


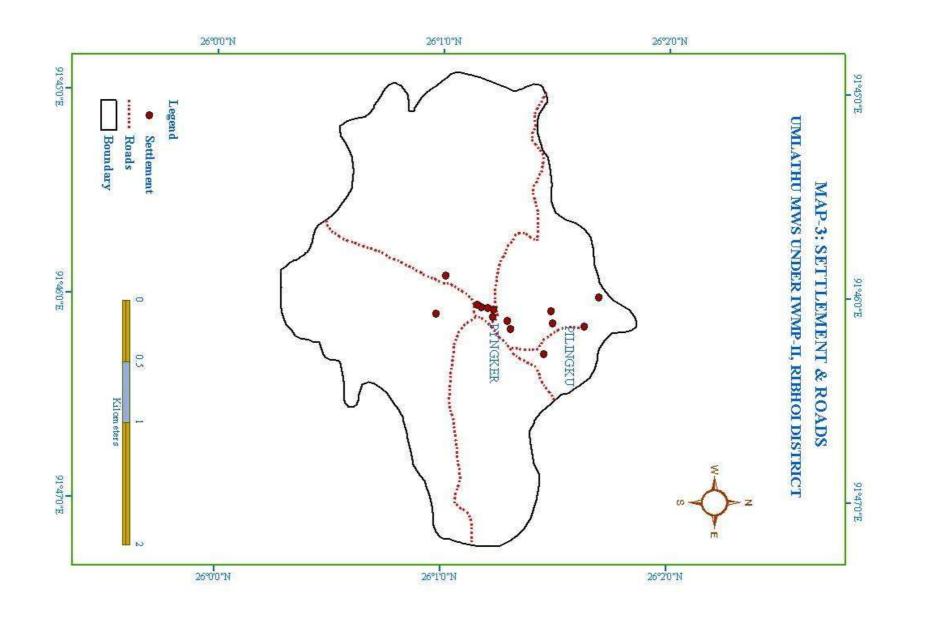


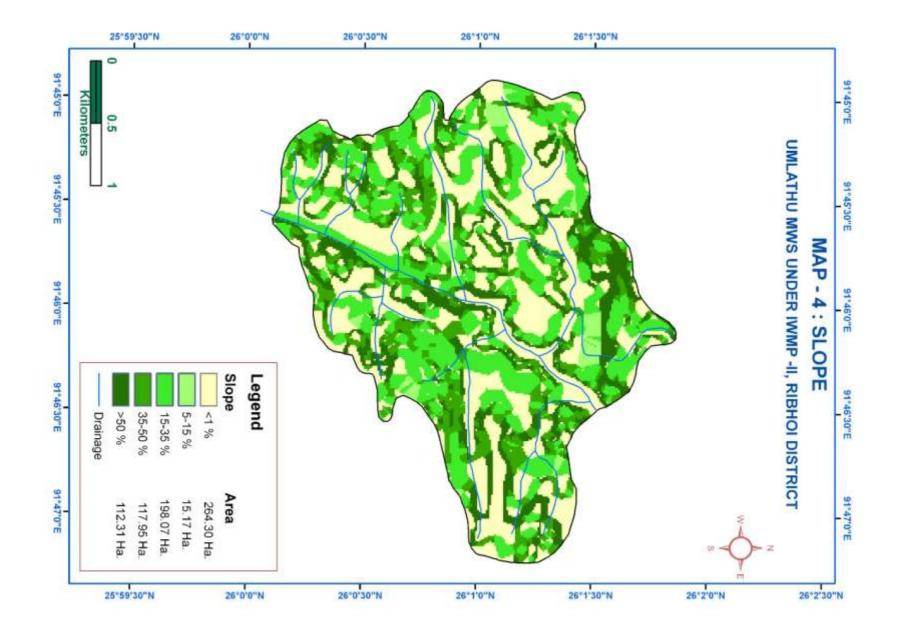
ANNEXURE II

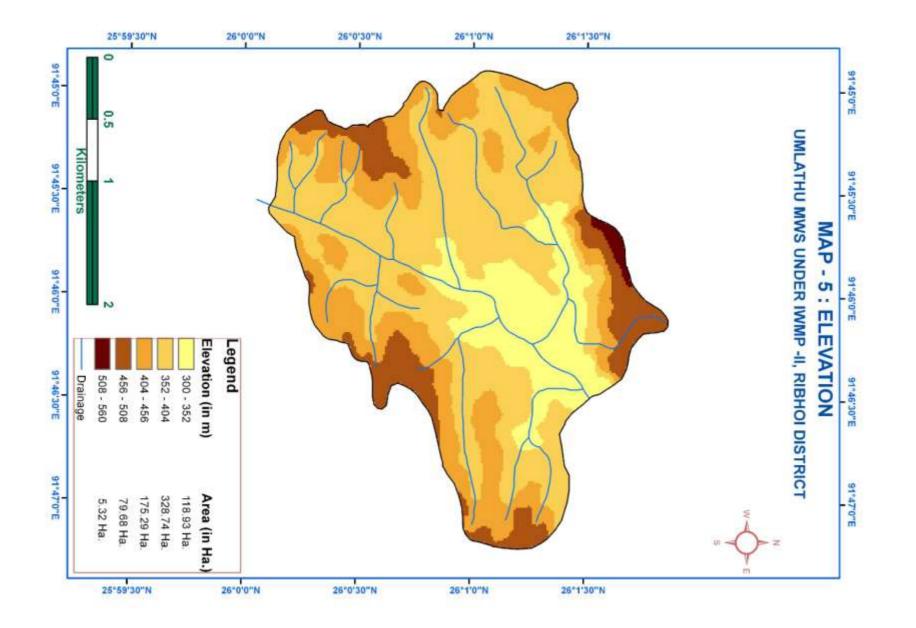
SOCIO-ECONOMIC SURVEY DETAILS-NA

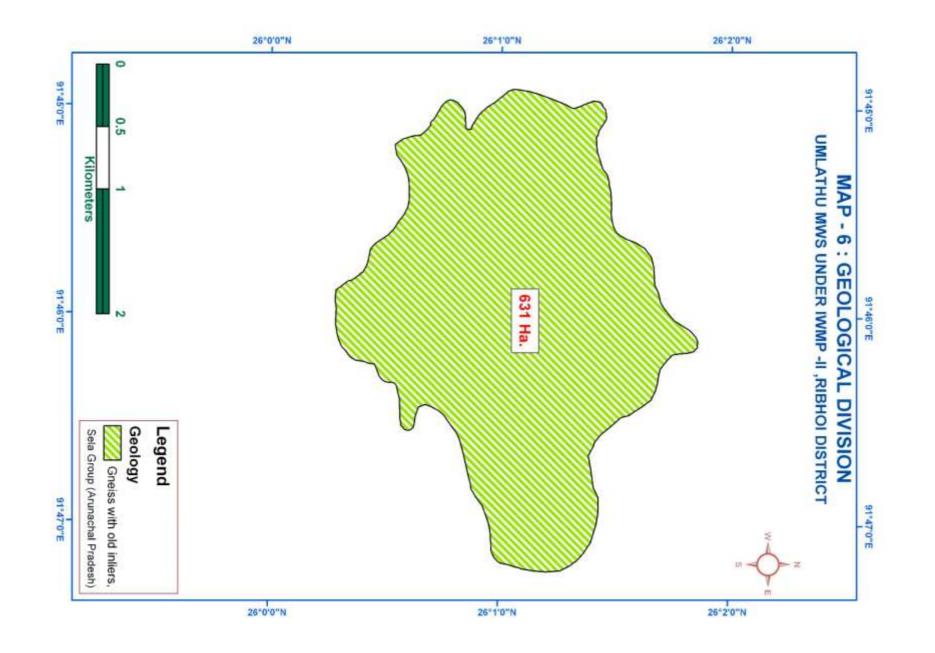


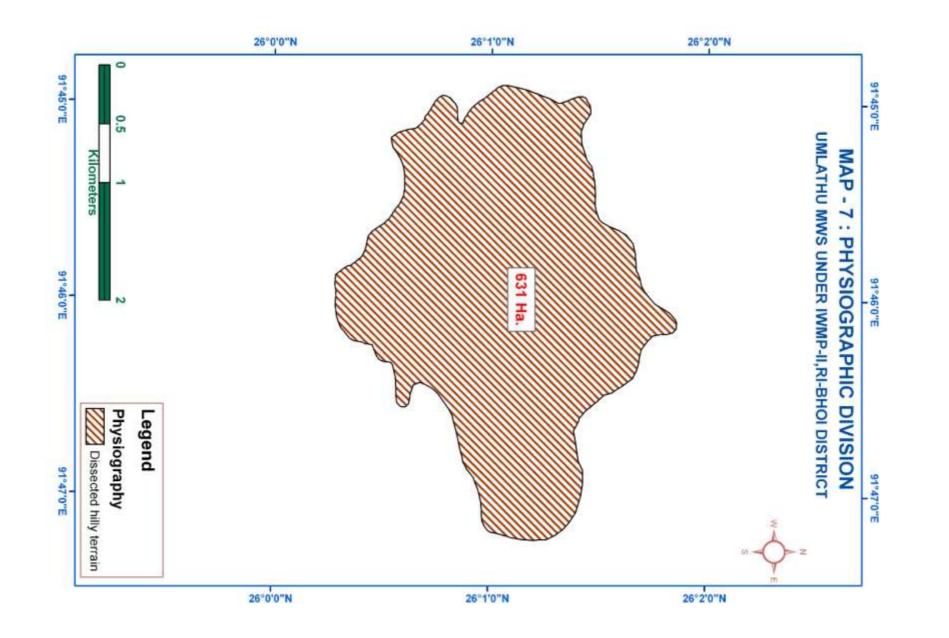


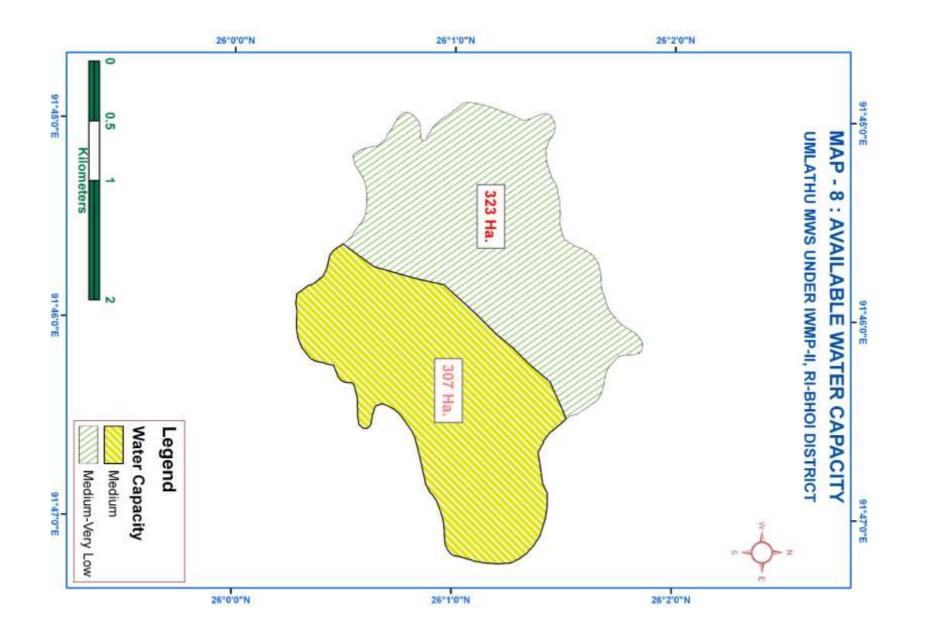


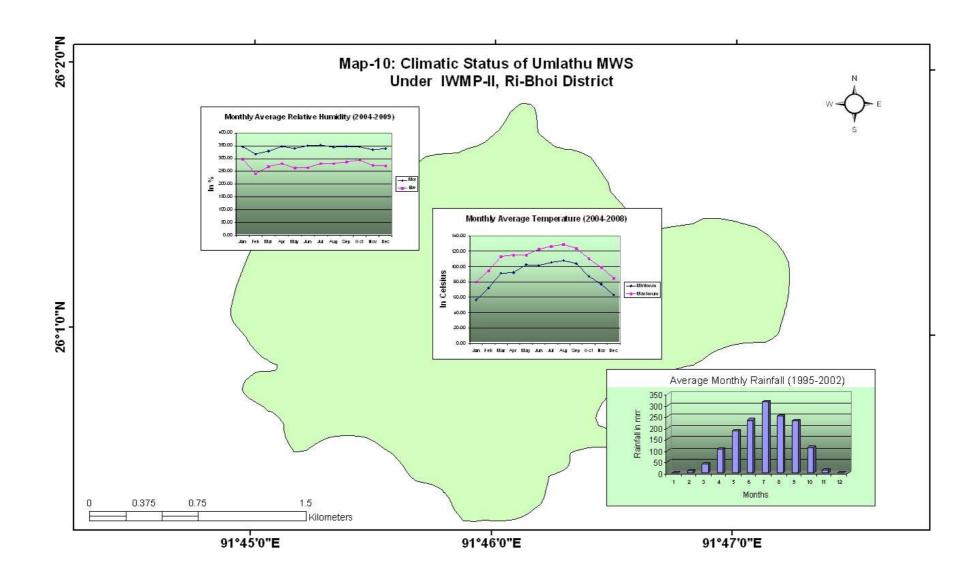


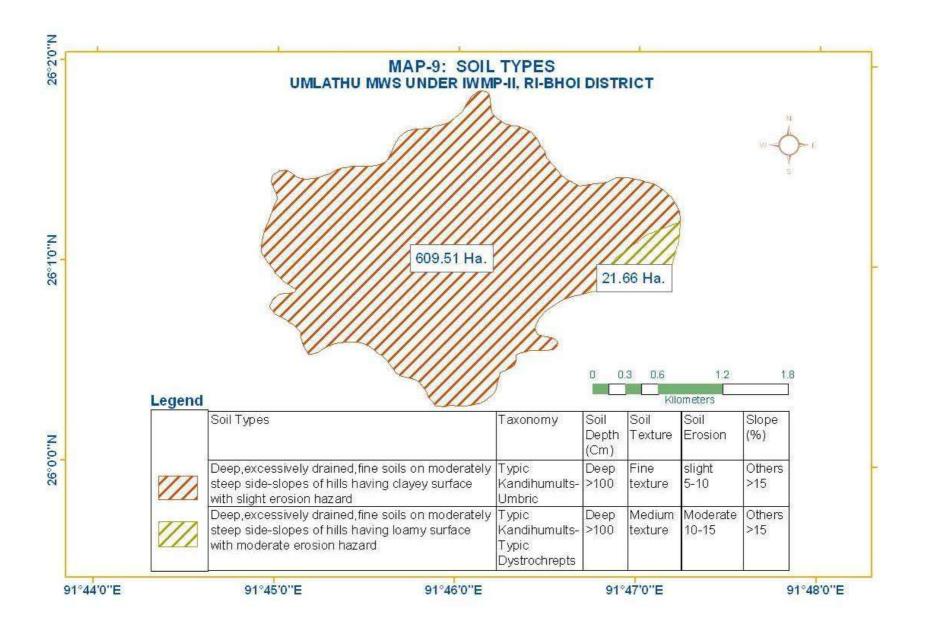


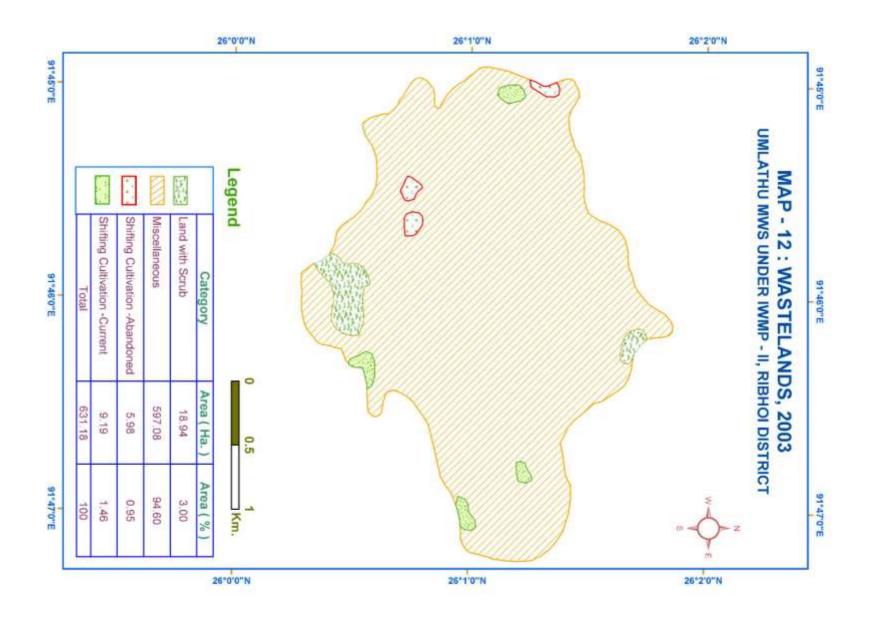


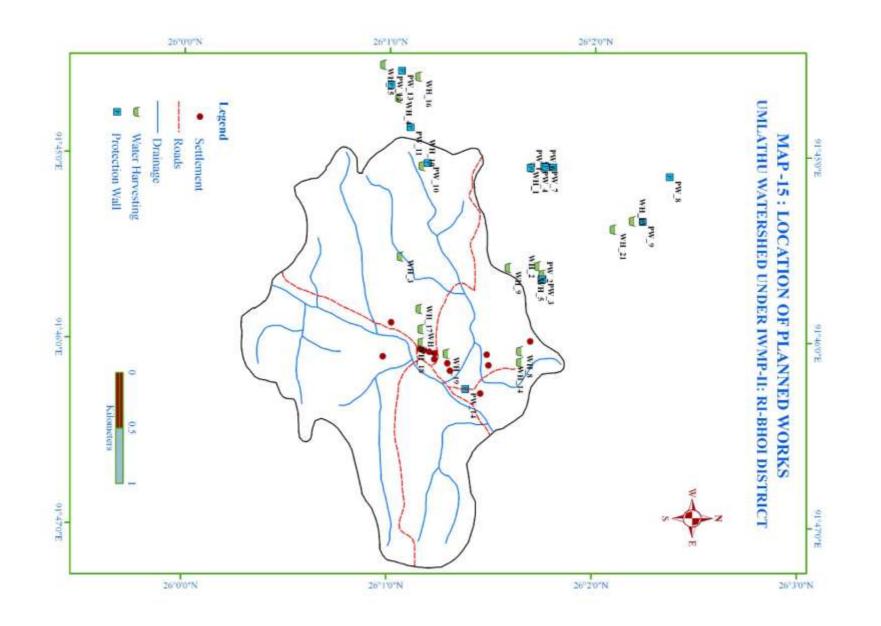












ANNEXURE III

COST ESTIMATES

<u>MODEL NORMS PER HECTARE FOR AGRO – HORTICULTURE WITH CITRUS FRUIT</u> (INTEGRATED WATERSHED MANAGEMENT PROGRAMME) (Rate as per PWD, SOR for R&B 2008 – 2009)

Spacing - 8m x 6.3m

Plant Density - 200 Nos.

A.		Preliminary works				
	I.	Site clearance				
		3 mandays @ Rs.100/- per manday		-	Rs. 30	00.00
		II. Pit digging (pit size 0.45m x 0.45m x	(0.45m)			
		200 Nos. @ Rs.5/- each		-	<u>Rs.100</u>	00.00
			Total	-	Rs.130	00.00
B.		<u>First year Planting</u>				
		I. Cost of planting materials				
		200 Nos. @ Rs.10/- each			-	Rs.2000.00
		II. Cost of planting 200 Nos. @ Rs. 3/-	each		-	Rs. 600.00
		III. Weeding two times				
		20 mandays @ Rs.100/- per manday			-	<u>Rs.2000.00</u>
			Total	-	Rs.460	00.00
C.		Second year Planting				
		I. Refilling vacancy (10%)			-	Rs. 360.00
		II. Weeding two times				
		20 mandays @ Rs.100/- per manday			-	Rs.2000.00
		III Plant protection measures including				
		cost of chemical		-	<u>Rs.</u> 34	0.00
			Total	-	Rs.270	00.00
		Grand Total $A+B+C = Rs.1300.00 + Rs.4600$.	00 + Rs.2700.	= 00	Rs.860	00.00

(Rupees Eight thousand six hundred) only.

<u>MODEL NORMS PER HECTARE FOR AFFORESTATION WITH PINE/</u> <u>NON-PINE (INTEGRATED WATERSHED MANAGEMENT PROGRAMME)</u> (Rate as per PWD, SOR for R&B 2008 – 2009)

Spacing 6m x 5.5m Plant Density – 300 Nos.

J. Jungle clearance etc. 5 mandays @ Rs.100/- per manday	-	Rs. 500.00
II. Pit digging (pit size 0.30m x 0.30m x 0.30m) 300 Nos. @ Rs.4/- each Total	-	<u>Rs. 1200.00</u> - Rs. 1700.00
B. <u>First year Planting</u>		
I. Cost of planting materials 300 Nos. @ Rs.8/- each	-	Rs. 2400.00
II. Cost of planting 300 Nos. @ Rs. 2/- each	-	Rs. 600.00
III. Weeding two times 20 mandays@ Rs.100/- per manday	-	Rs. 2000.00
IV. Fire protection measures 5 mandays @ Rs.100/- per manday Total	-	<u>Rs. 500.00</u> - Rs. 5500.00
C. <u>Second year Planting</u>		
I. Vacancy refilling (10%)	-	Rs. 400.00
II. Weeding two times 20 mandays@ Rs.100/- per manday	-	Rs. 2000.00
III. Fire protection measures5 mandays @ Rs.100/- per mandayTotal	-	<u>Rs. 500.00</u> - Rs. 2900.00
Grand Total A+B+C = Rs.1700.00 + Rs.5500.00 + Rs.2900.00 =	Rs.101	00.00

B.

Preliminary works

(Rupees Ten thousand one hundred) only.

ANNEXURE IV

MoA, SUB COMMITTEE DETAILS ETC.



T	çn	4	50	ы	+	4. Objectives :	3 Date o	2. Regis	1. Name		Cov			1 .	
	To perform the duties, roles and responsibilities of the Society through the Governing Body listed in Rule 11 of the Constitution.	To build up, associated links closely with village durbar / council for coordinating and convergence of rural development programmes within the watershed projects for holistic and realistic development of watershed community.	To promote empowerment of the village / watershed community socially, economically financially, etc. with a sense of ownership / rights to ownership and responsibility and accountability.	To promote facilitation of social mobilization, community organization at the village / watershed ievel, building the capacities of village / watershed communities in planning and implementation and to ensure equity arrangements.	To involve primary stakeholders at the centre of Planning, Budgeting, Implementation and Management of Watershed Projects.	ives :	Date of establishment :	Registration Office	1. Name of Association :		Covering village () Old Tasku (i) Lailed Pin (ii) Lailed Tighigunder IWMP				
Laster Laster red Committe	the duties, le 11 of the	p, associat e of rural developm	- 11 B	e facilitatio level, buildi ition and to	primary sta nt of Water						ige (i) old				
STEL IE	roles and Constitutio	developme ent of wate	ment of the sense of	n of social ng the cap ensure equ	shed Proje		Committee, villag C&RD Block, J.) P.ONevg fork.	of Association:	UMSYEP		Tasku		Memora		
Date Date	responsibi	ant program ershed com	proverment of the village / watershed community socially, economically, with a sense of ownership / rights to ownership and responsibility and	al mobiliza vacities of v uity arrang	at the cen cts.		Committee, village OLD TASKU C&RD Block Ti Yang P.O. Nengholu	ē	YEP		(ii) Lail	UMSYEI	Memorandum of Association		
California a	lities of the	n village d nmes with imunity.	/ watersho p / rights	village / wa ements.	tre of Plan		TAS	UMSVEI	WMP - II	Ri.	ad Pin (i	VEI	Associat		
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-I Committee	trough the	uncil for c ershed pro	hip and re	mmunities	geting, Imp		PS Pathaukhmah	1 1	1	Living C & RD Block	Trakijun	. Watershed Committee			
1	Governing	jects for h	y, econori spansibilit	in plannin	lementatio			Watershee	JIE ANGCERD	tD Block, eghalaya	der IWMH	ommittee			1
P-II Co	Body	nolistic	hically, ly and	ng and	on and		Meghalaya	Watershed	under		P (1)				а. С

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E P.T.)			LAILAD JUNG KIENS	-de-	-de-	LAILAD RIM	- do-	-de -	- do -	-de-	-do-	do '	ě.	Lailed Implierg	Old Tasker	Address
A				k	-AF	-do-	- du-	-do-	-de-	-do-	-de-	k	MEMBER	SECRETARY	VICE - CRARMAN	CHAIR MANN	Designation

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	12	1	10	9	8	4	03	Ch.	4	ω	N	-	SI.	6. W Asso	20	10	18	0	
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	To perform the duties, roles and responsibilities of the Society through the Governing Body listed in Rule 11 of the Constitution.	To build up, associated links closely with village durbar / council for coordinating and convergence of rural development programmes within the watershed projects for holistic and realistic development of watershed community.	To promote empowerment of the village / watershed community socially, economically financially, etc. with a sense of ownership / rights to ownership and responsibility and accountability.	To promote facilitation of social mobilization, community organization at the village / watershed level, building the capacities of village / watershed communities in planning and implementation and to ensure equity arrangements.	To involve primary stakeholders at the centre of Planning, Budgeling, Implementation and Management of Watershed Projects.	- *	ablishn			on Off		sociat	Ri-Bhad	ALAGAN.	Ing village &	2		
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Photographs of PRA Exercises conducted at Pahamjula

under Umlathu Watershed IWMP-II





