

#### **GLIMSES OF THE PROJECT**

1. Name of the State ~ Meghalaya

2. Name of the District ~ Ri-Bhoi District

Name of the C&RD Block ~ Umling C&RD Block

4. Name of the villages ~ (i) Umsukun

~ (ii) Pahamrioh Lum

~ (iii) Mawiong

~ (iv) Mawryngkang

~ (v) Umsehkhlieng

5. Name of the Project ~ Ri-Bhoi District I.W.M.P – III

6. Total Geographical Area ~ 1632.00 Ha.

7. Total Treatment Area ~ 1000.00 Ha.

8. Total Project Cost ~ 150.00 Lakhs

9. Project Duration ~ 5 years

10 Project Implementing Agency~ Soil & Water Conservation Ri-Bhoi Division, Nongpoh

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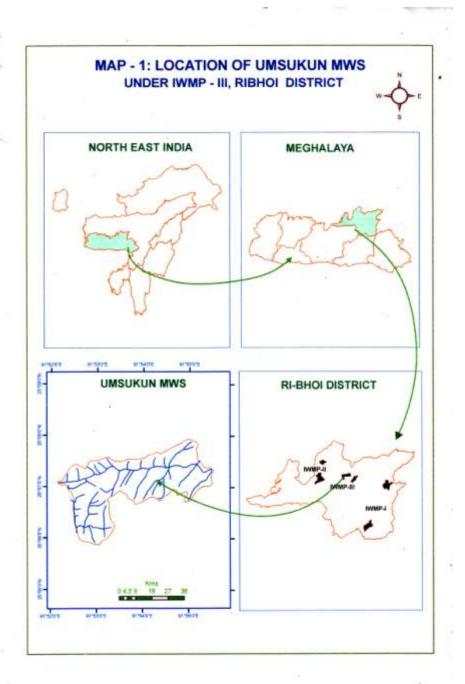
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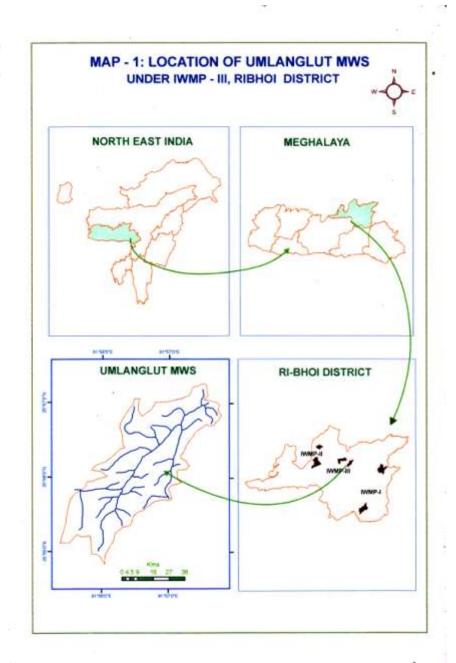
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#### CHAPTER I

#### **INTRODUCTION AND BACKGROUND**

#### 1.1 Project Background:

The Umsukun & Umlanglut (IWMP-III) project is located in Umling C&RD Block, RiBhoi District of Meghalaya. Consisting of a two micro-watershed, the Umsukun project area is drained to the Umsukun Sream and its tributaries flowing in a southwest to east direction and the Umlanglut project area is drained to the Umlanglut Sream and its tributaries flowing in a southeast to southwest direction. The total area is 1632 Ha. with 1000 Ha to be treated under the Integrated Watershed Management Programme (IWMP).

Both the Umsukun & Umlanglut (IWMP-III) Project area are located at a distance of about 12 km and 20 km from Nongpoh the District Head Quarter and about 62 km and 70 km from Shillong the State Capital respectively. A total of five (5) villages are covered under the project. These are –

- i) Umsukun village
- ii) Pahamrioh Lum village
- iii) Mawiong village
- iv) Umsehkhlieng village
- v) Mawryngkang village

#### (a) Micro-watershed Informmation:

The micro-watersheds codes are **3B2A1**a2h and **3B2A2**b1a, as codified by the North East Space Application Centre (NESAC). The total area of the micro-watershed is 1632 Ha. with 1000 Ha to be treated under the Integrated Watershed Management Programme (IWMP).

#### **Need and Scope for Watershed Development:**

The micro-watersheds codes are **3B2A1**a2h and **3B2A2**b1a falls under the Medium Priority category as per the prioritization of watersheds by the North East Space Application Centre (NESAC). Out of the 5 villages, only Pahamrioh Lum village have all weather road connectivity. The farmers are all small and 66 households are below the poverty line, which is 31% of the total households..

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.

#### (b) Other developmental projects/schemes running in the Project Area:

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

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

### CHAPTER II GENERAL DESCRIPTION OF THE PROJECT AREA

#### GENERAL DESCRIPTION OF THE PROJECT AREA

- 2. Name of the Project:- The Project nomenclature is derived from the Wah Umsukun river and hence it is named as Umsukun Integrated Watershed Management Project and also from the Wah Umlanglut river and named as Umlanglut Integrated Management Project.
- **Location:** Both the Project are located within the area of Raid Nongkhrah and Raid Lyngdoh under Umling C&RD Block of Ri-Bhoi District, Nongpoh. Umsukun Watershed is situated about 12 kms. From the District Headquarter, Nongpoh and Umlanglut Watershed is situated about 20 kms. From the District Headquarter, Nongpoh. The geographical location of Umsukun is between 91°52'E to 91°55'E Longitude and 25°55'N to 25°59'N Latitude and 91°56'E to 91°57'E Longitude and 25°55'N to 25°58'N Latitude of Umlanglut Watershed. There are 5 (five) villages within the Watershed as follows:-
  - (i) Umsukun village
  - (ii) Pahamrioh Lum village
  - (iii) Mawiong village
  - (iv) Mawryngkang village
  - (v) Umsehkhlieng village
- **4. Area and Physiography:-** The geographical area of the project is 1632.00 Ha. of which 1000.00 Ha. is proposed for treatment under different Soil & Water Conservation activities. Physiographically, the area is undulating with an altitude ranging from 420 m to 820 m above mean sea level.

1	2	3	4	5	6	7	8	9
SI. No.	Names of States	Name of District	Names of Projects	Elevation (metres)	Slope range (%)	Order of watershed Sub/Micro- watershed	Major streams	Toposequence (Soil series)
1	Meghalaya	Ri-Bhoi District	Ri-Bhoi IWMP - III	420 m to 820 m	< 1% to > 50%	Micro-Watershed	Umlanglut Stream	

5.	Drainage:-	The V	Vatersheds	are dra	nined by	a networl	of t	tributaries	of which	Umsukun	river and	Umlanglut	river are	e the main	drainage to	which	all the	streams	and r	ivulets
drained																				

6. Soil:- The soil is deep, excessively drained, fine soil on moderately steep side slopes of hills having clayey surface with moderate to slight erosion hazard.

### 6 (A):-DETAILS OF SOIL EROSION IN THE PROJECT AREAS:

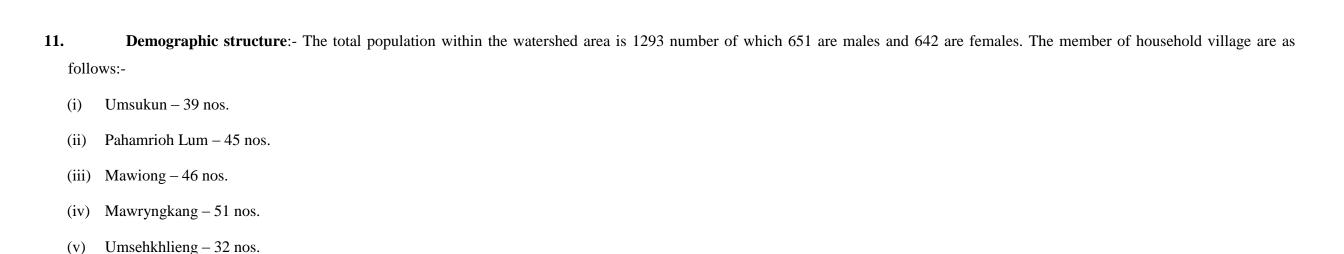
1	2	3	4	5	6	7	8	9
SI. No.	Names of States	Names of District	Names of Projects	Cause	Types of erosion	Area affected ((ha)	Run-off (mm/ year)	Average soil loss (Tonnes/ ha/ year)
1	Meghalaya	Ri-Bhoi District	Ri-Bhoi IWMP - III	Water erosion				
				а	Sheet	NA	NA	NA
				b	Rill	NA	NA	NA
				С	Gully	NA	NA	NA
				Sub	total			
				Wind erosion		NA	NA	NA

7. Climate:- The area is hot in summer and remain warm throughout the year. The average rainfall annually is 1274 mm (Source: Statistical Hand book, Ri-Bhoi)

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

1	2	3	4	5	6	7		8	9	
Sl.	Name of	Name of the Agro-	Area	Names of the	Names of the	Major soil types	Major soil types		Major	crops
No.	State	climatic zone	(in ha)	districts	Projects	a) Type	b) Area (ha)	(preceding 5 years' average	a) Name	b) Area (ha)
						Deep excessively drained fine soils			Paddy,	96 ha.
		Humid		Ri-Bhoi	Ri-Bhoi	and moderately steep slope of hills			Ginger	35 ha.
1	Meghalaya		500 ha.			· · · · · · · · · · · · · · · · · · ·	1632 ha.	Below 2000 mm	Turmeric	20 ha.
		and warm		District	IWMP - III	having loamy and clayey surface with moderate and slight erosion hazard			Yam	20 ha.
						moderate and stight erosion hazard			Chilli	6 ha.
	Total									177 ha.

- **8. Agricultural Activities:-** Agriculture is the main occupation of the people of the watershed areas. The principal agricultural crops are paddy, ginger, yam, chillies, turmeric etc. However few horticultural crops like pineapple, arecanut, banana etc. are cultivated in the Watershed area.
- **Natural vegetation:** Most of the forest species were extinct or not seen in the areas due to repeated jhumming. However some forest species like Shorea robusta, Artocarpus heterophyllus, Albizzia species, Bahaunia variegetta etc. are seen in the Watershed Area.
- **Socio-economic Status:-** Economically, the area is still backward in nature. The main reason is due to the primitive way of agricultural practices like jhumming and the absence of basic infrastructural facilities like good roads, drinking water, sanitation etc.



12. Livestock: There are 4 (four) kind of livestocks farming being farmed in the Watershed area namely, Poultry, Piggery, Goatery and Cattle.

#### 13. Infrastructural facilities:-

- (a) Roads:- The villages in the project area are connected by Katcha Road only which can be used during winter season only except Pahamrioh Lum village.
- **(b) School:-** There are only 4 (four) Lower Primary and 1 Upper Primary school within the project area of which 1 (one) Lower Primary School at Pahamrioh Lum run by the Government and the rest run by the Mission. The Upper Primary School is located at Umsukun village.
- (c) Electricity:- Electricity connections to all villages in the Watershed area have been provided by the MeSEB
- (d) Health:- No Public Health Centre is available in the Watershed area. However, the villagers of Umsukun, Mawiong and Pahamrioh Lum depend their health facilities at Nongpoh Civil Hospital which is about 10 to 15 kms and the villagers of Mawryngkang and Umsehkhlieng depend their health facilities at Umden PHC which is about 12 to 20 kms.
- (e) Water supply:- Drinking water supply have been provided by the PHE Department. However, during the lean season, the villagers have to depend upon the natural springs available in the area.
- (f) Marketing:- The villagers of Umsukun Watershed depend their marketing at Nongpoh market while the villagers of Umlanglut Watershed depend their marketing at Umden market.

#### 13.1:- DETAILS OF INFRASTRUCTURE IN THE PROJECT AREA:

1	2		3		4	4	
Name of District	Name of Project		Parameters:		Sta	tus	
Ri-Bhoi District	Ri-Bhoi IWMP - III	(i)	No. of villages connected to the main road by an all-weather road.	Nil			
		(ii)	No. of village provided with electricity	2 nos.			
		(iii)	No. of households without access to drinking water	Nil			
		(iv)	No. of educational institutions:	(P)	(S)	(HS)	(VI)
		(17)	Primary (P)/ Secondary (S)/ Higher Secondary (HS)/ Vocational institution (VI)	2 nos.	-	-	<u> </u>
		(v)	No. of village with access to Primary Health Centre	2 nos. – 12-	20 kms to Um	den PHC	
		(vi)	No. of village with access Veterinary Dispensary	2 nos. – 12-	20 kms to Um	den	
		(vii)	No. of village with access Post Office	- do -			
		(viii)	No. of village with access Banks	- do -			
		(ix)	No. of village with access Markets/ mandis	- do -			
		(x)	No. of village with access Agro-Industries	Nil			
		(xi)	Total quantity of surplus milk	Nil			
		(xii)	No. of milk collection centres	(U)	(S)	(PA)	(O)
		(XII)	(e.g. Union (U)/ Society (S)/ Private agency (PA)/ Others (O))		,		
		(xiii)	No. of villages with access to Aganwadi Centres	2 nos.			
		(xiv)	Any other facilities with no. of villages (please specify)				

14:- 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).

#### 14.1:- DETAILS OF LAND HOLDING PATTERN IN THE PROJECT AREA:

#### A.UMSUKUN MWS

1	2	3	4	5		6		
Name of District	Name of the	Types of	No. of	No. of BPL		Land hold	ing (ha)	
Name of District	Projects	Farmer	households	households	Irrigated	Rainfed	Others	Total
Ri-Bhoi District	Ri-Bhoi IWMP -	(i) Large						
	III	(ii) Small	128	24	Nil	53 ha.	128.18 ha	180.48 ha.
		(iii) Marginal	2		Nil	.7 ha		.7 ha
		(iv) Landless	Nil					
		Sub - Total	130	24		53 ha.	128.18 ha.	181.18 <b>ha.</b>

#### **B. UMLANGLUT MWS**

1	2	3	4	5		6		
Name of District	Name of the	Types of	No. of	No. of BPL		Land holdi	ing (ha)	
Name of District	Projects	Farmer	households	households	Irrigated	Rainfed	Others	Total
Ri-Bhoi District	Ri-Bhoi IWMP -	(i) Large						
	III	(ii) Small	83	42	Nil	124 ha.	Nil.	124 ha.
		(iii) Marginal			Nil			
		(iv) Landless	Nil					
		Sub - Total	83	42		124 ha.	Nil.	124 ha.

#### 14.2:-DETAILS OF COMMON PROPERTY RESOURCES OF THE PROJECT AREAS:

1	2	3		4				5		
Name of	Name of the	CPR	Aı	Total Area (l rea owned/ In pos	A	Area available for treatment (ha)				
District	Projects	Particulars	Pvt. Person	Govt. (specify deptt.)	PRI	Any other (Community)	Pvt. Person	Govt. (specify deptt.)	PRI	Any other (Community)
Ri-Bhoi	IWMP - III	(i) Wasteland/ degraded land	113 ha.				295 ha.			705 ha.
District		(ii) Agricultural land	177 ha.							
		(iii) Pastures								
		(iv) Orchards	5 ha.							
		(v) Village woodlot								
		(vi) Forest	30 ha.			58 ha.				
		(vii) Village Ponds/ Tanks	5 nos.							
		(viii) Community Buildings								
		(ix) Weekly Markets				Nongpoh				
		(x) Permanent Markets				Nongpoh				
		(xi) Temples/ Places of				Church				
		worship				5 nos.				
		(xii) Others (Pl. specify)				1249 ha.				
	Total		325 ha.			1307 nos.	295 ha.			705 ha.

# CHAPTER III PROJECT PLANNING & INSTITUTION BUILDING

#### **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) GIS & Remote Sensing: To facilitate the process of prioritization and planning Geographic Information System was use. The land use and land cover (LULC) maps were prepared by the North Eastern Space Application Centre (NESAC) using the LISS III images (2006). The activities were located on the field by using GPS and accordingly transferred to the maps on GIS platform.

#### 3.2:-DETAILS OF SCIENTIFIC PLANNING AND INPUTS IN IWMP PROJECTS:

1	2	2
Total no. of projects sanctioned	Scientific criteria/ inputs used	No. of projects in which scientific criteria were used
	(A) Planning	
	Cluster approach	
	Whether technical back-stopping for the project has been	Yes, NIRD,
	arranged? If yes, mention the name of the Institute.	Guwahati
	Baseline survey	Yes
	Hydro-geological survey	Ni
	Contour mapping	Yes
	Participatory Net Planning (PNP)	PRA
	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	
	(3) SLNA and DoLR	Yes
	Availability of GIS layers	
	Cadastral map	No
	2. Village boundaries	Yes
	3. Drainage	Yes
	4. Soil (Soil nutrient status)	Yes
	5. Land use	Yes
	6. Ground water status	Yes
	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	rmalized difference vegetation index (NDVI)#	
We	eather Stations	
(B)	Inputs	
1.	Bio-pesticides	Yes
2.	Organic manures	Yes
3.	Vermicompost	
4.	Bio-fertilizer	Yes
5.	Water saving devices	
6.	Mechanized tools/ implements	Yes
7.	Bio-fencing	Yes
8.	Nutrient budgeting	
9.	Automatic water level recorders & sediment samplers	Yes
An	y other (please specify)	

#### 3.3:-PROJECT LEVEL IMPLEMENTING AGENCIES (PIAS):

#### Watershed project-wise functionaries:

1	2		3
Names of Districts	Names of projects		Details of PIA
Ri-Bhoi	Ri-Bhoi	(i) Type of organization#	Government
District	IWMP - III	(ii) Name of organization	Soil & Water Conservation Ri-Bhoi Division
		(iii) Designation & Address	DS&WCO, Soil & Water Conservation Ri-Bhoi Division
		(iv) Telephone	0363 8232257
		(v) Fax	0363 8232257
		(vi) E-mail	No

#### 3.4:-DETAILS OF WATERSHED DEVELOPMENT TEAMS (WDTS) IN THE PROJECT AREAS OF THE COUNTRY: STATE-WISE:

1	2	3	4	5	6	7	8
Names of Districts	Names of projects	Names of WDT members	M/F#	Age	Qualification / Experience	Description of professional training	Role/ Function##
Ri-Bhoi	Ri-Bhoi	Smti. V. Papang, DS&WCO, (Leader)	F		BSc Agri.	Agriculture & Soil Conservation	A to I
District	IWMP - III	Shri. A.B.S. Swer, AS&WCO, (Agronomy)	M		BSc Agri.	Agriculture & Soil Conservation	A to I
		Shri. S.S. Kharsyntiew, AS&WCO, (Forestry)	M		Dip. in Forestry	Agriculture & Soil Conservation	A to I
		Shri. A.B. Bhattacharjee, AS&WCO, (Engineer)	M		Dip. in Engineering	Civil Engineering	A to I
		Shri. B.P. Marwein, R.O. (Member)	M		Dip. in Forestry	Agriculture & Soil Conservation	A to I
		Shri. A.M. Kharmutee, R.O. (Member)	M		P.U.	Agriculture & Soil Conservation	A to I
		Shri. E. Kharbhih, R.O. (Member)	M		H.S.L.C.	Agriculture & Soil Conservation	A to I
		Shri. K. lawphniaw, B.O. (Member)	M		H.S.L.C.	Agriculture & Soil Conservation	A to I

# M – Male, F - Female

In column 10, only the letter, assigned as below, needs to be typed, except for 'J', where the type may be specifically mentioned.

A. Participatory Net Planning (PNP) and Participatory Rural Approach (PRA), Training and Capacity Building

B. Planning C. Maintenance of Accounts

D. Signing of cheques and making payments E. Social audit

F. Engineering surveys, drawings and cost estimations G. Physical verification & measurement

H. Record of labour employed I. Livelihood opportunities for landless

J. Post project operation, maintenance of assets K. Any other (please specify)

#### 3.5:-VILLAGE LEVEL INSTITUTIONS:

#### **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		Function/s assigned#
Ri-Bhoi	Ri-Bhoi	Umalnglut	Not yet	President, Shri. T. Makri	М		ST										A to I
District	IWMP - III	WC		Secretary, Shri. A.M. Kharmutee	М		ST										A to I
				Member, Shri. L. Lyngdoh	М		ST										A to I
				Member, Shri. B. Khymdeit	M		ST										A to I
				Member, Shri. K. Lyngdoh	M		ST										A to I
				Member, Smti. A. Lyngdoh	F		ST										A to I
				Member, Shri. S. Makri	M		ST										A to I
				Member, Shri. B. Manih	М		ST										A to I
				Member, Smti. S. Lyngdoh	F		ST										A to I
		Umsukun	Not yet	President, Shri. Bilson Nongrum	М		ST										A to I
		WC &		Secretary, Shri. S.S. Kharsyntiew	М		ST										A to I
				Member, Shri. Stephan Syiem	М		ST										A to I
				Member, Shri. Rang Khngkai	М		ST										A to I
				Member, Shri. Das Khongkai	М		ST										A to I
				Member, Shri. Swon Maring	М		ST										A to I
				Member Shri. John Nongrum	М		ST										A to I
				Member Shri. Ambros Maring	М		ST										A to I
				Member, Smti. Lily Syngkli	F		ST										A to I
				Member, Smti. Ping Makri	F		ST										A to I
L				Member, Smti. Trina maring	F		ST										A to I

<sup>\*</sup> From column no.2, the total number of States, from column no.6, the total number of projects; from column no.6, 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.

PNP and PRA

D. Signing of cheques and making payments

Maintenance of Accounts Supervision of construction activities F. Cost Estimation

H. Record of labour employed

Verification & Measurement Any other (please sp Social Audit

#### 3.6: DETAILS OF SELF HELP GROUPS (SHGS) IN THE PROJECT AREAS:

1	2		3				4				5			6	
Names of	Nomes of		l no. of reg	istered S	SHGs	No. o	of men	nbers		No. o	f SC/ST catego			f BPL catego	in each ory
the Districts	Names of projects	With only Men	With only Women	With both	Total	Categories	M	F	Total	M	F	Total	M	F	Total
						(i) Landless	Nil								
Ri-Bhoi District	Ri-Bhoi IWMP –	Nil	4 nos.	Nil	4 nos.	(ii) SF					100% ST	100% ST	Nil		Nil
DISTRICT	III					(iii) MF		40	40						
						(iv) LF									

(M - Male, F - Female)

#### 3.7:- DETAILS OF UGS IN THE PROJECT AREAS:

1	2		3				4				5			6	
Name of	Names of		Total no.	of UGs		No	o. of men	bers			of SC h cate	/ST in egory		f BPL i catego	in each ry
District	Projects	Men	Women	Both	Total	Categories	М	F	Total	M	F	Total	M	F	Total
						(i)Landless									
Ri-Bhoi	Ri-Bhoi	1 no.	Nil	1 no.	2 nos.	(ii) SF	23 nos.	5 nos.	28 nos.	1 no. ST	1 no. ST	2 nos. ST	Nil	Nil	Nil
District	IWMP – III					(iii) MF									
						(iv) LF									

(M - Male, F - Female)

<sup>\*</sup> From Column no. 2, 3 and 4, total no. of States, Districts and projects, respectively, from column 5 to 8, category-wise grand totals, may be given for the entire country at the end of the table.

<sup>\*</sup> From Column no. 2, 3 and 4, total no. of States, Districts and projects, respectively, from columns 5 to 8, category-wise grand totals, for the entire country may be given at the end of the table.

## CHAPTER IV PROJECT ACTIVITIES

#### PREPARATORY PHASE:

Entry Point Activities (EPA) (All financial figures in lakh Rs.)

1	2	3	4	5	6	7	8	9	10	11
SI.	State	District	Names of	Amount earmarked	Entry Point	<b>Estimated</b>	Expenditure	Balance	Expected	Actual autooma
No.	State	DISTRICT	Project	for EPA	Activities planned	cost	incurred	Dalalice	outcome	Actual outcome
1	Meghalaya	Ri-Bhoi District	Ri-Bhoi IWMP	6.00 lakhs	Washing place and drinking water	5.00	5.00	Nil	Nil	Nil
		DISTRICT	- 111		Footpath	1.00	1.00	Nil	Nil	Nil

#### 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 District	Ri-Bhoi IWMP – III	2 nos. Watershed Committee and 5 nos. Sub- Watershed Committee at each benefiting village	3 nos.	2 nos.	Participatory Rural Appraisal	NA	Done	Done	Done	Done	Entry point activities	15.00

#### WATERSHED WORKS PHASE:

1	2	3	4	5		6								7					
						Pre Proje	ect							Proposed Proje	ect				
61	Name of	Nome of	Name of	Tuno of		A		A	Augmentatio s	on/ repair of tructures	existing	C	Construction	on of new struct	ures		To	otal target	
SI. No	Name of States	Name of Districts	Name of Projects	Type of structures	No.	Area irrigated (ha)	Storage capacity	No	Area to be treated (ha)	Storage capacity	Estimated cost	No.	Area to be treated (ha)	Storage capacity (m³)	Estimated cost (in lakhs)	No.	Area to be treated (ha)	Storage capacity (m³)	Estimated cost (in lakhs)
1	Meghalaya	Bhoi	Ri-BHoi IWMP - III	(i) Tank								2 nos.		6.5 m <sup>3</sup>	0.48	2 nos.		6.5 m <sup>3</sup>	0.48
		District		(ii) Pond								23 nos.	48 ha.	48000 m <sup>3</sup>	11.89	23 nos.	48 ha.	48000 m <sup>3</sup>	11.89
				(iii) Lake															
				(iv) Check Dam								31 nos.	119 ha.	62000 m <sup>3</sup>	9.61	31 nos.	119 ha.	62000 m <sup>3</sup>	9.61
				(v) Percolation Tank															
				(vi) Channel								13 nos.	69 ha.	13000 m <sup>3</sup>	5.88	13 nos.	69 ha.	13000 m <sup>3</sup>	5.88
				(vii) Any others (Protection wall)								4 nos.	8 ha.		2.94	4 nos.	8 ha.		2.94
			Total									73 nos.	244 ha.	1,23,006.5 m <sup>3</sup>	30.8	73 nos.	244 ha.	1,23,006.5 m <sup>3</sup>	30.8

#### ACTIVITIES RELATED TO SURFACE WATER RESOURCES IN THE PROJECT AREAS:

					8						9	10
				Achi	evement due t	o project					Changa in	
Augm	entation/ repair	of existing	structures	(	Construction o	f new structure	S	7	Total achieveme	ent	Change in	Change in
No	Area irrigated (ha)	Storage capacity	Expenditure incurred	No	Area irrigated (ha)	Storage capacity	Expenditure incurred (Rs. in lakhs)	Area irrigated (ha)	Storage capacity	Estimated incurred (Rs. in lakhs)	storage capacity (col. 8-6)	irrigated area (ha) Col. (8-6)
				2 nos.		6.5 m <sup>3</sup>	0.48		6.5 m <sup>3</sup>	0.48	6.5 m <sup>3</sup>	
				23 nos.	48 ha.	48000 m <sup>3</sup>	11.89	48 ha.	48000 m <sup>3</sup>	11.89	48000 m <sup>3</sup>	48 ha.
				31 nos.	119 ha.	62000 m <sup>3</sup>	9.61	119 ha.	62000 m <sup>3</sup>	9.61	62000 m <sup>3</sup>	119 ha.
				13 nos.	69 ha.	13000 m <sup>3</sup>	5.88	69 ha.	13000 m <sup>3</sup>	5.88	13000 m <sup>3</sup>	69 ha.
				4 nos.	8 ha.		4.31	8 ha.		4.31		8 ha.
					244 ha.	1,23,006.5 m <sup>3</sup>	32.17 lakhs	244 ha.	1,23,006.5 m <sup>3</sup>	32.17 lakhs	1,23,006.5 m <sup>3</sup>	244 ha.

#### ACTIVITIES RELATED TO RECHARGING GROUND WATER RESOURCES IN THE PROJECT AREAS:

1	2	3	4	5		6					7								8			9
					Pre	-project				Pro	posed targ	et								to project		Chan
SI.	Names of	Names	Names of	Type of		Area		mentation/ isting rech structures	arging		nstruction of rechargin structure	g	Total ta	arget		gmentation/ xisting rech structur	arging	Cor	nstruction rechar structi	ging	chievement	ge in irrigat ed
No.	States	of Districts	projects	structures	No.	irrigated (ha)	No.	Area to be irrigated (ha)	Estim ated cost		Area to be irrigated (ha)		Area to be irrigated (ha)		No.		Expendi- ture incurred			Expendi -ture incurred	Expendi- ture incurred	area (Col. 8-6) (ha)
				(i)Open wells																		
1	Meghalaya	Ri-Bhoi		(ii)Bore wells		Nil		Nil			Nil	`	Nil			Nil			Nil		Nil	Nil
'	iviegrialaya	District	IWMP - III	(iii)Any others																		
				(Pl. specify)																		
				Total for the project																		

#### ACTIVITIES EXECUTED BY USER GROUPS IN THE PROJECT AREAS.

1	2					3		
	Names of	N	lajor activities	of the UGs -	-Targets			
Names of Districts	Names of Projects		Structure/ a	ctivity propo	osed	No. of UGs involved	Estimated Cost	Amount of WDF to be
	Projects	SI. No.	Туре	No.#	Treatment (ha)	No. of UGS involved	Estimated Cost	collected (Rs.)

#### ACTIVITIES EXECUTED BY USER GROUPS IN THE PROJECT AREAS:

					4										
	Major activities of the UGs – Achievements														
	Structure/ activity  No. of UGs  Expenditure incurred  No. of mandays  Amount of WDF														
SI. No.	Туре	No.#	Treated Area (ha.)	involved	(Rs.)	SC	ST	F	collected (Rs.)						

#### ACTIVITIES RELATED TO LIVELIHOODS BY SELF HELP GROUPS (SHGS) IN THE PROJECT AREAS:

1	2		3	
		N	Iajor activities of	the SHGs
Names of the Districts	Names of projects	Name of activity	No. of SHGs involved	Average annual income from activity per SHG
		Rearing of Milch cow	1 no.	NA
		Grocery shops	3 nos.	NA
		Ginger cultivation	11 nos.	NA
		Piggery	10 nos.	NA

#### 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	sistance rece (Amount i	ived by the S in Rs.)	HG	Total annual	Total annual		of Sl raded		Total Amount of loan	No. of SHGs
given training	Loan from revolving fund	Training	Material	Others (pl. specify)	Income generated (Rs.)	Savings (Rs.)	I	II	III	sanctioned by the bank(s)	federated
	NA	2,50,000	12,50,000		NA	NA	Nil	Nil	Nil	Nil	Nil

#### OTHER ACTIVITIES OF WATERSHED WORKS PHASE:

1	2	3	3	4	‡	5	j		6	-	7		3	,	9		10	11		12	2	13
District	Names of projects	Ridge treat		Draina treat	_	Nurs rais	• •		and opment	Crop demo	onstrations	Pas develo			rinary vices		hery opment	Nor convent ener	tional	Any o (plea spec	ase	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)	III iakiis)
Ri- Bhoi	Ri-Bhoi IWMP - III	520 ha.	34.20 lakhs	77 nos. (244 ha.	32.17 lakhs			136 ha.	7.13 lakhs	20 units (5 ha.)	1.50 lakhs			17 units	7.3 lakhs	22 units	5.5 lakhs			284 units (95 ha.)	21.7 lakhs	109.50 lakhs
																				,		

#### DETAILS OF ENGINEERING STRUCTURES IN WATERSHED WORKS:

1	2	3		4			5		6				7							8	
			Ty	pe of treatmer	nt		Type of lan	d	Executing agenc	1		1	arge	t				ļ	Achie	vement	
District	Project	Name of structures	(i) Ridge area (R)	(ii) Drainage line (D)	iii) Land dev. (L)	(i) Private	(ii) Community	(iii) Others (pl. specify)	(i) UG (ii)SHG (iii) Others (pl. specify)	No. of units (No./cum./ rmt)		in I	akh)		Expected month & year of completion (mm/yyyy)	No. of units (No./ cu.m./ rmt)	incur	akh)	s. in	Status of comple-tion	Actual month & year of completion (mm/yyyy)
		01 11 11					.,			40.1	М	W	0	T			M۱	V 0	Т		, ,,,,,,
		Staggered trenching	R				community		W.C.	40 ha.		2.8			3 years						
		Contour bunding/Box Terracing			L	Private			Beneficiary	40 ha.		3.0			3 years						
		Graded bunding																			
		Bench terracing																			
Ri-Bhoi	Ri-Bhoi	Earthern checks dams		D		Private			Beneficiary	5 nos.		1.28			3 years						
District		Masonary stop dams																			
		Gully plug																			
		Gabion structures																			
		Underground dykes																			
		Field bunds																			
		Any others (pl. specify)																			

#### DETAILS OF ENGINEERING STRUCTURES IN WATERSHED WORKS.

							9										
						0ι	ıtcomes										
Reduction in	treated#   treated#   c   c   c   c   c   c   c   c   c																
run off (cu.m)	treated# (ha)	Pre- project	Post project	Pre- project	Post project	Pre-project	Post project	sc	ST	(Men)	Women	Total	SC	ST	Others	Women	Total
NA	244 ha.	NA		NA	-	NA	-	1	99	11500	7800	19300	1	99	166	47	213

#### DETAILS OF ACTIVITIES CONNECTED WITH VEGETATIVE COVER IN WATERSHED WORKS:

1	2	3		4			5		6			7				8	
			Туре	of treat	ment	Ty	/pe of	land	Executing agency			Target			,	Achievement	
District	Project	Name of structure/ work	(i) Ridge area (R)	(ii) Draina ge line (D)	(iii) Land dev. (L)	(i) Priv ate	(ii) Com munit y	(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	R				Com muni ty		Watershed Committee	28 ha.		2.82	3 years				
		Regeneration															
		Agro-forestry															
		Fuel wood															
		Fodder															
	D: Db -:	Horticulture	R			Priv ate			WC and Beneficiary	50 ha.		4.30	3 years				
Ri-Bhoi	Ri-Bhoi IWMP -	Pasture dev.							·								
District	IVVIVIP -	Nursery raising															
	III	Others – Betel leaf	R			Priv ate			WC and Beneficiary	72 ha.		5.82	3 years				
		Banana	R			Priv ate			Beneficiary	30 ha.		2.22	3 years				
		Arecanut	R			Priv ate			Beneficiary	60 ha.		7.60	3 years				
		Imp. Of Scrub Forest	R				Com muni ty		Watershed Committee	240 ha.		8.64	3 years				

<sup>#</sup> 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.

#### DETAILS OF VEGETATIVE STRUCTURES IN WATERSHED WORKS: PHASE – II (CONTD.):

							9							
							Outcon	nes						
D 1 4	Produ	ction	Inco	ome		I	Mandays g	enerated			N	No. of bene	ficiaries	
Reduction in run off	(quir	ntal)	(R	s.)		S								
(cu.m)	Pre-	Post	Pre-	Post	SC	T	Others	Women	Total	SC	ST	Others	Women	Total
(*******)	project	project	project	project										

#### **DETAILS OF ALLIED / OTHER ACTIVITIES:**

1	2	3		4		5	6			7
				Type of	land	Executing agency	Targ	et	Achie	vement .
District	Project	Name of activity@	(i) Private	(ii) Commun ity	(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)
		Tailoring			31 units	Individual	3.10	3 year		
		Carpentry			25 units	Individual	1.25	3 year		
		Kitchen gardening			213 units	Individual	5.325	3 year		
		Agriculture implement			213 units	Individual	5.325	3 year		
Ri-Bhoi	Ri-Bhoi	Rearing of milch cow			1 unit	SHG	0.80	3 year		
District	IWMP - III	Grocery shop			3 units	SHGs	1.20	3 year		
		Ginger cultivation			11 units	SHGs	5.50	3 year		
		Piggery farming			10 units	SHGs	5.00	3 year		
		Fishery			22 units	SHGs & individual	5.50	3 year		
		Poultry			6 units	SHGs & individual	1.50	3 year		
To	tal						34.50			

<sup>\*</sup> 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

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

#### **DETAILS OF ALLIED / OTHER ACTIVITIES:**

0.4											
Outco	mes										
Incom	e (Rs.)	Mano	lays g	enerated			No. c	f benefi	ciaries		
Pre-	Post	SC	ST	Others	Women	Total	SC	ST	Others	Women	Total
project	project	SC	31	Others	wonien	Total	SC	31	Others	Wolliell	Total

#### CONSOLIDATION AND WITHDRAWAL PHASE

Details of activities in the CPRs in the project areas:

1	2	3	4	5	6				7						
					Target				Achieveme	nt					
Names of the Districts	Names of projects	Name(s) of the villages	CPR particulars	Activity proposed	under the	Estimated expenditure (Rs.)	no. of beneficia-	bution to	treated	incurred	Actual no. of beneficiaries	No. mar	ıday	s	WDF collected (Rs.)
Ri-Bhoi District	Ri-Bhoi IWMP – III	Umsukun	D/Water		Nil	50,000	39	2500							
		Mawiong	D/Water		Nil	50,000	46	2500							
		Pahamrioh Lum	D/Water		Nil	50,000	45	2500							
		Umsiehkhlieng	D/Water		Nil	75,000	32	3750							
		Mawryngkang	D/Water		Nil	75,000	51	3750							
Total	•			•		3,00,000		15,000							

## CHAPTER V PROJECT PHASING & BUDGETING

#### WATERSHED ACTION PLAN FOR PROJECT – III UNDER INTEGRATED WATERSHED MANAGEMENT PROGRAMME RI BHOI DISTRICT – MEGHALAYA

NAME OF VILLAGE

NAME OF DISTRICT ~ Ri-Bhoi District NAME OF C&RD BLOCK ~ Umling C&RD Block

~ Umling C&RD Block ~ 1000 Ha.

TREATABLE AREA ~ 1000 Ha.
TOTAL PROJECT COST ~ 150.00 Lakhs

~ Mawryngkang ~ Umsehkhlieng

~ Pahamrioh Lum

~ Mawiong

~ Umsukun

SI.	Activities	First yea	ar 2009-10	Second ye	ear 2010-11		ar 2011-12	Fourth ye	ar 2012-13	Fifth yea	r 2013-14	То	tal
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
		(	5%	14	1%	50	)%	25	5%	5	3%	100	ງ%
1	ADMINISTRATION A. ADMINISTRATIVE COST												
i	Honorarium to Watershed Development Team – 2 Nos. @ Rs. 5000/- per month			0.4%	0.60	1.8%	2.34	0.6%	1.26			2.8%	4.20
ii	Honorarium to Watershed volunteer 6 Nos. @ Rs. 1500/- per month each			0.36%	0.54	1.5%	2.106	0.66%	1.134			2.52%	3.78
iii	Honorarium to Chairman Watershed Committee 2 Nos.  @ Rs. 1000/- per month			0.08%	0.12	0.40%	0.468	0.08%	0.252			0.56%	0.84
iv	Honorarium to Watershed Committee members for attending Watershed Committee meeting @ Rs. 100/- per month each			0.09%	0.14	0.42%	0.504	0.10%	0.276			0.61%	0.92
٧	Fees to chartered Accountant			0.13%	0.20	0.30%	0.36	0.10%	0.24			0.53%	0.80
Vİ	Office Expenses – Purchase of Computer, Digital Camera, Printing of Booklets for SHGs, cost of P.O.L., survey instruments, equipment for monitoring station and hydrological studies, equipment for metrological stations etc.			0.94%	1.40	0.58%	1.122	1.46%	1.938			2.98%	4.46
	Total of A			2.0%	3.0	5.00%	6.0	3.0%	5.1			10.0%	15.0
B.	Monitoring			0.20%	0.30	0.50%	0.75	0.30%	0.45			1.00%	1.50
C.	Evaluation			0.30%	0.45	0.50%	0.60	0.20%	0.45			1.00%	1.50
	TOTAL OF ADMINISTRATION			2.50%	3.75	6.00%	8.25	3.50%	6.0			12.00%	18.0
2	PREPARATORY PHASE a. Entry point Activities												
	Mawiong village		1.00										1.00
	Umsukun village		1.00										1.00
	Pahamrioh lum village		1.00										1.00
	Mawryngkang		1.50										1.50
	Umsehkhlieng		1.50										1.50
	Total of a.	4.0%	6.00									4.0%	6.00

SI.	Activities	First yea	r 2009-10	Second ye	ar 2010-11	Third yea	r 2011-12	Fourth ye	ar 2012-13	Fifth yea	r 2013-14	То	tal
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
b	Institutional, capacity Building, Training and IEC Activities												
i	Awareness campaign on IWMP Project, Health and sanitations, Training for preparation of MPR, QPR, online Reporting, printing of Booklets, cover guidelines etc.			5 nos. 0.67%	1.00							5 nos. 0.67%	1.0
ii	State level workshop			2 nos. 0.23%	0.35							2 nos. 0.23%	0.35
iii	Capacity Building for WDT, WC,WV and field functionaries	2 nos. 0.20%	0.30	2 nos. 0.20%	0.30							4 nos. 0.40%	0.6
iv	Capacity Building for SHGs, UGs	2 nos. 0.20%	0.30	5 nos. 0.90%	1.35	3 nos. 0.30%	0.45	1 no. 0.10%	0.15			11 nos. 1.50%	2.25
٧	Field visit cum Exposure trips of WC, SHGs, UGs, WDT	4 nos. 0.40%	0.60			6 nos. 0.60%	0.90	2 nos. 0.20%	0.30			12 nos. 1.20%	1.8
vi	Vocational training of SHGs for different livelihood Activities and Micro-enterprises	2 nos. 0.20%	0.30			12 nos. 0.60%	0.90	4 nos. 0.20%	0.30			18 nos. 1.00%	1.5
	Total of b	10 nos. 1.00%	1.50	14 nos. 2.00%	3.0	21 nos. 1.50%	2.25	7 nos. 0.50%	0.75			52 nos. 5.00%	7.50
С	Preparation of Detailed Project Report (DPR)												
	Survey projectisation, PRA Exercises etc.	1.0%	1.50									1.0%	1.50
	Total of c	1.0%	1.50									1.0%	1.50
	Total of Preparatory Phase	10 nos. 6.0%	9.0	14 nos. 2.00%	3.0	21 nos. 1.50%	2.25	7 nos. 0.50%	0.75			52 nos. 10.00%	15.0
3	WATERSHED WORK PHASE A. Watershed Development Work												
I	Land Development												
i	Box terracing 40 Ha. @ Rs. 7500/- per Ha.												
	Mawiong village 10.0 Ha. @ Rs. 7500/- per Ha.			5 ha.	0.375			5 ha.	0.375			10 ha.	0.75
	Umsukun village 6.00 Ha. @ Rs. 7500/- per Ha.			3 ha.	0.225			3 ha.	0.225			6 ha.	0.45
	Pahamrioh Lum village 4.00 Ha. @ Rs. 7500/- per Ha.			2 ha.	0.15			2 ha.	0.15			4 ha.	0.3
	Mawryngkang village – 13 ha. @ Rs. 7500/- per Ha.			7 ha.	0.525			6 ha.	0.45			13 ha.	0.975
	Umsehkhlieng village – 7 ha. @ Rs. 7500/- per Ha.			3 ha.	0.225			4 ha.	0.30			7 ha.	0.525
ii	Improvement of Existing Paddy field 96.0 ha. @ Rs. 4300/- per ha.												
	Mawiong village – 12.00 ha.					12 ha.	0.516					16 ha.	0.516
	Umsukun village – 20.00 ha.					20 ha.	0.86					20 ha.	0.86
	Pahamrioh lum village – 8.00 ha.					8 ha.	0.344					8 ha.	0.344
	Mawryngkang village – 42 ha.					42 ha.	1.86					42 ha.	1.806
	Umsehkhlieng village – 14 ha.					14 ha.	0.602					14 ha.	0.602

SI. No	Activities	First yea	r 2009-10	Second ye	ear 2010-11	Third yea	r 2011-12	Fourth yea	ar 2012-13	Fifth yea	r 2013-14	To	otal
O1. 140		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
iii	Crop Demonstration												
	Mawiong village – 3 units							3 unit/ 0.75 ha.	0.225			3 units/ 0.75	0.225
	Umsukun village – 5 units							5units/ 1.25 ha.	0.375			5 units/ 1.25	0.375
	Paharioh Lum village – 2 units							2 unit/ 0.5 ha.	0.150			2 units/ 0.50	0.150
	Mawryngkang village – 7 units							7 units/ 1.75 ha.	0.525			7 units/ 1.75	0.525
	Umsehkhlieng village – 3 units							3 unit/ 0.75 ha.	0.225			3 units/ 0.75	0.225
	Total of 3 (I)			20 ha.	1.50	96.0 ha.	4.128	20 units/ 25 ha.	3.0			141 ha.	7.128
	Ridge area Treatment												
a	Staggered trenching 40 ha. @ Rs. 7020/- ha.												
a	Mawiong village – 10.0 ha. @ Rs. 7020/- per ha.			5 ha.	0.351			5 ha.	0.351			10 ha.	0.702
	Umsukun village – 7.0 ha. @ Rs. 7020/- per ha.			4 ha.	0.2808			3 ha.	0.2106			7 ha.	0.4914
	Pahamrioh Lum village – 3.0 ha. @ Rs. 7020/- per ha.			1 ha.	0.702			2 ha.	0.2100			3 ha.	0.2106
	Mawryngkang village – 12 ha. @ Rs. 7020/- per ha.			8 ha.	0.5616			4 ha.	0.2808			12 ha.	0.8424
	Umsehkhlieng village – 8 ha. @ Rs. 7020/- per ha.			2 ha.	0.1404			6 ha.	0.4212			8 ha.	0.5616
b	Afforestation 28.0 ha. @ Rs. 10,100/- per ha.			2 110.	0.1101			o na.	0.1212			o na.	0.0010
	Mawiong village – 5.0 ha. @ Rs. 10,100/- per ha.					5 ha. (c.m)	0.505					5 ha.	0.505
	Umsukun village – 3.0 ha. @ Rs. 10,100/- per ha.					3 ha. (c.m)	0.303					3 ha.	0.303
	Pahamrioh Lum village – 2.0 ha. @ Rs. 10,100/- per ha.					2 ha. (c.m)	0.202					2 ha.	0.202
	Mawryngkang village – 10 ha. @ Rs. 10,100/- per ha.					10 ha. (c.m)	1.01					10 ha.	1.01
	Umsehkhlieng village – 8 ha. @ Rs. 10,100/- per ha.					8 ha. (c.m)	0.808					8 ha.	0.808
С	Arecanut plantation 60.0 ha. @ Rs. 12,680/- per ha.												
	Mawiong village – 12.0 ha. @ Rs. 12,680/- per ha.					12 ha. (c.m)	1.5216					12 ha.	1.5216
	Umsukun village – 9.0 ha. @ Rs. 12,680/- per ha.					9 ha. (c.m)	1.1412					9 ha.	1.1412
	Pahamrioh Lum village – 9.0 ha. @ Rs. 12,680/- per ha.					9 ha. (c.m)	1.1412					9 ha.	1.1412
	Mawryngkang village – 18 ha. @ Rs. 12,680/- per ha.					18 ha. (c.m)	2.2824					18 ha.	2.2824
	Umsehkhlieng village – 12 ha. @ Rs. 12,680/- per ha.					12 ha. (c.m)	1.5216					12 ha.	1.5216

SI.	Activities	First yea	r 2009-10	Second ye	ear 2010-11	Third yea	r 2011-12	Fourth ye	ar 2012-13	Fifth yea	r 2013-14	То	tal
No.		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
d	Orange Plantation 50.0 ha. @ Rs. 8600/- per ha.												
	Mawiong village – 12.0 ha. @ Rs. 8600/- per ha.					12 ha. (c.m)	1.032					12 ha.	1.032
	Umsukun village – 9.0 ha. @ Rs. 8600/- per ha.					9 ha. (c.m)	0.774					9 ha.	0.774
	Pahamrioh Lum village – 9.0 ha. @ Rs. 8600/- per ha.					9 ha. (c.m)	0.774					9 ha.	0.774
	Mawryngkang village – 10 ha. @ Rs. 8600/- per ha.					10 ha. (c.m)	0.86					10 ha.	0.86
	Umsehkhlieng village – 10 ha. @ Rs. 8600/- per ha.					10 ha. (c.m)	0.86					10 ha.	0.86
е	Betel leaf Plantation - 72.0 ha. @ Rs. 8100/- per ha.												
	Mawiong village – 15.0 ha. @ Rs. 8100/- per ha.					15 ha. (c.m)	1.215					15 ha.	1.215
	Umsukun village – 15.0 ha. @ Rs. 8100/- per ha					15 ha. (c.m)	1.215					15 ha.	1.215
	Pahamrioh Lum village – 30.0 ha. @ Rs. 8100/- per ha					30 ha. (c.m)	2.43					30 ha.	2.43
	Mawryngkang village – 7 ha. @ Rs. 8100/- per ha					7 ha. (c.m)	0.567					7 ha.	0.567
	Umsehkhlieng village – 5 ha. @ Rs. 8100/- per ha					5 ha. (c.m)	0.405					5 ha.	0.405
f	Banana Plantation – 30.0 ha. @ Rs. 7400/- per Ha.												
	Mawryngkang village – 17 ha.							17 ha.	1.258			17 ha.	1.258
	Umsehkhlieng village – 13 ha.							13 ha.	0.962			13 ha.	0.962
g	Improvement of Degraded forest 240 ha. @ Rs. 3600/- per ha.												
	Mawiong village – 65 ha. @ 3600/- per ha.					65 ha. (c.m)	2.34					65 ha.	2.34
	Umsukun village – 40 ha. @ 3600/- per ha.					40 ha. (c.m)	1.44					40. ha.	1.44
	Pahamrioh Lum village – 15 ha. @ 3600/- per ha.					15 ha.(c.m)	0.54					15 ha.	0.54
	Mawryngkang village – 70 ha. @ 3600/- per ha.					, ,		70 ha.	2.52			70 ha.	2.52
	Umsehkhlieng village – 50 ha. @ 3600/- per ha.							50 ha.	1.8			50 ha.	1.8
	Total of 3 (II)			20 ha.	1.404	330 ha.	24.888	170 ha.	7.944			520 ha.	34.236

SI. Nolli.	Activities	First yea	r 2009-10	Second ye	ar 2010-11	Third yea	r 2011-12	Fourth ye	ear 2012-13	Fifth yea	r 2013-14	To	tal
		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
а	Check Dams												1
	Mawiong village – 7 nos. (28 ha.)			1 no./4 ha.	0.40	6 no./24 ha.	1.8					7 nos./28 ha.	2.2
	Umsukun village – 6 nos. (24 ha.)			1 no./4 ha.	0.40	5 no./20 ha.	1.5					6 nos./24 ha.	1.9
	Pahamrioh Lum village – 4 nos. (16 ha.)			1 no./4 ha.	0.40	3 no./12 ha.	0.9					4 nos./16 ha.	1.3
	Mawryngkang village – 6 nos./24 ha.			1 no./4 ha.	0.40	5 no./20 ha.	1.52922					6 nos./24 ha.	1.92922
	Umsehkhlieng village – 3 nos./12 ha.			1 no./4 ha.	0.40	2 no./8 ha.	0.6					3 nos./12 ha.	1.0
b	Drinking well												
	Umsukun village – 1 no.			1 no.	0.5							1 no.	0.5
	Mawryngkang village – 1 no.			1 no.	0.5							1 no.	0.5
С	Small Dug Out ponds												
	Mawiong village – 1 no.					1 no.	0.2					1 no.	0.2
	Mawryngkang village – 2 nos.					2 nos.	0.4					2 nos.	0.4
	Umsehkhlieng village – 4 nos.					3 nos.	0.6925	1 no.	0.36			4 nos.	0.9985
d	Protection wall												
	Mawiong village – 1 no./2 ha.					1 no./2 ha.	0.1736					1 no./2 ha.	0.1736
	Pahamrioh Lum – 3 nos./1 ha.			1 no.	0.3904	2 nos./1 ha.	0.7486					3 nos./1 ha.	1.139
	Mawryngkang village – 3 nos./6 ha.			1 no./2 ha.	0.7148	2 nos./4 ha.	1.4					3 nos./6 ha.	2.1148
	Umsehkhlieng village – 1 no./2 ha.			1 no./2 ha.	0.8948							1 no./2 ha.	0.8948
е	Water Harvesting Structure												<u> </u>
	Mawiong village – 5 nos. (15 ha.)					5 nos./15 ha.	2.835					5 nos./15 ha.	2.835
	Umsukun village – 2 nos. (6 ha.)			2 nos./6 ha.	1.0907							2 nos./6 ha.	1.0907
	Mawryngkang village – 4 nos./12 ha.			1 no./3 ha.	0.2493	3 nos./9 ha.	1.43					4 nos./12 ha	
	Umsehkhlieng village – 5 nos./15 ha.			2 nos./6 ha.	1.66	3 nos./9 ha.	2.4707					5 nos./15 ha.	4.1307

SI. No.	Activities	First yea	r 2009-10	Second ye	ear 2010-11	Third yea	r 2011-12	Fourth ye	ar 2012-13	Fifth yea	r 2013-14	То	tal
		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
f	C.C. Channel												
	Umsukun village – 1 no.					1 no.	0.1549					1 no.	0.1549
	Pahamrioh Lum - 1 no.					1 no.	0.3778					1 no.	0.3778
	Mawryngkang village – 3 nos.					3 nos.	1.53					3 nos.	1.53
	Umsehkhlieng village – 1 no.					1 no.	0.56					1 no.	0.56
g	Earthen Dam												
	Mawiong village – 2 nos. (6 ha.)					2 nos./6 ha.	0.5639					2 nos./6 ha.	0.5639
	Umsukun village – 3 nos. (9 ha.)					3 nos./9 ha.	0.7124					3 nos./9 ha.	0.7124
h	Earthen Channel												
	Mawiong village – 977.65 Rm (6 ha.)			439.15 Rm./ 2.7 ha.		538.5 Rm. 3.3 ha.	0.14					977.65 Rm. 6 ha.	0.25418
	Umsukun village – 446.5 Rm (4 ha.)				0.05182	446.5 Rm. 4 ha.	0.11588					446.5 Rm. 4 ha.	0.11588
	Pahamrioh Lum – 198.46 Rm. (1.5 ha.)			198.46 Rm. 1.5 ha.								198.46 Rm. 1.5 ha.	0.05182
	Mawryngkang village – 3128 Rm/31.5 ha.				0.18	3128 Rm./ 31.5 ha.	0.81					3128 Rm. 31.5 ha.	0.81
	Umsehkhlieng village – 1872 Rm/26.0 ha.			688.97 Rm. 10 ha.	56 nos./195. 3 ha.	1783.03 Rm./16.0 ha.	0.31					1872 Rm./ 26 ha.	0.49
	Total of 3 (III)			15 nos./53.2 ha.	8.346	57 nos./621.3 ha.	23.484	1 no.	0.306			250 ha	32.136
	Total of 3 (A) Watershed Development work			15 nos./93.7 ha.	11.25	Fourth year 2012-13	52.50	195 ha.	11.25			9.10 ha.	75.00

SI.	Activities	First yea	r 2009-10	Second y	ear 2010-11	Third yea	r 2011-12	Fourth year	r 2012-13	Fifth yea	r 2013-14	То	tal
No.	Activities	Phy	Fin	Phy	6	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
1	2	3	4	5		7	8	9	10	11	12	13	14
В	LIVELIHOOD ACTIVITIES												
а	Tailoring @ 10,000/- per unit												
	Mawiong village – 3 units					3 units	0.3					3 units	0.3
	Umsukun village – 2 units.					1 unit	0.1	1 unit	0.1			2 units	0.2
	Pahamrioh lum village – 2 units.					1 unit	0.1	1 unit	0.1			2 units	0.2
	Mawryngkang village – 15 units					5 units	0.50	10 units	1.0			15 units	1.5
	Umsehkhlieng village – 9 units					3 units	0.3	6 units	0.6			9 units	0.9
b	Carpentry @ 5000/- per unit												
	Mawiong village – 2 units					1 unit	0.05	1 unit	0.05			2 units	0.1
	Umsukun village – 2 units					1 unit	0.05	1 unit	0.05			2 units	0.1
	Pahamrioh lum village – 2 units					1 unit	0.05	1 unit	0.05			2 units	0.1
	Mawryngkang village – 12 units					3 units	0.15	9 units	0.45			12 units	0.60
	Umsehkhlieng village – 7 units					3 units	0.15	4 units	0.20			7 units	0.35
С	Kitchen Garden/growing of Rabi crops @ 2500/- per unit												
	Mawiong village – 46 units/20 ha. @ Rs. 2500/- per unit.					20 units/ 10 ha.	0.50	26 units/ 10 ha.	0.65			46 units/ 20 ha.	1.15
	Umsukun village – 39 units/17 ha. @ Rs. 2500/- per unit.					20 units/ 7 ha.	0.50	19 units/10 ha.	0.475			39 units/ 17 ha.	0.975
	Pahamrioh lum village – 45 units/15 ha. @ Rs. 2500/- per unit.					20 units/ 6 ha.	0.50	25 units/9 ha.	0.625			45 units/ 15 ha.	1.125
	Mawryngkang village – 51 units/26 ha. @ Rs. 2500/- per unit.					15units/ 10 ha.	0.375	36 units/16 ha.	0.90			51 units/ 26 ha.	1.275
	Umsehkhlieng village – 32 units/17 ha. @ Rs. 2500/- per unit.					10 units/ 9 ha.	0.25	22 units/8 ha.	0.55			32 units/ 17 ha.	0.80

SI. No.	Activities	First yea	r 2009-10	Second ye	ear 2010-11	Third yea	ar 2011-12	Fourth year	ar 2012-13	Fifth yea	ar 2013-14	То	tal
		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
d	Agriculture implements @ Rs. 2500/- per unit.												
	Umsukun village – 39 units @ Rs. 2500/- per unit.			10 units	0.25	5 units	0.125	24 units	0.60			39 units	0.975
	Pahamrioh lum village – 45 units @ Rs. 2500/- per unit.			10 units	0.375	5 units	0.125	30 units	0.75			45 units	1.125
	Mawryngkang village – 51 units @ Rs. 2500/- per unit.			15 units	0.375	8 units	0.20	28 units	0.70			51 units	1.275
	Umsehkhlieng village – 32 units @ Rs. 2500/- per unit.			15 units	42 ha.	2 units	0.05	15 units	0.375			32 units	0.80
	Total of 3 (B)			60 units	1.5	Fourth year 2012-13	4.50	53 ha.	9.0			95 ha.	15.0
С	PRODUCTION SYSTEM AND MICRO- ENTERPRISES												
а	Rearing of milch cow 1 unit @ Rs. 80,000/- per unit							1 unit	0.80			1 unit	0.80
b	Grocery shop @ Rs. 40,000/- per unit												
	Mawiong village 1 unit @ Rs. 40,000/- per unit							1 unit	0.40			1 unit	0.40
	Umsukun village 1 unit @ Rs. 40,000/- per unit							1 unit	0.40			1 unit	0.40
	Pahamrioh Lum village 1 unit @ Rs. 40,000/- per unit							1 unit	0.40			1 unit	0.40
С	Ginger cultivation @ Rs. 50,000/- per unit												
	Mawiong village – 3 units @ Rs. 50,000/- per unit					2 units	1.0	1 unit	0.5			3 units	1.5
	Umsukun village – 3 units @ Rs. 50,000/- per unit					2 units	1.0	1 unit	0.5			3 units	1.5
	Mawryngkang village – 3 units @ Rs. 50,000/- per unit					2 units	1.0	1 unit	0.5			3 units	1.5
	Umsehkhlieng village – 2 units @ Rs. 50,000/- per unit					1 units	0.5	1 unit	0.5			2 units	1.0
d	Piggery @ Rs. 50,000/- per unit												
	Mawiong village – 1 unit @ Rs. 50,000/- per unit					1 unit	0.5					1 unit	0.5
	Umsukun village – 2 units @ Rs. 50,000/- per unit					1 unit	0.5	1 unit	0.5			2 units	1.0
	Pahamrioh Lum village – 2 units @ Rs. 50,000/- per unit					1 unit	0.5	1 unit	0.5			2 units	1.0
	Mawryngkang village – 3 units @ Rs. 50,000/- per unit					1 unit	0.5	2 units	1.0			3 units	1.5
	Umsehkhlieng village – 2 units @ Rs. 50,000/- per unit					1 unit	0.5	1 unit	0.5			2 units	1.0

SI. No.	Activities	First year	2009-10	Second ye	ear 2010-11	Third yea	r 2011-12	Fourth yea	ar 2012-13	Fifth yea	r 2013-14	То	tal
		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
е	Fishery @ Rs. 25,000/- per unit												
	Umsukun village – 3 units @ Rs. 25,000/- per unit			1 unit	0.5	1 unit	0.25	1 unit	0.25			3 units	0.75
	Mawryngkang village – 7 units @ Rs. 25,000/- per unit			2 units	0.5	2 units	0.5	3 units	0.75			7 units	1.75
	Umsehkhlieng village – 8 units @ Rs. 25,000/- per unit			2 units		2 units	0.5	4 units	1.0			8 units	2.0
F	Poultry @ Rs. 25,000/- per unit												
	Pahamrioh Lum village – 2 units @ Rs. 25,000/- per unit							2 units	0.5			2 units	0.5
	Mawryngkang village – 2 units @ Rs. 25,000/- per unit							2 units	0.5			2 units	0.5
	Umsehkhlieng village – 2 units @ Rs. 25,000/- per unit				17 units			2 units	0.5			2 units	0.5
	Total of 3 (C)			6 units	1.5	663.3 ha.	7.5	30 units	10.5			53 units	19.5
	Total of Watershed work phase	5 units	6.0	93.7 ha.	14.25		64.50	243 ha.	30.75			1000	115.5
4	CONSOLIDATION AND WITHDRAWAL PHASE												
а	Preparation of project completion Report with details the status of each intervention									1.33%	2.0	1.33%	2.0
b	Documentation of Success Stories									1.33%	2.0	1.33%	2.0
С	Repair, maintenance and protection of CPRs									2.01%	3.0	2.01%	3.0
d	Capacity Building for WC, SHGs, UGs for post project management									0.33%	0.5	0.33%	0.5
	Total of consolidation and withdrawal phase									5%	7.5	5%	7.5
					6.0%								
	Total Administration			2.50%	3.75	1.50%	8.25	3.5%	6.0			12.00%	18.0
	Total Preparatory phase	6.0%	9.0	2.0%	3.0	663.3 ha.	2.25	0.50%	0.75			10.00%	15.0
	Total of Watershed work phase			93.7 ha.	14.25		64.50	248 ha.	30.75			1005	109.5
	Total of consolidation and withdrawal phase					663.3 ha				5%	7.5	5%	7.5
	Grand Total	6.0%	9.0	93.7 ha.		663.3 ha	75.00	243 ha.	37.50	5%	7.5	1000 ha.	150

# DETAILS OF THE TYPES OF AREAS COVERED UNDER THE IWMP PROGRAMME:

1	2	3	4	5	(	6	7	8	9			10					11		
						duration n/ yyyy)		Drainat	Names of Micro		Area (h	a) of the proj	ects		Area	details (ha	) (falling w	ithin the pro	jects)
SI. No.	Name of State	Name of Districts	Names of	Year of sanction			Area of the	Project cost (Rs. In	watersheds & Code nos. (as	Cultivated				Others	Pvt.	Forest	Comm	Others (pl.	Total
NO.	State	Districts	Projects	Sanction	From	То	projects	lakh)	per DoLR's unique codification)	rainfed area	irrigated area	a) Temporary fallow	b) Per manent	Others	Agri. Land	land	unity land		area (ha)
1	Meghalaya	Ri-Bhoi District	Ri-Bhoi IWMP - III	2009- 2010	2009- 2010	2013- 2014	1000 ha.	150.00	Umsukun 3B2A1a2h Umlanglut 3B2A2b1a	177	Nil	336	217	270	177	88	1249	118	1632

# FUND PROVISION FOR THE IWMP PROJECTS FROM ALL SOURCES:

1	2	3	3					4	4					5
		IWMD	Fund				Funds from other	er sources	in addition to	WMP fun	ds			
District	Name of	IVVIVIP	ruliu	Converge	nce funds	PP	P	Cor	mmunity	Institut	ional finance	Others	(Pl. specify)	Total
District	Projects	Central Share	State Share	Name of Scheme	Amount	Name of private sector	Financial contri-bution	Name	Financial contribution	Name	Financial contribution	Name	Financial contribution	Total
Ri-Bhoi District	Ri-Bhoi IWMP - III	135.00	15.00			NA	Nil	Nil	Nil	Nil	Nil	Nil	Nil	150.00 lakhs

#### DETAILS OF PROJECT FUND ACCOUNTS OF DISTT. AGENCY AND WATERSHED COMMITTEES:

1	2	3	4		5	j				6		
				Distt	. Agency's Proj	ect Account d	etails		Watershed Co	ommittee (WC) a	ccount details:	1
SI. 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	Maghalaya	Ri-Bhoi	Di Dhai IMMD III	Indian Bank,	967200259	Coving	Smti. V. Papang	Umsukun Watershed Committee	Indian Bank	880313918	Coving	Chairman Watershed Committee Secretary
	Meghalaya	District	Ri-Bhoi IWMP - III	Nongpoh Branch	867300258	Saving	DS&WCO	Umlanglut Watershed Committee	Meghalaya Rural Bank	SB 5230	Saving	Watershed Committee Project leader

#### 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 <sup>@</sup>	Level at which decision for convergence was taken <sup>\$</sup>

#### PUBLIC-PRIVATE PARTNERSHIP IN THE IWMP PROJECTS:

1	2	3		4			5	6	7	8	9
	Name	Name of Private	Тур	e of agreemer	nt signed		ncial bution	Dortnorship	Expected	Actual	
District	of project	Sector Partner Agency	a)MoU	b)Contract	c) Any other (pl. specify)	IWMP	Private sector	Partnership Interventions	Outcomes	Actual Outcomes	Comments

<sup>\*</sup> 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.

MAP SHOWING AGRO-CLIMATIC ZONES OF THE COUNTRY, SOIL TYPES, AVERAGE RAINFALL, TEMPERATURE, HUMIDITY AND PROJECT LOCATION.

#### DETAILS OF FLOOD AND DROUGHT IN THE PROJECT AREAS OF THE COUNTRY DURING LAST 5 YEARS:

1	2	3	4	5	6		7	8	
Sl.		Names of				Pe	eriodicity		
No ·	Names of States	Districts	Names of Projects	Particulars	Villages	Annual	Any other (please specify)	Not affected	
1	Meghalaya	Ri-Bhoi District	Ri-Bhoi IWMP - III	Flood	No. of villages	Nil	Nil	Nil	
					Name (s) of villages	Nil	Nil	Nil	
				Drought	No. of villages	Nil	Nil	Nil	
					Name (s) of village	Nil	Nil	Nil	

# CHAPTER VI CAPACITY BUILDING

# CHAPTER VI CAPACITY BUILDING

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

# List of approved Training Institutes<sup>®</sup> for Capacity Building:

1	2	3	4	5	6	7	8			9		
		Name of the	Full Address	Name &		Area(s) of			Pe	rformance		
SI. No.	State	Training Institute	with contact no., website & e-mail	Designation of the Head of Institute	Type of Institute#	speciali- zation\$	Accredita- tion details	Reference Year	No. of trainings assigned	No. of trainees to be trained	No. of trainings conducted	No. of trainees trained
1	Meghalaya	NIRD (NER)	Guwahati	Director	Central Govt.	Rural Developme nt Remote Sensing	NA					
2	Meghalaya	SIRD	Nongsder	Director	State Govt.	Capacity Building	NA					
3	Meghalaya	RRTC	Umran	Director	Don Bosco	Agri-Horti, Animal Husbandry Entreprene urship	NA					
4	Meghalaya	ICAR	Barapani	Director	Central Govt.	- do -	NA					
5	Meghalaya	VTC	Kyrdemkulai	Director	State Govt.	Animal husbandry	NA					
6	Meghalaya	Fruit Garden	Shillong	Director	State Govt.	Fruit processing	NA					

<sup>\*</sup> 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)

- (i) Technical experts in fields required by IWMP
- (ii) Past experiences
- (iii) Annual Turnover

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

<sup>@</sup> The training institutes must fulfill the conditions mentioned in the operations guidelines.

- Receives funds either from the Central or State Government
- Publications
- Not blacklisted by any Govt. organizations Audited accounts
- Organizational structure

# CAPACITY BUILDING ACTIVITIES FOR THE YEAR 2009-2010 AS ON 31<sup>ST</sup> MARCH 2010 (DD/MM/YYYY)\*

1	2	3	4	5		6		7
Project	Total no. of	No. of persons	No. of persons to be trained during	No. of persons trained during current		of funding for raining	Fun	ds utilised
Stakeholders	persons	trained so far	current financial year	financial year	a) DoLR	b)Any other (pl. specify)	a) DoLR	b)Any other (pl. specify)
SLNA			20 nos.		1.50 lakhs		1.50 lakhs	
DRDA/ZP cell								
PIAs			25 nos.					
WDTs			10 nos.					
UGs			50 nos.					
SHGs			100 nos.					
WCs			15 nos.					
GPs			10 nos.					
Community			213 nos.					
Others (Pl. specify)								

# 

1	2	3	4	5
Activity	Executing agency	Estimated expenditure (Rs.)	Expenditure incurred (Rs.)	Outcome (may quantify, wherever possible)
Awareness	S&WC Ri-Bhoi District	60,000	60,000	
PRA Exercise	- do -	40,000	40,000	
Capacity Building		50,000	50,000	
Total		1,50,000	1,50,000	

# CHAPTER VII EXPECTED OUTCOME

# CHAPTER VII EXPECTED OUTCOME

#### **Employment related outcomes:**

#### **Employment generation:**

			1							2						
SI.	Name of village		Wage employment							Self employment						
No.	Name of village No. of ma				ndays		No. of beneficiaries				No. of beneficiaries					
		SC	ST	Others	Women	Total	SC	ST	Others	Women	Total	SC	ST	Others	Women	Total
1	Umsiehkhlieng		100%	11100	11300	22400		100%	28	4	32		100%	8	7	15
2	Mawryngkang		100%	11537	15864	27401		100%	40	11	51		100%	8	6	14
	Total			22637	27164	49801			68	15	83			16	13	29

#### DETAILS OF SEASONAL MIGRATION FROM PROJECT AREA:

1	2	3	4	5	6	7	8	
Names of the Districts	Names of Projects	Name of village	No. of persons migrating	No. of days per year of migration	Major reason(s) for migrating	Distance of destination of migration from the village (km)	Occupation during migration	Income from such occupation (Rs. in lakh)
				ſ	563 63 E			

<sup>\*</sup> 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.

#### **DETAILS OF SEASONAL MIGRATION FROM PROJECT AREAS:**

1	2	3	4	5	6	7	8	9		10
Names of the Districts	Names of Projects	ot	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)	major activi	igration identify ities of IWMP onsible (b) Livelihoods

<sup>\*</sup> 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.

Operational flexibility in norms to suit varying local conditions.

#### ECONOMIC BENEFITS ACCRUED TO WOMEN:

1		2			3	4
Wages	Wages			Liv		
Woman days	Woman days (Rs. in lakh)		No. of women participants (Rs. in lakh)		Value of assistance provided (Rs. in lakh)	Total (Rs. in lakh)
38500	38.50	300	0.70	47 nos.	25.84	26.55

<sup>\*</sup> 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.

#### DETAILS OF RIGHTS CONFERRED IN THE CPRS OF THE PROJECT AREAS:

1	2	3	4	5	6		7			8
Namasas	Names of the projects	Names of the villages			Nature of Period of right			ry details amilies)	User Charges	
Names of			OI CPR	rigiit	Hight	SC	ST	Others	Total	(Rs.)
the Districts		Umsiehkhlieng	Community forest	FW			32		32	Nil
		Mawryngkang	- do -	FW			51		51	Nil
	Total						83		83	

<sup>\*</sup> 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. 7, only the letter assigned to each type, as given below, needs to be typed.

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

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

#### WATER RELATED OUTCOMES:

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

1	2	3	4	5	6	7	8
Names of Districts	Names of Projects	Sources	Pre-Project level	Mid-term project level	Post-project level	Increase/decrease (Col. 8 – Col. 6)	Remarks
Ri-Bhoi	D: Dhai IWMD	Open wells					
District	Ri-Bhoi IWMP	Bore wells					
District	- III	Others (Springs)	Very poor	Poor	Good	Increased	

<sup>\*</sup>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.

#### STATUS OF DRINKING WATER:

1	2		3				5	
District	Name of the preject		bility of drink of months in	Qualit	ng water	C		
	Name of the project	Pre- project	Post- project	Change in availability	Pre- project	Post- project	Change in quality	Comments
Ri-Bhoi District	Ri-Bhoi IWMP - III	Insufficient	Insufficient	10-12 months	Moderate	Improved	Improved	

<sup>\*</sup> from column no. 2, total no. 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.

#### WATER USE EFFICIENCY:

1	2	3		4		
				Water savings in cu.r	n.	
District	Name of the project	Name of major crop	through water saving devices\$	through water conserving agronomic practices <sup>#</sup>	Any other (pl. specify)	Total

<sup>\*</sup> 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.

#### **VEGETATION/ CROP RELATED OUTCOMES:**

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

1	2	3				4						5						6		
					Pre-	project					Mic	l-term					Pos	t-proje	ct	
Names of the Districts	Name of Projects	Name of crops		rea na)	Avera	ge Yield per ha.	Prod	otal uction Qtl)	Ar (h		Aver Yield ha (	l per	To produ (q	ıction	Ar (h		Yiel	rage 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.
		Paddy		96		12		1152	10	96	20	15	300	1440	96		25		2400	
Di Dhai	Ri-Bhoi	Ginger		35		50		1750	5	30	78	60	390	1800	35		78		2730	
Ri-Bhoi District	IWMP –	Turmeric		20		60		1200	5	15	75	60	375	900	20		89		1780	
DISTRICT	III	Yam		20		40		800	5	15	50	45	250	675	20		60		1200	
		Chilli		6		9		54		6		13		78	6		15		80	

<sup>\*</sup> 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

<sup>\$</sup> Sprinkler, Drip, PVC pipe, etc.

<sup>\*</sup> Vermi-compost, organic manuring, Mulching, Check basin, Alternate furrow, Ridges & furrow & other scientific practices

#### DETAILS OF RABI CROP AREA AND YIELD IN THE PROJECT AREAS:

1	2	3	4	5				6						7						8		
							Pre-p	roject					Mi	d-term	1				Pos	t-projec	t	
SI. No.	i the		Name of Projects	Name of crops		rea na)	_	je Yield ber ha.	Produ	tal uction (tl)	Ar (h		Avei Yield ha (	l per	produ	tal uction tl)	Ar (h		Yield	rage per ha  tl)	Tota produc (qtl	ction
					Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.
			Ri-Bhoi	Potato							10		60		600		40		80		3260	
4	Maghalaya	Ri-Bhoi	IWMP - III	Tomato							5		30		150		27		40		1080	
	Meghalaya	District	Total for the District																			

<sup>\*</sup> 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

#### DETAILS OF ZAID CROP AREA AND YIELD IN THE PROJECT AREAS OF THE COUNTRY: STATE-WISE:

1	2	3	4	5				6						7						8		
							Pre	-project					Mic	l-term					Pos	t-projec	t	
SI. No.	Names of States	Names of the Districts	Name of Projects	Name of crops		Area Average Yield (Qtl) To per ha.				roduction Qtl)	Ar (h		Aver Yield ha (	l per	To produ (q	iction	Ar (h	ea a)	Yield	erage per ha qtl)	Tota produc (qtl	ction
					Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.
			Total for						$\mathbb{F}/2$													
			the District																			

<sup>\*</sup> 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

#### INCREASE/ DECREASE IN AREA UNDER HORTICULTURE/CASH CROP:

1	2	3		4			5	
			Exist	ing area under	horticulture (ha)	Ac	hievement (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 District	Ri-Bhoi IWMP - III	5 years	NA	NA	NA	212 ha.	212 ha.	212 ha.

<sup>\*</sup> 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.

#### INCREASE/ DECREASE IN AREA UNDER FUEL-WOOD:

1	2	3		4			5	
			Existin	g area unde	r fuel-wood (ha)	A	chievement (ha)	
Distric t	Name of project	Duratio n of Project	Source/ Name of report	Year of reference	Area already under fuel-wood	Area under fuel- wood proposed to be covered through IWMP	Area under fuel- wood actually covered through IWMP	Change in area under fuel-wood
Ri-Bhoi District	Ri-Bhoi IWMP - III	5 years	NA	NA	NA	140 ha.	140 ha.	140 ha.

<sup>\*</sup> 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.

#### 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 District	Ri-Bhoi IWMP - III	5 years	NA	NA	NA	Nil	Nil	Nil

<sup>\*</sup> 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.

#### INCREASE/ DECREASE IN FOREST/VEGETATIVE COVER:

1	2	3		4			5	
				Existing tree	cover (ha)	Acl	hievement (ha)	
District	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/vegetat ive cover area
Ri-Bhoi District	Ri-Bhoi IWMP - III	5 years	reterence		NA	128 ha.	128 ha.	128 ha.

<sup>\*</sup> 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.

#### LIVELIHOOD RELATED OUTCOMES:

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

1	2	3		4			5			6		7
Names of the	Names of			Pre-Projec	t		Mid-terr	n		Post-projec	t	
Districts	Projects	Type of Animal	No.	Yield (Kg/Ltr)	Income	No.	Yield	Income	No.	Yield (Kg/ltr)	Income	Remarks
		Milch-animals				2			2 nos.	10.8 ltr.	1,94,400	
		Piggery	50 nos.	600 kg.	96,000	130 nos.	1500 kg	2,40,000	200 nos.	2300 kg	3,68,000	
Ri-Bhoi District	Ri-Bhoi IWMP - III	Poultry	1440 nos.	800 kg.	1,20,000	2000 nos.	1100 kg	1,65,000	2500 nos.	1400 kg	2,10,000	
		Fishery				44,000 nos.			44,000 nos.	17,000 kg	8,50,000	
	Total for all projects		1490 nos.	1400 kg	2,16,000	46130 nos.	2600 kg	4,05,000	46,702 nos.	20,700 kg/10.8 ltr	16,22,400	
Total for all Districts												

<sup>\*</sup> 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.

#### DETAILS OF OTHER LIVELIHOODS CREATED FOR LANDLESS PEOPLE:

1	2	3	4			5		6			7						8	
			Funds	So	urces of	funding (Rs.	)	Actual		No.	of benefic	iaries traine	ed	No.	of be	neficiarie	s taking up	activity
District	Project	Name of activity	required for the activity (Rs.)	Project Fund	Benefi- ciary	Others (pl. specify)	Total	Expenditure incurred on activity (Rs.)	SC	ST	Others	Women	Total	SC	ST	Others	Women	Total
																	•	

<sup>\*</sup> 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.

#### DETAILS OF OTHER LIVELIHOODS CREATED FOR LANDLESS PEOPLE:

9	9	10			11		12
No of porco	ns employed			Impact of liveli	hoods programme		
	the activity	Annual increase in income due to	v	ration neficiaries)	Development of backv	vard-forward linkages	Any other information
Total	Grand total (8+9)	activity (Rs.)	Pre-project	Post-project	Pre-project	Post-project	(PI. Specify)

#### **DETAILS OF OTHER LIVELIHOODS CREATED FOR FARMERS:**

1	2	3	4			5		6			7				8	
		Name of	Funds required		Sources o	f funding (Rs.	.)	Actual Expenditure	No.	of far	mers	trained	No. c		ers ta tivity	king up
District	Project	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
		Kitchen gardening	5.855	5.325	0.53		5.855	5.855					198	15		213
Ri-Bhoi	Ri-Bhoi	Tailoring	3.41	3.10	0.31		3.41	3.41					31			31
District	District IWMP – III Ag	Agriculture implement	5.325	5.325			5.325	5.325					198	15		213
		Carpentry	1.56	1.25	0.31		1.56	1.56				·	25			25

<sup>\*</sup> 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.

#### **DETAILS OF OTHER LIVELIHOODS CREATED FOR FARMERS\* (CONTD.)**

	9	10				12	
No of nor	conc omployed			Impact of livel			
No. of persons employed indirectly in the activity		Annual increase in income due to	Migration (No. of beneficiaries)		Development of backward-forward linkages		Any other information (PI. Specify)
Total	Grand total (8+9)	activity (Rs.)	Pre-project	Post-project	Pre-project	Post-project	(Fl. Specity)
7	220	18,000					
	31	30,000					
	213	40,000					
10	35	50,000					

#### 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.)
Ri-Bhoi	Ri-Bhoi	(A) Backward linkages			
District	IWMP - III	(i) Seed certification			
		(ii) Seed supply system			
		(iii) Fertilizer supply system			
		(iv) Pesticide supply system			
		(v) Credit institutions		3 nos.	4 nos.
		(vi) Water supply			5 nos.
		(vii) Extension services		3 nos.	7 nos.
		(viii) Nurseries			
		(ix) Tools/machinery suppliers			
		(x) Price Support system			
		(xi) Labour			
		(xii) Any other (please specify)			
		(B) Forward linkages			
		(i) Harvesting/threshing machinery			
		(ii) Storage (including cold storage)			
		(iii) Road network			
		(iv) Transport facilities			
		(v) Markets / Mandis		2 nos.	2 nos.
		(vi) Agro and other Industries			
		(vii) Milk and other collection centres			
		(viii) Labour			
		(ix) Any other (please specify)			

<sup>\*</sup> 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.

#### **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		Poor	Good	
		Ground water structures repaired/ rejuvenated				
		Quality of drinking water		Moderate portable	Improved	
		Availability of drinking water		Insufficient	Sufficient	
		Increase in irrigation potential		Nil	244 ha.	
		Change in cropping/land use pattern				
		Area under agricultural crop				
		i Area under single crop		96 ha.		
		ii Area under double crop		Nil	67 ha.	
		iii Area under multiple crop		81 ha.	140 ha.	
		Net increase in crop production area		177 ha.	244 ha.	
		Increase in area under vegetation		88 ha.	128 ha.	
		Increase in area under horticulture/Cash crop		20 ha.	212 ha.	
		Increase in area under fuel & fodder		40 ha.	140 ha.	
		Increase in milk production				
		No. of SHGs		4 nos.	26 nos.	
		Increase in no. of livelihoods			9 nos.	
		Increase in income			Rs. 35,000/-	
		Migration		Nil	Nil	
		No. of school going children		433 nos.	578 nos.	
		SHG Federations formed		Nil	Nil	
		Credit linkage with banks		2 nos.	4 nos.	
		Resource use agreements			5 nos.	
		WDF collection & management			2 nos.	
		Summary of lessons learnt	May b	e attached as a separa	ate file	

#### COST EFFECTIVENESS OF STRUCTURES/ ACTIVITIES\*

1	2	3	4	5	6	7	8	9	10
District	Name of project	Name of WC	Name of structure/ activity	Estimated cost (Rs.)	Expected quantifiable benefits (Rs.)	Expenditure incurred (Rs.)	Actual quantifiable benefit (Rs.)	Benefit: Cost ratio#	IRR
Ri-Bhoi District	Ri-Bhoi IWMP – III	1. Umsukun WC 2. Umlanglut WC	As per treatment Plan	115.50 lakhs	173.25 lakhs	115.50 lakhs	174.41 lakhs	1:1.51	

<sup>\*</sup> 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.

<sup>#</sup> B:C ratio more than 1 –cost effective less than 1 – Not cost effective

# BENEFIT ACCRUED FROM GINGER CULTIVATION UNDER PRUDUCTION SYSTEM PER UNIT

Year	Project cost	Cultivation cost per Ha.	Area in Ha.	Total cultivation cost	Yield per Ha. in Qtl.	Total yield in Qtl.	Rate of produce per Qtl.	Benefits (Rs. in lakhs)
1 <sup>st</sup> year	50,000	-	-		-	-	-	-
2 <sup>nd</sup> year	-	97,480	1.00	97,480	78	78	2000	1,56,000
3 <sup>rd</sup> year	-	97,480	1.00	97,480	78	78	2000	1,56,000
4 <sup>th</sup> year	-	97,480	1.00	97,480	78	78	2000	1,56,000
5 <sup>th</sup> year	-	97,480	1.00	97,480	78	78	2000	1,56,000
6 <sup>th</sup> year	-	97,480	1.00	97,480	78	78	2000	1,56,000
7 <sup>th</sup> year	-	97,480	1.00	97,480	78	78	2000	1,56,000
8 <sup>th</sup> year	-	97,480	1.00	97,480	78	78	2000	1,56,000
9 <sup>th</sup> year	-	97,480	1.00	97,480	78	78	2000	1,56,000
10 <sup>th</sup> year	-	97,480	1.00	97,480	78	78	2000	1,56,000
		Т	<b>'otal</b>	8,77,320				14,04,000

# **COST BENEFIT RATIO**

Year	Project cost	Total cultivation cost	<b>Total benefits</b>	Discount factor	Discounted cost	Discounted Benefits
1 <sup>st</sup> year	50,000	-	-	0.870	43,500	-
2 <sup>nd</sup> year	-	97,480	1,56,000	0.756	73,695	1,17,936
3 <sup>rd</sup> year	-	97,480	1,56,000	0.658	64,142	1,02,648
4 <sup>th</sup> year	-	97,480	1,56,000	0.572	55,759	89,232
5 <sup>th</sup> year	-	97,480	1,56,000	0.497	48,448	77,532
6 <sup>th</sup> year	-	97,480	1,56,000	0.432	42,111	67,392
7 <sup>th</sup> year	-	97,480	1,56,000	0.376	36,652	58,656
8 <sup>th</sup> year	-	97,480	1,56,000	0.327	31,876	51,012
9 <sup>th</sup> year	-	97,480	1,56,000	0.284	27,684	44,304
10 <sup>th</sup> year	-	97,480	1,56,000	0.247	24,078	38,532
	•			Total	4,47,945	6,47,244

Cost Benefit Ratio = 
$$\frac{\text{Benefits}}{\text{Costs}}$$
 = Rs.  $\frac{6,47,244}{4,47,945}$  = 1:1.44

#### BENEFIT ACCRUED FROM PIGGERY FARMING UNDER PRODUCTION SYSTEM PER UNIT

Year	No. of piglets tobe provided	Cost of 1 no. piglets	Total cost of piglets	Cost of construction of pigsty (material)	Cost of feed, medicine etc.	Labour cost	Total expenditure	Selling price of piglets	Selling price of adult pig	Total selling price
1 <sup>st</sup> year	8 nos.	1500	12,000	10,000	15,000	12,000	49,000	-	-	-
2 <sup>nd</sup> year	-	-	-	-	15,000	6000	21,000	20,000	16,000	36,000
3 <sup>rd</sup> year	-	-	-	-	15,000	6000	21,000	30,000	20,000	50,000
4 <sup>th</sup> year	-	-	-	-	15,000	6000	21,000	32,000	25,000	57,000
5 <sup>th</sup> year	-	-	-	-	15,000	6000	21,000	36,000	30,000	66,000
					Т	otal	1,33,000			2,09,000

Cost Benefit Ratio = 
$$\frac{\text{Total Selling price}}{\text{Total Expenditure}} = \text{Rs.} \quad \frac{2,09,000}{1,33,000} = 1:1.57$$

#### BENEFIT ACCRUED FROM PISCICULTURE PER UNIT UNDER PRODUCTION SYSTEM

Year	No. of fingerlings tobe provided	Cost of fingerlings	Cost of construction of pond	Cost of feed, medicine etc.	Labour cost	Total expenditure	Quantity of fish harvested in Kg.	Selling price per Kg.	Total selling price
1 <sup>st</sup> year	3000 nos.	3000	16,000	6000	9000	34,000	-	-	-
2 <sup>nd</sup> year	-	-	-	7500	10,000	17,500	-	-	-
3 <sup>rd</sup> year	5000 nos.	5000	-	7500	10,000	22,500	1500	50	75,000
4 <sup>th</sup> year	-	-	-	7500	10,000	17,500	800	50	40,000
5 <sup>th</sup> year	-	-	-	7500	10,000	17,500	1300	50	65,000
					Total	1,09,000			1,80,000

Cost Benefit Ratio = 
$$\frac{\text{Total Selling price}}{\text{Total Expenditure}} = \text{Rs.} \quad \frac{1,80,000}{1,09,000} = 1:1.65$$

#### BENEFIT ACCRUED FROM REARING OF MILCH COWS UNDER PRODUCTION SYSTEM PER UNIT

Year	No. of milch cows tobe provided	Cost price of 2 nos. milch cow	Cost of construction of shed (material)	Cost of feed, medicine etc. annually	Labour cost annually	Total expenditure	Yield of milk annually in M.T.	Selling price of milk per M.T.	Total selling price of milk
1 <sup>st</sup> year	2 nos.	50,000	20,000	36,000	18,000	1,24,000	-	-	-
2 <sup>nd</sup> year	-	-	-	36,000	13,000	49,000	-	-	-
3 <sup>rd</sup> year	-	-	-	36,000	13,000	49,000	7.2	18,000	1,29,600
4 <sup>th</sup> year	-	-	-	36,000	13,000	49,000	10.8	18,000	1,94,400
5 <sup>th</sup> year	-	-	-	36,000	13,000	49,000	10.8	18,000	1,94,400
					Total	3,20,000			5,18,400

Cost Benefit Ratio = 
$$\frac{\text{Total Selling price}}{\text{Total Expenditure}} = \text{Rs.} \quad \frac{5,18,400}{3,20,000} = 1:1.62$$

# COST BENEFIT RATIO FROM DIFFERENT CROPS

Year	Project cost i. Improvement of existing Paddy field Rs. 4.13 ii. Crop Demonstration Rs. 1.50 iii. Drainage line Treatment Rs. 32.17 (Rs. in lakhs)	Total cultivation cost (Rs. in lakhs)	Total Benefits (Rs. in lakhs)	Discount factor (15%)	Discounted cost (Rs. in lakhs)	Discounted Benefits (Rs. in lakhs)
1 <sup>st</sup> year	37.80	-	-	0.870	32.89	-
2 <sup>nd</sup> year	-	110.23	160.91	0.756	83.33	121.65
3 <sup>rd</sup> year	-	110.23	160.91	0.658	72.53	105.88
4 <sup>th</sup> year	-	110.23	160.91	0.572	63.05	92.04
5 <sup>th</sup> year	-	110.23	160.91	0.497	54.78	79.97
6 <sup>th</sup> year	-	110.23	160.91	0.432	47.62	69.51
7 <sup>th</sup> year	-	110.23	160.91	0.376	41.45	60.50
8 <sup>th</sup> year	-	110.23	160.91	0.327	36.05	52.62
9 <sup>th</sup> year	-	110.23	160.91	0.284	31.31	45.70
10 <sup>th</sup> year	-	110.23	160.91	0.247	27.23	39.74
	•			Total	490.24	667.61

Cost Benefit Ratio = 
$$\frac{\text{Benefits}}{\text{Costs}} = \text{Rs.} \frac{667.61}{490.24} = 1:1.36$$

# STATEMENT SHOWING THE TOTLA CULTIVATION COSTS AND RETURNS OF DIFFERENT CROPS (COST TOBE BORNED BY THE FARMERS)

Season	Сгор	Cultivation cost per Ha.	Total Area in Ha.	Total cultivation cost in Ha. (Rs. in lakhs)	Yield per Ha. in Qtl.	Total yield per Ha. in Qtl.	Rate of product per Qtl. (Rs. in lakhs)	Returns (Rs. in lakhs)
K	Paddy	31843	96	30.57	25	2400	1200	28.80
K	Ginger	97480	35	34.12	78	2738	2000	54.76
K	Turmeric	75821	20	15.16	89	1780	1500	26.70
K	Yam	30500	20	6.10	60	1200	1000	12.00
K	Chilies	55540	6	3.33	15	90	2500	2.25
R	Potato	34290	40	13.72	80	3200	800	25.60
R	Tomato	26790	27	7.23	40	1080	1000	10.80
	•	•	Total	110.23				160.91

# COST BENEFIT RATIO FROM BANANA AND BETEL LEAF

Year	Total cultivation cost (Rs. in lakhs)	Total Benefits (Rs. in lakhs)	Discount Factor (15%)	Discounted cost (Rs. in lakhs)	Discounted Benefits (Rs. in lakhs)
Preliminary work to 2 <sup>nd</sup> year maintenance	7.96	-	0.870	6.93	-
3 <sup>rd</sup> year	2.37	-	0.756	1.79	-
4 <sup>th</sup> year	3.03	4.08	0.658	1.99	2.68
5 <sup>th</sup> year	3.54	7.44	0.572	2.02	4.26
6 <sup>th</sup> year	4.02	10.80	0.497	2.00	5.37
7 <sup>th</sup> year	4.02	13.74	0.432	1.74	5.94
8 <sup>th</sup> year	4.02	13.74	0.376	1.51	5.17
9 <sup>th</sup> year	4.02	15.48	0.327	1.31	5.06
10 <sup>th</sup> year	4.02	15.48	0.284	1.14	4.40
			Total	20.43	32.88

Cost Benefit Ratio = 
$$\frac{\text{Benefits}}{\text{Costs}} = \text{Rs.} \frac{32.88}{20.43} = 1:1.61$$

### STATEMENT SHOWING THE TOTAL CULTIVATION COSTS AND BENEFITS FROM BANANA (FROM PRELIMINARY WORK TO $2^{\rm ND}$ YEAR MAINTENACE FROM THE PROJECT FUND AND $3^{\rm RD}$ YEAR UPTO $10^{\rm TH}$ YEAR MAINTENANCE TO BE BORNED BY THE BENEFICIAIRES)

Year	Cultivation cost per Ha. (Rs.)	Total area in Ha.	Total cultivation cost (Rs. in lakhs)	Yield per Ha. in Bundle	Total yield in Bundle	Rate of produce in Bundle	Benefits	
Preliminary work to 2 <sup>nd</sup> year	7400	30.00	2.22	-	-	-	-	
maintenance 3 <sup>rd</sup> year	2300	30.00	0.69	_	-	-	_	
4 <sup>th</sup> year	3300	30.00	0.99	200	6000	20	1.20	
5 <sup>th</sup> year	3800	30.00	1.14	400	12000	20	2.40	
6 <sup>th</sup> year	4200	30.00	1.26	600	18000	20	3.60	
7 <sup>th</sup> year	4200	30.00	1.26	850	25500	20	5.10	
8 <sup>th</sup> year	4200	30.00	1.26	850	25500	20	5.10	
9 <sup>th</sup> year	4200	30.00	1.26	900	27000	20	5.40	
10 <sup>th</sup> year	4200	30.00	1.26	900	27000	20	5.40	
		Total	11.34				28.20	

# STATEMENT SHOWING THE TOTAL CULTIVATION COSTS AND BENEFITS FROM BETEL LEAF (FROM PRELIMINARY WORK TO $2^{\rm ND}$ YEAR MAINTENACE FROM THE PROJECT FUND AND $3^{\rm RD}$ YEAR UPTO $10^{\rm TH}$ YEAR MAINTENANCE TO BE BORNED BY THE FARMERS)

Year	Year Cultivation cost per Ha. (Rs.) Total in H		Total cultivation cost (Rs. in lakhs)	Yield per Ha. in Bundle	Total yield in Bundle	Rate of produce in Bundle	Benefits	
Preliminary work to 2 <sup>nd</sup> year maintenance	o 2 <sup>nd</sup> year 7970 72.00		5.74	-	-	-	-	
3 <sup>rd</sup> year			1.68	-	-	-	-	
4 <sup>th</sup> year	2837	72.00	2.04	400	28800	10	2.88	
5 <sup>th</sup> year	3337	72.00	2.40	700	50400 72000	10 10	5.04	
6 <sup>th</sup> year	3837	72.00	2.76	1000			7.20	
7 <sup>th</sup> year	3837	72.00	2.76	1200	86400	10	8.64	
8 <sup>th</sup> year	3837	72.00	2.76	1200	86400	10	8.64	
9 <sup>th</sup> year	3837	72.00	2.76	1400	100800	10	10.08	
10 <sup>th</sup> year	3837	72.00	2.76	1400	100800	10	10.08	
	•	Total	25.66				52.56	

#### COST BENEFIT RATIO FROM ARECANUT AND ORANGE

Year	Project cost construction of Box Terrace	Total cultivation cost (Rs. in lakhs)	Total Benefits (Rs. in lakhs)	Discount factor (15%)	Discounted cost (Rs. in lakhs)	Discounted Benefits (Rs. in lakhs)
$1^{st} - 2^{nd}$ year	3	11.90	-	0.870	12.96	-
3 <sup>rd</sup> – 8 <sup>th</sup> year	-	17.19	-	0.756	13.00	-
9 <sup>th</sup> year	-	3.72	7.60	0.658	2.45	5.00
10 <sup>th</sup> year	-	4.27	15.04	0.572	2.44	8.60
11 <sup>th</sup> year	-	4.82	20.64	0.497	2.40	10.26
12 <sup>th</sup> year	-	5.07	26.80	0.432	2.19	11.58
13 <sup>th</sup> year	-	5.07	30.96	0.376	1.91	11.64
14 <sup>th</sup> year	-	5.07	32.40	0.327	1.66	10.59
15 <sup>th</sup> year	-	5.07	32.40	0.284	1.44	9.20
				Total	40.45	66.87

Cost Benefit Ratio = 
$$\frac{\text{Benefits}}{\text{Costs}} = \text{Rs.} \frac{66.87}{40.45} = 1:1.65$$

### STATEMENT SHOWING THE TOTAL CULTIVATION COSTS AND BENEFITS FROM ARECANUT (FROM PRELIMINARY WORK TO 2<sup>ND</sup> YEAR MAINTENACE FROM THE PROJECT FUND AND 3<sup>RD</sup> YEAR UPTO 15<sup>TH</sup> YEAR MAINTENANCE TO BE BORNED BY THE FARMERS)

Year	Cultivation cost per Ha. (Rs.)	Total area in Ha.	Total cultivation cost (Rs. in lakhs)	Yield per Ha. in Qtl.	Total yield in Qtl.	Rate produce per Qtl.	Benefits	
Preliminary work to 2 <sup>nd</sup> year maintenance	12680	60.00	7.61	-	-	-	-	
3 <sup>rd</sup> year to 8 <sup>th</sup> year maintenance	15156	60.00	9.09	1	-	-	-	
9 <sup>th</sup> year	3526	60.00	2.12	5	300	1200	3.60	
10 <sup>th</sup> year	4026	60.00	2.42	7	420	1200	5.04	
11 <sup>th</sup> year	4526	60.00	2.72	12	720	1200	8.64	
12 <sup>th</sup> year	4526	60.00	2.72	15	900	1200	10.80	
13 <sup>th</sup> year	4526	60.00	2.72	18	1080	1200	12.96	
14 <sup>th</sup> year	4526	60.00	2.72	20	1200	1200	14.40	
15 <sup>th</sup> year	4526	60.00	2.72	20	1200	1200	14.40	
		Total	34.84				69.84	

### STATEMENT SHOWING THE TOTAL CULTIVATION COSTS AND BENEFITS FROM ORANGE (FROM PRELIMINARY WORK TO $2^{\rm ND}$ YEAR MAINTENACE FROM THE PROJECT FUND AND $3^{\rm RD}$ YEAR UPTO $15^{\rm TH}$ YEAR MAINTENANCE TO BE BORNED BY THE FARMERS)

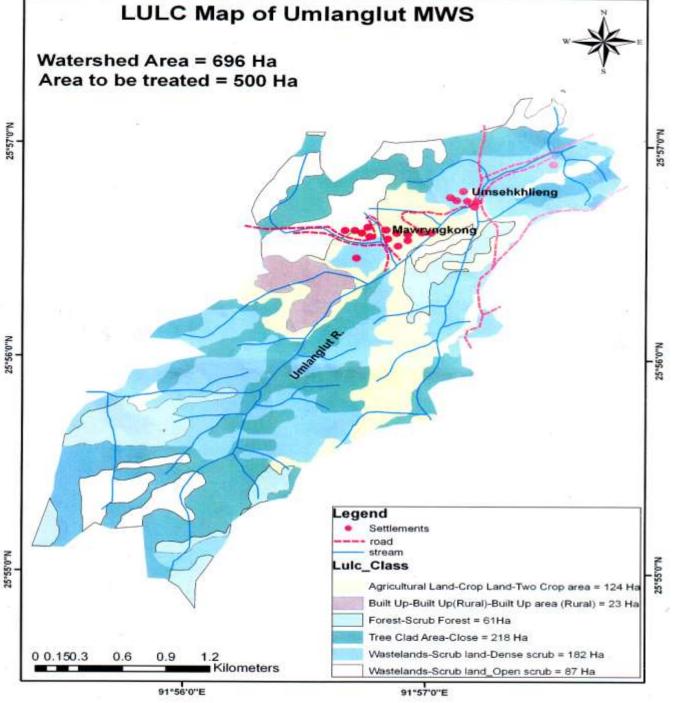
Year	Cultivation cost per Ha. (Rs.)	Total area in Ha.	Total cultivation cost (Rs. in lakhs)	Yield per Ha. in Qtl.	Total yield in Qtl.	Rate produce per Qtl.	Benefits	
Preliminary work to 2 <sup>nd</sup> year maintenance	8600	50.00	4.30	-	-	-	-	
3 <sup>rd</sup> year to 8 <sup>th</sup> year maintenance	16200	50.00	8.10	1	1	-	-	
9 <sup>th</sup> year	3200	50.00	1.60	8.00	200	2000	4.00	
10 <sup>th</sup> year	3700	50.00	1.85	10.00	500	2000	10.00	
11 <sup>th</sup> year	4200	50.00	2.10	15.00	600	2000	12.00	
12 <sup>th</sup> year	4700	50.00	2.35	18.00	800	2000	16.00	
13 <sup>th</sup> year	4700	50.00	2.35	20.00	900	2000	18.00	
14 <sup>th</sup> year	4700	50.00	2.35	20.00	900	2000	18.00	
15 <sup>th</sup> year	4700	50.00	2.35	20.00	900	2000	18.00	
		Total	27.35				96.00	

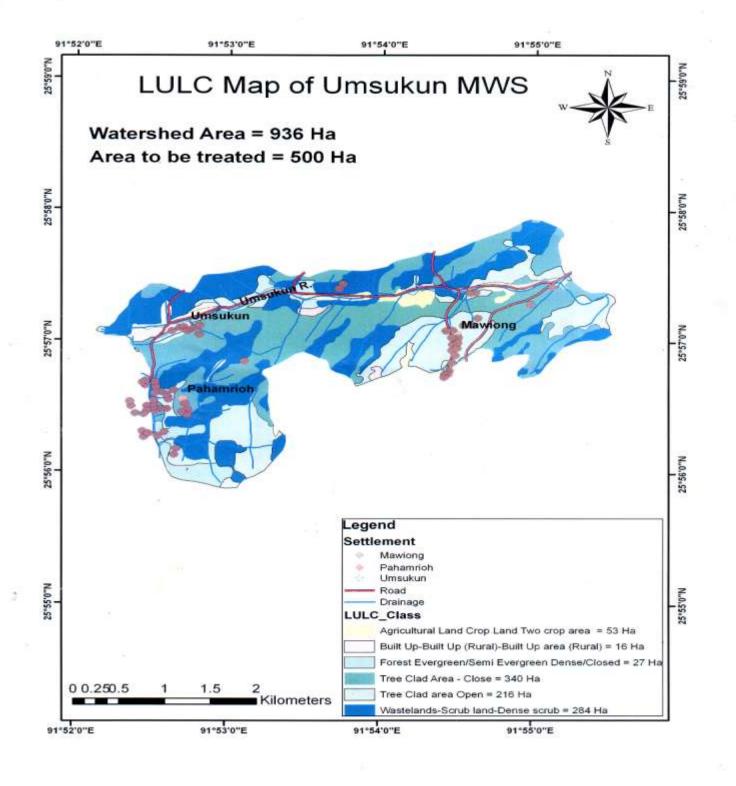
#### BENEFIT ACCRUED FROM GROCERY SHOP PER UNIT UNDER PRUDUCTION SYSTEM

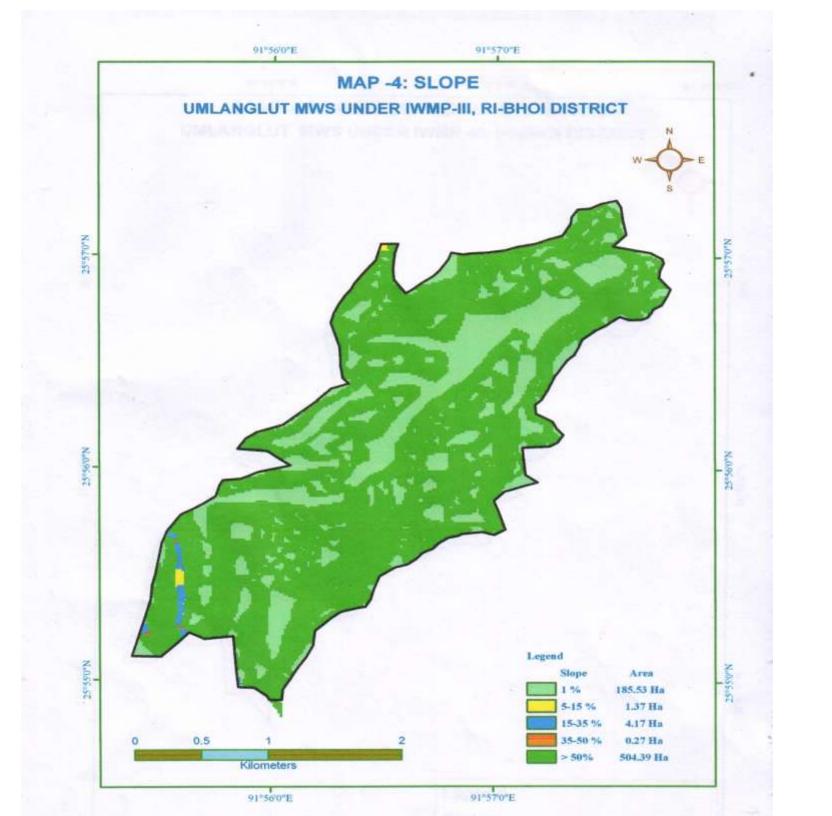
Month	Cost of essential commodities months	Cost of construction of house (material)	Labour cost per month	Total expenditure per month	Selling price of essential commodities per month					
1 <sup>st</sup> year	30,000	10,000	7600	47,600	37,500					
2 <sup>nd</sup> year	40,000	-	2600	42,600	50,000					
3 <sup>rd</sup> year	40,000	-	2600	42,600	50,000					
4 <sup>th</sup> year	40,000	-	2600	42,600	50,000					
5 <sup>th</sup> year	40,000	-	2600	42,600	50,000					
6 <sup>th</sup> year	40,000	-	2600	42,600	50,000					
7 <sup>th</sup> year	40,000	-	2600	42,600	50,000					
8 <sup>th</sup> year	40,000	-	2600	42,600	50,000					
9 <sup>th</sup> year	40,000	-	2600	42,600	50,000					
10 <sup>th</sup> year	40,000	-	2600	42,600	50,000					
11 <sup>th</sup> year	40,000	-	2600	42,600	50,000					
12 <sup>th</sup> year	40,000	-	2600	42,600	50,000					
	Total 5,16,200									

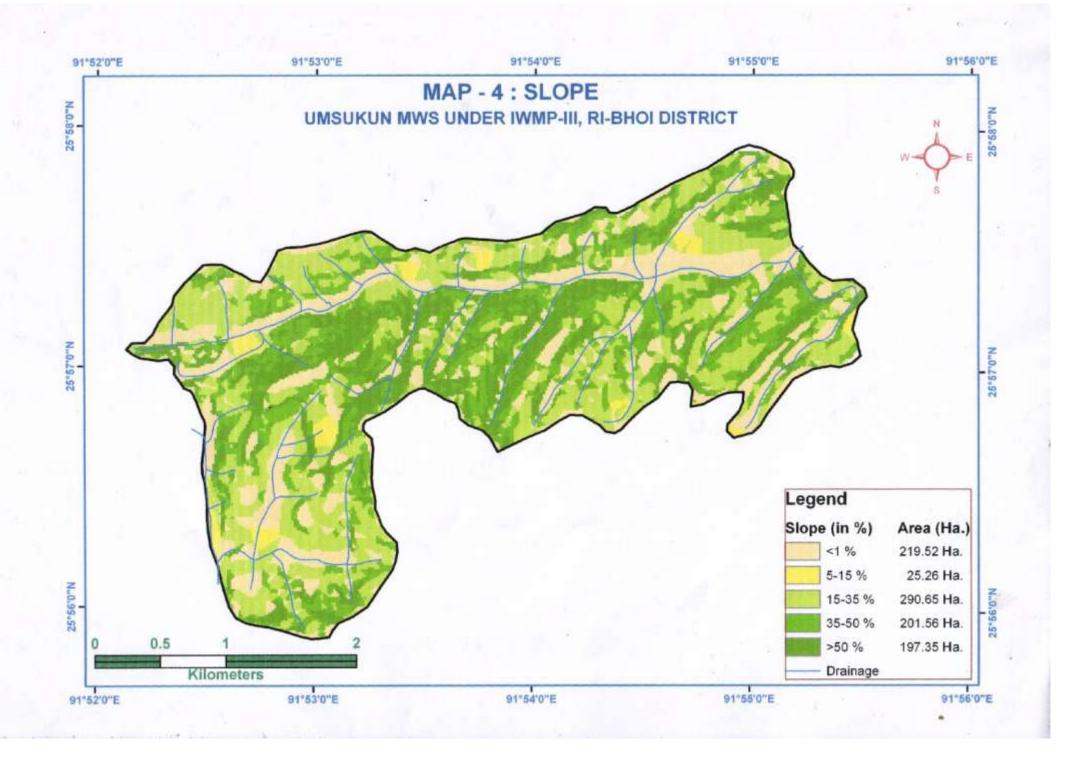
Cost Benefit Ratio = 
$$\frac{\text{Selling price}}{\text{Total expenditure}} = \text{Rs.} \frac{5,87,500}{5,16,200} = 1:1.14$$

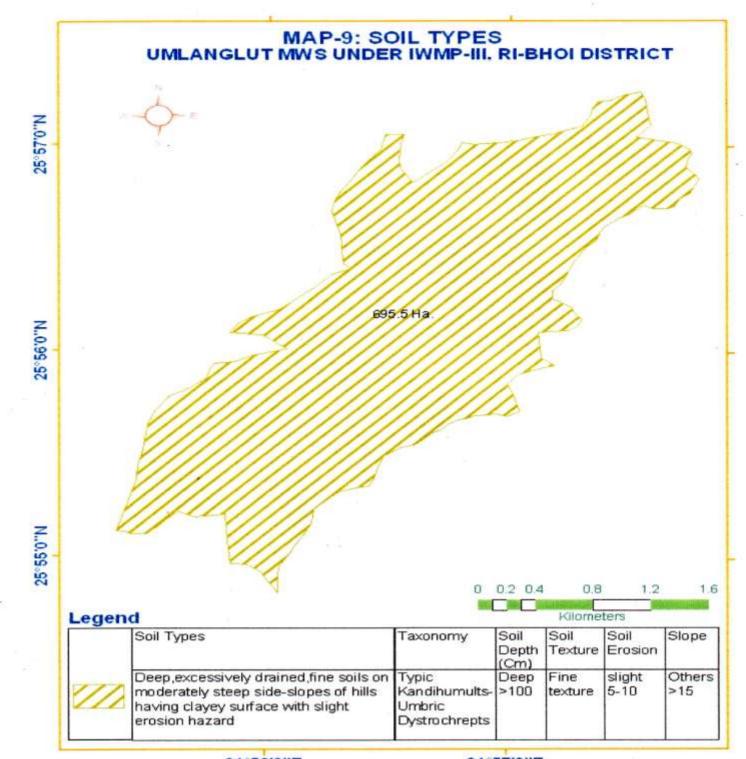
# ANNEXURE I MAPS

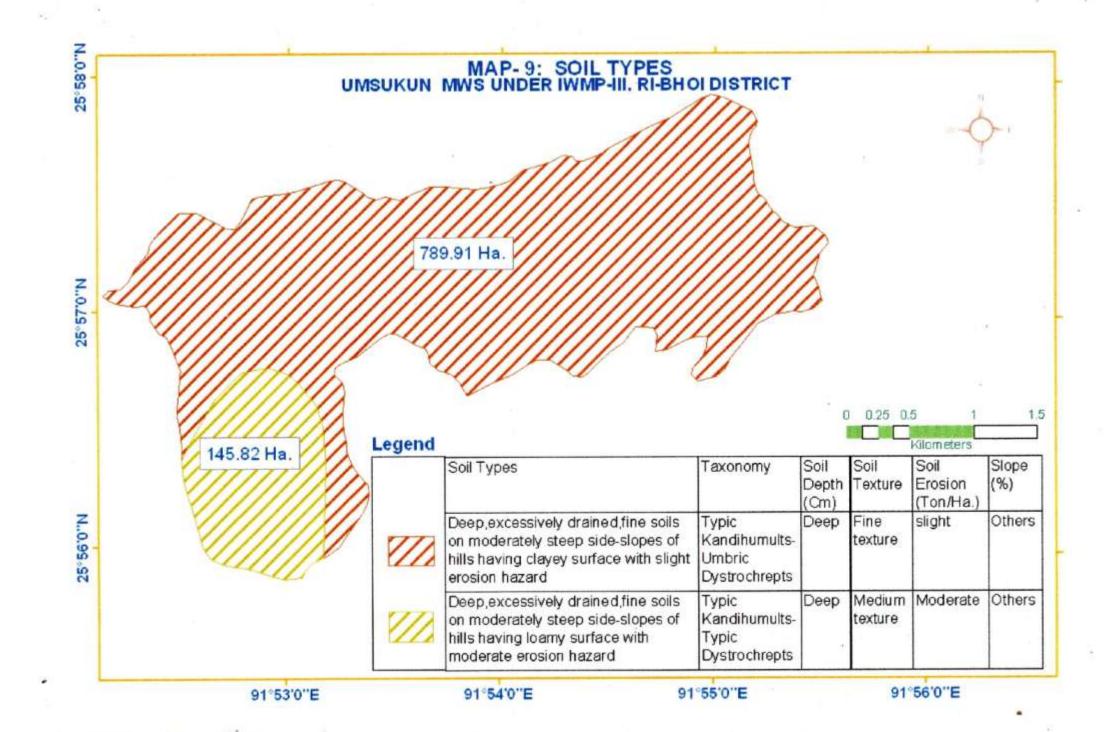


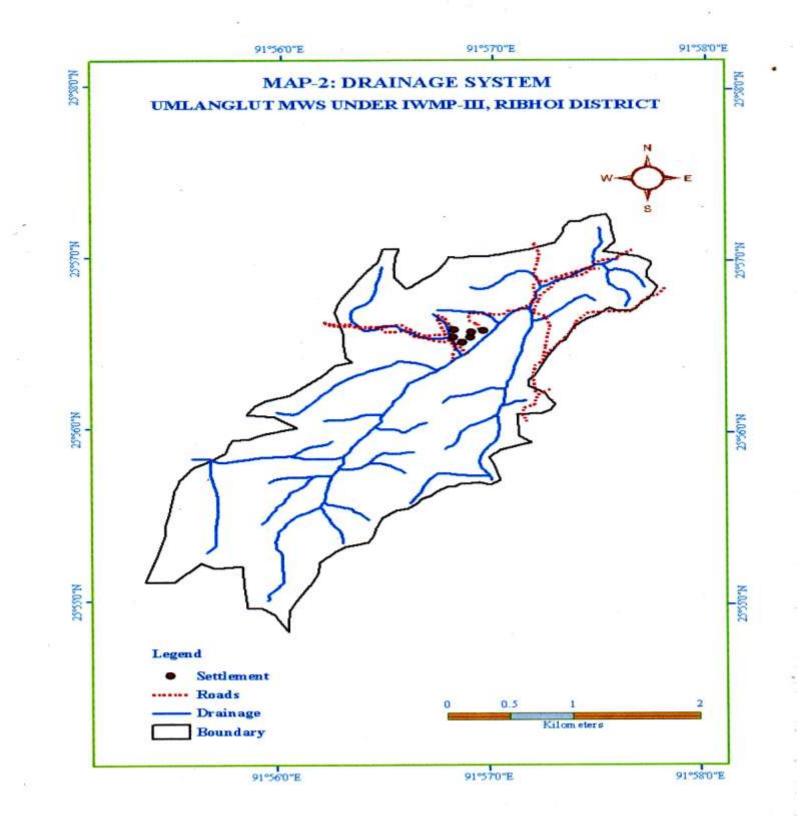


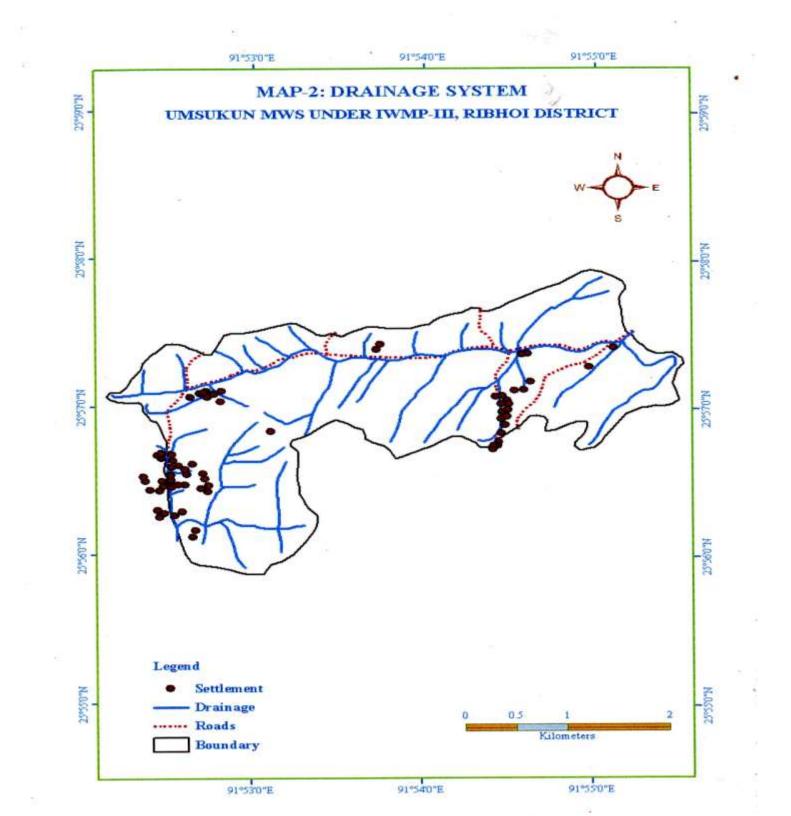


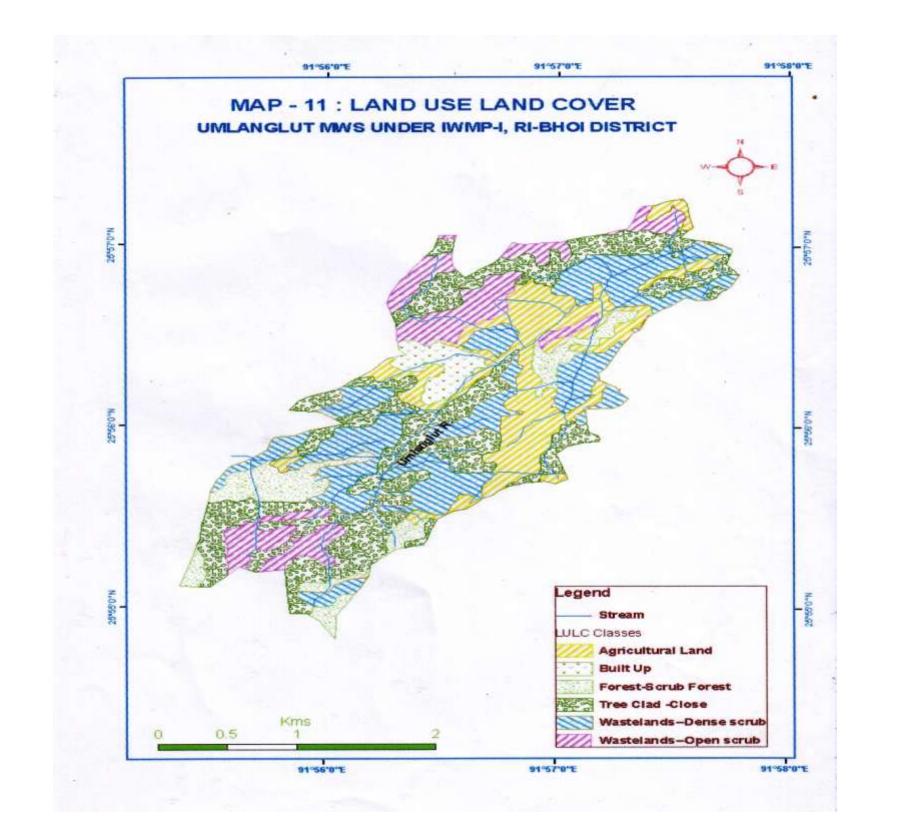


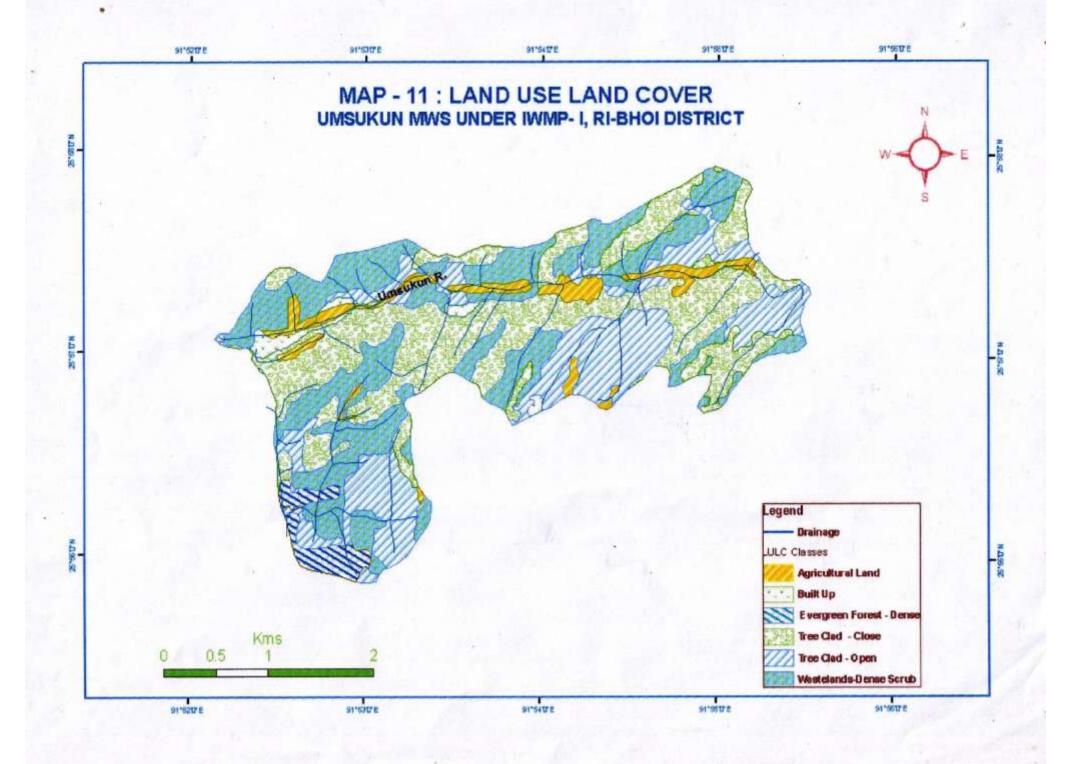


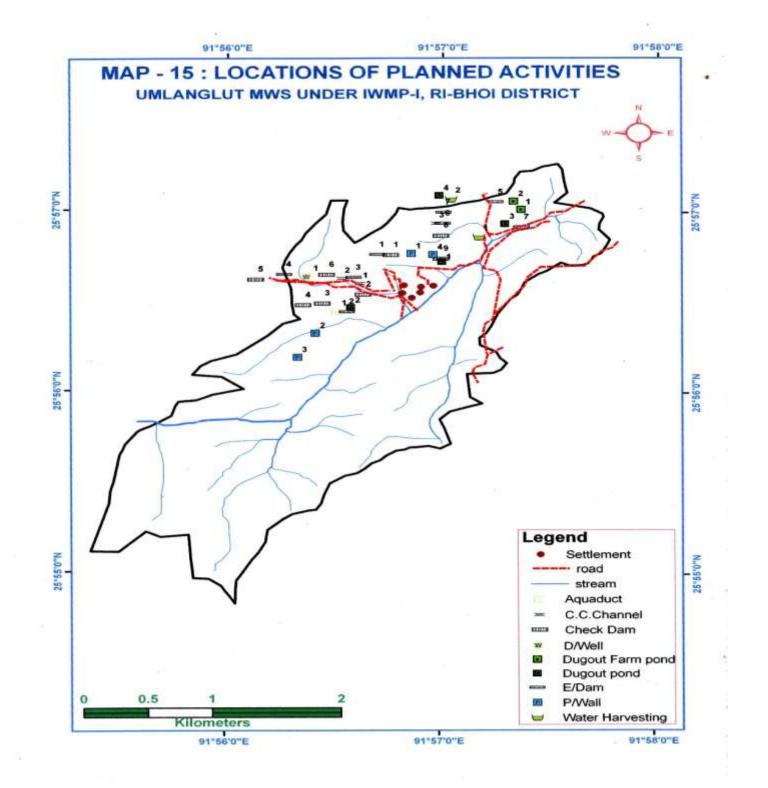


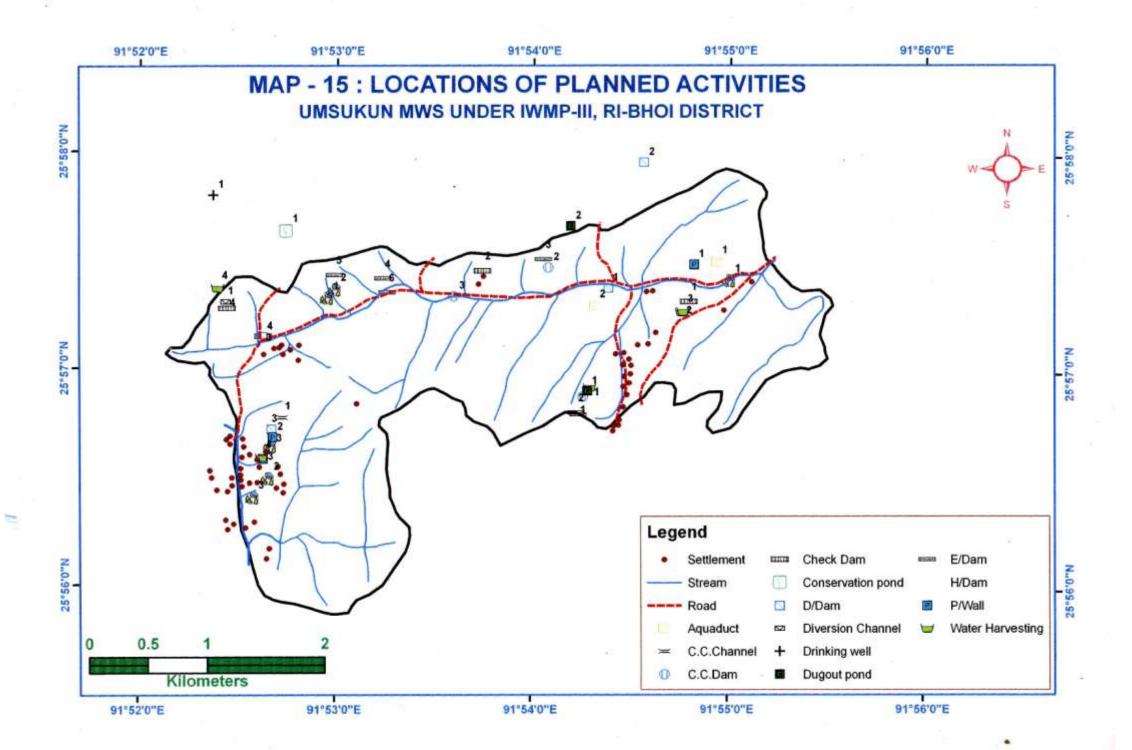


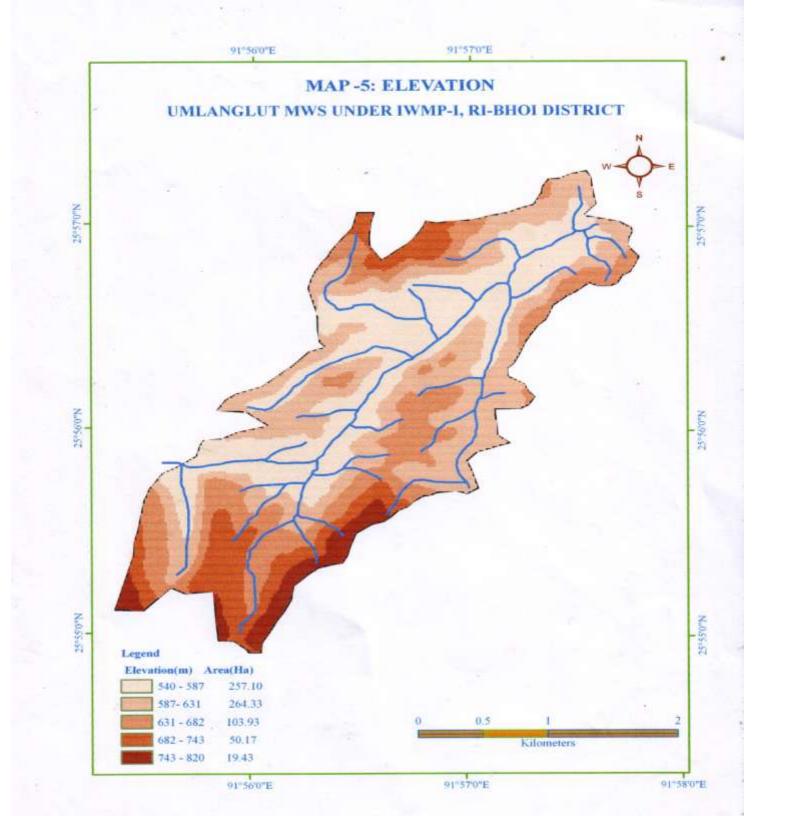


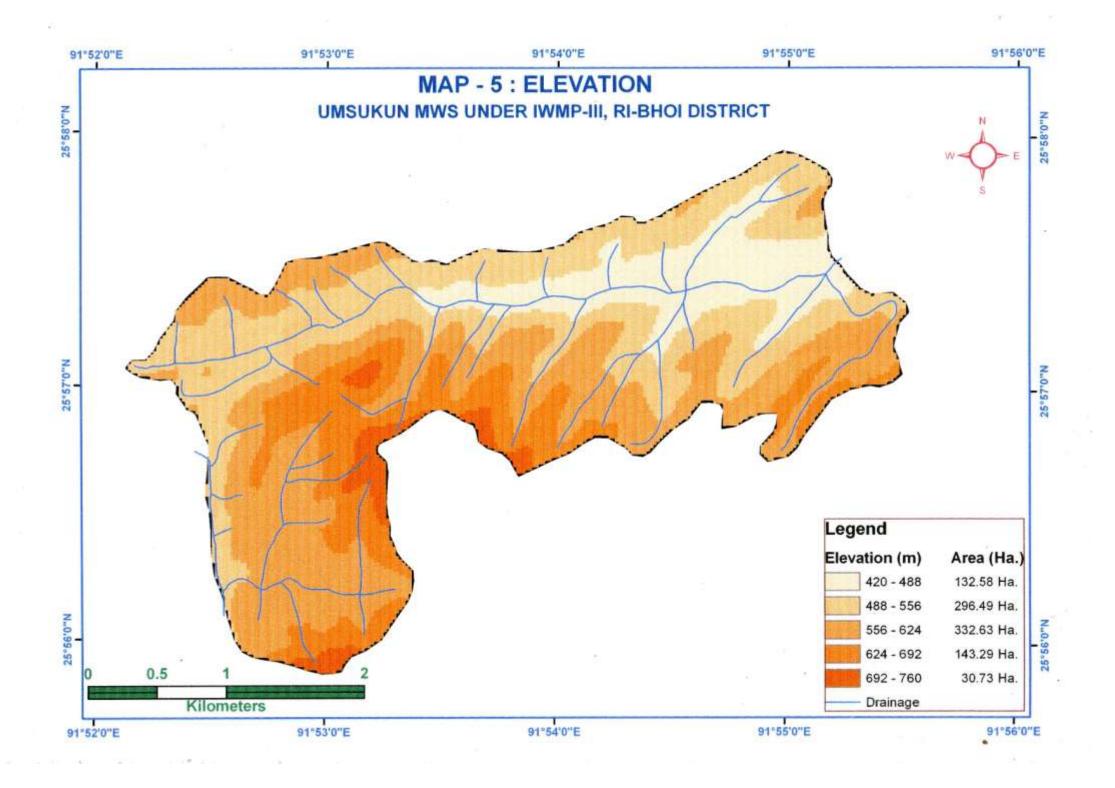


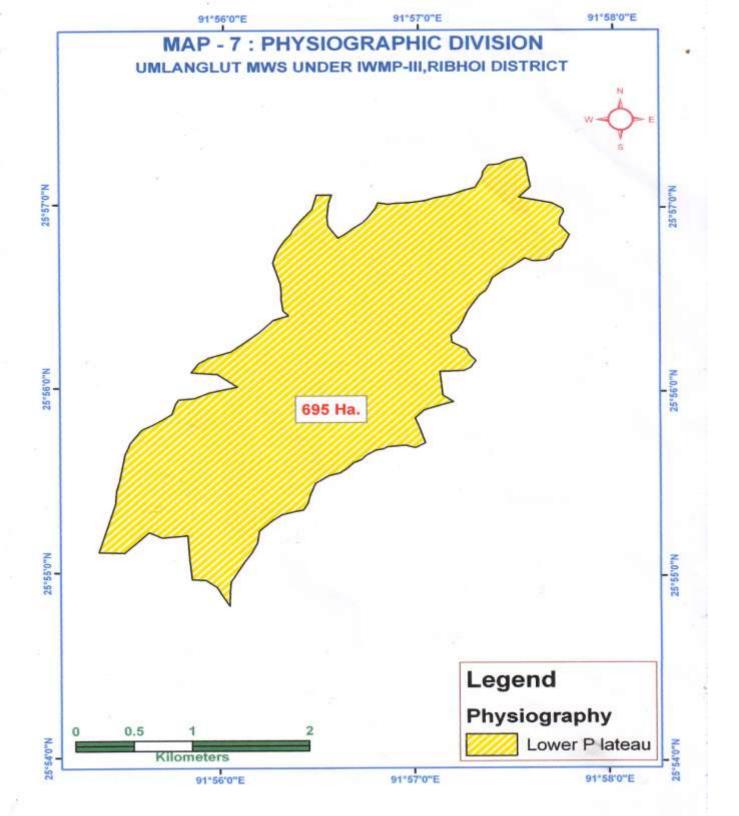


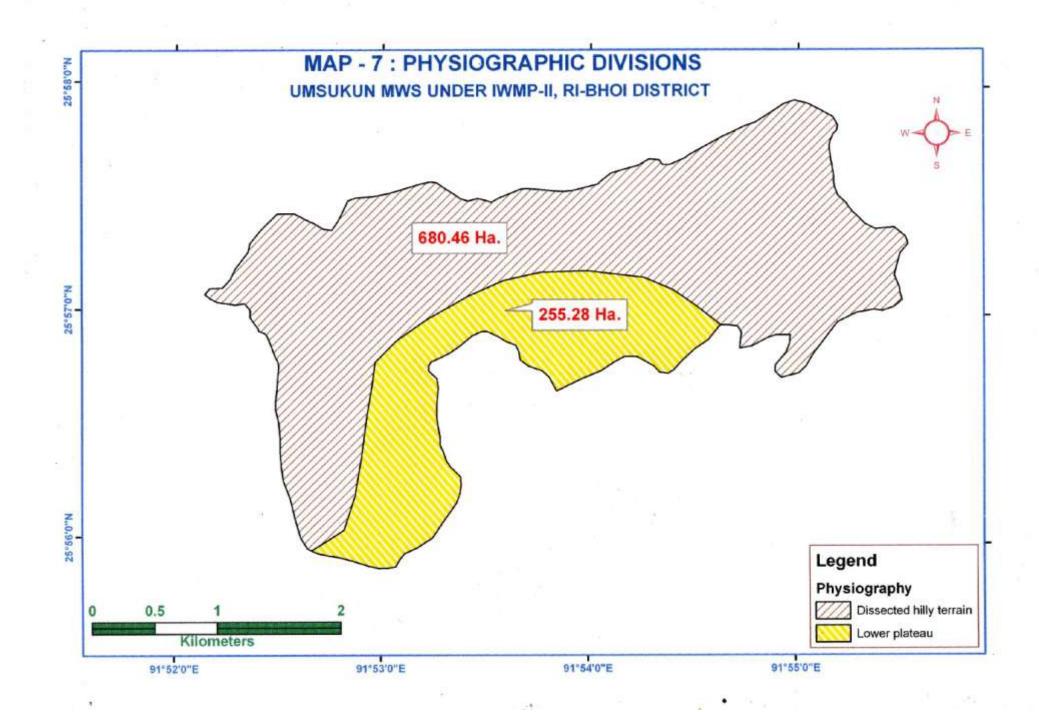


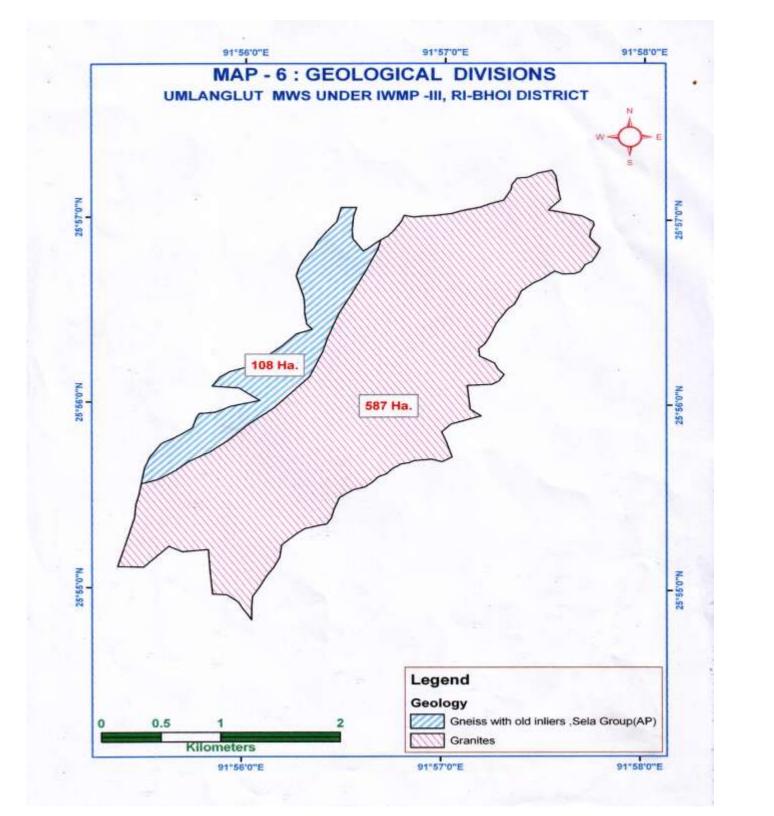


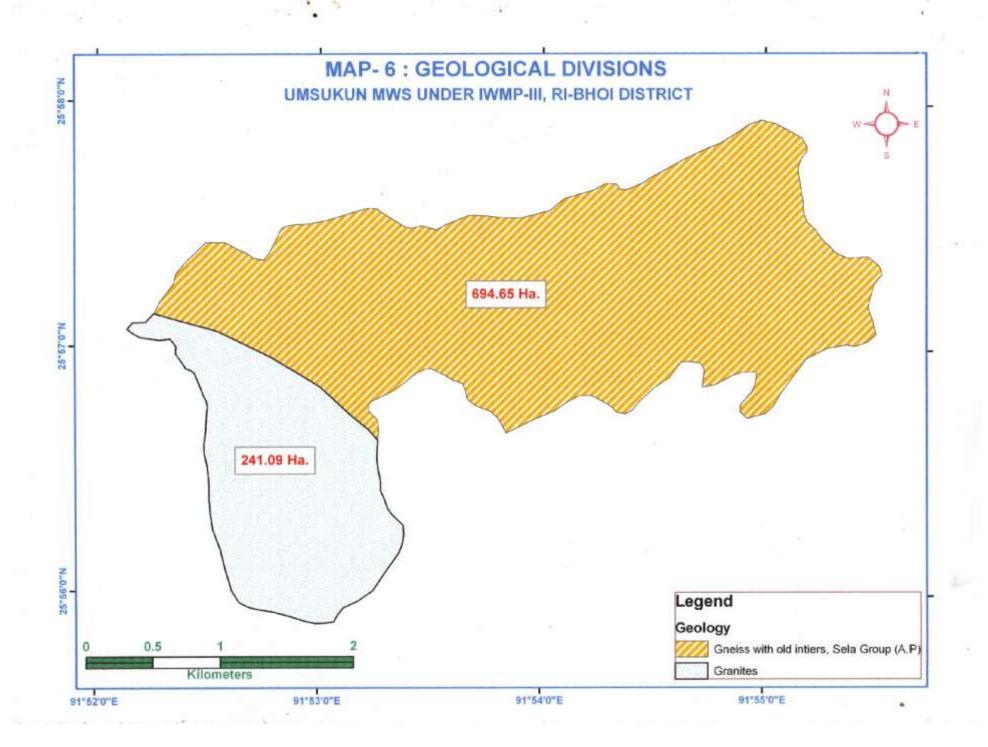












#### **ANNEXURE II**

**SOCIO - ECONOMIC** ABSTRACT

### SOIL & WATER CONSERVATION DEPARTMENT: RI-BHOI DISTRICT, MEGHALAYA SOCIO-ECONOMIC SURVEY FOR UMSIKUN & UMLANGLUT WATERSHED UNDER I.W.M.P - III, RI-BHOI DISTRICT

SI.				Populatio	n of family	1			L	and holding			Livestock/Nos.				
No.	Village	Adult	Male Minor	Total	Adult	female Minor	Total	Total	Irrigated (Ha)	Rainfed	Rainfed (Ha) Others	Total	Poultry	Piggery	Goat	Cattle	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	Umsukun village	49	71	120	48	48	96	216	-	14.6	34.3	48.9	320	13	-	-	333
2	Pahamrioh Lum village	53	67	120	47	57	104	224	-	19.8	46.28	66.08	160	13	-	4	177
3	Mawiong village	73	86	159	73	101	174	333	-	18.6	47.6	66.2	360	24	4	55	443
4	Umsehkhlieng village	42	58	100	44	67	321	211	-	39	-	39	200	-	20	3	223
5	Mawryngkang village	66	86	152	76	81	157	309	-	85	-	85	400	-	8	4	412

#### **ANNEXURE III**

MoA

### OFFICE OF THE DORBAR SHNONG UMSUKUN

RI-BHOI DISTRICT, NONGPOH

Ref:

"NO-OBJECTION BERTIFICATE"

Ka Dorbar Shoong lombulom Raid
Noughbrah, hi Bhoi histrict kam don zingerjor
ne fynthal halor ka zingfyntrei me momrah
in kino kino ki skinn are frozert da
ka office jorg ka Lail 4 worfer Lensenapen
ka office jorg ka Lail 4 worfer Lensenapen
pepartmen wongol hefol ka Shnory.
Nga kum a Ranglah Almory
orga fynslindra da kaba sair baid
seal harum:

D. Choy (Lee Shri. D. Khengkel) Ranginh Shang Umahum Ri - Shei Diarrios, Hongan

# THE DURBAR SHIPORG MAWIONG

MAID MONGLYNGDOH, RI BHOL

#### NO-OBJECTION-CERTIFICATE

ka Dorkar Strong Mawiong Raid Honglyngdoh likhoji District, kam don ging myor me pyrskah sa ka Soil & batir Consurvation Department ka kan peprtan me wanhah sa kimo kino ki Skin pyrkoi me Phopet hafoh ha Shuong gong ngi .

Haga se Kangkah Shuong aya pyrshisha dakaha soi bad sit hasem .

J. Nongum

Manifold Strong
Manifold None

### OFFICE OF THE DORBAR SHNONG PAHAMRIOH LUM

RI-BHOI DISTRICT, NONGPOH

Ref:

Date

NO-OBJECTION CERTEFERATE

Ka Dorbar Shnong Pahameich Lum Raid Morghrad, Ri Bhos Distict, Kom don ka jing rijor ne Spyrshal in ha Soil 7 water conservation Department ban fryntrei me warrul, in kuno? ko Skim pynine project he bol lea strong

Ola kasa Soi kystey harum.

Rangbah Shnong Pahamrioh-Lum Ri-Bhoi Dist. Meghalaya

Date.....

#### DORBAR SHNONG MAWRYNGKANG

Ruid Nong Lyngdoh R. BOT DADIET, NAMED

N.O.C

Dex 70,09,2009

Nei Sam ka Ihnong mawnyng kong deka ping is Engew that jug met shing jong the a jos ne kam plier ha lor kate ka jiz Don Shrong jong ngi.

Kan mong said she phrong.

Klubler steben -

1. June. Hory keel. - T. Nongles ..

2. sij - maiong - Sime 3. Wak. makeri - Orrie 4. do dyngdol - Lugold 5. sof. makeri. Sms

### DORBAR SHNONG UMSEHKHLIENG RAID NONGLYNGDOH RI BHOI DISTRICT, MEGHALAYA

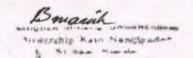
Ref. No .....

Date

NO- OSECTION CERTIFICATE

Ka Dorbar Shnong burschkhlung kaid Monglyng Soh, Rishoi District kain don ging ugor me pyrshah ia ka Soil & water Concervation Defartment ba han pyntrei me ban roh ia kino hino lei project Pyntroi ha poh ha Shnong.

Mga u Raybah-Shuoy nya pyeishieha da ha 30i bad Sil hateur.



### OFFICE OF THE DORBAR SHNONG UMSUKUN

RI-BHOI DISTRICT, NONGPOH

Ref:

Resource Agreement.

Date

Ngi ki nongshong shnong jong ka Shnong Umsukun kaba hap hapoh ka Umsukun Micro-Watershed IWMP Scheme, da ka Dorbar hi baroh kawei ngi la ia mynjur lang ba ia ka Entry Point Activity yn pyntrei ia ka lynti iaid kjat, ngi kular ba ngin sumar bha ia kine ki jingiarap jong ka Soil Department Ri-Bhoi District, Nongpoh ia ka Shnong jong ngi, bad kumjuh ruh ia kiwei de ki kam kiba dang sah.

D. May hour share as I - Shei District, Bangana Baragana

### OFFICE OF THE DORBAR SHNONG MAWIONG

RI-BHOI DISTRICT, NONGPOH

Ref:

Resource Agreement

Date

Ngi ki nongshong shnong jong ka Shnong Mawiong kaba hap hapoh ka Umsukun Micro-Watershed IWMP Scheme, da ka Dorbar hi baroh kawei ngi la ia mynjur lang ba ia ka Entry Point Activity yn pyntrei ia ka pung umdih bad ka jaka sum jaka sait, ngi kular ba ngin sumar bha ia kine ki jingiarap jong ka Soil Department Ri-Bhoi District, Nongpoh ia ka Shnong jong ngi, bad kumjuh ruh ia kiwei de ki kam kiba dang sah.

J.Non gitte

#### OFFICE OF THE DORBAR SHNONG PAHAMRIOH LUM

RI-BHOI DISTRICT, NONGPOH

Ref: Resource Agreement

Date

Ngi ki nongshong shnong jong ka Shnong Pahamrioh Lum kaba hap hapoh ka Umsukun Micro-Watershed IWMP Scheme, da ka Dorbar hi baroh kawei ngi la ia mynjur lang ba ia ka Entry Point Activity yn pyntrei ia ka pung umdih bad ka jaka sum jaka sait, ngi kular ba ngin sumar bha ia kine ki jingiarap jong ka Soil Department Ri-Bhoi District, Nongpoh ia ka Shnong jong ngi, bad kumjuh ruh ia kiwei de ki kam kiba dang sah.

Rangbah Shnong Pahamrioh-Lum Ri-Bhoi Dist. Meghalaya

### OFFICE OF THE DORBAR SHNONG MAWRYNGKANG

RI-BHOI DISTRICT, NONGPOH

Ref:

Resource Agreement

Date 2"

Ngi ki nongshong shnong jong ka Shnong Mawryngkang kaba hap hapoh ka Umlanglut Micro-Watershed IWMP Scheme, da ka Dorbar hi baroh kawei ngi la ia mynjur lang ba ia ka Entry Point Activity yn pyntrei ia ka lynti iaid kjat, ka pung umdih bad ka jaka sum jaka sait, ngi kular ba ngin sumar bha ia kine ki jingiarap jong ka Soil Department Ri-Bhoi District, Nongpoh ia ka Shnong jong ngi, bad kumjuh ruh ia kiwei de ki kam kiba dang sah.

CAN VENDE MANRANGKAN

### OFFICE OF THE DORBAR SHNONG UMSEHKHLIENG

RI-BHOI DISTRICT, NONGPOH

Ref: Resource Agreement

Date

Ngi ki nongshong shnong jong ka Shnong Umsehkhlieng kaba hap hapoh ka Umlanglut Micro-Watershed IWMP Scheme, da ka Dorbar hi baroh kawei ngi la ia mynjur lang ba ia ka Entry Point Activity yn pyntrei ia ka Pung umdih bad ka jaka sum jaka sait, ngi kular ba ngin sumar bha ia kine ki jingiarap jong ka Soil Department Ri-Bhoi District, Nongpoh ia ka Shnong jong ngi, bad kumjuh ruh ia kiwei de ki kam kiba dang sah.

Airdarakip Raid bionglyndes