

DETAILED PROJECT REPORT

UMLADEW-WAH LYNGDOH INTEGRATED WATERSHED MANAGEMENT PROJECT

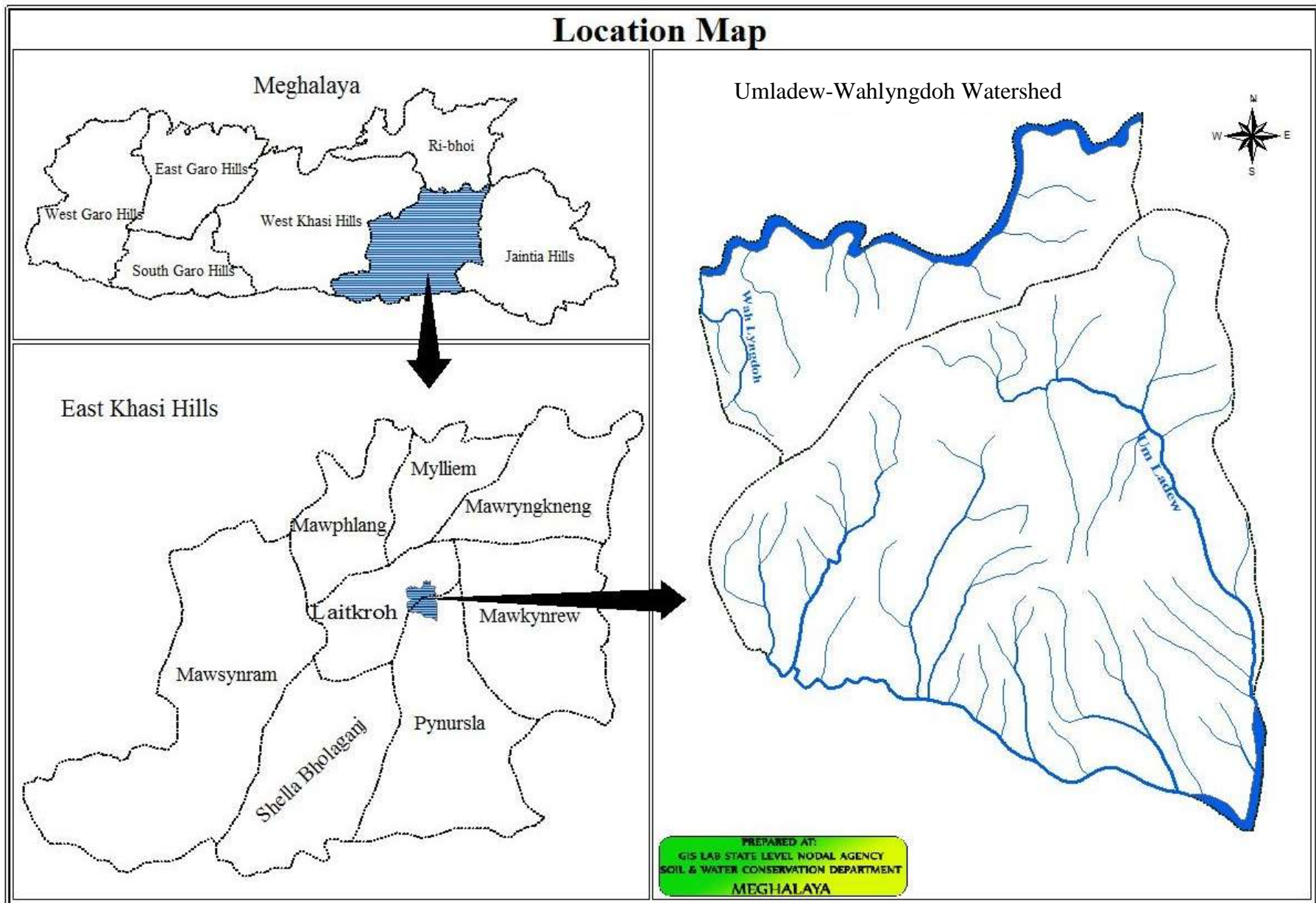
IWMP – X

2010 – 2011

LAITKROH KHATARSHNONG C & RD BLOCK

EAST KHASI HILLS DISTRICT, MEGHALAYA

Location Map



SUMMARY

Name of the State	:	Meghalaya
Name of the District	:	East Khasi Hills District
Name of the C&RD Block	:	Laitkroh Khatarshnong
Name of the Villages	:	(i) Madan Football (ii) Madan Lyngdoh (iii) Jalynteng (iv) Wah Tyngngai (v) Mawkynring
Name of the Project	:	East Khasi Hills – IWMP – X
Total Geographical Area	:	1402 Ha
Total Treatment Area	:	1000 Ha
Total Project Cost	:	150 lakhs
Project Duration	:	5 Years
Project Implementing Agency	:	Soil & Water Conservation Territorial Division, Shillong.



A VIEW OF THE WATERSHED AREA

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CHAPTER I

INTRODUCTION AND BACKGROUND

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INTRODUCTION AND BACKGROUND

1.1 Project Background:

The Umladew-Wah Lyngdoh (IWMP-X) project is located in Laitkroh C&RD Block, East Khasi Hills District of Meghalaya. Consisting of two micro-watersheds, the project area is drained by the Umladew River and the Wah Lyngdoh and their tributaries flowing in a north to south and south to north direction respectively. The total area is 1402 Ha. with 1000 Ha to be treated under the Integrated Watershed Management Programme (IWMP).

The Project area is located at a distance of about 45 km from Sohra the Civil Sub-Divisional Head Quarter and about 25 km from Shillong the District Headquarter and also the State Capital. A total of five villages are covered under the project. These are –

- 1 Madan Football
- 2 Madan Lyngdoh
- 3 Jalynteng
- 4 Wah Tyngngai
- 5 Mawkyring

1.2 Micro-watershed Information:

The micro-watershed codes are 3C1C2a4c (Umladew) and 3C1B5a2h (Wah Lyngdoh) as codified by the North East Space Application Centre (NESAC). The total area of the Umladew micro-watershed is 1085 Ha and Wah Lyngdoh micro-watershed is 317 Ha., with the cumulative treatable area of 1000 hectares to be taken up under the Integrated Watershed Management Programme (IWMP).

1.3 Need and Scope for Watershed Development:

The micro-watersheds 3C1C2a4c and 3C1B5a2h falls under the High Priority category as per the prioritization of watersheds by the North East Space Application Centre (NESAC). These two micro-watersheds falls as a part of the Shillong plateau. The project area consists mainly of degraded lands with small pockets of tree cover. Agriculture is the basic income of the people. During the off season people mostly earn through wage labour. An indigenous type of farming known as '*bun*' cultivation is mostly practiced by the people. In this type of farming a plot of land is cleared of vegetation and furrows and beds are made along the slope. The plot of land is cultivated for 3- 4 years after which the farmer shifts to another plot. Most of the people in the project area do not own agriculture land. Actually, the land on which most people cultivate is taken on lease from the land owners.

Even though the area receives sufficient rainfall during the monsoons, however during the winter season water is scarce and most of the springs become dry and the people have to travel further to fetch water even for domestic use.

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

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

- i. MGNREGS
- ii. Swarnjayanti Gram Swarozgar Yojana (SGSY)
- iii. Indira Awas Yojana (IAY)

CHAPTER II

BASIC INFORMATION OF THE PROJECT AREA

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BASIC INFORMATION OF THE PROJECT AREA

2.1 Location:

The Project area is located under Laitkroh Khatar Shnong C&RD Block of Sohra Civil Sub-Division, East Khasi Hills District. It is situated at a distance of about 25 km from Shillong the District Headquarter which is also the State Capital. The geographical location is between $91^{\circ} 51'$ to $91^{\circ} 53' 30''$ E Longitude and $25^{\circ} 25'$ to $25^{\circ} 28'$ N Latitude. There are 5 villages within the Watershed which are as follows –

1. Madan Football
2. Madan Lyngdoh
3. Jalynteng
4. Wah Tyngngai
5. Mawkyring

2.2 Physiography:

The physiography of the micro-watershed is undulating. The altitude ranges from a minimum of 1040 m to a high of 1860m above mean sea level. In the lower reaches (valley lands) the slope ranges from 7% to 75%.

Table 2.1: Physiographic details

Elevation (metres)	Slope Range (%)	Order of watershed Sub/Micro-watershed	Major streams	Topography
1040 m to 1860 m	7% to 75%	Micro Watershed	i) Umladew ii) Wah Lyngdoh	Strongly Sloping

2.3 Drainage: The major stream draining the micro-watersheds are the Umladew and Wah Lyngdoh which are 3rd order and 2nd order streams respectively. The Umladew flows in a north to south direction whereas the Wah lyngdoh stream flows in a south to north direction ultimately joining the Umiam river. The slopes of the micro-watershed are dissected by numerous small tributaries flowing to the both these streams.

2.4 Soil: Soil Texture is gravelly on the sloping lands and sandy on the low lying areas. Soil depth varies from very shallow to moderately deep. Soils are permeable and generally acidic in nature. Owing to highly undulating land form and absence of good vegetation cover, the area is exposed to erosion hazards. The soil nutrient status in the area shows a general trend of low phosphorous content.

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

1	2	3	4	5	6	7	8	9
Sl. No.	Names of State	Names of District	Names of Projects	Cause	Types of erosion	Area affected (ha)	Run-off (mm/ year)	Average soil loss (Tonnes/ ha/ year)
1	Meghalaya	East Khasi Hills	East Khasi Hills – IWMP X	Water erosion:				
				a	Sheet	750	2000-3000	30.00
				b	Rill	350	2000-3000	35.00
				c	Gully	-	-	-
				Sub total		1000		
				Wind erosion		Nil	Nil	Nil

2.5 Climate: The climate of the area is predominantly cold to severely cold during the winter months with cool to warm summers. The area on the higher reaches is warm during summer and cold during winter. The average annual rainfall varies between 1900mm to 3000mm.

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

1	2	3	4	5	6	7		8	9	
Sl. No.	Name of State	Name of the Agro-climatic zone	Area (in ha)	Names of the districts	Names of the Projects	Major soil types		Average annual rainfall in mm (preceding 5 years' average)	Major crops	
						a) Type	b) Area (ha)		a) Name	b) Area (ha)
1	Meghalaya	Southern Slopes and Valley	1000 Ha	East Khasi Hills	East Khasi Hills – IWMP – X	Moderately deep, excessively drained, fine – loamy soil on moderately steep side slopes of hills having loamy surfaces with severe erosion hazard and strong stoniness. moderately Shallow, excessively drained, loamy skeletal soils on gently sloping hill tops with very severe erosion hazard and slight stoniness	1402 Ha	2500 mm	Potato	200
									Millet	40
									Cauliflower	80
									Cabbage	70
								Total		390 Ha

2.6 Agriculture: Agriculture is the primary occupation of the people of the area. The people mostly practice '*bun cultivation*'. The bun plots vary from 0.2 to 0.5 Ha, and are cultivated for 4-6 years. The principal agricultural crops grown of the bun areas are potato, cabbage, cauliflower, millet. Vegetables are also widely grown in the home gardens. Fruit trees that are found to grow well in the area mainly comprise of local species like *Myrica esculenta*, and *Pyrus pashia*.

Table 2.4: Crop yield and production

Crops	Area (ha)	Average Yield (Qtl) per ha.	Total Production (Qtl.)
Potato	200	80	16000
Millet	40	10	400
Cauliflower	80	14	1120
Cabbage	70	18	1260

2.7 Natural Vegetation: The tree species common to the watershed area includes - *Quercus* spp. *Castanopsis* spp. *Myrica* spp., *Alnus nepalensis*, *Exbucklandia populnea*. However, due to improper use and management of the land resources, forest areas exists only in small pockets especially in the upland plateau region. The slopes which are on the southern part are having good vegetation cover, the main reason being the in accessibility of these steeply sloping lands.

2.8 Socio-Economic Profile: The people of the area are economically poor. The average income of a family can vary from Rs. 15000 to Rs. 20000 per annum. Lack of proper farming practices, incentives and avenues for improved market linkages and value addition has mostly rendered the farmers at a disadvantage.

Demographic Status: The total households in the watershed project is 222 with a total population of 1064, of which 543 are male and 521 are female. The detail of the household in each of the villages in the watershed project is as follows:

1.	Madan Football	-	49 Nos
2.	Madan Lyngdoh	-	255 Nos
3.	Jalynteng	-	173 Nos
4.	Wah Tyngngai	-	153 Nos
5.	Mawkynring	-	84 Nos
			714 Nos

Infrastructure facilities :

- 2.1.1 *Roads:* All the villages within the Project Area are connected by road.
- 2.1.2 *School:* there are 7 L.P Schools, 3 U.P Schools, 1 Secondary School within the Project.
- 2.1.3 *Electricity :* All the five villages are connected with electricity.
- 2.1.4 *Health :* One Dispensary Centre at madan Lyngdoh .
- 2.1.5 *Water Supply :* Drinking water supply have been provided partly by the PHE Deptt. but is often insufficient especially during the dry months. Most house holds have to depend on natural springs which are far from the village for drinking water.
- 2.1.6 *Market :* There is a weekly market held once in a week at Laitlyngkot. However, the main market where the people sell their produce is at Shillong.

Table 2.5: Infrastructure Status.

1	2	3		4			
Name of District	Name of Project	Parameters:		Status			
East Khasi Hills	East Khasi Hills – IWMP X	(i)	No. of villages connected to the main road by an all-weather road.	All 5 villages are connected by an all weather road.			
		(ii)	No. of village provided with electricity	All 5 nos. electrified			
		(iii)	No. of households without access to drinking water	Nil			
		(iv)	No. of educational institutions: Primary (P)/ Secondary (S)/ Higher Secondary (HS)/ Vocational institution (VI)	(P) 10 Nos.	(S) 1	(HS) -	(VI) -
		(v)	No. of village with access to Primary Health Centre	Nil			
		(vi)	No. of village with access Veterinary Dispensary	Nil			
		(vii)	No. of village with access Post Office	Nil			
		(viii)	No. of village with access Banks	Nil			
		(ix)	No. of village with access Markets/ mandis	Nil			
		(x)	No. of village with access Agro-Industries	Nil			
		(xi)	Total quantity of surplus milk	Nil			
		(xii)	No. of milk collection centres (e.g. Union (U)/ Society (S)/ Private agency (PA)/ Others (O))	(U) Nil	(S) Nil	(PA) Nil	(O) Nil
		(xiii)	No. of villages with access to Aganwadi Centres	1 No.			
		(xiv)	Any other facilities with no. of villages (please specify)	Nil			

2.9 Livestock: there are only 2 kinds of livestock which are commonly raised in the project area viz. Piggery and Poultry.

Table 2.6: Existing livestock population

Type of Animal	Population
Piggery	600
Poultry	2000

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

Table 2.7: Land Holding:

1	2	3	4	5	6		
Name of District	Name of the Project	Types of Farmer	No. of households	No. of BPL households	Land holding (ha)		
					Irrigated	Rainfed	Total
East Khasi Hills	East Khasi Hills – IWMP X	(i) Large	-	-			
		(ii) Small	73	-	-	250Ha	250 Ha
		(iii) Marginal	109	35	-	140 Ha	140 Ha
		(iv) Landless	532	532	-	-	-
		Sub - Total	714	567		390 Ha	390 Ha

Table 2.8: Common Property Resources in the Project Area

1	2	3	4				5			
Name of District	Name of the Projects	CPR Particulars	Total Area (ha) Area owned/ In possession of				Area available for treatment (ha)			
			Pvt. Person	Govt. (specify deptt.)	PRI	Any other (Community)	Pvt. Person	Govt. (specify deptt.)	PRI	Any other (Community)
East Khasi Hills	East Khasi Hills – IWMP X	(i) Wasteland/ degraded land	477	-		20	477	-	-	20
		(ii) Pastures	-	-	-	-	-	-	-	
		(iii) Private Agriculture land	19 Ha	-	-	-	19 Ha			
		(iv) Village woodlot	-	-	-	-	-			
		(v) Forest	-	-	-	320 Ha	-			
		(vi) Village Ponds/ Tanks	-	-	-	-	-			
		(vii) Community Buildings	-	-	-	4 Nos.	-			
		(viii) Weekly Markets	-	-	-	Laitlyngkot	-			
		(ix) Permanent Markets	-	-	-	Laitlyngkot	-			
		(x) Temples/ Places of worship	-	-	-	Church- 4 no	-			
		(xi) Bun Cultivated Areas	484	-	-	-	484			
		Total	1000 Ha	-	-	320 Ha	980	-	-	20

2.11 Land use and land cover : As per the land use land cover map generated by NESAC, Meghalaya from Satellite Image taken during 2005 – 2006 (LISS – III, Image) the Watershed area has been broadly classified into the following land uses.

a) Built-up Area	=	56 Ha
b) Water bodies-River/Stream-Perennial	=	26 Ha
c) Agricultural land	=	19 Ha
d) Tree clad Area-close	=	320 Ha
e) Tree clad Area-open	=	484 Ha
f) Wastelands scrub	=	374Ha
g) Barren Stony land	=	<u>123 Ha</u>
Total	=	1402 Ha

2.12 Problems of the Area : The primary problems of the area is the improper utilisation of land resources. Unchecked felling of trees and *bun* cultivation being the main type of farming practice has led to degradation of the land. Lack of any conservation measures has also aggravated the situation, in which the *bun* lands with the furrows being made along the slope accelerates the loss of the top soil. Lack of efforts to promote sustainable livelihood activities is also a reason contributing to the poor socio-economic condition of the people. A holistic approach has been formulated with the active participation of the community through PRA exercises so as to bring about an all round development of the area both in terms of natural resources management and conservation as well as improved economic well being of the people.

CHAPTER III

PROJECT PLANNING & INSTITUTION BUILDING

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3.1 Scientific Planning

- i) Base Line Survey: To establish a benchmark for assessing the impact of any intervention (pre-project & post project) a baseline survey is essential. The baseline survey included household census & socio-economic survey by using structured and semi –structured questionnaires, bio-physical survey to identify and assess the status of natural resources in the project area.
- ii) Participatory Rural Appraisal: To further obtain information on the project area, the people, resources, various PRA techniques like resource mapping, social mapping, seasonal calendars, matrix ranking, 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 State Level Data Cell using the inputs provided by the North Eastern Space Application Centre (NESAC) using the Meghalya Natural Resource Information System. The activities were located on the field by using GPS and accordingly transferred to the maps on GIS platform.

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

1	2	2
Sl.No.	Scientific criteria/ inputs used	No. of projects in which scientific criteria were used
A.	Planning	
	Cluster approach	3
	Whether technical back-stopping for the project has been arranged? If yes, mention the name of the Institute.	Yes, State Level Data Cell & NESAC, Nongsder
	Baseline survey	Yes
	Hydro-geological survey	No
	Contour mapping	No
	Participatory Net Planning (PNP)	Yes
	Remote sensing data-especially soil/ crop/ run-off cover	Yes
	Ridge to Valley treatment	Yes
	Online IT connectivity between	
	(1) Project and DRDA cell/ZP	Yes
	(2) DRDA and SLNA	Yes
	(3) SLNA and DoLR	Yes
	Availability of GIS layers	
	1. Cadastral map	No
	2. Village boundaries	No
	3. Drainage	Yes
	4. Soil (Soil nutrient status)	Yes
	5. Land use	Yes
	6. Ground water status	No
	7. Watershed boundaries	Yes
	8. Activity	Yes
	Crop simulation models [#]	No
	Integrated coupled analyzer/ near infrared visible spectroscopy/ medium spectroscopy for high speed soil nutrient analysis	No
	Normalized difference vegetation index (NDVI)#	Yes
	Weather Stations	No

1	2	2
B.	Inputs	
	1. Bio-pesticides	No
	2. Organic manures	Yes
	3. Vermi-compost	No
	4. Bio-fertilizer	Yes
	5. Water saving devices	Yes
	6. Mechanized tools/ implements	No
	7. Bio-fencing	Yes
	8. Nutrient budgeting	Yes
	9. Automatic water level recorders & sediment samplers	Yes
	Any other (please specify)	-

3.2 Project Implementing Agency:

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

1	2	3	
Names of Districts	Names of projects	Details of PIA	
East Khasi Hills	East Khasi Hills – IWMP X	(i) Type of organization	Government
		(ii) Name of organization	Soil & Water Conservation (T) Division, Shillong
		(iii) Designation & Address	Divisional Soil & Water Conservation Officer, Polo, Shillong
		(iv) Telephone	0364 – 2591085
		(v) Fax	Do
		(vi) E-mail	shgt.001@ yahoo.com

3.3 Institution Building

i) Watershed Committee (WC)

The Watershed Committee of the Umladew-Wah Lyngdoh, IWMP X was constituted with the active involvement of the villagers with strong support of the Traditional Institutions (Village Durbar/Council). The Umladew-Wah Lyngdoh Watershed Committee has been registered under the Society Registration Act 1860.

Table 3.2: Details of Watershed Committees (WC):

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Names of the Districts	Names of projects	Names of WCs	Date of Registration as a Society (dd/mm/yyyy)	Designation	M/F	SC	ST	SF	MF	LF	Land-less	UG	SHG	GP	Any other	Educational qualification	Function/s assigned#
East Khasi Hills District	East Khasi Hills District – IWMP – X	Umladew -Wah Lyngdoh	02/03/2010	President	M	-	ST							1		Cl – X	A to I
				Secretary	M	-	ST								1	MSc.	A to I
				Member	10 M	-	ST				1	8		1		Cl – VI	Do
				Member	4 F	-	ST					4				to M.A	Do
				Member													

- A. PNP and PRA
- C. Maintenance of Accounts
- E. Supervision of construction activities
- G. Verification & Measurement
- I. Social Audit

- B. Planning
- D. Signing of cheques and making payments
- F. Cost Estimation
- H. Record of labour employed
- J. Any other (please specify).

ii) Self Help Group

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

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

1	2	3				4				5			6		
Names of the Districts	Names of projects	Total no. of registered SHGs				No. of members				No. of SC/ST in each category			No. of BPL in each category		
		With only Men	With only Women	With both	Total	Categories	M	F	Total	M	F	Total	M	F	Total
East Khasi Hills	EKH. IWMP X	-	-	-	-	(i) Landless									
						(ii) SF									
						(iii) MF									
						(iv) LF									

iii) User Group

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

Table 3.4: User Group Details

1	2	3				4				5			6		
Names of Districts	Names of Projects	Total no. of Ugs				No. of members				No. of SC/ST in each category			No. of BPL in each category		
		Men	Women	Both	Total	Categories	M	F	Total	M	F	Total	M	F	Total
						(i) Landless									
						(ii) SF									
						(iii) MF									
						(iv) LF									
Total		Nil	Nil	Nil	Nil				Nil			Nil			Nil

CHAPTER IV

PROJECT ACTIVITIES

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4.1 Preparatory Phase:

i) Entry Point Activities (EPA)

(Financial – Rs. in lakh)

1	2	3	4	5	6	7	8	9	10	11
Sl. No.	State	District	Names of Project	Amount earmarked for EPA	Entry Point Activities planned	Estimated cost	Expenditure incurred	Balance	Expected outcome	Actual outcome
1	Meghalaya	East Khasi Hills	East Khasi Hills – IWMP X	6.0 Lakhs	Construction of Washing Platform (4 Nos) Construction of Spring Tapped Chamber (4 Nos)	4.00 2.00	6.0	-	Availability of Drinking Water near to village	Availability of Drinking Water near to village

ii) Other activities of Preparatory Phase:

1	2	3	4	5	6	7	8	9	10	11	12	13
District	Name of Projects	Initiation of village level institution	Capacity building	IEC activities	Baseline survey	Hydro - geological survey	Identifying technical support agencies	Resource agreements	Preparation of DPR	Evaluation of DPR	Any other (please specify)	Cost incurred (Rs. In lakh)
East Khasi Hills	East Khasi Hills – IWMP X	1 no. W/C 5 nos. Sub Watershed Committee at each benefiting village	6 nos.	4 nos.	Participatory Rural Appraisals, Field Survey with GPS,	N.A	Done	Done	Done	Done		3.0

4.2 Watershed Works Phase:

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

1	2	3	4	5	6			7											
S l. N o	Nam e of State s	Name of Distri cts	Name of Projects	Type of structures	Pre Project			Proposed Project											
					N o	Area irrigat ed (ha)	Stora ge capac ity	Augmentation/ repair of existing structures				Construction of new structures				Total target			
								N o	Area to be treate d (ha)	Storag e capaci ty	Estimat ed cost (in lakhs)	No	Area to be treated (ha)	Storage capacit y (per unit)	Estimate d cost (in lakhs)	No	Area to be treated (ha)	Storag e capaci ty (m³)	Estima ted cost
1	Meg hala ya	East Khas i Hills	East Khasi Hills – IWMP X	(i) Tank	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(ii) Conservation Pond				-	-	-	-	-	-	-	14 nos.	-	16800 m³	21.238	14 nos.	-	16800 m³	21.238 *	
(iii) Lake				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(iv) Check Dam				-	-	-	-	-	-	-	1 nos	2 Ha	80m³	1.36	1 nos	2 Ha	80m³	1.36	
(v) Percolation Tank				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(vi) Channel				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(vii) Any others (Spring Chambers)											6Nos	-	24 m³	3.12	6 Nos	-	24 m³	3.12	
Total										-	-	-	-	21 nos	2 Ha	16904 m³	25.718	21 nos	2 Ha

8											9	10
Achievement due to project												
Augmentation/ repair of existing structures				Construction of new structures				Total achievement			Change in storage capacity (col 8-6)	Change in irrigated area (ha) Col. (8-6)
No	Area irrigated (ha)	Storage capacity	Expenditure incurred (in lakhs)	No	Area irrigated (ha)	Storage capacity	Expenditure incurred (in lakhs)	Area irrigated (ha)	Storage capacity	Estimated incurred		
-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	14 nos.	-	16800 m ³	21.238*	-	16800 m ³	21.238*	16800 m ³	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	1 nos	2 Ha	80m ³	1.36	2 Ha	80m ³	1.36	80m ³	2 Ha
				6Nos	-	24 m ³	3.12	-	24 m ³	3.12	24 m ³	-
				21 Nos	2 Ha	16904 m³	25.718	2 Ha	16904 m³	25.718	16904 m³	2Ha

* An amount of Rs. 12.838 lakh for labour component will be met by convergence with NREGS

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

1	2	3	4	5	6		7							8							9					
S. No.	Names of States	Names of Districts	Names of projects	Type of structures	Pre-project		Proposed target							Achievement due to project							Change in irrigated area (Col. 8-6) (ha)					
					No.	Area irrigated (ha)	Augmentation/ repair of existing recharging structures			Construction of new recharging structures			Total target		Augmentation/ repair of existing recharging structures			Construction of new recharging structures				Total achievement				
							No.	Area to be irrigated (ha)	Estimated cost	No.	Area to be irrigated (ha)	Estimated cost	Area to be irrigated (ha)	Estimated cost	No.	Area irrigated (ha)	Expenditure incurred	No.	Area irrigated (ha)	Expenditure incurred		Area irrigated (ha)	Expenditure incurred			
				(i)Open wells		Nil		Nil			Nil			Nil		Nil		Nil								
				(ii)Bore wells																						
				(iii)Any others (Pl. specify)																						
				Total for the project																						

4.2.3 Activities executed by User Groups in the Project Areas.

	2	3						
Names of Districts	Names of Projects	Major activities of the UGs –Targets						
		Structure/ activity proposed				No. of UGs involved	Estimate d Cost	Amount of WDF to be collected (Rs.)
		Sl. No.	Type	No.#	Treatment (ha)			
East Khasi Hills	East Khasi Hills – IWMP X	1.	Conservation pond	2 unit	-	2 nos.	3.034	0.1517

4.2.4 Activities executed by User Groups in the Project Areas:

4									
Major activities of the UGs – Achievements									
Structure/ activity				No. of UGs involved	Expenditure incurred (Rs.)	No. of mandays			Amount of WDF collected (Rs.)
Sl. No.	Type	No.#	Treated Area (ha.)			SC	ST	F	
1.	Conservation pond	2 Nos	-	2 Nos	3.034	-	1800	-	0.1517

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

1	2	3		
Names of the Districts	Names of projects	Major activities of the SHGs		
		Name of activity	No. of SHGs involved	Average annual income from activity per SHG
East Khasi Hills	East Khasi Hills – IWMP X	1. Poultry/Piggery Farm	45 nos.	60,000
		2. Pisciculture	10 nos.	40,000
		3. Black Smithy	12 nos.	30,000

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

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

4.2.7 Other activities of watershed works phase:

1	2	3		4		5		6		7		8		9		10		11		12		13
District	Names of projects	Ridge area treatment		Drainage line treatment		Nursery raising		Land development		Crop demonstrations		Pasture development		Veterinary services		Fishery development		Non-conventional energy		Income Generating Activities (Tailoring/ Carpentry etc)		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)	
EKH	IWMP -X	1000 Ha	62.12	21 nos	12.88	-	-	-	-	-	-	-	-	185	24.7	10	3.0	-	-	63	6.8	109.5

4.2.8 Details of engineering structures in watershed works:

1	2	3	4			5			6	7				8								
District	Project	Name of structures	Type of treatment			Type of land			Executing agency	Target				Achievement								
			(i) Ridge area (R)	(ii) Drainage line (D)	(iii) Land Dev. (L)	(i) Private	(ii) Community	(iii) Others (pl. specify)	(i) UG (ii)SHG (iii) Others (pl. specify)	No. of units (No./cum./rmt)	Estimated cost (Rs. in lakh)				Expected month & year of completion (mm/yyyy)	No. of units (No./cu.m./rmt)	Expenditure incurred (Rs. in lakh)				Status of completion	Actual month & year of completion (mm/yyyy)
		M									W	O	T	M			W	O	T			
		Bench terracing	R			Private			Beneficiary	50 Ha					3 yrs							
		Field bunds	R			Private			Beneficiary	7660 Rm					3 yrs							
		Conservation pond	R			Private	Community		Beneficiary & SHG	14 Nos					3 yrs							
		CC Check Dam	R			Private			Beneficiary	1 Nos					3 yrs							
		Spring Chambers	R				Community		Community	6 Nos					3 yrs							

Contd.

4.2.9 Details of engineering structures in watershed works.

9																	
Outcomes																	
Reduction in run off (cu.m)	Area treated# (ha)	Water level (m)		Production (quintal)		Income (Rs.)		Mandays generated					No. of beneficiaries				
		Pre-project	Post project	Pre-project	Post project	Pre-project	Post project	SC	ST	Others (Men)	Women	Total	SC	ST	Others	Women	Total
Na	50 Ha	Na	-	Na	-	Na	-	-	5000	3000	2000	5000	-	32	-	-	32

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

1	2	3	4			5			6	7				8			
Dist rict	Pro ject	Name of structure/ work	Type of treatment			Type of land			Executing agency	Target				Achievement			
			(i) Ridge area (R)	(ii) Draina ge line (D)	(iii) Land dev. (L)	(i) Priv ate	(ii) Com muni ty	(iii) Other s (pl. speci fy)	(i) UG (ii)SHG (iii) Others (pl. specify)	Area (ha)	No. of plants	Estimat ed cost (Rs. in lakh)	Expecte d month & year of comple- tion (mm/ yyyy)	Area (ha)	No. of plant s	Expendi- ture incurred (Rs. in lakh)	Actual month & year of comple-tion (mm/ yyyy)
		Afforestation															
		Regeneration				✓	✓			126 ha		12.726	3 yrs	-	-	-	-
		Agro-forestry				✓				220 Ha		22.22 [#]	3 yrs	-	-	-	-
		Fuel wood															
		Fodder															
		Agro- Horticulture				✓				120 ha		10.32	3 yrs	-	-	-	-
		Pasture dev.															
		Nursery raising															
		Others (Improvement of Degraded Forest)				✓	✓			484 ha		17.424*	3 yrs	-	-	-	-

* An amount of Rs. 4.84 lakh for 3rd Year Maintenance will be met by convergence with NREGS

[#] An amount of Rs. 4.40 lakh for 3rd Year Maintenance will be met by convergence with NREGS

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

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

4.2.12 Details of allied / other activities:

1	2	3	4			5	6		7	
District	Project	Name of activity	Type of land			Executing agency (i) UG (ii)SHG (iii) Others (pl. specify)	Target		Achievement	
			(i) Private	(ii) Community	(iii) Others (landless)		Estimate d cost (Rs. in lakh)	Expected month & year of completion (mm/yyyy)	Expendi- ture incurred (Rs. in lakh)	Actual month & year of completion (mm/yyyy)
East Khasi Hills	Umlade w-Wah Lyngdoh IWMP X	Poultry/Piggery	-	-	140 units	SHG's / Individuals	11.20	3 yrs.		
		Carpentry/ Black Smithy			45 units	SHG's / Individual	5.25	3 yrs.		
		Promotion of Local Medicinal Practioner			6 units	Individuals	0.75	3 yrs.		
		Tailoring			10 units	Individuals	0.8	3 yrs.		
		Piggery/Poultry Farming			45 units	SHG's	13.50	3 yrs.		
		Pisci Culture			10 units	Individuals/ SHG's	3.0	3 yrs.		

(Contd.)

* 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 coulmn no. 7, agency-wise totals, from column no. 8, total estimated cost, from column no. 9, total expenditure incurred, structure-wise no. of completed works, from column no. 10, item-wise totals, for the entire country may be indicated at the end of the table

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

4.2.13 Details of allied / other activities:

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

4.3 Consolidation and withdrawal phase

Details of activities in the CPRs in the project areas:

1	2	3	4	5	6				7						
Names of the Districts	Names of projects	Name(s) of the villages	CPR particulars	Activity proposed	Target				Achievement						
					Target area under the activity (ha)	Estimated expenditure (Rs.)	Expected no. of beneficiaries	Estimated contribution to WDF (Rs.)	Area treated under the activity (ha)	Expenditure incurred (Rs.)	Actual no. of beneficiaries	No. of mandays			WDF collected (Rs.)
												SC	ST	F	
		Madan Football	Drinking Water	Spring Chambers	-	1.2	Community								
		Madan Lyngdoh	Drinking Water	Spring Chambers	-	0.50	Community								
		Jalynteng	Drinking Water	Spring Chambers	-	0.50	Community								
		Wahtyngngai	Drinking Water	Spring Chambers	-	0.50	Community								
		Mawkynring	Drinking Water	Spring Chambers	-	0.50	Community								

CHAPTER V
PROJECT PHASING & BUDGETING

CHAPTER V

PROJECT PHASING & BUDGETING

ACTION PLAN OF UMLADEW-WAH LYNGDOH WATERSHED UNDER IWMP – X, TERRITORIAL DIVISION : SHILLONG

Name of District: East Khasi Hills

No. of villages – 5 nos.

Name of C&RD Block: Laitkroh Khatarshnong.

Project Area – 1000 Ha.

Sl. No	Activities	I st Year		II nd Year		III rd Year		IV th Year		V th Year		Total	
		Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
1	2	3	4	5	6	7	8	9	10	11	12	13	14
I	ADMINISTRATIVE COST												
i.	Honorarium of WDT Members @ Rs. 5000/ month – 2 nos.	-	-	12 months	1.20	12 months	1.20	12 months	1.20	-	-	3 Years	3.600
ii.	Hon tm of Watershed Volunteers @ Rs. 2500/- month – 2 nos.	-	-	12 months	0.60	12 months	0.60	12 months	0.60	-	-	3 Years	1.800
iii.	Hon tm WCO's @ Rs. 1000/ month.	-	-	12 months	0.12	12 months	0.12	12 months	0.12	-	-	3 Years	0.360
iv.	Hon tm WCM @ Rs. 100/members/ month for 16 nos.	-	-	12 months	0.19	12 months	0.19	12 months	0.19	-	-	3 Years	0.576
v	Hon tm Chartered Accountant	-	-	-	0.15	-	0.15	-	0.15	-	-	-	0.450
vi	TA/DA of Field Asstt	-	-	6 months	0.30	12 months	0.60	6 months	0.60	-	-	2 Years	1.500
vii	Hiring charges of office building @ 1000	-	-	12 months	0.12	12 months	0.12	12 months	0.12	-	-	3 Years	0.360
viii	Hiring charges of vehicle	-	-	2 months	0.16	12 months	0.96	6 months	0.48	-	-	1.6 Years	1.600
ix.	Office expenses, P.O.L Stationeries, printing of SHG's books, pamphlets, tea, snacks etc, cost of camera, computer etc.	-	-	-	0.16	-	3.56	-	1.04	-	-	-	4.754
	Total of I:	0%	0.00	2%	3.00	5%	7.50	3%	4.50	0%	0.00	10%	15.000
II	MONITORING (Done)	0.0%	0.00	0.20%	0.30	0.50%	0.75	0.30%	0.45	0.0%	0.00	1%	1.500
III	EVALUATION (Done)	0.0%	0.00	0.3%	0.45	0.5%	0.75	0.2%	0.30	0.0%	0.00	1%	1.500

IV	PREPARATORY PHASE :												
A.	Entry Point Activities:			-	-	-	-	-	-	-	-		
i.	Construction of Washing Platform	5 Units	4.00	-	-	-	-	-	-	-	-	5 Units	4.000
ii.	Construction of Spring Tapped Chamber for drinking water	5 Units	2.00	-	-	-	-	-	-	-	-	5 Units	2.000
	Sub Total of A:	4%	6.00	0%	0.00	0%	0.00	0%	0.00	0%	0.00	4%	6.000
B.	Institution & Capacity Building												
i.	Awareness Campaign & Capacity building	6 nos	0.90			0	0.00			0	0.00	6 no	0.900
ii.	Exposure visits – off. Campus			1 Nos.	0.25	0	0.00	1 no.	0.50	0	0.00	2 no	0.75
iii.	Capacity building of SHG's/ UG's.			5 nos.	1.30	4 nos.	1.00	3 no.	0.75	0	0.00	12 nos.	3.050
iv.	Capacity building of WC Members.	4 nos.	0.60	4 nos.	1.20	1no.	0.25	1 no.	0.25	0	0.00	10 nos.	2.300
v.	Capacity of WDT/WV			1 no.	0.25	1 no.	0.25			0	0.00	5 nos.	0.50
	Sub Total of B:	1%	1.50	2%	3.00	1%	1.50	1%	1.50	0%	0.00	5%	7.500
C.	Detailed Project Report:											1%	1.500
i.	Cost of Resources Inventories works	-	0.25	-	-	-	-	-	-	-	-	0	0.250
ii.	Cost of PRA Exercises	-	0.50	-	-	-	-	-	-	-	-	0	0.500
iii.	Cost of Land use Survey works	-	0.25	-	-	-	-	-	-	-	-	0	0.250
iv.	Cost of formulating	-	0.50	-	-	-	-	-	-	-	-	0	0.500
	Sub Total of C:	1%	1.50	-	-	-	-	-	-	-	-	1%	1.500
	Total of IV:	6%	9.00	2%	3.00	1%	1.50	1%	1.50		0.00	10%	15.000

V	WATERSHED WORKS PHASE :				-	-	-	-	-	-	-	-	-
A.	Watershed Development Works												
1	Arable Land Treatment:												
i.	Bench Terracing @ Rs20,000/Ha (Rs.9680 from IWMP and balance amount of `10320 by convergence with NREGS) for 50 ha	-	-	2	0.1936	48	4.6464	-	-	-	-	50Ha	4.840
iii.	Agro-Horticulture Devt. @ Rs. 8600/ ha	-	-	-	-	120	7.0800	120	3.2400	-	-	120Ha	10.320
iv	Peripheral Bund @ Rs. 50/Rm			292.8	0.1464	2615.2	1.3076	4752	2.3760	-	-	7660Rm	3.830
2	Non- Arable Land Treatment:												
i.	Agro-Forestry Devt. works @ Rs.10,100/ ha (Rs.8100 from IWMP and balance amount of Rs.2000 by convergence with NREGS for 4 th year weeding) for 220 ha	-	-	220	3.7400	220	12.10	220	1.9800	-	-	220Ha	17.820
ii	Improvement of existing Degraded Forest @ Rs. 3600/ ha (Rs.2600 from IWMP and balance amount of Rs. 1000 by convergence with NREGS) for 484 ha	-	-	484	3.3880	484	9.1960	0	0.0000	-	-	484Ha	12.584
iii	Afforestation @ Rs. 10100/Ha			126	2.1420	126	6.9300	126	3.6540	-	-	126Ha	12.726
3	Drainage Line Treatment:												
	CC Irrigation Dam @ `136000	-	-	-	-	1	1.3600				-	1 Nos	1.360
i.	Water Harvesting Structures @ 1,51,700 (Rs.60000 from IWMP and balance amount of `91700 by convergence with NREGS) for 14 Nos.	-	-	1	0.6000	13	7.8000	-	-	-	-	14Nos	8.400
ii.	Spring Tapped Chamber for Drinking Water @ Rs. 52,000/unit	-	-	2	1.0400	4	2.0800	-	-	-	-	6Nos	3.120
	Sub Total of A :	-	-	7.5%	11.250	35.0%	52.500	7.5%	11.250	-	-	50.0%	75.000

B.	Livelihood Activities for landless persons:												
i	Poultry / Piggery @ Rs. 8000/unit	-	-	10	0.80	50	4.00	80	6.40	-	-	140 Units	11.200
ii	Carpentry/Black Smithy@ Rs. 5000/unit	-	-	6	0.30	10	0.50	29	1.45			45 Units	2.250
iii	Promotion of Indigenous Medicinal Practitioner @ Rs.12500/unit	-	-	-	-	-	-	6	0.75	-	-	6 Units	0.750
iv	Tailoring @ Rs. 8,000/Unit	-	-	5	0.40	0	0.00	5	0.40	0	0.00	10 Units	0.800
	Sub Total of B:	0%	0.00	1%	1.50	3%	4.50	6%	9.00	0%	0.00	10.0%	15.000
C.	Production System and Micro Enterprises (SHG's):												
i.	Piggery/Poultry Farm @Rs. 30000/unit	0	0.00	4	1.20	6	1.80	35	10.50	0	0.00	45	13.500
ii	Pisciculture @ Rs. 30000/unit	0	0.00	1	0.30	9	2.70	0	0.00	0	0.00	10	3.000
iii	Carpentry / Blacksmithy @ Rs. 25000	0	0.00	0	0.00	12	3.00	0	0.00	0	0.00	12	3.000
	Sub Total of C :	0%	0.00	1.00%	1.50	5.00%	7.50	7.00%	10.50	0.00%	0.00	13%	19.500
	Total of V:	0	0.00		14.25		64.50		30.75		0.00		109.500
VI	Consolidation Phase:												
i.	Repairs, Maintenance of CPR's.	-	-	-	-	-	-	-	-	-	4.00	-	4.000
ii.	Improving the sustainability of various Interventions	-	-	-	-	-	-	-	-	-	2.00	-	2.000
iii.	Documentation of successful experiences & Preparation of Completion Report	-	-	-	-	-	-	-	-	-	1.50	-	1.500
	Sub Total of VI:	-	-	-	-	-	-	-	-	5%	7.50	-	7.500
	Grand Total of I,II,III,IV,V,VI	6%	9.00	14%	21.00	50%	75.00	25%	37.50	5%	7.50	100%	150.000

**VILLAGE WISE ACTION PLAN OF UMLADEW-WAH LYNGDOH WATERSHED UNDER IWMP – X,
TERRITORIAL DIVISION : SHILLONG.**

Name of District: East Khasi Hills

Name of C&RD Block: Laitkroh Khatarshnong.

No. of villages – 5 nos.

Project Area – 1000 Ha.

Sl. No	Activities	Madan Foot Ball (15.73%)		Madan Lyngdoh (23.79%)		Jalynteng (21.40%)		Wah Tyngngai (21.52%)		Mawkynring (17.57%)		Total	
		Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
1	2	3	4	5	6	7	8	9	10	11	12	15	16
A	WATERSHED DEVELOPMENT WORKS												
1	Arable Land Treatment:												
i.	Bench Terracing @ Rs20,000/Ha (Rs.9680 from IWMP and balance amount of `10320 by convergence with NREGS) for 50 ha	7	0.6776	12	1.1616	11	1.0648	11	1.0648	9.000	0.8712	50.000	4.8400
iii.	Agro-Horticulture Devt. @ Rs. 8600/ ha	18.000	1.5480	30.000	2.5800	25.000	2.1500	25.000	2.1500	22.000	1.8920	120.000	10.3200
iii	Peripheral Bund @ Rs. 50/Rm	1149.000	0.5745	1915.000	0.9575	1608.600	0.8043	1608.600	0.8043	1378.800	0.6894	7660.000	3.8300
	Sub Total 1		2.8001		4.6991		4.0191		4.0191		3.4526		18.9900

2	Non- Arable Land Treatment:												
i.	Agro-Forestry Devt. works @ Rs.10,100/ ha (Rs.8100 from IWMP and balance amount of Rs.2000 by convergence with NREGS for 4 th year weeding) for 220 ha	33.000	2.6730	55.000	4.4550	46.000	3.7260	46.000	3.7260	40.000	3.2400	220.000	17.8200
ii	Improvement of existing Degraded Forest @ Rs. 3600/ ha (Rs.2600 from IWMP and balance amount of Rs. 1000 by convergence with NREGS) for 484 ha	72.000	1.8720	100.000	2.6000	110.000	2.8600	120.000	3.1200	82.000	2.1320	484.000	12.5840
iv	Afforestation @ Rs. 10100/Ha	18.900	1.9089	31.500	3.1815	26.460	2.6725	26.460	2.6725	22.680	2.2907	126.000	12.7260
	Sub Total 2		6.4539		10.2365		9.2585		9.5185		7.6627		43.1300
3	Drainage Line Treatment:												
	CC Irrigation Dam @ `136000	1	1.36									1.000	1.3600
i.	Water Harvesting Structures @ 1,51,700 (`60000 from IWMP and balance amount of `91700 by convergence with NREGS) for 14 Nos.	2	1.20	3	1.80	3	1.80	4	2.40	2	1.20	14	8.40
ii.	Spring Tapped Chamber for Drinking Water @ Rs. 52,000/unit	1	0.52	1	0.52	1	0.52	1	0.52	2	1.04	6.000	3.1200
	Sub Total of 3		3.08		2.32		2.32		2.92		2.24		12.88
	TOTAL OF A		12.3340		17.2556		15.5976		16.4576		13.3553		75.0000

B.	Livelihood Activities for landless persons:												
i	Poultry / Piggery @ Rs. 8000/unit	21.000	1.6800	35.000	2.8000	30.000	2.4000	29.000	2.3200	25.000	2.0000	140.000	11.2000
ii	Carpentry/Black Smithy	7.000	0.3500	11.000	0.5500	10.000	0.5000	9.000	0.4500	8.000	0.4000	45.000	2.2500
iii	Promotion of Indigenous Medicinal Practitioner @ Rs.10000/unit	1.000	0.1250	2.000	0.2500	1.000	0.1250	1.000	0.1250	1.000	0.1250	6.000	0.7500
iv	Tailoring @ 8,000/Unit	1.000	0.0800	3.000	0.2400	2.000	0.1600	2.000	0.1600	2.000	0.1600	10.000	0.8000
	Total of B:		2.2350		3.8400		3.1850		3.0550		2.6850		15.0000
C.	Production System and Micro Enterprises (SHG's):												
i.	Piggery/Poultry Farm @Rs. 30000/unit	7.000	2.1000	11.000	3.3000	10.000	3.0000	9.000	2.7000	8.000	2.4000	45.000	13.5000
ii	Pisciculture @ Rs. 30000/unit	1.000	0.3000	3.000	0.9000	3.000	0.9000	2.000	0.6000	1.000	0.3000	10.000	3.0000
iii	Carpentry / Blacksmithy @ Rs. 25000	1.000	0.2500	3.000	0.7500	3.000	0.7500	3.000	0.7500	2.000	0.5000	12.000	3.0000
	Sub Total of C :		2.6500		4.9500		4.6500		4.0500		3.2000		19.5000
	GRAND TOTAL (A+B+C)		17.2190		26.0456		23.4326		23.5626		19.2403		109.5000

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

1	2	3	4	5	6		7	8	9	10				11				
S L N o	Name of State	Name of Districts	Names of Projects	Year of sanction	Project duration (dd/mm/yyyy)		Area of the projects	Project cost (Rs. In lakh)	Names of Micro watersheds & Code nos. (as per DoLR's unique codification)	Area (ha) of the projects				Area details (ha) (falling within the projects)				
					From	To												
										Cultivated rainfed area	Cultivated irrigated area	Uncultivated wasteland		Pvt. Agri. Land	Forest land	Community land	Others (pl. specify)	Total area (ha)
												a) Temporary fallow	b) Permanent					
1	Meghalaya	East Khasi Hills	East Khasi Hills – IWMP X	2010-11	2010-11	2014-15	1000 Ha	150 Lakhs	Umladew – Wahlyngdoh (3C1B5a2h & 3C1C2a4c)	503 Ha	Nil	160	337	503	320	497	82	1402 Ha

Fund provision for the IWMP projects from all sources:

1	2	3		4										5
Distri ct	Name of Project s	IWMP Fund		Funds from other sources in addition to IWMP funds										Total
				Convergence funds		PPP		Community		Institutional finance		Others (Pl. specify)		
		Central Share	State Share	Name of Scheme	Amount (Lakhs)	Name of private sector	Financial contri- bution	Name	Financial contri- bution	Name	Finan cial contri- bution	Name	Financi al contri- bution	
East Khasi Hills	East Khasi Hills – IWMP X	135 lakhs	15 lakhs	NREGS	27.238	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	177.238

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

1	2	3	4	5				6				
Sl. No.	Names of States	Name of Districts	Names of Projects	Distt. Agency's Project Account details				Watershed Committee (WC) account details:				
				Name of the Bank and Branch where project account has been opened	Account Number (to be obtained confidentially)	Account type (Savings/ Current/ Others)	Name & Designation of authorized persons who operate the account.	Name of Watershed Committee	Name of the Bank and Branch where project account has been opened	Account number (to be obtained confidentially)	Account type (Savings/ current others)	Name & Designation of authorized persons who operate the account.
1	Meghalaya	East Khasi Hills	East Khasi Hills – IWMP X	State Bank of India Polo Branch	31643141430	Saving	Shri A.S. Kharlukhi. DS&WCO	Umladew-Wah Lyngdoh, Watershed Committee	Meghalaya Rural Bank Laitlyngkot	C + I-160	Saving	Chairman W.C, Secretary W.C, Project Leader / WDT

Details of Convergence of IWMP with other Schemes:

	1	2	3	4	5	6	7
Sl. No.	District	Names of projects	Names of Departments with Schemes converging with IWMP	Fund made available to IWMP due to convergence (Rs. in lakh)	Name of activity/task/structure undertaken with converged funds	Reference no. of activity/ task/ structure in DPR [@]	Level at which decision for convergence was taken ^{\$}
					(a) Structures (b) livelihoods (c) Any other (pl. specify) [#]		
1	East Khasi Hills	East Khasi Hills – IWMP X	* Community Rural Development Department NREGS	27.238	Water Harvesting and Plantation works	-	Block Level & District Level

TO WHOM IT MAY CONCERN

This is to certify that a decision has been taken in principle to converge the IWMP projects proposed by the Divisional Officer, Soil & Water Conservation, Shillong (T) Division, Shillong with MGNREGS.




Deputy Commissioner
&
District Programme Co-Ordinator(MGNREGS)
East Khasi Hills District
Shillong

Public-Private Partnership in the IWMP projects: NIL

1	2	3	4			5		6	7	8	9
District	Name of project	Name of Private Sector Partner Agency	Type of agreement signed			Financial contribution		Partnership Interventions	Expected Outcomes	Actual Outcomes	Comments
			a)MoU	b)Contract	c) Any other (pl. specify)	IWMP	Private sector				

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

CHAPTER VI

CAPACITY BUILDING

CHAPTER VI CAPACITY BUILDING

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

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

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

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

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

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

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

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

1	2	3	4	5	6		7	
Project Stakeholders	Total no. of persons	No. of persons trained so far	No. of persons to be trained during current financial year	No. of persons trained during current financial year	Sources of funding for training		Funds utilized (Lakhs)	
					a) DoLR	b) Any other (Pl. specify)	a) DoLR	b) Any other (Pl. specify)
SLNA			400 Nos.	-	1.50	-	1.50	-
DRDA/ZP cell			25 Nos.	-				
PIAs			25 Nos.	-				
WDTs			120 Nos.	-				
UGs			20 Nos.	-				
SHGs			30 Nos.	-				
WCs			16 Nos.	-				
GPs			15 Nos.	-				
Community			250 Nos.	-				
Others Pl. specify)								

Table 6.3: Information, Education & Communication (IEC) activities for the year 2010-11 as on 31/03/11 (dd/mm/yyyy)*

	1	2	3	4	5
	Activity	Executing agency	Estimated expenditure (Rs.)	Expenditure incurred (Rs.)	Outcome (may quantity, wherever possible)
1.	Awareness Programmes	S&WC (T) Division	0.60	0.60	
2.	PRA Exercises	S&WC (T) Division	0.30	0.30	
3.	Capacity Building	S&WC (T) Division	0.60	0.60	

CHAPTER VII
EXPECTED OUTCOME

CHAPTER VII EXPECTED OUTCOME

Table 7.1 Employment related outcomes:

Sl No	Name of Village	1										2				
		Wage employment										Self employment				
		No. of mandays					No. of beneficiaries					No. of beneficiaries				
		SC	ST	Others	Women	Total	SC	ST	Others	Women	Total	SC	ST	Others	Women	Total
1.	Madan Football		100 %	7600	7500	15100		100 %	120	94	214		100 %	12	6	18
2.	Madan Lyngdoh		100 %	11100	10800	21900		100 %	173	169	342		100 %	18	15	33
3.	Jalynteng		100 %	10600	9000	19600		100 %	172	148	320		100 %	17	12	29
4.	Wahtyngngai		100 %	10400	10000	20400		100 %	147	138	285		100 %	15	11	26
5.	Mawkynring		100 %	8600	8200	16800		100 %	142	126	267		100 %	12	10	22
						86500					1428					128

Table 7.2 Migration Details:

1	2	3	4	5	6	7	8	9	10	
Names of the Districts	Names of Projects	Name of village	No. of persons migrating	No. of days per year of migration	Major reason(s) for migrating	Distance of destination of migration from the village (km)	Occupation during migration	Income from such occupation (Rs. in lakh)	For reduced migration identify major activities of IWMP responsible	
									(a) Structures	(b) Livelihoods
				N	I	L				

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

Table 7.3 Economic benefits accrued to women:

1		2		3		4
Wages		Training		Livelihoods		Total (Rs. in lakh)
Woman days	Amount (Rs. in lakh)	No. of women participants	Amount (Rs. in lakh)	No. of women beneficiaries	Value of assistance provided (Rs. in lakh)	
45500	45.50	350	0.60	60 nos.	6.0	6.60

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

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

1	2	3	4	5	6	7				8
Names of the Districts	Names of the projects	Names of the villages	Particular of CPR	Nature of right	Period of right	Beneficiary details (no. of families)				User Charges (Rs.)
						SC	ST	Others	Total	
East Khasi Hills District	EKH-IWMP-X	Madan Football	Spring Chambers	Wd	12 months	-	49	-	49	Nil
		Madan Lyngdoh	Spring Chambers	Wd	12 months	-	255	-	255	Nil
		Jalynteng	Spring Chambers	Wd	12 months	-	173	-	173	Nil
		Wahtyngngai	Spring Chambers	Wd	12 months	-	153	-	153	Nil
		Mawkynring	Spring Chambers	Wd	12 months	-	84	-	84	Nil

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

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

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

F	for right to	fishing [culture, harvest and sale]
Fw	for right to	collect firewood for domestic purposes
G	for right to	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
T	for right to	collect timber for construction of house
Wd	for right to	collect/ use water for drinking
Wi	for right to	use water for irrigation
O	for any right other than indicated above	(please specify)

Table 7.5 Water related outcomes:

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

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
East Khasi Hills District	EKH-IWMP X	Open wells	-	-	-	-	-
		Bore wells	-	-	-	-	-
		Others (specify) Springs	poor	Fair	Good	Increased	-

* 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 collected by PIA with the help of concerned technical expert in the same sample of 10 % of selected wells and bore wells in the villages in the watershed project area during pre-project, mid-term and post-project periods.

Table 7.5.2 Status of Drinking water:

1	2	3			4			5
District	Name of the project	Availability of drinking water (no. of months in a year)			Quality of drinking water			Comments
		Pre-project	Post-project	Change in availability	Pre-project	Post-project	Change in quality	
East Khasi Hills District	EKH-IWMP X	Insufficient	Sufficient	10 – 12 months	Moderate	Improved	Improved	-

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

Table 7.5.3 Water Use efficiency:

1	2	3	4			
District	Name of the project	Name of major crop	Water savings in cu.m.			
			through water saving devices ^{\$}	through water conserving agronomic practices [#]	Any other (pl specify)	Total
East Khasi Hills District	EKH-IWMP X	Potato	-		-	-
		Cabbage / Cauliflower				

* From column no. 2, total number of States implementing the programme, from column no. 3, total no. of Districts; from column no. 4, total no. of projects, from column no. 6, practice-wise totals may be mentioned at the end of the table for the entire country.

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

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

Table 7.6: Vegetation/ crop related outcomes:

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

1	2	3	4						5						6					
Names of the Districts	Name of Projects	Name of crops	Pre-project						Mid-term						Post-project					
			Area (ha)		Average Yield (Qtl) per ha.		Total Production (Qtl)		Area (ha)		Average Yield per ha (Qtl)		Total Production (Qtl)		Area (ha)		Average Yield per ha (Qtl)		Total Production (Qtl)	
			Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.
East Khasi Hills District	EKH-IWMP X	Potato	-	120	-	80	-	16000	-	170		80		20000		200		80		24000
		Millet	-	30	-	10	-	400	-	40		10		600		40		10		700
			-																	

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

Irri. – Irrigated Rf – Rainfed

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

3	4	5	6						7						8					
Names of the Districts	Name of Projects	Name of crops	Pre-project						Mid-term						Post-project					
			Area (ha)		Average Yield (Qtl) per ha.		Total Production (Qtl)		Area (ha)		Average Yield per ha (Qtl)		Total Production (Qtl)		Area (ha)		Average Yield per ha (Qtl)		Total Production (Qtl)	
			Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.
East Khasi Hills District	EKH-IWMP X	Potato	-	150	-	80	-	12000		160		80		12800		180		80		14400
		Cauliflower		60	-	14	-	840		70		14		980		90		14		1260
		Cabbage		50	-	18	-	900		60		18		1080		80		18		1440
	Total for the District																			

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

Irri. – Irrigated Rf – Rainfed

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

1	2	3	4	5	6						7						8					
Sl No.	Names of States	Names of the Districts	Name of Projects	Name of crops	Pre-project						Mid-term						Post-project					
					Area (ha)		Average Yield (Qtl) per ha.		Total Production (Qtl)		Area (ha)		Average Yield per ha (Qtl)		Total Production (Qtl)		Area (ha)		Average Yield per ha (Qtl)		Total Production (Qtl)	
					Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.
	Meghalaya	East Khasi Hills District	EKH-IWMP X																			
			Total for the District																			

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

Irri. – Irrigated Rf – Rainfed

Table 7.6.4 Increase/ Decrease in area under fodder:

1	2	3	4			5		
District	Name of project	Duration of Project	Existing area under fodder (ha)			Achievement (ha)		
			Source/Name of report	Year of reference	Area already under fodder	Area under fodder proposed to be covered through IWMP	Area under fodder actually covered through IWMP	Change in area under fodder
East Khasi Hills District	EKH-IWMP X	5 yrs	NA	NA	NA	nil	nil	nil

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

Table 7.6.5 Increase/ Decrease in Forest/vegetation cover:

1	2	3	4			5		
District	Name of project	Duration of Project	Existing area tree cover (ha)			Achievement (ha)		
			Source/Name of report	Year of reference	Area already under forest/vegetative cover	Forest/vegetative cover area proposed to be covered under IWMP	Forest/vegetative cover area actually covered under IWMP	Change in forest/vegetative cover area
East Khasi Hills District	EKH-IWMP X	5 yrs	Meghalaya Natural Resource Information System, NESAC	2006 - 07	320 Ha	830 Ha	Yet to achieve	-

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

Table 7.6.6 Increase/ Decrease in area under horticulture:

1	2	3	4			5		
District	Name of project	Duration of Project	Existing area under horticulture (ha)			Achievement (ha)		
			Source/Name of report	Year of reference	Area already under horticulture	Area under horticulture proposed to be covered through IWMP	Area under horticulture actually covered through IWMP	Change in area under horticulture
East Khasi Hills District	EKH-IWMP X	5 yrs				120 Ha	Yet to achieve	-

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

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

1	2	3	4			5		
District	Name of project	Duration of Project	Existing area under fodder (ha)			Achievement (ha)		
			Source/Name of report	Year of reference	Area already under fuel-wood	Area under fuel-wood proposed to be covered under IWMP	Area under fuel-wood actually covered under IWMP	Change in area under fuel-wood
East Khasi Hills District	EKH-IWMP X	5 yrs				220 Ha	yet to achieve	-

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

Table 7.7 Livelihood related outcomes:

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

1	2	3	4			5			6			7
Names of the Districts	Name of Projects	Type of Animal	Pre-project			Mid-term			Post-project			Remarks
			No.	Yield	Income	No.	Yield	Income	No.	Yield	Income	
		Piggery	600	-	18.0	680	-	20.40	740	-	22.20	
		Poultry	2000	-	4.0	2725	-	5.45	3400	-	6.80	
	Sub-Total		2600	0	22.00	3405	0	25.85	4140	0	29.00	
Total for all Districts												

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

Table 7.7.2 Details of other livelihoods created for landless people:

1	2	3	4	5				6	7					8				
District	Project	Name of activity	Fund required for the activity (Rs.)	Sources of funding (Rs.)				Actual Expenditure incurred on activity (Rs.)	No. of beneficiaries trained					No. of beneficiaries taking up activity				
				Project Fund	Beneficiary	Others (pl. specify)	Total		SC	ST	Others	Women	Total	SC	ST	Others	Women	Total
East Khasi Hills District	EKH - IWM P X	Poultry	10000/-	8000/-	2000/-	-	10000/-	10000/-	-	320	-	130	320	-	320	-	130	320
		Piggery	10000/-	8000/-	2000/-	-	10000/-	8000/-	-	270	-	110	270	-	270	-	110	270
		Black Smithy	6000/-	5000/-	1000/-	-	6000/-	35000/-	-	45	-	-	45	-	45	-	-	45
		Promotion of indigenous medicinal practitioner	15000/-	12500/-	2500/-	-	15000/-	30000/-	-	6	-	-	6	-	6	-	-	6
		Tailoring	10000/-	8000/-	2000/-	-	10000/-	5000/-	-	10	-	10	10	-	10	-	10	10

(Contd.)

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

Table 7.7.3 Details of other livelihoods created for landless people:

9		10	11				12
No. of persons employed indirectly in the activity		Annual increase in income due to activity (Rs.)	Impact of livelihoods programme				Any other information (pl. Specify)
			Migration (No. of beneficiaries)		Development of backward-forward linkages		
Total	Grand Total (8+9)		Pre-project	Post-project	Pre-project	Post-project	
(i) 20	340	15000	-	-	-	25	-
(ii) 25	295	18000	-	-	-	-	-
(iii) 50	95	10,000	-	-	-	-	-
(iv) 6	12	18,000	-	-	-	-	-
(v) 10	20	18,000	-	-	-	-	-

Table 7.7.4 Details of other livelihoods created for farmers:

1	2	3	4	5				6	7				8			
District	Project	Name of activity	Fund required for the activity (Rs.) in lakhs	Sources of funding (Rs.) in Lakhs				Actual Expenditure incurred on activity (Rs.)	No. of farmers trained				No. of farmers taking up activity			
				Project Fund	Benefi-ciary	Others (NREG S)	Total		SF	MF	LF	Total	SF	MF	LF	Total
East Khasi Hills District	EKH-IWMP X	Water Harvesting Structure cum Pisciculture	1.937	0.90	0.12	0.917	1.937	1.937	-	-	-	-	-	-	-	10

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

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

9		10	11				12
No. of persons employed indirectly in the activity		Annual increase in income due to activity (Rs.)	Impact of livelihoods programme				Any other information (pl. Specify)
			Migration (No. of beneficiaries)		Development of backward-forward linkages		
Total	Grand Total (8+9)		Pre-project	Post-project	Pre-project	Post-project	
(i) 10	20	60000	-	-	-	7	-

Table 7.8 Marketing related outcomes:

Backward-Forward linkages *

1	2	3	4	5	6
District	Project	Type of Marketing Facility	Pre-project (no.)	During the project (no.)	Post-project (no.)
East Khasi Hills District	EKH-IWMP X	(A) Backward linkages			
		(i) Seed certification	-	-	-
		(ii) Seed supply system	-	-	-
		(iii) Fertilizer supply system	-	-	-
		(iv) Pesticide supply system	-	-	-
		(v) Credit institutions	-	-	-
		(vi) Water supply	-	-	11
		(vii) Extension services	-	-	-
		(viii) Nurseries	-	-	1 no.
		(ix) Tools/machinery suppliers	-	-	-
		(x) Price Support system	-	-	-
		(xi) Labour	-	3000	5000
		(xii) Any other (please specify)	-	-	-
		(A) Forward linkages		-	-
		(i) Harvesting/threshing machinery	-	-	-
		(ii) Storage (including cold storage)	-		
		(iii) Road network	-	1 no.	1 no.
		(iv) Transport facilities	-	5 nos.	5 nos.
		(v) Markets / Mandis	-	1 no.	1 no.
		(vi) Agro and other Industries	-	-	-
		(vii) Milk and other collection centres	-	-	-
		(viii) Labour	-	86500	1428
		(ix) Any other (please specify)	-	-	-

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

Table 7.9 Abstract of outcomes:

1	2	3	4	5	6	7
Sl. No.	State	Item	Unit	Pre-project Status	Post-project Status	Remarks
		Status of water table		-	-	
		Ground water structures repaired/ rejuvenated		-	-	
		Quality of drinking water		Moderate potable	Improved	
		Availability of drinking water		Insufficient	Sufficient	
		Increase in irrigation potential		-	-	
		Change in cropping/ land use pattern		Mono Cropping	Double Crop	
		Area under agricultural crop				
		i Area under single crop		-		
		ii Area under double crop		240 ha	390 ha	
		iii Area under multiple crop		-	-	
		Net increase in crop production area				
		Increase in area under vegetation		320 Ha	610 Ha	
		Increase in area under horticulture		-	120 ha	
		Increase in area under fuel & fodder		-	220 ha	
		Increase in milk production		-	-	
		No. of SHGs		-	10 nos.	
		Increase in no. of livelihoods		-	6 nos.	
		Increase in income		-	15,000	
		Migration		-	-	
		No. of school going children		500	500	
		SHG Federations formed		-	-	
		Credit linkage with banks		-	10 nos.	
		Resource use agreements		-	5 nos.	
		WDF collection & management		-	1 no.	
		Summary of lessons learnt	May be attached as a separate file			

Table 7.10 Cost effectiveness of structures/ activities*

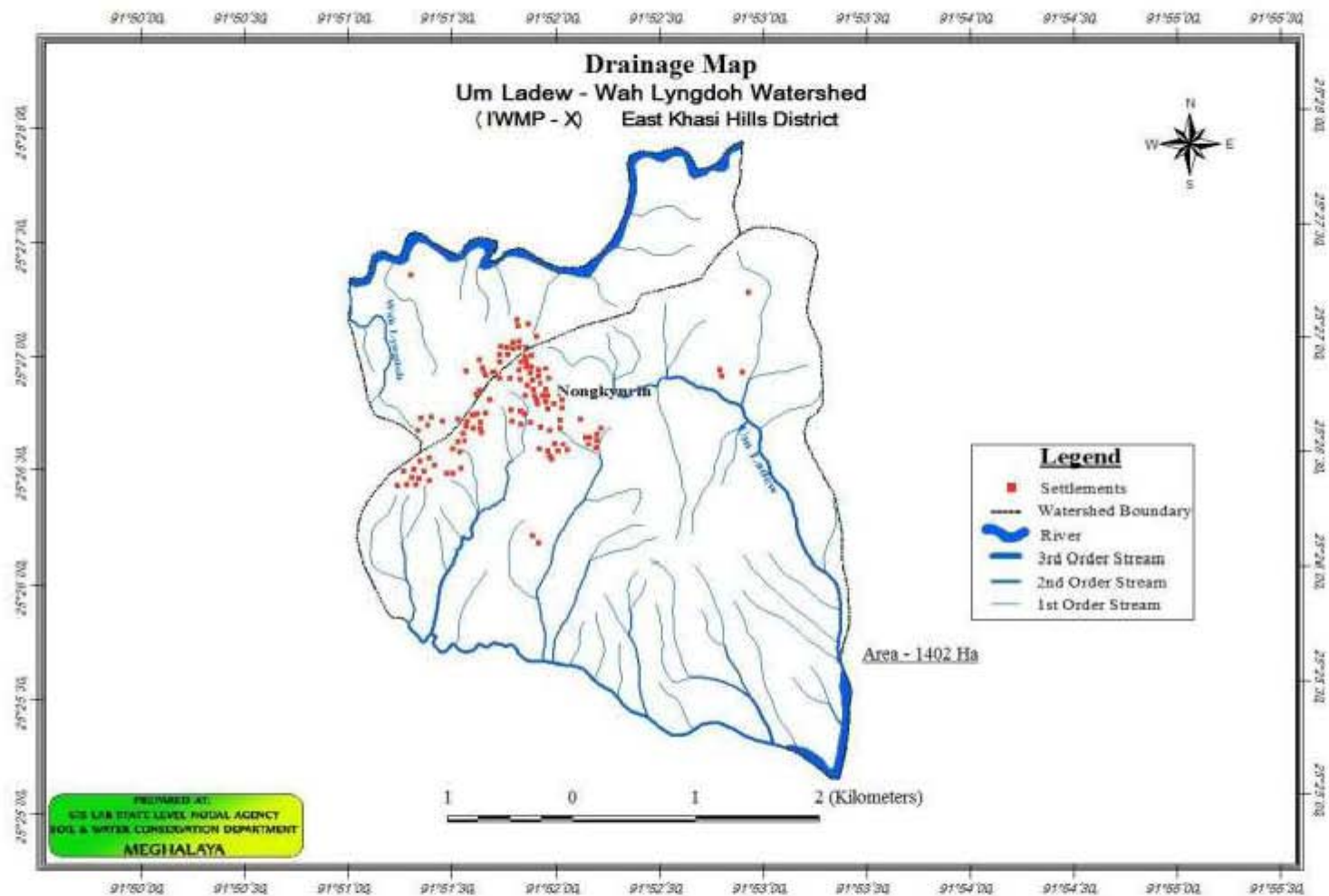
1	2	3	4	5	6	7	8	9	10
District	Name of project	Name of WC	Name of structure/ activity	Estimated cost (Rs.)	Expected quantifiable benefits (Rs.)	Expenditure incurred (Rs.)	Actual quantifiable benefit (Rs.)	Benefit: Cost ratio [#]	IRR
East Khasi Hills District	EKH-IWMP X	Umladew – Wahlyndoh Watershed Committee	As per Treatment Plan	117.00 lakhs	163.8 lakhs	117.0 lakhs	-	1.33	-

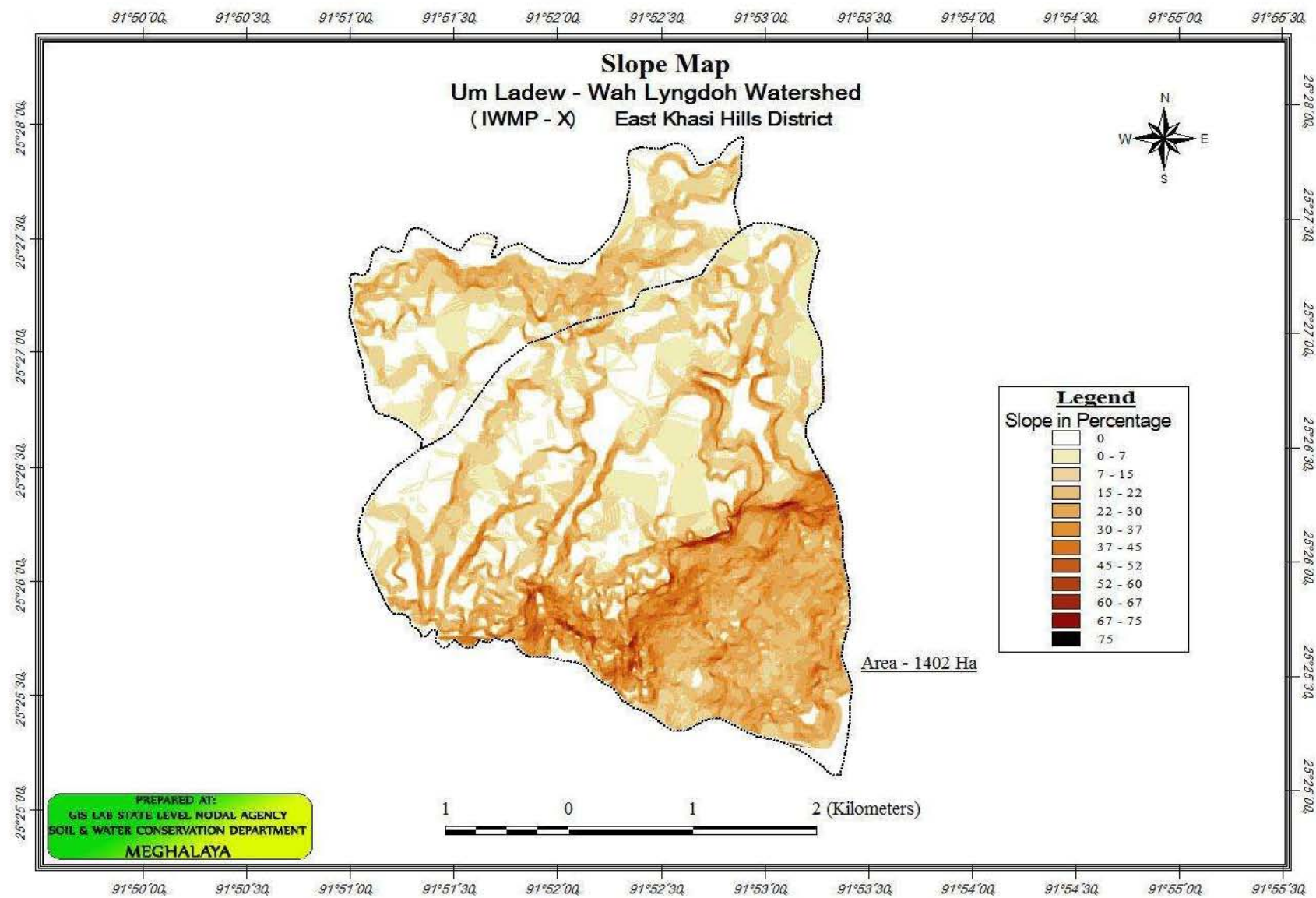
* from column no. 2, total no. of States implementing the programme, from column no. 3, total no. of Districts; from Column no. 4, no. of projects, from column no. 5, no. of WCs, from column no. 6, no. of structures/ activities, from column no. 7 to 10, category-wise# totals, may be mentioned at the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

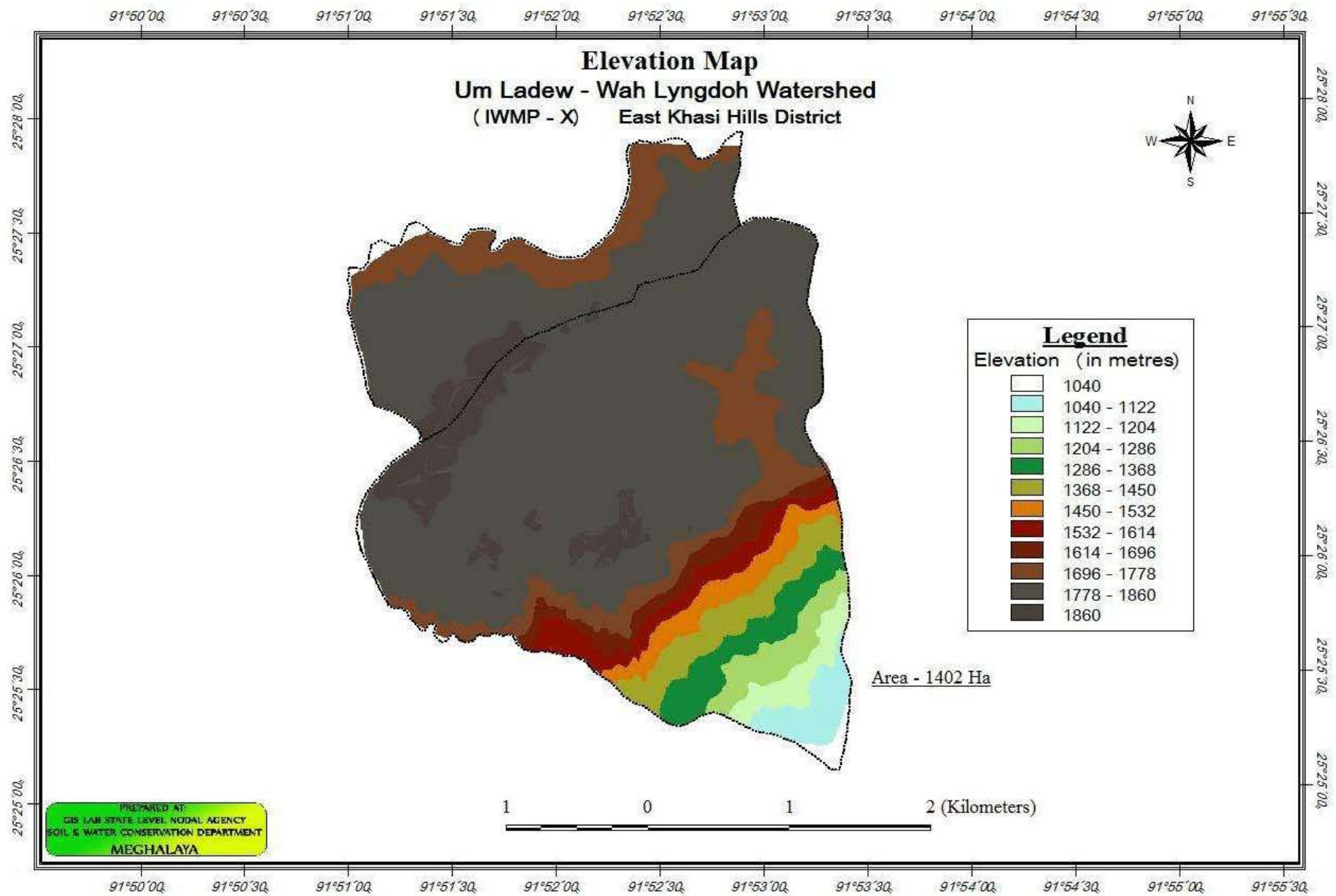
[#] B:C ratio more than 1 – cost effective
less than 1 – Not cost effective

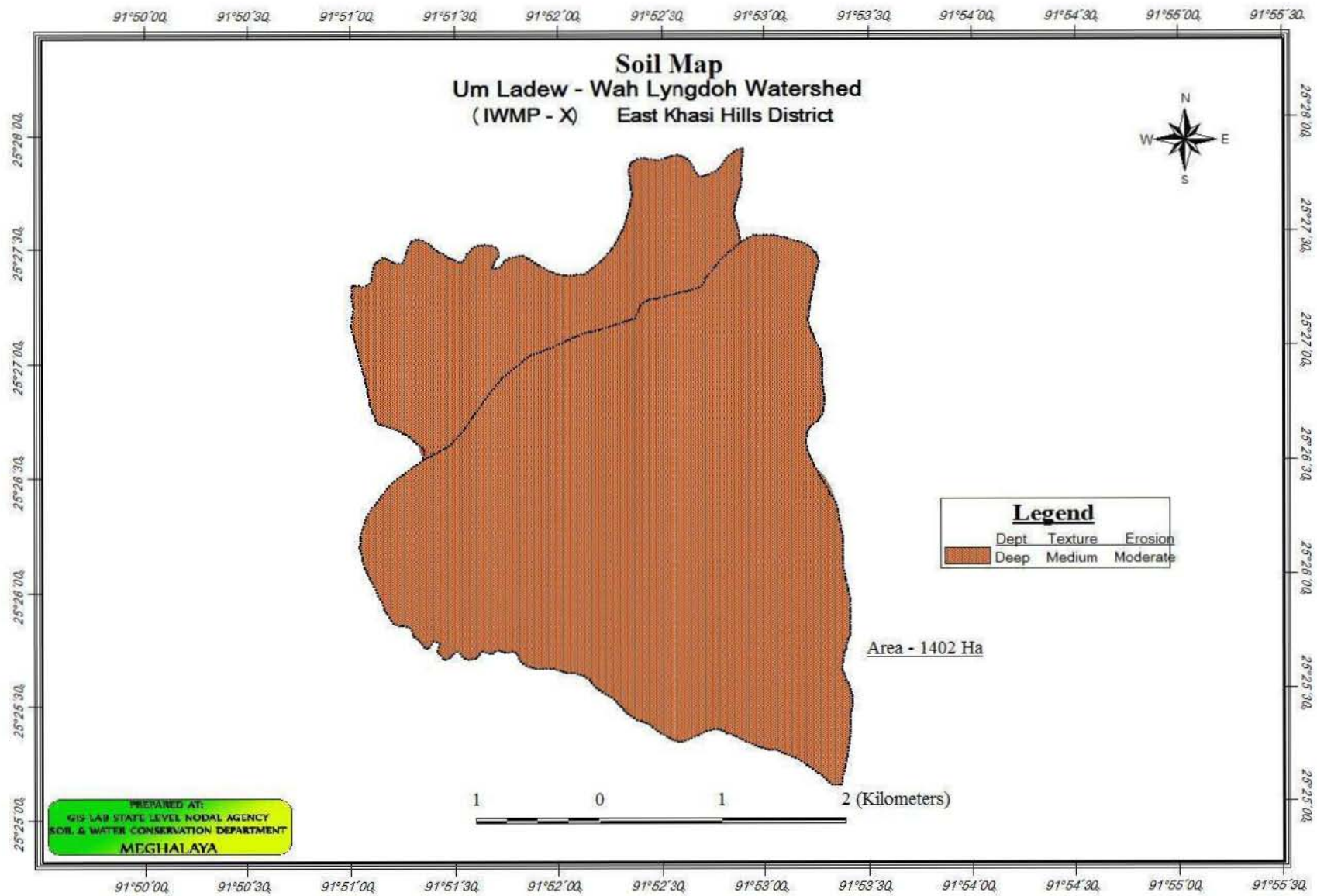
ANNEXURE I

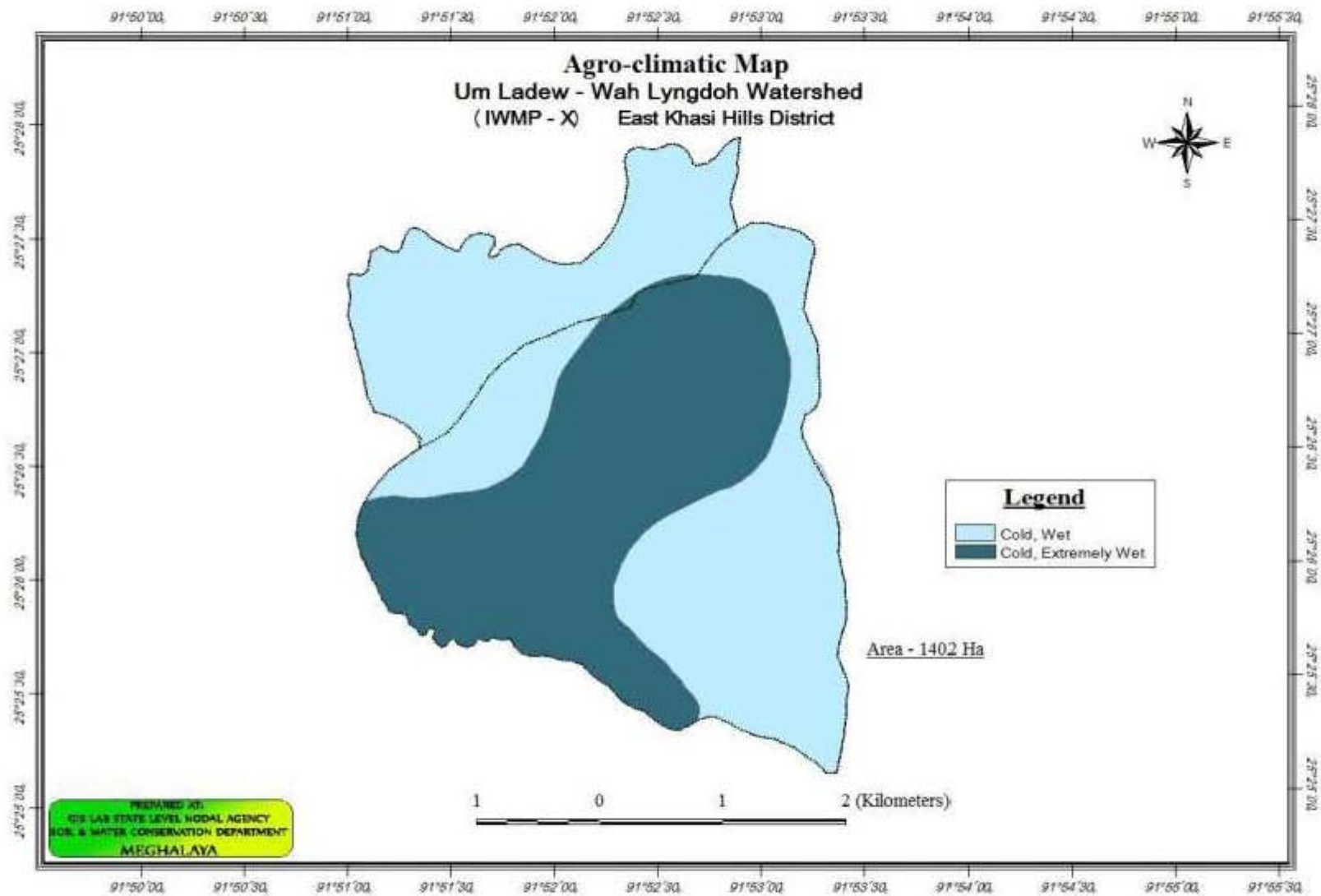
MAPS

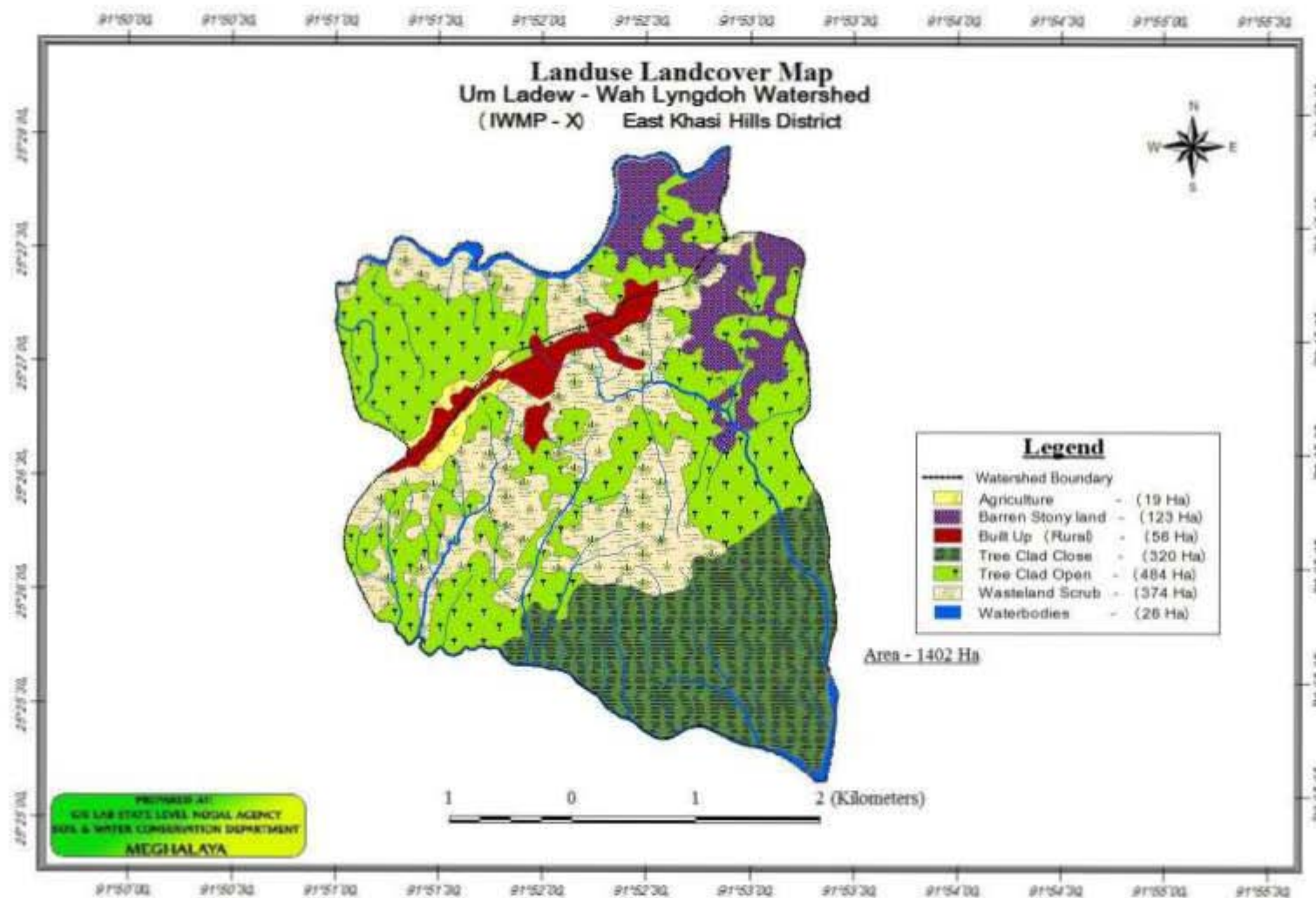


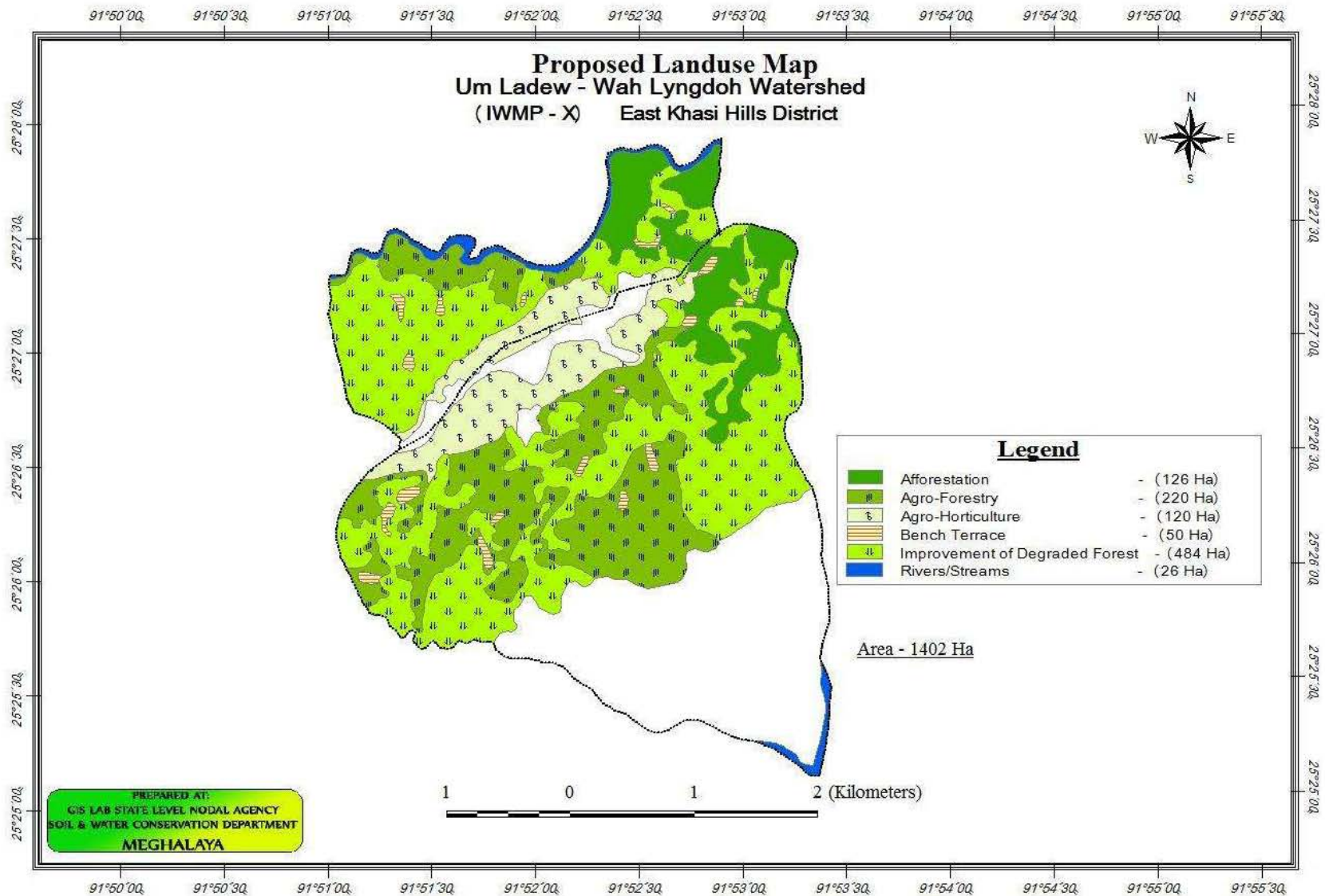


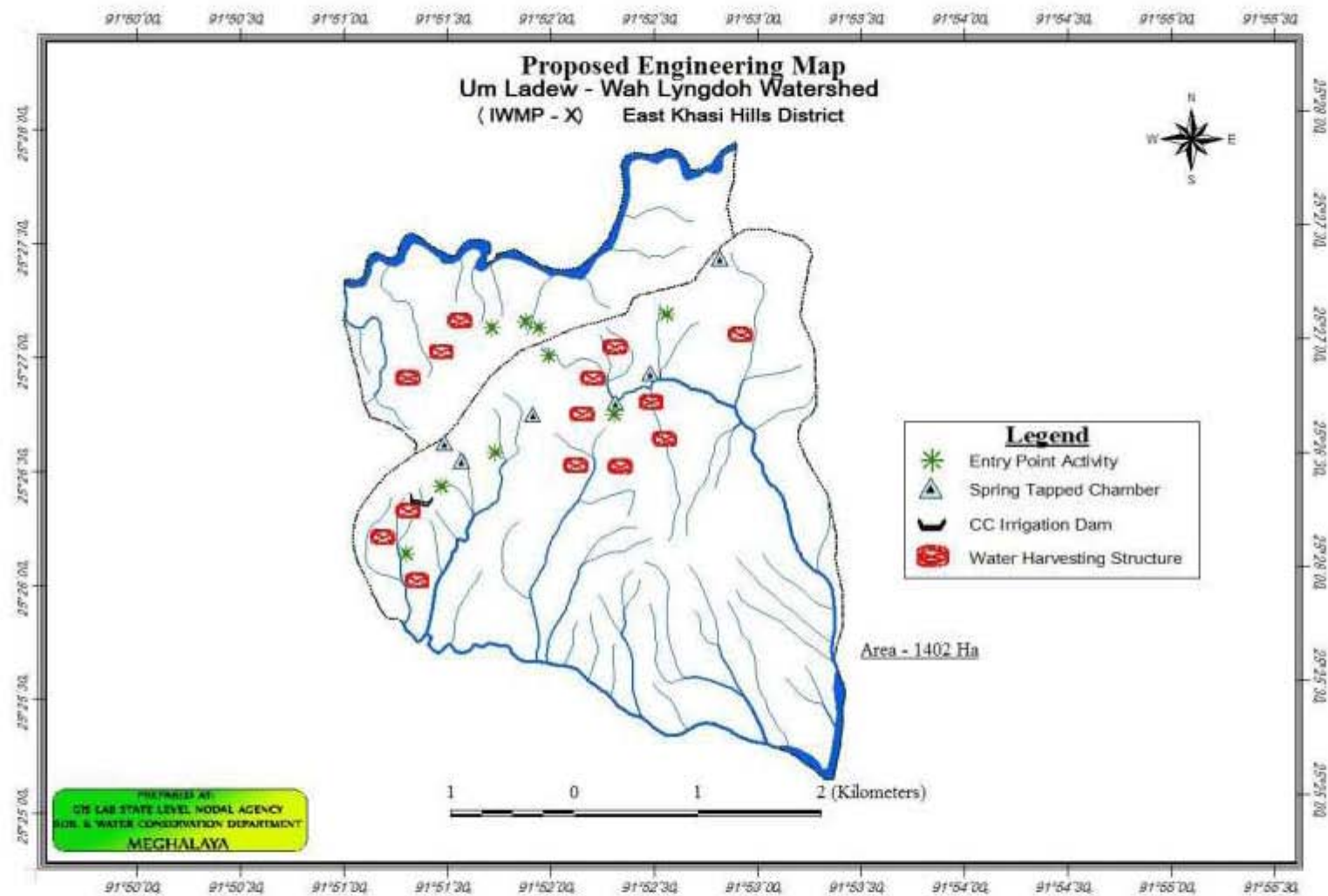












ANNEXURE II

SOCIO-ECONOMIC SURVEY DETAILS

SOCIO ECONOMIC DATA OF JALYNTENG VILLAGE, NONGKYNRIH

SL NO	NAME OF THE HEAD OF FAMILY	POPULATION			LITERACY			OCCUPATION
		MALE	FEMALE	TOTAL	LITERATE	ILLITERATE	TOTAL	
1	2	3	4	5	6	7	8	9
1	Shri. Slarsing Pyngrope	1	6	7	Literate	X	7	Farmer
2	Smt. Ermilin Nongkynrih	3	3	6	Literate	X	6	Farmer
3	Smt. Edoina Nongkynrih	1	3	4	Literate	X	4	Farmer
4	Smt. Phlur Nongkynrih	4	3	7	Literate	X	7	Farmer
5	Phosloni Khongsar	2	2	4	Literate	X	4	Farmer
6	Shri. Skhembor Khongsngi	6	2	8	Literate	X	8	Farmer
7	Missimary Nongkynrih	1	1	2	Literate	X	2	Farmer
8	Herbin Kharkongor	3	1	4	Literate	X	4	Farmer
9	Ngiarbon Nongrum		1	1	Literate	X	1	Farmer
10	Pynhunlang Rynjah	2	2	4	Literate	X	4	Farmer
11	Pynshai Nongrum	3	3	6	Literate	X	6	Farmer
12	Slamon Rynjah		2	2	Literate	X	2	Farmer
13	Pilisstar Khongsngi	4	2	6	Literate	X	6	Farmer
14	Mastarwell Khongwir	2	2	4	Literate	X	4	Farmer
15	Smt. Barilin Nongkynrih		2	2	Literate	X	2	Farmer
16	Pynshai Nongrum	3	3	6	Literate	X	6	Farmer
17	Stier Rynjah	6	4	10	Literate	X	10	Farmer
18	Ebarwell Nongkynrih	2	3	5	Literate	X	5	Farmer
19	Shoina Rynjah	5	3	8	Literate	X	8	Farmer
20	Pyskhemlang Rynjah	4	1	5	Literate	X	5	Farmer
21	Phesster Sohtun	4	4	8	Literate	X	8	Farmer
22	Raplang Rynjah	2	2	4	Literate	X	4	Farmer
23	Phassklass Nongkynrih	4	2	6	Literate	2	6	Farmer
24	Phrari Kharkongor	2	2	4	Literate	X	4	Farmer

25	Limarsing Rynjah	3	3	6	Literate	X	6	Farmer
26	Bharilang Khongsngi	1	3	4	Literate	X	4	Farmer
27	Krasstar Rynjah	1	2	3	Literate	X	3	Farmer
28	Elington Lyngdoh	1	3	4	Literate	X	4	Farmer
29	Perston Nongsteng	3	2	5	Literate	X	5	Farmer
30	Irial Nongkynrih	8	2	10	Literate	X	10	Farmer
31	Mohon Diengdoh	2	3	5	Literate	X	5	Farmer
32	Slatsing Rynjah	2	2	4	Literate	X	4	Farmer
33	Nibassing Khongsngi	2	4	6	Literate	X	6	Farmer
34	Thratstar Rynjah	2	2	4	Literate	X	4	Farmer
35	Bilianty Rynjah	4	5	9	Literate	X	9	Teacher
36	Shri. Banshgainlang Khongsngi	2	2	4	Literate	X	4	Farmer
37	Smt. Loirida Rynjah	3	4	7	Literate	X	7	Farmer
38	Shri. Under Nongkynrih	6	7	14	Literate	X	13	Farmer
39	Shri. Ebasstar Lyngdoh	3	3	6	Literate	X	6	Farmer
40	Shri. Tlewed Nongkynrih	1	1	2	Literate	X	2	Farmer
41	Shri. Parari Nongkynrih	3	3	6	Literate	X	6	Farmer
42	Shri. Harding Rynjah	3	3	6	Literate	X	6	Farmer
43	Klansing Rynjah	2		2	Literate	X	2	Farmer
44	Smt. Phindarity Rynjah	1	3	4	Literate	X	4	Farmer
45	Shri. Omborsing Kharbuli	3	3	6	Literate	X	6	Farmer
46	Aidian Rynjah	5	2	7	Literate	X	7	Farmer
47	Droshon Lyngdoh	1		1		Illiterate	1	Farmer
48	Bateibor Kharsati	3	1	4	Literate	X	4	Farmer
49	Halari Nongkynrih	4	2	6	Literate	X	6	Farmer
50	Ebasing Rynjah	2	4	6	Literate	X	6	Farmer
51	Lakhotlang Nongsteng	1	1	2	Literate	X	2	Farmer
52	Dispi Nongkynrih	2	3	5	Literate	X	5	Farmer
53	Briarbon Myllem	2	3	5	Literate	X	5	Farmer
54	Bawaddorbha Rynjah	1		1	Literate	X	1	Farmer

55	Pyndaplang Khongsngi	1	2	3	Literate	X	3	Farmer
56	Ninedra Rynjah	3	3	6	Literate	X	6	Farmer
57	Owel Rynjah	3	3	6	Literate	X	6	Farmer
58	Anita Khongsngi	1	1	2	Literate	X	2	Farmer
59	Prilin Khongsngi	2	3	5	Literate	X	5	Farmer
60	Iiskarson Rynjah	5	4	9	Literate	X	9	Farmer
61	Irolin Rynjah	3	2	5	Literate	X	5	Farmer
62	Pailadondor Kharbudon	3	1	4	Literate	X	4	Farmer
63	Dinus Marbaniang	2	1	3	Literate	X	3	Farmer
64	Drassing Rynjah	3	2	5	Literate	X	5	Farmer
65	Kestar Rynjah	4	6	10	Literate	X	10	Farmer
66	Lek Nongkynrih	1	2	3	Literate	X	3	Farmer
67	Silon Khongsngi		3	3	Literate	X	3	Farmer
68	Klammicos Rynjah	2	2	4	Literate	X	4	Farmer
69	Shri. Barnor Rynjah	4	3	7	5	2	7	Rep
70	Shri. Marshan Shylla	3	3	6	3	3	6	Rep
71	Shri. Shanlang Lyngdoh	2	4	6	2	4	6	Rep
72	Shri. Tyngshain Khongwet	4	4	8	5	3	8	Rep
73	Shri. Silestine Lamin	2	5	7	4	3	7	Rep
74	Shri. Silet Khongsni	3	7	10	8	2	10	Rep
75	Shri. Teibor Lyngdoh	4	2	6	4	2	6	Rep
76	Shri. Kobarwel Rynjah	5	1	6	2	4	6	Rep
77	Smt. Sama Lyngdoh	1	1	2	2		2	Rep
78	Smt. Trik Lyngdoh		1	1	2		2	Bylla
79	Shri. Phlari Lyngdoh	5	3	8	4	4	8	Bylla
80	Shri. Tlarsing Lyngdoh	4	2	6	6		6	Trei Kti
81	Shri. Tister Khongji	3	4	7	5	2	7	Rep
82	Shri. Parbestor Nongkynrih	6	6	12	11	1	12	Rep
83	Shri. Shongriskhem Nongkynrih	1	6	7	3	4	7	Rep
84	Shri. Libester Rynjah	2	2	4	2	2	4	Bylla

85	Smt. Twentibon Khongsngi	4	2	6	4	2	6	Bylla
86	Shri. Lateibok Khongji	2	1	3	2	1	2	Bylla
87	Smt. Saimon Rynjah	3	2	5	3	2	5	Rep
88	Smt. Meslin Rynjah	3	5	8	5	3	8	Rep
89	Smt. Daiamon Rynjah	3	3	6	5	1	6	Rep
90	Smt. Phiskamon Rynjah	1	3	4	3	1	4	Rep
91	Shri. Iashemlang Nongkynrih	5	1	6	2	4	6	Rep
92	Smt. Tallih Khongsngi	2	2	4	4		4	Rep
93	Smt. Shadari Khongsngi	1	2	3	2	1	3	Rep
94	Smt. Triansi Khongsngi	3	4	7	4	3	7	Rep
95	Smt. Deril Khongsngi	2	4	6	3	3	6	Rep
96	Shri. Moonstar Nongsteng	4	3	7	4	3	7	Rep
97	Smt. Mallinda Khongsngi	6	2	8	7	1	8	Rep
98	Smt. Smillinda Nongkynrih	6	2	9	7	2	9	Rep
99	Shri. Kastarsing Rynjah	1	2	4	3	1	4	Hikai Skul
100	Shri. Shalenstar Nongkynrih	3	8	11	8	3	11	Rep
101	Shri. Malcobin Rynjah	1		1	1		1	Rep
102	Smt. Iahun Khongsngi	2	3	5	2	3	5	Rep
103	Shri. Madsing Nongrum	2		2	1	1	2	Rep
104	Shri. Ophisar Rynjah	5	4	9	6	3	9	Rep
105	Shri. Hershon Khyriem	2	6	8	6	2	8	Rep
106	Shri. Skojen Rynjah	6	5	11	8	3	11	Rep
107	Shri. Milstar Nongkynrih	8	5	13	10	3	13	Rep
108	Smt. Sil Khongsngi	1	3	4	3	1	4	Rep
109	Smt. Hermon Rynjah	4	2	6	3	3	6	Rep
110	Smt. Aibiansy Rynjah		1	1	1		1	Treikam Sorkar
111	Smt. Rettimon Lyngdoh	2	2	4	2	2	4	Bylla
112	Shri. P. Kharakor	1	2	3	2	1	3	Bylla
113	Smt. Hephi Rynjah	3	7	10	6	4	10	Rep
114	Shri. Mister Nongsteng	2	1	3	2	1	3	Rep

115	Shri. Tardren Nongrum	3	2	5	3	2	5	Rep
116	Shri. Klotstar Kharbudon	3	2	5	5		5	Rep
117	Smt. Rilian Rynjah	1	1	2	1	1	2	Rep
118	Shri. Thling Nongkynrih	2	3	5	4	1	5	Rep
119	Smt. Pliensi Khongsngi		1	1		1	1	Rep
120	Shri. Shrek Ryntathiang	2	1	3	2	1	3	Rep
121	Smt. Kyrbon Nongsteng	3	3	6	6		6	Rep
122	Smt. Lapynskhem Nongsteng	2	2	4	2	2	4	Rep
123	Shri. Kesborlang Khongsngi	2	2	4	2	2	4	Rep
124	Shri. Joinri Pyngrope	2	1	3	2	1	3	Rep
125	Shri. Phyllan Rynjah	6	3	9	8	1	9	Rep
126	Smt. Hinoniar Nongkynrih	2	3	5	3	2	5	Rep
127	Smt. Inoris Nongkynrih	2	3	5	2	3	5	Rep
128	Smt. Melinda Nongkynrih	1	5	6	5	1	6	Rep
129	Shri. Kopstar Rynjah	2	3	5	3	2	5	Rep
130	Shri. Numbal Nongrum	4	6	10	8	2	10	Rep
131	Shri. Baiaitreilang Khongsngi	2	2	4	2	2	4	Rep
132	Smt. Shidamon Rynjah	3	5	8	6	2	6	Rep
133	Shri. Phlensing Nongkynrih	2	2	4	2	2	4	Rep
134	Shri. Driew Pyngrope	6	4	10	8	2	10	Rep
135	Shri. Bajester Rynjah	5	2	7	7		7	Treikam Sorkar
136	Smt. Bian Rynjah	3	2	5	3	2	5	Rep
137	Shri. Klaster Rynjah	3	4	7	6	1	7	Rep
138	Shri. Ristanling Rynjah	4	1	5	3	3	6	Rep
139	Shri. Erphiston Rynjah	1	3	4	2	2	4	Rep
140	Shri. Akamar Nongkynrih	3	4	7	6	1	7	Rep
141	Smt. Jrain Rynjah	5	6	11	8	3	11	Rep
142	Smt. Shameri Rynjah	3	2	5	3	2	5	Rep
143	Smt. Dwissina Rynjah	1	3	4	2	2	4	Rep
144	Shri. Batkupar Nongkynrih	5	3	8	4	4	8	Rep

145	Smt. Moljina Rynjah	3	3	6	3	3	6	Rep
146	Smt. Thiri Rynjah		3	3	2	1	3	Rep
147	Shri. Ailansing Rnjah	3	4	7	4	3	7	Rep
148	Shri. Krar Rynjah	3	4	7	3	4	7	Rep
149	Shri. Neras Lyngdoh	2	3	5	2	3	5	Bylla
150	Shri. Stiej Khongsti	6	4	10	8	2	10	Rep
151	Smt. Kerjelina Nongrum	1	5	6	3	3	6	Rep
152	Smt. Periodsila Pyngrope	3	3	6	4	2	6	Rep
153	Shri. Phrangsngi Khongtem	6	7	13	12	1	13	Rep
154	Bissitarson Khongsngi	3	4	7	Literate	X	7	Farmer
155	Pisli Ksing	1	2	3	Literate	X	3	Farmer
156	Arwin Rynjah	4	3	7	Literate	X	7	Farmer
157	Sohlong Kharngi	3	3	6	Literate	X	6	Farmer
158	Ko Khongji	3	6	9	Literate	X	9	Farmer
159	Sbarling Pyngrope	5	2	7	Literate	X	7	Farmer
160	Robinstar Rynjah	2	5	7	Literate	X	7	Farmer
161	Banshanlang Pyngrope	1	1	2	Literate	X	2	Farmer
162	Kiet Rynjah	1	4	5	3	2	5	Farmer
163	Shestar Nongkynrih	3	2	5	Literate	X	5	Farmer
164	Bikonstar Warjri	1	4	5	Literate	X	5	Farmer
165	Baniatreilang rynjah	2	2	4	Literate	X	4	Farmer
166	Thwielin Khongsngi	3	3	6	Literate	X	6	Farmer
167	Shri. Ribhalang Shabong	3	2	5	2	3	5	Bylla
168	Shri. Morstar Myllemngap	1	1	2	2		2	Rep
169	Shri. Tailan Rynjah	2	4	6	4	2	6	Hikai Skul
170	Shri. Cleverson Nongkynrih	2	1	3	2	1	3	Bylla
171	Smt. Bhalinsha Rynjah	3	1	4	2	2	4	Bylla
172	Shri. Beslirroy Reenborn	1	1	2	1	1	2	Bylla
173	Shri. Omborsing Kharbuli	3	3	6	4	2	6	Rep

SOCIO ECONOMIC DATA OF MADAN FOOTBALL VILLAGE, NONGKYNRIH

SL NO	NAME OF THE HEAD OF FAMILY	POPULATION			LITERACY			OCCUPATION
		MALE	FEMALE	TOTAL	LITERATE	ILLITERATE	TOTAL	
1	2	3	4	5	6	7	8	9
1	Dingdon Nongkynrih	1	3	4	2	2	4	Knife Making
2	Nobarsing Nongkynrih	1	2	3	2	1	3	Farmer
3	Ladingstone Khongsngi	3	2	5		5	5	Farmer
4	Everest Nongkynrih	4	4	8	3	5	8	Govt. Services
5	Thingson Nongkynrih	3	3	6	4	5	6	Mistery
6	Ysthomos Pyngrope	3	4	7	2	5	7	Teacher
7	Hatsing Buhphang	3	3	6	4	2	6	Govt. Services
8	Sandra Rynjah		3	3		3	3	Farmer
9	Kathat Nongkynrih	1	1	2		2	2	Farmer
10	Ksanbor Nongkynrih	5	3	8		8	8	Knife Making
11	Andriw Kharjana	3	3	6	1	5	6	Driver
12	Riskhembor Rynjah	2	1	3	1	2	3	Farmer
13	Yostina Nongkynrih		3	3	1	2	3	Farmer
14	Baialamlang Pyngrope	2	4	6	4	2	6	Business
15	Hobik Nongsteng	3	2	5	1	4	5	Mistery
16	Merilin Nongkynrih	2	3	5		5	5	Farmer
17	Nangkyntiew Khongsngi	1	3	4		4	4	Farmer
18	Kitbesstone Nongrum	3	2	5	1	4	5	Do
19	Bela Nongkynrih	2	2	4		4	4	Do
20	Skamsing Mairang	3	3	6		6	6	Do
21	Orasstar Nongkynrih	3	3	6		6	6	Do
22	Kynsaibor Nongkynrih	5	2	7		7	7	Do
23	Besstar Rynjah	3	3	6		6	6	Do
24	Toni Swer	3	3	6		6	6	Do

25	Spalsing Rynjah	2	2	4		4	4	Do
26	Sneling Nongkynrih	5	3	8		8	8	Farmer
27	Ryngkat Rynjah	1	5	6		6	6	Do
28	Kobassing Rynjah	3	4	7		7	7	Do
29	Risuklin Nongkynrih	2	2	4	1	3	4	Do
30	Kriswon Rynjah	2	4	6		6	6	Do
31	Thran Marbaniang	4	3	7		7	7	Do
32	Dengmon Nongkynrih	1	4	5		5	5	Do
33	Iainehskhem Rynjah	1	2	3		3	3	Do
34	Shimtimon Nongkynrih	4	2	6		6	6	Do
35	Silo Nongkynrih		1	1		1	1	Do
36	Pyrngat Tynsong	3	2	5	2	3	5	Do
37	Dikliar Rynjah	2	1	3		3	3	Mistery
38	Kisrar Rynjah	5	2	7	2	5	7	Farmer
39	Skatsing Nongkynrih	3	2	5		5	5	Do
40	Samborlang Kharbuli	2	3	5	1	4	5	Do
41	Phron Diengdoh	3	4	7	2	5	7	Do
42	Rosmina Nongkynrih	1	2	3		3	3	Do
43	Kyrsoi Rynjah	4	1	5		5	5	Do
44	Samson Kharbuli	2	3	5	1	4	5	Do
45	Blona Nongkynrih	1	1	2		2	2	Do
46	Shemphang Tangsai	3	3	6	4	2	6	Driver
47	Storan diengdoh	2	3	5		5	5	Black Smith
48	Bashngain Khongsngi	3	1	4		4	4	Farmer
49	LumbosstarNongkynrih	3		3		3	3	Black Smith

SOCIO ECONOMIC DATA OF MAWKYNRING VILLAGE, NONGKYNRIH

SL NO	NAME OF THE HEAD OF FAMILY	POPULATION			LITERACY			OCCUPATION
		MALE	FEMALE	TOTAL	LITERATE	ILLITERATE	TOTAL	
1	2	3	4	5	6	7	8	9
1	Teilang Khmah	2	5	7		7	7	Farmer
2	Siiar Nongkynrih	4	2	6		6	6	Farmer
3	Basmenlin Rynjah	4	2	6	1	5	6	Farmer
4	Stetion Myllem	1		1		1	1	Farmer
5	Phrimon Nongkynrih	3	4	7		7	7	Farmer
6	Pyniarlang K. Sngi	3	4	7	1	6	7	Farmer
7	Barishai Khmah	2	1	3		3	3	Farmer
8	Thwissiolin Khmah	2	2	4		4	4	Farmer
9	Tiiosi Khmah	2	2	4		4	4	Farmer
10	Binosha Nongkynrih	1	2	3		3	3	Farmer
11	Kermery Rynjah	2	2	4	1	3	4	Farmer
12	Trar Nongkynrih	1		1		1	1	Farmer
13	Dakershisha Nongkynrih	3	1	4		4	4	Farmer
14	Silamon Rynjah	2	1	3		3	3	Farmer
15	Tiyalin Rynjah	2	1	3		3	3	Farmer
16	Phrisha K. Jee	2	2	4		4	4	Farmer
17	Latimon Khmah	4	3	7	1	6	7	Farmer
18	Blied Rynjah	5	5	10		10	10	Farmer
19	Dlup Warjri	3	6	9	2	7	9	Farmer
20	Silanda Warjri	4	3	7	1	6	7	Farmer
21	Melinda Rynjah	3	2	5		5	5	Farmer
22	Jngiat Rynjah		2	2		2	2	Farmer
23	Trilo Rynjah	3	1	4		4	4	Farmer
24	Bestina Rynjah	5	2	7	1	6	7	Farmer

25	Darisha Rynjah	3	4	7		7	7	Farmer
26	Skoï Rynjah	4	3	7	2	5	7	Farmer
27	Roibha Rynjah	2	4	6		6	6	Farmer
28	Sloity Rynjah	3	4	7	1	6	7	Farmer
29	Wilis Nongkynrih	9	3	12	1	11	12	Farmer
30	Ailanda Nongkynrih	3	3	6		6	6	Farmer
31	Lekat Rynjah	4	4	8		8	8	Farmer
32	Listina Myllem	3	7	10	1	9	10	Farmer
33	Kwelsilin Rynjah	3	5	8	1	7	8	Farmer
34	Lhaimon Khmah	3	4	7		7	7	Farmer
35	Wantimon Khmah	4	6	10		10	10	Farmer
36	Tiria Khmah	2	6	8	1	7	8	Farmer
37	Smarty Khmah	3	5	8		8	8	Farmer
38	Krimlan Rynjah	4	5	9		9	9	Farmer
39	Rosilin Nongkynrih	1	1	2		2	2	Farmer
40	Swan Khmah	1	2	3		3	3	Farmer
41	Dassanson Nongkynrih	5	3	8	1	7	8	Driver
42	Jindra Rynjah	6	3	9		9	9	Farmer
43	Blamon Rynjah	7	3	10		10	10	Farmer
44	Morela Pyngrope	1	6	7	1	6	7	Farmer
45	Mesriar Pyngrope	1	1	2		2	2	Farmer
46	Adalka Rynjah	5	3	8		8	8	Farmer
47	Yona Pyngrope	2	1	3		3	3	Farmer
48	G.M.C Nongkynrih	6	3	9		9	9	Farmer
49	Rinusta Nongkynrih	6	4	10		10	10	Farmer
50	Deieit Rynjah	4	2	6		6	6	Farmer
51	Takkura Rynjah	3	1	4		4	4	Farmer
52	Aimilda Rynjah	1	4	5	1	4	5	Farmer
53	Prinsida Khmah	4	2	6		6	6	Farmer
54	Mildret Rynjah	5	3	8	1	7	8	Farmer

55	Tilissina Khmah	4	3	7		7	7	Farmer
56	Lady Rynjah	4	3	7		7	7	Farmer
57	Thraidian Khmah	5	2	7		7	7	Farmer
58	Aisnori Nongkynrih	7	3	10		10	10	Farmer
59	Stianmon Nongkynrih	4	6	10		10	10	Farmer
60	Sarthil Nongkynrih	3	1	4		4	4	Farmer
61	Oila Rynjah	3	5	8		8	8	Farmer
62	Helianty Pyngrope	4	3	7	1	6	7	Farmer
63	Spiarbon Nongkynrih	4	4	8		8	8	Farmer
64	Moidalin Rynjah	4	5	9	1	8	9	Farmer
65	Bliia Nongkynrih	1	4	5		5	5	Farmer
66	Slin Khmah	5	4	9		9	9	Farmer
67	Yilty Khmah	4	5	10	1	9	10	Farmer
68	Shimshida Rynjah	3	5	8		8	8	Farmer
69	Elista Rynjah	2	2	4		4	4	Farmer
70	Youdaris Khmah	2	2	4		4	4	Farmer
71	Shaidalin K. Jee	3	3	6		6	6	Farmer
72	Tngensi Rynjah	1	1	2		2	2	Farmer
73	Krismilin Rynjah	2	1	3		3	3	Farmer
74	Bada Rynjah	1	1	2	2		2	Farmer
75	Buhmynti Rynjah	3	3	6		6	6	Farmer
76	Trinoris Nongkynrih	3	3	6		6	6	Farmer
77	Tiyar K.Sngi	3	3	6		6	6	Farmer
78	Airikynti Rynjah	1	1	2		2	2	Farmer
79	Tiior Nongkynrih	4	4	8		8	8	Farmer
80	Thilamon Rynjah	1	2	3		3	3	Farmer
81	Throp Rynjah	1		1		1	1	Farmer
82	Baiamonlang Rynjah	1	2	3				Farmer
83	Baialin Nongkynrih	2	1	3				Farmer
84	Ridashisha Rynjah		2	2				Farmer

SOCIO – ECONOMIC DATA OF WAHTYNGNGAI VILLAGE, NONGKYNRIH

Sl. No.	Name of the Head of the Family	Population			Literacy			Occupation
		Male	Female	Total	Literate	Illiterate	Total	
1	2	3	4	5	6	7	8	9
1	Newstanlan Nongkynrih	1	3	4	2	2	4	Teacher
2	Oxford Nongkynrih	1	3	4	1	3	4	Labourer
3	Labita Rynjah	2	3	5	2	3	5	Labourer
4	Shalinda Rynjah	2	2	4	1	3	4	Labourer
5	Shngainlang Nongkynrih	3	1	4	2	2	4	Teacher
6	Taidalin Rynjah	2	4	6	2	4	6	Farmers
7	Stan Pyngrope	2	2	4	1	3	4	Farmers
8	Pynhun Rynjah	1	1	2	1	1	2	Farmers
9	Shongneh Rynjah	0	4	4	1	3	4	Farmers
10	Phrastar Khongwir	1	1	2	1	1	2	Farmers
11	Shotsing khmah	4	3	7	0	7	7	Farmers
12	Blonsing Rynjah	3	2	5	0	5	5	Farmers
13	Pral Rynjah	2	4	6	1	5	6	Farmers
14	Shenbestar Nongkynrih	2	4	6	1	5	6	Black smithy
15	Stenkoshan Rynjah	2	1	3	1	2	3	Farmers
16	Dret Mylliem	3	2	5	1	4	5	Farmers
17	Bilbon Pyngrope	1	4	5	1	4	5	Farmers
18	Kumnga Nongkynrih	3	4	7	1	6	7	Farmers
19	Skorsing Nongkynrih	3	2	5	2	5	7	Black Smithy
20	Herplet Nongkynrih	6	3	9	2	7	9	Farmers
21	Manbha shabong	2	2	4	2	2	4	Farmers
22	Starbor Nonglynrih	4	5	9	1	8	7	Farmers
23	Pynsiangty Rynjah	1	2	3	1	2	3	Farmers
24	Khristimon Rynjah	1	2	3	1	2	3	Farmers
25	Snalin Nongkynrih	2	2	4	1	3	4	Farmers
26	Hatonsing Rynjah	3	5	8	2	6	8	Farmers
27	Malik Rynjah	2	2	4	1	3	4	Black Smithy
28	Piior Rynjah	1	3	4	1	3	4	Farmers
29	Halaban Nonglynrih	1	2	3	1	2	3	Farmers

30	Sbotsing Nongkynrih	2	3	5		5	5	Farmers
31	Stimar Rynjah	1	4	5	1	4	5	Labourer
32	Kitboklang Thanghiew	2	2	4	1	3	4	Farmers
33	Bansroy Nongrum	2	2	2	1	3	4	Farmers
34	Pynbianglang Rynjah	1	1	2	1	1	2	Farmers
35	Wodren Khongsngi	2	2	4	2	2	4	Shopkeeper
36	Shosstar Rynjah	2	2	4	1	3	4	Farmers
37	Dlik Khmah	4	6	10	2		10	Farmers
38	Dhil Nongkynrih	1	3	4	1		4	Farmers
39	Plasting Rynjah	8	4	12	2		12	Farmers
40	Bashaidor Rynjah	1	1	2	1		2	Farmers
41	Khoston Nongkynrih	2	3	6	2		6	Farmers
42	Stanroy Rynjah	2	1	3			3	Farmers
43	Dhashan Nongkynrih	6	4	10	4		10	handicraft
44	Diken Rynjah	3	4	7	1		7	Farmers
45	Briston Nongkynrih	3	1	4			4	Farmers
46	Meribi Rynjah	3	1	4			4	Farmers
47	Rosli Rynjah	5	3	8			8	Farmers
48	Blasstar Nongkynr	6	3	9	1		9	Farmers
49	Peter Dkhar	2	4	6			6	Farmers
50	Stishal Nongkynrih	3	2	5	1		5	Farmers
51	Bikon Myllem	3	4	7	2		7	Farmers
52	Shesstar Nongkynrih	4	4	8	2	6	8	Farmers
53	Kasnola Kharsati	2	3	5	2	3	5	Black Smithy
54	Debing Rynjah	2	3	5	2	3	5	Black smithy
55	Baskarbarman Rynjah	2	3	5	3	2	5	Black smithy
56	Baddaw Rynjah	7	2	9	1	8	9	Farmers
57	Phoiar Nongkynrih	1	7	8	6	2	8	Farmers
58	Kophri Khmah	3	4	7		7	7	Farmers
59	Selvesson Myllem	2	1	3	1	2	3	Farmers
60	Shalanri Pyngrope	2	3	5	2	3	5	Farmers
61	Balastar Rynjah	3	4	7	2	5	7	Handicraft
62	Skensing Nongkynrih	6	3	9	2	7	9	Handicraft
63	Rangston Rynjah	4	5	9	2	7	9	Farmers
64	Sinoris Nongkynrih	2	3	5	1	4	5	Farmers
65	Knopad Nongkynrih	6	3	9	2	7	9	Farmers

66	Bajan Lyngdohs	5	3	8	2	6	8	Black Smithy
67	Sini Nongkynrih	1	2	3	1	2	3	Farmers
68	Pransing khmah	5	2	8	1	7	8	Farmers
69	Linstar Nongkynrih	3	4	7		7	7	Farmers
70	Bikon Nongkynrih	4	1	5		5	5	Farmers
71	Oliver Myrchiang	3	3	6	1	5	6	Farmers
72	Oralsing Lyngdoh	2	2	4	1	3	4	Farmers
73	Tron Rynjah	2	5	7	1	6	7	Farmers
74	Bikerson rynjah	2	2	4	1	3	4	Farmers
75	Thei Khmah	1	1	2		2	2	Farmers
76	Blarsing Rynjah	1	3	4		4	4	Farmers
77	Kailos Rynjah	3	4	7	2	5	7	Farmers
78	Klian Rynjah	1	5	6		6	6	Farmers
79	Shan Rynjah	3	4	7		7	7	Farmers
80	Spiwel Pyngrope	3	1	4		4	4	Farmers
81	Koshen Nongkynrih	4	2	5	1	4	5	Farmers
82	Iomsing Khongsngi	4	2	5	1	4	5	Black smithy
83	Brisia Rynjah	1	2	3	1	2	3	Farmers
84	Shoibatsing Nongkynrih	6	2	8	1	7	8	Farmers
85	Tinoras Rynjah	2	6	1	1	7	8	Farmers
86	Traibor Rynjah	6	7	13	2	11	13	Farmers
87	Pheti Rynjah	0	1	1	0	1	1	Farmers
88	Singstar Rynjah	5	4	9	2	7	9	Labourer
89	Salina Nongkynrih	0	2	2	0	2	2	Farmers
90	Phip Nongrum	5	1	6	0	6	6	Farmers
91	Elbinol Kharsati	2	4	6	2	4	6	Farmers
92	Blanson Nongkynrih	3	3	6	2	4	6	Black Smithy
93	Sket Mylliem	4	1	5	1	4	5	Farmers
94	Tipbok Rynjah	1	4	5	1	4	5	Farmers
95	Pynkhlain Khmah	1	1	2	0	2	2	Farmers
96	Tringsen Rynjah	2	2	4	0	4	4	Farmers
97	Teilak Pyngrope	4	1	5	1	4	5	Farmers
98	Honphri Khmah	3	3	6	2	4	6	Farmers
99	Philmai Pyngrope	1	6	7	2	4	7	Farmers
100	Jaman Khmah	3	3	6	2	4	6	Farmers
101	Jedarson Mylliem	1	3	4	0	4	4	Farmers

102	Arben Lyngdoh	3	4	7	3	4	7	Farmers
103	Dramsing Khmah	3	4	7	1	6	7	Farmers
104	Slam Rynjah	6	3	9	2	7	9	Farmers
105	Kil khmah	1	1	2	10	2	2	Farmers
106	Iashemlang Rynjah	2	2	4	2	3	4	Farmers
107	Moistansing Nongkynrih	3	3	6	2	4	6	Farmers
108	Bhabok Nongkynrih	3	4	7	0	5	7	Farmers
109	Adling Rynjah	2	1	3	2	3	3	Farmers
110	Beron khmah	3	5	8		6	8	Farmers
111	Romes Khmah	2	2	4	0	4	4	Farmers
112	Hehbor Rynjah	3	3	6	0	6	6	Farmers
113	Maharal Nongkynrih	5	4	9	2	7	9	Farmers
114	June Synrem	4	7	11	2	9	11	Farmers
115	Skenroy Nongkynrih	2	3	5	0	5	5	Farmers
116	Strianomon Rynjah	2	2	4	1	3	4	Farmers
117	Kamles Khmah	3	2	5	1	4	5	Farmers
118	Harling Myllem	4	3	7	2	5	7	Farmers
119	Phrid Rynjah	3	2	5	2	3	5	Farmers
120	Eriancy Rynjah	2	1	3	0	3	3	Farmers
121	KoptenRynjah	1	0	1	0	1	1	Farmers
122	Ngo Pyngrope	2	1	3	0	3	3	Farmers
123	Kosstar Rynjah	1	0	1	0	1	1	Black Smithy
124	Iphidora rynjah	0	2	2	0	2	2	Farmers
125	Barilin Nongkynrih	1	1	2	0	2	2	Farmers
126	Hebilin Rynjah	1	1	3	0	3	3	Farmers
127	Triana Nongkynrih	3	2	5	1	4	5	Farmers
128	Khuntai Rynjah	2	1	3	0	3	3	Farmers
129	Barina Rynjah	1	1	2	2	0	2	Farmers
130	Dashisha Nongkynrih	1	2	3	0	3	3	Farmers
131	Kiiarty Nongkynrih	1	1	2	0	2	2	Farmers
132	Trilda Rynjah	1	1	2	0	2	2	Farmers
133	Biloris Rynjah	2	3	5	0	5	5	Farmers
134	Danista Myllem	2	3	5	0	5	5	Farmers
135	Sikrinda Pyngrope	1	1	2	0	2	2	Farmers
136	Mo Mukhim	1	3	4	0	4	4	Farmers
137	Rikemenlang Nongkynrih	3	1	4	0	4	4	Farmers

138	Yod Khmah	7	3	10	2	8	10	Farmers
139	Darwin Khmah	5	4	9	2	7	9	Farmers
140	Lokestar Myllem	3	2	5	2	3	5	Farmers
141	Tebishon Khmah	3	2	5	0	5	5	Farmers
142	Joblang Nongkynrih	1	3	4	0	4	4	Farmers
143	Briasila Rynjah	2	2	4	1	3	4	Farmers
144	Kynjoibor Khmah	5	2	7	0	7	7	Farmers
145	Transwel Khmah	3	3	6	1	5	6	Farmers
446	Mimidola Rynjah	2	2	4	0	2	4	Business
147	Niras Lyngdoh	3	3	6	0	6	6	Black Smithy
148	Rotina Dkhar	2	4	6	0	6	6	Farmers
149	Barut Rynjah	1	0	1	0	1	1	Farmers
150	Swik Rynjah	1	0	1	0	1	1	Bee keeper
151	Sper Rynjah	0	1	1	0	1	1	Farmers
152	Pehlang Khmah	1	1	2	0	2	2	Farmers
153	Iril Myllem	3	1	4	4	0	4	Farmers
	153 Houses			793 Nos. of population.				

SOCIO – ECONOMIC DATA OF MADAN LYNGDOH VILLAGE, NONGKYNRIH

Sl. No.	Name of the Head of the Family	Population			Literacy			Occupation
		Male	Female	Total	Literate	Illiterate	Total	
1	2	3	4	5	6	7	8	9
1	Ioanis Rynjah	2	3	5	3	2	5	Farmer
2	Phormingstar shabong	2	2	4	2	2	4	√
3	Thwissida Rynjah	2	4	6	5	1	6	√
4	Slender Rynjah	2	2	4	4	x	4	√
5	ngersibor Nongkynrih	3	1	4	3	1	4	√
6	Redington Nongrum	3	2	5	8	1	5	√
7	Hastarting Suting	4	5	9	8	1	9	√
8	Jngen Nongkynrih	1	2	3	2	1	3	√
9	Brotstar Nongrum	3	2	5	3	2	5	√
10	Donbor Buhphang	1	3	4	2	2	4	√
11	Dashimti Nongrum	x	1	1	1	x	1	√
12	Pilastar Nongrum	2	5	7	6	x	7	√
13	Lapsing Khongsngi	3	2	5	4	1	5	√
14	Brailin Rynjah	1	3	4	4	x	4	√
15	Mhie Nongrum	1	1	2	1	1	2	√
16	Ralgina Nongrum	x	1	1	1	x	1	√
17	Emasha Nongrum	x	1	1	1	x	1	√
18	Worstar Rynjah	4	5	9	6	3	9	√
19	Tilinda Rynjah	4	3	7	5	2	7	√
20	Lucas Nongrum	3	2	5	5	x	5	√
21	Phildalin Nongrum	3	4	7	5	2	7	√
22	Ebarwood Rynjah	2	3	5	4	x	4	√
23	Aiborlang Khongjee	1	4	5	5	x	5	√
24	Phriakmen Myllem	4	2	6	5	1	6	√
25	Wanmon Myllem	x	4	4	3	1	4	√
26	Phei Khongsngi	x	1	1	x	1	1	√
27	Jreir Rynjah	1	1	2	x	2	2	√
28	Phorword Kharsyntiew	3	1	4	4	x	4	√
29	Edington Nongkhlaw	5	4	9	9	x	9	√
30	Tiroswel Rynjah	3	x	5	5	x	5	√

31	Akos Khongsngi	1	x	1	x	1	1	√
32	Isbod Khongsngi	1	x	1	x	1	1	√
33	Kringshon Khongsngi	1	x	1	x	1	1	√
34	Phal Khongsngi	1	4	5	3	2	5	√
35	Bedingstar Nongkynrih	1	2	3	2	1	3	√
36	Jonathan Nongkynrih	3	3	3	5	1	6	√
37	Dierlin Rynjah	1	3	4	2	2	4	√
38	Soplin Rynjah	3	2	5	4	1	5	√
39	Shemborlang Warjir	3	4	7	6	1	7	√
40	Rosstar Nongrum	4	2	6	5	1	6	√
41	Defren Shabong	5	2	7	6	1	7	√
42	Dilip Nongsteng	4	7	11	11	0	11	√
43	Khmaiborlang Rynjah	2	4	6	5	1	6	√
44	Blipsing Pyngrope	5	3	8	7	1	8	√
45	Tassing Rynjah	2	3	5	5	0	5	√
46	Drailis Rynjah	1	5	6	1	5	6	√
47	Tiniar Mannar	1	1	2	2	x	2	√
48	Pynlangbor Rynjah	3	5	8	5	3	8	√
49	Raskupar Pyrtuh	5	3	8	8	0	8	√
50	Lian Rynjah	1	1	2	1	1	2	√
51	Iposi Rynjah	x	3	3	2	1	3	√
52	Phlodi Rynjah	x	2	2	1	1	2	√
53	Tressmolian Rynjah	4	3	7	9	1	10	√
54	Thrangshon Nongsieng	3	2	5	3	2	5	√
55	Klian Rynjah	x	2	2	1	1	2	√
56	Darasing Suting	4	1	5	5	0	5	√
57	Sympor Kharakor	3	2	5	4	1	5	√
58	Remdor Nongkynrih	2	2	4	3	1	4	√
59	Shembor Nongkhlaw	1	4	5	4	1	5	√
60	Poslan Kurbah	4	2	6	5	1	6	√
61	Teiborskhem Rynjah	3	2	5	4	1	5	√
62	Steinshon Nongkynrih	4	2	6	5	1	6	√
63	Levingstone Khongsai	1	2	3	2	1	3	√
64	Dringstar Rynjah	2	4	6	5	1	6	√
65	Ordersing Nongrum	2	2	4	2	2	4	√
66	Bashenlang Nongkynrih	2	1	3	3	0	3	√

67	Kdeh Rynjah	2	1	3	2	1	3	√
68	Bisto Nongrum	2	4	6	4	2	6	√
69	Raja Nongjynrih	4	6	10	7	3	10	√
70	Lowisstar Nongrum	1	2	3	1	2	3	√
71	Albanshon Rynjah	2	1	3	1	2	3	√
72	Binsilda Nongrum	4	3	7	4	3	7	√
73	Drasstar Pyngrope	3	4	7	7	0	7	√
74	Shessatar Nongkynrih	5	1	6	5	1	6	√
75	Kbial Rynjah	2	3	5	4	1	5	√
76	Kwistida Rynjah	2	3	5	4	1	5	√
77	Dlington Mataw	4	5	9	9	0	9	√
78	Phil Rynjah	1	5	6	5	1	6	√
79	Sarotina Rynjah	2	2	4	3	1	4	√
80	Banker Khongtani	2	3	5	4	1	5	√
81	Shynsharlang Nongkhlaw	3	2	5	5	0	5	√
82	Bhabok Rynjah	1	3	4	3	1	4	√
83	Komwell Khongsngi	3	2	5	3	1	4	√
84	Iridalin Nongrum	4	2	6	5	1	6	√
85	Shimtilang Ryjah	2	3	5	4	1	5	√
86	Rolip Nongkynrih	1	1	2	1	1	2	√
87	Henry Nongsteng	3	4	7	4	2	6	√
88	Jyrmu Nongktynrih	5	5	10	8	2	10	√
89	Iastina Suting	0	2	2	2	x	2	√
90	Alexander Pyngrope	2	4	6	5	1	6	√
91	Banshailang Khongsngi	2	3	5	4	1	5	√
92	Ringlang Nongrum	3	3	6	5	1	6	√
93	Philinton Nongkynrih	3	3	6	4	2	6	√
94	Trit Nongrum	6	2	8	4	5	9	√
95	Thram Nongsteng	3	2	5	4	1	5	√
96	Birel Kharumnuid	3	3	6	5	1	6	√
97	Theibhamon Rynjah	5	4	9	5	4	9	√
98	Esson Khongsngi	3	1	4	4	x	4	√
99	Ridarkos Nongrum	2	3	5	4	1	5	√
100	Medra Nongsteng	1	2	3	2	1	3	√
101	Kodslin Rynjah	1	5	6	5	1	6	√
102	Hien Nongsteng	1	3	4	3	1	4	√

103	Jalanta Nongrum	3	3	6	6	0	6	√
104	Pharnailang Kongsngi	1	3	4	3	1	4	√
105	Brilian Nonssteng		1	1	x	0	1	√
106	Unita Nonsteng	2	2	4	3	1	4	√
107	Phrangbok Nongrum	1		1	x	1	1	√
108	Thwenlibon Nongrum	1	1	2	1	1	2	√
109	Rishmalin Nongrum	2	1	3	2	x	2	√
110	Markel Diengdoh	8	4	12	10	2	12	√
111	Swilin Nongrum	3	5	8	7	1	8	√
112	Aiboklang Rynjah	2	4	6	5	1	6	√
113	Snatt Nongsteng		2	2	1	1	2	√
114	Phrilin Nongsteng	1	2	3	2	1	3	√
115	Koid Rynjah	3	3	6	4	2	6	√
116	Dilmani Nongkynrih	4	2	6	4	2	6	√
117	Phrik Nongkynrih	5	1	6	5	1	6	√
118	Togensing Nongkynrih	4	1	5	4	1	5	√
119	Miouststar nongrum	4	3	7	6	1	7	√
120	Bosten Nongspung	1	1	2	1	1	2	√
121	Beim Khonsngi	3	3	6	0	6	6	√
122	Dralin Rynjah	3	3	3	3	3	6	√
123	Misto Rynjah	1		1	x	1	1	√
124	Buhep Rynjah	1		1	x	1	1	√
125	Pling Nongkynrih	1	1	2	z	1	1	√
126	Prip Rynjah	5	4	9	7	2	9	√
127	Ham Nongrum	1	2	3	1	2	3	√
128	Damansing Nongkynrih	3	2	5	4	1	5	√
129	Bansuk Buhphang	3	1	4	2	2	4	√
130	Marjop Rynjah	3	3	6	4	2	6	√
131	Lamida Pyngrope	8	2	10	8	2	110	√
132	Iwissina Rynjah	4	3	7	6	1	7	√
133	Marshan Shabong	2	2	4	3	1	4	√
134	Liverson Rynjah	2	4	6	5	1	6	√
135	Pharmission Khongsngi	2	3	5	4	1	5	√
136	Thrin Rynjahs		5	5	3	2	5	√
137	Triaki Nongkhlaw	1	1	2	1	1	2	√
138	Meples Nongrum	2	2	4	3	1	4	√

139	Okwi Nongkynrih	4	4	8	6	2	88	√
140	Shelkumar Nongsteng	6	6	12	10	2	12	√
141	Watsing Warjri	6	4	10	8	2	10	√
142	Ribha Rynjah	4	2	6	5	1	6	√
143	Drailang Khongsni	3	4	7	6	1	7	√
144	Kiam Rynjah	3	1	4	2	2	4	√
145	Bhalang Rynjah	1	3	4	2	2	4	√
446	Prossision Pyngrope	3	3	6	5	1	6	√
147	Dathewmon Rynjah	3	2	5	4	1	5	√
148	Labil Rynjah	1	5	6	5	1	6	√
149	Jeror Nongkynrih	7	5	12	9	3	12	√
150	Swenstar Khmah	6	4	10	8	2	10	√
151	Risidian Nongkynrih	5	3	8	6	2	8	√
152	Koplin Rynjah	2	5	7	7	0	7	√
153	Bashanbor Myllem	1	2	3	2	1	3	√
154	Lensing Nongrum	4	2	6	4	2	6	√
155	Phibalalmphang Rynjah	2	1	3	2	1	3	√
156	Tobarsing Myllem	1	3	4	3	1	4	√
157	Phar Rynjah		2	2	1	1	2	√
158	Kyshanlang Rywtah	2	2	4	3	1	4	√
159	Atitijingshai Rynjah	1	1	2	1	1	2	√
160	Ewbih Rynhaj	2	5	7	6	1	7	√
161	Lomasstong Rynjah	2	1	3	1	2	3	√
162	Leit Rynjah	5	5	10	8	2	10	√
163	Teibor Muthoh	6	4	10	8	2	10	√
164	SeinKupar Rynjah	3	2	5	4	1	5	√
165	Khlainborlang Kharbudon	3	5	8	7	1	8	√
166	Plit Rynja	6	5	11	9	2	11	√
167	Niar Khongsngi	4	5	9	8	1	9	√
168	Iakmenlang Myllem	1	3	4	4	0	4	√
169	Sirelna Nongrum	4	2	6	5	1	6	√
170	Bistilin Nongrum	2	2	4	3	1	4	√
171	Triatsila Khongsngi	4	4	8	6	2	8	√
172	Nankos Nongkynrih	5	5	10	8	2	10	√
173	Alwin Pyngrope	3	2	5	3	2	5	√
174	Thionis Khongsngi	1	2	3	2	1	3	√

175	Wo Khongsngi	1	x	1	x	1	1	√
176	Drap Khongsngi	3	4	7	6	1	7	√
177	Sengsing Khongsngi	4	2	6	3	3	6	√
178	Banabas Khongsngi	3	3	6	3	3	6	√
179	Durka Thapa	2	2	4	4	x	4	√
180	Kongdeng Nongkynrih	x	1	1	x	1	1	√
181	Dapmon Khongsngi	x	2	2	x	2	2	√
182	Stonli Khongsngi	4	3	7	5	2	7	√
183	Krat Rynjah	3	3	6	5	1	6	√
184	Heralsing Khongsngi	7	4	11	9	2	11	√
185	Jran Khongsngi	4	1	5	4	1	5	√
186	Markos Khongsngi	5	3	8	7	1	8	√
187	Breswel Rynjah	5	6	11	8	3	11	√
188	Jriek Nongkynrih	1	4	5	4	1	5	√
189	Marsalin Kharumnuid	2	2	4	4	x	4	√
190	Isrel Khongsngi	7	1	8	7	1	8	√
191	Horstarson Lyndem	6	2	8	5	3	8	√
192	Phriang Nongkynrih	5	4	9	7	2	9	√
193	Dishanlang Khongsngi	5	4	9	7	2	9	√
194	NilsonNongkynrih	3	4	7	5	2	7	√
195	Sambor Nongkynrih	2	1	3	1	2	3	√
196	Bainstar Nonsstang	3	8	11	10	1	11	√
197	Tarjer Khongjee	3	7	10	8	2	10	√
198	Belin Nongkynrih	3	4	7	5	2	7	√
199	Karphrang Nongstang	3	2	5	3	2	5	√
200	Worning Dohling	4	5	9	7	2	9	√
201	Ryngkatlang Nongkynrih	5	3	8	7	1	8	√
202	Lawren Nongkynrih	6	3	9	6	3	9	√
203	Tilora Rynjah	1	1	2	1	1	2	√
204	Kodring Rynjah	6	2	8	6	2	8	√
205	Khraw Nongkynrih	2	3	5	4	1	5	√
206	Ehborlang Pyngrope	2	4	6	2	3	5	√
207	Platsing Rynjah	2	2	4	2	2	4	√
208	Synran Sohthiang	3	1	4	3	1	4	√
209	Jornor Khmah	4	4	8	2	5	7	√
210	Jar Kharkongngor	2	1	3	2	1	3	√

211	Mikstarson Nongkynrih	2	1	3	x	3	3	√
212	Majestar Mawthoh	3	2	5	2	3	3	√
213	Swal Nongkynrih	3	5	8	2	6	8	√
214	Bamon kari Khongsngi	4	3	7	5	2	7	√
215	Phrilian Nongkynrih	4	4	8	8	x	8	√
216	Balumlang Rynjah	1	2	3	2	1	3	√
217	Sanbor shabong	2	3	5	2	3	5	√
218	Pidal Rynjah	3	2	5	5	x	5	√
219	Daborson Rynjah	4	5	9	8	1	9	√
220	Shemborlang Nongstang	4	3	7	5	2	7	√
221	Wansahanbor Rynjah	1	4	5	4	1	5	√
222	Kossing Rynjah	2	2	4	4	x	4	√
223	Sorshor khongjee	1	3	4	3	1	4	√
224	Tipmon Rynjah	x	2	2	2	x	2	√
225	Pynshlur Nongstang	3	8	11	11	x	11	√
226	Pyndapmon Rynjah	2	2	4	3	1	4	√
227	MedilNongkynrih	1	4	5	4	1	5	√
228	Kynpham Pyngrope	2	4	6	6	x	6	√
229	Bidingson Pyngrope	3	1	4	4	x	4	√
230	Jonathan Nongkynrih	3	3	6	5	1	6	√
231	Banrishisha Mylliern	3	2	5	5	x	5	√
232	Elbinus K. Syntiew	2	6	8	6	2	8	√
233	Iohbor Riwar	2	2	4	4	x	4	√
234	Wanles Nongrum	3	2	5	4	1	5	√
235	Pynshaiborlang Nongkynrih	1	2	3	x	3	3	√
236	Niborsing Nongkynrih	4	2	6	4	2	6	√
237	Basharai Mylliern	1	2	3	2	x	2	√
238	Maitihun Rynjah		2	2	2	x	2	√
239	Asnor Nongkynrih	7	2	9	8	1	9	√
240	Bandariti Rynjah	3	1	4	3	1	4	√
241	Banrilang Nongkynrih	2	3	5	4	1	5	√
242	Banrilin Nongkynrih	1	1	2	2	0	2	√
243	Bah Bah Rynjah	1	1	2	2	0	2	√
244	Albeststone Rynjah	2	2	4	2	2	4	√
245	Jun Nongsteng	1	1	2	2	0	2	√
256	Elbin rynjah	1	2	3	2	1	3	√

247	Nik Nongsteng	1	1	2	2	0	2	√
248	Bedingson Nongrum	4	1	5	2	3	5	√
249	Kyntiew Nongkhlaw	3	1	4	1	3	4	√
250	Saralin Rynjah	2	1	3	1	2	3	√
251	Ibanrishisha Nongrum	1	1	2	2	0	2	√
252	Balentina Nongkynrih	1	1	2	2	0	2	√
253	Jenes Rynjah	1	2	3	2	1	3	√
254	Iengskhem Nongkynrih	1	1	2	2	0	2	√
255	Swin Khongsngi	3	1	4	3	1	4	√

ANNEXURE III
COST ESTIMATES

MODEL ESTIMATE FOR CONSTRUCTION OF SPRING TAPPED CHAMBER

(Rate Based as per MPWD scheduled or rates for Road and Bridges for Eastern circle, Shillong for the year 2008-09)

SI no	PARTICULARS	NO	DIMENSION "m"	"m"	"m"	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1/6(b)	Earthwork in excavation for foundation of Hume Pipe culvert, slab drain, retaining wall, face wall upto the desired founding level, including dewatering and bailing out of water in order to keep the foundation dry, protecting the sides of foundation by adequate shoring scaffolding. The foundation is levelled both longitudinally and transversely including removal of spoil upto 30.00m and all lifts.								
	DRINKING WELL	2	4.20	3	1.8	45.4	cu.m		
		2	4.20	0.3	0.3	0.76	cu.m		
		2	3	0.3	0.3	0.54	cu.m		
	Washing Platform	1	2	1.6	0.2	0.64	cu.m		
			TOTAL			47.3	cu.m	93	4398.53
2/26	Providing cement concrete work in proportion 1;4;8 with hard broken stones aggregates 40mm down graded, including necessary carriage of stone and sand within a distance of 200m and curing , complete as directed								
	DRINKING WELL	2	4.2	0.3	0.1	0.25	cu.m		
		2	3	0.3	0.1	0.18	cu.m		
			TOTAL			0.43	cu.m	2136	922.75

3/20(a)	Providing regular stone masonry in returning walls,breast walls and wing walls with hammer dressed or blunt chisel dressed stones of heavy section (size not less than 25cmX 25cmX 30cm) with proper key stones of size not less than 25cmx 25cm x75cm long in cement mortar 1:6 including carriage of stones within 200m.	1	4.2	0.3	3.15	3.97	cu.m		
		1	3	0.3	2.65	2.39	cu.m		
		2	3	4.0	0.3	7.2	cu.m		
			TOTAL			13.6	cu.m	1060	14367.24
4/41(a)	Providing shuttering with dressed planks not less than 25mm thick properly joint including battens, prop to the proper level and removing the same after the concrete hardened.								
	D/WELL	1	4.8	4.2		20.2	Sqm		
		1	18	0.1		1.8	Sqm		
	Washing Platform	1	5.2	0.1		0.52	Sqm		
			TOTAL			22.5	Sqm	295	6631.6
5/42(b)	Supplying, fitting, fixing including bending, cranking and placing in position as per approved design and drawings	no	L	Wt					
		33	4.2	0.39		0.54	Qtl		
		29	4.8	0.62		0.86	Qtl		
			TOTAL			0.86	Qtl	5174	4465.37
6/24	Providing stone pitching with one man size boulders not less than 25cm x25cm x30cm long including filling the interstices with spoils and carriage of stone within distance of 200m.								
	DRINKING WELL	1	3.6	3	0.25	2.7	cu.m		
	Washing Platform	1	2	1.6	0.2	0.64	cu.m		
			TOTAL			3.34	cu.m	512	1710.08

7/29	Providing cement concrete work in proportion 1:2:4 corresponding to M15 .Stone aggregates 20mm down graded, including necessary carriage of stone and sand within a distance of 200m and curing , complete as directed slab	1	4.8	4.2	0.1	2.02	sq.m		
			TOTAL			2.02	sq.m	2880	5806.08
8/28	Providing cement concrete work in abutments, wing walls and return walls in proportion 1:3:6 with hard broken stone aggregates 40mm down graded including necessary carriage of stone and sand within a distance of 200mm.								
	Washing platform	1	2	1.6	0.1	0.32	cu.m		
			TOTAL			0.32	cu.m	2344	750.08
9/27(b)	Providing 12mm thick cement plastering including cleaning surface, curing, carriage of sand within 200m.								
	DRINKING WELL	2	4.20	3.15		26.5	Sqm		
		2	4.20	2.65		22.3	Sqm		
		4	3	4.0		48	Sqm		
	Washing Platform	1	2	1.6		3.2	Sqm		
		1	5.2	0.1		0.52	Sqm		
	slab	2	4.8	4.2		40.3	Sqm		
		1	18	0.1		1.8	Sqm		
			TOTAL			143	Sqm	92	13115.52
									52167.25
								Say Rs. 52,000.00	

Rupees Fifty two Thousand Only.

MODEL ESTIMATE FOR CONSTRUCTION OF CONSERVATION POND

(Rate Based as per MPWD scheduled or rates for Road and Bridges for Eastern circle, Shillong for the year 2008-09)

SI no	PARTICULARS	NO	DIMENSION			QTY	UNIT	RATE	AMOUNT (RS)
			L	B	H				
1/4 (b)	Earthwork in excavation for foundation for abutment and wing walls of bridges and culvert, upto the founding level including dewatering, bailing out of water and protecting the sides of foundation by adequate shoring, scaffolding. The foundation is leveled both longitudinally and transversely as directed	1	24	1.3	1	31.2	CU.M		
			TOTAL			31.2	CU.M	152	4742.40
2/26	Providing cement concrete work in proportion 1;4;8 with hard broken stones aggregates 40mm down graded, including necessary carriage of stone and sand within a distance of 200m and curing , complete as directed	1	24	1.3	0.1	3.12	CU.M		
			TOTAL			3.12	CU.M	2136	6664.32
3/41(a)	Providing shuttering with dressed planks not less than 25mm thick properly joined including battens, props to the proper level and removing of the same after the concrete is hardened complete as directed	1	24	2.5		60	SQ.M		
	Less for spillway	-2	4	0.3		-2.4	SQ.M		
			TOTAL			57.6	SQ.M	295	16992.00
4/28	Providing cement concrete work in proportion 1:3:6 with hard broken stones aggregates 40mm down graded, including necessary carriage of stone and sand within a distance of 200m and curing , complete as directed	1	24	1.3	0.15	4.68	CU.M		
		1	24	2.5	0.15	9	CU.M		
	Less for spillway	-1	4	0.3	0.15	-0.18	CU.M		
			TOTAL			13.50	CU.M	2344	31644.00
5/22(a)	Providing regular stone masonry in retaining walls, breast walls, and wing walls with hammer dressed or blunt chisel dressed stones of heavy section (size not less than 25 cm x25cm x30 cm) with proper key stones not less than 25cmx25cmx75cm, in cement mortar1;6 including carriages of stones within 200m and filling in trenches and providing weep hole at 1;2 to 1:5 apart complete as directed								

		1	24	1.15	0.8	22.08	CU.M		
		1	24	0.725	2.5	43.5	CU.M		
	Less for spillway	-1	4	0.3	0.3	-0.36	CU.M		
		TOTAL				65.22	CU.M	1288	84003.36
6/27	Providing 12mm thick cement plastering including cleaing the surface, curing carriage of sand within 200m complete								
		1	24	2.5		60	SQ.M		
		1	24.6	0.45		11.07	SQ.M		
		2	20	0.3		12	SQ.M		
		TOTAL				83.07	SQ.M	92	7642.44
		GRAND TOTAL							151688.52
						SAY	Rs 1,51,700/-		
	(RUPEES ONE LAKH FIFTY ONE THOUSAND SEVEN HUNDRED NINETY ONLY)								

MODEL ESTIMATE FOR CONSTRUCTION OF CC DAM FOR IRRIGATION PURPOSE

(Rate Based as per MPWD scheduled or rates for Road and Bridges for Eastern circle, Shillong for the year 2008-09)

Sl no	PARTICULARS	NO	DIMENSION			QTY	UNIT	RATE	AMOUNT (RS)
			L	B	H				
1/4 (b)	Earthwork in excavation for foundation for abutment and wing walls of bridges and culvert, upto the founding level including dewatering, bailing out of water and protecting the sides of foundation by adequate shoring, scaffolding. The foundation is leveled both longitudinally and transversely as directed DAM	1	9	1.3	1	11.7	CU.M		
		TOTAL				11.7	CU.M	152	1778.40
2/5(b)	Earthwork in excavation for abutment and wing walls of bridges and culvert upto the desired founding level including dewatering and bailing out of water and protecting the foundation sides by adequate shoring, scaffolding including levelling the foundation longitudinally and transversely and removal of spoil upto 30m and all lifts. soft and laminated rock or medium shale WINGWALLS APRON	2	5	1	0.9	9	CU.M		
		1	9	2	0.35	6.3	CU.M		
		TOTAL				15.3	CU.M	121	1851.30
3/26	Providing cement concrete work in proportion 1;4;8 with hard broken stones aggregates 40mm down graded, including necessary carriage of stone and sand within a distance of 200m and curing , complete as directed DAM WINGWALLS	1	9	1.3	0.1	1.17	CU.M		
		2	5	1	0.1	1	CU.M		
		TOTAL				2.17	CU.M	2136	4635.12
4/41(a)	Providing shuttering with dressed planks not less than 25mm thick properly joined including battens, props to the proper level and removing of the same after the concrete is hardened complete as directed DAM LESS FOR SPILLWAY APRON	1	9	2.5		22.5	SQ.M		
		1	9	2.66		23.94	SQ.M		
		-2	3	0.3		-1.8	SQ.M		
		1	13	0.1		1.3	SQ.M		

		TOTAL				45.94	SQ.M	295	13552.30
5/28	Providing cement concrete work in proportion 1:3:6 with hard broken stones aggregates 40mm down graded, including necessary carriage of stone and sand within a distance of 200m and curing , complete as directed DAM LESS FOR SPILLWAY APRON	1	9	1.3	0.9	10.53	CU.M		
		1	9	0.875	2.5	19.6875	CU.M		
		-1	3	0.45	0.3	-0.405	CU.M		
		1	9	2	0.1	1.8	CU.M		
		TOTAL				31.61	CU.M	2344	74099.70
6/20(a)	Providing regular stone masonry in retaining walls, breast walls, and wing walls with hammer dressed or blunt chisel dressed stones of heavy section (size not less than 25 cm x25cm x30 cm) with proper key stones not less than 25cmx25cmx75cm, in cement mortar1;6 including carriages of stones within 200m and filling in trenches and providing weep hole at 1;2 to 1:5 apart complete as directed WING WALLS	2	5	1	0.8	8	CU.M		
		2	5	0.75	2.5	18.75	CU.M		
		TOTAL				26.75	CU.M	1060	28355.00
7/24	Providing stone pitching with one man size boulders not less than 25cm x 25cm x 30 cm including filling the interstices with spoils and carriages of stone within a distance of 200m completed as directed APRON	1	9	2	0.35	6.3	CU.M		
		TOTAL				6.3	CU.M	512	3225.60
8/27	Providing 12mm thick cement plastering including cleaing the surface, curing carriage of sand within 200m complete DAM LESS FOR SPILLWAY APRON WINGWALLS	1	9	2.5		22.5	SQ.M		
		1	9	2.66		23.94	SQ.M		
		-2	3	0.3		-1.8	SQ.M		
		1	9.6	0.45		4.32	SQ.M		
		1	9	2		18	SQ.M		
		1	13	0.1		1.3	SQ.M		
		2	5	2.55		25.5	SQ.M		
		2	5	0.5		5	SQ.M		

		TOTAL	98.76	SQ.M	92	9085.92
		GRAND TOTAL				136583.34

(RUPEES ONE LAKH THIRTY SIX THOUSAND ONLY)

SAY Rs 1,36,000

MODEL NORMS PER HECTARE FOR AGRO – HORTICULTURE
(INTEGRATED WATERSHED MANAGEMENT PROGRAMME)
(Rate as per PWD, SOR for R&B 2008 – 2009)

Spacing - 8m x 6.3m

Plant Density - 200 Nos.

A.	<u>Preliminary works</u>		
I.	Site clearance		
	3 mandays @ Rs.100/- per manday	-	Rs. 300.00
	II. Pit digging (pit size 0.45m x 0.45m x 0.45m)		
	200 Nos. @ Rs.5/- each	-	<u>Rs.1000.00</u>
	Total	-	Rs.1300.00
B.	<u>First year Planting</u>		
	I. Cost of planting materials		
	200 Nos. @ Rs.10/- each	-	Rs.2000.00
	II. Cost of planting 200 Nos. @ Rs. 3/- each	-	Rs. 600.00
	III. Weeding two times		
	20 mandays @ Rs.100/- per manday	-	<u>Rs.2000.00</u>
	Total	-	Rs.4600.00
C.	<u>Second year Planting</u>		
	I. Refilling vacancy (10%)	-	Rs. 360.00
	II. Weeding two times		
	20 mandays @ Rs.100/- per manday	-	Rs.2000.00
	III Plant protection measures including		
	cost of chemical	-	<u>Rs. 340.00</u>
	Total	-	Rs.2700.00
	Grand Total A+B+C = Rs.1300.00 + Rs.4600.00 + Rs.2700.00 =		Rs.8600.00

(Rupees Eight thousand six hundred) only.

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

Spacing 6m x 5.5m

Plant Density – 300 Nos.

A. Preliminary works

J. Jungle clearance etc.

5 mandays @ Rs.100/- per manday - Rs. 500.00

II. Pit digging (pit size 0.30m x 0.30m x 0.30m)

300 Nos. @ Rs.4/- each - Rs. 1200.00

Total - Rs. 1700.00

B. First year Planting

I. Cost of planting materials

300 Nos. @ Rs.8/- each - Rs. 2400.00

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

- Rs. 600.00

III. Weeding two times 20 mandays

@ Rs.100/- per manday - Rs. 2000.00

IV. Fire protection measures

5 mandays @ Rs.100/- per manday - Rs. 500.00

Total - Rs. 5500.00

C. Second year Planting

I. Vacancy refilling (10%)

- Rs. 400.00

II. Weeding two times 20 mandays

@ Rs.100/- per manday - Rs. 2000.00

III. Fire protection measures

5 mandays @ Rs.100/- per manday

	-	<u>Rs. 500.00</u>
Total	-	Rs. 2900.00

Grand Total A+B+C = Rs.1700.00 + Rs.5500.00 + Rs.2900.00 = Rs.10100.00

(Rupees Ten thousand one hundred) only.

MODEL NORMS PER HECTARE FOR IMPROVEMENT OF DEGRADED FOREST
(INTEGRATED WATERSHED MANAGEMENT PROGRAMME)
(Rate as per PWD, SOR for R&B 2008 – 2009)

A. <u>Preliminary works</u>			
K. Site clearance			
3 mandays @ Rs.100/- per manday	-	Rs.	300.00
II. Pit digging (pit size 0.30m x 0.30m x 0.30m)			
100 Nos. @ Rs.4/- each	-	<u>Rs.</u>	<u>400.00</u>
Total	-	Rs.	700.00
B. <u>First year Planting</u>			
I. Cost of planting materials			
100 Nos. @ Rs.8/- each	-	Rs.	800.00
II. Cost of planting 100 Nos. @ Rs. 2/- each	-	Rs.	200.00
III. Round Weeding around the plant four times			
5 mandays @ Rs.100/- per manday	-	Rs.	500.00
IV. Fire protection measures			
4 mandays @ Rs.100/- per manday	-	<u>Rs.</u>	<u>400.00</u>
Total	-	Rs.	1900.00
C. <u>Second year Planting</u>			
I. Refilling vacancy (10%)	-	Rs.	100.00
III. Round Weeding around the plant four times			
5 mandays @ Rs.100/- per manday	-	Rs.	500.00
III. Fire protection measures			
4 mandays @ Rs.100/- per manday	-	<u>Rs.</u>	<u>400.00</u>
Total	-	<u>Rs.</u>	<u>1000.00</u>
Grand Total A+B+C = Rs.700.00 + Rs.1900.00 + Rs.1000.00 =		Rs.	3600.00
(Rupees Three thousand six hundred) only.			

PARTICIPATORY RURAL APPRAISAL



DETAILED SURVEY USING GPS



ENTRY POINT ACTIVITIES

