

# **DETAILED PROJECT REPORT**

## **WAH THYLLONG INTEGRATED WATERSHED MANAGEMENT PROJECT**

**IWMP – VII**

**2010 – 2011**

**PYNURSLA C& RD BLOCK**

**EAST KHASI HILLS DISTRICT**

**MEGHALAYA**



### **SUMMARY**

Name of the State	:	Meghalaya
Name of the District	:	East Khasi Hills District
Name of the C&RD Block	:	Pynursla
Name of the Villages	:	(i) Nohwet (ii) Riwai (iii) Nongsohphan (iv) Nongthymmai (v)Thiepskai
Name of the C&RD Block	:	East Khasi Hills – IWMP – VII
Total Geographical Area	:	1460 Ha
Total Treatment Area	:	1000 Ha
Total Project Cost	:	₹150 lakhs
Project Duration	:	5 Years
Project Implementing Agency	:	Soil & Water Conservation Territorial Division, Shillong.



## Location Map

Meghalaya



East Khasi Hills District



Wah Tyllong Watershed



## TABLE OF CONTENTS

CHAPTER I INTRODUCTION AND BACKGROUND .....	4
CHAPTER II BASIC INFORMATION OF THE PROJECT AREA .....	7
CHAPTER III PROJECT PLANNING & INSTITUTION BUILDING .....	17
CHAPTER IV PROJECT ACTIVITIES .....	23
CHAPTER V PROJECT PHASING & BUDGETING .....	38
CHAPTER VI CAPACITY BUILDING .....	53
CHAPTER VII EXPECTED OUTCOME .....	57
ANNEXURE I MAPS .....	76
ANNEXURE II SOCIO-ECONOMIC SURVEY DETAILS .....	83
ANNEXURE III COST ESTIMATES .....	106
ANNEXURE IV MoA, SUB COMMITTEE DETAILS ETC. ....	143

# **CHAPTER I**

## **INTRODUCTION AND BACKGROUND**

# CHAPTER I

## INTRODUCTION AND BACKGROUND

### 1.1 Project Background:

Wah Thyllong Watershed (IWMP-VII) project is located in Pynursla C&RD Block, between Latitudes of  $25^{\circ} 15'50''$  and  $25^{\circ} 10'48''$  N and Longitudes of  $91^{\circ} 54'$  and  $91^{\circ} 55'$  E, of East Khasi Hills District of Meghalaya. The project is a cluster of 5 villages drained by the Wah Thyllong River which is about 9.13 Km long, and its tributaries flowing in a north to south direction. The total area is 1460 Ha, out of which, 1000 Hais to be treated under the Integrated Watershed Management Programme (IWMP).

The Project area is located at a distance of about 80 km from Shillong, the District Headquarters and also the State Capital. The five villages covered under the project are:-

- (i) **Nohwet**
- (ii) **Riwai**
- (iii) **Nongsohphan**
- (iv) **Nongthymmai**
- (v) **Thiepskai**



## **1.2 Micro-watershed Information:**

The micro-watershed code is **3C1B5i2a** as codified by the North East Space Application Centre (NESAC). The total area of the micro-watershed is 1460 Ha, out of which, 1000 Ha is to be treated under the Integrated Watershed Management Programme (IWMP).

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

The micro-watershed **3C1B5i2a** is located on the southern slopes of the deep gorges of the lower plateau region in continuation with the Central (Shillong) Plateau. Three of the five villages do not have any road connectivity. Most of the people in the watershed are labourers and marginal farmers and 380 households are below the poverty line, which is about 65 % approximately of the total households.

Even though the area receives ample rainfall during the monsoons, there is acute shortage of water during the dry seasons and the villagers have to travel long distances for fetching water even for domestic use.

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

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

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

## **CHAPTER II**

### **BASIC INFORMATION OF THE PROJECT AREA**

## CHAPTER II

### BASIC INFORMATION OF THE PROJECT AREA

#### 2.1 Location:

The Project area is located within the area of 3 Rajj or 3 Sordar Of Liting, Rangnah and Lyngkhat under Pynursla C&RD Block, East Khasi Hills District. It is situated at a distance of about 80 km from Shillong, the District Headquarters, which is also the State Capital. The geographical location is between 91°54' to 91°55' E Longitude and 25° 11' to 25° 15' N Latitude. There are 5 villages within the Watershed which are as follows –

**(i)Nohwet (ii) Riwai (iii) Nongsohphan (iv) Nongthymmai (v)Thiepskai**

At present, these five villages are not connected by good motorable road.

#### 2.2 Physiography:

The physiography of the micro-watershed is highly undulating with moderate steep to steep slope. The altitude ranges from a minimum of 40m to a high of 800m above mean sea level. In the lower reaches (valley lands) the slope ranges from 10% to 20%, however, in the middle and upper reaches it is greater than 35 %, and can reach up to 75%.

**Table 2.1: Physiographic details**

Elevation (metres)	Slope Range (%)	Order of watershed Sub/Micro-watershed	Major streams	Topography
40 m to 800 m	10% to 75 %	Micro Watershed	Wah Thyllong	Undulating Slope

**2.3 Drainage:** Wah Thyllong is fed by a network of rivulets and tributaries, a drainage pattern controlled by the structure faults, flowing in the south direction and entering Bangladesh. The gorges scaped by the river in the catchment are the result of intensive headward erosion. The river has strongly seasonal discharge due to extreme monsoon rainfall but remain dry during winter months.

**2.4 Soil:** Soil Texture is loamy sand. Soils are excessively drained and moderately rapid permeability. These soils are deep; occur on moderate steep slope hills with severe erosion hazards. Vegetation cover is required to check soil loss.

**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	Name of District	Name of Projects	Cause	Types of erosion	Area affected (ha)	Run-off (mm/ year)	Average soil loss (Tonnes/ ha/ year)
1	Meghalaya	East Khasi Hills	East Khasi Hills – IWMP VII	Water erosion:				
				a	Sheet	1000	2570-3200	10.50 – 15.00
				b	Rill		2700-3200	
				c	Gully		2700-3200	
				Sub total		1000	2700-3200	10.50 – 15.00
				Wind erosion		Nil	Nil	Nil

**2.5 Climate:** The area in the foothills or low lying areas and mid-slopes are hot in summer and remain warm throughout the winter. The area on the higher reaches is warm during summer and cold during winter. The average annual rainfall is 5539 mm.

**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 300M	1460 Ha	East Khasi Hills	East Khasi Hills – IWMP – V11	Texture is loamy sand. Soils are excessively drained and moderately rapid permeability. These soils are deep, occur on moderately steep hill slopes with severe erosion hazards. Vegetation cover is required to check soil loss.	1460 Ha	5539 mm	Betel nut	50
									Betel leaf	20
									Oranges	20
									Jack Fruits	20
									Litchi	20
									Broom stick	30
									Bay Leaf	20
									Black pepper	30
								<b>Total</b>		<b>210 Ha</b>

**2.1 Agriculture:** Villagers hardly grow any agricultural crops except in the upper reaches where jhum cultivation is practised. Horticultural crops are widely grown in these villages. The principal horticultural crops grown are betel nut, betel leaf, black pepper, broomstick, which contribute to the income of the people.

Fruit crops are well suited in the lower reaches which include *Elaeagnus latifolia*, orange, pineapple, jackfruit, and litchi.

Table 2.4: Crop yield and production

Crops	Area (ha)	Average Yield (Qtl) per ha.	Total Production (Qtl.)
Millet	25	10	250
Soyabean	25	10	250
Yam	20	18	360
Jack fruit/pineapple	20	80	1600
Litchi etc	20	60	1200
Betel nut	50	9	450
Betel leaf	20	25	500
Black Pepper	30	6	180
Oranges	20	40	800
Bay Leaf	20	20	400

**2.2 Natural Vegetation:** The tree species common to the watershed area includes - *Quercus* spp. *Castanopsis* spp. *Toona ciliata*, *Albizia* spp. *Aporosa* spp. *Bahunia variegata*, *Duabanga* spp. *Michelia champaca* and *Ficus* spp. However, due to jhum cultivation the forest cover of the area has reduced considerably.

**2.3 Socio-Economic Profile:** Economically, the area is one of the backward areas in the district. The main reason is due to the absence of good road communication, primitive way of agricultural practices like jhumming and the difficult terrain of the area.

Demographic Status: The total households in the watershed project is 586 nos with a total population of 3123, of which 1564 are male and 1559 are female. The detail of the household in each of the villages in the watershed project is as follows:

- (i) **Nohwet -385 nos**
- (ii) **Riwai –81 nos**
- (iii) **Nongsohphan -82 nos**
- (iv) **Nongthymmai -18 nos**
- (v) **Thiepskai–20 nos**

Infrastructure facilities:

- 2.1.1 *Roads:* All the villages within the Project Area are not connected by good road. The Project area depends entirely on the kutcha road connected to Pynursla.
- 2.1.2 *School:* There are only 5 L.P Schools and one Higher Secondary School within the Project Area run either by the Mission or by the Government.
- 2.1.3 *Electricity:* Connections have been provided but some villages are yet to have electricity.
- 2.1.4 *Health:* One Public Health Centre at Pongtung and Community Health Centre at Pynursla.
- 2.1.5 *Water Supply:* Drinking water supply has been provided by the PHE Deptt. . However, during lean season the entire population has to depend on springs available in the area as the supply is not sufficient to meet the daily requirement.

2.1.6 *Market:* There is a weekly market held once in a week at Pynursla. 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 III	(i)	No. of villages connected to the main road by an all-weather road.	All villages are at 1 hr to 2 hrs walking from the motorable junction			
		(ii)	No. of village provided with electricity	All villages are electrified			
		(iii)	No. of households without access to drinking water	140 nos.			
		(iv)	No. of educational institutions: Primary (P)/ Secondary (S)/ Higher Secondary (HS)/ Vocational institution (VI)	(P)	(S)	(HS)	(VI)
				5 Nos.		1 No	-
		(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)	(S)	(PA)	(O)
				Nil	Nil	Nil	Nil
		(xiii)	No. of villages with access to Aganwadi Centres	2 Nos.			
		(xiv)	Any other facilities with no. of villages (please specify)	Nil			



**2.4 Livestock:** there are only 3 kinds of livestock farming being farmed in the area viz. Piggery, Poultry and Bee-Keeping or Apiculture.

**Table 2.6: Existing livestock population**

Type of Animal	Population
Piggery	492
Poultry	1757
Apiculture in unit	3
	2252

**2.5 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 VII	(i) Large	-	-			
		(ii) Small	10	-	5 Ha		5 Ha
		(iii) Marginal	220	65	5 Ha	240Ha	245 Ha
		(iv) Landless	355	315	-	-	-
		Sub - Total	585	380		240Ha	250Ha

**Table 2.5: Common Property Resources in the Project Area**

1	2	3	4				5			
Name of District	Name of the Projects	CPR Particulars	Total Area (ha) Area owned/ In possession of				Area available for treatment (ha)			
			Pvt. Person	Govt. (specify deptt.)	PRI	Any other (Community)	Pvt. Person	Govt. (specify deptt.)	PRI	Any other (Community)
East Khasi Hills	East Khasi Hills – IWMP VII	(i) Wasteland/ degraded land	230Ha	-		260 Ha	180 Ha	-	-	150Ha
		(ii) Pastures	-	-	-	-	-	-	-	-
		(iii) Private Agriculture land	830 Ha	-	-	-	670 Ha			
		(iv) Village woodlot	-	-	-	-				
		(v) Forest	20Ha	-	-	60 Ha				
		(vi) Village Ponds/ Tanks	-	-	-	-				
		(vii) Community Buildings	-	5 nos.	-					
		(viii) Weekly Markets	-	-	-	Pynursla				
		(ix) Permanent Markets	-	-	-	Pynursla				
		(x) Temples/ Places of worship	-	-	-	Church- 2 nos				
		(xi) Built up,w/bodies & rocky areas,gorges etc		-	-	60 Ha				
		<b>Total</b>	1080Ha	-	-	<b>380Ha</b>	<b>850 Ha</b>	-	-	<b>150 Ha</b>

**2.6 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	=	14 Ha
b) Water bodies-River/Stream-Perennial	=	11 Ha
c) Horticultural land-crop land-kharif crop	=	330 Ha
d) Tree clad Area-close	=	620 Ha
e) Tree clad Area-open	=	450 Ha
f) Wastelands-barren Rocky/Stony waste	=	<u>35 Ha</u>
<b>Total</b>	<b>=</b>	<b>1460</b>

**2.7 Problems of the Area:** Soil Erosion is the main problem in the project area where acres of cultivated land are lost due to steep slopes of the area, slope saturation due to intense rainfall, sensitive soil type and creation of plantations without proper soil and water conservation measures. Apart from jhumming, another problem of the area is Broomstick cultivation where vast tracks of forest and abandoned Jhum areas are converted to Broomstick, a cultivation area which has further degraded the capability of the land as well as the discharge of the river. Mention may also be made here that the land use categorized as Tree-clad Area-open in the land use land cover map generated using Satellite Images of 2005 – 2006 are actually Broom-stick cultivation areas. In other words, unscientific method of cultivation has not only reduced the Jhum cycle, low crop yield but had adversely affected the ecological balance within the area. Road communication is another infrastructural problem that the area is facing where large volume crops like pineapple, jackfruits etc do not find their way into the market which has resulted in poor socio-economic status of the people. However, to control or to overcome the said problems an innovative approach has been formulated and documented in the Action Plan or the Treatment Plan the Detailed Project Report. The method of identification of the problems is through the Participatory Rural Appraisal Exercises conducted in all the villages within the Watershed.

**CHAPTER III**

**PROJECT PLANNING&INSTITUTION BUILDING**

## CHAPTER III

### PROJECT PLANNING&INSTITUTION BUILDING

#### 3.1 Scientific Planning

- i) Base Line Survey: To establish a benchmark for assessing the impact of any intervention (pre-project & post project) a baseline survey is essential. The baseline survey included household census & socio-economic survey by using structured and semi –structured questionnaires, bio-physical survey to identify and assess the status of natural resources in the project area.
- ii) Participatory Rural Appraisal: To further obtain information on the project area, the people, resources, various PRA techniques like resource mapping, social mapping, seasonal calendars, matrix ranking, Venn diagrams were used.
- iii) GIS & Remote Sensing: To facilitate the process of prioritization and planning Geographic Information System was use. The land use and land cover (LULC) maps were prepared by the North Eastern Space Application Centre (NESAC) using the LISS III images (2006). The activities were located on the field by using GPS and accordingly transferred to the maps on GIS platform.

**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
<b>A.</b>	<b>Planning</b>	
	Cluster approach	3
	Whether technical back-stopping for the project has been arranged? If yes, mention the name of the Institute.	Yes, NESAC, Nongsder
	Baseline survey	Yes
	Hydro-geological survey	No
	Contour mapping	No
	Participatory Net Planning (PNP)	No

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

### 3.2 Project Implementing Agency:

The PIA is the Soil & Water Conservation Territorial Division, 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 VII	(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@gmail.com

### 3.3 Institution Building

- i) **Watershed Committee (WC)** The Watershed Committee of the Lower Wah Thyllong, IWMP VII was constituted with the active involvement of the villagers with strong support of the Traditional Institutions (Village Durbar/Council). The Lower Wah Thyllong Watershed Committee has been registered under the Meghalay Societies Registration Act, 12 of 1983.

**Table 3.2: Details of Watershed Committees (WC):**

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Names of the Districts	Names of projects	Names of WCs	Date of Registration as a Society (dd/mm/yyyy)	Designation	M/F	SC	ST	SF	MF	LF	Land-less	UG	SHG	GP	Any other	Educational Qualification	Function/s assigned#
East Khasi Hills District	East Khasi Hills District – IWMP – VII	Wah Thyllong	04/04/2011	President	M	-	ST							1		Cl – v	A to I
				Secretary	F	-	ST								1	B.Tech	A to I
				Member	12 M	-	ST				1	1	2	8		Cl – VI	Do
				Member	3 F	-	ST					2	1			to x	Do
				Member													

- |    |  |    |  |
|----|--|----|--|
| A. | PNP and PRA                            | B. | Planning                               |
| C. | Maintenance of Accounts                | D. | Signing of cheques and making payments |
| E. | Supervision of construction activities | F. | Cost Estimation                        |
| G. | Verification & Measurement             | H. | Record of labour employed              |
| I. | Social Audit                           | J. | Any other (please specify).            |

## ii) Self Help Group

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



**Table 3.3: Details of Self Help Groups (SHGs) in the project 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 VII	-	-	4 nos	4 Nos	(i) Landless									
						(ii) SF									
						(iii) MF	22	15	37	22	15	37	NA	NA	NA
						(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**

## CHAPTER IV PROJECT ACTIVITIES

### 4.1 Preparatory Phase:

#### i) Entry Point Activities (EPA)

(Financial – ₹ 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 VII	₹6.0 Lakhs	Construction Washing Place cum bathing Place and Water tank	₹ 6.0	₹6.0	-	N.A	N.A

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 (₹In lakh)
East Khasi Hills	East Khasi Hills – IWMP VII	1 no. W/C 5 nos. Sub Watershed Committee at each benefiting village	6 nos.	–	Participatory Rural Appraisals	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											
					No	Beni fitte d Area (ha)	Stora ge capaci ty	Augmentation/ repair of existing structures				Construction of new structures				Total target			
								No	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 (m <sup>3</sup> )	Estima ted cost (in₹ lakhs)
1	Meg hala ya	East Khas i Hills	East Khasi Hills – IWMP VII	(i) Tank	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(ii) Pond				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(iii) Lake				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(iv) Check Dam				-	-	-	-	-	-	-	2 nos	90 Ha		10.14	2 nos.	90Ha		10.14	
(v) box terraces				-	-	-	-	-	-	-	-	90 Ha	-	18.00	-	90 Ha	-	18.00	
(vi) loose boulder c/bunds				-	-	-	-	-	-	-	-	142.5 Ha	-	10.69	-	142.5 Ha	-	10.69	
(vii)water Harvestin g (Water Storage)											2 nos	77.5 Ha		5.35	2 nos	77.5 Ha		5.35	
Total												4 nos	400Ha		₹44.18	4 nos.	400Ha		₹44.18

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 Benefitted area (ha) Col. (8-6)
No	Area irrigated (ha)	Storage capacity m3	Expenditure incurred (in lakhs)	No	Area(ha)	Storage capacity	Expenditure incurred (in lakhs)	Benefitted Area (ha)	Storage capacity	Estimated incurred		-
5 nos	-	101.5	₹6.0		-			-	101.5	6.00		
-	-	-	-		90 Ha		18.00	90 Ha		18.00		90 Ha
-	-	-	-	-	142.5 Ha		10.69	142.5 Ha		10.69		142.5 Ha
-	-	-	-	2nos.	90 Ha		10.14	90 ha		10.14		90 Ha
				2 nos	77.5 Ha		5.35	77.5ha		5.35		77.5 Ha
				438 Rm	250 Ha		12.57	250 Ha		12.57		250 Ha
	-			4 nos	650 Ha		56.75	650 Ha		62.75		650 Ha

#### 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																	
				(ii)Bore wells																			
				(iii)Any others (Pl. specify)				Nil			Nil		Nil			Nil			Nil		Nil		
				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				No. of UGs involved	Estimate d Cost in lakhs	Amount of WDF to be collected (₹)
		Structure/ activity proposed						
		Sl. No.	Type	No.#	Treatment (ha)			
East Khasi Hills	East Khasi Hills – IWMP VII	-	-	-	- -	-	-	-

#### 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 (₹)	No. of mandays			Amount of WDF collected ₹
Sl. No.	Type	No.#	Treated Area (ha.)			SC	ST	F	
-	-	-	-	-	-	-	-	-	-



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

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 VII	1. Betel Nut Soaking	9 nos.	1,08,000
		2. Pisciculture	1no.	50,000
		4. Piggery Farming	30 nos.	4,50,000
		5. Grocery Shop	5 nos.	1,20,000
		6. Canes & Handicraft	4 nos.	1,00,000

#### 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 `)				Total annual Income generated (₹)	Total annual Savings (₹)	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		Kitchen Garden		Basketry/Hollow Block etc.		Grocery Shop		Tailoring		Veterinary services		Fishery development		Betel nut Soaking		Apiculture		Total cost incurred (₹ In lakhs)
		(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	
EKH	IWMP-VII	582.5 Ha	52.65	417.5 Ha	22.35	8U	0.2	32U	3.10	14U	4.20	36U	4.80	100U	17	1U	0.3	9U	4.50	5U	0.40	109.50

#### 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 (₹. in lakh)				Status of completion	Actual month & year of completion (mm/yyyy)	
											M	W	O	T			M	W	O	T			
		Staggered trenching																					
		Loose boulder Contour bund	R	-	-	Pri- vate	-	-	Benefi- ciary	142.5 Ha					3 yrs	-	-	-	-	-	-	-	-
		Graded bunding																					
		Box terracing	R			Pri- vate				90 Ha					-do-								
		CC checks dams		D		Com muni ty				90Ha					-do-								
		Water Harvesting Structures		D		Com muni ty				77.5 Ha					-do-								
		Gully plug/P wall			L	Pri- vate				250 Ha					-do-								
		Gabion structures																					
		Underground dykes																					
		Field bunds																					
		Any others (pl. specify)																					

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(₹)		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	650	Na	-	Na	-	Na	-	-	27665	19365	8300	27665	-	320	224	96	320

#### 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 (₹ in lakh)	Expecte d month & year of comple- tion (mm/ yyyy)	Area (ha)	No. of plant s	Expendi- ture incurred (₹ in lakh)	Actual month & year of comple- tion (mm/ yyyy)
		Afforestation	✓			✓				80	24000	8.08	3 years				
		Regeneration	✓				✓			110	11000	3.90	3 yrs	-	-	-	-
		Agro-forestry												-	-	-	-
		Fuel wood															
		Fodder															
		Agro- Horticulture	✓			✓				160		11.92	3 yrs	-	-	-	-
		Pasture dev.															
		Nursery raising															
		Others (Coffee)												-	-	-	-

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

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

9														
Outcomes														
Reduction in run off (cu.m)	Production (quintal)		Income (₹)		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	Target		Achievement	
			(i) Private	(ii) Community	(iii) Others (landless)	(i) UG (ii) SHG (iii) Others (pl. specify)	Estimated cost (₹. in lakh)	Expected month & year of completion (mm/yyyy)	Expenditure incurred (₹ in lakh)	Actual month & year of completion (mm/yyyy)
East Khasi Hills	Wah Thyllong IWMP VII	Tailoring – 60units	-	-	60units	Individuals	4.80	3 yrs.		
		Carpentry/ Agri- implements/ Basket making etc – 28 nos.			28units	Individual	1.4	3 yrs.		
		Bee keeping			5units	Do	0.40	3 yrs.		
		Backyard poultry/Piggery			100 units	Do	8.00	3 yrs.		
		Masonry/hollow Block			4 units	Do	0.20	3 yrs.		
		Piggery /Poultry Farming			30 units	SHG's	9.00	3 yrs.		
		Kitchen gardening			8 units	Individual	0.20	3 yrs.		
		Canes & handicrafts.			6 units	SHG's	1.50	3 yrs.		
		Grocery shop			14 Units	SHG's	4.20	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 column no. 7, agency-wise totals, from column no. 8, total estimated cost, from column no. 9, total expenditure incurred, structure-wise no. of completed works, from column no. 10, item-wise totals, for the entire country may be indicated at the end of the table

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

#### 4.2.13 Details of allied / other activities:

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

### 4.3 Consolidation and withdrawal phase

#### Details of activities in the CPRs in the project areas:

1	2	3	4	5	6				7						
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 (₹.)	Expected no. of beneficiaries	Estimated contribution to WDF (₹.)	Area treated under the activity (ha)	Expenditure incurred (₹.)	Actual no. of beneficiaries	No. of mandays			WDF collected (₹.)
												SC	ST	F	
		Nohwet	Water Conservation Structure		-	3.20		0.16							
		Nongsohphan	-do-		-	0.70		0.035							
		Riwai	-do-		-	0.70		0.035							
		Nongthymmai	-do-		-	0.20		0.01							
		Thiep skai	-do-		-	0.20		0.01							



**CHAPTER V**  
**PROJECT PHASING & BUDGETING**

# CHAPTER V

## PROJECT PHASING & BUDGETING

### ACTION PLAN OF WAH THYLLONG WATERSHED UNDER IWMP-VII 2010-11

Name of District: East Khasi Hills

No. of villages – 5 nos

Name of C&RD Block: Pynursla.

Project Area – 1000 Ha.

Sl. No	Activities	I <sup>st</sup> Year		II <sup>nd</sup> Year		III <sup>rd</sup> Year		IV <sup>th</sup> Year		V <sup>th</sup> 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
<b>I</b>	<b>MANAGEMENT COST:</b>												
<b>A.</b>	<b>Administrative cost:</b>			2%	3	5%	7.5	3%	4.5	-		10%	15
				Months		months		months					
i.	Honourarium of WDT Members @ ₹ 5000/ month – 1 no.			12	0.6	12	0.6	12	0.6	-		3 yrs	1.8
ii.	Hon <sup>rm</sup> of Watershed Volunteers @ ₹ 2500/- month – 2 nos.			12	0.6	12	0.6	12	0.6	-		3 yrs	1.8
iii.	Hon <sup>rm</sup> WCO's @ ₹ 750/ month.			12	0.09	12	0.09	12	0.09	-		3 yrs	0.27
iv.	Hon <sup>rm</sup> WCM @ ₹ 100/members/ month for 25 nos.			12	0.30	12	0.3	12	0.3	-		3 yrs	0.9
v	Hon <sup>rm</sup> Office assistance @ ₹ 3000/- month.			12	0.36	12	0.36	12	0.36	-		3 yrs	1.08
vi	Hon <sup>rm</sup> Chartered Accountant			1	0.15	1	0.15	1	0.15	-		3 yrs	0.45
vii	TA/DA of Field Asstt. @ ₹ 5000/ month			6	0.3	12	0.6	12	0.6	-		2.5 yrs	1.5
viii	Hiring charges of office building @ ₹1000			0	0	12	0.12	12	0.12	-		3 yrs	0.24
ix.	Hiring charges of vehicle @ ₹5000/ month			6	0.3	12	0.6	12	0.6	-		2.5 yrs	1.5
x	Office expenses, POL, Stationeries, printing of SHG's books, pamphlets, tea, snacks etc, cost of camera.			-	0.3	-	4.08	-	1.08	-		-	5.46
	<b>Total of A:</b>			<b>2.00%</b>	<b>3.00</b>	<b>5.00%</b>	<b>7.50</b>	<b>3.00%</b>	<b>4.5</b>	<b>0.00%</b>	<b>0</b>	<b>10.00%</b>	<b>15</b>

	<b>PREPARATORY PHASE :</b>												
<b>B.</b>	<b>Entry Point Activities:</b>	4%	6	-	-	-	-	-	-	-	-	<b>4%</b>	6
i.	Construction of Water Tank cum bathroom & Washing place	5 units	6	-	-	-	-	-	-	-	-	5 units	6
	<b>Total of B:</b>	<b>4%</b>	<b>6</b>			-		-		-	-	<b>4%</b>	<b>6</b>
<b>C.</b>	<b>Training:</b>	1%	1.5	2%	3	1%	1.5	1%	1.5	-	-	5%	7.5
i.	Awareness Campaign & Capacity building	1 no	0.6	-		-						1 no	0.6
ii.	Exposure visits – off. Campus			2 nos	0.6	-		1 no.	0.3	-		3 nos	0.9
iii.	Capacity building of SHG's/ UG's.	2 nos.	0.3	7 nos.	1	4 nos.	1	2 nos.	0.6	-	-	15 nos.	2.9
iv.	Capacity building of WC Members.	2 nos.	0.3	4 nos.	0.75	1no.	0.25	1 no.	0.3	-	-	8 nos.	1.6
v.	Capacity of WDT/WV	2 nos.	0.3	4 nos.	0.65	1 no.	0.25	1 no.	0.3	-	-	8 nos.	1.5
	<b>Total of C:</b>	<b>1.00%</b>	<b>1.5</b>	<b>2.00%</b>	<b>3</b>	<b>1.00%</b>	<b>1.5</b>	<b>1.00%</b>	<b>1.5</b>	-	-	<b>5.00%</b>	<b>7.5</b>
<b>D.</b>	<b>Detailed Project Report:</b>	1%	1.5			-	-	-	-	-	-	1%	1.5
i.	Cost of Resources Inventories works	-	0.25	-	-	-	-	-	-	-	-	-	0.25
ii.	Cost of PRA Exercises	-	0.5	-	-	-	-	-	-	-	-	-	0.5
iii.	Cost of Land use Survey works	-	0.25	-	-	-	-	-	-	-	-	-	0.25
iv.	Cost of formulating	-	0.5	-	-	-	-	-	-	-	-	-	0.5
	<b>Total of D:</b>	<b>1%</b>	<b>1.5</b>			-		-		-	-	<b>1%</b>	<b>1.5</b>
<b>E.</b>	<b>Monitoring &amp; Evaluation:(internal monitoring and social audit)</b>	-	-							-	-	2%	3
<b>i</b>	<b>Monitoring</b>			0.20%	0.3	0.50%	0.75	0.3%	0.45			1%	1.5
ii	Evaluation	-	-	0.30%	0.45	0.50%	0.75	0.20%	0.3	-	-	1%	1.5
	<b>Total of E:</b>			<b>0.50%</b>	<b>0.75</b>	<b>1.00%</b>	<b>1.5</b>	<b>0.50%</b>	<b>0.75</b>	-	-	<b>2.00%</b>	<b>3</b>
	<b>Total of I (A to E)</b>	<b>6.00%</b>	<b>9</b>	<b>4.50%</b>	<b>6.75</b>	<b>7.00%</b>	<b>10.50</b>	<b>4.50%</b>	<b>6.75</b>			<b>22.00%</b>	<b>33.00</b>

<b>II</b>	<b>PROJECT COST/WATERSHED WORKS PHASE :</b>												
<b>A.</b>	<b>Arable Land Treatment:</b>												
i.	Loose boulder Contour Bunds @ ₹ 7500/ ha for 142.5 ha	-	-	27.2 Ha	2.04	92.8 Ha	6.96	22.5 Ha	1.688			142.5 Ha	10.69
ii	Loose boulder box terracing 90 ha ₹ 20,000	-	-	25 Ha	5.00	65 Ha	13					90 Ha	18.00
iii.	Agro-Horticulture Devt. ₹8600/ ha for 160 ha	-	-	160 Ha	2.08	160 Ha	5.52	160 Ha	4.32			160 Ha	11.92
	<b>Total of A :</b>	-	-	-	<b>9.12</b>	-	<b>25.48</b>	-	<b>6.01</b>			-	<b>40.608</b>
<b>B.</b>	<b>Non- Arable Land Treatment:</b>												
i.	Afforestation 80 Ha @ ₹ 10,100	-	-	80 Ha	1.36	80 Ha	4.4	80 Ha	2.32			80 Ha	8.08
ii	Improvement of existing Degraded Forest – 110 ha @ ₹3600/-	-	-	110 Ha	0.77	110 Ha	2.09	110 Ha	1.1			110 Ha	3.960
	<b>Total of B:</b>	-	-	-	<b>2.13</b>	-	<b>6.49</b>	-	<b>3.42</b>			-	<b>12.04</b>
<b>C</b>	<b>Drainage Line Treatment:</b>												
i.	Water Harvesting Structures -2 nos(77.5 ha B Area)	-	-			2 nos	2.65					2 nos	2.65
ii.	Check Dam, 2 Nos-(90 Ha B Area)	-	-			2 nos	7.13					2 nos	7.13
iii	Protection wall 250 Ha (512 RM)	-	-			432 Rm	10.75	80Rm	1.82			512Rm	12.57
	<b>Total of C :</b>	-	-	-	<b>0</b>	-	<b>20.53</b>	-	<b>1.82</b>			-	<b>22.35</b>
	<b>Total of A + B + C</b>	-	-	<b>7.50%</b>	<b>11.25</b>	<b>35.00%</b>	<b>52.50</b>	<b>7.50%</b>	<b>11.25</b>			<b>50.00%</b>	<b>75.00</b>
<b>D</b>	<b>Livelihood Activities for landless persons:</b>												
i.	Tailoring @ ₹ 8,000	-	-			15 units	1.20	45 units	3.6			60 units	4.80
ii.	Carpentry/Basketery @ ₹ 5000	-	-	6 units	0.3	6 units	0.30	16 units	0.8			28 units	1.40
iv	Apiculture @ ₹ 8000	-	-	2 units	0.16	3 units	0.24					5 units	0.40
v	Masonry/ Hallow block making @ ₹ 5000/-	-	-				0.00	4 units	0.2			4 units	0.20
vii	Poultry / Piggery @ ₹ 8,000/-			13 units	1.04	32 units	2.56	55 units	4.4			100 units	8.00
vii	Kitchen Gardening @ ₹ 2500/-					8 units	0.20					8 units	0.20
	<b>Total of D:</b>	-	-	<b>1.0%</b>	<b>1.5</b>	<b>3.00%</b>	<b>4.50</b>	<b>6.00%</b>	<b>9.0</b>			<b>10.0%</b>	<b>15.0</b>

<b>E.</b>	<b>Production System and Micro Enterprises (SHG's):</b>												
i.	Betel nut soaking Tank @ ₹ 50,000/-	-	-	3units	1.5	5units	2.50	1 units	0.5			9 units	4.5
ii	Pisciculture @ ₹ 30,000/	-	-			1 units	0.30					1 unit	0.3
iii	Piggery / Poultry @ ₹ 30,000/	-	-			12 units	3.60	18 units	5.40			30 units	9
iv	Canes & Handicrafts @ ₹. 25,000/	-	-			2units	0.50	4 units	1.00			6 units	1.5
v	Grocery shop @ ₹ 30,000/-	-	-			2 units	0.60	12units	3.60			14 units	4.2
	<b>Total of E :</b>			<b>1.00%</b>	<b>1.5</b>	<b>5.00%</b>	<b>7.5</b>	<b>7.00%</b>	<b>10.5</b>			<b>13.00%</b>	<b>19.5</b>
<b>F.</b>	<b>Consolidation &amp; Exit Phase:</b>												
i.	Repairs, Maintenance of CPR's.	-	-	-	-	-	-	-	-	-	3	-	3
ii.	Improving the sustainability of various Interventions	-	-	-	-	-	-	-	-	-	2	-	2
iii.	Documentation of successful experiences & Preparation of Completion Report	-	-	-	-	-	-	-	-	-	2.5	-	2.5
	<b>Total of F:</b>	-	-	-		-	-	-	-	-	<b>7.5</b>	-	<b>7.5</b>
	<b>Total of II (A+B+C+D+E+F)</b>			<b>9.50%</b>	<b>14.25</b>	<b>43.00%</b>	<b>64.50</b>	<b>20.50%</b>	<b>30.75</b>	<b>5%</b>	<b>7.5</b>	<b>78.00%</b>	<b>117.00</b>
	<b>Grand Total (I + II)</b>	<b>6%</b>	<b>9.00</b>	<b>14%</b>	<b>21.0</b>	<b>50%</b>	<b>75.0</b>	<b>25.00%</b>	<b>37.5</b>	<b>5%</b>	<b>7.5</b>	<b>100%</b>	<b>150.0</b>

# VILLAGE WISE ACTION PLAN OF WAH THYLLONG WATERSHED UNDER IWMP-VII 2010-11

Name of District: East Khasi Hills

No. of villages – 5 nos.

Name of C&RD Block: Pynursla.

Project Area – 1000 Ha.

Sl. No	Activities	Nohwet		Nongsophan		Riwai		Thiep Skai		Nongthymmai		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
<b>I</b>	<b>WATERSHED WORKS PHASE :</b>											-	-
<b>A.</b>	<b>Arable Land Treatment:</b>												-
i.	Loose boulder Contour Bunds @ ₹ 7500/ ha for 142.5 ha	127.5Ha	9.5625			15 Ha	1.125					142.5 Ha	10.69
iii.	Agro-Horticulture Devt. ₹8600/ ha for 160 ha	86 Ha	7.63	25 Ha	1.67	25 Ha	1.67	12 Ha	0.48	12 Ha	0.48	160 Ha	11.92
<b>B.</b>	<b>Non- Arable Land Treatment:</b>												
i.	Agro-Forestry Devt. works @ ₹10,100/ ha for 80 ha	50 Ha	5.05	11 Ha	1.111	11 Ha	1.111	4 Ha	0.404	4 Ha	0.404	80 Ha	8.08
ii	Improvement of existing Degraded Forest @ ₹3600/ ha for 110 ha	62 Ha	2.232	40 Ha	1.44	8 Ha	0.288					110 Ha	3.96
iii.	Loose boulder box terracing 90 ha ₹20,000	58 Ha	11.6			20 Ha	4	6 Ha	1.2	6 Ha	1.2	90 Ha	18.00

<b>C</b>	<b>Drainage Line Treatment:</b>												
i.	Water Harvesting Structures-BA 77.5 Ha (IWMP)	1 no	1.8			1 no	0.851					2 Nos.	2.65
	(NREGA)	1no	2.7										
	TOTAL		4.5										
ii.	Check dam – BA 90 ha (IWMP)	1 no	2.06	1 no	5.07							2 Nos.	7.13
	(NREGA)	1 no	3										
	TOTAL		5.06										
												<b>MGNREGA</b>	<b>5.70</b>
iii.	Protection Wall (512 Rm)- BA 250 Ha	327Rm	7.97	48 Rm	1.20	61 Rm	1.50	38 Rm	0.95	38 Rm	0.95		12.57
	<b>Total of I:</b>		<b>47.903</b>		<b>10.5</b>		<b>10.5</b>		<b>3.0</b>		<b>3.0</b>	<b>50%</b>	<b>75.00</b>
<b>II.</b>	<b>Livelihood Activities for landless persons:(10%)</b>												
i.	Tailoring @ ₹ 8,000/-	36 units	2.88	9 units	0.72	9 units	0.72	3 units	0.24	3 units	0.24	60 units	4.80
ii.	Carpentry/ Agri- Implements/ Basket Making etc @ ₹ 5000/-	16 units	0.8	4 units	0.2	4 units	0.20	2 units	0.1	2 units	0.1	28 units	1.40
iii.	Piggery/Poultry @ ₹ 8000/ unit	64 units	5.12	14 units	1.12	14 units	1.12	4 units	0.32	4 units	0.32	100 units	8.00
iv.	Apiculture @ ₹ 8000/-							3 units	0.24	2 units	0.16	5 units	0.40
v.	Kitchen Gardening @ ₹ 2500/-							4 units	0.1	4 units	0.1	8 units	0.20
vi.	Masonry / Hollow block making @ ₹5,000/	2 units	0.1	1 unit	0.05	1 unit	0.05					4 units	0.20
	<b>Total of II.:</b>		<b>8.90</b>		<b>2.09</b>		<b>2.09</b>		<b>1.00</b>		<b>0.92</b>	<b>10%</b>	<b>15.00</b>

<b>III.</b>	<b>Production System and Micro Enterprises (SHG's):</b>												
i.	Betel nut soaking Tank @ ₹ 50,000/-	6 units	3.00			3 units	1.50					9 units	4.50
ii	Pisciculture @ ₹ 30,000/	1 unit	0.3									1 unit	0.30
vi	Piggery / poultry @ ₹ 30,000/	16 units	4.8	5 units	1.5	5 units	1.50	2 units	0.6	2 units	0.6	30 units	9.00
vii	Grocery shop @ ₹ 30,000/	8 units	2.4	2 units	0.6	2 units	0.60	1 unit	0.3	1 unit	0.3	14 units	4.20
viii	Canes & Handicrafts @ ₹ 25,000/ unit	2 units	0.5	1 unit	0.25	1 unit	0.25	1 unit	0.25	1 unit	0.25	6 units	1.50
	<b>Total of III:</b>		<b>11.00</b>		<b>2.35</b>		<b>3.85</b>		<b>1.15</b>		<b>1.15</b>	<b>13%</b>	<b>19.50</b>
	<b>Grand Total (I+II+III)</b>		<b>67.80</b>		<b>14.93</b>		<b>16.48</b>		<b>5.18</b>		<b>5.10</b>	<b>73%</b>	<b>109.50</b>
											TOTAL MGNREGA		5.70



**A TYPICAL FORMAT TO IDENTIFY WORKS/ACTIVITIES REQUIRED FOR INTEGRATED DEVELOPMENT OF THE OVER EXPLOITED BLOCKS  
AND COVERED UNDER MAHATMA GANDHI NREGA AND INTEGRATED WATERSHED MANAGEMENT PROGRAMME WITH THE SIZE OF  
AREA/WORK,  
ESTIMATED COST AND THE YEAR IN WHICH PROPOSED FOR EXECUTION.**

**NAME OF WATERSHED** WAH THYLLONG IWMP 2010 – 2011 PROJECT – VII **AREA OF WATERSHED** 1460 HA **NAME OF VILLAGE** NOHWET


**NAME OF PANCHAYAT/BLOCK/DISTRICT** PYNURSLAC&RD BLOCK, EAST KHASI HILLS DISTRICT

Sl No	Work/Activity	Kind of Area	Size of Area/Work	Estimated Cost (Lakh)	Programme Under which Proposed	Year in which Proposed				
						2010 – 2011	2011 – 2012	2012 – 2013	2013 – 2014	2014 – 2015
1	2	3	4	5	6	7	8	9	10	11
(i)	<u>Water Conservation/ Harvesting</u> • Check Dam  • Check Dam	Community  Community		4.5  5.07	MGNREGA  IWMP MGNREGA  IWMP			2.70  1.80  3.0  2.07		
			<b>TOTAL :</b>	<b>9.57</b>	<b>MGNREGA IWMP</b>			<b>5.70 3.87</b>		
						<b>TOTAL :</b>		<b>9.57</b>		

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

**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 (₹. 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	For est land	Comm unity land	Others (pl. specify)	Total area (ha)
												a) Tempora ry fallow	b) Per manent					
1	Meghalaya	East Khasi Hills	East Khasi Hills – IWMP VII	2010 -11	2010-11	2014 -15	1000 Ha	150 Lakhs	Wah Thyllong– 3C1B5g2a	270Ha	10 Ha	720 Ha	460 Ha	890Ha	190 Ha	320 Ha	60 Ha	1460 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	Financi al contri- bution	Nam e	Financia l contri- bution	
East Khasi Hills	East Khasi Hills – IWMP VII	135 lakhs	15 lakhs	NREGS	26.00	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	176

**Details of Project Fund Accounts of Dist. 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 VII	State Bank of India, Polo Branch	30984185205	Savings	Shri A. S. Kharlukhi, DS&WCO	Wah Thyllong Watershed Committee	Meghalaya Co-operative Apex Bank, Pynursla	SB0-785	Savings	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 (₹. in lakh)	Name of activity/task/structure undertaken with converged funds	Reference no. of activity/ task/ structure in DPR <sup>@</sup>	Level at which decision for convergence was taken <sup>\$</sup>
					(a) Structures (b) livelihoods (c ) Any other (pl. specify) <sup>#</sup>		
1	East Khasi Hills	East Khasi Hills – IWMP VII	* Community Rural Development Department NREGS	26.00	Construction of footpath& Development of Tourist Spot	-	Block Level & District Level
2			* PHE Department TSC	n.a	Construction of Low cost sanitary unit	-	

**Note:**(i) Nohwet Wages – 26.00; Labour – 20.30 Construction of Footpath and Development of Tourist Spot.

**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 <sup>#</sup>	Area(s) of specialization <sup>\$</sup>	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.	CapacityBuilding	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		KVIB	Shillong	CEO	State Govt.	Handicrafts/Apiculture/Food Processing etc.	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
- <sup>#</sup> Central govt. Dept./ State govt. Dept./ Autonomous Body/ Research Institutes/ Universities/ Others (pl. specify)

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

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

- (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			—	-	₹1.50	-	₹1.50	-
DRDA/ZP cell			—	-				
PIAs			—	-				
WDTs			—	-				
UGs			—	-				
SHGs			4Nos.	-				
WCs			16 Nos.	-				
GPs			15 Nos.	-				
Community			—	-				
Others Pl. specify)			—					

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

	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
	<b>Activity</b>	<b>Executing agency</b>	<b>Estimated expenditure ₹</b>	<b>Expenditure incurred ₹</b>	<b>Outcome (may quantity, wherever possible)</b>
1.	Awareness	S&WC (T) Division	0.60	0.60	
2.	PRA Exercises	S&WC (T) Division	0.50	0.50	
3.	Capacity Building	S&WC (T) Division	0.90	0.90	

**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.	Nohwet		100 %	30660	20440	51100		100 %	438	292	730		100 %	19	12	31
2.	Nongsohphan		100 %	9702	6468	16170		100 %	139	92	231		100 %	6	4	10
3.	Riwai		100 %	6048	4032	10080		100 %	86	58	144		100 %	5	3	8
4.	Nongthymmai		100 %	2520	1680	4200		100 %	36	24	60		100 %	4	2	6
5.	Thiepskai		100 %	2520	1680	4200		100 %	36	24	60		100 %	3	2	5
						<b>85750</b>					<b>1225</b>					<b>60</b>

**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 (₹in lakh)
Woman days	Amount (₹in lakh)	No. of women participants	Amount (₹in lakh)	No. of women beneficiaries	Value of assistance provided (₹ in lakh)	
34300	34.30	350	0.60	163nos.	6.0	40.9

\* 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-VII	Nohwet	Community Forest	Fw	6 months	-	385	-	385	Nil
		Nongsohphan	Community Forest	Fw	6 months	-	82	-	82	Nil
		Riwai	Community Forest	Fw	6 months	-	81	-	81	Nil
		Nongthymmai	Community Forest	Fw	6 months	-	20	-	20	Nil
		Thiepskai	Community Forest	Fw	6 months	-	18	-	18	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 VII	Open wells	-	-	-	-	-
		Bore wells	-	-	-	-	-
		Others (specify) Springs	very poor poor	poor	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 VII	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 <sup>\$</sup>	through water conserving agronomic practices <sup>#</sup>	Any other (pl specify)	Total
East Khasi Hills District	EKH-IWMP VII	-	-	-	-	-
		-	-	-	-	-

\* 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.

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

<sup>#</sup> 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 Rabi 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.
		Millet	-	25	-	10	-	250	-	25	-	12	-	300	-	25	-	15	-	375
East Khasi Hills District	EKH-IWMP VII	Soyabean	-	25	-	10	-	250	-	25	--	17	-	425	-	25	-	18	-	450
		Yam	-	20	-	18	-	360	-	20	-	19	-	380	-	20	-	20	-	400
		Bay leaf	-	20	-	20	-	400	-	25	-	21	-	525	-	80	-	25	-	2000
		Litchi	-	20	-	60	-	1200	-	22	-	62	-	1364	-	25	-	65	-	1625
		Betel nut	-	50	-	9	-	450	-	70	-	9.88	-	692	-	260	-	10.6	-	2743
		Betel leaf	10	10	25	20	250	200	25	-	27	-	675	-	80		32	-	2560	-
		Black Pepper	-	30	-	6.0	-	180	50	50	6.4	6.2	320	310	225	80	6.7	6.2	1507.5	496
		Oranges	-	20	-	45	-	900	-	30	-	47	-	1410	-	180	-	52	-	9360

\* 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 Kharif crop area and yield in the project areas:**

1	2	3	4	5	6						7						8					
SI 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 VII	Betel leaf	10	10	25	20	250	200	25	-	27	-	675	-	80		32	-	2560	-
				Jack fruit	-	20	-	80	-	1600	-	22	-	82	-	1804	-	25	-	85	-	2125
				Black Pepper	-	30	-	60	-	1800	50	50	64	62	3200	3100	225	80	67	62	15075	4960

\* 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 VII	Betel leaf	10	10	25	20	250	200	25	-	27	-	675	-	80		32	-	2560	-
			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 VII	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 VII	5 yrs	LULC Map (NESAC)	2006	250 Ha	350 Ha	350Ha	350 Ha

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

**Table 7.6.6 Increase/ Decrease in area under horticulture:**

1	2	3	4			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 VII	5 yrs				160 Ha	160 Ha	270 Ha

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

**Table 7.6.7 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 VII	5 yrs				110 Ha	110 Ha	190Ha

\* 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	
East Khasi Hills District	EKH-IWMP VII	Milch- animals	nil	nil	nil	nil	nil	nil	nil	nil	nil	
		Piggery	492	-	3.69	541	-	4.06	630	-	5.54	
		Poultry	1757	-	4.10	1947	-	5.12	2237	-	5.33	
		Apiculture in unit	15	-	0.18	17	-	0.29	20	-	0.40	
	Total for all projects		2264	-	7.97	2505	-	9.47	2887	-	11.27	
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 ₹	Sources of funding ₹				Actual Expenditure incurred on activity ₹	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	EK H-IW MP VII	Tailoring	10000/-	8000/-	2000/-	-	10000/-	8000/-	-	120	20	100	120	-	10	2	8	10
		Apiculture	10000/-	8000/-	2000/-		10000/-	8000/-		40	40	-	40	-	5	5	-	5
		Grocery Shop	35000/-	30000/-	5000/-		35000/-	30000/-		36	12	24	36	-	14	6	8	14
		Basket - Making/car pentry	6000/-	5000/-	1000/-	-	6000/-	5000/-	-	50	10	40	50	-	28	8	20	28
		Canes & Handicrafts	35000/-	30000/-	5000/-		35000/-	30000/-	-	21	14	7	21	-	6	4	2	6
		Hollow/Block making	6000/-	5000/-	1000/-	-	6000/-	5000/-	-	20	20	-	20	-	4	4	-	4
		Piggery/Poultry	35000/-	30000/-	5000/-	-	35000/-	30000/-	-	250	50	200	250	-	120	30	90	100
		Kitchen - gardening	3000/-	2500/-	500/-	-	3000/-	2500/-	-	8	-	8	8	-	8	-	8	8

(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 ₹	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	
120	130	30000/-	-	-	-	25	-
40	45	20000/-	-	-	-	-	-
36	50	30000/-	-	-	-	-	-
50	78	15000/-	-	-	-	-	-
21	27	25000/-	-	-	-	-	-
20	24	20000/-					
250	350	30000/-					
8	16	12000/-					

**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 ₹ in lakhs	Sources of funding ₹ in Lakhs				Actual Expenditure incurred on activity ₹	No. of farmers trained				No. of farmers taking up activity			
				Project Fund	Benefi-ciary	Others (pl. specify)	Total		SF	MF	LF	Total	SF	MF	LF	Total
East Khasi Hills District	EKH-IWMP VII	i) Betelnut soaking	0.80	0.50	0.30	-	0.80	0.50	-	-	-	15	-	-	-	9



\* 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 ₹	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)15	24	50.000	-	-	-	198	-

**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 VII	<b>(A) Backward linkages</b>			
		(i) Seed certification	-	-	-
		(ii) Seed supply system	-	3nos	3nos
		(iii) Fertilizer supply system	-	-	-
		(iv) Pesticide supply system	-	-	-
		(v) Credit institutions	-	3nos	7nos
		(vi) Water supply	-	-	2nos
		(vii) Extension services	-	1nos	4nos
		(viii) Nurseries	-	-	-
		(ix) Tools/machinery suppliers	-	2 nos	2 nos
		(x) Price Support system	-	-	-
		(xi) Labour	-	4000	6000
		(xii) Any other (please specify)	-	-	-
		<b>(A) Forward linkages</b>		-	-
		(i) Harvesting/threshing machinery	-	-	-
		(ii) Storage (including cold storage)	-	5 nos.	5 nos.
		(iii) Road network	-	-	-
		(iv) Transport facilities	-	2 nos.	2 nos.
		(v) Markets / Mandis	-	1 nos.	1 nos.
		(vi) Agro and other Industries	-	15 nos.	31 nos.
		(vii) Milk and other collection centres	-	-	-
		(viii) Labour	-	6000	8000
		(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		-	10 nos.	
		Change in cropping/ land use pattern		-	-	
		Area under agricultural crop				
		i Area under single crop		-	-	
		ii Area under double crop		150 ha	430 ha	
		iii Area under multiple crop		80 ha	320 ha	
		Net increase in crop production area				
		Increase in area under vegetation		-	170 ha	
		Increase in area under horticulture		-	380 ha	
		Increase in area under fuel & fodder		-	110 ha	
		Increase in milk production		-	-	
		No. of SHGs		4 nos.	12 nos.	
		Increase in no. of livelihoods		-	12 nos.	
		Increase in income		-	30,000	
		Migration		-	-	
		No. of school going children		325 nos.	875 nos.	
		SHG Federations formed		-	-	
		Credit linkage with banks		-	18 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 ₹	Expected quantifiable benefits ₹	Expenditure incurred ₹	Actual quantifiable benefit ₹	Benefit: Cost ratio <sup>#</sup>	IRR
East Khasi Hills District	EKH-IWMP VII	Wah Thyllong	As per Treatment Plan	117.0 lakhs	6875.333 lakhs	117.0 lakhs	----	1.41	-----

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

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

# BENEFIT COST RATIO

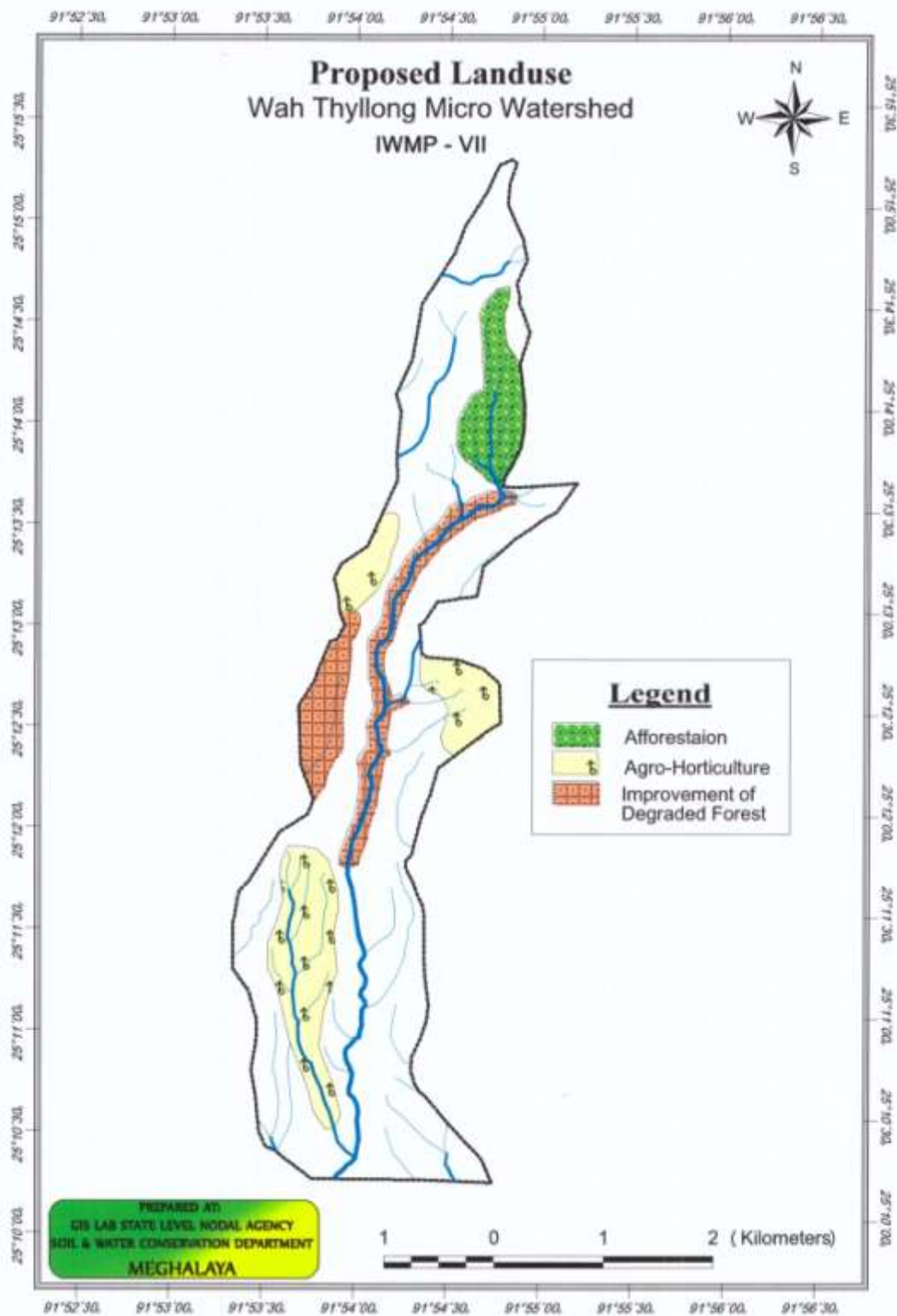
YEAR	TOTAL PROJECT COST	COST TO BE BORNE BY FARMERS	TOTAL COSTS	TOTAL BENEFITS	DISCOUNT FACTOR	DISCOUNTED COSTS	DISCOUNTED BENEFITS	REMARKS
1	9		9		0.870	7.830	0.000	
2	21	220.138	241.138	305.642	0.756	182.300	231.065	
3	75	271.157	346.157	373.444	0.658	227.771	245.726	
4	37.5	359.57	397.0655	507.69	0.572	227.121	290.396	
5	7.5	453.506	461.0055	674.999	0.497	229.120	335.475	
6		460.11	460.1055	686.72	0.432	198.766	296.663	
7		460.78	460.7805	694.47	0.376	173.253	261.122	
8		460.7805	460.7805	704.474	0.327	150.675	230.363	
9		460.7805	460.7805	724.474	0.284	130.862	205.751	
10		460.7805	460.7805	734.474	0.247	113.813	181.415	
11		460.7805	460.7805	734.474	0.215	99.068	157.912	
12		460.7805	460.7805	734.474	0.187	86.166	137.347	
	150		<b>4679.1545</b>	<b>6875.333</b>		<b>1826.745</b>	<b>2573.234</b>	

Benefit Cost Ratio =  $\frac{\text{Discounted Benefits}}{\text{Discounted Costs}}$

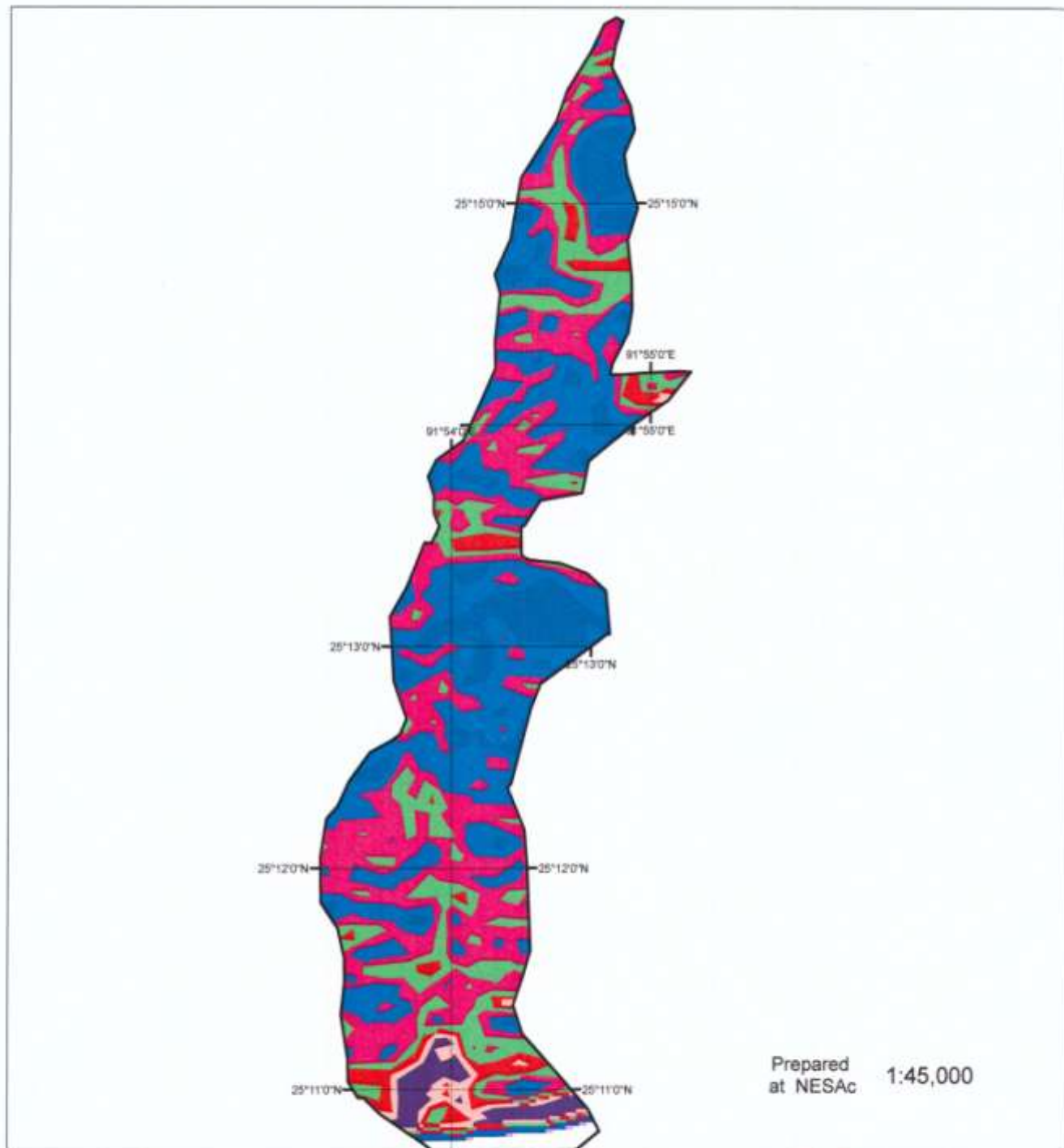
= 1.409

**B.C. Ratio = 1 : 1.41**

**ANNEXURE I**  
**MAPS**



# Slope map of 3C1B5i2b Micro-watershed (Umthyllong)



## Legend

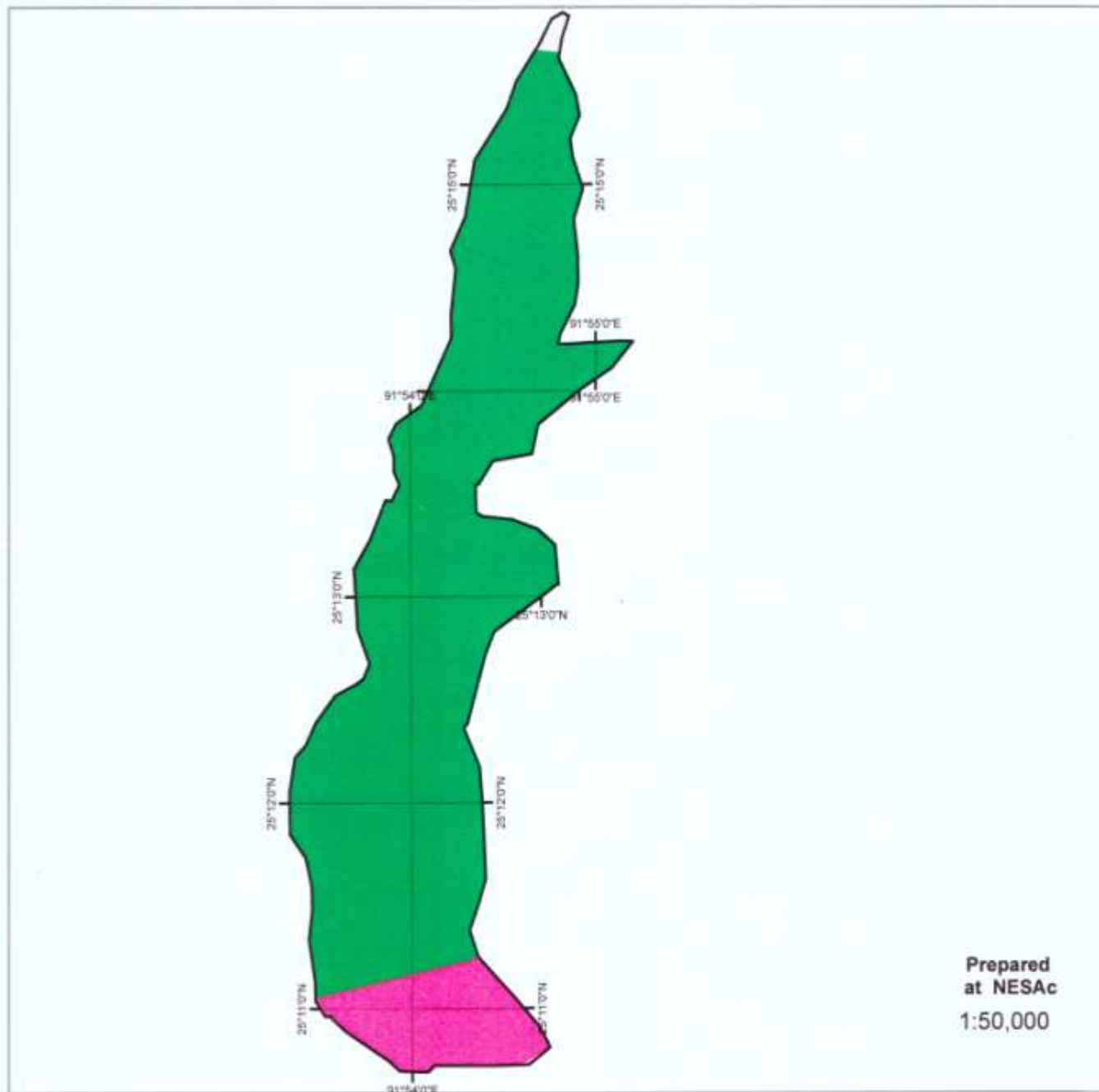
Mini\_ws  
Subws

0-10  
10-15  
15-25

25-35  
35-45  
45-75



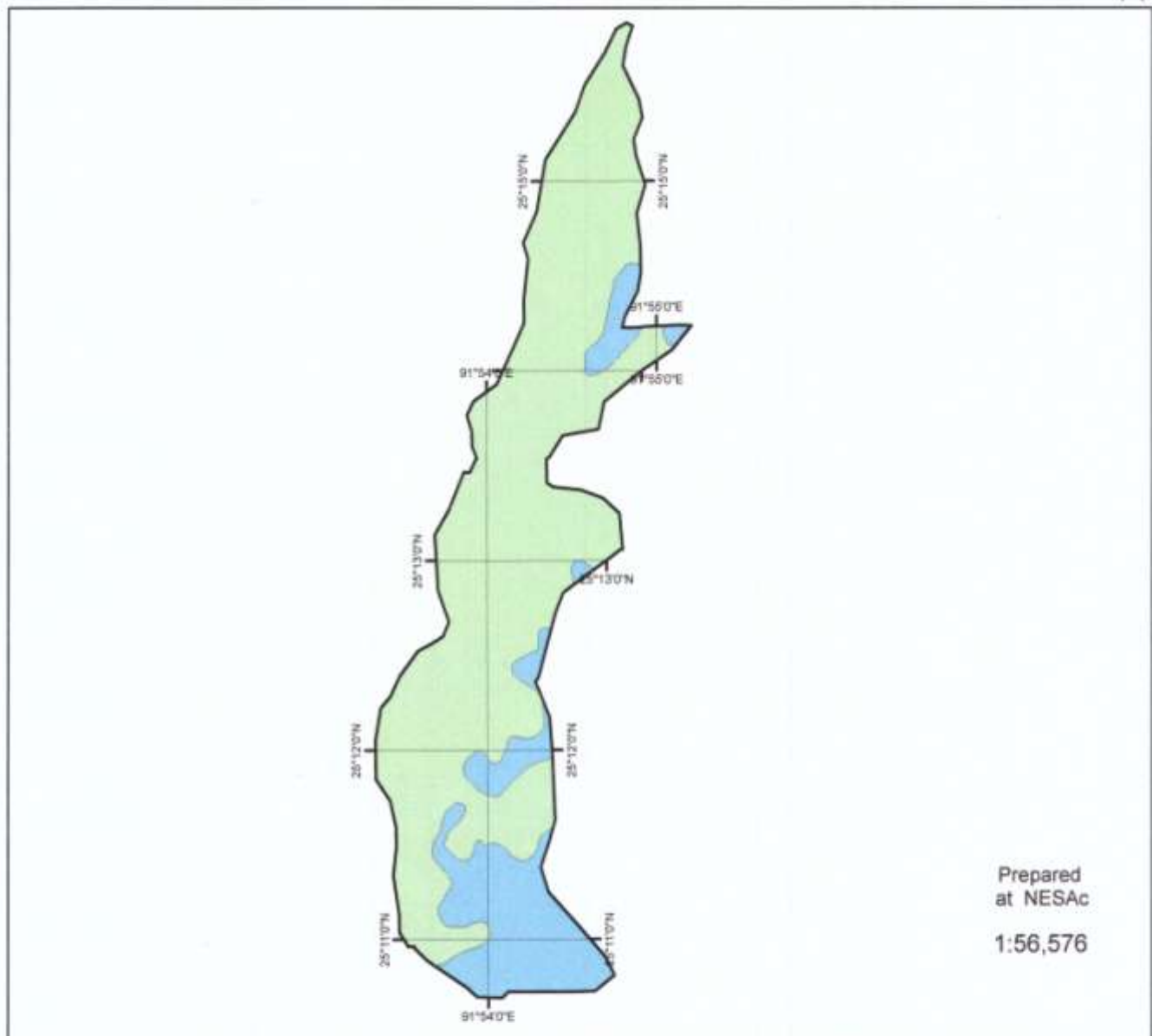
# Agro climating Zone map for 3C1B5i2b Micro-watershed (Umthyllong)



## Legend






















	Cold, Extremely Wet		Hot, Wet
	Cold, Moisture		Mild,
	Cold, Wet		Mild, Extremely Wet
	Hot,		Mild, Moisture
	Hot, Extremely Wet		Mild, Wet
	Hot, Moisture		

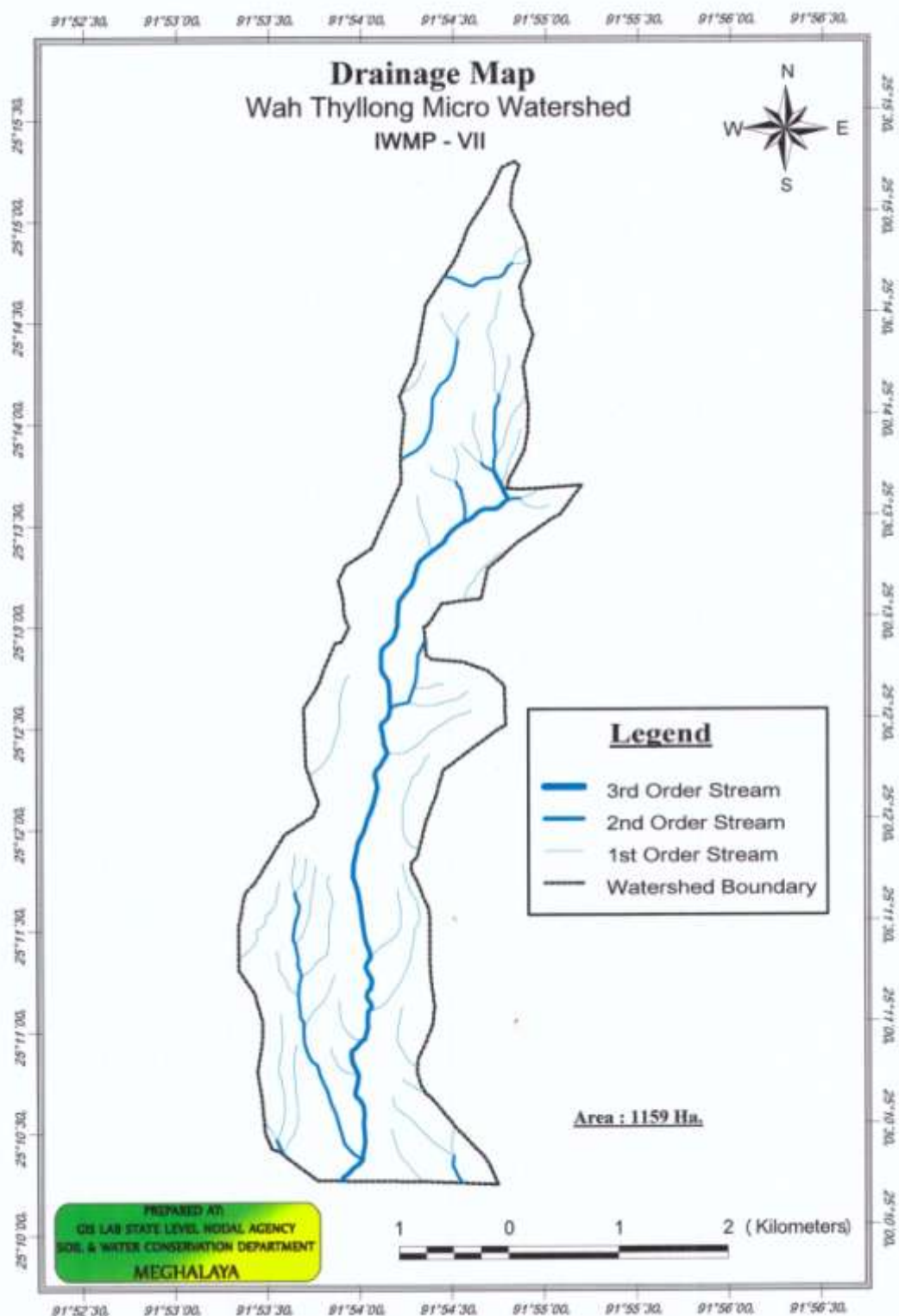
Soil map of 3C1B5i2b microwatershed (Umthylong)

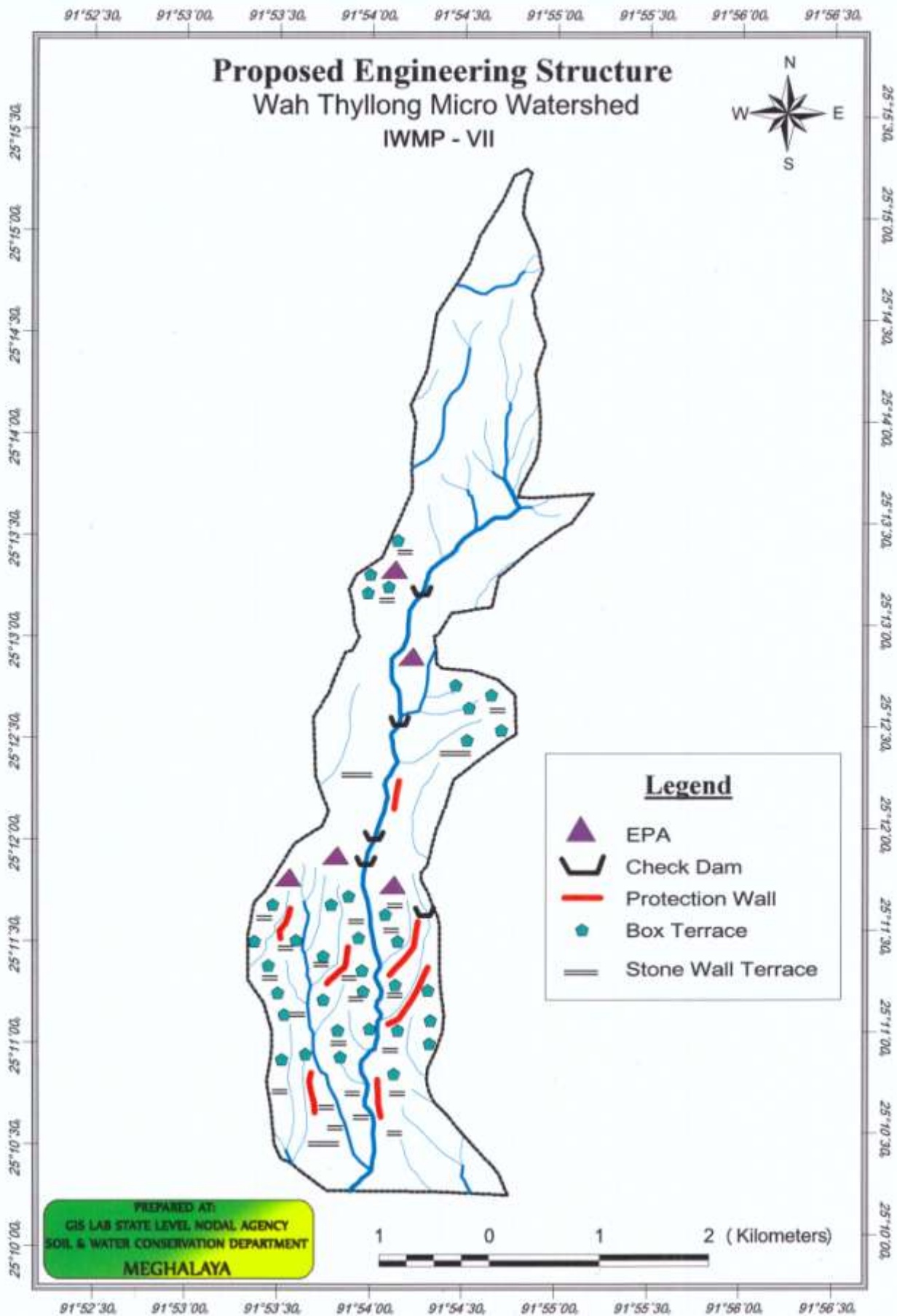


Prepared  
at NESAc  
1:56,576

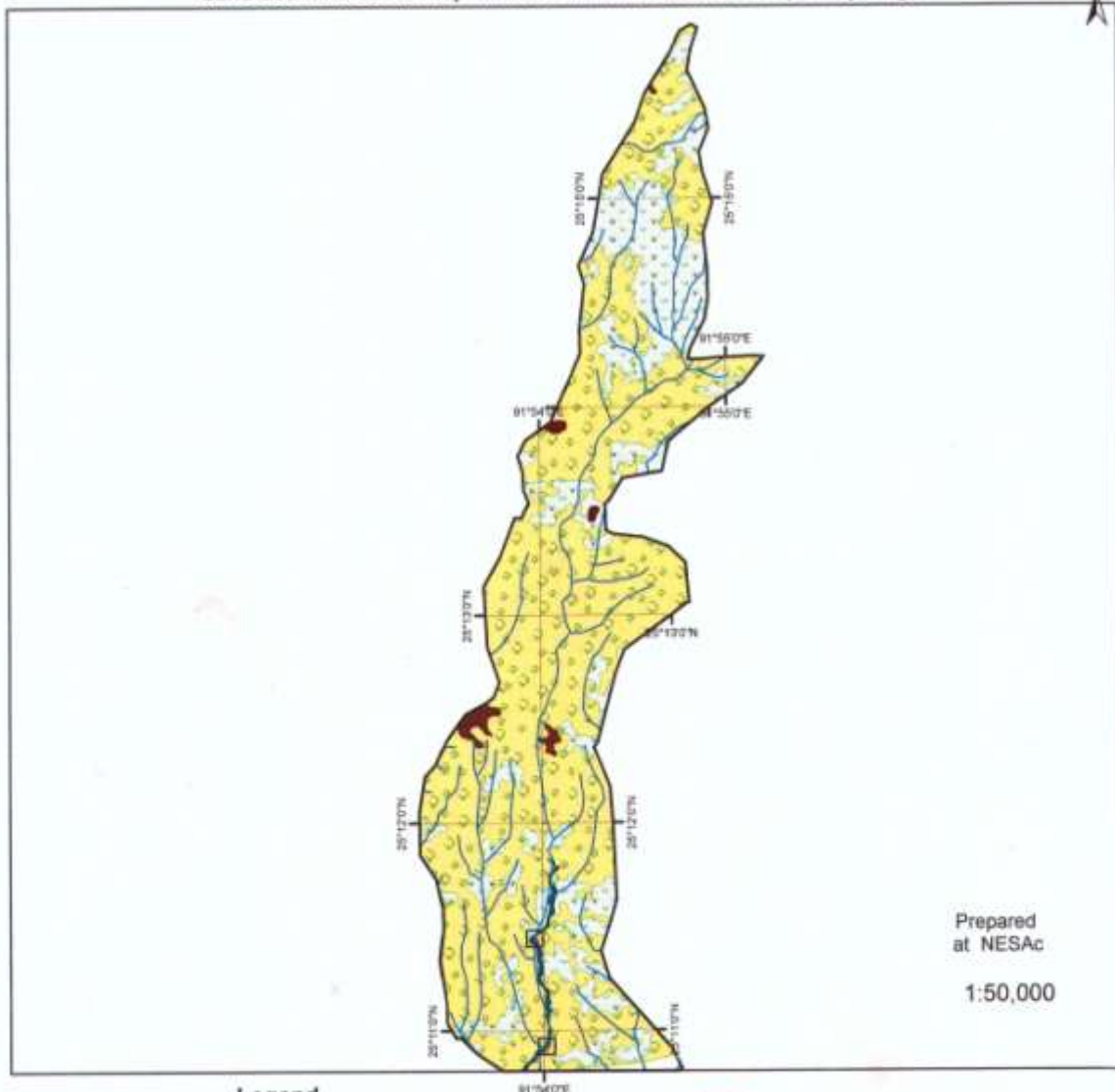
### Legend

 c, Alfisol, 5.22	 sc, Inceptisol, 5.21	 scl, Inceptisol, 5.635
 c, Alfisol, 5.41	 sc, Ultisol, 5.23	 scl, Ultisol, 5.285
 c, Inceptisol, 5.465	 scl, Alfisol, 5.36	 scl, Ultisol, 5.51
 cl, Alfisol, 5.12	 scl, Alfisol, 5.39	 scl, Ultisol, 5.91
 cl, Ultisol, 5.33	 scl, Alfisol, 5.57	 sl, Inceptisol, 5.85
 cl, Ultisol, 5.65	 scl, Alfisol, 5.63	 sl, Inceptisol, 5.95
 cl, Ultisol, 5.68	 scl, Alfisol, 5.78	
 sc, Alfisol, 5.70		





Land use land cover map of 3C1B5i2b microwatershed (Umthyllong)



### Legend

- |   |  |
|---|--|
| Agricultural Land-Crop Land-Kharif Crop         | Forest-Evergreen / Semi Evergreen-Dense/Closed |
| Agricultural Land-Crop Land-Rabi Crop           | Forest-Evergreen / Semi Evergreen-Open         |
| Agricultural Land-Crop Land-Two crop area       | Forest-Blank                                   |
| Built Up-Built Up (Rural)-Built Up area (Rural) | Forest-Scrub Forest                            |
| Built Up-Built Up (Urban)-Commercial            | Tree Clad Area- Close                          |
| Built Up-Built Up (Urban)-Mixed Built Up area   | Tree Clad Area- Open                           |
| Built Up-Built Up (Urban)-Public and semipublic | Wastelands-Barren Rocky/Stone waste            |
| Built Up-Built Up (Urban)-Recreational          | Wastelands-Sandy area-Riverine                 |
| Built Up-Built Up (Urban)-Residential           | Wastelands-Scrub land-Dense scrub              |
| Built Up-Built Up (Urban)-Vegetated Area        | Wastelands-Scrub land-Open scrub               |
| Built Up-Mining / Industrial area- Industrial   | Waterbodies-Lakes/ponds-Perennial              |
| Built Up-Mining / Industrial area-Mine/Quarry   | Waterbodies-Reservoir/Tanka-Perennial          |
|   | Waterbodies-River/Stream-Dry                   |
|   | Waterbodies-River/Stream-Perennial             |

**ANNEXURE II**

**SOCIO-ECONOMIC SURVEY DETAILS**

**SOCIO – ECONOMIC DATA OF NONGSOHPHAN VILLAGE UNDER WAH THYLLONG WATERSHED**

Sl. No.	Name of the Head of the Family	Population			Literacy			Occupation	Agriculture Area		Livestock					Annual Income (Rs)
		Male	Female	Total	Literate	Illiterate	Total		Settled (ha)	Jhum (ha)	Cow	Pig	Goat	Poultry	Horse	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	Smt. Klorinda K.thohrem	2	1	3	2	1	3	Cultivator	-	-	Nil		Nil		Nil	14000/-
2	Shri. Sophola K.thohrem	2	3	5	4	1	5	do	√	-	-	2	-		-	40000/-
3	Shri. Donbor Dkhar	1	3	4	4	-	4	do	√	-	-	3	-	4	-	30000/-
4	Smt. Bethlehem K.thohrem	-	2	2	1	1	2	Business	-	-	√	2	-	3	-	50000/-
5	Smt. Erbakos K.thohrem	-	2	2	1	1	2	Cultivator	-	-	-	-	-	2	-	14000/-
6	Smt. Medal Khongwieng	1	4	5	3	2	5	do	√	-	-	2	-	4	-	14000/-
7	Smt. Oris Khongwieng	5	1	6	5	1	6	do	-	-	-	3	-	3	-	14000/-
8	Shri. Shaiphar Dkhar	3	2	5	5	-	5	do	-	-	-	-	-	-	-	14000/-
9	Smt. Rosi Kharluni	4	3	7	5	2	7	do	√	-	-	2	-	5	-	40000/-
10	Smt. Phoskha Kharluni	3	3	6	5	1	6	do	√	-	-	3	-	7	-	30000/-
11	Smt. Jingkysiew Dkhar	3	4	7	6	1	7	do	-	-	-	4	-	9	-	14000/-
12	Smt. Assam Lyngka	3	3	6	3	3	6	do	√	-	-	3	-	4	-	30000/-
13	Smt. Damaion Thangkhiew	2	3	5	4	1	5	do	√	-	-	-	-	8	-	25000/-
14	Shri. Elwinsing Thangkhiew	1	-	1	1	-	1	Teacher	-	-	-	-	-	-	-	25000/-
15	Smt. Wen Khongmalai	7	4	11	10	1	11	Cultivator	√	-	-	-	-	7	-	50000/-
16	Smt. Peittimai K.slom	1	1	2	2	-	2	do	-	-	-	2	-	5	-	20000/-
17	Shri. Aladak Iawlur	5	4	9	7	2	9	do	√	-	-	3	-	4	-	60000/-
18	Shri. Sikwell Iawlur	3	3	6	3	3	6	do	-	-	-	-	-	-	-	15000/-
19	Smt. Phlim Iawlur	2	7	9	7	2	9	do	-	-	-	-	-	-	-	15000/-
20	Smt. Ksur Dkhar	-	2	2	1	1	2	do	-	-	-	3	-	8	-	14000/-
21	Smt. Laitphar Dkhar	3	3	6	3	3	6	do	-	-	-	2	-	6	-	10000/-
22	Shri. Prowell Dkhar	1	-	1	-	1	1	do	√	-	-	-	-	4	-	14000/-
23	Shri. Dinor Khongsait	5	4	9	4	5	9	do	√	-	-	2	-	3	-	14000/-
24	Smt. Phlista K.thohrem	6	4	10	4	6	9	do	-	-	-	3	-	5	-	14000/-
25	Shri. Romeshal K.wieng	4	2	6	3	3	6	do	√	-	-	2	-	9	-	10000/-
26	Shri. Sporious K.wieng	3	2	5	5	-	5	do	√	-	-	-	-	10	-	30000/-



27	Smt. Aishimilian Thohrem	1	3	4	2	2	4	do	√	-	-	3	-	5	-	25000/-
28	Smt. Brolin Khonglam	8	4	12	3	9	12	do	-	-	-	2	-	6	-	10000/-
29	Smt. Aitihun Dkhar	2	5	7	5	2	7	do	-	-	-	2	-	8	-	10000/-
30	Shri. Eldestson Dkhar	2	1	3	2	1	3	do	-	-	-	-	-	-	-	5000/-
31	Smt. Lokhimai Iawlur	1	1	2	1	4	2	do	-	-	-	-	-	-	-	15000/-
32	Smt. Alimai Kharluni	7	6	13	5	8	13	Cultivator	√	-	-	2	-	4	-	30000/-
33	Shri. Skhemlang Kharluni	2	-	2	2	-	2	do	-	-	-	-	-	-	-	25000/-
34	Smt. Lina Khongthah	1	1	2	-	2	2	do	√	-	-	-	-	5	-	15000/-
35	Shri. Laphelin Kharluni	4	1	5	2	3	6	Cultivator	-	-	-	2	-	8	-	14000/-
36	Shri. Drolin Khongru	6	2	8	5	3	8	do	√	-	-	2	-	7	-	14000/-
37	Shri. Bransing Khongthah	1	-	1	1	-	1	do	√	-	-	-	-	5	-	20000/-
38	Smt. Nodi Khongthah	2	1	3	2	1	3	do	√	-	-	-	-	-	-	14000/-
39	Smt. Phli Khongwieng	1	4	5	3	2	5	do	-	-	-	3	-	3	-	10000/-
40	Shri. Pulstar Rymmai	1	5	6	4	2	6	do	√	-	-	2	-	4	-	14000/-
41	Shri. Rojensing Khongsar	2	4	6	3	3	6	do	-	-	-	-	-	6	-	20000/-
42	Shri. Kedrial Khongwieng	4	5	9	6	3	9	do	-	-	-	3	-	9	-	10000/-
43	Shri. Morted Khongkran	6	7	13	9	4	13	do	√	-	-	4	-	3	-	14000/-
44	Smt. Duwari Khongwieng	1	1	2	1	1	2	do	-	-	-	2	-	5	-	6000/-
45	Shri. Malang K.slem	1	-	1	1	-	1	Business	-	-	-	-	-	-	-	40000/-
46	Shri. Evell Khongslom	1	1	2	2	-	2	do	-	-	-	-	-	-	-	20000/-
47	Shri. Bipul Khongwir	9	4	13	11	2	13	Govt. employee	√	-	-	-	-	-	-	50000/-
48	Shri. Francis Khongwieng	2	2	5	5	-	5	Business	√	-	-	3	-	5	-	40000/-
49	Shri. Jomping Dkhar	2	1	3	2	1	3	Cultivator	-	-	-	-	-	10	-	20000/-
50	Shri. Sonet Khongthah	5	2	7	5	2	7	do	√	-	-	2	-	8	-	10000/-
51	Shri. Sobida Lyngka	5	2	7	7	-	7	do	√	-	-	2	-	4	-	16000/-
52	Smt. Elbina Rymmai	2	4	6	4	2	6	do	-	-	-	-	-	5	-	10000/-
53	Smt. Sobitha Khongru	1	2	3	1	2	3	do	√	-	-	-	-	-	-	10000/-
54	Smt. Thrusina K.thohrem	4	1	5	5	-	5	Business	√	-	-	-	-	-	-	25000/-
55	Smt. Theimon K.wieng	4	4	8	6	2	8	Cultivator	-	-	-	-	-	8	-	10000/-
56	Shri. Jiedsing Rymmai	2	5	7	6	1	8	do	√	-	-	-	-	-	-	10000/-



57	Smt. Bakishon Thangkhiew	5	3	8	6	2	8	do	√	-	-	-	-	6	-	25000/-
58	Smt. Jngailin K.wieng	3	1	4	4	-	4	do	-	-	-	-	-	3	-	10000/-
59	Smt. Erkon Khongwieng	4	2	6	3	3	6	do	√	-	-	-	-	10	-	10000/-
60	Shri. Kori Khongsar	1	-	1	-	1	1	do	-	-	-	-	-	-	-	7000/-
61	Shri. Philit Khongslom	1	-	1	-	1	1	do	√	-	-	-	-	5	-	25000/-
62	Smt. Rubina khongru	1	2	3	2	1	3	do	√	-	-	2	-	5	-	17000/-
63	Smt. Daiamon K.ru	3	3	6	5	1	6	do	√	-	-	3	-	8	-	20000/-
64	Smt. Wedina K.ru	3	1	4	4	-	4	do	√	-	-	5	-	6	-	25000/-
65	Shri. Lurshai K.ru	1	-	1	1	-	1	do	√	-	-	-	-	4	-	20000/-
66	Smt. Shmir Khongru	3	3	3	3	-	3	do	√	-	-	4	-	3	-	20000/-
67	Smt. Iusila Khongru	5	4	9	6	3	9	do	-	-	-	2	-	7	-	10000/-
68	Smt. Riphilda Khongru	1	3	4	4	-	4	do	-	-	-	2	-	5	-	9000/-
69	Smt. Shriaw K.slom	6	3	9	6	3	9	Cultivator	√	-	-	3	-	7	-	20000/-
70	Smt. Kynthup K.ru	-	1	1	1	-	1	do	-	-	-	-	-	8	-	20000/-
71	Smt. Rosa K.thohrem	2	3	5	5	-	5	Business	√	-	-	2	-	5	-	25000/-
72	Smt. Kwe Kharluni	1	1	2	1	1	2	Cultivator	√	-	-	4	-	6	-	10000/-
73	Shri. Sliwell Lyngka	3	1	4	4	-	4	Teacher	√	-	-	2	-	5	-	30000/-
74	Smt. Siben K.slem	2	4	6	4	2	6	Cultivator	√	-	-	3	-	7	-	35000/-
75	Smt. Ainam K.slom	1	2	3	3	-	3	do	√	-	-	2	-	9	-	20000/-
76	Smt. Mer Khongslom	3	4	4	3	4	7	do	√	-	-	2	-	5	-	30000/-
77	Shri. Tiplek K.slom	4	5	9	4	5	9	do	√	-	-	3	-	4	-	25000/-
78	Shri. Control K.slom	2	5	7	4	3	7	do	-	-	-	2	-	5	-	10000/-
79	Shri. Bishar Kharluni	3	4	7	6	1	7	do	√	-	-	3	-	6	-	9000/-
80	Shri. Jrain Khongwieng	1	-	1	1	-	1	do	-	-	-	-	-	-	-	9000/-
81	Shri. Kloi Khongslom	1	2	3	2	1	3	do	-	-	-	-	-	-	-	10000/-

**SOCIO ECONOMIC DATA OF NOHWET VILLAGE UNDER WAH THYLLONG WATERSHED IWMP.**

SL NO	NAME OF THE HEAD OF FAMILY	POPULATION			LITERACY			OCCUPATION	AGRICULTURE AREA		LIVESTOCK					ANNUAL INCOME
		MALE	FEMALE	TOTAL	LITERATE	ILLITERATE	TOTAL		SETTLED	JHUM	COW	PIG	GOAT	POULTRY	HORSE	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	Ronalson K. Kram	2	2	4	3	1		Labour				3		5		
2	Iseemary Thangkhiew	2	3	5	4	1		Labour				2		4		
3	Longsuk K. Kram		3	3	3			Farmer				-		-		
4	Kless Thangkhiew	6	4	10	8	2		Labour				4		6		
5	Plur Rymmai	1	7	8	6	2		Farmer				-		-		
6	Syndormai Rymmai	2	1	3	3			Farmer				2		7		
7	Shiningmoon K. Kram	2	9	11	10	1		Farmer				2		8		
8	Hirmon K. Tiang	1	4	5	2	2		Labour				-		-		
9	Butter K. Tiang	1	2	3	2	1		Labour				-		-		
10	Noshi Sumer	2	2	4	3	1		Farmer				3		9		
11	Dalimai Dkhar	2	1	3	2	1		Labour				-		-		
12	Phedilis Dkhar	2	2	4	4							-		-		
13	Jingkyrmen K. Liar		1	1	1			Labour				2		7		
14	Raimon K. Thohrem	1		1	1			Labour				4		3		
15	Bransi Khongji	2	2	4	3	1		Teacher				2		5		
16	Hedingson K. Sdam	1	2	3	2	1		Farmer				-		-		
17	Kipdar K. Sdam	2	2	4	4							-		-		
18	Rilen Khongthohrem	1	1	2		2		Labour				2		5		
19	Ephastone Khongtiang	3	8	11	10	1		Farmer				3		-		
20	Merin Khongsar	3	5	8	7	1		Farmer				3		-		

21	John Khonhsdam	3	4	7	5	2		Labour				--		4		
22	Trit Khongsar	5	5	10	8	2		Labour				-		5		
23	Risalyne Khongthohrem		2	2	1	1		Labour				-		6		
24	Meston Kongwang	5	4	9	9			Farmer				2		7		
25	Halibarton Khongsdam	4	1	5	5			Farmer				2		-		
26	Sketerjune Khongsar	1		1	1			Labour				2		9		
27	Risi Khongsar	3	1	4	3	1		Labour				-		10		
28	Kengan Khongthohrem	2	1	3	2	1		Labour				3		8		
29	Aitishisha Tham	1	4	5	4	1		Labour				2		-		
30	Ormilis Tham	2	1	3	3			Labour				2		4		
31	Blentume Khongthiang	2	4	6	5	1		Farmer				2		6		
32	Ering Tham	1		1		1		Farmer				4		5		
33	Prilisi Tham	3	6	9	7	2		Farmer				2		8		
34	Phainar Khongthohrem	3	3	6	4	2		Labour				2		-		
35	Rolen Khongji	5	4	9	7	2		Labour				2		5		
36	Krut Malai	4	6	10	8	2		Farmer				3		7		
37	Kewer Dkhar	1	2	3	3			Farmer				-		4		
38	Phlorida K. Kram	2	4	6	5	1		Farmer				4		-		
39	Lantu Khongthohrem	2	4	6	5	1		Farmer				2		-		
40	Neshon Tham	3	7	10	8	2		Labour				3		3		
41	Longkniat K. Liar	2	8	10	7	3		Labour				-		6		
42	Khuid K. Liar	1	3	4	3	1		Farmer						9		
43	Remington K. Kram	2	2	4	3	1		Labour				-		10		
44	Hellem Khongthohrem	3	2	5	5			Labour				-		---		
45	Lobik Thohrem		1	1		1		Farmer				--		-		
46	Morila K. Sar		1	1		1		Labour				-		-		
47	Symbol Lyngka	4	2	6	4	2		Farmer				-		5		
48	Best Prince Khongji	1	3	4	4			Labour				-		6		
49	Wesi K. Kram	1	1	2	1	1		Farmer				-		5		
50	Shidalyne K. Kram	2	4	6	5	1		Labour				-		4		

51	Drungwell K. Kram	1		1	1			Farmer				2		6		
52	Drangwell K. Kram	1		1	1			Farmer				-		7		
53	Kewir K. Lam	3	6	9	9			Labour				4		6		
54	Justin K. Luni	2	5	7	7			Labour				-		8		
55	Korbar K. Liar	1	2	3	2	1		Farmer				-		8		
56	Bhamon K. Kram	1	3	4	4			Labour				-		9		
57	Doris K. Kram		1	1	1			Farmer				3		4		
58	Moonsoon K. Sni	5	6	11	10	1		Farmer				-		-		
59	Kyrpang K. Kram	2	5	7	6	1		Farmer				-		-		
60	Dring K. Kram	1		1		1		Farmer				-		3		
61	Khwian Khongsait	4	5	9	7	2		Farmer				-		5		
62	Only K. Slom		1	1		1		Labour				-		-		
63	Aibor K. Thohrem	4	1	5	5			Labour				-		-		
64	Wellin Lyngka	2		2	1	1		Farmer				3		10		
65	Baion K. Tim	4	2	6	5	1		Farmer				-		-		
66	Sweety Sohtun	4	4	8	8			Farmer				-		-		
67	Dominic K. Luni	2	2	4	4			Farmer				-		-		
68	Armstrong Dkhar	2		2	2			Labour				4		8		
69	Lengdu Kharluni	1	2	3	2	1		Labour				-		-		
70	Migbha Khonglar		4	4	3	1		Labour				-		-		
71	Brasil Dkhar	2	3	5	4	1		Labour				-		-		
72	Carefully Khongsdam		3	3	2	1		Labour				2		-		
73	Rut Khongting	3	6	9	9			Labour				-		-		
74	Shanlem Khonglor	4	4	8	7	1		Labour				-		-		
75	Idoririn Khonglar	3	4	7	5	2		Labour								
76	Hodson Khongthiam	2	3	5	4	1		Labour				-		-		
77	Songti Khongthah	1	3	4	4			Labour				2		5		
78	Kne Khongting	2	1	3	2	1		Labour				-		-		
79	Eriwell Khongthohrem	1		1	1			Labour				-		-		
80	Erlin Khongsar	5	7	12	10	2		Labour				-		-		

81	Sortimai Khongwiang	3	4	7	6	1		Farmer				-		5		
82	Master Khongsar	7	6	13	12	1		Labour				-		-		
83	Wistopher Phin	6	2	8	8			Labour				-		6		
84	Syndah Khongji	2	1	3	2	1		Labour				-		-		
85	Riat Khongji		5	5	2	3	5	Labour				-		-		
86	Mait Khongji	2	3	5	1	4	5	Labour				-		-		
87	Iuma K. Thah	1	3	4	1	3	4	Labour				2		8		
88	Lowing K. Ting	1	2	3	2	1	3	Labour				-		4		
89	Edmon K. Sar	6	4	10	4	6	10	Labour				-		5		
90	Mobarek K. Thah	3	4	7	2	5	7	Labour				-		7		
91	Shitrak Marak	6	2	8	1	7	8	Labour				-		-		
92	Larki K. Thiang	4	2	6	1	5	6	Labour				2		-		
93	Wiang K. Wir	4	1	5	2	3	5	Labour				-		9		
94	Berina Dkhar	4	5	9	7	2	9	Labour				-		-		
95	Kermalias	2	1	3	1	2	3	Farmer				-		-		
96	Apsait K. Kram	3	4	7	2	5	7	Farmer				-		-		
97	Starlin K. Min	6	3	9				Labour				-		-		
98	Jamin K. Thiem	3	2	5	1	4	5	Labour				3		4		
99	Madras K. Thohrem	1	2	3	1	2	3	Labour				-		-		
100	Noret K. Kram	1	2	3	1	2	3	Labour				-		6		
101	Henri K. Malai	5	4	9	6	3	9	Farmer				-		5		
102	Mathaios Khongthiang	1		1		1	1	Farmer				-		7		
103	Streamlet Thabah	2	5	7	3	4	7	Farmer								
104	Dena Thabah	4	3	7	2	5	7	Labour								
105	Espiwell Khongji	9	2	11	10	1	11	Farmer				3		-		
106	Samson Khongsar	1	1	2		2	2	Labour				2		-		
107	Admition Khongji	6	6	12	9	3	12	Labour				4		8		
108	Mortina Khonglam	3	6	9	4	5	9	Labour				-		10		
109	Jiedmon Khonglam	1	1	2	2		2	Labour								
110	Iabiang Khongji	1		1		1	1	Labour				-		12		

111	Sma Khongkrom	4	1	5	2	3	5	Farmer				-		-		
112	Elsis Khongkrom	2		2	1	1	2	Labour				-		-		
113	Teibor Khongkrom	1		1	1		1	Labour				-		--		
114	Iohmon Khongji	4	4	8	4	4	8	Labour				--				
115	Jewelson Khongthohrem	2	4	6				Labour				3		5		
116	Sadmon Khongtiang	3	4	7	3	4	7	Labour				-		4		
117	Antori Mawroh	1	5	6	4	2	6	Farmer				3		6		
118	Saihon Khongthohrem	1	5	6	3	3	6	Farmer				-		7		
119	Hari Khongthohrem	2		2	1	1	2	Farmer				-		-		
120	Phren Khongtani	3	2	5	1	4	5	Farmer				-		-		
121	Gorinda Khongtiang	3	4	7	2	5	7	Labour				3		6		
123	Dispar Khongtiang	4	6	10	3	7	10					-		5		
124	Temple Khongji	1	4	5	2	3	5	Labour				-		5		
125	Shemphang Khongsdam	2	3	5	1	4	5	Farmer				-		5		
126	Merelin Khonglanoh	1	1	2	1	1	2	Labour				4		-		
127	Regina Khonglanoh	5	3	8	3	5	8	Farmer				-		-		
128	Hep Kharluni	2	3	5	1	4	5	Labour						7		
												-		<b>8</b>		
129	Nong Khonglanoh	4	3	7	3	4	7	Farmer				-		8		
130	Oversee Khongthohrem	3	5	8	2	6	8	Farmer						9		
131	Hiak Khongsar	7	3	10	5	5	10	Farmer				-		7		
132	Stanwell Khongtiang	2	4	6	3	3	6	Labour				-		6		
133	Aiwell Khongtiang	1	3	4	1	3	4	Labour				3		-		
134	Shotshill Khongtiang	2		2		2	2	Labour								
135	Weiking Khongtiang	3	3	6	2	4	6	Farmer				3		-		
136	Sidha Thabah	3	1	4	2	2	4	Labour				-		-		
137	Rynnoh Khongji	1				1	1	Labour				-		-		
138	Lurmiet Kharluni	1				1	1	Labour				-				
139	Dising Thohrem	1		1		1	1	Labour				-		5		
140	Nakhisor Thohrem		1	1		1	1	Farmer				-		<b>6</b>		

141	Banabari Tynsong		2	2	2		2	Labour				-		8		
142	Beit Khongsait		2	2	1	1	2	Labour				-		10		
143	Kalnesson Dkhar	1		1		1	1	Labour				-		9		
144	Ominal	1		1		1	1	Labour				-		5		
145	Phuson K. Knaw	3	4	7	6	1	7	Labour				2		4		
146	Forget Mawiong	2	2	4	2	2	4	Labour				2		6		
147	Minora K.Lam	1	1	2	1	1	2	Labour				3		8		
148	Isi Khongthohrem	6	4	10	8	2	10	Farmer				-		-		
149	Warbon Dkhar	7	3	10	8	2	10	Farmer				-		-		
150	Kale Gurung	4	3	7	3	4	7	Labour				3		7		
151	Darling Khongsar	1		1		1	1	Labour				-		-		
151	Enjis Dkhar	2	1	3	2	1	3	Labour				4		5		
153	Bitlinwell Khongthim	8	4	12	8	4	12	Farmer				-		-		
154	Berin Khongsar	1	2	3	1	2	3	Labour				2		-		
155	Blipson Khongkram	2	5	7	5	2	7	Farmer				2		9		
156	Snir Khongsar	3	4	7	5	2	7	Farmer				3		-		
157	Rhiem Khongsalir	3	2	5	4	1	5	Farmer				3		10		
158	Donlad Khongtiang	4	2	6	3	3	6	Labour				-		-		
159	Lamphrang Khongthohrem	6	3	9	6	3	9	Govt. Service				2		5		
160	Phaslan Khongsar	6	2	8	5	3	8	Labour				-		-		
161	Bilon Diengdoh	1	2	3	2	1	3	Farmer				-		-		
162	Heroi Khongmen	4	4	8	6	2	8	Labour				2		5		
163	Raising Khongtiang	5	5	10	7	3	10	Farmer				--		-		
164	Mikir Khonglanoh	5	2	7	4	3	7	Farmer				2		5		
165	Shri. Sorbelan Thabah	3	3	6	4	2	6	Labour				3		6		
166	Shri. Kranly Dkhar	8	4	12	4	8	12	Labour				-		6		
167	Shri. Kyrmenkhem K. Kram	1		1		1	1	Farmer				-		7		
168	Oren Khongnoh	5	3	8	4	4	8	Driver				2		-		
169	Lariti Khongkrem	4	4	8	6	2	8	Farmer				-		8		
170	Sinik Khongkram	5	4	9	7	2	9	Farmer				-		10		

171	Sison Khongthohrem	1		1		1	1	Labour				-		3		
172	Phikir Khongkram	1		1		1	1	Farmer				-		--		
173	Diborwell Khongkram	2	2	4	2	2	4	Labour				-		-		
174	Sishon Khonglah	1		1		1	1	Labour				4		5		
175	Donkupa Khongsar	2	3	5	2	3	5	Farmer				-		4		
176	Elias Khongtiang	2	3	5	4	1	5	Farmer				-		5		
177	Dibarwell Khongsar	2	6	8				Labour				-		5		
178	Lington Khongsar	1		4	1		1	Service				4		-		
179	Wanphrang Tangsong	4	2	6	4	2	6	Labour				-		5		
180	Honi Khongtiang	2	2	4	2	2	4	Farmer				3		4		
181	Masta Khongthohrem	5	4	9	5	4	9	Labour				-		4		
182	Dinowell Khonglanoh	2	2	4	1	3	4	Labour				3		5		
183	Romilian Khongthohrem	1	2	3	1	2	3	Labour				-		-		
184	Staimanik Thabah	3	5	8	4	4	8	Labour				2		-		
185	Slin Khongsar	6	1	7	3	3	6	Labour				-		-		
186	Jren	1	1	2	1	1	2	Labour				-		-		
187	Alesen Khonglam	5	12	17	5	12	17	Labour				2		7		
188	Ialarbha Khongthohrem		2	2		2	2	Labour				-		-		
189	Lucymon Khongthohrem	4	6	10	3	7	10	Labour				2		6		
190	Drushon Khongsar	4	1	5	2	3	5	Labour				2		3		
191	Brightstar Khongthiem	3	4	7	3	4	7	Teacher				2		5		
192	Akbor Khongji	2	2	4	1	3	4	Teacher				-		-		
193	Khlung Khongmen	8	9	17	5	12	17	Teacher				4		8		
194	Parlibon Khongthohrem	2	4	6	3	3	6	Teacher				-		-		
195	Phlak Khongwir	1	1	2	1	1	2	Teacher				-		-		
196	Lesporting Dkhar	7	6	13				Teacher				-		-		
197	Burmangkara Khongthohrem	5	4	9	4	5	9	Teacher				-		8		
198	Biio Khongknaw	2	2	4	3	1	4	Teacher				-		8		
199	Jin Khongtiang	2	1	3	1	2	3	Labour				-		8		
200	Shai Dkhar	2	4	6	2	4	6	Labour				-		-		



201	Pynma Khongthohrem	5	3	8	5	3	8	Labour				-		-		
202	Mingson Khongkrom	2	4	6	1	5	6	Labour				-		-		
203	Kiarlin Khongsar	2	2	4	2	2	4	Labour				-		-		
204	Mortimon Khongsar	1	2	3	1	2	3	Labour				-		-		
205	Shohmon Khongkrom	1	1	2	1	1	2	Labour				-		-		
206	Nangtei Khongthah	1		1		1	1	Labour				-		-		
207	Risbin Khongji	3	4	7	4	3	7	Labour				2		7		
208	Phannistar Kharduia	7	4	11	10	1	11	Labour				4		12		
209	Kaweh Khongthah	4	3	7	3	4	7	Farmer				2		4		
210	Premanan Khonglam	2	2	4	2	2	4	Farmer				-		-		
211	Pynneh Khongji	3	4	7	5	2	7	Farmer				2		6		
212	Deranan Khongji	3	6	9	6	3	9	Farmer				-		-		
213	Pilasstone Khongtiang	6	4	10	6	4	10	Farmer				-		-		
214	Phit Khongtiang	7	5	12	8	4	12	Farmer				-		8		
215	Bisno Khonglanoh	2	5	7	4	3	7	Farmer				-		-		
216	Bitroy Khongru	9	5	14	10	4	14	Labour				-		7		
217	Japur Khongsar		2	2		2	2	Labour				-		--		
218	Noble Khongsar	3	1	4		4	4	Labour				-		10		
219	Denis Dkhar	4	6	10	4	6	10	Labour				-		-		
220	Kolington K. Lar	9	9	18	7	11	18	Labour				-		7		
221	Spuker Khongji	3	4	7	4	3	7	Labour				-				
222	Men Kharduia	3	2	5	2	3	5	Labour				-		6		
223	Kyntiak	4	1	5	1	4	5	Labour				-		---		
224	Shynnam Thohrem	2	2	4	2	2	4	Labour				-		6		
225	Monphor Khongsdam	5	4	9	9		9	Labour				-		-		
226	Pynsho Khongji	1	3	4	3	1	4	Labour				-		5		
227	Mando Marak	4	3	7	3	4	7	Labour				-		-		
228	Enowell dkhar	2	3	5	5		5	Labour				-		-		
229	Pyntngenlang Khongsar	4	3	7	7		7	Labour				-		5		
230	Bhim Chakraborty	2	3	5		5	5	Labour				-		-		

231	Tilin Thohrem	1	1	2		2	2	Labour				-		-		
232	Robert Khongsar	2	1	3	3		3	Labour				-		4		
233	Eldi Khongsar	4	4	8	3	5	8	Labour				-		10		
234	Pheriwell Khongthohrem	1		1		1	1	Labour				-		5		
235	Konjo Khongsar	6	2	8	2	6	8	Labour				-		6		
236	Beter Khongmen	5	1	6	2	4	6	Labour				4		10		
237	Dallipur Khongsar	4	3	7	3	4	7	Labour				2		-		
238	Samitra Khongsar	1	4	5	4	1	5	Labour				3		-		
239	Bless Khongsdam	3	2	5	4	1	5	Labour				3		-		
240	Ila Khongsar	2	3	5		5	5	Labour				-		-		
241	Larmon Khongtiang	4	2	6	3	3	6	Labour				-		-		
242	Blentino Khongsdam	4	3	7	5	2	7	Labour				-		-		
243	Emlin Khongkrom	2	1	3	1	2	3	Labour				-		-		
244	Erut Khongsar	1		1		1	1	Labour				-		-		
245	Stiwell K. Slom	3	6	9	5	4	9	Labour				-		4		
246	Rangdabit Khongtiang	1	3	4	4		4	Labour				-		6		
247	Aiei Khongsar	1	1	2		2	2	Labour				-		5		
248	Hitashi Khongsni	3	2	5	2	3	5	Labour				-		5		
249	Donal Khongtiang	5	3	8	3	5	8	Labour				-		4		
250	Nokobi Khongsni	1	3	4	3	1	4					-		5		
251	Shanbor Khongsdam	1		1	1		1	Labour				-		5		
252	Siona Khongsar	6	5	11	2	9	11	Labour				-		-		
253	Younita Khongsar		1	1	1		1	Teacher				2		6		
254	Edveen Khongsar	2	4	6	6		6	Labour				-		6		
255	Joswell Thabah	5	3	8	5	3	8	Labour				-	-	7		
256	Pubon K. Knaw	2	3	5		5	5	Labour				-		5		
257	Shon Khongsar	4	5	9		9	9	Labour				-		5		
258	Minot K. Dkhar	1	2	3		3	3	Labour				-		5		
259	Elbit Thabah	5	1	6	3	3	6	Labour				-		-		
260	Shru Khongtiang	1		1		1	1	Labour				-		4		

261	Plekor Khongtiang	2	3	5	2	3	5	Labour				-		4		
262	Kusum Khongtiang	3	5	8	2	6	8	Labour				2		6		
263	Sen Khongtiang	2	3	5	2	3	5	Labour				2		7		
264	Wanlang Thohrem	2	3	5	2	3	5	Labour				-		-		
265	Royalbor K. Krom	4	4	8	4	4	8	Labour				-		5		
266	Balwin	5		5		5	5	Labour				-		8		
267	April Warbon	2	1	3	1	2	3	Farmer				3				
268	Hopefull K. Lar	2	2	4	2	2	4	Farmer				-		-		
269	Borwell Sohkut	4	2	6	3	3	6	Labour				-		10		
270	Rakhie K. Thohrem	2	6	8	3	5	8	Labour				3				
271	Ebin Thohrem	5	4	9	4	5	9	Labour				-		12		
272	Sharaboy Khongsni	2	1	3	1	2	3	Labour				3		-		
273	Barit Khongsni	2	3	5	2	3	5	Labour				-				
274	Dephender K. Krom	2	2	4	3	1	4	Labour				-		10		
275	Kisli Lyngka	1	2	3	2	1	3	Farmer				-		-		
276	Shalles Dkhar	4	1	5	3	2	5	Farmer				-		-		
277	Syntiew Khongsar	4	2	6	3	3	6	Farmer				-		-		
278	Keisar K. Lanoh	3	2	5	2	3	5	Labour								
279	Pharbha K. Lar	3	5	8	6	2	8	Labour				2		-		
280	Lasper Lyngka	4	2	6	5	1	6	Labour				3		-		
281	Pitimai Tynsong		2	2	1	1	2	Labour				-		-		
282	Ksuin K. Sait		1	1		1	1	Labour				-		-		
283	Binut Thohrem							Labour				-		-		
284	Lidar Bahkhiew	2	2	4				Labour				-		-		
285	Lordkong Khongsdam	1		1	1		1	Teacher				-		-		
286	Mortina Khonghiar	6	8	14	5	9	14	Labour				-		-		
287	Ribiewla Khongji	8	2	10	7	3	10	Labour				-		-		
288	Larjot Khongru	3	3	6	4	2	6	Farmer				-		-		
289	Wirson Kharsar	1		1	1		1	Labour				-		-		
290	Running Khongsar	3	3	6	2	4	6	Labour				-		-		

291	Panila Khongji		1	1		1	1	Labour				-		-		
292	Onirla Khongji	5	6	11	4	7	11	Labour				-		-		
293	Koborhil Khongji	3	1	4	2	2	4	Labour				-		-		
294	Malik Khongji	1		1		1	1	Labour				-		-		
295	Senika Khongji	1		1	1		1	Labour				-		-		
296	Ishroi K. Liar	5	2	7	4	3	7	Labour				-		-		
297	Tirotsing K. Sdam	2	3	5				Farmer				2		-		
298	Charles Khonglam	6	3	9	6	3	9	Labour				-		-		
299	Sboh Khongsar	1	5	6	4	2	6	Labour				2		-		
300	Siprion Dkhar	3	5	8	4	4	8	Labour				2		-		
301	Silas Dkhar	4	3	7	3	4	7	Labour				-		-		
302	Benalson Khongsar	3	2	5	1	4	5	Labour				-		-		
303	Dipoti Khongshei	7	2	9	3	6	9	Labour				-		-		
304	Phlas Khongyang	3	1	4	2	2	4	Labour				-		-		
305	Matrial K. Thohrem	4	4	8	3	5	8	Labour				-		-		
306	Bilom Khongthohrem	5	5	10	4	6	10	Labour				-		-		
307	Mitina Khonglanoh	2	2	4	2	2	4	Labour				-		-		
308	Ep Jakteng	2	2	4	1	3	4	Labour				-		-		
309	Syrpailin Khonglanoh	2	3	5	2	3	5	Labour				--		-		
310	Nobleson Khongdar	1	2	3	1	2	3	Labour				-		-		
311	Dramson Khongsar	4	1	5	3	2	5	Labour				-		-		
312	Rangkynsai Khongsumi	1	6	7	3	4	7	Labour				-				
313	Sngiew Khongknaw	1		1		1	1	Labour				-		-		
314	Thubiang Khongthah	2	2	4				Labour				-				
315	Motilar Khongsar	1		1	1		1	Labour				-		-		
316	Phah Khongsdam	1		1		1	1	Labour				-		-		
317	Lospar Lyngka	4	2	6	5	1	6	Labour				-		-		
318	Kommerla Khongji	2	3	5	1	4	5	Labour				-		-		
319	Shan Khongyang	2	1	3	1	2	3	Labour				-		-		

320	Nangroi Khongthat	1	2	3	1	2	3	Labour				-		-		
321	Sonil Khonglanoh	1	1	2	1	1	2	Labour				-		-		
322	Hating Khongtiang	2	3	5	1	4	5	Labour				-		-		
323	Pli Khonglam	2	1	3	1	2	3	Labour				-		-		
324	Nowir Khongthiem	3		3	2	1	3	Labour				-		-		
325	Rasmekan K. Wieng	2	1	3	1	2	3	Labour				-		-		
326	Mynthna Khonglanoh	3	1	4	1	3	4	Labour				-		-		
327	Wari Mawroh	1	2	3	1	2	3	Labour				-		-		
328	Justment Khongkrom	2	3	5	2	3	5	Labour				-		-		
329	Isap Khongji	1		1		1	1	Labour				-		-		
330	Sobimon K. Thohrem	4	9	13	10	3	13	Labour				-		-		
331	Bhalang K. Thohrem	3	4	7	3	4	7	Labour				-		-		
332	Aiborlang Pyngrope	3	3	6	2	4	6	Labour				-		-		
333	Shanniwell Khongji	1		1		1	1	Labour				--		-		
334	Phong Khongtiang	3	6	9	5	4	9	Labour				-		-		
335	Tomson Lyngka	4	3	7	3	4	7	Labour				-		-		
336	Rosmila K. Dkhar	3	2	5	2	3	5	Labour				-		-		
337	Kolom Tongsong	5	5	10	6	4	10	Labour				-		-		
338	Skonwell Khongji	4	2	6	4	2	6	Labour				-		-		
339	Iada Khongsdam	3	2	5	2	3	5	Labour				-		-		
340	Phidarmis Khongsdam	2	1	3	1	2	3	Labour				-		-		
341	Monlang K. Krom	3	1	4	1	3	4	Labour				-		-		
342	Wonderful K.Sdam	2	1	3	1	2	3	Labour				-		-		
343	Sottila K. Sdam	4	1	5	4	1	5	Labour				-		-		
344	Welles Nongstein	2	3	5	4	1	5	Labour				-		-		
345	Gracily Khongji	6	3	9	7	2	9	Labour				-		-		
346	Let Dkhar	4	6	10	8	2	10	Labour				--				
347	Kismir K. Tiang	2	5	7	3	4	7	Labour				-		-		
348	Piasbimowell K. dive	3	3	6	4	2	6	Labour				-		-		
349	Hobet K. Sar	4	2	6	4	2	6	Labour				-		-		

350	Shrap Khongsar	3	7	10	7	3	10	Labour				-		-		
351	Phron Khongjawer	7	3	10	8	2	10	Labour				-		-		
352	Leshtonal Khongthohrem	1		1		1	1	Labour				-		-		
353	Rojma Khongthohrem	1	3	4	1	3	4	Labour				-		-		
354	Hopingstone Khongthohrem	3	5	8	4	4	8	Labour				-		--		
355	Wanlang Khongthohrem	4	5	9				Labour				-		-		
356	Pynbitmon Khongthah	1	4	5	2	3	5	Labour				-		-		
357	Imei Khongkrom	3	2	5	1	4	5	Labour				-		-		
358	Kmenlang Khongkram	2	1	3	2	1	3	Labour				-		-		
359	Motiphas Dkhar	3	2	5	2	3	5	Labour				-		-		
360	Kir Khongthah	5	2	7	2	5	7	Labour				-		-		
361	Tresing Khongkrom	2	7	9	4	5	9	Labour				-		-		
362	Slem Khongtiang	1	4	5	2	3	5	Labour				--		-		
363	Nylla Khongthiem	2	4	6	2	4	6	Labour				-		-		
364	Shynshar Khongthiem	1	2	3	1	2	3	Labour				-		-		
365	Tilaksing K. Sdam	2	2	4	3	1	4	Labour				-		-		
367	Bhabok K. Liar	1		1	1		1	Labour				-		-		
368	Banar K. Krom	1		1		1	1	Labour				-		-		
369	Jespar Tyngsong	6	4	10	8	2		Labour				-		-		
370	Erenstone Tynsong	5	2	7	7			Labour				-		-		
371	Kurit Dkhar	3	2	5	3	2		Labour				-		-		
372	Sikhonders K. wieng	3	3	6	6			Govt. Service				3		--		
373	Oringson K. Sar	1	1	2	1	1		Labour				-		-		
374	Ebermor K. Sar	3	1	4	3	1		Labour				-		-		
375	Bing Thohrem	7	7	14	12	2		Labour				-		-		
376	Noribon K. Tiang	4	2	6	4	2		Labour				-		-		
377	Majring Khongji	2	2	4	4			Labour				-		-		
378	Mason K. Tiang	3	3	6	5	1		Labour				-		-		
379	Polodrin K. Lar	1	2	3	1	2		Labour				-		-		
380	Jet Mawiang	4	2	6	5	1		Labour				-		-		

381	Parkar Tyngsong	4	3	7	5	2		Labour				-		-		
382	Hermon Thohrem	1	1	2	1	1		Labour				-		-		
383	Jngimai K. Lar	3	5	8	8			Labour				--		--		
384	Drian K. Sait	3	5	8	8			Labour				-		-		
385	Trila Tyngsong	4	3	7	5	2		Labour				-		-		

**SOCIO ECONOMIC DATA OF NONGTHYMMAI VILLAGE UNDER WAHTYLLONG WATERSHED IWMP.**

SL N O	NAME OF THE HEAD OF FAMILY	POPULATION			LITERACY			OCCUPATION	AGRICULTURE AREA		LIVESTOCK					ANNUAL INCOME
		MALE	FEMALE	TOTAL	LITERATE	ILLITERATE	TOTAL		SETTLED	JHUM	COW	PIG	GOAT	POULTRY	HORSE	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	Shri. Debren Khongiang	1		1	1		1	Master (PHE)						10		35,000
2	Smt. Losimai Khongdup	2	4	6	5	1	6	Labourers				2		5		25,000
3	Smt. Pali Khongdup	3	2	5	5		5	Labourers				3		8		12,000
4	Shri. Baison K. Thohrem	3	4	7	7		7	Farmers		Jhum		2		7		90,000
5	Shri. Wiki Khongdup	1	4	5	5		5	Farmers		Jhum		2		6		25,000
6	Smt. Bijenty Khongdup	3	2	5	5		5	Labourers				3		4		75,000
7	Shri. Lmiar Khongtiang	2	3	5	4	1	5	Labourers				4		3		15,000
8	Smt. Kobarmon khongdup	2	4	6	6		6	Labourers				2		5		12,000
9	Shri. Phrut Khongtiang	2	3	5	4	1	6	Farmers	Settled			3		7		50,000
10	Shri. Ejen Khonglanoh	2		2	1	1	2	Labourers				-		10		6,000
11	Smt. Silong Khongtiang		2	2	2		2	Labourers				-		12		7,000
12	Shri. Jirang Binan	2	3	5	5		5	Labourers				2		4		20,000
13	Shri. Bud Khonglanoh	3	1	4	4		4	Labourers				3		5		15,000
14	Shri. Ehbok Khongsdam	2	1	3	3		3	Farmers				-		6		20,000
15	Shri. Teibor Khongji	6	2	8	7	1	8	Farmers				3		4		80,000
16	Shri. Kmenlang Khongdup	1	2	3	3		3	SSA Teacher				-		-		72,000
17	Smt. Twenty Khongdup	2	5	7	6	1	7	Labourers				2		4		15,000
18	Shri. Hoson Khongji	3	6	9	8	1	9	Labourers				2		6		20,000



**SOCIO – ECONOMIC DATA OF RIWAI VILLAGE UNDER WAH THYLLONG WATERSHED**

Sl. No.	Name of the Head of the Family	Population			Literacy			Occupation	Agriculture Area		Livestock					Annual Income
		Male	Female	Total	Literate	Illiterate	Total		Settled	Jhum	Cow	Pig	Goat	Poultry	Horse	
									(ha)	(ha)						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	Bastino Khonglanoh	1	2	3	3	NIL	3	Cultivator	2			3		1		9000/-
2	Teilang Khongmawlah	2	1	3	2	1	3	do	-			2		10		9000/-
3	Molyne Longkading	2	1	3	2	1	2	do	-			1		NIL		9000/-
4	Discical Khongjee	5	3	8	8	NIL	8	do	2			6		6		8000/-
5	Koistar Tangsong	2	4	6	6	NIL	6	do	-			NIL		NIL		24,000/-
6	Diamond Khongmen	1	NIL	1	1	NIL	1	do	2			NIL		NIL		10000/-
7	Noben Khongmen	5	2	7	4	3	7	do	3			NIL		7		10000/-
8	Bolwind M.ngap	3	3	6	5	1	6	do	-			1		1		9000/-
9	Bines M.ngap	2	2	4	4	NIL	4	do	-			3		4		9000/-
10	Pilot Khongsar	2	5	7	6	1	7	do	-			2		1		9000/-
11	Shailan Khongyang	5	3	8	7	1	8	do	-			NIL		5		9000/-
12	Nober Khongthiem	NIL	1	1	NIL	1	1	do	-			NIL		2		3000/-
13	Rimon Khongmen	3	2	5	4	1	5	do	3			NIL		3		5000/-
14	Fastidian M.ngap	3	1	4	4	NIL	4	Teacher	-			3		1		20000/-
15	Shempor Khongthiem	3	3	6	5	1	6	Cultivator	2			1		5		9000/-
16	Judina M.ngap	2	1	3	2	1	3	do	1			-		16		9000/-
17	Neral Khongmen	1	NIL	1	NIL	1	1	do	2			NIL		NIL		9000/-
18	Sahit Khongrymmai	4	2	6	6	NIL	6	do	2			NIL		17		10000/-
19	Notila Khongyang	3	1	4	4	NIL	4	do	2			NIL		NIL		7000/-
20	Tom	4	3	7	6	1	7	do	1			NIL		6		9000/-
21	Herkules Khongthohrem	4	6	10	9	1	10	do	3			3		2		9000/-
22	Sikron Khongyang	1	NIL	1	NIL		1	do	-			NIL		9		9000/-
23	Synei Khongyang	NIL	1	1	NIL		1	do	2			NIL		NIL		

24	Phisonstar Marbianiang	2	3	5	4	1	5	do	1			NIL		NIL		7000/-
25	Mela Khongthohrem	2	3	5	5	NIL	5	do	1			NIL		7		4000/-
26	Bailes Khongthiem	1	1	2	2	NIL	2	do	3			NIL		2		10000/-
27	Trimai Khongjrang	4	5	9	9	NIL	9	do	2			NIL		1		10000/-
28	Khorit Khongjrang	1	1	2	1	NIL	2	do	2			1		NIL		5000/-
29	Biphal Khongjrang	3	3	6	6	-	6	do	3			2		6		12000/-
30	Tyrphot Khongyang	2	1	3	2	1	3	do	3			3		10		12000/-
31	Sylhet Khongsit	3	4	7	6	1	7	do	-			NIL		NIL		9000/-
32	Bijor Khongyang	2	5	7	6	1	7	Cultivator	1			NIL		NIL		9000/-
33	Japhet Khongjee	3	3	6	6	NIL	6	do	2			5		20		9000/-
34	Howel Khongmawlah	1	NIL	1	NIL		1	do	-			NIL		NIL		9000/-
35	Hiroi Khongsit	3	1	4	3	1	4	do	1			NIL		NIL		9000/-
36	Bliso Khongthiem	4	4	8	5	3	8	do	3			NIL		NIL		10000/-
37	Jrupsimai Khongthiem	2	1	3	3	NIL	3	do	2			NIL		NIL		10000/-
38	Indiso Khongthiem	5	7	12	11	1	12	do	3			NIL		1		10000/-
39	Badalwell M.ngap	5	3	8	8	NIL	8	do	3			2		6		10000/-
40	Early Khongtiang	1	4	5	4	1	5	do	-			NIL		NIL		9000/-
41	Horsi Khongjrang	6	2	8	7	1	8	do	3			1		1		10000/-
42	Keh Khongyang	4	4	8	7	1	8	do	2			NIL		1		20000/-
43	Mathi Diengdoh	3	5	8	8	NIL	8	do	2			2		2		20000/-
44	Kowing Khongmawlah	4	2	6	5	1	6	do	-			NIL		7		9000/-
45	Handly Khongjrang	4	3	7	7	NIL	7	do	-			NIL		2		5000/-
46	Bhun Khongmen	4	5	9	9	NIL	9	do	3			4		12		10000/-
47	Therin Khongyang	NIL	2	2	2	NIL	2	do	-			5		NIL		5000/-
48	Brek K.tham	2	3	5	4	NIL	4	do	-			NIL		4		2000/-
49	Bombel G.rod	6	9	15	14	1	15	do	1			1		10		9000/-
50	Kyior Kharduni	8	2	10	8	2	10	do	2			2		8		9000/-
51	Starlin K.thiem	1	NIL	1	1	NIL	1	do	2			NIL		NIL		9000/-
52	Wansing	4	2	6	3	3	6	do	-			2		3		9000/-
53	Bobina M.ngap	2	4	6	5	1	6	Asha	-			NIL		NIL		6000/-

								Helper								
								ICDS								
54	Berisna M.ngap	4	7	11	10	1	11		-			3		4		7000/-
55	Starning Khongmen	1	NIL	1	1	NIL	1	Cultivator	2			NIL		25		10000/-
56	Soret Khonglam	4	2	6	3	3	6	do	1			NIL		2		9000/-
57	Bram Khongmen	NIL	1	1	NIL	NIL	1	do	2			NIL		NIL		
58	Wersi Khongmen	2	2	4	2	2	4	do	3			NIL		4		5000/-
59	Jord Khongthiem	4	1	5	5	NIL	5	do	3			NIL		NIL		9000/-
60	Retondwell Dkhar	1	3	4	2	2	4	do	-			NIL		8		9000/-
61	Wingstar Majaw	2	1	3	3	NIL	3	do	-			NIL		1		9000/-
62	Rulight Khongmen	2	2	4	3	1	4	do	-			NIL		NIL		9000/-
63	Julisen Khongjang	2	NIL	2	2	NIL	2	do	-			NIL		NIL		5000/-
64	Ephiket K.thiem	4	2	6	6	NIL	6	do	-			NIL		3		9000/-
65	Delhi Khongmen	3	3	6	2	4	6	do	3			NIL		1		7000/-
66	Syntar Khongsit	4	5	9	5	4	9	Cultivator	1			2		5		9000/-
67	Russian Khonglanoh	2	4	6	4	2	6	do	-			2		1		9000/-
68	Kistar Khongwir	4	1	5	2	3	5	do	-			4		2		9000/-
69	Hamus Khongthiem	7	4	11	11	0	11	do	-			3		12		9000/-
70	Trusiphil M.ngap	1	2	3	3	0	3	do	3			2		3		9000/-
71	Diben Khongmen	1	-	1	-	1	1	do	-			-		-		9000/-
72	Dhih Dkhar	4	5	9	6	3	9	do	2			1		7		9000/-
73	Banly Dkhar	6	4	10	9	1	10	do	2			1		4		9000/-
74	Estarwel K.tiang	1	-	1	-	1	1	do	-			-		-		9000/-
75	Kyrshan K.thohrem	6	4	10	8	2	10	do	2			2		-		9000/-
76	Eroless Dkhar	2	2	4	3	1	4	do	-			-		6		9000/-
77	Aiklosi Sutnga	2	2	4	1	3	4	do	-			-		-		8000/-
78	Woodland K.thiem	3	4	7	6	1	7	do	-			1		1		9000/-
79	Ebning Khongtiang	6	3	9	7	2	9	do	-			2		5		9000/-
80	Onliroy M.ngap	1	-	1	1	-	1	do	-			-		-		9000/-
81	Mathiew K.thiem	3	3	6	4	2	6	do	-			2		2		9000/-
82	Alexander Mawroh	3	2	5	3	2	5	do	2			1		-		9000/-

### SOCIO ECONOMIC DATA OF THIEPSKAI VILLAGE UNDER WAHTYLLONG WATERSHED IWMP.

SL NO	NAME OF THE HEAD OF FAMILY	POPULATION			LITERACY			OCCUPATION	AGRICULTURE AREA		LIVESTOCK					ANNUAL INCOME
		MALE	FEMALE	TOTAL	LITERATE	ILLITERATE	TOTAL		SETTLED	JHUM	COW	PIG	GOAT	POULTRY	HORSE	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	Phno Khongyang	3	0	2	2	0	2					3		-		3000
2	Sila Khongyang	0	4	5	5	0	5					-		-		20000
3	Bilum Khongyang	0	4	4	4	0	4					-		4		30000
4	Birian Khongyang	0	4	2	1	1	2					-		-		1800
5	Lano Khongyang	0	4	4	4	0	4					2		-		2800
6	Telinda Khongyang	0	4	6	4	2	6					-		-		1500
7	Run Khongyang	3	0	6	5	1	6					3		-		2000
8	Bansalvan Khongyang	0	4	4	4	0	4					2		-		17000
9	Phlassingh Khongyang	0	4	2	2	0	2					-		3		25000
10	Siarmon Khongyang	0	4	5	5	0	5					-		-		21000
11	Martin Rangjem	3	0	3	3	0	3					-		-		19000
12	Maidalin Khonglabiah	3	0	6	5	1	6					-		5		21000
13	Daiaphestone Kharwanlang	3	0	6	5	1	6					-		4		19000
14	Bising Khongtiang	3	0	1	1	0	1					-		-		14000
15	Basuklang Khongyang	0	4	4	3	1	4					-		-		15000
16	Baiahunlang Khongyang	0	4	5	4	1	5					-		4		16000
17	Thermon Khongyang	0	4	7	6	1	7					-		-		15000
18	Phesha Khongyang	0	4	7	6	1	7					-		-		40000
19	Diona Khongyang	0	4	2	2	0	2					-		3		18000
20	Pynksan Khongyang	3	0	2	2	0	2					-		-		17000

**ANNEXURE III**  
**COST ESTIMATES**

**COST NORMS FOR LOOSE BOULDER BUNDS (IWMP)**  
**(Rate as per PWD, SOR for R&B 2008 – 2009)**

A. SPECIFICATIONS & COSTS OF LOOSE BOULDER BUNDS

Top Width = 0.4 m

Bottom Width = 1.0 m

Height = 0.9 m

Length = 10 m

1/3.11 Providing dry stone masonry walls etc....

$$10\text{m} \times \frac{0.4+1.0}{2} \text{m} \times 0.90 = 6.30\text{m}^3 @ \text{'1191/m}^3 = 7,500.00$$

Total = `7,500.00

(Rupees Seven Thousand Five Hundred) only.

### ESTIMATE FOR CONSTRUCTION OF LOOSE BOULDER BOX TERRACING

(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
			"m"	"m"	"m"			`	`
1/6(e)	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.	3	0.5	0.5	0.2	0.15	cu.m		
		TOTAL				0.15	cu.m	152	22.8
2/19(a)	Providing regular dry stone masonry wall 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 including carriage of stones within 200m and filling of trenches complete as directed. (a) with new stones	3	0.5	0.5	0.2	0.15	cu.m		
		3	0.5	0.4	0.5	0.3	cu.m		
		TOTAL				0.45	cu.m	794	357.3

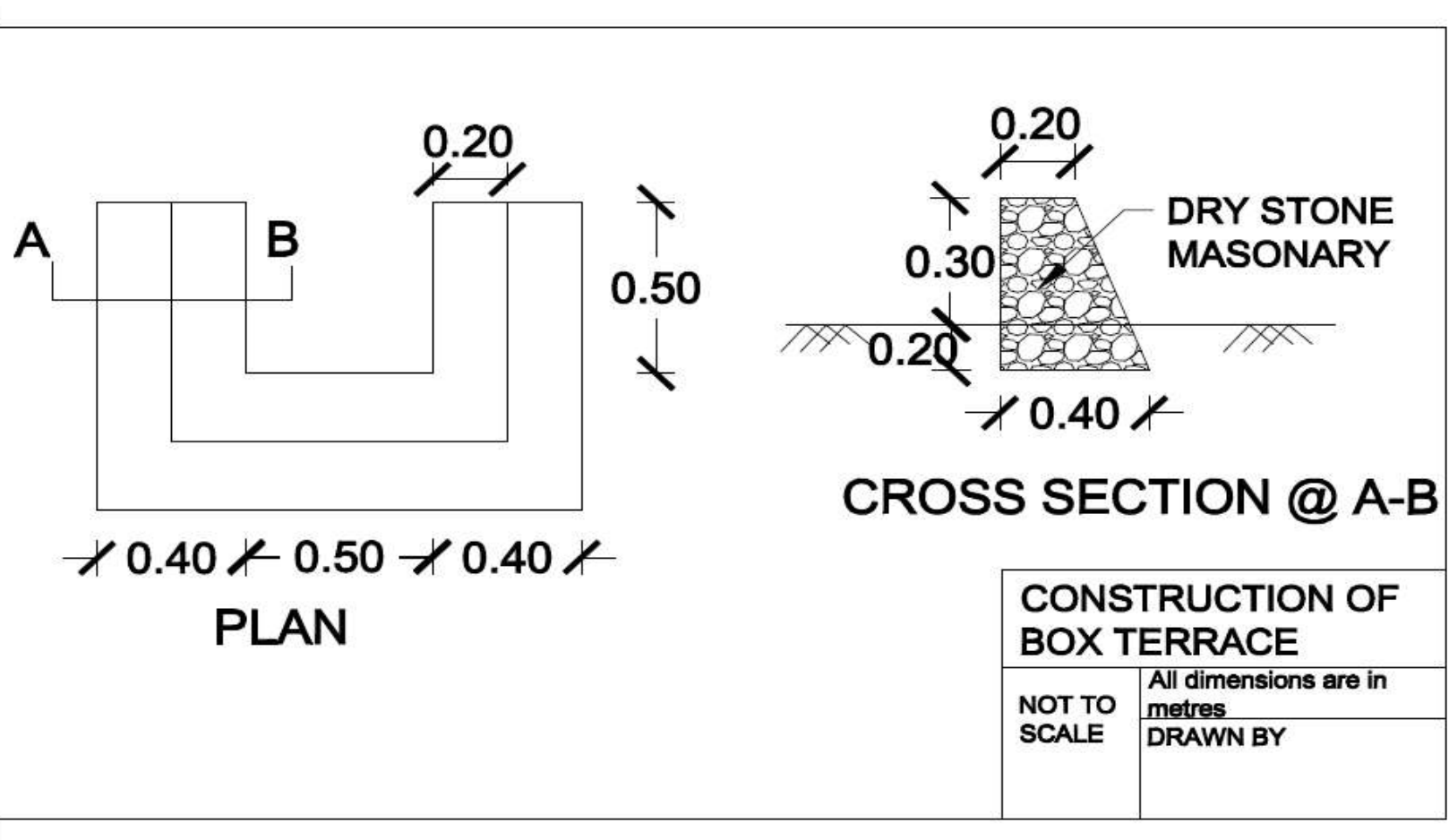
380.1

**Say ₹ 380**

**( Rupees three hundred eighty only)**

Per hectare, numbers of box terrace required is 53 Nos.

Total cost of box terrace (53 nos) for one hectare ₹ 20,000/- (Rupees twenty thousand only)





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

Spacing - 8m x 6.3m

Plant Density - 200 Nos.

A. Preliminary works

I. Site clearance

3 mandays @ ₹100/- per manday - ₹ 300.00

II. Pit digging (pit size 0.45m x 0.45m x 0.45m)

200 Nos. @ ₹5/- each - ₹1000.00

Total - ₹1300.00

B. First year Planting

I. Cost of planting materials

200 Nos. @ ₹ 10/- each - ₹2000.00

II. Cost of planting 200 Nos. @ ₹ 3/- each

- ₹600.00

III. Weeding two times

20 mandays @ ₹100/- per manday - ₹2000.00

Total - ₹4600.00

C. Second year Planting

I. Refilling vacancy (10%)

- ₹ 360.00

II. Weeding two times

20 mandays @ ₹100/- per manday - ₹2000.00

III. Plant protection measures including cost of chemical

- ₹ 340.00

Total - ₹2700.00

Grand Total A+B+C = ₹1300.00 + ₹4600.00 + ₹2700.00 = ₹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.

**B. Preliminary works**

J. Jungle clearance etc. 5 mandays @ ₹100/- per manday	-	₹ 500.00
II. Pit digging (pit size 0.30m x 0.30m x 0.30m) 300 Nos. @ ₹4/- each	-	₹ 1200.00
Total	-	₹ 1700.00

**B. First year Planting**

I. Cost of planting materials 300 Nos. @ ₹ 8/- each	-	₹ 2400.00
II. Cost of planting 300 Nos. @ ₹ 2/- each @ ₹ 100/- per mandays-		₹600.00
III Weeding two times 20 mandays	-	₹ 2000.00
IV. Fire protection measures 5 mandays @ ` 100/- per manday -		₹ 500.00
Total	-	₹ 5500.00

**C. Second year Planting**

I. Vacancy refilling (10%)	-	₹ 400.00
II. Weeding two times 20 mandays @ ` 100/- per manday -		₹ 2000.00
III. Fire protection measures 5 mandays @ ₹100/- per manday	-	₹500.00
Total	-	₹ 2900.00

Grand Total A+B+C = ₹1700.00 + ₹5500.00 + ₹2900.00 = ₹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)**

C. Preliminary works

I. Site clearance 3 mandays @ ₹ 100/- per manday - ₹ 300.00

II. Pit digging (pit size 0.30m x 0.30m x 0.30m) 100 Nos. @ ₹4/- each - ₹ 400.00

Total - ₹ 700.00

B. First year Planting

I. Cost of planting materials 100 Nos. @ ₹ 8/- each - ₹ 800.00

II. Cost of planting 100 Nos. @ ₹2/- each - ₹ 200.00

III Round Weeding around the plant four times 5 mandays @ ₹ 100/- per manday - ₹500.00

IV. Fire protection measures 4 mandays @ ₹ 100/- per manday - ₹ 400.00

Total - ₹1900.00

C. Second year Planting

I. Refilling vacancy (10%) - ₹ 100.00

III. Round Weeding around the plant four times 5 mandays @ ₹ 100/- per manday - ₹ 500.00

III. Fire protection measures 4 mandays @ ₹100/- per manday - ₹ 400.00

Total - ₹1000.00

Grand Total A+B+C = ₹700.00 + ₹1900.00 + ₹1000.00 = ₹3600.00

(Rupees Three thousand six hundred) only.

**ESTIMATE FOR CONSTRUCTION OF WATER HARVESTING STRUCTURE  
AT RIWAI OF WAH THYLLONG WATERSHED.**

(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 ₹
			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	7	1.1	0.65	5.005	CU.M		
		<b>TOTAL</b>				<b>5.005</b>	<b>CU.M</b>	<b>152</b>	<b>760.76</b>
2/6	Earthwork in excavation for foundation of hume pipe, culvert, slab drain, retaining wall face well up to the desired 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  APPRON WINGWALLS (U/S) WINGWALLS (D/S)								
		1	7	1.5	0.2	2.1	CU.M		
		2	3.9	1	0.7	5.46	CU.M		
		2	3	1	0.7	4.2	CU.M		
		<b>TOTAL</b>				<b>11.76</b>	<b>CU.M</b>	<b>93</b>	<b>1093.68</b>
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 (U/S) WINGWALLS (D/S)								
		1	7	1.1	0.1	0.77	CU.M		
		2	3.90	1	0.1	0.78	CU.M		
		2	3	1	0.1	0.6	CU.M		
		<b>TOTAL</b>				<b>2.15</b>	<b>CU.M</b>	<b>2136</b>	<b>4592.40</b>

4/20(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							
		2	3.9	1	0.6	4.68	CU.M	
		2	3.9	1	1.5	11.7	CU.M	
		2	3	1	0.6	3.6	CU.M	
		2	3	1	1.5	9	CU.M	
		<b>TOTAL</b>				<b>28.98</b>	<b>CU.M</b>	<b>1060</b>
								<b>30718.80</b>
5/41(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  APPRON							
		1	7	1.2		8.4	SQ.M	
		2	1.6	0.3		0.96	SQ.M	
		1	10	0.1		1	SQ.M	
		<b>TOTAL</b>				<b>10.36</b>	<b>SQ.M</b>	<b>295</b>
								<b>3056.20</b>
6/24	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 APPRON							
		1	7	1.5	0.3	3.15	CU.M	
		<b>TOTAL</b>				<b>3.15</b>	<b>CU.M</b>	<b>512</b>
								<b>1612.80</b>
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 DAM							
		1	7	1.1	0.65	5.005	CU.M	
		1	7	0.8	1.5	8.4	CU.M	
		<b>TOTAL</b>				<b>13.405</b>	<b>CU.M</b>	<b>2880</b>
								<b>38606.40</b>
8/28	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 APPRON							
		1	7	1.5	0.1	1.05	CU.M	
		<b>TOTAL</b>				<b>1.05</b>	<b>CU.M</b>	<b>2344</b>
								<b>2461.20</b>

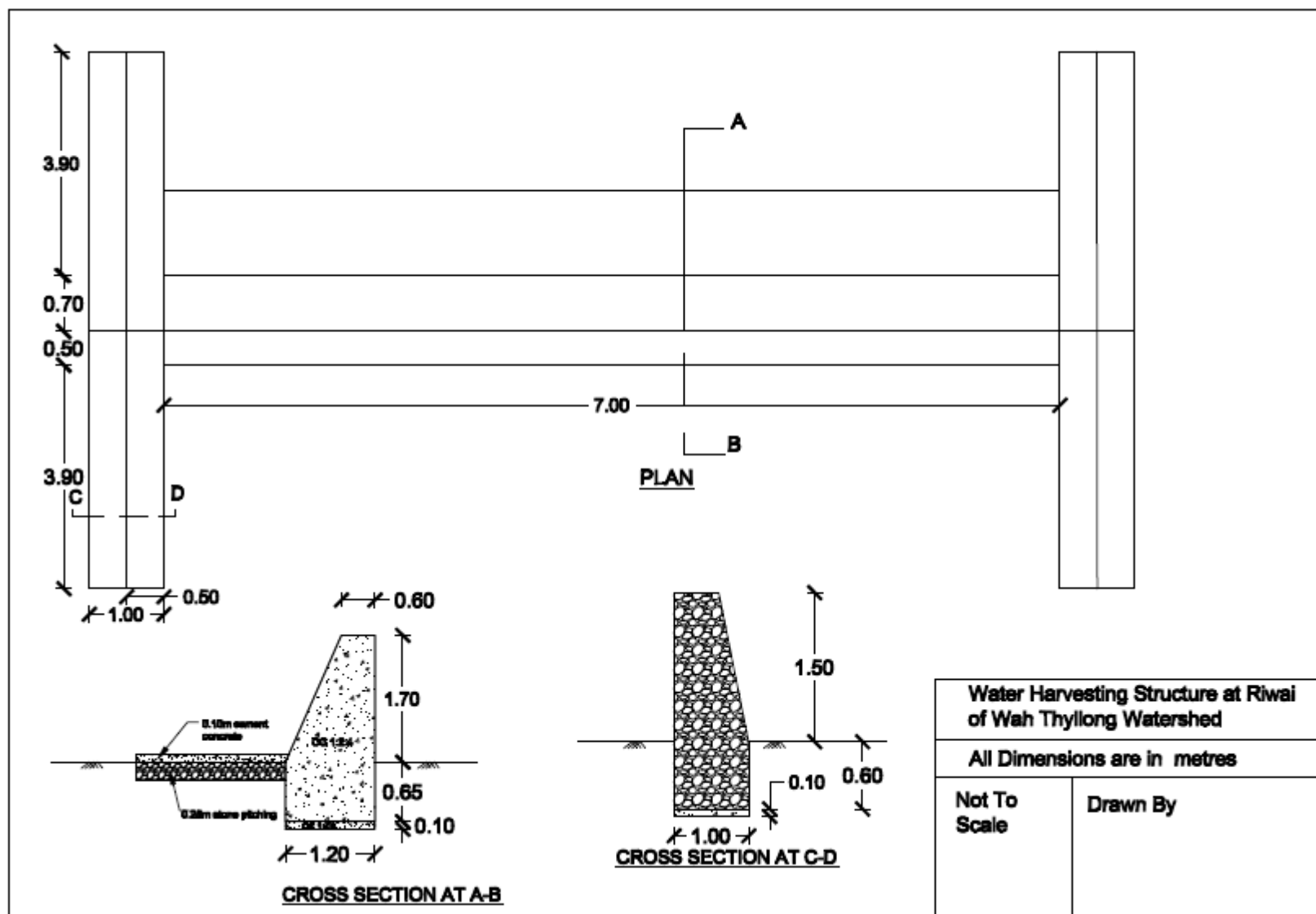
9/27	Providing 12mm thick cement plastering including cleaing the surface, curing carriage of sand within 200m complete  DAM   Washing Place	1	7	1.2		8.4	SQ.M		
		2	2	0.3		1.2	SQ.M		
		1	7	0.5		3.5	SQ.M		
		1	7	1.5		10.5	SQ.M		
		1	10	0.1		1	SQ.M		
		<b>TOTAL</b>				<b>24.60</b>	<b>SQ.M</b>	<b>92</b>	<b>2263.20</b>

**GRAND TOTAL**

**85165.44**

**SAY ₹ 85100/-**

**( RUPEES EIGHTY FIVE THOUSAND ONE HUNDRED ONLY)**



**ESTIMATE FOR CONSTRUCTION OF WATER HARVESTING STRUCTURE  
AT SLEIT KHYRWIANG FOR WAH THYLLONG WATERSHED**

(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 ₹
			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	20	1.3	0.9	23.4	CU.M		
	APRON	1	5	2	0.25	2.5	CU.M		
	S/WALLS	2	3	0.3	0.5	0.9	CU.M		
	T/WALL	1	5	0.3	0.5	0.75	CU.M		
	<b>TOTAL</b>					<b>27.55</b>	<b>CU.M</b>	<b>152</b>	<b>4187.60</b>
2/6	Earthwork in excavation for foundation of hume pipe, culvert, slab drain, retaining wall face well up to the desired 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								
	W/Walls(u/s)	2	20	0.9	0.8	28.8	CU.M		
	W/Walls(d/s)	2	12.5	0.9	0.8	18	CU.M		
	<b>TOTAL</b>					<b>46.8</b>	<b>CU.M</b>	<b>93</b>	<b>4352.40</b>
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	1	20	1.3	0.15	3.9	CU.M		
	W/Walls(u/s)	2	20	0.9	0.1	3.6	CU.M		
	W/Walls(d/s)	2	12.5	0.9	0.1	2.25	CU.M		
	S/WALLS	2	3	0.3	0.1	0.18	CU.M		
	T/WALL	1	5	0.3	0.1	0.15	CU.M		
	<b>TOTAL</b>					<b>10.08</b>	<b>CU.M</b>	<b>2136</b>	<b>21530.88</b>

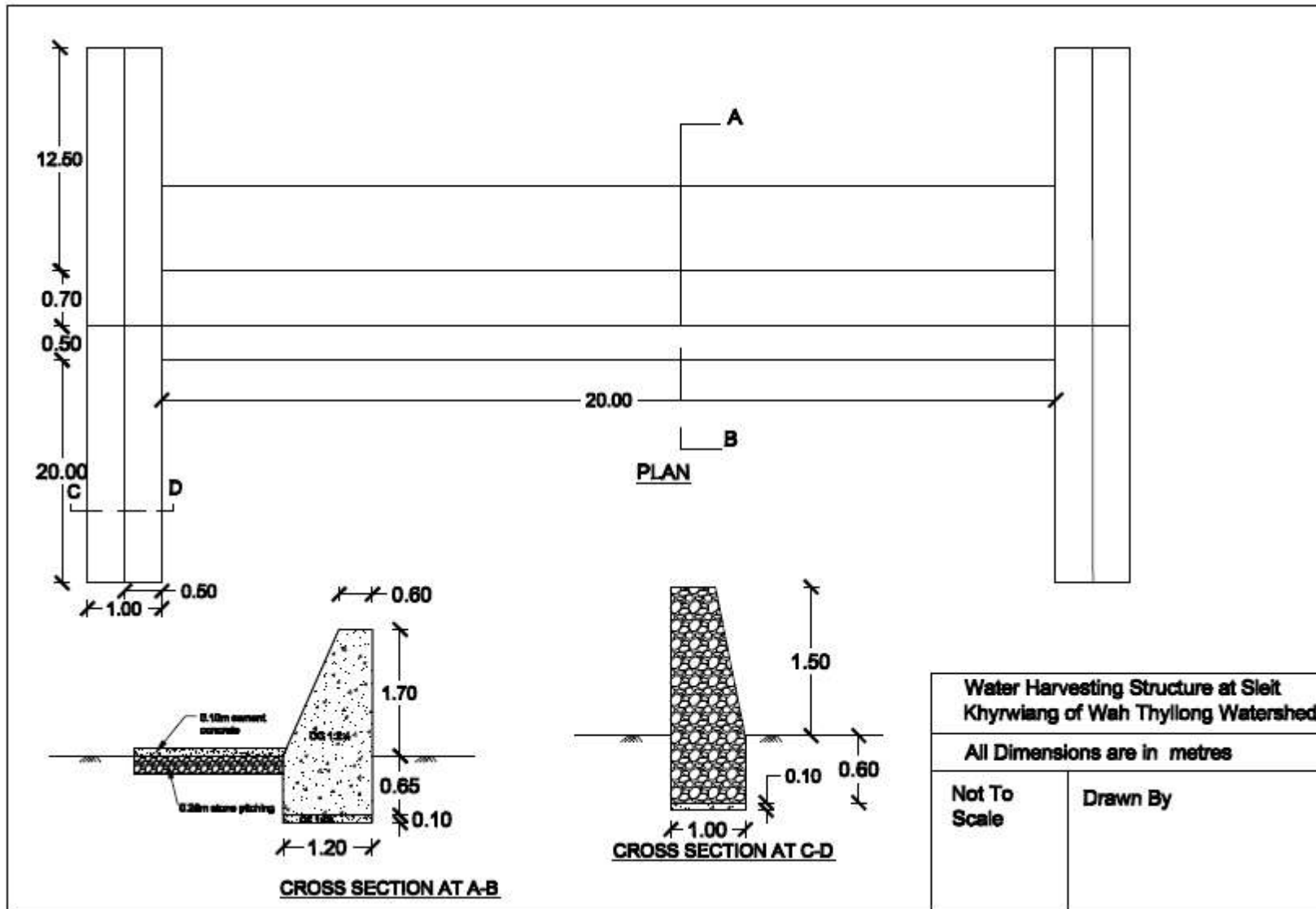


4/42	Supplying, fitting, fixing including bending, cranking and placing in position as per approved design and drawings DAM   LESS FOR SPILLWAY  F/SLAB	nos	length	Kg/m					
		150	3.2	0.89		4.272	QTL		
		75	3.34	0.89		2.2295	QTL		
		42	15	0.62		3.906	QTL		
		22	15	0.62		2.046	QTL		
		-75	0.3	0.89		-0.2	QTL		
		-6	0.3	0.62		-0.011	QTL		
		5	5.6	0.89		0.2492	QTL		
		35	0.6	0.62		0.1302	QTL		
		TOTAL					12.621	QTL	5174
5/41(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 S/WALLS  T/WALL  F/SLAB								
		1	20	2		40	SQ.M		
		1	20	2.44		48.8	SQ.M		
		-2	5	0.3		-3	SQ.M		
		1	9	0.1		0.9	SQ.M		
		4	2.14	0.35		2.996	SQ.M		
		4	3	0.5		6	SQ.M		
		2	5	0.3		3	SQ.M		
		2	0.3	0.3		0.18	SQ.M		
		1	5.2	0.6		3.12	SQ.M		
TOTAL					102	SQ.M	295	30088.82	
6/29	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  DAM    F/SLAB								
		1	20	1.3	0.1	2.6	CU.M		
		1	20	1.3	0.8	20.80	CU.M		
		1	15	0.95	1.8	25.65	CU.M		
		2	5	0.6	0.3	1.80	CU.M		
		1	5	0.6	0.1	0.30	CU.M		
TOTAL					51.15	CU.M	2880	147312.00	

7/20(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  W/WALLS(u/s)  W/WALLS(d/s)  TOE WALL	2	20	0.9	0.7	25.2	CU.M		
		2	20	0.7	2	56	CU.M		
		2	12.5	0.9	0.7	15.75	CU.M		
		2	12.5	0.7	2	35	CU.M		
		1	5	0.3	0.45	0.675	CU.M		
		TOTAL				132.6	CU.M	1060	140582.50
8/24	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	20	2	0.25	10	CU.M		
		TOTAL				10	CU.M	512	5120.00
9/28	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  APRON	1	20	2	0.1	4	CU.M		
		TOTAL				4.00	CU.M	2344	9376.00
10/27	Providing 12mm thick cement plastering including cleaing the surface, curing carriage of sand within 200m complete  DAM   F/SLAB APRON  S/WALLS      T/WALLS  W/WALLS	1	20	2		40	SQ.M		
		1	20	2.44		48.8	SQ.M		
		1	20.6	0.6		12.36	SQ.M		
		2	5.2	0.6		6.24	SQ.M		
		1	5	2		10	SQ.M		
		1	9	0.1		0.9	SQ.M		
		4	2.14	0.35		2.996	SQ.M		
		2	2.14	0.35		1.498	SQ.M		
		2	0.3	0.3		0.18	SQ.M		
		4	3	0.5		6	SQ.M		
		2	3	0.5		3	SQ.M		
		2	5	0.3		3	SQ.M		
		1	5	0.3		1.5	SQ.M		
		2	20	2.04		81.6	SQ.M		
		2	15	0.5		15	SQ.M		
		TOTAL				233.07	SQ.M	92	21442.81

**RUPEES FOUR LAKHS FIFTY THOUSAND ONLY.**

**SAY ₹ 4,50,000**



**ESTIMATE FOR CONSTRUCTION OF RCC DAM  
AT JINGKIENG JRI, NONGSOHPHAN OF WAH THYLLONG WATERSHED**

(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  DAM								
		1	25	1.35	0.9	30.375	CU.M		
		<b>TOTAL</b>				<b>30.375</b>	<b>CU.M</b>	<b>152</b>	<b>4617.00</b>
2/6	Earthwork in excavation for foundation of hume pipe, culvert, slab drain, retaining wall face well up to the desired 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  WALL (U/S) WALL (D/S) TOE WALL								
		2	5	0.9	0.85	7.65	CU.M		
		2	5	0.9	0.85	7.65	CU.M		
		1	7	0.3	0.2	0.42	CU.M		
		<b>TOTAL</b>				<b>15.72</b>	<b>CU.M</b>	<b>93</b>	<b>1461.96</b>
3/43	Drilling holes 20mm to 25mm dia into the rocks for dowel bars not less than 75cm deep and keeping them protruding above the rock for the length not less than 45 times the dia of the dowel bars and properly embedded into the concrete complete as directed.								
					75	75	Nos		
		<b>TOTAL</b>				<b>75</b>	<b>Nos</b>	<b>181</b>	<b>13575.00</b>
4/26	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  DAM WALL (U/S) WALL (D/S)								
		1	25	1.35	0.15	5.0625	CU.M		
		2	5	0.9	0.1	0.9	CU.M		
		2	5	0.9	0.1	0.9	CU.M		
		<b>TOTAL</b>				<b>6.8625</b>	<b>CU.M</b>	<b>2136</b>	<b>14658.30</b>

5/42	Supplying, fitting, fixing including bending, cranking and placing in position as per approved design and drawings  DAM	<b>nos</b>	<b>length</b>	<b>Kg/m</b>				
		10	25.16	0.89		2.2392	QTL	
		370	1.62	0.62		3.7163	QTL	
		370	3.61	0.89		11.888	QTL	
		23	25.16	0.62		3.5878	QTL	
		37	1.66	0.89		0.5466	QTL	
		370	1.16	0.89		3.8199	QTL	
		20	25.16	0.62		3.1198	QTL	
		24	3.45	0.89		0.7369	QTL	
		200	0.5	0.62		0.62	QTL	
		4	25.16	0.89		0.8957	QTL	
		460	0.5	0.2		0.46	QTL	
		75	1.2	1.58		1.422	QTL	
		<b>TOTAL</b>				<b>33.052</b>	<b>QTL</b>	<b>5174</b>
								<b>171011.25</b>
6/41(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  DAM							
		1	25	3		75	SQ.M	
		1	25	2.53		63.25	SQ.M	
		4	25	0.45		45	SQ.M	
		2	0.5	0.45		0.45	SQ.M	
		4	10.5	0.3		12.6	SQ.M	
		2	0.5	0.3		0.3	SQ.M	
		2	10	0.15		3	SQ.M	
		8	0.8	3.45		22.08	SQ.M	
		1	25	0.8		20	SQ.M	
		4	0.3	0.5		0.6	SQ.M	
		4	0.3	1.67		2.004	SQ.M	
		2	3	0.5		3	SQ.M	
		<b>TOTAL</b>				<b>247.28</b>	<b>SQ.M</b>	<b>295</b>
								<b>72948.78</b>
	Side wall							

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							
	DAM	1	25	1.35	0.75	25.313	CU.M	
		1	25	0.9	1	22.50	CU.M	
		2	9	0.45	0.5	4.05	CU.M	
		8	3.45	0.2	0.2	1.10	CU.M	
		1	25	0.2	0.2	1.00	CU.M	
	Side Walls	2	0.5	0.3	0.3	0.09	CU.M	
		2	0.3	0.3	1.67	0.30	CU.M	
		1	0.3	0.3	0.5	0.05	CU.M	
	TOTAL					54.40	CU.M	2880
8/20(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							
	WALL U/S	2	5	0.9	0.75	6.75	CU.M	
		2	5	0.7	1.5	10.5	CU.M	
	WALL D/S	2	5	0.9	0.75	6.75	CU.M	
		2	5	0.7	1.5	10.5	CU.M	
	TOE WALL	1	7	0.3	0.45	0.945	CU.M	
	TOTAL					35.445	CU.M	1060
9/24	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	7	3	0.25	5.25	CU.M	
TOTAL					5.25	CU.M	512	2688.00
10/28	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							
	APRON	1	7	3	0.1	2.1	CU.M	
TOTAL					2.10	CU.M	2344	4922.40

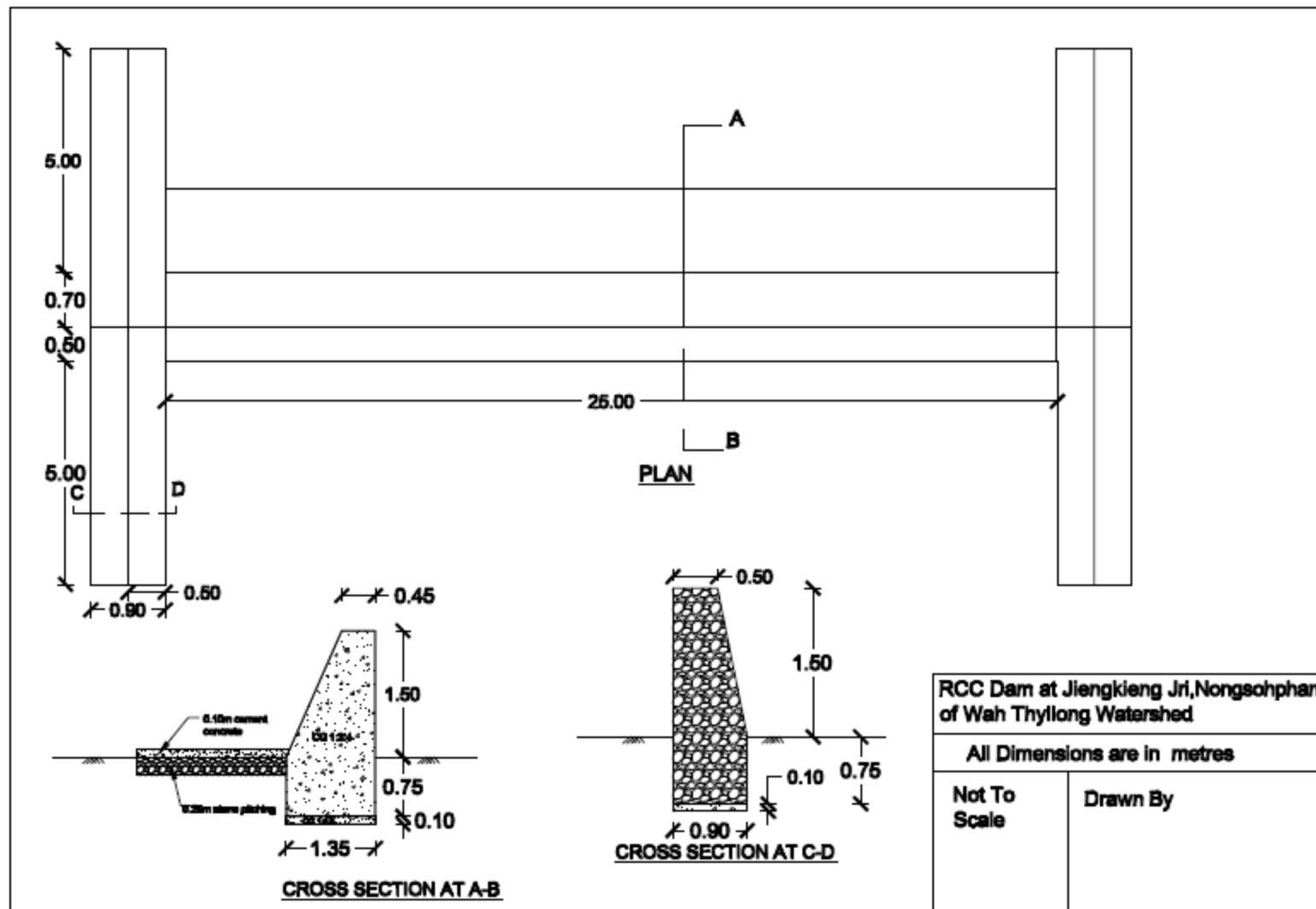
11/27	Providing 12mm thick cement plastering including cleaing the surface, curing carriage of sand within 200m complete							
	DAM	1	25	1.5		37.5	SQ.M	
		1	25	1.8		45	SQ.M	
		1	25	0.5		12.5	SQ.M	
		1	25	3		75	SQ.M	
		4	9	0.5		18	SQ.M	
		2	0.5	0.45		0.45	SQ.M	
		2	3	0.2		1.2	SQ.M	
		1	25	0.5		12.5	SQ.M	
	WALL U/S	2	5	2.64		26.4	SQ.M	
	WALL D/S	2	5	2.25		22.5	SQ.M	
	Side wall	4	0.3	0.5		0.6	SQ.M	
		4	0.3	1.67		2.004	SQ.M	
		2	3	0.5		3	SQ.M	
	APRON	1	7	3		21	SQ.M	
		<b>TOTAL</b>				<b>277.65</b>	<b>SQ.M</b>	<b>92</b>
								<b>25544.17</b>

**GRAND TOTAL**

**505676.61**

**SAY Rs 5,05,600**

**RUPEES FIVE LAKHS FIVE THOUSAND SIX HUNDRED ONLY.**





**ESTIMATE FOR CONSTRUCTION OF RCC DAM  
AT JINGKIENG JRI, NOHWET OF WAH THYLLONG WATERSHED**

(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  DAM								
		1	25	1.35	0.9	30.375	CU.M		
		<b>TOTAL</b>				<b>30.375</b>	<b>CU.M</b>	<b>152</b>	<b>4617.00</b>
2/6	Earthwork in excavation for foundation of hume pipe, culvert, slab drain, retaining wall face well up to the desired 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  WALL (U/S) WALL (D/S) TOE WALL								
		2	5	0.9	0.85	7.65	CU.M		
		2	5	0.9	0.85	7.65	CU.M		
		1	7	0.3	0.2	0.42	CU.M		
		<b>TOTAL</b>				<b>15.72</b>	<b>CU.M</b>	<b>93</b>	<b>1461.96</b>
3/43	Drilling holes 20mm to 25mm dia into the rocks for dowel bars not less than 75cm deep and keeping them protruding above the rock for the length not less than 45 times the dia of the dowel bars and properly embedded into the concrete complete as directed.								
					75	75	Nos		
		<b>TOTAL</b>				<b>75</b>	<b>Nos</b>	<b>181</b>	<b>13575.00</b>
4/26	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  DAM WALL (U/S) WALL (D/S)								
		1	25	1.35	0.15	5.0625	CU.M		
		2	5	0.9	0.1	0.9	CU.M		
		2	5	0.9	0.1	0.9	CU.M		
		<b>TOTAL</b>				<b>6.8625</b>	<b>CU.M</b>	<b>2136</b>	<b>14658.30</b>

5/42	Supplying, fitting, fixing including bending, cranking and placing in position as per approved design and drawings  DAM	<b>nos</b>	<b>length</b>	<b>Kg/m</b>				
		10	25.16	0.89		2.2392	QTL	
		370	1.62	0.62		3.7163	QTL	
		370	3.61	0.89		11.888	QTL	
		23	25.16	0.62		3.5878	QTL	
		37	1.66	0.89		0.5466	QTL	
		370	1.16	0.89		3.8199	QTL	
		20	25.16	0.62		3.1198	QTL	
		24	3.45	0.89		0.7369	QTL	
		200	0.5	0.62		0.62	QTL	
		4	25.16	0.89		0.8957	QTL	
		460	0.5	0.2		0.46	QTL	
		75	1.2	1.58		1.422	QTL	
		<b>TOTAL</b>				<b>33.052</b>	<b>QTL</b>	<b>5174</b>
								<b>171011.25</b>
6/41(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  DAM							
		1	25	3		75	SQ.M	
		1	25	2.53		63.25	SQ.M	
		4	25	0.45		45	SQ.M	
		2	0.5	0.45		0.45	SQ.M	
		4	10.5	0.3		12.6	SQ.M	
		2	0.5	0.3		0.3	SQ.M	
		2	10	0.15		3	SQ.M	
		8	0.8	3.45		22.08	SQ.M	
		1	25	0.8		20	SQ.M	
		4	0.3	0.5		0.6	SQ.M	
		4	0.3	1.67		2.004	SQ.M	
		2	3	0.5		3	SQ.M	
		<b>TOTAL</b>				<b>247.28</b>	<b>SQ.M</b>	<b>295</b>
								<b>72948.78</b>
	Side wall							

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							
	DAM	1	25	1.35	0.75	25.313	CU.M	
		1	25	0.9	1	22.50	CU.M	
		2	9	0.45	0.5	4.05	CU.M	
		8	3.45	0.2	0.2	1.10	CU.M	
		1	25	0.2	0.2	1.00	CU.M	
	Side Walls	2	0.5	0.3	0.3	0.09	CU.M	
		2	0.3	0.3	1.67	0.30	CU.M	
		1	0.3	0.3	0.5	0.05	CU.M	
	TOTAL					54.40	CU.M	2880
8/20(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							
	WALL U/S	2	5	0.9	0.75	6.75	CU.M	
		2	5	0.7	1.5	10.5	CU.M	
	WALL D/S	2	5	0.9	0.75	6.75	CU.M	
		2	5	0.7	1.5	10.5	CU.M	
	TOE WALL	1	7	0.3	0.45	0.945	CU.M	
	TOTAL					35.445	CU.M	1060
9/24	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	7	3	0.25	5.25	CU.M	
TOTAL					5.25	CU.M	512	2688.00
10/28	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							
	APRON	1	7	3	0.1	2.1	CU.M	
TOTAL					2.10	CU.M	2344	4922.40

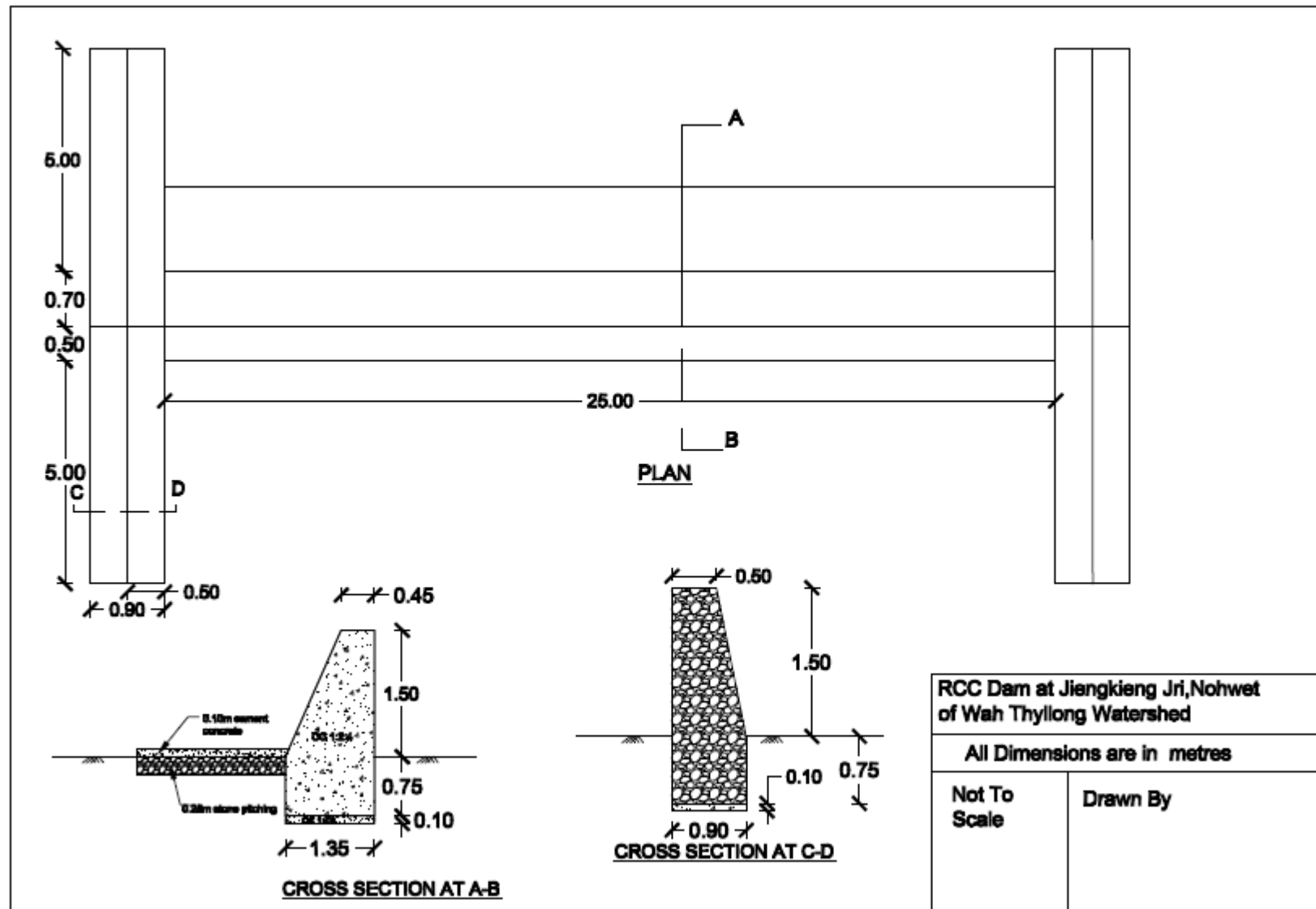
11/27	Providing 12mm thick cement plastering including cleaing the surface, curing carriage of sand within 200m complete							
	DAM	1	25	1.5		37.5	SQ.M	
		1	25	1.8		45	SQ.M	
		1	25	0.5		12.5	SQ.M	
		1	25	3		75	SQ.M	
		4	9	0.5		18	SQ.M	
		2	0.5	0.45		0.45	SQ.M	
		2	3	0.2		1.2	SQ.M	
		1	25	0.5		12.5	SQ.M	
	WALL U/S	2	5	2.64		26.4	SQ.M	
	WALL D/S	2	5	2.25		22.5	SQ.M	
	Side wall	4	0.3	0.5		0.6	SQ.M	
		4	0.3	1.67		2.004	SQ.M	
		2	3	0.5		3	SQ.M	
	APRON	1	7	3		21	SQ.M	
		<b>TOTAL</b>				<b>277.65</b>	<b>SQ.M</b>	<b>92</b>
								<b>25544.17</b>

**GRAND TOTAL**

**505676.61**

**SAY Rs 5,05,600**

**RUPEES FIVE LAKHS FIVE THOUSAND SIX HUNDRED ONLY.**



# ESTIMATE FOR CONSTRUCTION OF RCC DAM AT NONGTHYMMAI OF WAH THYLLONG WATERSHED

**L=11 M, H=1.50 M, WINGWALLS (U/S & D/S) 3M**

(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 DAM	1	11	2	1.2	26.4	CU.M		
		TOTAL				26.4	CU.M	152	4012.80
2/6	Earthwork in excavation for foundation of hume pipe, culvert, slab drain, retaining wall face well up to the desired 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 WALL (U/S) WALL (D/S) APPRON TOE WALL	2	3	1	0.60	3.6	CU.M		
		2	3	1	0.60	3.6	CU.M		
		1	11	2	0.45	9.9	CU.M		
		1	11	0.3	0.45	1.5	CU.M		
		TOTAL				18.59	CU.M	93	1728.41
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 WALL (U/S) WALL (D/S)	1	11	2	0.1	2.2	CU.M		
		2	3	1	0.1	0.6	CU.M		
		2	3	1	0.1	0.6	CU.M		
		TOTAL				3.4	CU.M	2136	7262.40
4/42	Supplying, fitting, fixing including bending, cranking and placing in position as per approved design and drawings DAM     FOOTING	nos	length	Kg/m					
		74	3.1	0.89		2.051	QTL		
		34	11.65	0.39		1.545	QTL		
		74	3.5	0.89		2.315	QTL		
		34	11.65	0.39		1.545	QTL		
		11	11	0.62		0.75	QTL		
		74	1.5	0.62		0.691	QTL		
		TOTAL				8.90	QTL	5174	46035.25

5/41(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  APRON TOE WALL	1	11	1.5		16.5	SQ.M		
		1	11	1.92		21.12	SQ.M		
		1	11	0.1		1.1	SQ.M		
		2	11	0.5		11	SQ.M		
		<b>TOTAL</b>				<b>49.72</b>	<b>SQ.M</b>	<b>295</b>	<b>14667.40</b>
6/29	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  DAM	1	11	1.5	1	16.5	CU.M		
		1	11	0.83	1.5	13.61	CU.M		
		<b>TOTAL</b>				<b>30.11</b>	<b>CU.M</b>	<b>2880</b>	<b>86724.00</b>
7/20(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 WALL U/S  WALL D/S  TOE WALL	2	3	1	0.50	3.0	CU.M		
		2	3	0.7	1.5	6.3	CU.M		
		2	3	1	0.50	3.0	CU.M		
		2	3	0.7	1.5	6.3	CU.M		
		1	11	0.3	0.45	1.49	CU.M		
		<b>TOTAL</b>				<b>20.09</b>	<b>CU.M</b>	<b>1060</b>	<b>21290.10</b>
8/24	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 DAM APRON	1	11	2	0.2	4.4	CU.M		
		1	11	2	0.4	8.8	CU.M		
		<b>TOTAL</b>				<b>13.2</b>	<b>CU.M</b>	<b>512</b>	<b>6758.40</b>
9/28	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 TOEWALL APRON	1	11	0.3	0.5	1.65	CU.M		
		1	11	2	0.15	3.3	CU.M		
		<b>TOTAL</b>				<b>4.95</b>	<b>CU.M</b>	<b>2344</b>	<b>11602.80</b>

10/27	Providing 12mm thick cement plastering including cleaing the surface, curing carriage of sand within 200m complete								
	DAM	1	11	1.5		16.5	SQ.M		
		1	11	1.92		21.12	SQ.M		
		1	11	0.45		4.95	SQ.M		
	APRON	1	11	2		22	SQ.M		
	TOE WALL	2	11	0.5		11	SQ.M		
		1	11	0.3		3.3	SQ.M		
		TOTAL				78.87	SQ.M	92	7256.04

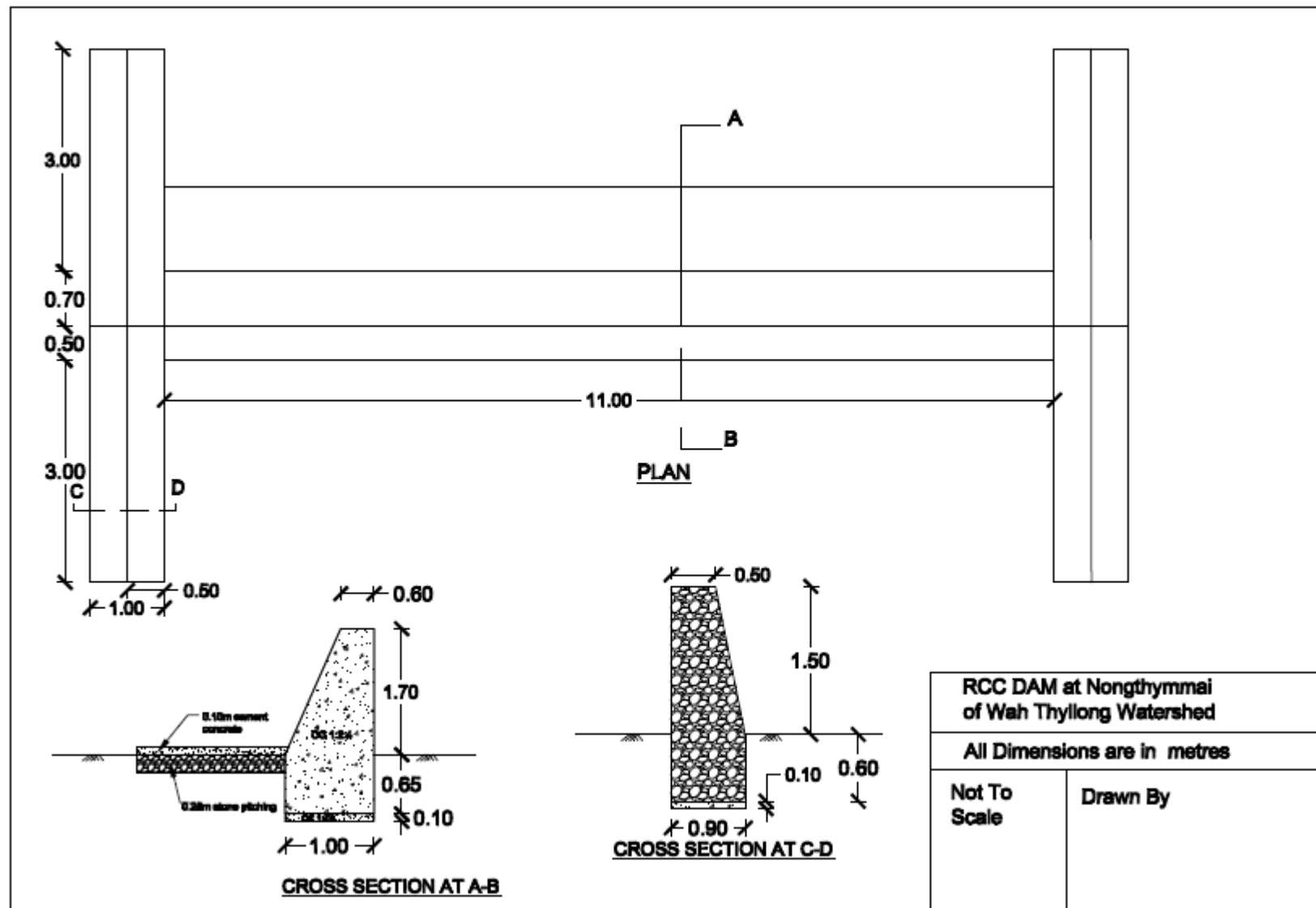
**GRAND TOTAL**

**207337.60**

**SAY Rs 2,07340/-**

**RUPEES TWO LAKHS SEVEN THOUSAND THREE HUNDRED FORTY ONLY**





# ESTIMATE FOR CONSTRUCTION OF PROTECTION WALL OF WAH THYLLONG WATERSHED

## HEIGHT OF P/WALL - 1.8 M

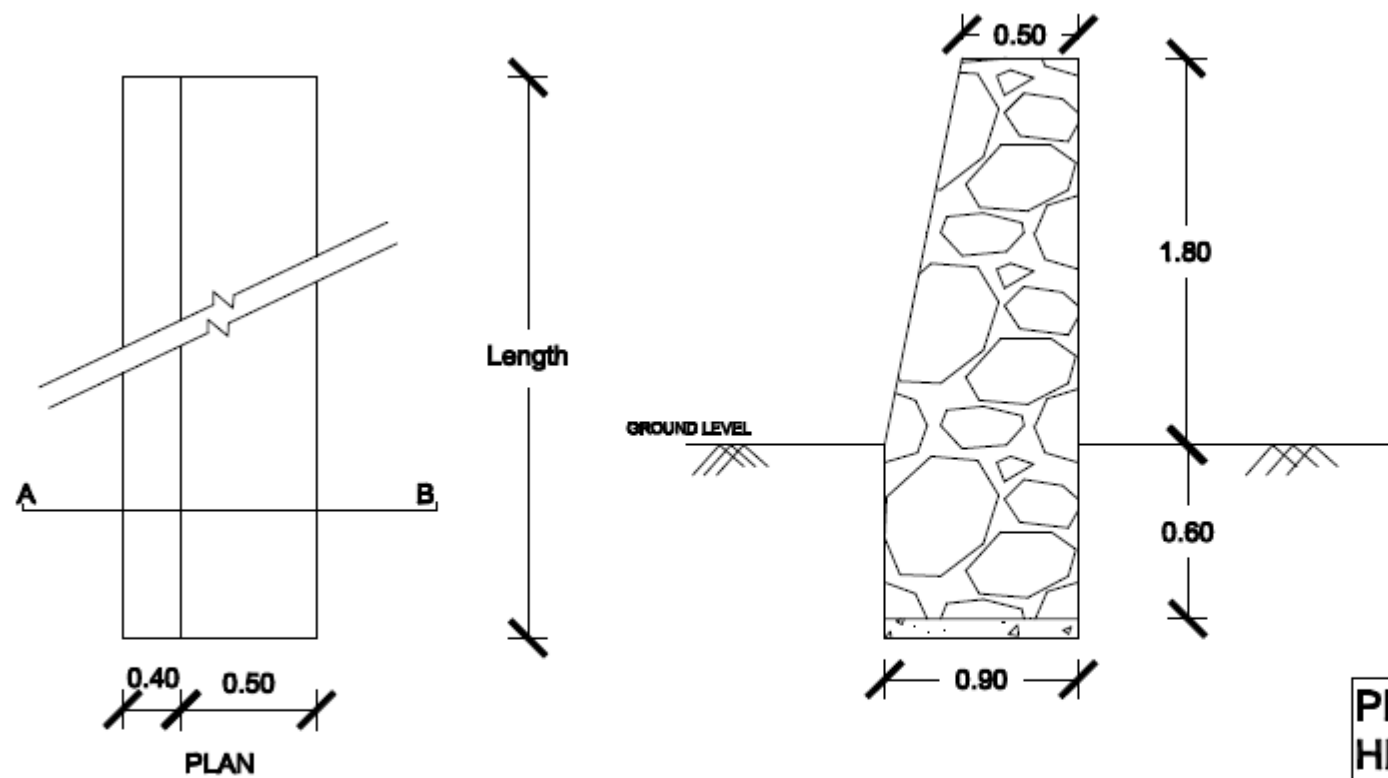
(Rate Based as per MPWD scheduled or rates for Road and Bridges for Eastern circle, Shillong for the year 2008-09)

Sl no	PARTICULARS	NO	DIMENSION			QTY	UNIT	RATE	AMOUNT
			"m"	"m"	"m"			₹	₹
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.	1	1	0.9	0.7	0.63	cu.m		
		TOTAL				0.63	cu.m	93	58.59
2/26	Providing cement concrete work in proportion 1:4:8 with hard stone aggregates 40mm down graded including necessary carriage of stone and sand within a distance of 200mm and curing complete.	1	1	0.9	0.1	0.09			
		TOTAL				0.09	cu.m	2136	192.24
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	1	0.9	0.6	0.54	cu.m		
		1	1	0.7	1.8	1.26	cu.m		
		TOTAL				1.8		1060	1908
		GRAND TOTAL							2158.83

Say ₹ 2160/-

For 212m, the amount is ₹4,57,920/-

(Rupees four lakhs fifty seven thousand nine hundred twenty only)



CROSS SECTION AT A-B

**PROTECTION WALL OF  
HEIGHT 1.80 M**

NOT TO  
SCALE

All dimensions are in  
metres  
DRAWN BY

# ESTIMATE FOR CONSTRUCTION OF PROTECTION WALL OF WAH THYLLONG WATERSHED

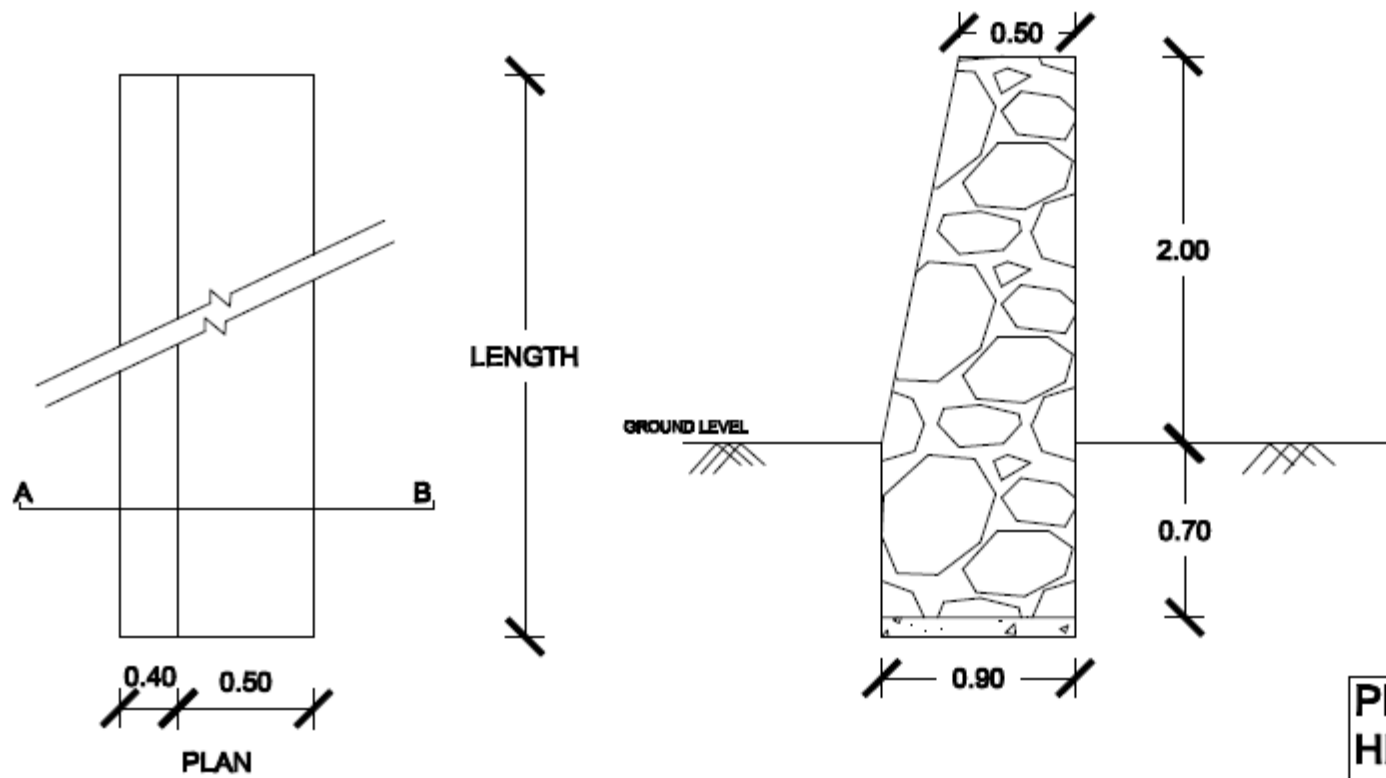
## HEIGHT OF P/WALL - 2.0 M

(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
			"m"	"m"	"m"			₹	₹
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.	1	1	0.9	0.7	0.63	cu.m		
		TOTAL				0.63	cu.m	93	58.59
2/26	Providing cement concrete work in proportion 1:4:8 with hard stone aggregates 40mm down graded including necessary carriage of stone and sand within a distance of 200mm and curing complete.	1	1	0.9	0.1	0.09			
		TOTAL				0.09	cu.m	2136	192.24
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	1	0.9	0.6	0.54	cu.m		
		1	1	0.7	2	1.4	cu.m		
		TOTAL				1.94		1060	2056.4
		GRAND TOTAL							2307.23

Say ₹ 2310/-

For 200m, the amount is ₹ 462000  
(Rupees four lakhs sixty two thousand only)



# **PROTECTION WALL OF HEIGHT 2.0 M**

**NOT TO  
SCALE**

All dimensions are in  
metres  
**DRAWN BY**

## ESTIMATE FOR CONSTRUCTION OF PROTECTION WALL OF WAH THYLLONG WATERSHED

### HEIGHT OF P/WALL - 2.5 M

(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
			"m"	"m"	"m"			₹	₹
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.	1	1	1	1	1	cu.m		
		TOTAL				1	cu.m	93	93
2/26	Providing cement concrete work in proportion 1:4:8 with hard stone aggregates 40mm down graded including necessary carriage of stone and sand within a distance of 200mm and curing complete.	1	1	1	0.1	0.1			
		TOTAL				0.1	cu.m	2136	213.6
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	1	1	0.9	0.9	cu.m		
		1	1	0.8	2.5	2	cu.m		
		TOTAL				2.9		1060	3074

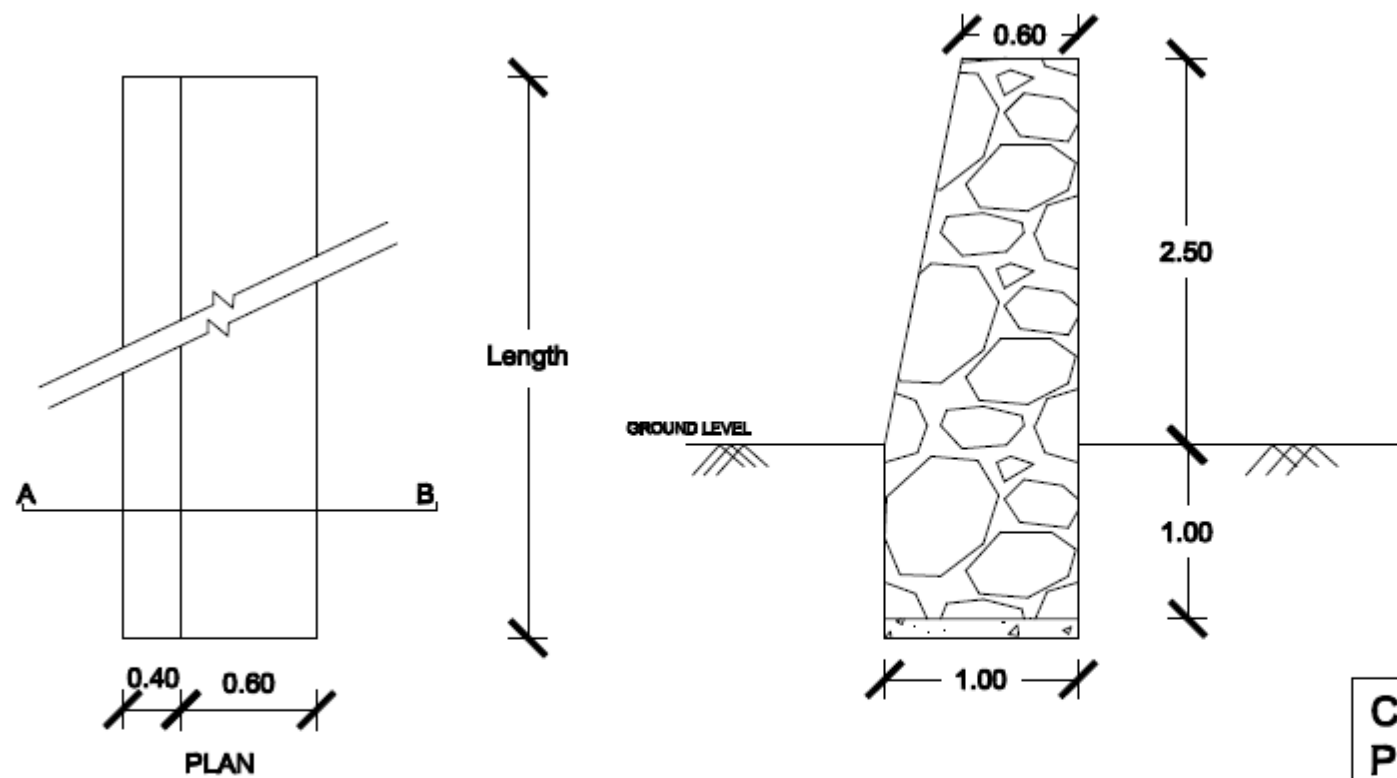
3380.6

Estimated amount for one metre length is

₹ 3380/-

For 100m, the amount is ₹ 338000

(Rupees three lakhs thirty eight thousand only)



CROSS SECTION AT A-B

## CONSTRUCTION OF PROTECTION WALL

NOT TO  
SCALE

All dimensions are in  
metres  
DRAWN BY

### ESTIMATE FOR CONSTRUCTION OF BETEL NUT SOAKING 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 ₹
			L	B	H				
1/3 (d)	Earth work in excavation to the proper grade including light dressing, providing cambering and super elevation as directed and removal of spoil upto 30m lead and all lift. d) Soft or laminated rock or medium shale								
		2	3.4	3.3	1.85	41.51	CU.M		
		<b>TOTAL</b>				<b>41.51</b>	<b>CU.M</b>	<b>63</b>	<b>2615.382</b>
2/3(i)	Earth work in excavation to the proper grade including light dressing, providing cambering and super elevation as directed and removal of spoil upto 30m lead and all lift. ) Extra for excavation in through cutting over 150 cm height at the lowest point.								
		2	3.4	3.3	1.85	41.51	CU.M		
		<b>TOTAL</b>				<b>41.51</b>	<b>CU.M</b>	<b>13</b>	<b>539.68</b>
3/25	Providing boulders or stone filling with unsized stone of one man size of 60 cm with behind the abutments, wing walls, retaining walls, etc within 200 m complete								
		2	3.4	3.3	0.25	5.61	SQ.M		
		<b>TOTAL</b>				<b>5.61</b>	<b>SQ.M</b>	<b>322</b>	<b>1806.42</b>
4/20	Providing regular stone masonry work in returning walls, breast walls and wing walls with hammer dressed or blunt chisel dressed stones of heavy section (size not less than 25cm x 25cm x 30cm), with proper key stones each not less than 25cm x 25cm x 75cm, in cement mortar 1:6 including carriage of stone within 200m and filling in trenches and providing weep holes at 1.2 to 1.5m apart (staggered), complete as directed.								
		4	3.3	1.85	0.4	9.77	CU.M		
		4	3.4	1.85	0.4	10.06	CU.M		
		<b>TOTAL</b>				<b>19.83</b>	<b>CU.M</b>	<b>1060</b>	<b>21021.92</b>
5/41	Providing shuttering with dressed planks not less than 25mm thick properly joined including battens, props to the proper level and removing of same after the concrete hardened complete as directed.								
		4	2.3	1.85		17.02	SQ.M		
		4	2.4	1.85		17.76	SQ.M		
		<b>TOTAL</b>				<b>34.78</b>	<b>SQ.M</b>	<b>92</b>	<b>3199.76</b>



6/28	Providing cement concrete work in proportion 1:3:6 with hard broken stone aggregates 40mm down graded, including necessary carriage of stone and sand within a distance of 200m and curing, complete as directed								
		2	3.4	3.3	0.1	2.24	CU.M		
		4	2.6	1.85	0.1	1.92	CU.M		
		4	2.5	1.85	0.1	1.85	CU.M		
		<b>TOTAL</b>				<b>6.02</b>	CU.M	<b>2344</b>	<b>14106.19</b>
7/27	Providing 12mm thick cement plastering including cleaning surface, curing carriage of sand within 200m complete.								
		2	2.4	2.3		11.04	SQ.M		
		4	2.4	1.85		17.76	SQ.M		
		4	2.3	1.85		17.02	SQ.M		
		4	3.4	0.3		4.08	SQ.M		
		4	3.3	0.3		3.96	SQ.M		
		2	14.4	0.5		14.40	SQ.M		
		<b>TOTAL</b>				68.26	SQ.M	92	6279.92
8	Providing filling fitting of G.I Pipe. in L.S.	431.00							
		<b>TOTAL</b>							431.00

**GRAND  
TOTAL**

**50000.28**

**SAY Rs  
50,000.00**

**( RUPEES FIFTY THOUSAND ) ONLY.**

ANNEXURE IV

**NOC, REGISTRATION CERTIFICATE, PHOTOS ETC.**

**RESOLUTIONS FOR THE CONSTITUTION OF WAH THYLLONG WATERSHED COMMITTEE (IWMP – 2010 – 2011) PROJECT– X  
HELD ON THE 4<sup>TH</sup> NOVEMBER 2010 AT NOHWET COMMUNITY PLAYGROUND.**

The meeting was presided by Shri Phlas Khongyang the Headman of Thiepskai who at the onset welcomed the officers of Soil & Water Conservation, Shillong Territorial, the village headmen of Nohwet, Riwai, Nongsohphan, Thiepskai and Nongthymmai and also the people of those villages for their participation which shows their utmost concern for the development and well being of the area. He then handed over to Shri L.Basaiawmoit, the Range Officer of Laitlyngkot Range to chair the meeting.

Shri. L.Basaiawmoit, started the meeting with an introduction. In his speech he also welcomed each and everyone present and urged the people to be committed and to work together with the Department for successful completion of the project and also to bring full benefit to the area. The welcome speech was given by Shri. M.Khongsdam headman of Nohwet village.

Smt.M.Diengdoh ASWCO gave a brief description of the Project and explained that the Project will be implemented through IWMP, funded by the Ministry of Rural Development, Department of Land Resources Government of India. The name of the Project is Wah Thyllong IWMP –X which include 5 Villages of Nohwet, Riwai, Nongsohphan, Thiepskai and Nongthymmai. The area to be treated is 1000ha @ Rs15000 per ha. The implementation of the project will be strictly adhered to the Common Guideline 2008. There will be two separate Bank accounts for the project the PIA account and WPA account which will be open in the Nationalized Bank;

The release of funds for the project will be:-

1 <sup>st</sup> Installment	-	20% or 30 lakhs
2 <sup>nd</sup> Installment	-	50% or 75 lakhs
3 <sup>rd</sup> Installment	-	<u>30% or 45 lakhs</u>
<b>Total</b>		<b>150 lakhs</b>

Watershed Management as a strategy will be adopted and will include:

1. Planning:
  - Detailed Baseline Survey will be conducted which involved household census Survey and Participatory Rural Appraisal (PRA) exercise.
  - Use of Geographical Information System (GIS) and Remote Sensing Planning.
2. Institution Building – Constitution of Watershed Committee and Sub – Committee, Self Help Groups, User Groups, etc.
3. Entry Point Activities (EPA) – To build a rapport with the village Community at the beginning of the project.
4. Watershed Development Works will include the following:

- Ridge Area Treatment Plans
- Land development Works
- Drainage Line Treatment
- Livelihood Activities for Landless
- Production System & Micro Enterprises.

Shri. P. Marwein, AS&WCO in delivering his speech explained the main breakup of the total cost of the Project as follows:

1. Administrative Cost	-	10% or 15 lakhs
2. Monitoring	-	1% or .1.5 lakhs.
3. Evaluation	-	1% or .1.5 lakhs
4. Preparatory Phase		
a) E.P.A.	-	4% or 6.00 lakhs
b) Training, Capacity building etc.	-	5% or 7.5 lakhs
c) DPR	-	1% or .1.5 lakhs
5. Watershed Work Phase		
a) Watershed work Activity	-	50% or 75 lakhs
b) Livelihood	-	10% or 15 lakhs
c) Production System	-	13% or 19.5 lakhs
6. Consolidation Phase & withdrawal Phase	-	<u>5%</u> or <u>7.5lakhs</u>

**Total 100% 150 lakhs**

Entry Point Activity, where the amount sanction is 4% for the activity like Water Harvesting, Renovation of spring chamber, washing platform etc. which belongs only to the community.

Participatory Rural Appraisal (PRA) needed to be done in order to prepare a Detailed Project Report.

He also explained the important role of the Watershed Committee in carrying out the Development work during and after the project implementation period and also the duties of the Chairman of the Committee, the formation of SHG's, UG's for maintaining the assets created once the project is completed.

Shri. Holland Khongyang Headman of Riwai village opens the meeting for discussion and queries from the villagers.

The meeting while selecting the Watershed Committee members decided that Shri. P. Marwein Assistant Soil & Water Conservation Officer, to conduct the election.

The meeting unanimously selected 4 (four) members from Nohwet, 3 (three) members from Nongsohphan, 3 (three) members from Riwai, 2 (two) members each from Thiepskai and Nongthymmai, and also elected Shri. M. Khongsdam as the Chairman of the Watershed Committee.

- |                               |   |          |
|-------------------------------|---|----------|
| 1. Shri. M. Khongsdam         | - | Chairman |
| 2. Smti. Probi Khongknaw      | - | Member   |
| 3. Shri. P. Khongsar          | - | -do-     |
| 4. Shri. Felix Khongwieng     | - | -do-     |
| 5. Shri. Telinson Iawlurs     | - | -do-     |
| 6. Smti. Aikut Kharluni       | - | -do-     |
| 7. Shri. Holland Khongyang    | - | -do-     |
| 8. Shri. Kribarton Khongmen   | - | -do-     |
| 9. Smti. Melantis Myllemngap  | - | -do-     |
| 10. Shri. Baison Khongthohrem | - | -do-     |
| 11. Shri. Teiborlang Khongjee | - | -do-     |
| 12. Shri. Phlas Khongyang     | - | -do-     |
| 13. Shri. Ksanbok Khongyang   | - | -do-     |
| 14. Shri A.L. Khongsdam       | - | -do-     |

The member also decided to select the Assistant Soil & Water Conservation Officer AS&WCO, Smti M. Diengdoh, to be the Secretary in the Watershed Committee.

The meeting also decided to open the Watershed Project Account at Meghalaya Co-operative Apex Bank, Pynursla Branch, which will be jointly operated by the project Leader, Chairman and the Secretary of the Watershed Committee.

The meeting was concluded by the vote of thanks from Shri. Felix Khongwieng, Headman of Nongsohphan.

Signatures of members present is attached herewith:-

Members present at the meeting of Wab Thyllong  
Waterstand Committee held on the 4th November 2015 at  
Nhauiet.

<u>Sl. No.</u>	<u>Name of Member</u>	<u>Designation</u>	<u>Signature</u>
1.	Smti- M. Dvongdole	Secretary	
2.	Shri- M. Khongsidom	Chairman	
3.	Smti- Paksai Khongkhaew	Member	
4.	Shri- Telinson Isachue	"	
5.	Shri- Holland Khongjeng	"	
6.	Shri- Kairatun Khongma	"	
7.	Shri- Baisai Khongthokrom	"	
8.	Shri- Teitabang Khongjee	"	
9.	Shri- Phai Khongiang	"	
10.	Shri- Ksantok Khongiang	"	



# Certificate of Registration of Societies

ACT 12 OF 1983

No. E-16/5/ of 2010/218

I hereby certify that Wah Thylleng Watershed Committee

IXIX-VII 2010-11

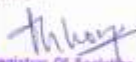
has this day been registered under Meghalaya Societies Registration Act,  
12 of 1983.

Given under my hand at Shillong

this 14th day of April

Two thousand and eleven

Registration fee of Rs. Two hundred and fifty only.

  
Joint Registrar Of Societies  
East Khasi Hills District  
Registration Societies,  
Meghalaya, Shillong.

OFFICE JONG KA DORBAR SHNONG NOHWET  
EAST KHASI HILLS DISTRICT  
P.O. LYNKGHAT VIA DAWKI MEGHALAYA

Ref No: \_\_\_\_\_

Date: \_\_\_\_\_

No. EJECTION CERTIFICATE

Mja. to Middleme Khongdam, Rangbah Shong Ka Nohwet  
ngam dan Kano Kano Ka jingjor no pyashah in  
Ka hah Thyllong Kachahed Committee ba hah  
hah ba pyah in hi ka jang ka Kachahed.

Set. 6th 2011

*M. J. 28*  
Middleme Khongdam  
Rangbah Shong Ka Nohwet.  
Rangbah Shong  
Nohwet





Speech by the Headman of Riwai Village at the Awareness Programme held at Nohwet



Speech by the Headman of Nohwet Village at the Awareness Programme held at Nohwet



Interaction from the villagers in the Awareness Programme at Nohwet



People attending the Awareness Programme held at Nohwet



Resource Mapping of the Watershed Area



Exercises on Social Mapping



Explanation on the exercises done under PRA by the WDT Member



A brief explanation about the Scheme by Shri P. Marwein AS&WCO





Speech by the Headman of Riwai Village during the Awareness Programme



Speech by the Headman of Nohwet Village during the Awareness Programme



Interaction from the villagers during the Awareness Programme



People attending the Awareness Programme