

DETAILED PROJECT REPORT

LOWER WAH SOHRA INTEGRATED WATERSHED MANAGEMENT PROJECT

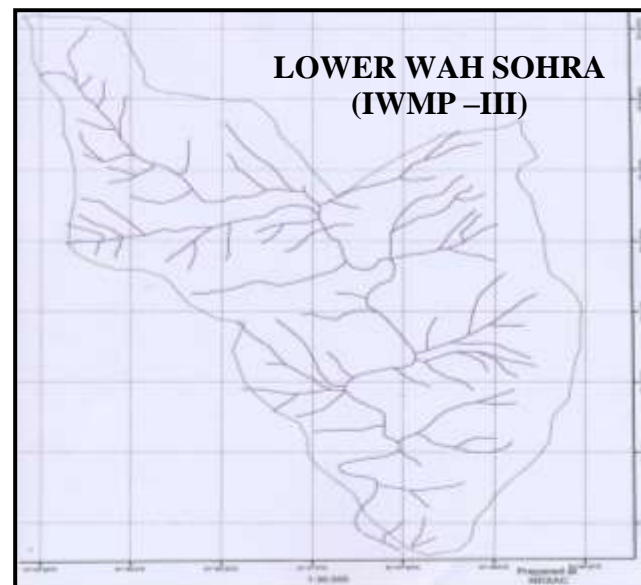
IWMP – III

2009 – 2010

LAITKROH KHATARSHNONG C & RD BLOCK

EAST KAHSI HILLS DISTRICT

MEGHALAYA



SUMMARY

Name of the State	:	Meghalaya
Name of the District	:	East Khasi Hills District
Name of the C&RD Block	:	Laitkroh Khatarshnong
Name of the Villages	:	(i) Sohkynduh (ii) Mawskhen (iii) Rymmai (iv) Mawbawein (v) Pdang (vi) Dewiong (vii) Dewsaw
Name of the Project	:	East Khasi Hills – IWMP – III
Total Geographical Area	:	1770 Ha
Total Treatment Area	:	1000 Ha
Total Project Cost	:	150 lakhs
Project Duration	:	5 Years
Project Implementing Agency	:	Soil & Water Conservation Territorial Division, Shillong.

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CHAPTER I

INTRODUCTION AND BACKGROUND

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INTRODUCTION AND BACKGROUND

1.1 Project Background:

The Lower Wah Sohra (IWMP-III) project is located in Laitkroh C&RD Block, East Khasi Hills District of Meghalaya. Consisting of a single micro-watershed, the project area is drained by the Wah Sohra River and its tributaries flowing in a north to south direction. The total area is 1770 Ha. with 1000 to be treated under the Integrated Watershed Management Programme (IWMP).

The Project area is located at a distance of about 35 km from Sohra the Civil Sub-Divisional Head Quarter and about 75 km from Shillong the District Headquarter and also the State Capital. A total of seven villages are covered under the project. These are –

- 1 Sohkynduh
- 2 Mawskhen
- 3 Rymmai
- 4 Mawbawein
- 5 Pdang
- 6 Dewiong
- 7 Dewsaw

1.2 Micro-watershed Information:

The micro-watershed code is 3C1C1a2b as codified by the North East Space Application Centre (NESAC). The total area of the micro-watershed is 1770 Ha., with 1000 hectares to be treated under the Integrated Watershed Management Programme (IWMP).

1.3 Need and Scope for Watershed Development:

The micro-watershed 3C1C1a2b falls under the High Priority category as per the prioritization of watersheds by the North East Space Application Centre (NESAC). Located on the slopes of the deep gorges of the Sohra Plateau the 7 villages do not have any road connectivity. The farmers are all marginal and 146 households are below the poverty line, which is 62.9% of the total households. Jhum cultivation is practiced by most of the inhabitants of these villages on the slopes.

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

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

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

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

CHAPTER II

BASIC INFORMATION OF THE PROJECT AREA

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BASIC INFORMATION OF THE PROJECT AREA

2.1 Location:

The Project area is located within the area of 12 Raij or 12 Sordar popularly known as Khatarshnong under Laitkroh C&RD Block of Sohra Civil Sub-Division, East Khasi Hills District. It is situated at a distance of about 35 km from Sohra the Civil Sub-Divisional Head Quarter and about 75 km from Shillong the District Headquarter which is also the State Capital. The geographical location is between $91^{\circ} 45'$ to $91^{\circ} 48' 30''$ E Longitude and $25^{\circ} 15'$ to $25^{\circ} 15' 30''$ N Latitude. There are 7 villages within the Watershed which are as follows –

1. Sohkynduh
2. Mawskhen
3. Rymmai
4. Mawbawein
5. Pdang
6. Dewiong
7. Dewsaw

At present, these seven villages are not yet connected to any motorable road.

2.2 Physiography:

The physiography of the micro-watershed is highly undulating. The altitude ranges from a minimum of 300m to a high of 1300m above mean sea level. In the lower reaches (valley lands) the slope ranges from 25% to 35%, however, in the middle and upper reaches it is greater than 45 %, and can reach up to 180%.

Table 2.1: Physiographic details

Elevation (metres)	Slope Range (%)	Order of watershed Sub/Micro-watershed	Major streams	Topography
300 m to 1100 m	25% to 180 %	Micro Watershed	Wah Sohra	Strongly Sloping

2.3 Drainage: The major stream draining the micro-watershed is the Wah Sohra which is a 4th order stream flowing in a north-south direction. The slopes of the micro-watershed are dissected by numerous small tributaries flowing to the Wah Sohra.

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

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

1	2	3	4	5	6	7	8	9
Sl. No.	Names of State	Names of District	Names of Projects	Cause	Types of erosion	Area affected (ha)	Run-off (mm/ year)	Average soil loss (Tonnes/ ha/ year)
1	Meghalaya	East Khasi Hills	East Khasi Hills – IWMP III	Water erosion:				
				a	Sheet	750	2500-4000	40.90
				b	Rill	350	2500-4000	30.00
				c	Gully	200	2500-4000	30.00
				Sub total				
				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 9000mm.

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

1	2	3	4	5	6	7		8	9	
Sl. No.	Name of State	Name of the Agro-climatic zone	Area (in ha)	Names of the districts	Names of the Projects	Major soil types		Average annual rainfall in mm (preceding 5 years' average)	Major crops	
						a) Type	b) Area (ha)		a) Name	b) Area (ha)
1	Meghalaya	Southern Slopes and Valley	1000 Ha	East Khasi Hills	East Khasi Hills – IWMP – III	Moderate shallow, excessively drained, fine – loamy soil on moderately steep side slopes of hills having loamy surfaces with severe erosion hazard and strong stoniness associated with moderately Shallow, excessively drained, loamy skeletal soils on gently sloping hill tops with very severe erosion hazard and slight stoniness	1770 Ha	9000 mm	Betel nut	120
									Betel leaf	30
									Oranges	50
									Bay leaf	20
									Broom stick	560
									Black pepper	20
									Litchi	20
									Banana	15
									Pineapple	51
								Total		886 Ha

2.6 Agriculture: Agriculture is the primary occupation of the people of the area. The people mostly practice jhum. The jhum plots vary from 0.5 to 1.0 Ha, and are cultivated for 3-4 years. The principal agricultural crops grown of the jhum fields are potato, sweet potato, millet, maize, yam and vegetables. Fruit crops are well suited in the lower reaches which include *Prunus nepalensis*, *Elaeagnus latifolia*, orange, pineapple, jackfruit, litchi. The slopes of the Lower Wah Sohra are also very suitable for betel nut, betel leaf, black pepper, broomstick, which contribute to the income of the people.

Table 2.4: Crop yield and production

Crops	Area (ha)	Average Yield (Qtl) per ha.	Total Production (Qtl.)
Potato	400	50	20000
Millet	125	10	1250
Soyabean	100	10	1000
Yam	250	18	4500
Ginger	250	60	5000
Tapioca	250	40	10000
Betel nut	350	9	3150
Betel leaf	350	25	8750
Black Pepper	50	6	300
Oranges	200	40	8000
Bay Leaf	300	20	6000

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

2.8 Socio-Economic Profile: Economically, the area is perhaps the most backward in the district. The main reason is due to the absence of 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 222 with a total population of 1064, of which 543 are male and 521 are female. The detail of the household in each of the villages in the watershed project is as follows:

1.	Sohkynduh	-	113 Nos
2.	Mawskhen	-	12 Nos
3.	Rymmai	-	32 Nos
4.	Mawbawein	-	26 Nos
5.	Pdang	-	12 Nos
6.	Dewiong-Dewsaw	-	27 Nos
			222 Nos

Infrastructure facilities :

- 2.1.1 *Roads:* All the villages within the Project Area are not connected by road. The Project area depends entirely on the kutcha road connected either to Laitryngew or Mawjrong.
- 2.1.2 *School:* there are only 5 L.P Schools within the Project Area run either by the Mission or by the Government.
- 2.1.3 *Electricity :* Connections have been provided but some villages are yet to have electricity.
- 2.1.4 *Health :* One Community Health Centre at Khrang in under construction and the local population have to either depends on facilities available at Sohra or Shillong.
- 2.1.5 *Water Supply :* Drinking water supply have been provided by the PHE Deptt. Except Pdang village. However, during lean season the entire population have 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 Khrang. However, the main market where the people sell their produce is at Sohra and also 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 3 hrs walking from the motorable junction			
		(ii)	No. of village provided with electricity	5 nos. electrified and 2 without electricity			
		(iii)	No. of households without access to drinking water	40 nos.			
		(iv)	No. of educational institutions: Primary (P)/ Secondary (S)/ Higher Secondary (HS)/ Vocational institution (VI)	(P)	(S)	(HS)	(VI)
				5 Nos.	-	-	-
		(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	1 No.			
		(xiv)	Any other facilities with no. of villages (please specify)	Nil			

2.9 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	55
Poultry	1100
Apiculture in unit	100
	1255

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

Table 2.7: Land Holding:

1	2	3	4	5	6		
Name of District	Name of the Project	Types of Farmer	No. of households	No. of BPL households	Land holding (ha)		
					Irrigated	Rainfed	Total
East Khasi Hills	East Khasi Hills – IWMP III	(i) Large	-	-			
		(ii) Small	-	-			
		(iii) Marginal	209	123	-	886 Ha	886 Ha
		(iv) Landless	23	23	-	-	-
		Sub - Total	232	146		886 Ha	886 Ha

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 III	(i) Wasteland/ degraded land	-	-		778.0 Ha	-	-	-	670 Ha
		(ii) Pastures	-	-	-	-	-	-	-	-
		(iii) Private Agriculture land	886 Ha	-	-	-	330 Ha			
		(iv) Village woodlot	-	-	-	-				
		(v) Forest	-	-	-	46 Ha				
		(vi) Village Ponds/ Tanks	-	-	-	-				
		(vii) Community Buildings	-	5 nos.	-	4 Nos.				
		(viii) Weekly Markets	-	-	-	Cherrapunjee				
		(ix) Permanent Markets	-	-	-	Cherrapunjee				
		(x) Temples/ Places of worship	-	-	-	Church- 1 no				
		(xi) Others (Pl. specify)		-	-	60 Ha				
		Total	886 Ha	-	-	884 Ha	330 Ha	-	-	670 Ha

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

a) Built-up Area	=	18.80 Ha
b) Water bodies-River/Stream-Perennial	=	41.08 Ha
c) Agricultural land-crop land-kharif crop	=	2.80 Ha
d) Tree clad Area-close	=	778.2 Ha
e) Tree clad Area-open	=	882.8 Ha
f) Wastelands-barren Rocky/Stony waste	=	<u>46.32 Ha</u>
Total	=	1770 Ha

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

CHAPTER III

PROJECT PLANNING & INSTITUTION BUILDING

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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
A.	Planning	
	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 [#]	No
	Integrated coupled analyzer/ near infrared visible spectroscopy/ medium spectroscopy for high speed soil nutrient analysis	No
	Normalized difference vegetation index (NDVI)#	Yes
	Weather Stations	No
B.	Inputs	
	1. Bio-pesticides	No
	2. Organic manures	Yes
	3. Vermi-compost	Yes
	4. Bio-fertilizer	Yes
	5. Water saving devices	Yes
	6. Mechanized tools/ implements	No
	7. Bio-fencing	Yes
	8. Nutrient budgeting	Yes
	9. Automatic water level recorders & sediment samplers	Yes
	Any other (please specify)	-

3.2 Project Implementing Agency:

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

1	2	3	
Names of Districts	Names of projects	Details of PIA	
East Khasi Hills	East Khasi Hills – IWMP III	(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 Sohra, IWMP III was constituted with the active involvement of the villagers with strong support of the Traditional Institutions (Village Durbar/Council). The Lower Wah Sohra Watershed Committee has been registered under the Society Registration Act 1860.

Table 3.2: Details of Watershed Committees (WC):

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Names of the Districts	Names of projects	Names of WCs	Date of Registration as a Society (dd/mm/yyyy)	Designation	M/F	SC	ST	SF	MF	LF	Land-less	UG	SHG	GP	Any other	Educational qualification	Function/s assigned#
East Khasi Hills District	East Khasi Hills District – IWMP – III	Lower Wah Sohra	02/03/2010	President	M	-	ST							1		Cl – X	A to I
				Secretary	M	-	ST								1	B.E	A to I
				Member	10 M	-	ST				1	1	2	6		Cl – VI	Do
				Member	4 F	-	ST					3	1			to M.A	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 III	-	-	1 no	1 No	(i) Landless									
						(ii) SF									
						(iii) MF	7	5	12	7	5	12	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

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4.1 Preparatory Phase:

i) Entry Point Activities (EPA)

(Financial – Rs. in lakh)

1	2	3	4	5	6	7	8	9	10	11
Sl. No.	State	District	Names of Project	Amount earmarked for EPA	Entry Point Activities planned	Estimated cost	Expenditure incurred	Balance	Expected outcome	Actual outcome
1	Meghalaya	East Khasi Hills	East Khasi Hills – IWMP III	6.0 Lakhs	Construction of Ropeway Construction of Godown	4.00 2.00	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 (Rs. In lakh)
East Khasi Hills	East Khasi Hills – IWMP III	1 no. W/C 6 nos. Sub Watershed Committee at each benefiting village	3 nos.	2 nos.	Participatory Rural Appraisals	N.A	Done	Done	Done	Done	Entry Point Activity	15.0

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. No	Name of States	Name of Districts	Name of Projects	Type of structures	Pre Project			Proposed Project											
					No	Area irrigated (ha)	Storage capacity	Augmentation/ repair of existing structures				Construction of new structures				Total target			
								No	Area to be treated (ha)	Storage capacity	Estimated cost (in lakhs)	No	Area to be treated (ha)	Storage capacity (per unit)	Estimated cost (in lakhs)	No	Area to be treated (ha)	Storage capacity (m ³)	Estimated cost
1	Meghalaya	East Khasi Hills	East Khasi Hills – IWMP III	(i) Tank	-	-	-	6 Nos.	-	20 m ³	3.0	7 nos.	-	25 m ³	7.00	7 nos.	-	175	7.00
				(ii) Pond	-	-	-	-	-	-	-	5 nos.	80.66 Ha	3000 m ³	7.50	5 nos.	80.66 Ha	15000	7.50
				(iii) Lake	-	-	-	-	-	-	-	-	-	-	-	-	--	-	-
				(iv) Check Dam	-	-	-	-	-	-	-	19 nos	260 Ha	3000 m ³	13.30	19 nos.	260 Ha	57000	13.30
				(v) Percolation Tank	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				(vi) Channel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				(vii) Any others (please specify)															
			Total					6 nos.	-	20 m³	3.0	31 nos	340.66 Ha	6025 m³	27.80	31 nos.	340.66 Ha	72175	27.80

8											9	10
Achievement due to project												
Augmentation/ repair of existing structures				Construction of new structures				Total achievement			Change in storage capacity (col 8-6)	Change in irrigated area (ha) Col. (8-6)
No	Area irrigated (ha)	Storage capacity	Expenditure incurred (in lakhs)	No	Area irrigated (ha)	Storage capacity	Expenditure incurred (in lakhs)	Area irrigated (ha)	Storage capacity	Estimated incurred		-
6 Nos	-	20 m ³	3.0	7 nos.	-	25 m ³	7.00	-	175 m ³	7.00	175 m ³	
-	-	-	-	5 nos.	80.66 Ha	3000 m ³	7.50	80.66 Ha	15000 m ³	7.50	15000 m ³	80.66 Ha
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	19 nos.	260 Ha	3000 m ³	13.30	260 Ha	57000 m ³	13.30	57000 m ³	260 Ha
6 Nos.	-	20 m ³	3.0	31 nos.	340.66 Ha	6025 m ³	27.80	340.66 Ha	72175 m ³	27.80	72175 m ³	340.66 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		Nil			Nil			Nil			Nil			Nil				
				(ii)Bore wells																				
				(iii)Any others (Pl. specify)																				
				Total for the project																				

4.2.3 Activities executed by User Groups in the Project Areas.

	2	3						
Names of Districts	Names of Projects	Major activities of the UGs –Targets						
		Structure/ activity proposed				No. of UGs involved	Estimate d Cost	Amount of WDF to be collected (Rs.)
		Sl. No.	Type	No.#	Treatment (ha)			
East Khasi Hills	East Khasi Hills – IWMP III	1.	Rural Godown	2 unit	-	2 nos.	4.0	0.20
		2.	Cable Taxiing	2 unit	-	2 nos.	7.0	0.35

4.2.4 Activities executed by User Groups in the Project Areas:

4									
Major activities of the UGs – Achievements									
Structure/ activity				No. of UGs involved	Expenditure incurred (Rs.)	No. of mandays			Amount of WDF collected (Rs.)
Sl. No.	Type	No.#	Treated Area (ha.)			SC	ST	F	
1.	Rural Godown	2 Nos	-	2 Nos	4.0	-	1600	-	0.20
2.	Cable Taxiing	2 Nos	-	2 Nos	7.0	-	2800	-	0.35

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

1	2	3		
Names of the Districts	Names of projects	Major activities of the SHGs		
		Name of activity	No. of SHGs involved	Average annual income from activity per SHG
East Khasi Hills	East Khasi Hills – IWMP III	1. Tailoring	2 nos.	60,000
		2. Basket Making	6 nos.	1,20,000
		3. Stabilized Mud Block	2 nos.	1,10,000
		4. Piggery Farming	2 nos.	85,000
		5. Vermi Composting	2 nos.	60,000
		6. Fruit Processing	1 no.	1,00,000
		7. Canes & Handicraft	2 nos.	1,20,000

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

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

4.2.7 Other activities of watershed works phase:

1	2	3		4		5		6		7		8		9		10		11		12		13
District	Names of projects	Ridge area treatment		Drainage line treatment		Nursery raising		Land development		Crop demonstrations		Pasture development		Veterinary services		Fishery development		Non-conventional energy		Any other (please specify)		Total cost incurred (Rs. In lakhs)
		(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	
EKH	IWMP -III	659.34 Ha	51.60	26 Ha	23.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	75.0

4.2.8 Details of engineering structures in watershed works:

1	2	3	4			5			6	7					8							
District	Project	Name of structures	Type of treatment			Type of land			Executing agency	Target					Achievement							
			(i) Ridge area (R)	(ii) Drainage line (D)	(iii) Land Dev. (L)	(i) Private	(ii) Community	(iii) Others (pl. specify)	(i) UG (ii)SHG (iii) Others (pl. specify)	No. of units (No./ cum./ rmt)	Estimated cost (Rs. in lakh)				Expected month & year of completion (mm/yyyy)	No. of units (No./ cu.m./ rmt)	Expenditure incurred (Rs. in lakh)				Status of completion	Actual month & year of completion (mm/yyyy)
											M	W	O	T			M	W	O	T		
		Staggered trenching																				
		Loose boulder Contour bund	R	-	-	Private	-	-	Beneficiary	200 Ha					3 yrs	-	-	-	-	-	-	-
		Graded bunding																				
		Bench terracing																				
		Earthen checks dams																				
		Masonry stop dams																				
		Gully plug																				
		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 (Rs.)		Mandays generated					No. of beneficiaries				
		Pre- project	Post project	Pre- project	Post project	Pre- project	Post project	SC	ST	Others (Men)	Women	Total	SC	ST	Others	Women	Total
Na	209.34	Na	-	Na	-	Na	-	-	6280	3480	2800	6280	-	220	120	100	220

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

1	2	3	4			5			6	7				8			
District	Project	Name of structure/ work	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)	Area (ha)	No. of plants	Estimated cost (Rs. in lakh)	Expected month & year of completion (mm/ yyyy)	Area (ha)	No. of plants	Expenditure incurred (Rs. in lakh)	Actual month & year of completion (mm/ yyyy)
		Afforestation															
		Regeneration				✓				100 ha		3.60	3 yrs	-	-	-	-
		Agro-forestry					✓			100 ha		10.10	3yrs	-	-	-	-
		Fuel wood															
		Fodder															
		Agro-Horticulture				✓				200 ha		17.20	3 yrs	-	-	-	-
		Pasture dev.															
		Nursery raising															
		Others (Coffee)				✓				50 ha		5.00	3 yrs	-	-	-	-

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

4.2.12 Details of allied / other activities:

1	2	3	4			5	6		7	
District	Project	Name of activity@	Type of land			Executing agency	Target		Achievement	
			(i) Private	(ii) Community	(iii) Others (landless)		Estimate d cost (Rs. in lakh)	Expected month & year of completion (mm/yyyy)	Expendi- ture incurred (Rs. in lakh)	Actual month & year of completion (mm/yyyy)
East Khasi Hills	Lower Wah Sohra IWMP III	Tailoring – 10 units	-	-	10 units	SHG's	0.80	3 yrs.		
		Carpentry/ Agri- implements/ Basket making etc – 110 nos.			110 units	SHG's Individual	5.50	3 yrs.		
		Bee keeping			250 units	Do	2.50	3 yrs.		
		Backyard poultry			6 units	Do	1.20	3 yrs.		
		Stabilized Mud Block			6 units	SHG's	1.20	3 yrs.		
		Piggery Farming			6 units	SHG's	1.20	3 yrs.		
		Vermi-Composting			6 units	SHG's	1.50	3 yrs.		
		Kitchen gardening			240 units	Individual	15.00	3 yrs.		
		Fruit processing			3 units	SHG's	1.20	3 yrs.		
		Others (Rural godown,			1 units	UG's	2.00	1 yrs.		
		Cableway taxiing			1 units	UG's	3.00	1 yrs.		
		Canes & handicrafts.			7 units	SHG's	1.40	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 coulumn no. 7, agency-wise totals, from column no. 8, total estimated cost, from column no. 9, total expenditure incurred, structure-wise no. of completed works, from column no. 10, item-wise totals, for the entire country may be indicated at the end of the table

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

4.2.13 Details of allied / other activities:

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

4.3 Consolidation and withdrawal phase

Details of activities in the CPRs in the project areas:

1	2	3	4	5	6				7						
Names of the Districts	Names of projects	Name(s) of the villages	CPR particulars	Activity proposed	Target				Achievement						
					Target area under the activity (ha)	Estimated expenditure (Rs.)	Expected no. of beneficiaries	Estimated contribution to WDF (Rs.)	Area treated under the activity (ha)	Expenditure incurred (Rs.)	Actual no. of beneficiaries	No. of mandays			WDF collected (Rs.)
												SC	ST	F	
		Sohkynduh	D/Water		-	0.50									
		Mawskhen	Cable car		-	0.50									
		Rymmai	Do		-	0.50									
		Mawbawein	D/Water		-	0.50									
		Pdang	Do		-	0.50									
		Dewiong	Do		-	0.50									
		Dewsaw	Do		-										

CHAPTER V
PROJECT PHASING & BUDGETING

CHAPTER V

PROJECT PHASING & BUDGETING

ACTION PLAN OF LOWER WAH SOHRA WATERSHED UNDER IWMP – III, TERRITORIAL DIVISION : SHILLONG

Name of District: East Khasi Hills

No. of villages – 7 nos.

Name of C&RD Block: Laitkroh Khatarshnong.

Project Area – 1000 Ha.

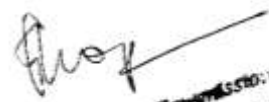
Sl. No	Activities	I st Year		II nd Year		III rd Year		IV th Year		V th Year		Total	
		Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
1	2	3	4	5	6	7	8	9	10	11	12	13	14
I	ADMINISTRATIVE COST	0%	0	2%	3	5%	7.5	3%	4.5	0%	0	10%	15
i.	Honorarium of WDT Members @ Rs. 5000/ month – 1 no.	0	0	12 months	0.6	12 months	0.6	12 months	0.6	0	0	4 yrs	1.8
ii.	Hon ^{rm} of Watershed Volunteers @ Rs. 2500/- month – 2 nos.	0	0	12 months	0.6	12 months	0.6	12 months	0.6	0	0	4 yrs	1.8
iii.	Hon ^{rm} WCO's @ Rs. 750/ month.	0	0	12 months	0.09	12 months	0.09	12 months	0.09	0	0	4 yrs	0.27
iv.	Hon ^{rm} WCM @ Rs. 100/members/ month for 25 nos.	0	0	12 months	0.3	12 months	0.3	12 months	0.3	0	0	4 yrs	0.9
v	Hon ^{rm} Office assistance @ Rs. 3000/- month.	0	0	12 months	0.36	12 months	0.36	12 months	0.36	0	0	4 yrs	1.08
vi	Hon ^{rm} Chartered Accountant	0	0	-	0.15	-	0.15	-	0.15	0	0	2.9 yrs	0.45
vii	TA/DA of Field Asstt	0	0	6 months	0.3	12 months	0.6	6 months	0.6	0	0	3.3 yrs	1.5
viii	Hiring charges of office building @ 1000	0	0	12 months		12 months	0.12	12 months	0.12	0	0	4 yrs	0.24
ix.	Hiring charges of vehicle	0	0	6 months	0.3	12 months	0.6	-	0.6	0	0	2 yrs	1.5
x	Office expenses, POL, Stationeries, printing of SHG's books, pamphlets, tea, snacks etc, cost of camera.	0	0	-	0.3	-	4.08	-	1.08	0	0	-	5.46
	Total of I:	0%	0	2%	3	5%	7.5	3%	4.5	0%	0	10%	15
II	MONITORING	0.0%	0	0.2%	0.3	0.5%	0.75	0.3%	0.45	0.0%	0	1%	1.5
III	EVALUATION	0.0%	0	0.3%	0.45	0.5%	0.75	0.2%	0.3	0.0%	0	1%	1.5

Sl. No	Activities	I st Year		II nd Year		III rd Year		IV th Year		V th Year		Total	
		Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
1	2	3	4	5	6	7	8	9	10	11	12	13	14
A.	Entry Point Activities:			-	-	-	-	-	-	-	-		
i.	Construction of Rope way	1 unit	4	0	0	0	0	0	0	0	0	1 unit	4
ii.	Construction of Godown	1 unit	2	0	0	0	0	0	0	0	0	1 unit	2
	Sub Total of A:	4%	6	0%	0	0%	0	0%	0	0%	0	4%	6
B.	Institution & Capacity Building												
i.	Awareness Campaign & Capacity building	2 nos	0.3			0	0			0	0	2 no	0.3
ii.	Exposure visits – off. Campus			1 Nos.	0.5	0	0	1 no.	0.5	0	0	2 no	1
iii.	Capacity building of SHG's/ UG's.			5 nos.	1.3	4 nos.	1	3 no.	0.75	0	0	12 nos.	3.05
iv.	Capacity building of WC Members.	4 nos.	0.6	4 nos.	1.2	1no.	0.25	1 no.	0.25	0	0	10 nos.	2.3
v.	Capacity of WDT/WV	4 nos.	0.6			1 no.	0.25			0	0	5 nos.	0.85
	Sub Total of B:	1%	1.5	2%	3	1%	1.5	1%	1.5	0%	0	5%	7.5
C.	Detailed Project Report:											1%	1.5
i.	Cost of Resources Inventories works	-	0.25	0	0	0	0	0	0	0	0	0	0.25
ii.	Cost of PRA Exercises	-	0.5	0	0	0	0	0	0	0	0	0	0.5
iii.	Cost of Land use Survey works	-	0.25	0	0	0	0	0	0	0	0	0	0.25
iv.	Cost of formulating	-	0.5	0	0	0	0	0	0	0	0	0	0.5
	Sub Total of C:	1%	1.5	0	0		0		0		0	1%	1.5
	Total of IV:	6%	9	2%	3	1%	1.5	1%	1.5		0	10%	15

1	2	3	4	5	6	7	8	9	10	11	12	13	14
V	WATERSHED WORKS PHASE :				-	-	-	-	-	-	-	-	-
A.	Watershed Development Works	0%	0	7.5%	11.25	35.0%	52.5	8%	11.25	0%	0	50%	75
1	Arable Land Treatment:												
i.	Loose boulder Contour Bunds @ Rs. 7500/ ha for 209.34 ha	0	0	80 ha	6	129.34	9.70			0	0	200 Ha	15.7
iii.	Agro-Horticulture Devt. Rs. 8600/ ha for 200 ha	0	0	173	2.25	200	9.55	200	5.4	0	0	200 ha	17.2
2	Non- Arable Land Treatment:												0
i.	Agro-Forestry Devt. works @ Rs. 10,100/ ha for 100 ha	0	0			100 ha	7.2	100 ha	2.9	0	0	100 ha	10.1
ii	Improvement of existing Degraded Forest @ Rs. 3600/ ha for 100 ha	0	0			100 ha	2.6	100 ha	1	0	0	100 ha	3.6
iii.	Coffee Devt. works for 50 ha @ Rs. 10,000/ ha	0	0			50 ha	4	50 ha	1	0	0	50 ha	5
3	Drainage Line Treatment:												0
i.	Water Harvesting Structures @ 1,50,000 – 80.66 ha	0	0	2 Nos.	3	3	4.5	-	0	0	0	5 Nos.	7.5
ii.	Water Distribution Works – 260 ha	0	0	0		18 nos	12.35	1 no.	0.95	0	0	19 Nos.	13.3
iii.	Footbridges	0	0			2 Nos.	2.6	0	0	0	0	2 Nos.	2.6
	Sub Total of A :	0%	0	7.5%	11.25	35.0%	52.5	7.5%	11.25	0%	0	50.0%	75
B.	Livelihood Activities for landless persons:	0%	0	1%	1.5	3%	4.5	6%	9	0%	0	10%	15
i.	Tailoring @ Rs. 8,000/-	0	0	0	0	5 units	0.4	5 units	0.4	0	0	10 units	0.8
ii.	Carpentry/ Agri- Implements/ Basket Making/Piggery/ Poultry etc @ Rs. 5000/-	0	0	30	1.5	40 units	2	40 units	2	0	0	110 units	5.5
iii.	Hollow Block making/ Stabilized Mud block making Rs. 20,000/-	0	0	0	0	3 units	0.6	3 units	0.6	0	0	6 units	1.2
iv.	Vermi-Composting @ Rs. 25,000/-	0	0	0	0	2 units	0.5	4	1	0	0	6 units	1.5
v.	Kitchen Gardening @ Rs. 2500/-	0	0	0	0	40 units	1	200 units	5	0	0	240 units	6
	Sub Total of B:	0%	0	1%	1.5	3%	4.50	6%	9	0%	0	10.0%	15

C.	Production System and Micro Enterprises (SHG's):	0%	0	1%	1.5	5%	7.5	7%	10.5	0%	0	13%	19.5
i.	Betel nut soaking Tank @ Rs. 1,00,000/-	0	0	1	1	3 units	3	3 units	3	0	0	7 units	7
ii	Fruit Processing unit @ Rs. 40,000/ unit	0	0	0	0	1 unit	0.4	2 unit	0.8	0	0	3 unit	1.2
iii	Rural godown/ cold storage	0	0	0	0	1 unit	2	0	0	0	0	1 unit	2
iv	Cableway taxing @ Rs. 3,00,000/ unit	0	0	0	0	0	0	1	3	0	0	1 unit	3
v	Apiculture @ Rs. 1000/ unit	0	0	50 units	0.5	90 units	0.9	110 units	1.1	0	0	250 units	2.5
vi	Piggery @ 20,000/ unit	0	0	0	0	2 units	0.4	4 units	0.8	0	0	6 units	1.2
vii	Poultry @ Rs. 20,000/ unit	0	0	0	0	2 units	0.4	4 units	0.8	0	0	6 units	1.2
viii	Canes & Handicrafts @ Rs. 20,000/ unit	0	0	0	0	2 units	0.4	5 units	1	0	0	7 units	1.4
	Sub Total of C :	0%	0	1.00%	1.5	5.00%	7.5	7.00%	10.5	0.00%	0	13%	19.5
	Total of V:	0	0		14.25		64.5		30.75		0		109.5
VI	Consolidation Phase:	0%	0	0%	0	0%	0	0%	0	5%	7.5	5%	7.5
i.	Repairs, Maintenance of CPR's.	0	0	0	0	0	0	0	0	0	3	-	3
ii.	Improving the sustainability of various Interventions	0	0	0	0	0	0	0	0	0	2	-	2
iii.	Documentation of successful experiences & Preparation of Completion Report	0	0	0	0	0	0	0	0	0	2.5	-	2.5
	Sub Total of VI:	0	0	0	0	0	0	0	0	5%	7.5	-	7.5
	Total of I,II,III,IV,V,VI	6%	9	14%	21	50%	75	25%	37.5	5%	7.5	100%	150

Approved by:

for 
Deputy Commissioner
and District Panchayat

**VILLAGE WISE ACTION PLAN OF LOWER WAH SOHRA WATERSHED UNDER IWMP – III,
TERRITORIAL DIVISION : SHILLONG.**

Name of District: East Khasi Hills

Name of C&RD Block: Laitkroh Khatarshnong.

No. of villages – 7 nos.

Project Area – 1000 Ha.

Sl. No	Activities	Sohkynduh 53%		Rymmai 13.8%		Dewiong/Saw 12%		Mawbawein 11.2%		Mawskhen 5.2%		Pdang 4.84%		Total	
		Phy	Fin	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	15	16
I	WATERSHED WORKS PHASE :													-	-
A.	Arable Land Treatment:													-	-
i.	Loose boulder Contour Bunds @ Rs. 7500/ ha for 200 ha	111 ha	8.325	29 ha	2.175	25 ha	1.875	23 ha	1.725	11 ha	0.825	10.34. ha	0.7755	209.34 ha	15.70
iii.	Agro-Horticulture Devt. Rs. 8600/ ha for 200 ha	106 ha	9.116	28 ha	2.408	24 ha	2.064	22 ha	1.892	10 ha	0.860	10 ha	0.860	200 ha	17.20
B.	Non- Arable Land Treatment:														
i.	Agro-Forestry Devt. works @ Rs. 10,100/ ha for 100 ha	53 ha	5.353	14 ha	1.414	12 ha	1.212	11 ha	1.111	5 ha	0.505	5 ha	0.505	100 ha	10.1
ii	Improvement of existing Degraded Forest @ Rs. 3600/ ha for 100 ha	53 ha	1.908	14 ha	0.504	12 ha	0.432	11 ha	0.396	5 ha	0.180	5 ha	0.180	100 ha	3.6
iii.	Coffee Devt. works for 50 ha @ Rs. 10,000/ ha	26 ha	2.600	7 ha	0.70	6 ha	0.60	5 ha	0.50	3 ha	0.300	3 ha	0.300	50 ha	5.0
C	Drainage Line Treatment:														
i.	Water Harvesting Structures @ 1,50,000 – 80.66 ha	2 nos	3.0	1 no	1.50	-	-	1 no	1.50	-	-	1 no	1.50	5 Nos.	7.50
ii.	Water Distribution Works @ 70,000 – 260 ha	10 nos	7.0	2 nos	1.40	2 nos	1.40	2 nos	1.40	2 no	1.40	1 nos	0.70	19 Nos.	13.30
iii.	Footbridges	-		1 no	1.30	-	-	1 no	1.30	-	-	-	-	2 Nos.	2.60
	Total of I:		37.30		11.40		7.58		9.82		4.07		4.82	50%	75.00

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
II.	Livelihood Activities for landless persons:														
i.	Tailoring @ Rs. 8,000/-	5 units	0.40	1 unit	0.08	1 unit	0.08	1 unit	0.08	1 unit	0.08	1 unit	0.08	10 units	0.80
ii.	Carpentry/ Agri- Implements/ Basket Making etc @ Rs. 5000/-	58 units	2.90	15 units	0.75	13 units	0.65	12 units	0.60	6 units	0.30	6 units	0.30	110 units	5.50
iii.	Hollow Block making/ Stabilized Mud block making Rs. 20,000/-	1 unit	0.20	1 unit	0.20	1 unit	0.20	1 unit	0.20	1 unit	0.20	1 unit	0.20	6 units	1.20
iv.	Vermi-Composting @ Rs. 25,000/-	1 unit	0.25	1 unit	0.25	1 unit	0.25	1 unit	0.25	1 unit	0.25	1 unit	0.25	6 units	1.50
v.	Kitchen Gardening @ Rs. 2500/-	127 units	3.175	33 units	0.825	29 units	0.725	27 units	0.675	12 units	0.30	12 units	0.30	240 units	15.0
	Total of II.:		6.93		2.11		1.91		1.81		1.13		1.13	10 %	15.0
III.	Production System and Micro Enterprises (SHG's):														
i.	Betel nut soaking Tank @ Rs. 1,00,000/-	3 units	3.0	2 units	2.0	-	-	1 unit	1.0	1 units	1.0	-	-	7 units	7.00
ii	Fruit Processing unit @ Rs. 40,000/ unit	1 unit	0.40	1 unit	0.40	1 unit	0.40	-	-	-	-	-	-	3 unit	1.20
iii	Rural godown/ cold storage	1 unit	2.0	-	-	-	-	-	-	-	-	-	-	1 unit	2.00
iv	Cableway taxing @ Rs. 3,00,000/ unit	-	-	-	-	1 unit	3.00	-	-	-	-	-	-	1 unit	3.00
v	Apiculture @ Rs. 1000/ unit	132 units	1.32	34 units	0.34	30 units	0.30	28 units	0.28	13 units	0.13	13 units	0.13	250 units	2.50
vi	Piggery @ 20,000/ unit	1 unit	0.20	1 unit	0.20	1 unit	0.20	1 unit	0.20	1 unit	0.20	1 unit	0.20	6 units	1.20
vii	Poultry @ Rs. 20,000/ unit	1 unit	0.20	1 unit	0.20	1 unit	0.20	1 unit	0.20	1 unit	0.20	1 unit	0.20	6 units	1.20
viii	Canes & Handicrafts @ Rs. 20,000/ unit	2 units	0.40	1 unit	0.20	1 unit	0.20	1 unit	0.20	1 unit	0.20	1 unit	0.20	7 units	1.40
	Total of III:		7.52		3.34		4.30		1.88		1.73		0.73	13 %	19.50
	Grand Total		51.75		16.85		13.79		13.51		6.93		6.68	73 %	109.50

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

1	2	3	4	5	6		7	8	9	10				11				
S L N o	Name of State	Name of Districts	Names of Projects	Year of sanction	Project duration (dd/mm/yyyy)		Area of the projects	Project cost (Rs. In lakh)	Names of Micro watersheds & Code nos. (as per DoLR's unique codification)	Area (ha) of the projects				Area details (ha) (falling within the projects)				
					From	To												
										Cultivated rainfed area	Cultivated irrigated area	Uncultivated wasteland		Pvt. Agri. Land	Forest land	Community land	Others (pl. specify)	Total area (ha)
												a) Temporary fallow	b) Permanent					
1	Meghalaya	East Khasi Hills	East Khasi Hills – IWMP III	2009-10	2009-10	2013-14	1000 Ha	150 Lakhs	Wah Sohra (Lower Reaches) – 3C1B5g2a	885.8 Ha	Nil	778	46.40	885.8	778	46.4	59.8	1770 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 III	135 lakhs	15 lakhs	NREGS	28.99	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	178.99

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

1	2	3	4	5				6				
Sl. No.	Names of States	Name of Districts	Names of Projects	Distt. Agency's Project Account details				Watershed Committee (WC) account details:				
				Name of the Bank and Branch where project account has been opened	Account Number (to be obtained confidentially)	Account type (Savings/ Current/ Others)	Name & Designation of authorized persons who operate the account.	Name of Watershed Committee	Name of the Bank and Branch where project account has been opened	Account number (to be obtained confidentially)	Account type (Savings/ current others)	Name & Designation of authorized persons who operate the account.
1	Meghalaya	East Khasi Hills	East Khasi Hills – IWMP III	State Bank of India, Polo Branch	30984185205	Saving	Shri G. Kharmujai, DS&WCO	Lower Wah Sohra, Watershed Committee	SBI, Laitryngew	31094085021	Saving	Chairman W.C, Secretary W.C, Project Leader / WDT

Details of Convergence of IWMP with other Schemes:

	1	2	3	4	5	6	7
Sl. No.	District	Names of projects	Names of Departments with Schemes converging with IWMP	Fund made available to IWMP due to convergence (Rs. in lakh)	Name of activity/task/structure undertaken with converged funds	Reference no. of activity/ task/ structure in DPR [@]	Level at which decision for convergence was taken ^{\$}
					(a) Structures (b) livelihoods (c) Any other (pl. specify) [#]		
1	East Khasi Hills	East Khasi Hills – IWMP III	* Community Rural Development Department NREGS	28.99	Construction of footpath	-	Block Level & District Level
2			* PHE Department TSC	n.a	Construction of Low cost sanitary unit	-	

Note:

- | | | | |
|-----------------------|----------------|----------------|---------------------------|
| (i) Sohkynduh: | Wages – 11.20; | Labour – 7.46; | Construction of Footpath. |
| (ii) Mawbawein | Wages – 1.80; | Labour – 1.20; | Construction of Footpath. |
| (iii) Rymmai-Mawskhen | Wages – 4.40; | Labour – 2.93; | Construction of Footpath. |

J. LYNDOH, IAS,
Deputy Commissioner
&
District Magistrate,
East Khasi Hills District Shillong



Office - 2224003
PABX - 2210
FAX - 2223394
Resid - 2521561

D. O. No. _____

Date _____

Certificate for Convergence of Centrally Sponsored Schemes

TO WHOM IT MAY CONCERN

This is to certify that centrally sponsored schemes like NREGS, BRGF, RKVY, NRHS and Total sanitation campaign etc can be converged with Watershed Projects/Programmes within East Khasi Hills District.

Dated Shillong,
The 22nd September, 2009.

(J. Lyndoh,)
Deputy Commissioner,
East Khasi Hills District,
Shillong.



Public-Private Partnership in the IWMP projects: NIL

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

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

CHAPTER VI

CAPACITY BUILDING

CHAPTER VI CAPACITY BUILDING

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

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

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

- From Column no. 2, total no. of States implementing the programme, from Column no. 3, no. of training institutes, from column No. 9, total no. of category-wise trainings and trainees may be given at the end of the table for the entire country

- # Central govt. Dept./ State govt. Dept./ Autonomous Body/ Research Institutes/ Universities/ Others (pl. specify)

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

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

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

Table 6.2: Capacity Building activities for the year 2009 – 10 as on 31/03/2010 (dd/mm/yyyy)*

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

Table 6.3: Information, Education & Communication (IEC) activities for the year 09-10 as on 31/03/10 (dd/mm/yyyy)*

	1	2	3	4	5
	Activity	Executing agency	Estimated expenditure (Rs.)	Expenditure incurred (Rs.)	Outcome (may quantity, wherever possible)
1.	Awareness	S&WC (T) Division	0.50	0.50	
2.	PRA Exercises	S&WC (T) Division	0.50	0.50	
3.	Exposure Visits	S&WC (T) Division	0.30	0.30	
4.	Capacity Building	S&WC (T) Division	2.20	2.20	

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.	Rymmai		100 %	7500	7000	14500		100 %	91	71	162		100 %	8	4	12
2.	Mawskhen		100 %	7800	6200	14000		100 %	82	76	158		100 %	6	2	8
3.	Mawbaweñ		100 %	7000	6500	13500		100 %	80	58	138		100 %	5	3	8
4.	Pdang		100 %	4800	4700	9500		100 %	27	34	61		100 %	4	1	5
5.	Dewiong		100 %	5500	5000	10500		100 %	55	45	100		100 %	5	2	7
6.	Dewsaw		100 %	3300	3200	6500		100 %	12	16	28		100 %	4	-	4
7.	Sohkynduh		100 %	9300	8700	18000		100 %	254	270	524		100 %	15	9	24
						86500					1171					68

Table 7.2 Migration Details:

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

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

Table 7.3 Economic benefits accrued to women:

1		2		3		4
Wages		Training		Livelihoods		Total (Rs. in lakh)
Woman days	Amount (Rs. in lakh)	No. of women participants	Amount (Rs. in lakh)	No. of women beneficiaries	Value of assistance provided (Rs. in lakh)	
41300	41.30	350	0.60	60 nos.	6.0	6.60

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

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

1	2	3	4	5	6	7				8
Names of the Districts	Names of the projects	Names of the villages	Particular of CPR	Nature of right	Period of right	Beneficiary details (no. of families)				User Charges (Rs.)
						SC	St	Others	Total	
East Khasi Hills District	EKH-IWMP-III	Sohkynduh	Community Forest	Fw	6 months	-	524	-	524	Nil
		Mawkhen	Community Forest	Fw	6 months	-	50	-	50	Nil
		Rymmai	Community Forest	Fw	6 months	-	149	-	149	Nil
		Mawbaweiñ	Community Forest	Fw	6 months	-	140	-	140	Nil
		Pdang	Community Forest	Fw	6 months	-	62	-	62	Nil
		Dewiong-Dewsaw	Community Forest	Fw	6 months	-	131	-	131	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 III	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 III	Insufficient	Sufficient	10 – 12 months	Moderate	Improved	Improved	-

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

Table 7.5.3 Water Use efficiency:

1	2	3	4			
District	Name of the project	Name of major crop	Water savings in cu.m.			
			through water saving devices ^{\$}	through water conserving agronomic practices [#]	Any other (pl specify)	Total
East Khasi Hills District	EKH-IWMP III	Betel leaf	PVC pipes	Vermi-compost, mulching	-	-
		Black Pepper				

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

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

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

Table 7.6: Vegetation/ crop related outcomes:

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

1	2	3	4						5						6					
Names of the Districts	Name of Projects	Name of crops	Pre-project						Mid-term						Post-project					
			Area (ha)		Average Yield (Qtl) per ha.		Total Production (Qtl)		Area (ha)		Average Yield per ha (Qtl)		Total Production (Qtl)		Area (ha)		Average Yield per ha (Qtl)		Total Production (Qtl)	
			Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.
East Khasi Hills District	EKH-IWMP III	Potato	-	400	-	20	-	8000	100	400	22	22	2200	8800	200	400	25	25	5000	10000
		Millet	-	125	-	10	-	1250	50	125	12	12	600	1500	125	125	15	15	1875	1875
		Soyabean	-	100	-	15	-	1500	100	100	17	17	1700	1700	200	100	18	18	3600	1800
		Yam	-	250	-	18	-	4500	25	250	19	19	475	4750	50	250	20	20	1000	5000
		Ginger	-	250	-	20	-	5000	25	250	21	21	525	5250	50	250	22	22	1100	5500
		Tapioca	-	250	-	20	-	5000	25	250	25	25	625	6250	50	250	30	30	1500	7500
		Betel nut	-	350	-	15	-	5250	25	350	17	17	425	5950	50	350	20	20	1000	7000
		Betel leaf	-	350	-	25	-	8750	25	350	27	27	675	9450	50	350	35	35	1750	12250
		Black Pepper	-	50	-	6	-	250	50	50	60	60	300	300	50	50	75	75	1125	375
		Oranges	-	200	-	60	-	12000	100	200	65	65	6500	13000	200	200	75	75	15000	15000

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

Irri. – Irrigated Rf – Rainfed

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

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 III	Betel leaf	-	-	-	-	-	-	120	-	28	-	3360	-	150	-	30	-	4500	-
				Black Pepper	-	-	-	-	-	-	60	-	65	-	340	-	100	-	8	-	800	-
			Total for the District																			

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

Irri. – Irrigated Rf – Rainfed

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

1	2	3	4	5	6						7						8					
Sl No.	Names of States	Names of the Districts	Name of Projects	Name of crops	Pre-project						Mid-term						Post-project					
					Area (ha)		Average Yield (Qtl) per ha.		Total Production (Qtl)		Area (ha)		Average Yield per ha (Qtl)		Total Production (Qtl)		Area (ha)		Average Yield per ha (Qtl)		Total Production (Qtl)	
					Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.
	Meghalaya	East Khasi Hills District	EKH-IWMP III	Betel leaf	-	-	-	-	-	-	60 Ha	-	27	-	1620	-	120	-	29	-	3480	-
			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 III	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 III	5 yrs	Statistical Report, Meghalaya	2006 - 07	255 Ha	150 Ha	150 Ha	150 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 III	5 yrs				200 Ha	200 Ha	200 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 III	5 yrs				100 Ha	100 Ha	100 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 7.7 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 Names of the Districts	2 Name of Projects	3 Type of Animal	4 Pre-project			5 Mid-term			6 Post-project			7 Remarks
			No.	Yield	Income	No.	Yield	Income	No.	Yield	Income	
East Khasi Hills District	EKH-IWMP III	Milch- animals	nil	nil	nil	nil	nil	nil	nil	nil	nil	
		Piggery	55	-	3.3	125	-	8.75	250	-	20.00	
		Poultry	1100	-	3.85	1500	-	5.25	2500	-	10.00	
		Apiculture in unit	100	-	0.40	300	-	2.40	1000	-	10.00	
	Total for all projects		1255	-	7.55	1925	-	16.40	3750	-	40.00	
Total for all Districts												

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

Table 7.7.2 Details of other livelihoods created for landless people:

1	2	3	4	5				6	7					8				
District	Project	Name of activity	Fund required for the activity (Rs.)	Sources of funding (Rs.)				Actual Expenditure incurred on activity (Rs.)	No. of beneficiaries trained					No. of beneficiaries taking up activity				
				Project Fund	Beneficiary	Others (pl. specify)	Total		SC	ST	Others	Women	Total	SC	ST	Others	Women	Total
East Khasi Hills District	EK H-IW MP III	Tailoring	10000/-	8000/-	2000/-	-	10000/-	10000/-	-	10	-	10	10	-	10	-	10	10
		Basket - making	8000/-	5000/-	3000/-	-	8000/-	8000/-	-	110	50	60	110	-	110	50	60	110
		Stabilized Mud - making	35000/-	20000/-	15000/-	-	35000/-	35000/-	-	6	6	-	6	-	6	6	-	6
		Vermi - composting	30000/-	25000/-	5000/-	-	30000/-	30000/-	-	6	-	6	6	-	6	-	6	6
		Kitchen - gardening	5000/-	2500/-	2500/-	-	5000/-	5000/-	-	240	100	140	240	-	240	100	140	240

(Contd.)

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

Table 7.7.3 Details of other livelihoods created for landless people:

9		10	11				12
No. of persons employed indirectly in the activity		Annual increase in income due to activity (Rs.)	Impact of livelihoods programme				Any other information (pl. Specify)
			Migration (No. of beneficiaries)		Development of backward-forward linkages		
Total	Grand Total (8+9)		Pre-project	Post-project	Pre-project	Post-project	
(i) 5	13	30,000	-	-	-	25	-
(ii) 50	160	50,000	-	-	-	-	-
(iii) 10	16	45,000	-	-	-	-	-
(iv) 10	16	25,000	-	-	-	-	-
(v) 60	300	20,000	-	-	-	-	-

Table 7.7.4 Details of other livelihoods created for farmers:

1	2	3	4	5				6	7				8			
District	Project	Name of activity	Fund required for the activity (Rs.) in lakhs	Sources of funding (Rs.) in Lakhs				Actual Expenditure incurred on activity (Rs.)	No. of farmers trained				No. of farmers taking up activity			
				Project Fund	Benefi-ciary	Others (pl. specify)	Total		SF	MF	LF	Total	SF	MF	LF	Total
East Khasi Hills District	EKH-IWMP III	i) Betelnut soaking	1.50	1.0	0.50	-	1.50	1.50	-	-	-	7	-	-	-	7
		ii) Fruit processing	1.0	0.8	0.20	-	1.00	1.00	-	-	-	3	-	-	-	3
		iii) Rural Godown	2.5	2.0	0.50	-	2.50	2.50	-	-	-	15	-	-	-	15
		iv) Ropeway	4.0	3.0	1.00	-	4.00	4.00	-	-	-	15	-	-	-	15

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

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

9		10	11				12
No. of persons employed indirectly in the activity		Annual increase in income due to activity (Rs.)	Impact of livelihoods programme				Any other information (pl. Specify)
			Migration (No. of beneficiaries)		Development of backward-forward linkages		
Total	Grand Total (8+9)		Pre-project	Post-project	Pre-project	Post-project	
(i) 203	210	50,000	-	-	-	200	-
(ii) 147	150	40,000	-	-	-	-	-
(iii) 200	215	25,000	-	-	-	-	-
(iv) 200	215	60,000	-	-	-	-	-

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 III	(A) Backward linkages			
		(i) Seed certification	-	-	-
		(ii) Seed supply system	-	-	-
		(iii) Fertilizer supply system	-	-	-
		(iv) Pesticide supply system	-	-	-
		(v) Credit institutions	-	4	10
		(vi) Water supply	-	-	2
		(vii) Extension services	-	20	30
		(viii) Nurseries	-	-	1 no.
		(ix) Tools/machinery suppliers	-	2	2
		(x) Price Support system	-	-	-
		(xi) Labour	-	4000	6000
		(xii) Any other (please specify)	-	-	-
		(A) Forward linkages		-	-
		(i) Harvesting/threshing machinery	-	-	-
		(ii) Storage (including cold storage)	-	1 no.	1 no.
		(iii) Road network	-	-	-
		(iv) Transport facilities	-	2 nos.	2 nos.
		(v) Markets / Mandis	-	1 no.	1 no.
		(vi) Agro and other Industries	-	120 nos.	150 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		Very poor - poor	Good	
		Ground water structures repaired/ rejuvenated		-	6 nos.	
		Quality of drinking water		Moderate potable	Improved	
		Availability of drinking water		Insufficient	Sufficient	
		Increase in irrigation potential		-	18 nos.	
		Change in cropping/ land use pattern		-	-	
		Area under agricultural crop				
		i Area under single crop		-	-	
		ii Area under double crop		400 ha	600 ha	
		iii Area under multiple crop		250 ha	400 ha	
		Net increase in crop production area				
		Increase in area under vegetation		-	150 ha	
		Increase in area under horticulture		-	200 ha	
		Increase in area under fuel & fodder		-	100 ha	
		Increase in milk production		-	-	
		No. of SHGs		2 nos.	10 nos.	
		Increase in no. of livelihoods		-	12 nos.	
		Increase in income		-	45,000	
		Migration		-	-	
		No. of school going children		120 nos.	350 nos.	
		SHG Federations formed		-	-	
		Credit linkage with banks		-	15 nos.	
		Resource use agreements		-	7 nos.	
		WDF collection & management		-	1 no.	
		Summary of lessons learnt	May be attached as a separate file			

Table 7.10 Cost effectiveness of structures/ activities*

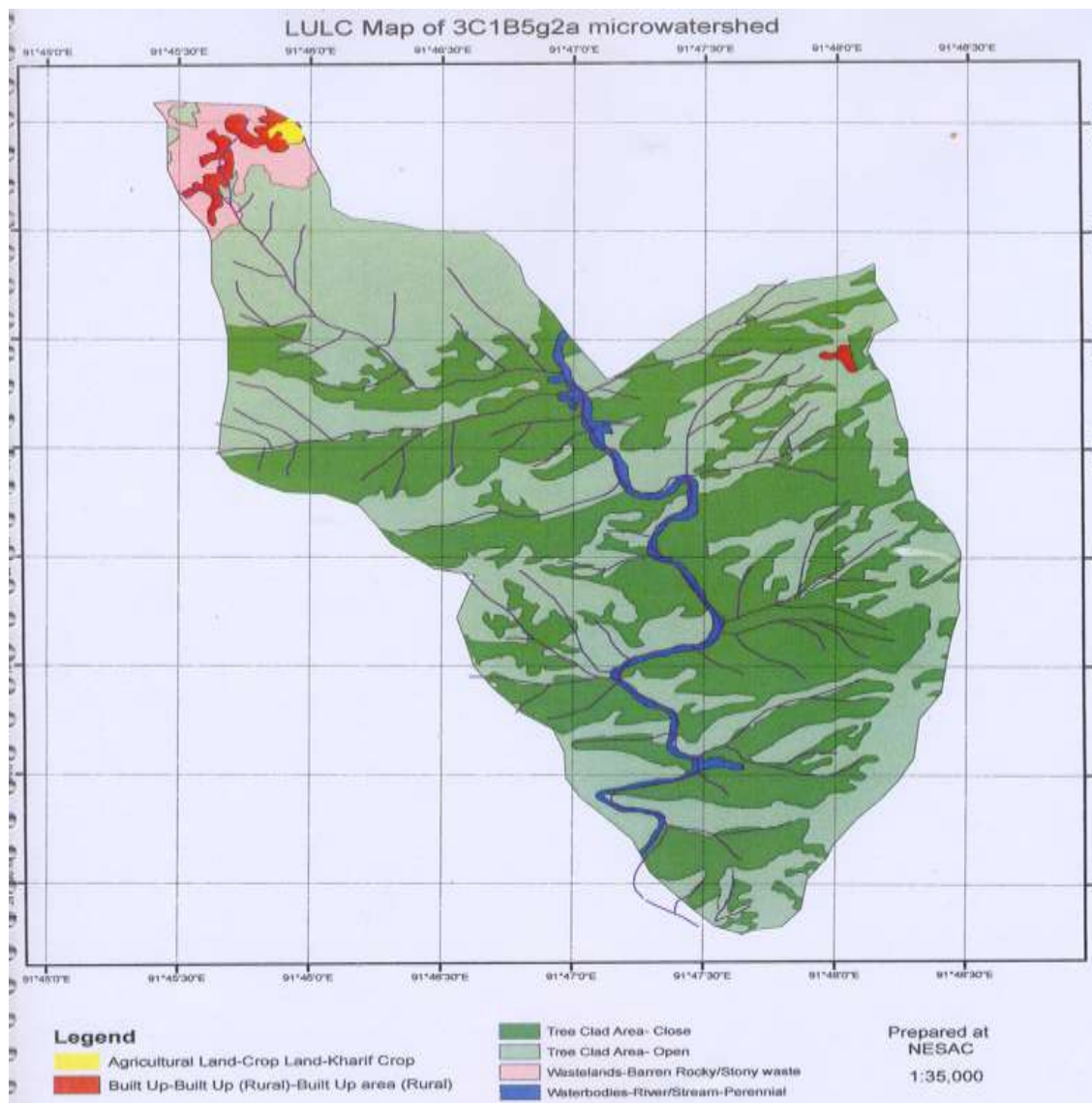
1	2	3	4	5	6	7	8	9	10
District	Name of project	Name of WC	Name of structure/ activity	Estimated cost (Rs.)	Expected quantifiable benefits (Rs.)	Expenditure incurred (Rs.)	Actual quantifiable benefit (Rs.)	Benefit: Cost ratio [#]	IRR
East Khasi Hills District	EKH-IWMP III	Lower Wah Sohra	As per Treatment Plan	117.0 lakhs	175.50 lakhs	117.0 lakhs	146.25 lakhs	1.25	1.4

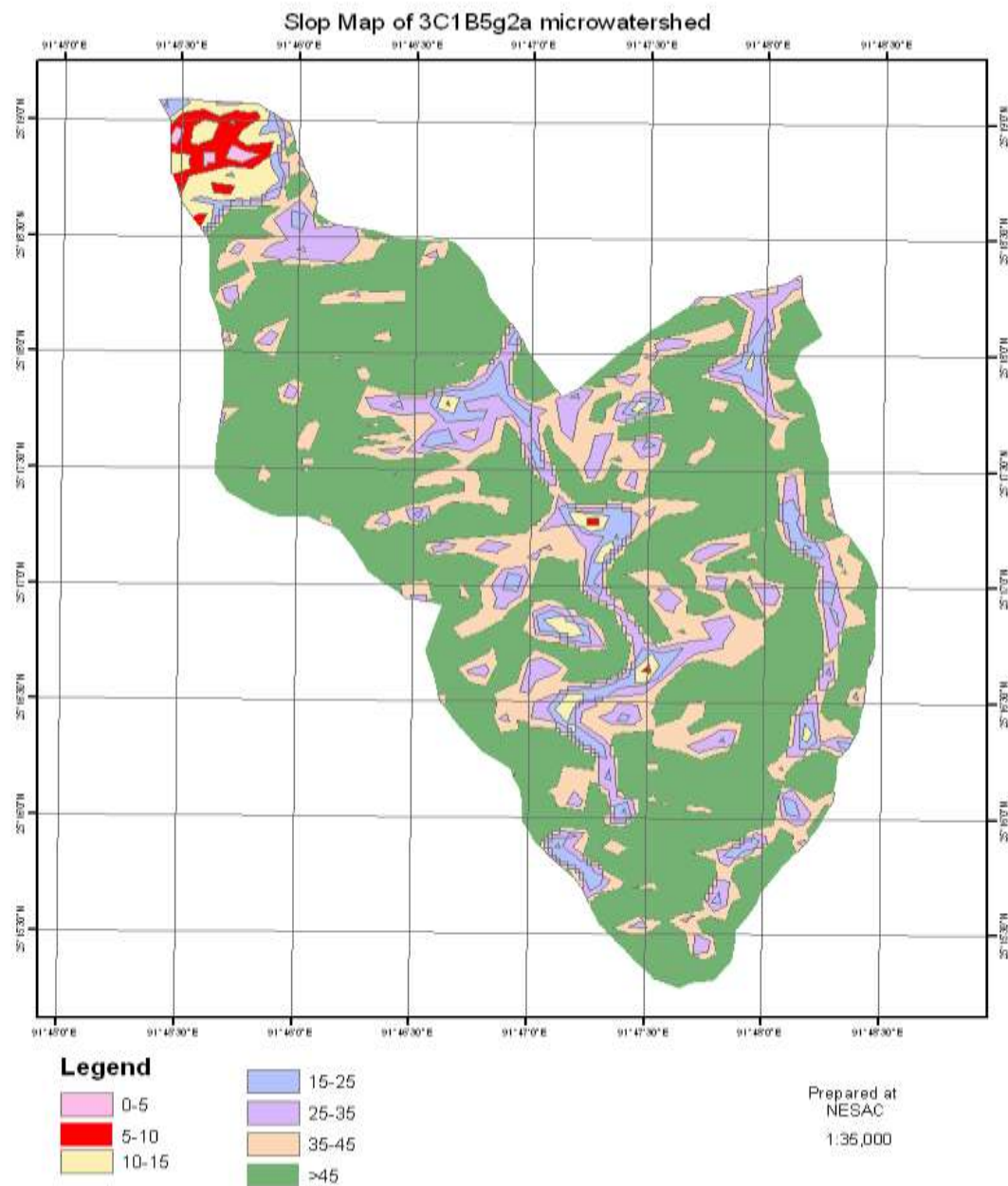
* from column no. 2, total no. of States implementing the programme, from column no. 3, total no. of Districts; from Column no. 4, no. of projects, from column no. 5, no. of WCs, from column no. 6, no. of structures/ activities, from column no. 7 to 10, category-wise# totals, may be mentioned at the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

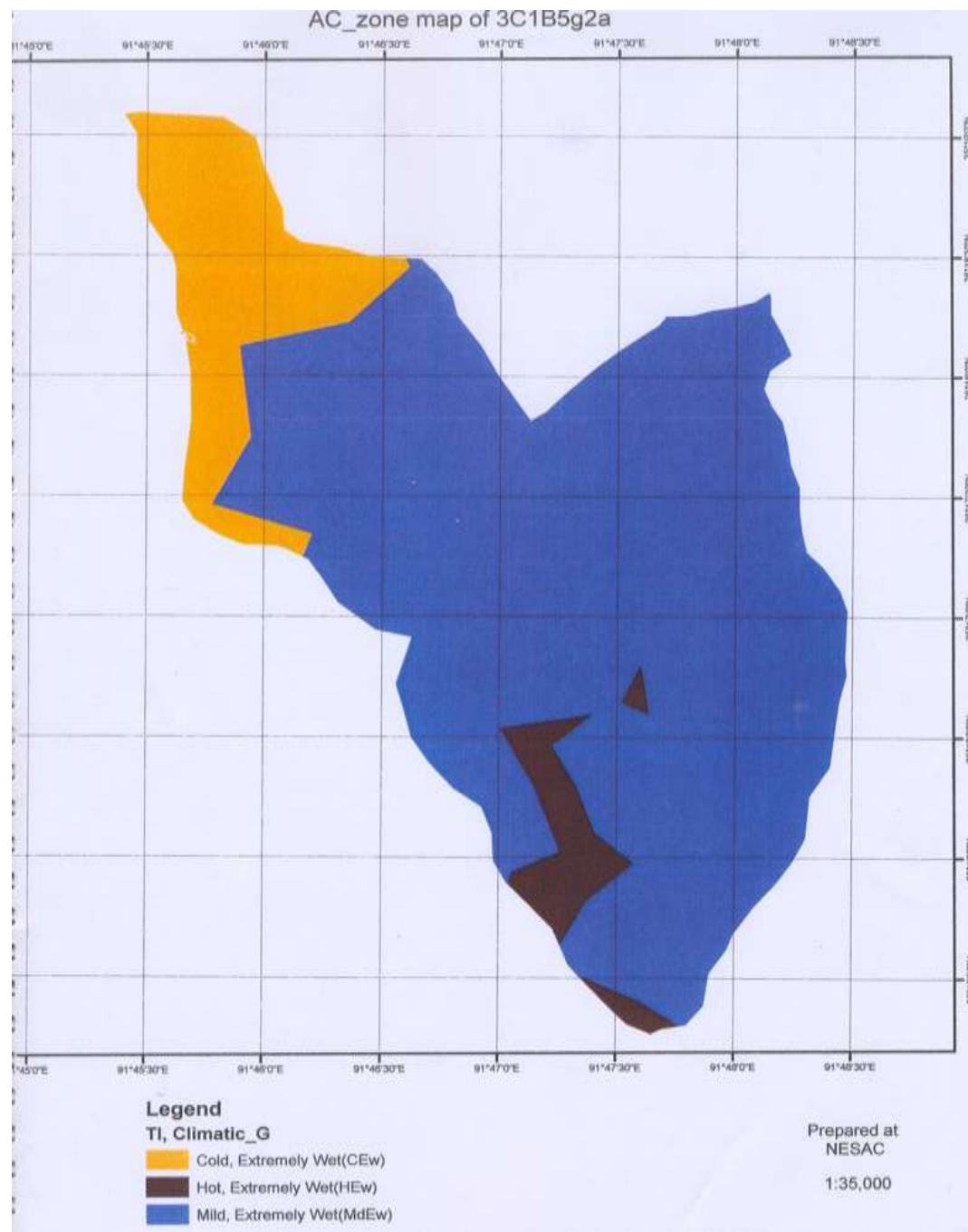
[#] B:C ratio more than 1 – cost effective
less than 1 – Not cost effective

ANNEXURE I

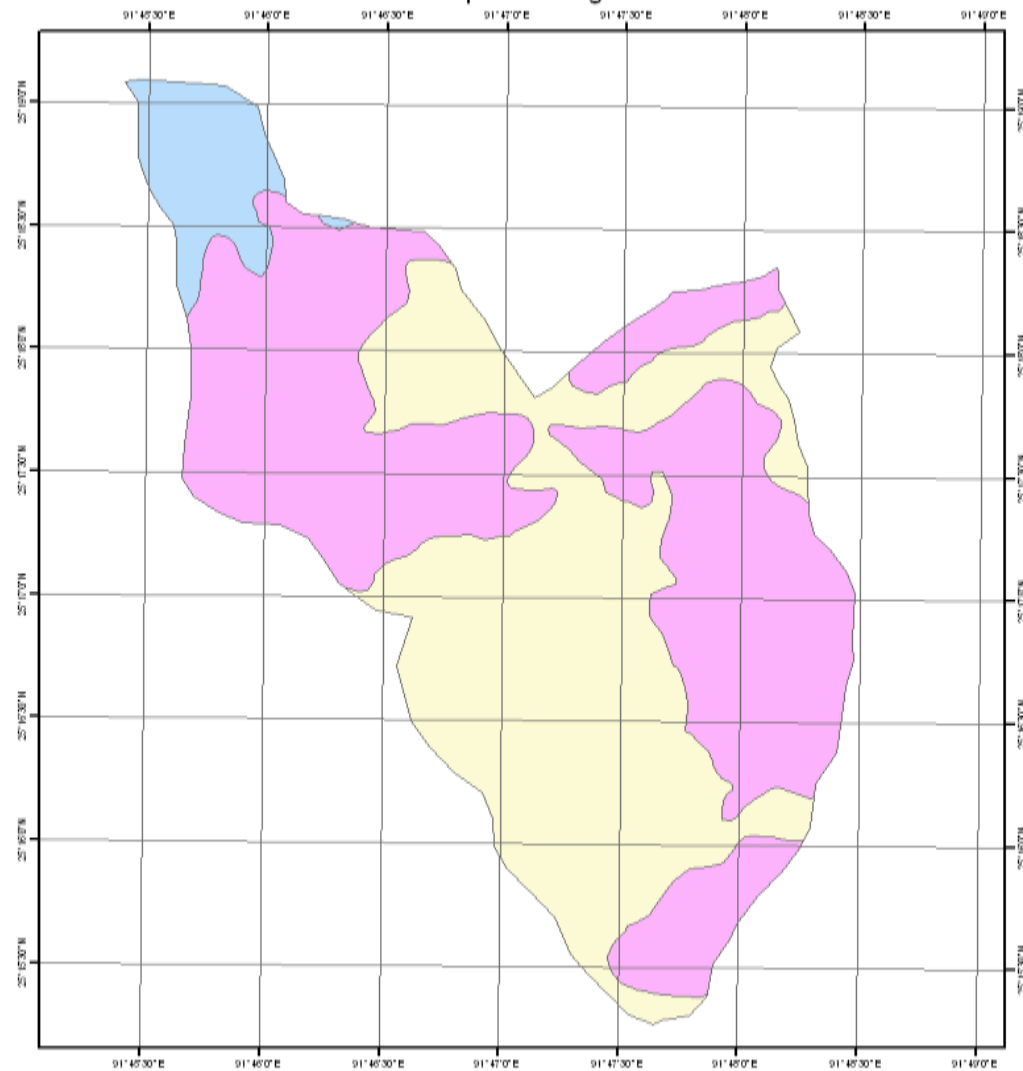
MAPS







Soil Map of 3C1B5g2a



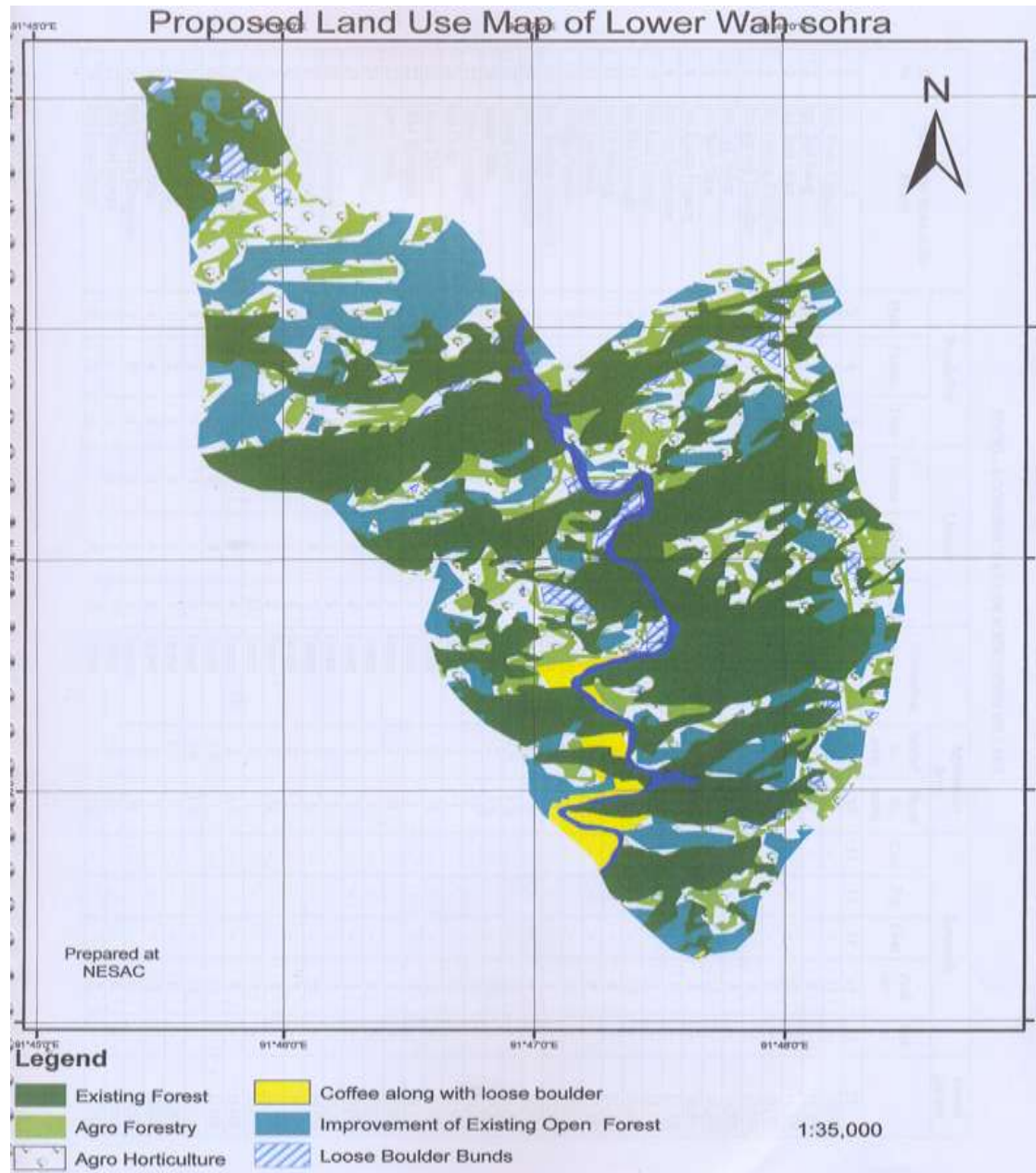
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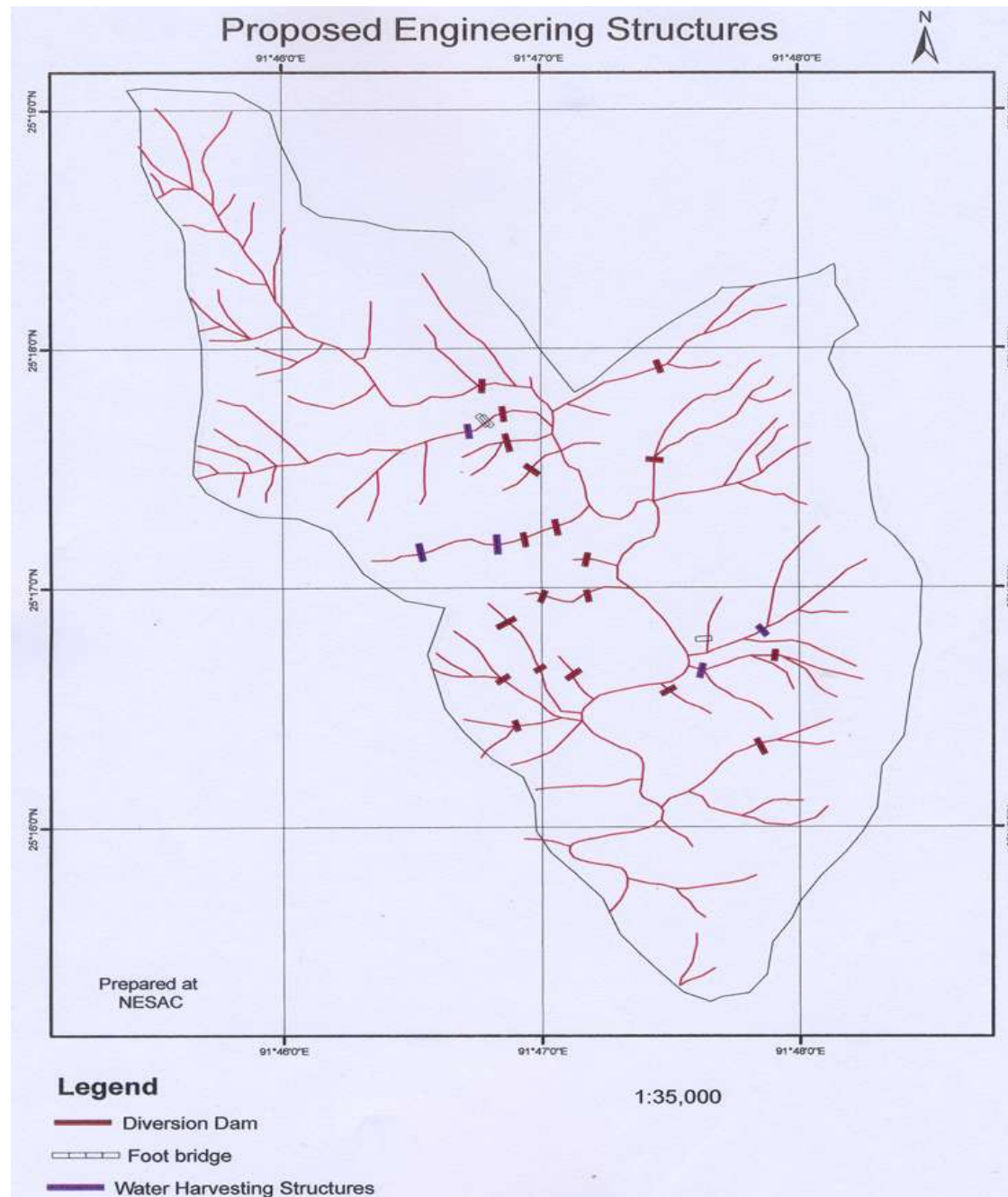
TEXTURE, DEPTH, SERIES

- Sandy clay loam, >100 cm, NONGPLIT KANAUR
- Sandy clay loam, >100 cm, WAHKDIAT
- Sandy loam, 10-25, CHERRAPUNJEE

Prepared at
NESAC
1:35,000







ANNEXURE II

SOCIO-ECONOMIC SURVEY DETAILS

SOCIO – ECONOMIC DATA OF SOHKYNDUH VILLAGE

Sl. No.	Name of the Head of the Family	Population			Literacy			Occupation	Agriculture Area		Livestock					Annual Income
		Male	Female	Total	Literate	Illiterate	Total		Settled (in acre)	Jhum (in acre)	Cow	Pig	Goat	Poultry	Horse	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	Smt. Violet Khonglam	4	3	7	4	3	7	Farmer	2	1	-	-	-	15	-	18,000
2	Smt. Sied Ksing	0	3	3	0	3	3	Farmer	½	½	-	-	-	0	-	15,000
3	Smt. Trait Dkhar	2	4	6	2	4	6	Farmer	½	½	-	-	-	0	-	16,000
4	Shri Morning Khonglam	2	4	6	3	3	6	Farmer	-	-	-	-	-	0	-	18,000
5	Shri Starwell Khonglam	1	0	1	1	0	1	Farmer	1	½	-	-	-	0	-	12,000
6	Smt. Tuk Dkhar	4	3	7	2	5	7	Farmer	3	2	-	-	-	8	-	21,500
7	Shri Shroi Tham	2	3	5	4	1	5	Farmer	4	2	-	-	-	15	-	19,000
8	Shri Kpham Pohnang	2	1	3	1	2	3	Farmer	1	1	-	-	-	4	-	16,500
9	Shri Ping Khongsdier	5	2	7	3	4	7	Farmer	1 ½	1	-	-	-	6	-	21,000
10	Shri local Khongsit	3	3	6	2	4	6	Farmer	1 ½	1	-	-	-	2	-	18,500
11	Smt Bisi Khongsdir	4	5	9	4	5	9	Farmer	5	3	-	-	-	10	-	26,000
12	Shri On Shabong	1	0	1	1	0	1	Farmer	2	1	-	-	-	0	-	14,000
13	Shri Kroi Shrieh	2	1	3	1	2	3	Farmer	1 ½	1 ½	-	-	-	8	-	17,500
14	Shri Stai Pararian	4	1	5	0	5	5	Farmer	2	1	-	-	-	4	-	18,000
15	Smt. Similian Khongsdier	3	3	6	2	4	6	Farmer	2	1	-	-	-	2	-	19,500
16	Smt. Civil Khongsdier	2	2	4	0	4	4	Farmer	½	½	-	-	-	4	-	12,000
17	Thomal Dkhar	3	2	5	2	3	5	Farmer	2 ½	1 ½	-	-	-	6	-	21,500
18	Shaina Dkhar	0	4	4	1	3	4	Farmer	2	1 ½	-	-	-	10	-	15,500
19	Brilian Khongsdir	1	1	2	2	0	2	Farmer	5	2	-	-	-	6	-	10,000
20	Rita Dkahr	4	2	6	3	3	6	Farmer	2	1	-	-	-	4	-	19,000
21	Dondur Dkhar	0	1	1	0	1	1	Farmer	½	½	-	-	-	2	-	5,000
22	Dhiat Khongshei	1	4	5	4	1	5	Farmer	2	1	-	-	-	5	-	18,500
23	Merial Shrieh	2	4	6	3	3	6	Farmer	2	½	-	-	-	3	-	19,000
24	Medin Pararian	3	3	6	2	4	6	Farmer	3	1	-	-	-	4	-	18,000
25	Krui Shrieh	2	2	4	1	3	4	Farmer	2	1	-	-	-	5	-	15,000
26	Mening Khonglam	3	5	8	3	5	8	Farmer	6	2	-	-	-	4	-	20,000
27	Balansi Khongsdier	4	3	7	3	4	7	Farmer	2	1	-	-	-	10	-	19,500
28	Kwian Dkhar	3	3	6	1	5	6	Farmer	2	1	-	-	-	5	-	19,000
29	Norai Dkhar	1	1	2	0	2	2	Farmer	2	½	-	-	-	4	-	12,000
30	Mythian Khongshei	5	5	10	1	9	10	Farmer	2	1	-	-	-	5	-	10,000
31	Smt. Almora Shrieh	2	2	4	1	3	4	Farmer	3	1 ½	-	-	-	8	-	16,000
32	Smt. Sianti Mawpat	5	3	8	0	8	8	Farmer	1 ½	1	-	-	-	11	-	24,000
33	Smt. Drimlet Khonglam	4	3	7	3	4	7	Farmer	2 ½	1 ½	-	-	-	14	-	20,000

34	Shri It Khongshei	1	2	3	1	2	3	Farmer	1 ½	1	-	-	-	6	-	18,000
35	Smt. Blied Dkhar	4	4	8	4	4	8	Farmer	2	1	-	-	-	12	-	26,000
36	Shri Mythen Khongsdier	1	0	1	0	1	1	Farmer	½	½	-	-	-	0	-	4,500
37	Shri Shuid Mawpat	1	0	1	0	1	1	Farmer	2	1	-	-	-	0	-	14,000
38	Shri Joman Shrieh	4	2	6	2	4	6	Farmer	1	½	-	-	-	2	-	16,500
39	Shri Kdit Pohneng	3	3	6	2	4	6	Farmer	3	1 ½	-	-	-	12	-	21,500
40	Smt Kordalin Shrieh	1	1	2	1	1	2	Farmer	1 ½	1	-	-	-	4	-	9,000
41	Smt. Plian Shrieh	3	2	5	1	4	5	Farmer	2	1	-	-	-	10	-	18,000
42	Smt. Shoresibon Ksing	3	2	5	3	2	5	Farmer	1	½	-	-	-	4	-	17,500
43	Smt. Kjai Ksing	1	1	2	0	2	2	Farmer	2	1	-	-	-	12	-	15,000
44	Smt. Dwink Dkhar	5	3	8	2	6	8	Farmer	3	2	-	-	-	8	-	26,200
45	Shri Borming Dkhar	1	1	2	1	1	2	Farmer	1	½	-	-	-	0	-	9,500
46	Smt. Swun Pohneng	2	3	5	1	4	5	Farmer	1	½	-	-	-	6	-	12,800
47	Smt. Dkiar Pohneng	0	2	2	0	2	2	Farmer	2	1	-	-	-	3	-	6,000
48	Smt. Prina Pohneng	6	3	9	2	7	9	Farmer	3	1 ½	-	-	-	8	-	26,500
49	Smt. Sbunlang Pohneng	4	2	6	2	4	6	Farmer	1	½	-	-	-	4	-	12,000
50	Shri Thiem Pohneng	3	4	7	3	4	7	Farmer	5	2	-	-	-	11	-	34,000
51	Shri Kyrdan Pohneng	3	2	5	0	5	5	Farmer	2	1	-	-	-	6	-	21,000
52	Shri Jlain Pararain	1	1	2	2	0	2	Farmer	1 ½	1	-	-	-	4	-	8,500
53	Smt Shngeil Pohneng	3	2	5	2	3	5	Farmer	3	1 ½	-	-	-	8	-	20,000
54	Smt. Shmir Dkhar	3	4	7	1	6	7	Farmer	2 ½	1 ½	-	-	-	9	-	27,500
55	Smt. Nylla Shrieh	4	4	8	1	7	8	Farmer	2 ½	1 ½	-	-	-	9	-	19,000
56	Shri Rimor Dkhar	3	4	7	1	6	7	Farmer	1	½	-	-	-	6	-	16,500
57	Smt. Bitingeit Khongsit	0	4	4	0	4	4	Farmer	1	½	-	-	-	12	-	16,500
58	Smt. Iak Dkhar	2	4	6	1	5	6	Farmer	½	½	-	-	-	13	-	17,400
59	Smt Tkiet Khonglam	0	1	1	0	1	1	Farmer	1	½	-	-	-	6	-	4,900
60	Smt. Thait Kraih	1	5	6	6	0	6	Farmer	3	2	-	-	-	8	-	70,000
61	Smt. Shan Khyriem	3	5	8	3	5	8	Farmer	1 ½	1	-	-	-	6	-	20,000
62	Shri Hamlet Pohneng	1	1	2	2	0	2	Farmer	2	1	-	-	-	11	-	8,500
63	Smt. Sher Khongriah	3	4	7	3	4	7	Farmer	8	5	-	-	-	6	-	39,000
64	Smt. Prister Shrieh	1	1	2	1	1	2	Farmer	3	1	-	-	-	4	-	26,000
65	Shri Brian Shrieh	7	3	10	3	7	10	Farmer	4	2	-	-	-	12	-	35,000
66	Smt. Prona Tham	3	3	6	0	6	6	Farmer	2	1	-	-	-	4	-	15,500
67	Smt. Liti Khongsit	4	3	7	1	6	7	Farmer	3	2	-	-	-	14	-	29,500
68	Shri Ior Shrieh	2	3	5	2	3	5	Farmer	2	1	-	-	-	8	-	24,000
69	Shri Ngin Mawpat	3	4	7	0	7	7	Farmer	1	1	-	-	-	11	-	18,000
70	Shri Jruin Khongsit	1	0	1	0	1	1	Farmer	3	2	-	-	-	4	-	16,500
71	Shri Bawa Shrieh	1	0	1	1	0	1	Farmer	1	½	-	-	-	9	-	8,500
72	Smt. Itina Khongsit	2	2	4	0	4	4	Farmer	3 ½	2	-	-	-	12	-	16,500
73	Shri Numtil Tham	2	5	7	1	6	7	Farmer	1	1	-	-	-	16	-	19,500

74	Smt. Thel Tham	8	4	12	2	10	12	Farmer	2	1	-	-	-	15	-	24,500
75	Smt Phlud Shrieh	1	1	2	0	2	2	Farmer	1	1	-	-	-	4	-	14,200
76	Smt Brina Khongsit	1	3	4	1	3	4	Farmer	2	1	-	-	-	6	-	17,500
77	Smt. Riolin Khongsit	2	3	5	0	5	5	Farmer	2	1 ½	-	-	-	4	-	16,500
78	Smt. Tilet Khonglam	0	1	1	1	0	1	Farmer	2	4	-	-	-	0	-	16,000
79	Shri Dellin Tham	6	2	8	1	7	8	Farmer	1	1	-	-	-	11	-	21,500
80	Shri Pai Riahtam	3	3	6	2	4	6	Farmer	2	1	-	-	-	16	-	36,500
81	Smt. Maldalin Tham	0	1	1	0	1	1	Farmer	1	1	-	-	-	0	-	7,000
82	Smt. Bat Kshiar	4	2	6	5	1	6	Farmer	5	3	-	-	-	14	-	39,800
83	Smt. Phira Dkhar	3	5	8	3	5	8	Farmer	2	2	-	-	-	8	-	24,300
84	Smt. Stok Dkhar	4	1	5	2	3	5	Farmer	2	1	-	-	-	6	-	19,400
85	Smt. Krial Shriew	0	2	2	0	2	2	Farmer	1	5	-	-	-	9	-	21,000
86	Smt Threm Shrieh	3	2	5	1	4	5	Farmer	½	1	-	-	-	3	-	17,500
87	Smt. Bian Khonglam	4	3	7	2	5	7	Farmer	1	2	-	-	-	8	-	21,000
88	Smt. Thriang Khongsit	3	3	6	0	6	6	Farmer	½	1	-	-	-	0	-	14,500
89	Smt. Khrik Khongsit	3	3	6	4	2	6	Farmer	2	1	-	-	-	9	-	24,200
90	Smt. Kursimerry Khongsit	3	1	4	0	4	4	Farmer	½	½	-	-	-	2	-	6,000
91	Smt. Balsi Shrieh	1	1	2	0	2	2	Farmer	½	½	-	-	-	8	-	5,600
92	Smt. Shira Khongsit	0	1	1	0	1	1	Farmer	2	1	-	-	-	6	-	9,800
93	Shri Ol Pohneng	1	0	1	0	1	1	Farmer	½	½	-	-	-	0	-	6,800
94	Shri Telsinang Khongsit	2	2	4	0	4	4	Farmer	1	1	-	-	-	4	-	13,500
95	Smt. Duri Khongsit	1	2	3	1	2	3	Farmer	3	1	-	-	-	12	-	19,500
96	Shri Pria Khongsit	4	3	7	2	5	7	Farmer	1	1	-	-	-	9	-	24,500
97	Smt. Bum Tham	1	3	4	1	3	4	Farmer	½	½	-	-	-	0	-	16,000
98	Shri Hud Shrieh	2	2	4	0	4	4	Farmer	½	½	-	-	-	6	-	9,000
99	Smt. Pherbon Shrieh	1	5	6	1	5	6	Farmer	1	1	-	-	-	18	-	17,500
100	Shri Spin Khongsdier	6	4	10	3	7	10	Farmer	1	1 ½	-	-	-	13	-	21,800
101	Shri Spier Khongsit	4	2	6	2	4	6	Farmer	½	1	-	-	-	8	-	20,000
102	Shri Wai Pararain	1	0	1	1	0	1	Farmer	1	2	-	-	-	0	-	9,500
103	Shri Talot Lynnong	1	0	1	1	0	1	Farmer	0	0	-	-	-	0	-	4,500
104	Shri Korai Dkhar	1	0	1	1	0	1	Farmer	2	1	-	-	-	0	-	8,900
105	Shri Tiw Khongsit	2	0	2	2	0	2	Farmer	½	½	-	-	-	0	-	12,000
106	Shri Hotingster Khongsdier	1	3	4	1	3	4	Farmer	½	½	-	-	-	3	-	16,000
107	Smt. Sngur Shrieh	2	4	6	0	6	6	Farmer	1	1	-	-	-	9	-	19,500
108	Smt. Kri Shrieh	0	2	2	1	1	2	Farmer	½	½	-	-	-	8	-	10,000
109	Smt. Stol Dkhar	1	0	1	1	0	1	Farmer	½	½	-	-	-	0	-	4,900
110	Shri Phainal Dkhar	1	2	3	1	2	3	Farmer	½	1	-	-	-	0	-	8,500
111	Smt. Kordor Shrieh	0	2	2	2	0	2	Farmer	2	1	-	-	-	0	-	14,500
111 Houses		261	264	525 Nos. of population.												

**SOCIO – ECONOMIC DATA OF MAWBAWEIN VILLAGE UNDER KHATAR SHNONG, LAITKROH C & RD BLOCK, EAST KHASI HILLS
DISTRICT, MEGHALAYA. PIN. NO – 793111.**

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	Poul - try	Hor - se	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	Shri. On Shabong	3	6	9	4	5	9	Farmers		√		√		√		25,000/-
2	Shri. Sbik Ksing	1	4	5	2	3	5	Farmers		√		√		√		20,000/-
3	Shri. Phing Khongngain	7	2	9	4	5	9	Farmers		√		√		√		25,000/-
4	Shri. S.Starwell Khonglam	4	3	7	5	2	7	Farmers		√		√		√		25,000/-
5	Shri. Phid Khongngain	4	2	6	3	3	6	Farmers		√		√		√		20,000/-
6	Smti. Sied Ksing	2	2	4	2	2	4	Farmers		√		√		√		26,000/-
7	Smti. Khriap Khonglam	3	2	5	2	3	5	Farmers		√		√		√		20,000/-
8	Shri. Blui Shrieh	1	0	1	1	0	1	Farmers		√		√		√		15,000/-
9	Shri. Niah Khongngain	1	2	3	1	2	3	Farmers		√		√		√		20,000/-
10	Smti. Biait Khongngain	1	1	2	1	1	2	Farmers		√		√		√		20,000/-
11	Smti. Wier Khongsit	4	2	6	2	4	6	Farmers		√		√		√		23,000/-
12	Shri. Phah Khongngain	3	1	4	1	3	4	Farmers		√		√		√		23,000/-
13	Smti. Sun Khonglam	4	3	7	3	4	7	Farmers		√		√		√		25,000/-
14	Smti. Riew Khonglam	4	4	8	3	5	8	Farmers		√		√		√		20,000/-
15	Smti. Bud Khongngain	2	5	7	2	5	7	Farmers		√		√		√		20,000/-
16	Smti. Kaiuk Khongngain	2	4	6	2	4	6	Farmers		√		√		√		25,000/-
17	Shri. Kylla Ksing	2	4	6	2	4	6	Farmers		√		√		√		26,000/-
18	Shri. Slem Khongngain	3	2	5	2	3	5	Farmers		√		√		√		24,000/-
19	Shri. Kham Khongngain	4	6	10	4	6	10	Farmers		√		√		√		26,000/-
20	Shri. Dwol Dkhar	2	1	3	1	2	3	Farmers		√		√		√		24,000/-
21	Shri. Ham Ksing	1	0	1	0	0	0	Farmers		√		√		√		15,000/-
22	Smti. Sirian khongsit	3	4	7	2	5	7	Farmers		√		√		√		23,000/-
23	Shri. Sliang Ksing	3	2	5	3	2	5	Farmers		√		√		√		26,000/-
24	Smti. Dondur Dkhar	4	2	6	2	4	6	Farmers		√		√		√		26,000/-
25	Shri. Skein Dkhar	5	2	7	2	5	7	Farmers		√		√		√		30,000/-
26	Shri. Phring Ksing	1	0	1	0	0	0	Farmers		√		√		√		20,000/-

SOCIO – ECONOMIC DATA OF RYMMAI VILLAGE UNDER LOWER WAH SOHRA WATERSHED IWMP - III

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	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	Sdiah Lynnong	1	1	2	2	-	2	Cultivator	-	2	-	-	-	-	-	25,000/-
2	Sopictor Phanbuh	3	2	5	1	4	5	-do-	-	5	-	-	-	-	-	27,000/-
3	Phlik Phanbuh	-	2	2	-	2	2	-do-	-	2	-	-	-	5	-	24,000/-
4	Phom Phanbuh	5	5	10	1	4	5	-do-	-	5	-	2	-	10	-	21,000/-
5	Phri Ksing	2	4	6	2	4	6	-do-	-	6	-	2	-	14	-	26,000/-
6	Thrui Phanbuh	1	1	2	-	2	2	-do-	-	2	-	-	-	-	-	20,000/-
7	Rimallin Phanbuh	1	4	5	1	4	5	-do-	-	5	-	1	-	4	-	24,000/-
8	Jrip Phanbuh	1	1	2	1	1	2	-do-	-	2	-	1	-	-	-	25,000/-
9	Omissila Phanbuh	5	2	7	-	7	7	-do-	-	7	-	2	-	-	-	24,000/-
10	Wip Khonglam	5	1	6	1	5	6	-do-	-	6	-	-	-	-	-	20,000/-
11	Di Khonglam	2	2	4	-	4	4	-do-	-	4	-	-	-	-	-	24,000/-
12	Kjor Phanbuh	3	3	6	1	5	6	-do-	-	6	-	1	-	5	-	27,000/-
13	Phinda Phanbuh	2	1	3	-	3	3	-do-	-	3	-	-	-	-	-	23,000/-
14	Kynjut Ksing	1	2	3	-	3	3	-do-	-	3	-	-	-	-	-	19,000/-
15	Lthoin Phanbuh	2	5	7	-	7	7	-do-	-	7	-	-	-	-	-	21,000/-
16	Thring Phanbuh	4	3	6	-	6	6	-do-	-	6	-	-	-	-	-	24,000/-
17	Syun Swer	2	1	3	-	3	3	-do-	-	3	-	-	-	-	-	27,000/-

SOCIO – ECONOMIC DATA OF RYMMAI VILLAGE UNDER LOWER WAH SOHRA WATERSHED IWMP - III

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	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
18	Hom Phanbuh	2	3	5	-	5	5	Colticator	-	5	-	-	-	-	-	20,000/-
19	Trak Phanbuh	2	2	4	1	3	4	-do-	-	4	-	-	-	5	-	25,000/-
20	Pynsuklang Phanbuh	3	2	5	-	5	5	-do-	-	5	-	-	-	6	-	24,000/-
21	Lngut Khonglam	3	4	7	4	3	7	-do-	-	7	-	-	-	-	-	22,000/-
22	Miej Phanbuh	3	2	5	1	4	5	-do-	-	7	-	-	-	5	-	27,000/-
23	Balning Phanbuh	3	1	4	1	3	4	-do-	-	4	-	-	-	1	-	20,000/-
24	Keyda Ohanbuh	2	2	4	1	3	4	-do-	-	4	-	1	-	7	-	24,000/-
25	Thwin Phanbuh	1	3	4	1	3	4	-do-	-	4	-	1	-	4	-	21,000/-
26	Moren Khonglam	3	-	3	3	-	3	-do-	-	3	-	-	-	6	-	27,000/-
27	Jhom Khonglam	1	3	4	1	-	4	-do-	-	4	-	-	-	4	-	20,000/-
28	Robina Khonglam	3	3	6	1	5	6	-do-	-	6	-	-	-	6	-	25,000/-
29	Yolan Phanbuh	3	4	6	-	6	6	-do-	-	6	-	-	-	7	-	20,000/-
30	Shrik phanbuh	4	3	7	-	7	7	-do-	-	7	-	-	-	-	-	19,000/-
31	Jiep Phanbuh	1	1	2	-	2	2	-do-	-	2	-	-	-	-	-	21,000/-
32	Bincent Phanbuh	2	-	2	2	-	2	-do-	-	2	-	-	-	-	-	23,000/-

SOCIO – ECONOMIC DATA OF MAWSHKEN VILLAGE UNDER LOWER WAH SOHRA WATERSHED IWMP - III

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	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	Tholi Linnong	3	3	6	1	5	6	Farmer	-	6	-	1	-	5	-	20,000/-
2	Lar Shrieh	1	-	1	-	1	1	-do-	-	-	-	-	-	-	-	1,000/-
3	Number Khongshei	2	4	6	-	6	6	-do-	-	6	-	2	-	5	-	23,000/-
4	Jingka Linnong	2	3	5	-	5	5	-do-	-	5	-	-	-	4	-	25,000/-
5	Bnai Phanbuh	5	3	7	-	7	7	-do-	-	7	-	1	-	7	-	24,000/-
6	Lod Swer	1	-	1	-	1	1	-do-	-	1	-	1	-	1	-	22,000/-
7	Iod Linnong	4	4	8	-	1	8	-do-	-	8	-	2	-	6	-	20,000/-
8	Phyrnai Ksing	3	2	5	-	5	5	-do-	-	5	-	-	-	-	-	2,600/-
9	Ribud Phanbuh	-	1	1	-	1	1	-do-	-	1	-	-	-	-	-	27,000/-
10	Sain Linnong	2	2	4	2	2	4	-do-	-	4	-	1	-	3	-	19,000/-
11	Shanduwan Linnong	3	2	5	-	5	5	-do-	-	5	-	2	-	1	-	21,000/-
12	Skaw Linnong	1	-	1	-	1	1	-do-	-	1	-	-	-	-	-	26,000/-

SOCIO – ECONOMIC DATA OF PDANG VILLAGE UNDER

Sl. No.	Name of the Head of the Family	Population			Literacy			Occupation	Agriculture Area		Livestock					Annual Income
		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	Blit Khongshei	2	2	4	1	3	4	Farmer	1	1		1				15,000/-
2	Phran Tding	2	2	4	1	3	4	-do-	½	1						18,000/-
3	Kding Khongshei	5	3	8	2	6	8	-do-	2	1		1				18,000/-
4	Phran Khongshei	2	2	4	1	4	5	-do-	1	1						14,000/-
5	Skit Rynjem	4	4	8	1	6	7	-do-	2	1		1				16,000/-
6	Tynjuh Khongshei	2	3	5	x	4	4	-do-	1	1						15,000/-
7	Barsha Buhphang	6	1	7	x	4	4	-do-	1	2		1				20,000/-
8	Wanhok Kynshah	2	2	4	4	x	4	-do-	2	1		1				16,000/-
9	Rison Khongshei	3	1	4	x	3	3	-do-	1	1		1				15,000/-
10	Tipar Kynshah	3	1	4	4	x	4	-do-	2	1		1				18,000/-
11	Rijanai Khongshei	1	2	3	x	3	3	-do-	1	2						14,000/-
12	Duwan Kynshah	4	3	7	2	5	7	-do-	2	2		1				18,000/-

SOCIO – ECONOMIC DATA OF DEWIONG - DEWSAW VILLAGE UNDER

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	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	Phrien Khonglam	2	3	5	1	4	5	Farmer	1	1				7		18,000/-
2	Rila Shabong	4	1	5	2	3	5	-do-	2	1				8		16,000/-
3	Theimon Shabong	2	2	4	2	2	4	-do-	1	2				7		19,000/-
4	Pina Ksing	1	3	4	3	1	4	-do-	1	1				6		18,000/-
5	Syik Ksing	1	1	2	1	1	2	-do-	1	1½				10		16,000/-
6	Jrep Ksing	2	1	3	1	2	3	-do-	1	1				2		20,000/-
7	Krih Ksing	3	2	5	2	3	5	-do-	2	1				2		17,000/-
8	Lngui Ksing	2	4	6	5	1	6	-do-	2	1		1		5		19,000/-
9	Jraiñ Shabong	3	2	5	1	4	5	-do-	1	2				4		20,000/-
10	Lhier Ksing	2	2	4	1	3	4	-do-	1	1½		1		x		20,000/-
11	Phah Ksing	1	4	5	2	3	5	-do-	1½	1		1		x		18,000/-
12	Lhui Ksing	6	2	8	4	4	8	-do-	2	1		3		2		22,000/-
13	Ai Shabong	2	5	7	3	4	7	-do-	1	1				12		20,000/-
14	Rola Khonglam	3	4	7	2	5	7	-do-	1	2		1		x		17,000/-
15	Bet Ksing	3	5	8	4	4	8	-do-	1½	1		2		25		21,000/-
16	Phom Khonglam	4	3	7	2	5	7	-do-	2	1		1		8		20,000/-
17	Dinsi Khonglam	6	3	9	2	7	9	-do-	2	1		x		5		21,000/-
18	Thwei Shabong	3	3	6	3	3	6	-do-	1	2		2		8		20,000/-
19	Thri Khonglam	2	1	3	2	1	3	-do-	½	1		1		3		18,000/-
20	Tngenlang Ksing	3	1	4	2	2	4	-do-	2	1		1		5		16,000/-
21	Bian Shabong	1	3	4	1	3	4	-do-	2	2		1		4		17,000/-
22	Ian K. Rymmai	1	1	2	1	1	2	-do-	1	1		x		2		18,000/-
23	Romila Lynnong	2	2	4	2	2	4	-do-	1	2		x		4		19,000/-
24	Kjiel Khongsit	4	4	8	3	5	8	-do-	1	1		x		2		21,000/-
25	Rimen Khonglam	1	1	2	1	1	2	-do-	½	1		x		3		15,000/-
26	Ngien Mawkhiew	3	4	7	2	5	7	-do-	2	2		x		4		18,000/-
27	Phiet Buhphang	2	2	4	2	2	4	-do-	1	1		x		4		20,000/-

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....

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

Total = Rs.7,500.00

(Rupees Seven Thousand Five Hundred) 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 @ Rs.100/- per manday - Rs. 300.00

II. Pit digging (pit size 0.45m x 0.45m x 0.45m)
 200 Nos. @ Rs.5/- each - Rs.1000.00

Total - Rs.1300.00

B. First year Planting

I. Cost of planting materials

200 Nos. @ Rs.10/- each - Rs.2000.00

II. Cost of planting 200 Nos. @ Rs. 3/- each - Rs. 600.00

III. Weeding two times

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

Total - Rs.4600.00

C. Second year Planting

I. Refilling vacancy (10%)

- Rs. 360.00

II. Weeding two times

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

III Plant protection measures including
 cost of chemical

- Rs. 340.00

Total - Rs.2700.00

Grand Total A+B+C = Rs.1300.00 + Rs.4600.00 + Rs.2700.00 = Rs.8600.00

(Rupees Eight thousand six hundred) only.

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

Spacing 6m x 5.5m

Plant Density – 300 Nos.

B. Preliminary works

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

B. First year Planting

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

C. Second year Planting

I. Vacancy refilling (10%)	-	Rs. 400.00
II. Weeding two times 20 mandays		

@ Rs.100/- per manday	-	Rs. 2000.00
III. Fire protection measures		
5 mandays @ Rs.100/- per manday	-	<u>Rs. 500.00</u>
Total	-	Rs. 2900.00
Grand Total A+B+C = Rs.1700.00 + Rs.5500.00 + Rs.2900.00 =		Rs.10100.00
(Rupees Ten thousand one hundred) only.		

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

(Rate as per PWD, SOR for R&B 2008 – 2009)

C. Preliminary works

K. Site clearance

3 mandays @ Rs.100/- per manday - Rs. 300.00

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

100 Nos. @ Rs.4/- each - Rs. 400.00

Total - Rs. 700.00

B. First year Planting

I. Cost of planting materials

100 Nos. @ Rs.8/- each - Rs. 800.00

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

- Rs. 200.00

III. Round Weeding around the plant four times

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

IV. Fire protection measures

4 mandays @ Rs.100/- per manday - Rs. 400.00

Total - Rs.1900.00

C. Second year Planting

I. Refilling vacancy (10%)

- Rs. 100.00

III. Round Weeding around the plant four times

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

III. Fire protection measures

4 mandays @ Rs.100/- per manday

	-	<u>Rs. 400.00</u>
Total	-	Rs.1000.00

Grand Total A+B+C = Rs.700.00 + Rs.1900.00 + Rs.1000.00 = Rs.3600.00

(Rupees Three thousand six hundred) only.

**COST NORMS PER HECTARE FOR COFFEE PLANTATION (ROBUSTA)
@ RS. 100/- PER MANDAY (MD)**

Spacing – 5 m x 4 m
Plant Density – 500 nos.

1. Preliminary Works:

- | | | |
|-----|---|-----------------------|
| i. | Cost of seedling @ Rs. 5/- | - Rs. 2,500.00 |
| ii. | Construction of Half moon/ Box terracing including pit digging (pit size 0.45 m x 0.45 m x 0.45 m) @ Rs. 3/- each | - Rs. 1,500.00 |
| | | - Rs. 4,000.00 |

Total

2. First Year Planting:

- | | | |
|------|---|-----------------------|
| i. | Cost of Fertilizers (45:30:45 NPK/ha) including transportation | - Rs. 2,000.00 |
| ii. | Cost of application of fertilizers once in June-July and September-October before mulching 2 times. | |
| | a. Robusta – 14 mds @ Rs.100 | - Rs. 1,400.00 |
| iii. | Plant Protection chemicals including cost of application | - Rs. 600.00 |
| | Total | - Rs. 4,000.00 |

3. Second Year Maintenance:

- | | | |
|----|---------------------------------------|-----------------------|
| i. | Cost of Fertilizers (60:45:60 NPK/ha) | - Rs. 2,000.00 |
| | Total | - Rs. 2,000.00 |

ABSTRACT

1. Preliminary Works	-	Rs. 4,000/-
2. First Year Planting	-	Rs. 4,000/-
3. Second Year Maintenance	-	Rs. 2,000/-
Total	-	Rs. 10,000/-

(Rupees Ten Thousand) only.

ESTIMATE FOR CONSTRUCTION OF WATER HARVESTING STRUCTURE

(The rate based as per M.P.W.D Schedule of rates for Roads, Bridges and
E & D Works 2008 - 2009)

Name of Beneficiary -
Name of Location -
Name of Village -

- 1/4 (b) Earthwork in excavation for foundation of bridges and culverts, up to the founding level including making of cofferdam, dewatering, bailing and diversion of water. In order to keep the foundation trenches free of water. The sides of the foundation to be protected by adequate shoring, scaffolding after leveling the foundation both longitudinally and transversely as directed.

$$1 \times 25.00 \times 1.30 \times 0.70 = 22.75 \text{ m}^3$$
$$@ \text{Rs.}152.00/\text{m}^3$$

Rs. 3458.00

- 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 in order to keep the foundation by adequate shoring scaffolding. The foundation is leveled both longitudinally and transversely as directed.

$$2 \times 2.20 \times 0.80 \times 0.60 = 2.11 \text{ m}^3$$
$$2 \times 3.50 \times 0.90 \times 0.70 = 4.41 \text{ m}^3$$
$$1 \times 13.60 \times 0.30 \times 0.25 = \frac{1.02 \text{ m}^3}{7.54 \text{ m}^3}$$
$$@ \text{Rs.}93.00/\text{m}^3$$

Rs. 701.22

- 3/26 Providing cement concrete work in proportion 1:4:8 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.

$$1 \times 25.00 \times 1.30 \times 0.10 = 3.25 \text{ m}^3$$

$$\begin{aligned}
 2 \times 2.20 \times 0.80 \times 0.10 &= 0.35 \text{ m}^3 \\
 2 \times 3.50 \times 0.90 \times 0.10 &= \underline{0.63 \text{ m}^3} \\
 &4.32 \text{ m}^3
 \end{aligned}$$

@ Rs.2136.00/m³

Rs. 9035.28

- 4/41 (a) Providing shuttering with dressed planks not less than 25mm thick properly joined including battens, props to the proper level and removing the same after the concrete hardened.

$$\begin{aligned}
 1 \times 25.00 \times 2.00 &= 50.00 \text{ m}^2 \\
 2 \times 8.00 \times 0.45 &= 7.20 \text{ m}^2 \\
 2 \times 4.33 \times 0.30 &= 2.60 \text{ m}^2 \\
 2 \times 0.50 \times 0.30 &= \underline{0.30 \text{ m}^2} \\
 &60.10 \text{ m}^2
 \end{aligned}$$

@ Rs.295.00/m²

Rs. 17729.50

- 5/28 Providing C.C. work in prop 1:3:6 with hard broken stone aggregates 40mm down graded in abutment curing and return walls, including necessary carriage of stone and sand within a distance of 200m etc.

$$\begin{aligned}
 1 \times 25.00 \times 1.30 \times 0.10 &= 3.25 \text{ m}^3 \\
 1 \times 25.00 \times 2.00 \times 0.15 &= 7.50 \text{ m}^3 \\
 2 \times 8.00 \times 0.45 \times 0.15 &= 1.08 \text{ m}^3 \\
 1 \times 9.00 \times 2.00 \times 0.10 &= 1.80 \text{ m}^3 \\
 2 \times 4.33 \times 0.30 \times 0.50 &= \underline{1.30 \text{ m}^3} \\
 &14.93 \text{ m}^3
 \end{aligned}$$

@ Rs.2344.00/m³

Rs. 34995.92

- 6/20 Providing regular stone masonry work in returning walls, breast walls and wing walls with hammer dressed or blunt chisel dressed stones of heavy section with proper key stones each not less than 25cm X 25cm X 75cm, in cement mortar 1:6 including carriage of stone within 200m

$$1 \times 25.00 \times 0.95 \times 0.50 = 11.87 \text{ m}^3$$

$$\begin{aligned}
2 \times 25.00 \times \frac{0.45 + 0.95}{2} \times 1.50 &= 26.25 \text{ m}^3 \\
2 \times 8.00 \times 0.45 \times 0.45 &= 3.24 \text{ m}^3 \\
2 \times 2.20 \times 0.80 \times 0.50 &= 1.76 \text{ m}^3 \\
2 \times 2.20 \times \frac{0.50 + 0.80}{2} \times 1.50 &= 4.29 \text{ m}^3 \\
2 \times 3.50 \times 0.90 \times 0.60 &= 3.78 \text{ m}^3 \\
2 \times 3.50 \times \frac{0.50 + 0.90}{2} \times 1.95 &= 9.55 \text{ m}^3 \\
1 \times 13.60 \times 0.30 \times 0.45 &= 1.84 \text{ m}^3 \\
&62.58 \text{ m}^3 \\
&\text{@ Rs.1060.00/m}^3
\end{aligned}$$

Rs. 66334.10

- 7/24 Providing stone pitching with one-man size boulders not less than 25cm x 25cm x 30cm, including filling the interstices with spoils and carriage of stone within a distance of 200m complete as directed.

$$\begin{aligned}
1 \times 9.00 \times 2.00 \times 0.25 &= 4.50 \text{ m}^3 \\
&\text{@ Rs.512.00/m}^3
\end{aligned}$$

Rs. 2304.00

- 8/27 Providing 12mm thick cement plastering including cleaning (b) surface, curing and carriage of sand within 200m complete.

$$\begin{aligned}
1 \times 25.00 \times 1.50 &= 37.50 \text{ m}^2 \\
1 \times 25.00 \times 1.68 &= 39.50 \text{ m}^2 \\
1 \times 25.00 \times 0.60 &= 15.00 \text{ m}^2 \\
4 \times 8.00 \times 0.45 &= 14.40 \text{ m}^2 \\
2 \times 0.60 \times 0.45 &= 0.54 \text{ m}^2 \\
1 \times 9.60 \times 2.30 &= 22.08 \text{ m}^2 \\
1 \times 14.20 \times 0.20 &= 2.84 \text{ m}^2 \\
2 \times 4.33 \times 1.10 &= 9.53 \text{ m}^2 \\
4 \times 0.50 \times 0.30 &= 0.60 \text{ m}^2 \\
2 \times 2.20 \times 2.00 &= 8.80 \text{ m}^2
\end{aligned}$$

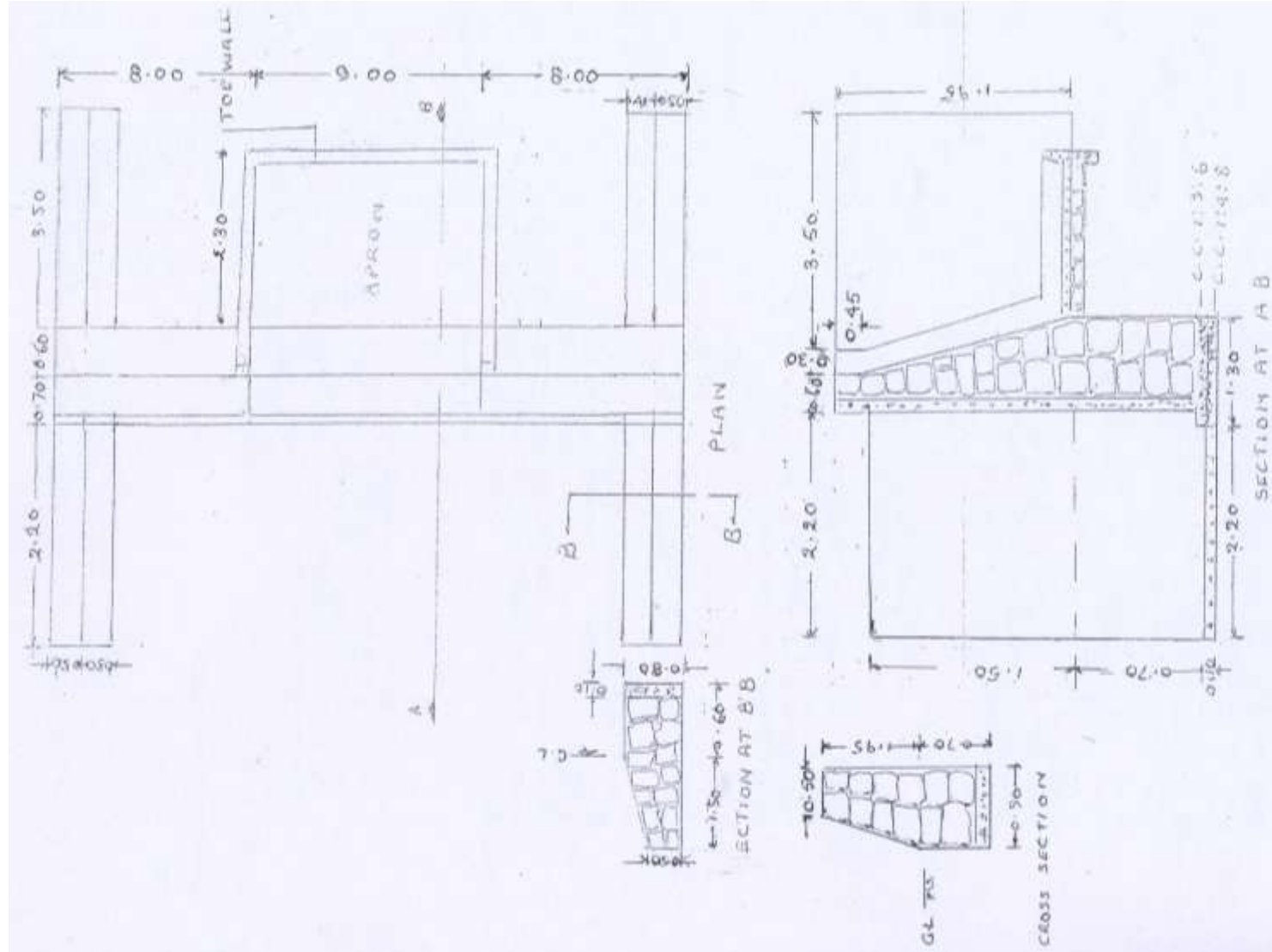
$$2 \times 3.50 \times 2.45 = \frac{17.15 \text{ m}^2}{167.94 \text{ m}^2}$$

@ Rs.92.00/m²

TOTAL: $\frac{\text{Rs. } 15450.48}{\text{Rs. } 150008.50}$

Say Rs.1,50,000.00

(Rupees One lakh fifty thousand) only.



ESTIMATE FOR CONSTRUCTION OF WATER DISTRIBUTION WORKS

(The rate based as per P.W.D Schedule of rates for Roads, Bridges and
E & D Works 2008 - 2009)

Name of Beneficiary -

Name of Location/Village -

- 1/4 (b) Earthwork in excavation for foundation of bridges and culverts, up to the founding level including making of cofferdam, dewatering, bailing and diversion of water. In order to keep the foundation trenches free of water. The sides of the foundation to be protected by adequate shoring, scaffolding after leveling the foundation both longitudinally and transversely as directed.

$$1 \times 15.00 \times 1.20 \times 0.50 = 9.00 \text{ m}^3$$

$$@ \text{Rs.}152.00/\text{m}^3$$

Rs. 1368.00

- 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 in order to keep the foundation by adequate shoring scaffolding. The foundation is leveled both longitudinally and transversely as directed.

$$2 \times 3.20 \times 0.80 \times 0.50 = 2.56 \text{ m}^3$$

$$1 \times 9.00 \times 0.30 \times 0.20 = \frac{0.54 \text{ m}^3}{3.10 \text{ m}^3}$$

$$@ \text{Rs.}93.00/\text{m}^3$$

Rs. 288.30

- 3/26 Providing cement concrete work in proportion 1:4:8 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.

$$1 \times 15.00 \times 1.20 \times 0.10 = 1.800 \text{ m}^3$$

$$2 \times 3.20 \times 0.80 \times 0.10 = \frac{0.512 \text{ m}^3}{2.312 \text{ m}^3}$$

		@ Rs.2136.00/m ³	Rs. 4938.43
4/41 (a)	Providing shuttering with dressed planks not less than 25mm thick properly joined including battens, props to the proper level and removing the same after the concrete hardened.		
	1 x 15.00 x 1.50	= 22.50 m ²	
	2 x 5.00 x 0.30	= 3.00 m ²	
	4 x 3.50 x 0.30	= 4.20 m ²	
	2 x 0.50 x 0.30	= 0.30 m ²	
		30.00 m ²	
		@ Rs.295.00/m ²	Rs. 8850.00
5/28	Providing C.C. work in prop 1:3:6 with hard broken stone aggregates 40mm down graded in abutment curing and return walls, including necessary carriage of stone and sand within a distance of 200m etc.		
	1 x 15.00 x 1.10 x 0.10	= 1.65 m ³	
	1 x 15.00 x 1.40 x 0.15	= 3.15 m ³	
	2 x 5.00 x 0.30 x 0.15	= 0.45 m ³	
	1 x 5.00 x 1.70 x 0.10	= 0.85 m ³	
	2 x 3.50 x 0.30 x 0.50	= 1.05 m ³	
		7.15 m ³	
		@ Rs.2344.00/m ³	Rs. 16759.60
6/20	Providing regular stone masonry work in returning walls, breast walls and wing walls with hammer dressed or blunt chisel dressed stones of heavy section with proper key stones each not less than 25cm X 25cm X 75cm, in cement mortar 1:6 including carriage of stone within 200m		
	1 x 15.00 x 0.95 x 0.30	= 4.275 m ³	
	1 x 15.00 x (0.45+0.95)/2 x 1.10	= 11.550 m ³	

$$\begin{aligned}
2 \times 5.00 \times 0.45 \times 0.30 &= 1.350 \text{ m}^3 \\
2 \times 3.30 \times 0.80 \times 0.40 &= 2.048 \text{ m}^3 \\
2 \times 3.20 \times (0.50+0.80)/2 \times 1.40 &= 5.824 \text{ m}^3 \\
1 \times 9.00 \times 0.30 \times 0.45 &= 1.215 \text{ m}^3 \\
&\underline{26.262 \text{ m}^3} \\
&\text{@ Rs.1060.00/m}^3
\end{aligned}$$

Rs. 27837.72

- 7/25 Providing boulder or stone filling with unsized stone of one man size of 60cm with behind the apartment wing retaining walls etc.

$$\begin{aligned}
1 \times 5.00 \times 1.70 \times 0.25 &= 2.125 \text{ m}^3 \\
&\text{@ Rs.322.00/m}^3
\end{aligned}$$

Rs. 684.25

- 8/27 Providing 12mm thick cement plastering including cleaning surface, curing and carriage of sand within 200m complete.
(b)

$$\begin{aligned}
1 \times 15.00 \times 1.10 &= 16.50 \text{ m}^2 \\
1 \times 15.00 \times 1.20 &= 18.00 \text{ m}^2 \\
1 \times 15.00 \times 0.60 &= 9.00 \text{ m}^2 \\
4 \times 5.00 \times 0.30 &= 6.00 \text{ m}^2 \\
2 \times 0.60 \times 0.30 &= 0.36 \text{ m}^2 \\
2 \times 3.50 \times 1.10 &= 7.70 \text{ m}^2 \\
4 \times 0.50 \times 0.30 &= 0.60 \text{ m}^2 \\
1 \times 5.60 \times 1.70 &= 9.52 \text{ m}^2 \\
2 \times 0.20 \times 1.70 &= 0.68 \text{ m}^2 \\
1 \times 5.60 \times 0.50 &= 2.80 \text{ m}^2 \\
2 \times 0.20 \times 0.30 &= 0.12 \text{ m}^2 \\
2 \times 3.20 \times 1.90 &= 12.16 \text{ m}^2 \\
&\underline{83.44 \text{ m}^2} \\
&\text{@ Rs.92.00/m}^2
\end{aligned}$$

Rs. 7676.48

- 9/14 Cutting roadside drain including dressing, grading and removal of spoil up to 15.0m complete as directed.
(b) (ii)

$$\begin{aligned}
1 \times 48.40 &= 48.40 \text{ Rm} \\
&\text{@ Rs.44.00/Rm}
\end{aligned}$$

Rs. 1403.60

10/Sus Rate based on Market rate:
Supplying fitting, fixing G.I.Pipes with sockets as directed
complete

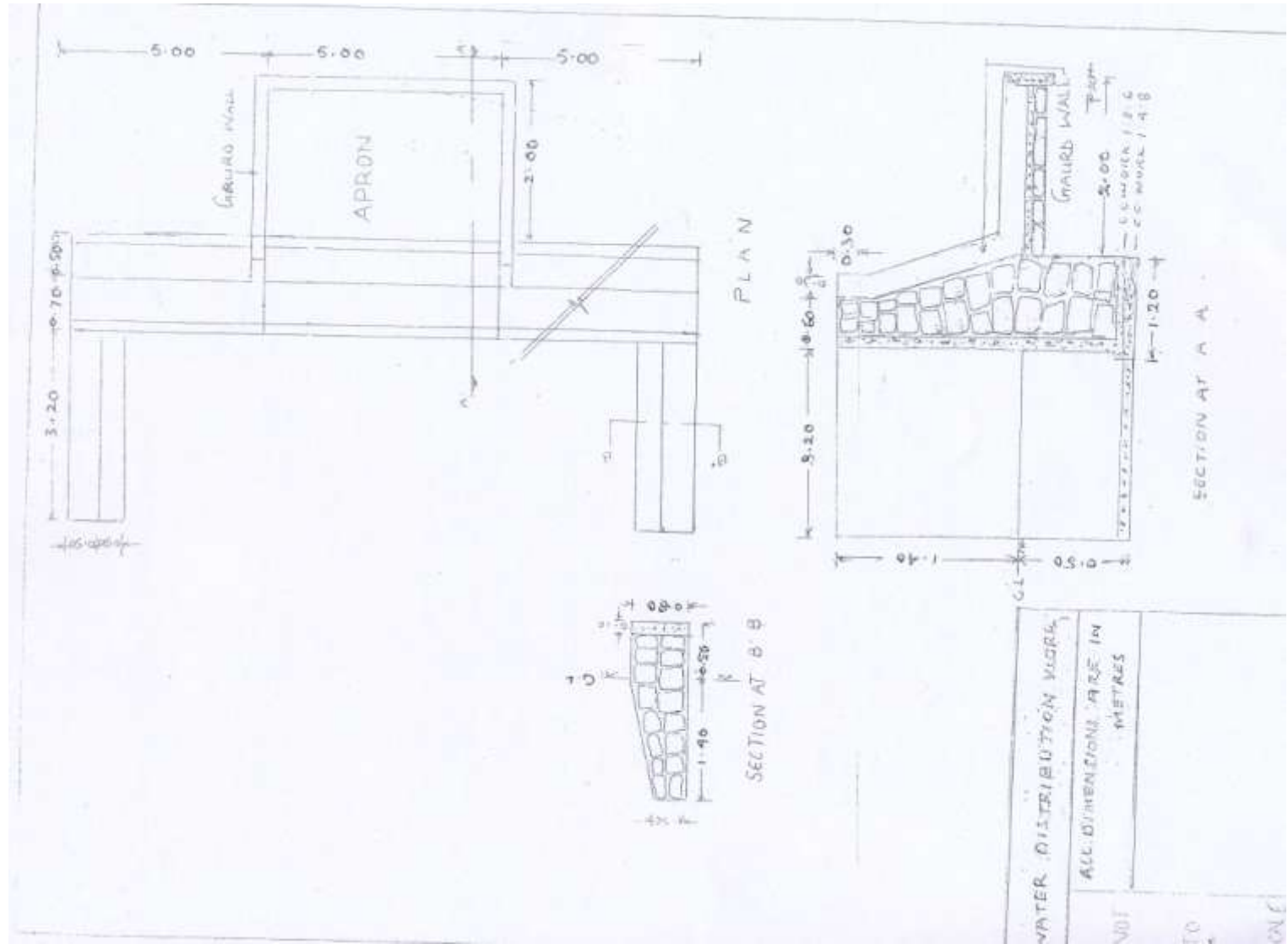
on L.S Basis

Rs. 195.00

TOTAL: Rs.70001.32

Say Rs 70,000.00

(Rupees Seventy thousand) only.



ESTIMATE FOR CONSTRUCTION OF BETELNUT SOAKING TANK/POND

The Rate based as per P.W.D. Schedule of rates for Roads, Bridges and E & D Works 2008 – 2009.

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.		
	$2 \times 6.80 \times 4.00 \times 1.85 = 100.64 \text{ m}^3$		
	@ Rs. 63.00/m ³	Rs.	6,340.32
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. i) Extra for excavation in through cutting over 150 cm height at the lowest point.		
	Qty vide item No. 1/3 (d) = 100.64 m ³		
	@ Rs. 13.00/m ³	Rs.	1,308.32
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		
	$2 \times 1 \times 6.80 \times 4.00 \times 0.25 = 13.60 \text{ m}^3$		
	@ Rs. 322.00/m ²	Rs.	4,379.20
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.

$$\begin{aligned} 2 \times 2 \times 4.00 \times 1.80 \times 0.40 &= 11.52 \text{ m}^3 \\ 2 \times 2 \times 6.00 \times 1.80 \times 0.40 &= 17.28 \text{ m}^3 \\ &= 28.80 \text{ m}^3 \end{aligned}$$

@ Rs. 1060.00/m³ Rs. 30,528.00

- 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.

$$\begin{aligned} 2 \times 2 \times 3.00 \times 1.80 &= 21.60 \text{ m}^2 \\ 2 \times 2 \times 5.80 \times 1.80 &= 41.76 \text{ m}^2 \\ &= 63.36 \text{ m}^2 \end{aligned}$$

@ Rs. 92.00/m² Rs. 18,691.20

- 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

$$\begin{aligned} 2 \times 1 \times 6.80 \times 4.00 \times 0.10 &= 4.80 \text{ m}^2 \\ 2 \times 2 \times 6.00 \times 1.80 \times 0.10 &= 4.32 \text{ m}^2 \\ 2 \times 2 \times 3.00 \times 1.80 \times 0.10 &= 2.16 \text{ m}^2 \\ &= 11.28 \text{ m}^2 \end{aligned}$$

@ Rs. 2344.00/m² Rs. 26,440.32

7/27 Providing 12mm thick cement plastering including cleaning surface, curing carriage of sand within 200m complete.

$$\begin{aligned}
 2 \times 1 \times 5.80 \times 3.00 &= 34.80 \text{ m}^2 \\
 2 \times 2 \times 5.80 \times 1.80 &= 41.76 \text{ m}^2 \\
 2 \times 2 \times 3.00 \times 1.80 &= 21.60 \text{ m}^2 \\
 2 \times 2 \times 6.80 \times 0.30 &= 8.16 \text{ m}^2 \\
 2 \times 2 \times 4.00 \times 0.30 &= 4.80 \text{ m}^2 \\
 2 \times 1 \times 21.60 \times 0.50 &= \underline{21.60 \text{ m}^2} \\
 &= 132.72 \text{ m}^2
 \end{aligned}$$

@ Rs. 92.00/ m²

Rs. 12,210.24

8/ Providing filling fitting of G.I Pipe

In L.S.

	Rs.	105.00
Total	Rs.	1,00,002.60
Say	Rs.	1,00,000.00

(Rupees One Lakh) Only.

ESTIMATE FOR CONSTRUCTION OF RURAL GODOWN

(The rate based as per M.P.W.D Schedule of rates for Building 2007 - 2008)

- 1/1.1 Earthwork in excavation in foundation trenches, including dressing of sides and ramming of the bottom including stacking of serviceable stones, disposal and removal of excavated earth within a lead of 50m and lift of 1.50m complete.

(b)

Colm	6 x 1.20 x 1.20 x 1.00	=	8.640 m ³
	3 x 1.00 x 1.00 x 0.85	=	2.550 m ³
Plinth	2 x 4.00 x 0.30 x 0.45	=	1.080 m ³
	2 x 6.00 x 0.30 x 0.45	=	1.620 m ³
	2 x 1.50 x 0.30 x 0.35	=	0.315 m ³
	1 x 6.00 x 0.30 x 0.35	=	0.630 m ³
	1 x 4.00 x 0.30 x 0.25	=	<u>0.300 m³</u>
			15.135 m ³

@ Rs.85.00/m

Rs. 1286.47

- 2/2.1 Providing and laying cement concrete in proportion 1:4:8 (1-cement, 4-sand, 8-stone Aggregate of 63mm and down graded) including necessary curing complete excluding shuttering.

(b)

Colm	6 x 1.20 x 1.20 x 0.10	=	0.864 m ³
	3 x 1.00 x 1.00 x 0.10	=	<u>0.300 m³</u>
			1.164 m ³

@ Rs.2351.00/m³

Rs. 2736.56

- 3/6.2 Providing for steel reinforcement in R.C.C work excluding cutting, bending, cranking and tying in position with binding wire 20 gauge, complete upto floor two level.

(ii)

Net	6 x 20 x 1.20 x 0.89	=	1.282 Qtls.
	3 x 16 x 1.00 x 0.89	=	0.427 Qtls.
Colm	6 x 4 x 4.75 x 1.58	=	1.801 Qtls.
	3 x 4 x 4.55 x 0.89	=	0.486 Qtls.

T/Beam	2 x 4 x 5.70 x 0.89	=	0.406 Qtls.	
	3 x 4 x 6.20 x 0.89	=	0.662 Qtls.	
Lintel	6 x 4 x 1.45 x 0.62	=	0.216 Qtls.	
	2 x 4 x 1.30 x 0.62	=	<u>0.064 Qtls.</u>	
			5.344 Qtls.	
		@ Rs.5373.00/Qtls.		Rs. 28713.31

4/6.1
(ii) Providing mild steel reinforcement for R.C.C work including cutting, bending, cranking and tying in position with binding wire 20 gauge, complete upto floor two level.

Col ^m	6 x 29 x 0.70 x 0.22	=	0.268 Qtls.	
	3 x 28 x 0.50 x 0.22	=	0.092 Qtls.	
T/Beam	2 x 36 x 0.75 x 0.22	=	0.119 Qtls.	
	3 x 41 x 0.75 x 0.22	=	0.203 Qtls.	
Lintel	6 x 9 x 0.45 x 0.22	=	0.053 Qtls.	
	2 x 8 x 0.45 x 0.22	=	<u>0.016 Qtls.</u>	
			0.751 Qtls.	
		@ Rs.4704.00/Qtls		Rs. 3532.70

5/3.5
(b) Providing coursed random rubble stone masonry in foundation and plinth with unsized stone bonded with cement mortar of proportion 1:6.

	2 x 3.80 x 0.30 x 0.45	=	1.026 m ³	
	4 x 2.80 x 0.30 x 0.45	=	1.512 m ³	
	2 x 2.80 x 0.30 x 0.35	=	0.588 m ³	
	2 x 1.30 x 0.30 x 0.35	=	0.273 m ³	
	1 x 4.00 x 0.30 x 0.35	=	<u>0.420 m³</u>	
			3.819 m ³	
		@ Rs.1833.00/m ³		Rs. 7000.22

- 6/2.9 Providing shuttering including centering for flat surface
(a) such as slabs, shelves, chajja and for vertical faces such as columns, walls, ends of beams etc. with dressed plank not less than 25cm thick firmly fixed etc. complete as directed.

Colm	6 x 4 x 0.25 x 1.05	=	6.30 m ²
	6 x 4 x 0.20 x 3.10	=	14.88 m ²
	3 x 4 x 0.20 x 0.50	=	1.20 m ²
	3 x 4 x 0.15 x 2.90	=	5.22 m ²
P/Beam	2 x 2 x 0.25 x 3.80	=	3.80 m ²
	2 x 2 x 0.20 x 1.30	=	1.04 m ²
	4 x 2 x 0.25 x 2.80	=	5.60 m ²
Lintel	2 x 2 x 0.20 x 2.80	=	2.24 m ²
	6 x 2 x 0.15 x 1.40	=	2.52 m ²
	2 x 2 x 0.15 x 1.20	=	0.72 m ²
			<u>43.52 m²</u>
		@ Rs.148.00/m ²	

Rs. 6440.96

- 7/2.4 Providing and laying cement concrete in proportion 1:2:4
(i) (b) corresponding to M100 including necessary curing complete excluding shuttering.

F/Colm	6 x 1.20 x 1.20 x 0.40	=	3.456 m ³
	3 x 1.00 x 1.00 x 0.30	=	0.900 m ³
Colm	6 x 0.25 x 0.25 x 1.05	=	0.394 m ³
	6 x 0.20 x 0.20 x 3.10	=	0.744 m ³
	3 x 0.20 x 0.20 x 0.50	=	0.060 m ³
	3 x 0.15 x 0.15 x 2.80	=	0.189 m ³
	6 x 0.15 x 0.10 x 1.40	=	0.126 m ³
	2 x 0.15 x 0.10 x 1.20	=	0.036 m ³
			<u>5.905 m³</u>
		@ Rs.3247.00/m ³	

Rs. 19173.53

8/3.9 Providing first class brick wall in required thickness in
(ii) (b) cement mortar 1:6 including curing complete as directed

Wall	2 x 4.00 x 3.10	=	24.80 m ²
	4 x 3.00 x 3.10	=	37.20 m ²
	2 x 1.50 x 1.20	=	3.60 m ²
Less for opening (-) D	2 x 1.20 x 2.10	=	(-)5.04 m ²
W	4 x 1.20 x 1.50	=	(-)7.20 m ²
	2 x 1.00 x 1.50	=	(-)3.00 m ²
			<u>50.36 m²</u>
		@ Rs.384.00/m ²	

Rs. 19338.24

9/7.2 Providing undressed wood work in trusses, purlins, rafters,
(b) post plates, wall plates and the like, framed, hoisted and
fixed in position with nails, spikes, nuts and bolts etc.

Beam	3 x 6.50 x 0.10 x 0.075	=	0.146 m ³
	2 x 5.90 x 0.10 x 0.075	=	0.088 m ³
King post	8 x 0.65 x 0.10 x 0.10	=	0.052 m ³
Struts	16 x 1.25 x 0.075 x 0.075	=	0.113 m ³
R/rafter	16 x 2.65 x 0.10 x 0.075	=	0.318 m ³
Purlin	13 x 6.30 x 0.10 x 0.075	=	<u>0.614 m³</u>
			1.331 m ³
		@ Rs.16636.00/m	

Rs. 22142.51

10/1.3 Earthwork in filling available excavated earth in trenches,
plinth, sides of foundation etc. in layers not exceeding
20cm thick including breaking clods consolidating each
layer by ramming and watering etc.

	1 x 3.80 x 5.80 x 0.45	=	9.918 m ³
	1 x 5.80 x 1.30 x 0.35	=	<u>2.639 m³</u>
			12.557 m ³
		@ Rs.42.00/m ³	

Rs. 527.39

- 11/4.5 Providing 100mm thick soling with approved quality of stones including ramming consolidating and filling the interstices with stone aggregates complete.

$$\begin{aligned} 1 \times 3.80 \times 5.80 &= 22.04 \text{ m}^2 \\ 1 \times 5.80 \times 1.30 &= \frac{7.54 \text{ m}^2}{29.58 \text{ m}^2} \\ &\text{@ Rs.108.00/m}^2 \end{aligned}$$

Rs. 3194.64

- 12/4.7 Providing cement concrete floor 65mm thick in proportion (ii) 1:3:6 (1-cement, 3-sand, 6-stone aggregates) to the proper level and slope including ramming and curing complete as directed.

$$\begin{aligned} \text{Qty. vide item No. - 11/4.5} &= 29.58 \text{ m}^2 \\ &\text{@ Rs.187.00/m}^2 \end{aligned}$$

Rs. 5946.60

- 13/5.9 Providing corrugated galvanized iron sheet roofing fixed with galvanized iron J or L hooks, bolts and nuts, 8mm diameter. With bitumen and GI limpet washers or with GI limpet washers filled with white lead complete excluding the cost of purlins, rafters and trusses.

$$\begin{aligned} 2 \times 6.60 \times 2.65 &= 34.98 \text{ m}^2 \\ 1 \times 6.60 \times 1.75 &= \frac{11.55 \text{ m}^2}{46.53 \text{ m}^2} \\ &\text{@ Rs.430.00/m}^2 \end{aligned}$$

Rs. 20007.90

- 14/7.1 Providing dressed and rebated wood works in frame of doors and other similar works, framed and fitted in position with nails, spikes, nuts, bolts etc as required and directed complete.

$$\begin{aligned} \text{Door } 4 \times 2.10 \times 0.10 \times 0.075 &= 0.063 \text{ m}^3 \\ 2 \times 1.40 \times 0.10 \times 0.075 &= \frac{0.021 \text{ m}^3}{0.084 \text{ m}^3} \\ &\text{@ Rs.16636.00/m}^3 \end{aligned}$$

Rs. 1397.42

- 15/6.9 Providing steel casement windows, ventilators and
(b) clerestory windows as per IS specification (in ground floor) including fitting and fixing in position with lugs (100mm x 16mm x 3.15mm) embedded in cement concrete blocks 15cm x 10cm x 10cm of mix 1:3:6 including providing and fixing handles, bolting device, locking arrangements etc. as required complete.

$$\begin{array}{rcl} 4 \times 1.20 \times 1.50 & = & 7.20 \text{ m}^2 \\ 1 \times 1.00 \times 1.50 & = & \underline{3.00 \text{ m}^2} \\ & & 10.20 \text{ m}^2 \end{array}$$

@ Rs.975.00/m²

Rs. 9945.00

- (d) Qty. vide item No. 15/6.9 = 10.20 m²

@ Rs.308.00/m²

Rs. 456.00

- 16/9.1 Providing and fixing glass panes, ordinary quality,
(b) embedded in putty and fixed with nails etc. complete (for wooden doors and windows).

$$\begin{array}{rcl} \text{Window} & 4 \times 1.20 \times 1.50 & = 7.20 \text{ m}^2 \\ & 2 \times 1.00 \times 1.50 & = \underline{8.00 \text{ m}^2} \\ & & 10.20 \text{ m}^2 \end{array}$$

@ Rs.626.00/m²

Rs. 6385.20

- 17/4.1 Providing 12mm thick cement plaster including cleaning
(b) (ii) the surface and curing complete as directed.

Walling -

$$\text{Vide item No. 8/3.9} = 50.36 \times 2 = 100.72 \text{ m}^2$$

$$\text{Flooring} \quad 1 \times 4.00 \times 6.00 = 24.00 \text{ m}^2$$

$$1 \times 1.50 \times 6.00 = 9.00 \text{ m}^2$$

$$1 \times 14.00 \times 0.60 = 8.40 \text{ m}^2$$

$$1 \times 5.00 \times 0.45 = 2.25 \text{ m}^2$$

$$2 \times 4.00 \times 0.15 = 1.20 \text{ m}^2$$

$$1 \times 4.00 \times 0.30 = \underline{1.20 \text{ m}^2}$$

$$146.77 \text{ m}^2$$

@ Rs.95.00/ m²

Rs. 13943.15

- 18/5.4 (a) Providing 3mm thick plywood ceiling fixed with 1st class local wood/pine wood beading 50mm x 12mm on wooden frames @ 120cm c/c both ways including supplying of nails etc. plywood ceiling fixed complete.

$$1 \times 6.00 \times 4.00 = 24.00 \text{ m}^2$$

$$@ \text{Rs.}198.00/\text{m}^2$$

Rs. 4752.00

- 19/10.22 Applying ready mixed priming coat of approved brand & quality as per specifications complete as directed.

$$\begin{array}{ll} \text{Door} & 2 \times 1.20 \times 2.10 \times 2.60 = 13.104 \text{ m}^2 \\ \text{Ceiling} & 1 \times 6.00 \times 4.00 = 24.000 \text{ m}^2 \\ & \underline{37.104 \text{ m}^2} \\ & @ \text{Rs.}18.00/\text{m}^2 \end{array}$$

Rs. 667.87

$$\begin{array}{ll} \text{Window} & 4 \times 1.20 \times 1.50 \times \frac{2}{3} = 4.80 \text{ m}^2 \\ & 2 \times 1.00 \times 1.50 \times \frac{2}{3} = 2.00 \text{ m}^2 \\ & \underline{6.80 \text{ m}^2} \\ & @ \text{Rs.}17.00/\text{m}^2 \end{array}$$

Rs. 115.60

- 20/10.12 Painting with best quality synthetic enamel with approved make and brand including smoothening the surface by sand papering etc. & using approved putty on the surface, if necessary, complete as directed.

$$\begin{array}{ll} \text{Door} & 2 \times 1.20 \times 2.10 \times 2.60 = 13.104 \text{ m}^2 \\ \text{Window} & 4 \times 1.20 \times 1.50 \times \frac{2}{3} = 4.800 \text{ m}^2 \\ & 2 \times 1.00 \times 1.50 \times \frac{2}{3} = 2.000 \text{ m}^2 \\ \text{Ceiling} & 1 \times 6.00 \times 4.00 = 24.000 \text{ m}^2 \\ & \underline{43.904 \text{ m}^2} \\ & @ \text{Rs.}77.00/\text{m}^2 \end{array}$$

Rs. 3380.60

21/10.7	Distemping with dry distemper 2 (two) coats of required shade to give an even shade to new works including priming coat etc. Walling vide item No = $8/3.9 = 50.36 \text{ m}^2$ $50.36 \times 2 = 100.72 \text{ m}^2$ @ Rs.33.00/ m^2	Rs. 3323.76
22/10.14 (b)	Roof painting with red/green paint including brushing with wire brush and cleaning complete as directed. Qty. vide item No. $13/5.9 = 46.53 \times 1\frac{1}{2} = 67.795 \text{ m}^2$ @ Rs.67.00/ m^2	Rs. 4676.26
23/13.15	Providing drain (open surface) with bed and wall thickness of 100mm finished with cement plaster 1:3 (1) 150mm x 150mm. $1 \times 26.15 = 26.15 \text{ Rm}$ $1 \times 24.40 = \underline{24.40 \text{ Rm}}$ 50.55 Rm @ Rs.216.00/Rm TOTAL :	<u>Rs. 10918.8</u> Rs.200002.69

Say Rs.2,00,000.00

(Rupees Two lakhs) only.