# **DETAILED PROJECT REPORT**

- 1. WAH PYRHUT2. KYRTEM3. LIAR LAKHIAT
- 4. MYNKSI5.KHLIEH MYNI

## **INTEGRATED WATERSHED MANAGEMENT PROJECT**

## JH - IWMP - VI

2011-2012

## **C& RD BLOCK**

JAINTIA HILLS DISTRICT

## MEGHALAYA

## **LOCATION MAP**



## **SUMMARY OF THE PROJECT.**

Name of the State	:-	Meghalaya						
Name of the District	:-	Jaintia Hills						
Name of the C & RD Block	:-	Thadlaskein						
Name of the Project	:-	Jaintia Hills – IWMP-VI	aintia Hills – IWMP-VI					
Total Geographical Area	:-	<b>1670</b> Ha.						
Total Treatment Area	:-	4000 Ha						
Total Project Cost	:-	600 Lakhs						
Project Duration	:-	5 Years						
Name of the Micro Watershed	:-	(i)Liar Lakhiat – Lumlakhiat	(ii) Mynksi – Lapangap, Shaibnai, Pdengtaloo					
With Name of the Villages		(iii) Wah Pyrhut - Umladang	(iv) Khlieh Myni – Sohphoh, Larnai					
		(v) Kyrtem – Rakabah, Nongrim Bambthon	g					

**Project Implementing Agency** :- Soil & Water Conservation Territorial Division, Jowai.

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## **CHAPTER I**

## **INTRODUCTION AND BACKGROUND**

### CHAPTER I INTRODUCTION AND BACKGROUND

#### 1.1 Project Background:

The JH-VI IWMP is derived from the C&RD Block (Thadlaskein C&RD Block) falls in the Jaintia Hills District. There are 5 Nos of Micro Watershed in cluster and 9 Nos of villages. They are : (i).Liar Lakhiat - Lumlakhiat (ii). Mynksi – Lapangap, Shiabnai, Pdengtalu (iii). Wah Pyrhut – Umladang(iv) Khlieh Myni – Sohphoh, Larnai (v). Kyrtem – Rakabah, Nongrim Bambthong. All the 5 Nos of Micro Watershed drained by the Mynriang & Mynkhen River flowing from West to East.

#### **1.2 Micro Watershed Information:**

The micro-watershed code is (1)Liarlakhiat 3B2A2b1e(2)Mynksi 3B2A2b1g,(3)Wah Pyrhut – 3B2A6b2k 4)Khliehmynni – 3B2A6a2c, (5)Kyrtem – 3B2A6b3g alf as codified by the North East Space Application Centre (NESAC). The total area of the micro-watershed is 4670 Ha. with 4000 hectares to be treated under the Integrated Watershed Management Programme (IWMP).

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

The micro-watersheds falls under the High Priority category as per the prioritization of watersheds by the North East Space Application Centre (NESAC). The general topography of the area is an undulating offen covered with grassy blanks of enormous size accordingly dotted with pine trees individually or in small groups. The ground is generally gentle sloping with slopes varying between 10 percent to 60 percent. It is only near the tributaries with Mynriang River that the ground becomes comparatively steeper based on the elevation, the land can be divided into three physiographic units (i) Intermediate plateau with gradient above 33 percent slope (2) Lower plateau with gradient ranges from 15 to 33 percent slope (3) Valley rolling, undulating almost flat gradient ranging from 1 to 15 percent slope. The area is mainly drained by two Rivers <u>Mynriang</u> & Mynkhen. There are lot of scope for land development, agro-forestry, agro-horticulture for increasing the livelihood and agricultural product and also to enhance the ground water table in the watershed area.

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

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

i. MGNREGS iii. Total Sanitation Campaign (TSC) iii. Swarnjayanti Gram Swarozgar Yojana (SGSY ) iv. Indira Awas Yojana (IAY) **CHAPTER II** 

**BASIC INFORMATION OF THE PROJECT AREA** 

## CHAPTER II

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

#### 2.1 Location:

The project area under report is located in the catchment of Mynriang and Mynkhen river according to the Survey of India toposheet No.  $83\frac{C}{6}$ , it is situated between north Latitude  $25^{\circ}$ .33 and  $25^{\circ}$ .30' and East Longitude  $92^{\circ}$ .07' and  $92^{\circ}$ .30'. The project area is falls within the Thadlaskein C&RD Block of Jaintia Hills District and it is about 40 km from Jowai the Head Quarter of the Jaintia Hills District and is spread over 9 villages (i) Sohphoh (ii) Larnai (iii) Umladang (vi) Rakabah (v) Bambthong (vi) Liarlakhiat (vii) Lapangap (viii) Pdengtalu (ix) Shiabna<u>i</u>. The total area of JH-IWMP is about 4548 ha, out of which 4000 Ha is proposed for treatment under different Soil & Water Conservation activities. At present the area is connected partly by metalled road and partly by Kacha road.

#### 2.2 Physiography:

The area is feather in shape. The Hills ranges rise to the Maximum altitude of 1200 mts above sea level. The lowest point in the area is situated above the bank of Mynriang & Mynkhen River at an elevation of 600 mts above the sea level. The general topography of the area is an undulating offen covered with grassy blanks of enormous size accordingly dotted with pine trees individually or in small groups. The ground is generally gentle sloping with slopes varying between 10 percent to 60 percent. It is only near the tributaries with Mynriang & Mynkhen River that the ground becomes comparatively steeper based on the elevation, the land can be divided into three physiographic units (i) Intermediate plateau with gradient above 33 percent slope (2) Lower plateau with gradient ranges from 15 to 33 percent slope (3) Valley rolling, undulating almost flat gradient ranging from 1 to 15 percent slope. The area is mainly drained by two rivers Mynriang and Mynkhen River. The over all drainage pattern is excessive and normal.

#### Table 2.1: Physiographic details

Elevation (metres)	Slope Range (%)	Order of watershed Sub/Micro- watershed	Major streams	Topography
800 – 1320	0 – 74%	Wah Pyrhut, Liar Mynksi, Liar lakhiat, Khlieh Myni, Kyrtem	Mynriang & Mynkhen	Undulating Topography

- **2.3 Drainage:** The major stream draining the micro-watershed are the Mynriang and Mynkhen river which is a 4<sup>th</sup> order stream flowing from west to east direction. The slopes of the micro-watershed are dissected by numerous small tributaries flowing to the Mynriang & Mynkhen river.
- 2.4 Soil: The most common texture of the Soil in the Project is reddish loam to Sandy Loam with top humus layer is about 4cm deep. The depth of Soil generally varies between 80cm and 180cm, excessively drained, fine soil having loamy surface with moderate erosion hazard. Chemically the Soils are acidic in nature (ph value 6 and below) low in Nitrogen and Phosphorous and medium in Potassium content.

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

1	2	3	4	5	6	7	8	9	
SI.	Name of States	Name of District	Name of	Causa	Types of	Area affected	Run-off	Average soil loss	
No.	Name of States	Name of District	Projects	Cause	erosion	(ha)	(mm/year)	(Tonnes/ha/year)	
1	Meghalaya	Jaintia Hills	JH-IWMP-VI	Water erosion					
					Chaot				
				a	Sheet	4000	4.400 0000	10.5 – 32.5	
				b	Rill	4000	1400 - 2200		
				C	Gully				
				Sub total		4000	1400 – 2200v	10.5 - 32.5	
				Wind erosion		NA	NA	NA	

2.5 Climate: The JH-IWMP-I is located in the Hills of Northern slopes 800-1320 mts altitude from the mean Sea level of Agro-Climatic Sub-zone. From November to March the weather is dry, nights is cold with the onset of South Western Monsoon the atmospheric temperature and humidity start rising. The mean temperature varies between maximum of 24.80°C and minimum of 8.5°C and humidity is varies between 94.20 and 55.30. the Maximum and annual rainfall for 5 yeas are 3180.6 mm and 2895.20 mm respectively. The average rainfall has been about 1215.16mm.

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			
		Name of the	Area (in	Name of the Districts	Name of the Nar	Name of the	Major soil types		Major soil types		Average rainfall in	Major crops	
SI. No. N	Name of State	Agro-climatic zone	ha)		Projects	a) Type	b) Area (ha)	years average)	a) Name	b)Area (ha)			
	Meghalaya	Hills of Northern slopes 600 - 1200	4670	Jaintia Hills	JH-IWMP-VI	Sandy loan to Sandy Clay loam	4000 ha	1215.16mm	Paddy Maize Ginger vegetable	768 227 250 163			

**2.6 Agriculture:** Agriculture is the primary occupation of the people of the area. The people mostly cultivated in rainfed areas The cultivated rainfed areas varies vary from 0.5 to 1.0 Ha per family, The principal agricultural crops grown are paddy, maize, ginger, and vegetables. The farmer also grow horticulture like orange, jack fruit, mango, pears, peach, plum, etc in their homestead garden which contribute to their income.

#### Table 2.4: Crop yield and production

Crons	Area	Average Yield	Total Production (Qtl.)
crops	(ha)	(Qtl) per ha.	
Paddy	768	25	19200
Maize	227	20	4540
Ginger	250	40	10000
Vegetables	163	30	4890

**2.7 Natural Vegetation:**-The catchment has large coverage of natural grassland often created as a result of past jhuming. Though the intensity of cattle grazing and felling of pine trees is not too heavy, there is no scientific range management and grazing takes place. In the project area, predominantly of Pinus khasiya are found with sprinkling miscellaneous forest. The common species are:-

- Pinus Kesiya (Diengkseh).
- Quercus Griffithii (Diengsai).
- Toana Ciliata (Dieng Poma)
- Schima Wallichi (Diengngan).
- Castanospis Spesies (Diengsning).
- Gmelina Arborea (Dieng Lophiang)
- Betula Anoides (Diengling).

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- Michelia Champaca (Dieng rhi/ Dieng Champa)
- Docyma Hookeriana (Dieng Sohphoh).
- Emblica Officinalis (Dieng Soh mylleng).

**2.8 Socio-Economic Profile:** Socio- Economic Survey was conducted in all the 9 villages of the project area. A simple proforma was designed to collect information. The project area is in habitat by pnar population who are mainly dependent on agriculture of their livelihood.

Table showing the population, sex, agri-workers and occupation of 6 villages of JH-IWMP-vi(2011-2012)

SI	Villages	No.of	Total		Sex			Agri-	Literacy		Occupation
No.		family	Population				1	workers			-
				Male	Female	Boys	Girls		Male	Female	
				А	А	М	М				
1.	Umladang	242	1142	401	374	170	197	119	104	139	
2.	Rakabah	97	498	125	152	120	101	89	56	60	
3.	Nongrim Bambthong	155	849	250	257	169	173	131	127	139	
4.	Sohphoh	130	665	154	165	181	165	100	20	17	
5.	Larnai	165	1028	261	299	237	231	114	128	144	
6.	Lapangap	289	1672	379	415	419	459	168	229	262	
7.	Lumlakhiat	81	436	106	103	103	124	64	81	96	
8.	Pdengtalu	24	123	30	27	21	45	24	3	4	
9.	Shiabnai	31	129	30	38	27	34	31	8	16	
	Total	1214	6542	1736	1830	1447	1529	840	756	877	

<u>Socio- Economic Condition:-</u> The Socio Economic set up of the people in the project area is very poor. The average annual income is about Rs. 18,000/-year/ household, since the prime occupation of the people is Agriculture (Mono- agriculture).

#### Infrastructure facilities :

- 2.1.0 *Roads:* All the villages within the Project Area are connected partly by metalled road and partly by Kacha road.
- 2.1.1 School: there are 17 nos of LPS and 4 nos of UP Schools within the Project Area.
- 2.1.2 *Electricity :* Connections have been provided but some villages are yet to have electricity.
- 2.1.3 *Health :* There is no Community Health Centre and no Animal Husbandry Health centre in the project areas.
- 2.1.4 *Water Supply :* Drinking water supply have been provided by the drinking well, during lean season the entire population has to depend on springs available in the area as the supply is not sufficient to meet the daily requirement.
- 2.1.5 *Market :* There is a weekly market held once in a week at lawpynsin However, the main market where the people sell their produce is at law musiang Jowai.

#### Table 2.5: Infrastructure Status:

1	2		3	4				
Name of District	Name of Project		Parameters:		Status			
Jaintia Hills	Jaintia Hills VI	(i)	No. of villages connected to the main road by an all-weather road.		6 out of 9 villages			
		(ii)	No. of village provided with electricity		Ally	villages		
		(iii)	No. of households without access to drinking water			Nil		
		(iv)	No. of educational institutions:	(P)	(UP)	(HS)	(VI)	
			Primary (P)/ Upper primary (S) / Higher Secondary (HS)/ Vocational					
			nstitution (VI)		4 Nos			
		(v)	No. of village with access to Primary Health Centre Nil			Nil		
		(vi)	No. of village with access Veterinary Dispensary	Nil				
		(vii)	No. of village with access Post Office	1 out of 9 villages				
		(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		(S)	(PA)	(0)	
			(e.g. Union (U)/ Society (S)/ Private agency (PA)/ Others (O))		Nil	Nil		
		(xiii)	No. of villages with access to Anganwadi Centres	All Villages				
		(xiv)	Any other facilities with no. of villages (please specify)					

2.9 Livestock: there are only 4 kinds of livestock farming being farmed in the area viz. Cattle, Goat, Piggery & Poultry

Villages	Type of Animal						
Ũ	Poultry	Cattle	Piggery	Goat			
Umladang	1065	152	160	-			
Rakabah	422	68	56	18			
Nongrim Bambthong	1241	107	111	15			
Sohphoh	922	-	114	-			
Larnai	579	5	105	-			
Lapangap	521	239	148	112			
Lumlakhiat	262	71	89	20			
Pdengtalu	195	61	27	2			
Chiabnai	107	18	7	-			
Total:-	5314	721	817	167			

#### Table 2.6: Existing livestock population

#### 2.10 Land Ownership:

The land may be classified into

- Private land (Ri-Kynti)
- Community land (Ri Raid land) and
- Clan land (Ri Kur land)

Land use :- Valley bottom land are put under permanent cultivation. Sloppy land are put under shifting cultivation.

Farming system:- A traditional type of farming;

Cropping pattern:- single crop of paddy is practiced.

#### Table 2.7 Land holding:

1	2	3	4	5	6		
Name of District	e of District Name of projects Types of Farmer No. of bouseholds No. of BPL	No. of households	No. of BPL		Land holding (l	ha)	
		Types of Farmer	Types of Farmer No. of households	household	Irrigated	Rainfed	Total
Jaintia Hills	Jaintia Hills VI	(i) Large	60				1183.7 Ha
		(ii) Small	165	554			
		(iii) Marginal	306				
		(iv) Landless	683				
		Sub - Total	1214				

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

1	2	3			4			5				
	Name of the Projects	CPR Particulars		Tota Area owned	Area available for treatment (ha)							
Name of District Name of			Pvt. Person	Govt. (specify deptt)	PRI	Any other (Pl.specify)		Pvt.	Govt. (specif	PRI	Any other (Pl. specify)	
						Vil.	. church n	Person	y Deptt.)			,,
						com						
Jaintia Hills	JH-IWMP-VI	(i) Wasteland/ degraded land	50 ha	-	-	1027ha	-	50ha	-	977ha	50ha	
		(ii) Pastures	-	-	-	-	-	-	-	-	-	
		(iii) Orchards	-	-	-	-	-	-	-	640ha	-	
		(iv) Village woodlot	-	-	-	150ha	-	-	-	150ha	-	
		(v) Forest (degraded)	-	-	-	292ha	-	-	-	292ha	-	
		(vi) Village Ponds/ Tanks	-	-	-	5ha	-	-	-	5ha	-	
		(vii) Community Buildings	-	-	-	-	-	-	-	-	-	
		(viii) Weekly Markets	-	-	-	-	-	-	-	-	-	
		(ix) Permanent Markets	-	-	-	-	-	-	-	-	-	
		(x) Temples/ Places of worship	-	-	-	-	-	-	-	-	-	
		(xi) Others (Pl. specify)	-	-	-	-	-	-	-	-	-	

#### 2.11 Land use and land cover :

The different present land use of JH-IWMP- VI is as follows.

Land Use		<u>Area ( in Ha)</u>
1. Agricultural land – crop land- kharif crop	-	233 ha
2. Built – up area (Rural)	-	380 ha
3. Tree clad area (closed)	-	2508 ha
4. Tree clad area (open)	-	442 ha
5. Waste land – scrub land- open scrub	-	1077 ha
6. Water Bodies	-	30 ha
	-	4670 ha

Note:- Land Use based on LISS III image 2005-2006

#### 2.12 PROBLEM OF THE AREA

The following are the major problem face by the people & community in the project area.

(All these problem have been identified through the PRA exercise and during the process of details survey of preparation of DPR)

- (a) <u>Scarcity of drinking water</u>:- Almost all the village are situated in the Ridge area and elevated zone at higher elevation area of the watershed. As result, due to biotic interference and increase population the water resources nearby has dried up and polluted, causing scarcity of water especially during the months of November to April.
- (b) Low agricultural productivity:- Due to unscientific way of cultivation, eg, lack of soil and water conservation practices, irrigation facilities, proper use of manure and fertilizers, use of insecticides and pesticides, traditional method of cultivation (Cultivation along the slope/Bun and Jhum cultivation), etc. It has resulted in low yield in almost all types of Agricultural and Horticultural crops.
- (c) <u>Poverty</u>:- Many of the farmers in project area are only marginal land holders where a few numbers of people own a majority of land in the areas. The people in the areas so far depends on agriculture only as main source of livelihood. Others sources of livelihood like Poultry, Piggery, Sericulture, Horticulture, Bee Keeping, Fishery, etc are still lacking behind in many respect in project area.
- (d) <u>Social Institution</u>:- Due to low literacy level in all the villages in project area, social institution like SHG, Users Groups, NGOs are very less in the project area. The existing groups who are available at present are also not functioning properly or progress as expected.
- (e) Lack of Infrastructure:- The villages in the project area suffer lack of infrastructure facilities in many respect like (i) Marketing. (ii) Education. (iii) Transportation & Communication. (iv) Agricultural & Veterinary Services etc.

**CHAPTER III** 

## **PROJECT PLANNING & INSTITUTION BUILDING**

### **CHAPTER III**

### **PROJECT PLANNING & INSTITUTION BUILDING**

#### 3.1 Scientific Planning

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

Details of Scientific Planning and inputs in IWMP Projects:::

1	2	3
Total no of		No. of project in
Project	Scientific criteria/ input used	which Scientific
sanctioned		criteria were used
	Cluster approach	2
	Whether technical back – stopping for the project has been arranged ? if yes, mention	Yes,NIRD(NERC)
	the name of the institute.	Guwahati
	Base line survey	Yes – 7 Nos
7Nos	Hydro- geological survey	No
	Contour mapping	Yes – 7 Nos
	Participatory net planning (PNP)	Yes
	Remote sensing data – especially Soil / Crop/ Run-off cover	Yes – 7 Nos
	Ridge to valley treatment	Yes – 3 Nos
	Online IT connectivity between	No
	(i) Project and DRDA cell/ ZP	Yes – 7 Nos
	(ii) DRDA and SLNA	No
	(iii) SLNA and DoLR	No
	Availability of GIS layers	No
	1 Cadastral map	No
	2 Village boundaries	Yes – 7 Nos
	3 Drainage	Yes – 7 Nos
	4 Soil ( Soil Nutrient status	Yes – 7 Nos

1	2	3
	5 Land use	Yes – 7 Nos
	6 .Ground water Status	Yes – 7 Nos
	7. Watershed boundaries	Yes – 7 Nos
	8. Activity	No
	Crop Simulation modle <sup>#</sup>	No
	Integrated coupled analyzer/ near infrared visible spectroscopy/ medium spectroscopy	No
	for high speed soil nutrient analyses	
	Normalized difference vegetation index (NDVI) #	Yes
	Weather station	Yes
	(B) Inputs	No
	1. Bio-Pesticides	Yes – 7 Nos
	2. organic manure	Yes – 7 Nos
	3. Vermicompost	Yes – 7 Nos
	4. Bio- fertilizer	Yes – 7 Nos
	5. Water saving device	Yes
	6.Mechanized Tools / Implement	Yes – 7 Nos
	7. Bio- Fencing	Yes – 7 Nos
	8. Nutrient budgeting	No
	9. Automatic water level recorders & Sediment samplers.	Yes – 1 No
	Any other (please specify)	No

#### **3.2 Project Implementing Agency:**

The PIA is the Soil & Water Conservation Territorial Division, Jowai Jaintia 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	
Name			
of	Name of Project	Details of PIA	
District			
		1. Type of Organisation #	Government Agency
		2. Name of organization	Soil & Water Conservation
laintia		3. designation & Address	Shri. D. Shallam
Hills	JH-VI	4. Telephone	9436119264
11113		5.Fax	03652223858
		6.Email	<u>soildivjowai@gmail.com</u>

#### **3.3 Institution Building**

#### i) Watershed Committee (WC)

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

Names of the District	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#
Jaintia		Lington Mukhim		Chairman	М		ST									I	
Hills		P. Rapthap		Secv	м		ST									B.F	
Distric		Auguster Lamare		Members	M		ST										
-t		Probis Suting		-do-	M		ST									VI	
		Plinder Lamare		-do-	F		ST									IX	
		Kishon Kharsahnoh		-do-	м		ST									11	
	IWMP lainti	Ebennigo Lyngdoh		-do-	M		ST									XII	
		Molibon Suting	`	-do-	F		ST									IX	
	111113 - VI	Kampher Mynsong		-do-	М		ST									111	
		Nores Mynsong		-do-	М		ST									II	
		Subor Susngi		-do-	F		ST									I	
		Brut Suting		-do-	М		ST									I	
		Paia Mukhim		-do-	М		ST									III	
		Biang Satein		-do-	F		ST									III	
		Marso Suting		-do-	М		ST									Ι	
		Discipline		-do-	F		ST									111	
		Story Dkhar		-do-	М		ST									VIII	
		Deimonmi Lyngdoh		-do-	М		ST									Х	
		Pynskhem Synshar		-do-	F		ST									VIII	
		Nisonphot Tang		-do-	М		ST									XII	
		Paia Suchiang		-do-	М		ST									Х	
		Sian Papiah		-do-	F		ST									VII	
		Michael Dkhar		-do-	М		ST									VII	
		Kharis Nongrum		-do-	М		ST									VIII	
		Roimon Siangshai		-do-	F		ST									IX	
		Taisir Phira		-do-	М		ST									XII	
		Erius Suting		-do-	М		ST									Х	
		Blastar Sumen		-do-	F		ST									VIII	
Α.	PNP and	PRA		В.	Planr	ning							C.		Maint	enance of A	Accounts

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

- D. Signing of cheques and making payments
- G. Verification & Measurement
- I. Social Audit

Supervision of construction activities Record of labour employed Cost Estimation

F.

H. Record of labour employedJ. Any other (please specify).

Ε.

#### 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 Area:

1	2			3			4				5		6			
Name of District	Name of project	То	tal no. of r	egistered	d SHGs	No.	of men	nbers		No.	of SC/ST catego	՝ in each ry	N	o. of BP cate	L in each gory	
		With only Men	With only Women	With both	Total	Categories	М	F	Total	М	F	Total	М	F	Total	
Jaintia	JH –IWMP-		8		8	(i) Landless	12	8	20	12	8	20	12	8	20	
Hills	VI					(ii) SF	-	76	76	-	76	76	-	76	76	
						(iii) MF	-	-	-	-	-	-	-	-	-	
						(iv) LF	-	-	-	-	-	-	-	-	-	

#### iii) User Group

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

1	2		3				4				5			6	
Name of	Name of		Total no.	of UGs		No	o. of Mei	mbers		No. o	f SC/ ST	in each	No.	of BPL in	each ,
District	Projects		T	T					-		categor	У		category	·
	Jaintia	Men	Women	both	Total	Categories	Μ	F	Total	М	F	Total	М	F	Total
Jaintia	Hills –VI					(i) Landless									
Hills						(ii) SF									
						(iii) MF									
						(iv) LF									
Total															

#### Table 3.4: User Group Details

**CHAPTER IV** 

**PROJECT ACTIVITIES** 

## **CHAPTER IV**

## **PROJECT ACTIVITIES**

#### 4.1 Preparatory Phase:

i) Entry Point Activities (EPA)

1	2	3	4
Names of Project	Amount earmarked for EPA	Entry Point Activities planned	Geographical Location
JH– IWMP-VI	24.00	Drinking Water Supply to Villages 5 Nos Washing Platform 3Nos	Latitude 25 <sup>°</sup> .33 and 25 <sup>°</sup> .30' Longitude 92 <sup>°</sup> .07' and 92 <sup>°</sup> .30'

#### ii) Other activities of Preparatory Phase:

1	2	3	4	5	6	7
Initiation of village level institution	Capacity building	IEC activities	Baseline survey	Hydro- geological survey	Identifying technical support agencies	Resource agree-ments
1(One) Watershed Committee	4 nos.	2 nos.	Participatory Rural Appraisals	N.A	Done	Done

#### 4.2 Watershed Works Phase:

#### 4.2.1 Activities related to surface water resources in the project area:

1	2		3			4 Proposed Project										
-			Pre Pro	ject						Р	roposed Project					
Name of			Area		ļ	Augmentatior str	n/ repair of ex ructures	xisting		Construction	of new structures			Tota	l target	
Projects	Type of structures	No	irrigat ed (ha)	Storage capacity	No	Area to be treated (ha)	Storage capacity	Estimate d cost (in lakhs)	No	Area to be treated (ha)	Storage capacity (per unit)	Estimate d cost (in lakhs)	No	Area to be treated (ha)	Storage capacity (m <sup>3</sup> )	Estimat ed cost
	(i) Tank	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	(ii) Pond	-	-	-	-	-	-	-	66 Nos	264	20148	23.456	66 Nos.	264	20148	23.456
	(iii) Lake	-	-	-	-	-	-	-	-	-	-	-	-		-	-
JH – IWMP VI	(iv) Check Dam	-	-	_	-	-	-	-	52 Nos	364	576.16	31.2	52 Nos.	364	576.16	31.2
	(v) Percolation Tank	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	(vi) Diversion Channel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	(vii) Any others (please specify)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total					-	-	-	-	118 Nos	628	20724.16	54.656	118	628	20724.16	54.656

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

1	2		3					4				
		Pr	e-project				Prop	osed target				
Names of projects	Type of structures	No.	Area irrigated	Augmen rec	tation/ repair of the struct	of existing ures	Constr	uction of nev structure	v recharging s	Total target		
			(IId)	No.	Area to be irrigated (ha)	Estimated cost	No.	Area to be irrigated (ha)	Estimated cost	Area to be irrigated (ha)	Estimated cost	
JH -IWMP-VI	(i)Open wells						18	270	7.5			
	(ii)Bore wells									-		
	(iii)Any others (Pl. specify)		Nil		Nil			-		Nil		
	Total for the project	or the project					18	270	7.5			

4.2.3 Activities executed by User Groups in the Project Areas.

Presently there are no User Group under the Project area and they are yet to be formed, trained and organized for different related activities.

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

There about 6 Nos of existing SHG's under different villages falling within the Project area of JH-IWMP-VI. However, many of them have not received sufficient training in matter related to Account & Records keeping and also in different income generating and livelihood activities. Under the Project more nos of SHG's will be promoted and different training and financial assistance will be given through the Project Fund to h elp them to improve their income generating capacity.

1		2	3	3		4	ļ	5	(	6	7	7	8	3	9	Ð	1	0	11		12
							La	nd									No	n	Any oth	ner	Total estimated
	Rida	e area	Draina	ge line					Crop d	emons	Past	ture	Votor	inary	Fich	erv	INC	011-			cost
Names of	trea	tment	treat	ment	Nurse	ry raising					develo	nment	serv	ices	develo	nment	conver	ntional	(pleas	se	
projects		eine							Trat	tions	401010	pinent			acreio	pinent	ene	rgy			
1							develo	pment										•••	specif	y)	
										L				<b>.</b>							
	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	
-		۲		_																	
Ъ-Ч	На	lakl	S.	akh			ъ	khs		hs			lits	ths	ts	JS					
Σ	3.75	151	a no	96		I	4 H	3 la	8 H	lak	-	-	un	olak	Uni	lakl	-	-	ı		
2	853	37.C	293	5.7			20	40.£	33	1.9			150	37.5	40	64					
<del>'</del>	1	18		6				7													

#### **4.2.6** Details of engineering structures in watershed works:

1	2	2 3 Type of treatment				4				5			
		יַד	pe of treatme	nt		Type of land	1			Targ	et		
Project	Name of structures		(ii) Drainage	(iii) Land			(iii) Others	No. of units	Estin	nated cost (	Rs. in	lakh)	Expected month &
		(i) Ridge area (R)	line (D)	Dev. (L)	(i) Pri-vate	(ii) Com- munity	(pl. specify)	(No./ cum./ rmt)	Μ	w	о	т	year of completion (mm/yyyy)
	Check Dam		D		Р			42 Nos	10.08	15.12		25.20	03/2015
	Protection wall		D					168 Nos.	15.456	23.184		38.64	03/2015
JH- IWMP -VI	Small Dugout Pond		D					40 Nos	2.56	3.84		6.40	03/2015
	Water Harvesting Structure		D					26 Nos	6.8224	10.2336		17.056	03/2015

#### 4.2.7 Details of activities connected with vegetative cover in watershed works:

1	2	3			4			5			
		Type of treatment			Type of land			Target			
Project	Name of structure/ work	(i) Ridge area (R)	(ii) Drainage line (D)	(iii) Land dev. (L)	(i) Private	(ii) Commu nity	(iii) Others (pl. specify)	Area (ha)	No. of plants	Estimated cost (Rs. in lakh)	Expected month & year of comple-tion (mm/ yyyy)
	Afforestation	R						525	157500	53.025	03/2016
JH-IWMP- VI	Strip Plantation	R						155	3875	6.6123	03/2016
	Improvement of Degraded Forest	R						1240	124000	44.64	03/2016
	Agro- Horticulture with Citrus Fruit							640	64000	55.04	03/2016

# 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.

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

1	2		3		4		
			Type of la	and	Target		
Project	Name of activity@	(i) Private	(ii) Community	(iii) Others (landless)	Estimated cost (Rs. in lakh)	Expected month & year of completion (mm/yyyy)	
	Agro-Horticulture	Р	С		55.04	03/2015	
	Contour Bunding	Р	С		17.49	03/2015	
	Terracing	Р	С		40.8	03/2015	
JH-IWMP-VI	Afforestation	Р	С		53.025	03/2015	
	Strip Plantation	Р	С		6.6123	03/2015	
	Peripheral Bunding		С		11.8627	03/2015	
	Crop Demonstration	Р	С		1.9	03/2015	

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

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

Details of activities in the CPRs in the project areas:

1	2	3	4			5	
					Та	rget	
Names of projects	Name(s) of the villages	CPR particulars	Activity proposed	Target area under the activity (ha)	Estimated expenditure (Rs.)	Expected no. of beneficia-ries	Estimated contri- bution to WDF (Rs.)
	1.Sohphoh						
	2.Larnai						
	3.Bambthong						
	4.Rakabah	1. Drinking Water Resources	1. Drinking				
JH-IWMP-	5. Umladang	2. Com Forest	Well 2. Afforestation	466 ha	10.0	4025	2 22 175
VI	6. Lumlakhiat	Land	3. Improvement		42.8	4925	2.23475
	7. Pdeintalu		of degraded village forest				
	8. Shiabnai						

# **CHAPTER V**

# **PROJECT PHASING & BUDGETING**

#### CHAPTER V - PROJECT PHASING & BUDGETING ACTION PLAN OF JAINTIA HILLS I.W.M.P – VI UNDER THADLASKEIN C&RD BLOCK 2011-2012

#### Name of District – Jaintia Hills No of Village- 9 Nos Treatable Area = 4000 Ha 9 TOTAL 1st Year 2nd Year 3rd Year 4th Year 5th Year Physical Physical Physical Physical Physical Physical villag Activities Fin Fin Fin Fin Fin Fin Ha. Nos. Rmt. Nos. Rmt. Ha. Nos. Rmt. Ha. Nos. Rmt. Ha. Nos. Rmt. Ha. Ha. Nos. Rmt. es 10% 2% 1 Admistrative Cost 60.00 12.00 5% 30.00 3% 18.00 ш Monitoring & Evaluation 2% 12.00 0.5% 3.00 1% 6.00 0.5% 3.00 Sub-Total of I & II 12% 72 2.5 15 36 3.50% 6% 21 Preparatory Phase ш EPA i. Drinking Well/Spring tapped chamber ii. Washing Platform 1.50% 3 9.00 3 9 iii. Drinking water supply 2.50% 5 15.00 5 15 iv. v DPR 1% 6.00 1% 6.00 Institutional & 1% Capacity Building 5% 30.00 6.00 2% 12.00 1% 6.00 1% 6.00 Sub-Total of III 10% 60.00 36.00 12.00 6.00 6.00 IV Work Phase Arable Land Treatment Α. Vegetative Barriers 223.2 16.74 10.00 0.75 Contour Bunds 233.20 17.49 Graded Bunds Loose Boulder Contour Bunds 40.80 Bench Terrace 204.00 21.5121 4.3 150.1705 30.03 32.3174 6.4635 Box Terrace Half Moon Terrace Field Bunding Peripheral Bunding 46.108 23725.4 11.86 10.7725 4052 2.03 16.5255 12884 6.442 918.81 6790 3.395 Crop Demonstration 38 1.9 0.3 1.6 6 32 Kitchen Garden Improvement of Existing Paddy Fields 205.442 8.834 205.442 8.834 Crop Demonstration Agro-Horticulture 640 55.04 640 8.32 640 29.44 640 17.28 Horticulture Development Sub-Total of A 1366.75 135.9 678.2846 14.9 627.338 93.09 61.1274 27.8885 Non-Arable Land в. Improvement of Degraded Forest/Existing Natural Forest 1240 44.64 1240 8.68 1240 23.56 1240 12.4 525 53.03 8.93 28.88 525 15.225 Afforestation 525 525 Agro-Forestry Nursery Establishment Avenue Plantation Strip Plantation 155 6.612 155 1.14 155 3.627 155 1.8445 Sub-Total of B 1920 104.3 1920 18.7 56.06 29.4695

C.	Drainage Line Treatment																					
	Farm Ponds/Dug out Ponds	73	40		6.4			6.5	7		1.12	66.5	33		5.28							
	Water Harvesting structures	57.25	26		17.06			5.5	2		1.31	50.45	22		14.44	1.3	2		1.312			
	Nallah Bund																					
	Earthen Embankment																					
	Check Dams, H/W Dam,																					
	Diversion Dam/Irrigation Dam	118.5	42		25.2			20	7		4.2	92.5	33		19.8	6	2		1.2			
	Loose Boulder Check Dam																					
	Gabion Protection /																					
	Retaining Wall																					
	Stone Masonry/Protection																					
	wall/Retaining wall	439	168		38.64			36	16		3.68	316	121		27.83	87	31		7.13			
	Bamboo wall, Bamboo spurs																					
	Drip Irrigation																					
	Water Tank/Perrcolation Tank	25.5		32692	8.5			1		3846	1.00	22		21154	5.5	2.5		7692	2.00			
	Run off Disposal Channel																					
	Earthen Irrigation Channel																					
	CC Irrigation Channel																					
	Aqueduct																			$ \square $		
	Sub-Total of C	713.25			95.8			69			11.3	547.45			72.85	96.8			11.642	$ \square $		
D.	Livelihood																			$\vdash$		
	Tailoring	122 units			12.2			8 units			0.8	47 units			4.7	67 units			6.7	$\vdash$	<u> </u>	
	Carpentry/Blacksmith	200 units			10			17 units			0.85	61 units			3.05	122 units			6.10		<u> </u>	
	Agriculture Implements																			$\vdash$	<u> </u>	
	Vegetable Production/Kitchen																					
	Gardening	822 units			20.55			124 units			3.1	215 units			5.375	483 units			12.075	⊢−−	—	
	Apiculture																			$\vdash$	$\rightarrow$	
	Masonry Hollow Block Making																			$\vdash$	$\rightarrow$	
	Piggery																			$\vdash$	$\rightarrow$	
	Poultry																			$\vdash$	——	
	Vermi-composting																			┢──┤──	<u> </u>	+
	Composting	500 units			2.5							225 units			1.125	2/5 units			1.375	┢──┼──	<u> </u>	+
	Weaving	35 units			8.75			5 units			1.25	15 units			3.75	15 units			3.75	├──┼──	<u> </u>	
	Stabilized Mud Block Making																			$\vdash$	<u> </u>	
	Grocery Shop/Food Stalls		$\left  \right $																	<b>├──┼</b> ──	+	+
	Medicinal Practiceor																			1		
	Regional Practioner		$\left  \right $				+ +		<u> </u>											i		+
	Pisciculture Soop Making		$\left  \right $				+ +													i – † –		
	Sub Total of D	1670 unite	-		54			154 units			6	563 units			18	062 unite			30		+	
F	Production Systems	1079 01112	$\mathbf{}$		- 34			134 01113			0	July and			10	502 units			30		+	
£.	Poultry/Piggery	150	$\left  \right $		37.5		+	18 units			45	34 units			85	98 units		$\left  \right $	24.5	<del>_</del>	+-	+
	Poultry Farming	100			51.5		+	20 01110				an ann a			0.0	Joanna			24.2	i	+	
	Piggery Farming																			i — † —	+	
	Food Processing																			i — † —	+	
		I	i 1	I	1	I I	1 1	1	1	I I	I I	1	I	ı I		I I	I	i I		4 I -	1	1 1

																			 <u> </u>
	Floriculture	ļļ	 			 		 	l		l	ļ			 	L	l	L	 <b>.</b>
	Pisciculture (Including Supply																		
	of Fingerlings)																		
	Betle nut Soaking Tank																		
	Canes and Handicrafts																		
	Rural Godowns/Cold Storage																		
	Cableway Taxing																		
	Apiculture/Bee Keeping																		
	Grocery Shop																		
	Vermi-composting																		
	Milch Cow Rearing	21 units	8.4							8 units			3.2	13 units		5.2			
	Saloon/Beauty Parlour																		
	Mushroom Cultivation																		
	Floriculture																		
	Goat Rearing																		
	Weaving and Handloom																		
	Stabilized Mud Block Making																		
	Carpentry/Blacksmithy																		
	Duckery																		
	Sericulture																		
	Soap Making																		
	Rice Mill Operation																		
	Improved Fuel																		
	Making (fire cakes etc.)																		
	Integrated Farming System																		
	Basket Making																		
	Kitchen Gardening																		
	Miscillaneous																		
	Enterprises (SHG)	47 units	14.1				5 units		1.5	21 units			6.3	21 units		6.3			
	Sub-Total of E	218 units	60				23 units		6	63 units			18	132 units		36			
	Sub-Total of IV (A.B.C.D.E)	4000 ha	132	6%		36	2667.2846		27	1174.788			42	157.9274		27			
V	Consolidation Phase	3%	18																18.00
	Sub-Total of V																		
	Grand Total (I+II+III+IV+V)	100%	600	6%		36	14%		84	50%			300	27%		162	3%		18

Dr. D.I. Kjam J. Dr. D.I. Kjam S. K. A.H. (A.A.U.) J. Sc. & A.H. (A.A.U.) DAE (Obs & Gynus) I.V R.1 DAE (Obs & Gynus) DAE (Obs & MVC-043 Rest. No :- MVC-043 125.21

Bantstant Soil & Water Conservation Officer Cash Crop Division, Activity detroited bidiles (1) Division Jowal. Bott of the Crop Challen Meghalaya Rural Development Society (LIPH- IFAD) DMU- Jaintia Hills District Jowai, Meghalaya

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# MICRO WATERSHED

YEARWISE	CENTRAL SHARE (Rs. In Lakhs)		STATE SHARE (Rs. In Lakhs)	TOTAL (Rs. In Lakh)
1 <sup>st</sup> year	32.40	-	3.60	- 36.00
2 <sup>nd</sup> year	75.60	-	8.40	- 84.00
3 <sup>rd</sup> year	270.00	-	30.00	- 300.00
4 <sup>th</sup> year	145.80	-	16.20	- 162.00
5 <sup>th</sup> year	16.20	-	1.80	- 18.00
Total =	540.00	-	60.00	- 600.00

#### VILLAGE TREATMENT PLAN OF WAH PYRHUT MICRO WATERSHED JAINTIA HILLS-IWMP-VI (2011-2012)

Name of Village=Umladang

No.of Village 1No

Treatable Area = 500 Ha

Micro Watershed:- Wah Pyrhut

2			TOTAL I				İst	Year		2	nd Yea	r			3rd 1	lear			4th	Year	-		5th	Year	
3	Activities		Physi	cal		ŀ	hvsic	al		Phy	sical		_	Ph	vsical	!		Pi	hvsical				Physica	ıl	
4		Ha.	I. Nos. Rmt. Fin Ha. N			Nos.	Rmt.	Fin	Ha.	Nos.	Rmt.	Fin	Ha.	Nos.	Rmt.	Fin	Ha.	Nos.	Rmt.	Fin	Ha.	Nos.	Rmt.	Fin	
5 1	Admistrative Cost	10%	1% 7.5						2%			1.5	5%			3.75	3%			2.25					
5 II	Monitoring & Evaluation	2%			1.5					0.50%			0.38	1%			0.75	0.50%			0.375				
7	Sub-Total of I & II	12%			9					2.50%			1.88	6%			4.5	3.50%			2.625				
8 III	Preparatory Phase																								
9	EPA																								
	i. Drinking Well/Spring tapped																								
0	chamber																								
1	ii. Washing Platform	4%	1		3.00		1		3.00																
2	iii.																								
3	iv.																								
4	v.																								
5	DPR	1%			0.75	1%			0.75		1														
6	Institutional & Capacity Buildin	5%			3.75	1%			0.75	2%			1.5	1%			0.75	1%			0.75				
7	Sub-Total of III	10%			7.50				4.50				1.5				0.75				0.75				
8 IV	Work Phase																								
9 <b>A</b> .	Arable Land Treatment																								
0	Vegetative Barriers																								
1	Contour Bunds	20			1.5									20			1.5								
2	Graded Bunds																								
3	Loose Boulder Contour Bunds																								
4	Bench Terrace	20			4									20			4								
5	Box Terrace																								
6	Half Moon Terrace																								
7	Field Bunding																								
8	Peripheral Bunding	7		2636.2	1.318					3.823		1529	0.76	1.985		794	0.937	1.192		313	0.1565				
		10 units												10 units											
9	Crop Demonstration	(2ha)			0.5									(2ha)			0.5								
0	Kitchen Garden																								
	Improvement of Existing Paddy					Í	Î																		
1	Fields	44			1.892									44			1.892								
2	Crop Demonstration					Ĩ	Ï																		
3	Agro-Horticulture	90			7.74					90			1.17				4.14				2.43				
4	Horticulture Development																								
5	Sub-Total of A	183			16.95					93.823			1.93	87.985			12.43	1.192			2.5865				
5 B.	Non-Arable Land																								
	Improvement of Degraded																								
7	Forest/Existing Natural Forest	120			4.32					120			0.84	120			2.28	120			1.2				
8	Afforestation	80			8.08					80			1.36	80			4.4	80			2.32				
9	Agro-Forestry																								
0	Nursery Establishment																								
1	Avenue Plantation																								
2	Strip Plantation	15			0.64					15			0.11	15			0.351	15			0.1785				
3	Sub-Total of B	215			13.04					215			2.31				7.031				3.6985				

С.	Drainage Line Treatment		t		†	tt	1	†			t	+		i1	t			t	†			t		
	Farm Ponds/Dug out Ponds	6	8		1.28				1.5	2		0.32	4.5	6		0.96								
	Water Harvesting structures	14	5		3.28		1						14	5		3.28								
	Nallah Bund																							
	Earthen Embankment																							
	Check Dams, H/W Dam,																							
	Diversion Dam/Irrigation Dam	6	2		1.2				3	1		0.6	3	1		0.6								
	Loose Boulder Check Dam																							
	Gabion Protection /																							
	Retaining Wall																							
	Stone Masonry/Protection																							
	wall/Retaining wall	75	25		5.75				6	2		0.46	45	15		3.45	24	8		1.84				
	Bamboo wall, Bamboo spurs																							
	Drip Irrigation																							
	Water Tank/Perrcolation Tank																							
	Run off Disposal Channel	1		1923	0.5												1	1923		0.5				
	Earthen Irrigation Channel																							
	CC Irrigation Channel																							
	Aqueduct																							
	Sub-Total of C	102			12.01				10.5			1.38	66.5			8.29	25			2.34				
D.	Livelihood																							
	Tailoring	5 units			0.5				1 units			0.1	2 units			0.2								
	Carpentry/Blacksmith	40 units			2				4 units			0.2	16 units			0.8	20 units			1				
	Agriculture Implements																							
	Vegetable Production/Kitchen																							
	Gardening	120 units			3				8 units			0.2	25 Units			0.625	87 units			2.175				
	Apiculture																							
	Masonry Hollow Block Making																							
	Piggery																							
	Poultry																							
	Vermi-composting																							
	Composting	50 units			0.25								25 units			0.125	25 units			0.125				
	Weaving	4 units			1				1 unit			0.25	2 units			0.5	1 unit			0.25			_	
	Stabilized Mud Block Making																							
	Grocery Shop/Food Stalls																							
	Promotion of Indigenous																							
	Medicinal Practioner																							
	Pisciculture																							
	Soap Making				ļ																			
	Sub-Total of D	219 units			6.75				14 units			0.75	70 units			2.25	135 units			3.75				
Ε.	Production Systems		<u> </u>																			$\rightarrow$		
	Poultry/Piggery	20 units	<u> </u>		5				3 units			0.75	9 units			2.25	8 units			2		$\rightarrow$		
	Poultry Farming																					-+		
	Piggery Farming						_															$\rightarrow$		
	Food Processing		<u> </u>																			$\rightarrow$		
	Floriculture	L	I		ļ	└──└──		I		L	L				L			I			L			

5																		
	Pisciculture (Including Supply																	
7	of Fingerlings)																	
В	Betle nut Soaking Tank																	
9	Canes and Handicrafts																	
D	Rural Godowns/Cold Storage																	
1	Cableway Taxing																	
2	Apiculture/Bee Keeping																	
3	Grocery Shop																	
4	Vermi-composting																	
5	Milch Cow Rearing	4 units	1.6										4 units		1.6			
6	Saloon/Beauty Parlour																	
7	Mushroom Cultivation																	
8	Floriculture																	
9	Goat Rearing																	
0	Weaving and Handloom																	
1	Stabilized Mud Block Making																	
2	Carpentry/Blacksmithy																	
3	Duckery																	
4	Sericulture																	
5	Soap Making																	
6	Rice Mill Operation																	
	Improved Fuel Making (fire																	
7	cakes etc.)																	
8	Integrated Farming System																	
9	Basket Making																	
0	Kitchen Gardening																	
1	Miscillaneous Enterprises (SHG	3 units	0.9										3 units		0.9			
2	Sub-Total of E	27 units	7.5				3 units		0.75	9 units		2.25			4.5			
3	Sub-Total of IV (A,B,C,D,E)	500 ha	16.5	6%		4.5	319.323		3.38	154.485		5.25	26.192		3.375			
4 V	Consolidation Phase		2.25													3%		2.25
5	Sub-Total of V		2.25													3%		2.25
6	Grand Total (I+II+III+IV+V)	100%	75	6%		4.5	14%		10.5	50%		37.5	27%		20.25	3%		4.5
7																		

Dr.D.L. Kjam Dr.D.L. Kjam S.V. Sc. & A.H. (A.A.U.) P.G.N.D.A.S. (Obs & Gynus) LV R.I P.G.N.D.A.S. (Obs & Gynus) LV R.I Rossi. No :- MVC-043

Retard Soll & Welter Conservation Officer Cash Crop Division, Schroubes Hittles (T) Dive Bott cash Crock Christon Meghalaya Rural Development Society alaya Rural Development Sort (LIPH-IFAD) DMU- Jaintia Hills District Jowai, Meghalaya

45

# WAH PYRHUT MICRO WATERSHED

Total =	67.50	-	7.50	-	75.00
5 <sup>th</sup> year	2.025	-	0.225	-	2.25
4 <sup>th</sup> year	18.225	-	2.025	-	20.25
3 <sup>rd</sup> year	33.75	-	3.75	-	37.50
2 <sup>nd</sup> year	9.45	-	1.05	-	10.50
1 <sup>st</sup> year	4.50	-	0.45	-	4.50
	90%		5%		
	(Rs. In Lakhs)		(Rs. In Lakhs)		(Rs. In Lakh)
YEARWISE	<b>CENTRAL SHARE</b>		STATE SHARE		TOTAL

Deputy Commissioner, Jeimia Hills Diskisch

Divisional Soil & Water Conservation Officer Jaintia Hills (T) Division Jowal

#### VILLAGE TREATMENT PLAN OF KYRTEM MICRO WATERSHED JAINTIA HILLS-IWMP-VI (2011-2012)

Name of Village= Rakabah, Nongrim Bambthong

No.of Village 1 No

Treatable Area = 1000Ha

D	VIVIE	WI WIICKUWATERSHED														I										L
4				1	TOTAL			lst	Year		21	nd Yea	7			3rd 1	lear			4th Y	ear			5th	Year	
5		Activities		Physi	ical		P	hysic	al		Phys	ical		77.	Phy	ysical	!	171	Pk	iysical			1	hysicc	ıl	
6			Ha.	Nos.	Rmt.	Fin	Ha.	Nos.	Rmt.	rm	Ha.	Nos.	Rmt.	FIN	Ha.	Nos.	Rmt.	Fin	Ha.	Nos.	Rmt.	FIN	Ha.	Nos.	Rmt.	FIN
7	1	Admistrative Cost	10%			15					2%			3	5%			7.5	3%			4.5				
в	Ш	Monitoring & Evaluation	2%			3					0.50%			0.75	1%			1.5	0.50%			0.75				
9		Sub-Total of I & II	12%			18					2.50%			3.75	6%			9	3.50%			5.25				
D	Ш	Preparatory Phase																								
1		EPA																								
Ι		i. Drinking Well/Spring tapped																						i		
2		chamber																								
3		ii. Washing Platform	2%	1		3.00		1		3.00																
4		iii. Drinking water supply	2%	1		3.00		1		3.00																
5		iv.																								
6		v.																								
7		DPR	1%			1.5	1%			1.5																
В		Institutional & Capacity	5%			7.5	1%			1.5	2%			3.00	1%			1.50	1%			1.50				
9		Sub-Total of III	10%			15.00				9.00				3.00				1.50				1.50				
D	IV	Work Phase																						$ \longrightarrow $		
1	Α.	Arable Land Treatment																						$ \longrightarrow $		
2		Vegetative Barriers																						<u> </u>		
3		Contour Bunds	60			4.5									60			4.5						<u> </u>		
4		Graded Bunds																						i		
5		Loose Boulder Contour Bunds																						<u> </u>		
6		Bench Terrace	70			14					21.5121			4.3	38.1705			7.634	10.3174			2.0635		i		
7		Box Terrace																						i	!	$\vdash$
B		Half Moon Terrace																						i	!	<b> </b>
9		Field Bunding																						i]	!	$\vdash$
D		Peripheral Bunding	22		9293.80004	4.647									22		9293.8	4.647						<u> </u>		<b>⊢</b>
1		Crop Demonstration	6			0.3					6			0.3												<b>├</b> ──┤
2		Kitchen Garden																						ił		┝──┤
		Improvement of Existing Paddy																						i		
3		Fields	38			1.634									38			1.634						<u> </u>		<b>⊢</b> +
4		Crop Demonstration	1000			10.70					100			2.00				7.00				4.00		<u> </u>		$\vdash$
2		Agro-Horticulture	1000			15.76					100			2.08				7.50				4.52		<del> </del>		<b>⊢</b> +
D 7		Furth Tetral of A	25.6			20.04	<u> </u>				107 5101			6.60	159 1705			25.70	10 2174			6 2025		i		<b>├</b> ──┤
<u>.</u>	P	Sub-Total of A	220			30.04					167.5121			0.00	156.1705			25.78	10.5174			0.3635		<del> </del>		<b>├</b> ──┤
•	D.	Improvement of Degraded																								<u> </u>
		Forest/Existing Natural Forest	300			0.8					300			21				57				3		i		
0		Afforestation	130	$\left  - \right $		13 13					130			2.1				7.15				3 77		-+		<b>├</b> ──┼
1		Agro-Eorestry	100			10.10					150			2.21				1.22				9.11		-+		<u> </u>
2		Nursery Establishment																						-+		<u> </u>
3		Avenue Plantation														-								-+		<u> </u>
4		Strip Plantation	35			1,493					35			0.28				0.819				0.4165		-+		<u> </u>
5		Sub-Total of B	465			25 42					465			4.57				13 67				7.1865		-+		
1								⊥	L	∟ł						<u>+</u>	<u></u>		L				L		/	+

5																							 	 
C.	Drainage Line Treatment																							
3	Farm Ponds/Dug out Ponds	20	10		1.6									20	10		1.6							
9	Water Harvesting structures	18	6		3.936									18	6		3.936							
)	Nallah Bund																							
L	Earthen Embankment																							
	Check Dams, H/W Dam,																							
2	Diversion Dam/Irrigation Dam	12.5	5		3.00									12.5	5		3.00							
3	Loose Boulder Check Dam																							
	Gabion Protection /																							
1	Retaining Wall																							
	Stone Masonry/Protection																							
5	wall/Retaining wall	120	40		9.20									72	24		5.52	48	16		3.68			
5	Bamboo wall, Bamboo spurs																							
7	Drip Irrigation																							1
5	Water Tank/Perrcolation Tank	0.5		7000	2.00									0.5		7600	2.00						 	
	Run off Disposal Channel	8.5		7692	2.00									8.5		7692	2.00						 	-
, ,	Contraction Channel																						 	
1	According to Channel																						 	-
2	Aqueduci	170			10.74									101			10.00	40			2.69		 	
	Sub-rotal of C	1/9			19.74									151			10.00	40			3.08		 	-
+ D.	Tailarian	OF unlike			2.5									10			1.00	15 units			1.5		 	
-	Compositor/Placksmith	25 units			2.5									10 units			1.00	15 units			1.5		 	
7	Carpentry/Blacksmith	ou units			5									15 Units			0.75	45 Units			2.25		 	
	Vegetable Production/Kitchen																						 	
2	Gardening	20 units			5					60 units			15	60 units			15	80 units			2			
2	Aniculture	20 01110			-					oo ames			1.2	oo amaa			1.2	oo amta			-		 	1
1	Masonny Hollow Block Making																						 	 1
1	Piggery																						 	1
2	Poulto																						 	1
2	Vermi-composting																						 	 1
1	Composting	100 units			0.5													100 units			0.5			1
5	Weaving	10 units			2.5									5 units			1.25	5 units			1.25			 1
5	Stabilized Mud Block Making	20 0												5 0			2.25	5 0			2.25		 	 1
7	Grocery Shop/Food Stalls																						 	
	Promotion of Indigenous																						 	
3	Medicinal Practioner																							
9	Pisciculture																						 	
)	Soap Making																							1
1	Sub-Total of D	385 units			13.5								1.5				4.5				7.5			 1
2 E.	Production Systems																							1
3	Poultry/Piggery	40 units			10									4 units			1	36 units			9			 1
4	Poultry Farming																							1
5	Piggery Farming																							
			++	+	+	+	+	+	+	+	⊢	+			+					ł		++	 +	 ÷-

6	Food Processing		1														. 1	
7	Floriculture																	
	Pisciculture (Including Supply																	
8	of Fingerlings)																.	
19	Betle nut Soaking Tank																	
0	Canes and Handicrafts																	
1	Rural Godowns/Cold Storage																	
2	Cableway Taxing																	
3	Apiculture/Bee Keeping																	
4	Grocery Shop																	
5	Vermi-composting																	
6	Milch Cow Rearing	5 units	2							5 units		2						
7	Saloon/Beauty Parlour																	
8	Mushroom Cultivation																	
9	Floriculture																	
i0	Goat Rearing																	
1	Weaving and Handloom																	
2	Stabilized Mud Block Making																	
i3	Carpentry/Blacksmithy																	
i4	Duckery																	
i5	Sericulture																	
i6	Soap Making																	
7	Rice Mill Operation																	
	Improved Fuel Making (fire																	
8	cakes etc.)																.	
i9	Integrated Farming System																	
0	Basket Making																	
1	Kitchen Gardening																	
2	Miscillaneous Enterprises	10 units	3				5 units		1.5	5 units		1.5						
3	Sub-Total of E	55 units	15						1.5			4.5			9			
4	Sub-Total of IV (A,B,C,D,E)	1000 ha	33	6%		9	652.5121		6.75	289.1705		10.5	58.3174		6.75			
'5 V	Consolidation Phase	3%	4.5													3%		4.5
6	Sub-Total of V	3%	4.5													3%		4.5
7	Grand Total (I+II+III+IV+V)	100%	150	6%		9	14%		21	50%		75	27%		40.5	3%		4.5
8																		

Dr. D. I. Kjam Dr. D. I. Kjam (A. A. U.) E. V. S.C. & A.H. (A. A.U.) I.V. R.I. PGINIDAR (Obs. & Gynus) I.V. R.I. ROSH, No :- MYC-043 ROSH, No :- MYC-043

mistan Both Streamer Conservation Officer Cash Crop Division, Jowal. Boll of the Clock Charles Statenthe Hitles (F) Div Meghalaya Rural Development Society elaya Rural Development and (LIPH- 1FAD) DMU- Jaintia Hills District Jowai. Meghalaya

### KYRTEM MICRO WATERSHED

YEARWISE	CENTRAL SHARE		STATE SHARE		TOTAL	
	(Rs. In Lakhs)		(Rs. In Lakhs)		(Rs. In Lakh)	
	90%		10%			
1 <sup>st</sup> year	8.10	-	0.90	-	9.00	
2 <sup>nd</sup> year	18.90	-	2.10	-	21.00	
3 <sup>rd</sup> year	67.50	-	7.50	-	75.00	
4 <sup>th</sup> year	36.45	-	4.05	-	40.50	
5 <sup>th</sup> year	4.05	-	0.45	-	4.5	
Total	= 135.00	-	15.00	-	150.00	

Deputy Committeelonar, Jemila Hills Disuscu

Divisional Soil & Water Conservation Officer Jaintia Hills (T) Division Jowal VILLAGE TREATMENT PLAN OF LIAR LAKHIAT MICRO WATERSHED JAINTIA HILLS-IWMP-VI (2011-2012)

Name of Village=Lumlakhiat

No.of Village 1No

Treatable Area = 500 Ha

Micro Watershed:- Liar lakhiat

2 <u>11</u>			TOTAL																							
3				1	TOTAL			lst	Year		2	nd Yea	r			3rd 1	ear			4th 1	lear			5th	Year	
4		Activities		Phys	ical	Fire	P	hysic	al	Fin	Phy.	sical		Fin	Ph	ysical		Fin	Pl	nysical		Fin	1	Physico	ıl	Fin
5			Ha.	Nos.	Rmt.	1.111	Ha.	Nos.	Rmt.	1.111	Ha.	Nos.	Rmt.	1.111	Ha.	Nos.	Rmt.	1.111	Ha.	Nos.	Rmt.	1.111	Ha.	Nos.	Rmt.	1.111
6	I	Admistrative Cost	10%			7.5					2%			1.5	5%			3.75	3%			2.25				
7	Ш	Monitoring & Evaluation	2%			1.5					0.50%			0.38	1%			0.75	0.50%			0.375				
8		Sub-Total of I & II	12%			9					2.50%			1.88	6%			4.5	3.50%			2.625				
9	Ш	Preparatory Phase																								
0		EPA																								
		i. Drinking Well/Spring tapped																								
1		chamber																								
2		ii. Washing Platform	4%	1		3.00		1		3.00																
3		iii.																								
4		iv.																								
5		۷.																								
6		DPR	1%			0.75	1%			0.75																
7		Institutional & Capacity Buildin	5%			3.75	1%			0.75	2%			1.5	1%			0.75	1%			0.75				
8		Sub-Total of III	10%			7.50				4.50				1.5				0.75				0.75				
9	IV	Work Phase																								
0	Α.	Arable Land Treatment																								
1		Vegetative Barriers																								
2		Contour Bunds	13.2			0.99									13.2			0.99								
3		Graded Bunds																								
4		Loose Boulder Contour Bunds																								
5		Bench Terrace	10.00	1		2													10			2.00				
6		Box Terrace																								
7		Half Moon Terrace																								
8		Field Bunding																								
9		Peripheral Bunding	5.358		1274.6	0.637					1.5075		277.6	0.14	2.3005		768	0.384	1.55		229	0.1145				
		Crop Demonstration	10 units												10 units											
0			(2ha)			0.5									(2ha)			0.5								
1		Kitchen Garden																								
		Improvement of Existing Paddy																								
2		Fields	17.442			0.75									17.442			0.75								
3		Crop Demonstration																								
4		Agro-Horticulture	90			7.74					90			1.17				4.14				2.43				
5		Horticulture Development																								
6		Sub-Total of A	138			12.62					91.5075			1.31	34.9425			6.764	11.55			4.5445				
7	в.	Non-Arable Land																								
		Improvement of Degraded								7														7		
8		Forest/Existing Natural Forest	50			1.8					50			0.35				0.85				0.5				
9		Afforestation	105			10.61					105			1.79				5.775				3.045				
0		Agro-Forestry																								
1		Nursery Establishment																								
2		Avenue Plantation																								
3		Strip Plantation	45			1.92					45			0.33				1.053				0.5355				
4		Sub-Total of B	200			14.32					200			2.47				7.778				4.0805				

·			L			+	+			I			+	+	+	Ļ	+	<u></u>	+-	+	 	 	⊢I	<b>⊢</b>	
5	C.	Drainage Line Treatment																							J.
6		Farm Ponds/Dug out Ponds	30	5		0.8									30	5		0.8							L
7		Water Harvesting structures	12	3		1.968					4	1		0.65	8	2		1.318							j.
8		Nallah Bund																							j_
9		Earthen Embankment																							j.
		Check Dams, H/W Dam,																							l
0		Diversion Dam/Irrigation Dam	40	10		6					8	2		1.2	32	8		4.8							
1		Loose Boulder Check Dam																							ſ
2		Gabion Protection /Retaining																							Γ
		Stone Masonry/Protection																							Γ
3		wall/Retaining wall	69	23		5.29									69	23		5.29					i		
4		Bamboo wall, Bamboo spurs																							Γ
5		Drip Irrigation																							ſ
6		Water Tank/Perrcolation Tank																							t
7		Run off Disposal Channel	11		3846	1.00									11		3846	1.00							ſ
8		Earthen Irrigation Channel																							ſ
9		CC Irrigation Channel																							t
0		Aqueduct																						$ \longrightarrow $	t
1		Sub-Total of C	162			15.06					12			1.85	150			13.21							ſ
2	D.	Livelihood																							ſ
3		Tailoring	12 units			1.20					2 units			0.2	10 units			1.00							t
4		Carpentry/Blacksmith	30 units			1.5									20 units			1.00	10 units		 0.5			$ \longrightarrow $	t
5		Agriculture Implements																							F
		Vegetable Production/Kitchen																							t
6		Gardening	102 units			2.55					12 units			0.3					90 units		2.25		i		
7		Apiculture																							ſ
		Masonry Hollow Block Making																							ſ
°		Diagona																					i		ł
9		Paulta																					ił		ł
1		Versi competing																					ił		ł
1 		Compositing	50 .usits			0.05									EQ uniter			0.05					ił		ł
2		Composting	50 units			0.25					1			0.05	50 units			0.25	A		 1.00		i		ł
٥ 		Weaving Stabilized Mud Black Making	5 units			1.25					1 unit			0.25					4 units		 1.00		ił		ł
4		Stabilized Mud Block Making																					ił		ł
-		Bromotion of Indianness																			 		<u> </u>	ł	ł
c .		Modicinal Practice or																					i		
7		Dissigniture																			 		<u> </u>	ł	ł
<u>-</u>		Soop Making												+					$\vdash$				ł	ļ	ł
0		Sub Total of D	100 unite			6.75					15 upite			0.75	80 unite			2.25	104 unite		 2 75		<del> </del>	!	ł
0	F	Broduction Systems	199 UHICS			0.75	-	<u> </u>			15 UNITS			0.75	ou units	<u> </u>		2.20	104 Units		 3.75		<del> </del>	<i> </i>	ł
1	Ε.	Poulto/Piggeov	19 uite			4.5	-		<u> </u>		2 units			0.75	Supito	-		1.05	10 units		 25		ł	ļ	ł
1 2		Poulto Estaina	10 0115			4.0					5 units			0.75	Junits	<u> </u>		1.20	10 units		 2.3		<del> </del>	!	ł
2		Diggooy Farming					-							+		<u> </u>			$\vdash$				<del> </del>	!	ł
<u>ہ</u>		Food Processing					-	<u> </u>						+			<u> </u>		$\vdash$				<del> </del>	!	ł
4 5		Floriculture					-							+							 		<u> </u>		ł
_		Pissiculture (Including Supply					-							+		<u> </u>			$\vdash$				<del> </del>	ł	ł
6		of Fingerlings)																					i	1 1	
7		Potlo put Sopking Teak																			 		<u> </u>	ł	ł
<i>′</i>		bette nut soaking tank		L			Ļ	L								Ļ					 	 	i	<u>ا</u> ــــا	Ļ.

| Derie nur Soaking Talik     | ll   |   |   | Ļ   |  |  
   
   
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Canes and Handicrafts					
   
   
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| Rural Godowns/Cold Storage  |  |   |   |   |  |  
   
   
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| Cableway Taxing             |  |   |   |   |  |  
   
   
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| Apiculture/Bee Keeping      |  |   |   |   |  |  
   
   
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   |  |  |
| Grocery Shop                |  |   |   |   |  |  
   
   
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   |  |  |
| Vermi-composting            |  |   |   |   |  |  
   
   
   |  |  |  |  |   
   
  |  |   | | | | |
   |   |   |   |  |  |   |   
   |  |  |
| Milch Cow Rearing           | 3 units  |   | 1.2   |   |  |  
   
   
   |  |  |  |  |   
   
  | 1 units  |   | | | | |
   | 0.4   | 2 units   |   |  | 0.8  |   |   
   |  |  |
| Saloon/Beauty Parlour       |  |   |   |   |  |  
   
   
   |  |  |  |  |   
   
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   |  |  |
| Mushroom Cultivation        |  |   |   |   |  |  
   
   
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| Floriculture                |  |   |   |   |  |  
   
   
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   |  |  |
| Goat Rearing                |  |   |   |   |  |  
   
   
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   |   |   |   |  |  |   |   
   |  |  |
| Weaving and Handloom        |  |   |   |   |  |  
   
   
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| Stabilized Mud Block Making |  |   |   |   |  |  
   
   
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   |   |   |   |  |  |   |   
   |  |  |
| Carpentry/Blacksmithy       |  |   |   |   |  |  
   
   
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   |  |  |
| Duckery                     |  |   |   |   |  |  
   
   
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   |   |   |   |  |  |   |   
   |  |  |
| Sericulture                 |  |   |   |   |  |  
   
   
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   |   |   |   |  |  |   |   
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| Soap Making                 |  |   |   |   |  |  
   
   
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   |  |  |
| Rice Mill Operation         |  |   |   |   |  |  
   
   
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   |   |   |   |  |  |   |   
   |  |  |
| Improved Fuel Making (fire  |  |   |   |   |  |  
   
   
   |  |  |  |  |   
   
  |  |   | | | | |
   |   |   |   |  |  |   |   
   |  |  |
| cakes etc.)                 |  |   |   |   |  |  
   
   
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| Integrated Farming System   |  |   |   |   |  |  
   
   
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| Basket Making               |  |   |   |   |  |  
   
   
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   |   |   |   |  |  |   |   
   |  |  |
| Kitchen Gardening           |  |   |   |   |  |  
   
   
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   |   |   |   |  |  |   |   
   |  |  |
| Miscillaneous Enterprises   |  |   |   |   |  |  
   
   
   |  |  |  |  |   
   
  |  |   | | | | |
   |   |   |   |  |  |   |   
   |  |  |
| (SHG)                       | 6 units  |   | 1.8   |   |  |  
   
   
   |  |  |  |  |   
   
  | 2 units  |   | | | | |
   | 0.80  | 4 units   |   |  | 1.20   |   |   
   |  |  |
| Sub-Total of E              | 27 units   |   | 7.5   |   |  |  
   
   
   |  | 3 units  |  |  | 0.75  
   
  | 8 units  |   | | | | |
   | 2.25  | 16 units  |   |  | 4.50   |   |   
   |  |  |
| Sub-Total of IV (A,B,C,D,E) | 500 ha   |   | 16.5  | 6%  |  |  
   
   
   | 4.5  | 302.5075   |  |  | 3.38  
   
  | 184.5845   |   | | | | |
   | 5.25  | 10.55   |   |  | 3.375  |   |   
   |  |  |
| Consolidation Phase         |  |   | 2.25  |   |  |  
   
   
   |  |  |  |  |   
   
  |  |   | | | | |
   |   |   |   |  |  | 3%  |   
   |  | 2.25   |
| Sub-Total of V              |  |   | 2.25  |   |  |  
   
   
   |  |  |  |  |   
   
  |  |   | | | | |
   |   |   |   |  |  | 3%  |   
   |  | 2.25   |
| Grand Total (I+II+III+IV+V) | 100%   |   | 75.00   | 6%  |  |  
   
   
   | 4.50   | 14%  |  |  | 10 50   
   
  | 50%  |   | | | | | | | | | | | | | | | | | | | | | | |
   | 37 50   | 27%   |   |  | 20.25  | 3%  |   
   |  | 4.50   |
|                             | Canes and Handicrafts<br>Rural Godowns/Cold Storage<br>Cableway Taxing<br>Apiculture/Bee Keeping<br>Grocery Shop<br>Vermi-composting<br>Milch Cow Rearing<br>Saloon/Beauty Parlour<br>Mushroom Cultivation<br>Floriculture<br>Goat Rearing<br>Weaving and Handloom<br>Stabilized Mud Block Making<br>Carpentry/Blacksmithy<br>Duckery<br>Sericulture<br>Soap Making<br>Rice Mill Operation<br>Improved Fuel Making (fire<br>cakes etc.)<br>Integrated Farming System<br>Basket Making<br>Kitchen Gardening<br>Miscillaneous Enterprises<br>(SHG)<br>Sub-Total of IV<br>Consolidation Phase<br>Sub-Total of IV<br>Grand Total (I+II+III+IV+V) | Canes and Handicrafts         Rural Godowns/Cold Storage         Cableway Taxing         Apiculture/Bee Keeping         Grocery Shop         Vermi-composting         Milch Cow Rearing         Saloon/Beauty Parlour         Mushroom Cultivation         Floriculture         Goat Rearing         Weaving and Handloom         Stabilized Mud Block Making         Carpentry/Blacksmithy         Duckery         Sericulture         Soap Making         Rice Mill Operation         Improved Fuel Making (fire         cakes etc.)         Integrated Farming System         Basket Making         Kitchen Gardening         Miscillaneous Enterprises         (SHG)       6 units         Sub-Total of E       27 units         Sub-Total of IV (A,B,C,D,E)       500 ha         Consolidation Phase       Sub-Total of IV (A,B,C,D,E) | Canes and Handicrafts         Rural Godowns/Cold Storage         Cableway Taxing         Apiculture/Bee Keeping         Grocery Shop         Vermi-composting         Milch Cow Rearing         Saloon/Beauty Parlour         Mushroom Cultivation         Floriculture         Goat Rearing         Weaving and Handloom         Stabilized Mud Block Making         Carpentry/Blacksmithy         Duckery         Soap Making         Rice Mill Operation         Improved Fuel Making (fire         cakes etc.)         Integrated Farming System         Basket Making         Kitchen Gardening         Miscillaneous Enterprises         (SHG)       6 units         Sub-Total of E       27 units         Sub-Total of IV (A,B,C,D,E)       500 ha         Consolidation Phase       500 ha         Consolidation Phase       500 ha | Canes and Handicrafts       Rural Godowns/Cold Storage         Rural Godowns/Cold Storage | Canes and Handicrafts       Image: Canes and Handicrafts         Rural Godowns/Cold Storage       Image: Canes and Handicrafts         Cableway Taxing       Image: Canes and Handicrafts         Apiculture/Bee Keeping       Image: Canes and Handicrafts         Grocery Shop       Image: Canes and Handicrafts         Vermi-composting       Image: Canes and Handicrafts         Milch Cow Rearing       3 units         Saloon/Beauty Parlour       Image: Canes and Handicrafts         Mushroom Cultivation       Image: Canes and Handicrafts         Floriculture       Image: Canes and Handicrafts         Goat Rearing       Image: Canes and Handicrafts         Weaving and Handicom       Image: Canes and Handicrafts         Stabilized Mud Block Making       Image: Canes and Handicrafts         Carpentry/Blacksmithy       Image: Canes and Handicrafts         Duckery       Image: Canes and Handicrafts         Soap Making       Image: Canes and Handicrafts         Rice Mill Operation       Image: Canes and Handicrafts         Improved Fuel Making (fire cakes etc.)       Image: Canes and | Canes and Handicrafts       Image: Cableway Taxing         Rural Godowns/Cold Storage       Image: Cableway Taxing         Apiculture/Bee Keeping       Image: Cableway Taxing         Apiculture/Bee Keeping       Image: Cableway Taxing         Grocery Shop       Image: Cableway Taxing         Vermi-composting       Image: Cableway Taxing         Milch Cow Rearing       3 units         Saloon/Beauty Parlour       Image: Cableway Taxing         Mushroom Cultivation       Image: Cableway Taxing         Floriculture       Image: Cableway Taxing         Goat Rearing       Image: Cableway Taxing         Weaving and Handloom       Image: Carpentry/Blacksmithy         Duckery       Image: Carpentry/Blacksmithy         Soap Making       Image: Carpentry/Blacksmithy         Rice Mill Operation       Image: Carpentry/Blacksmithy         Improved Fuel Making (fire       Image: Carpentry/Blacksmithy         Image: Carpentry System       Image: Carpentry/Blacksmithy         Basket Making <td>Canes and Handicrafts       Image: Canes and Handicrafts         Rural Godowns/Cold Storage       Image: Canes and Handicrafts         Cableway Taxing       Image: Canes and Handicrafts         Apiculture/Bee Keeping       Image: Canes and Handicrafts         Grocery Shop       Image: Canes and Handicrafts         Vermi-composting       Image: Canes and Handicrafts         Milch Cow Rearing       3 units         Saloon/Beauty Parlour       Image: Canes and Handicrafts         Mushroom Cultivation       Image: Canes and Handicrafts         Floriculture       Image: Canes and Handicrafts         Goat Rearing       Image: Canes and Handicrafts         Weaving and Handicrafts       Image: Canes and Handicrafts         Stabilized Mud Block Making       Image: Canes and Handicrafts         Carpentry/Blacksmithy       Image: Canes and Handicrafts         Duckery       Image: Canes and Handicrafts         Sericulture       Image: Canes and Handicrafts         Soap Making       Image: Canes and Canes</td> <td>Canes and Handicrafts       Image: Canes and Handicrafts         Rural Godowns/Cold Storage       Image: Cold Storage         Cableway Taxing       Image: Cold Storage         Apiculture/Bee Keeping       Image: Cold Storage         Grocery Shop       Image: Cold Storage         Vermi-composting       Image: Cold Storage         Milch Cow Rearing       3 units         Saloon/Beauty Parlour       Image: Cold Storage         Mushroom Cultivation       Image: Cold Storage         Floriculture       Image: Cold Storage         Goat Rearing       Image: Cold Storage         Weaving and Handloom       Image: Cold Storage         Stabilized Mud Block Making       Image: Cold Storage         Carpentry/Blacksmithy       Image: Cold Storage         Duckery       Image: Cold Storage         Sericulture       Image: Cold Storage         Soap Making       Image: Cold Storage         Rice Mill Operation       Image: Cold Storage         Improved Fuel Making (fire       Image: Cold Storage         Cakes etc.)       Image: Cold Storage         Integrated Farming System       Image: Cold Storage         Basket Making       Image: Cold Storage         Kitchen Gardening       Image: Cold Storage         Miscil</td> <td>Canes and Handicrafts       Image: Canes and Handicrafts         Rural Godowns/Cold Storage       Image: Canes and Handicrafts         Cableway Taxing       Image: Canes and Handicrafts         Apiculture/Bee Keeping       Image: Canes and Handicrafts         Grocery Shop       Image: Canes and 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<td>Canes and Handicrafts       Image: Construction of the second secon</td> <td>Canes and Handicrafts       Image: Canes and Handicrafts         Rural Godowns/Cold Storage       Image: Canes and Handicrafts         Cableway Taxing       Image: Canes and Handicrafts         Apiculture/Bee Keeping       Image: Canes and Handicrafts         Grocery Shop       Image: Canes and Handicrafts         Vermi-composting       Image: Canes and Handicrafts         Milch Cow Rearing       3 units         Saloon/Beauty Parlour       Image: Canes and Handicom         Mushroom Cultivation       Image: Canes and Handicom         Floriculture       Image: Canes and Handicom         Goat Rearing       Image: Canes and Handicom         Stabilized Mud Block Making       Image: Canes and Handicom         Soap Making       Image: Canes and Handicom         Size Mill Operation       Image: Canes and Handicom         Improved Fuel Making (fire cakes etc.)       Image: Canes and Handicom         Integrated Farming System       Image: Canes and Handicom         Sub-Total of E       Z7 units       7.5       3 units         Sub-Total of F       Z7 units       7.5<td>Canes and Handicrafts       Image: Canes and Handicrafts         Rural Godowns/Cold Storage       Image: Canes and Handicrafts         Qabelway Taxing       Image: Canes and Handicrafts         Apiculture/Bee Keeping       Image: Canes and Handicrafts         Grocery Shop       Image: Canes and Handicrafts         Vermi-composting       Image: Canes and Handicrafts         Milch Cow Rearing       3 units         Saloon/Beauty Parlour       Image: Canes and Handicrafts         Mushroom Cultivation       Image: Canes and Handicrafts         Floriculture       Image: Canes and Handicrafts         Goat Rearing       Image: Canes and Handicrafts         Weaving and Handloom       Image: Canes and Handicrafts         Stabilized Mud Block Making       Image: Canes and Handicrafts         Carpentry/Blacksmithy       Image: Canes and 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Handicrafts         Improved Fuel Making (fire cakes etc.)       Image: Canes and Handicrafts         Integrated Farming System       Image: Canes and Handicrafts         Basket Making       Image: Canes and Handicrafts         Kitchen Gardening       Image: Canes and Handicrafts | Canes and Handicrafts       Image: Construction of the second secon | Canes and Handicrafts       Image: Canes and Handicrafts         Rural Godowns/Cold Storage       Image: Canes and Handicrafts         Cableway Taxing       Image: Canes and Handicrafts         Apiculture/Bee Keeping       Image: Canes and Handicrafts         Grocery Shop       Image: Canes and Handicrafts         Vermi-composting       Image: Canes and Handicrafts         Milch Cow Rearing       3 units         Saloon/Beauty Parlour       Image: Canes and Handicom         Mushroom Cultivation       Image: Canes and Handicom         Floriculture       Image: Canes and Handicom         Goat Rearing       Image: Canes and Handicom         Stabilized Mud Block Making       Image: Canes and Handicom         Soap Making       Image: Canes and Handicom         Size Mill Operation       Image: Canes and Handicom         Improved Fuel Making (fire cakes etc.)       Image: Canes and Handicom         Integrated Farming System       Image: Canes and Handicom         Sub-Total of E       Z7 units       7.5       3 units         Sub-Total of F       Z7 units       7.5 <td>Canes and Handicrafts       Image: Canes and Handicrafts         Rural Godowns/Cold Storage       Image: Canes and Handicrafts         Qabelway Taxing       Image: Canes and Handicrafts         Apiculture/Bee Keeping       Image: Canes and Handicrafts         Grocery Shop       Image: Canes and Handicrafts         Vermi-composting       Image: Canes and Handicrafts         Milch Cow Rearing       3 units         Saloon/Beauty Parlour       Image: Canes and Handicrafts         Mushroom Cultivation       Image: Canes and Handicrafts         Floriculture       Image: Canes and Handicrafts         Goat Rearing       Image: Canes and Handicrafts         Weaving and Handloom       Image: Canes and Handicrafts         Stabilized Mud Block Making       Image: Canes and Handicrafts         Carpentry/Blacksmithy       Image: Canes and Handicrafts         Duckery       Image: Canes and Handicrafts         Sericulture       Image: Canes and Handicrafts         Soap Making       Image: Canes and Handicrafts         Rice Mill Operation       Image: Canes and Handicrafts         Improved Fuel Making (fire cakes etc.)       Image: Canes and Handicrafts         Integrated Farming System       Image: Canes and Handicrafts         Basket Making       Image: Canes and Handicrafts</td> <td>Description         Description         Description</td> <td>Canes and Handicrafts         Image: Construct of the second /td> <td>Description         Description         Description</td> <td>Description         Description         Description</td> <td>District Schlading (Init)         Initial Condenses         Initian Condenses         Initianonononon</td> <td>Link Solution         Link Sol</td> <td>Canes and Handicrafts         Image: Construction of the second seco</td> <td>Canes and Handicrafts         Num         Num</td> <td>Description         Description         <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<></td> <td>Cares and Handicrafts         Image: Construction of Handicrafts         Image: C</td> <td>Cares and Handicrafts         Image: Construct of Handicrafts         Image: Construct of Handicrafts         Image: Construct of Handicrafts           Rural Godowns/Cold Storage         Image: Construct of Handicrafts         Image: Construct of Handicrafts         Image: Construct of Handicrafts         Image: Construct of Handicrafts           Rural Godowns/Cold Storage         Image: Construct of Handicrafts         Image: Construct of Handicrafts         Image: Construct of Handicrafts         Image: Construct of Handicrafts           Apiculture/Bee Keeping         Image: Construct of Handicrafts         Image: Construct of Handicrafts         Image: Construct of Handicrafts         Image: Construct of Handicrafts           Mich Construct of Handicrafts         Image: Construct of Handicrafts         Image: Construct of Handicrafts         Image: Construct of Handicrafts         Image: Construct of Handicrafts           Saloon/Beauty Parlour         Image: Construct of Handicrafts         Image: Construct of Handicrafts         Image: Construct of Handicrafts         Image: Construct of Handicrafts           Saloon/Beauty Parlour         Image: Construct of Handicrafts         Image: Construct of Handicrafts         Image: Construct of Handicrafts         Image: Construct of Handicrafts           Saloon/Beauty Parlour         Image: Construct of Handicrafts         Image: Construct of Handicrafts         Image: Construct of Handicrafts         Image: Construct of Handicrafts           Saloon/Beauty Parlour</td> | Canes and Handicrafts       Image: Canes and Handicrafts         Rural Godowns/Cold Storage       Image: Canes and Handicrafts         Qabelway Taxing       Image: Canes and Handicrafts         Apiculture/Bee Keeping       Image: Canes and Handicrafts         Grocery Shop       Image: Canes and Handicrafts         Vermi-composting       Image: Canes and Handicrafts         Milch Cow Rearing       3 units         Saloon/Beauty Parlour       Image: Canes and Handicrafts         Mushroom Cultivation       Image: Canes and Handicrafts         Floriculture       Image: Canes and Handicrafts         Goat Rearing       Image: Canes and Handicrafts         Weaving and Handloom       Image: Canes and Handicrafts         Stabilized Mud Block Making       Image: Canes and Handicrafts         Carpentry/Blacksmithy       Image: Canes and Handicrafts         Duckery       Image: Canes and Handicrafts         Sericulture       Image: Canes and Handicrafts         Soap Making       Image: Canes and Handicrafts         Rice Mill Operation       Image: Canes and Handicrafts         Improved Fuel Making (fire cakes etc.)       Image: Canes and Handicrafts         Integrated Farming System       Image: Canes and Handicrafts         Basket Making       Image: Canes and Handicrafts | Description         Description | Canes and Handicrafts         Image: Construct of the second | Description         Description | Description         Description | District Schlading (Init)         Initial Condenses         Initian Condenses         Initianonononon | Link Solution         Link Sol | Canes and Handicrafts         Image: Construction of the second seco | Canes and Handicrafts         Num         Num | Description         Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<> | Cares and Handicrafts         Image: Construction of Handicrafts         Image: C | Cares and Handicrafts         Image: Construct of Handicrafts         Image: Construct of Handicrafts         Image: Construct of Handicrafts           Rural Godowns/Cold Storage         Image: Construct of Handicrafts         Image: Construct of Handicrafts         Image: Construct of Handicrafts         Image: Construct of Handicrafts           Rural Godowns/Cold Storage         Image: Construct of Handicrafts         Image: Construct of Handicrafts         Image: Construct of Handicrafts         Image: Construct of Handicrafts           Apiculture/Bee Keeping         Image: Construct of Handicrafts         Image: Construct of Handicrafts         Image: Construct of Handicrafts         Image: Construct of Handicrafts           Mich Construct of Handicrafts         Image: Construct of Handicrafts         Image: Construct of Handicrafts         Image: Construct of Handicrafts         Image: Construct of Handicrafts           Saloon/Beauty Parlour         Image: Construct of Handicrafts         Image: Construct of Handicrafts         Image: Construct of Handicrafts         Image: Construct of Handicrafts           Saloon/Beauty Parlour         Image: Construct of Handicrafts         Image: Construct of Handicrafts         Image: Construct of Handicrafts         Image: Construct of Handicrafts           Saloon/Beauty Parlour         Image: Construct of Handicrafts         Image: Construct of Handicrafts         Image: Construct of Handicrafts         Image: Construct of Handicrafts           Saloon/Beauty Parlour |

Dr.D.L. Kjam 2 V.S.C. & A.H. (A.A.U.) 2 V.S.C. & A.H. (A.A.U.) DAR (Obs & Gynus) LV R.1 DAR (Obs & Gynus) Ressit. No :- MVC-043 10 25.21

Astant Soft & Water Conservation Officer and a station of the bittles (I) Division Cash Crop Division, PR. 100-4 Jowal. Boll of the Clock Charlen Meghalaya Rural Development Society DMU-Jaintia Hills District Jowai. Mezhalaya

### LIAR LAKHIAT MICRO WATERSHED

Total =	67.50	-	7.50	-	75.00
5 <sup>th</sup> year	2.025	-	0.225	-	2.25
4 <sup>th</sup> year	18.225	-	2.025	-	20.25
3 <sup>rd</sup> year	33.75	-	3.75	-	37.50
2 <sup>nd</sup> year	9.45	-	1.05	-	10.50
1 <sup>st</sup> year	4.50	-	0.45	-	4.50
	90%		5%		
	(Rs. In Lakhs)		(Rs. In Lakhs)		(Rs. In Lakh)
YEARWISE	<b>CENTRAL SHARE</b>		STATE SHARE		TOTAL

Deputy Commitselonar Jennia Hills Distract

Divisional Soil & Water Conservation Officer Jaintia Hills (T) Division Jowal

#### VILLAGE TREATMENT PLAN OF MYNKSI MICRO WATERSHED JAINTIA HILLS-IWMP-VI (2011-2012)

Name of Village= Lapangap, Shiabnai, Pdengtaloo

No.of Village 3 No

Treatable Area = 1000Ha

																									i
.6		TOTAL			_	Ist I	'ear			2nd Year			_	3rd Year			_	4th Year				5th Ye	3ar		
.7	Activities		Physi	cal	77:	F	Physica	al	77:	Phys	sical		77:	Ph	ysical	!	77:	Pl	iysical		17:00	I	hysica	al	77:
8		Ha.	Nos.	Rmt.	Fin	Ha.	Nos.	Rmt.	Fin	Ha.	Nos.	Rmt.	Fin	Ha.	Nos.	Rmt.	Fin	Ha.	Nos.	Rmt.	Fin	Ha.	Nos.	Rmt.	Fin
9	Admistrative Cost	10%			15					2%			3	5%			7.5	3%			4.5				
0 II	Monitoring & Evaluation	2%			3					0.50%			0.75	1%			1.5	0.50%			0.75				
1	Sub-Total of I & II	12%			18					2.50%			3.75	6%			9	3.50%			5.25				
2 11	Preparatory Phase																								
3	EPA																								
	i. Drinking Well/Spring tapped																								
4	chamber																								
5	ii. Washing Platform																								
6	iii. Drinking water supply	4%	2		6.00		2		6.00																
7	iv.																								
8	V.																								
9	DPR	1%			1.5	1%			1.5																
0	Institutional & Capacity Buildin	5%			7.5	1%			1.5	2%			3.00	1%			1.50	1%			1.50				
1	Sub-Total of III	10%			15.00				9.00				3.00				1.50				1.50				
2 1	Work Phase																								
3 A.	Arable Land Treatment																								
4	Vegetative Barriers																								
5	Contour Bunds	60			4.5									60			4.5								
6	Graded Bunds																								
7	Loose Boulder Contour Bunds																								
-8	Bench Terrace	39			7.8									37			7.4	2			0.4				
9	Box Terrace																								
0	Half Moon Terrace																								
1	Field Bunding																								
2	Peripheral Bunding	10.75		3900.4	1.95					1.996		798.4	0.4	3.6		1040	0.52	5.154		2062	1.031				
i3	Crop Demonstration	6			0.3									6			0.3								
4	Kitchen Garden																								
	Improvement of Existing Paddy																								
5	Fields	80			3.44									80			3.44								
6	Crop Demonstration																								
7	Agro-Horticulture	170			14.62					170			2.21				7.82				4.59			]	
8	Horticulture Development																							]	
9	Sub-Total of A	365.75			32.61					171.996			2.61	186.6			23.98	7.154			6.021			]	L
60 <b>B.</b>	Non-Arable Land		+								<u> </u>													]	L
	Improvement of Degraded																								
1	Forest/Existing Natural Forest	370	+		13.32					370			2.59	370			7.03				3.7			]	<b></b>
2	Afforestation	90	+		9.09					90			1.53	90	<u> </u>		4.95				2.61		]		⊢↓
13	Agro-Forestry		+												<u> </u>										⊢∔
	Nursery Establishment		+																				]		┢───┤
15	Avenue Plantation		+		1.05								0.00	20			0.702				0.057		]		⊢−−∔
	Strip Plantation	30	+		1.28					30			0.22	30			0.702				0.357				
17	Sub-Total of B	490	+		23.69					490			4.34				12.68				6.66/				$\vdash$

1	300-10(a) 01 D	450			20.05	_		420		4.04				12.00	<b></b>			0.007			
8 <u>C.</u>	Drainage Line Treatment					 				 									 		
9	Farm Ponds/Dug out Ponds	17	17		2.72			5	5	0.8	12	12		1.92							
0	Water Harvesting structures	3.25	5		3.28						1.95	3		1.968	1.3	2		1.312			
1	Nallah Bund																				
2	Earthen Embankment																				
	Check Dams, H/W Dam,																				
3	Diversion Dam/Irrigation Dam	21	12		7.2			3	2	1.2	15	9		5.4	3	1		0.6			
4	Loose Boulder Check Dam																				
5	Gabion Protection /Retaining W	/all																			
	Stone Masonry/Protection																				
6	wall/Retaining wall	100	5		11.5			20	10	2.3	70	35		8.05	10	5		1.15			
7	Bamboo wall, Bamboo spurs																				
8	Drip Irrigation																				
9	Water Tank/Perrcolation Tank																				
0	Run off Disposal Channel	3		11538	3						1.5		5769	1.5	1.5		5769	1.5			
1	Earthen Irrigation Channel																				
2	CC Irrigation Channel																				
3	Aqueduct																				
4	Sub-Total of C	144.25			27.7			28		4.3	100.45			18.84	15.8			4.562			
5 D.	Livelihood																				
6	Tailoring	40 units			4			5 units		0.5	20 units			2	15 units			1.5			
7	Carpentry/Blacksmith	50 units			2.5			10 units		0.5	5 units			0.25	35 units			1.75			
8	Agriculture Implements																				
	Vegetable Production/Kitchen																				
9	Gardening	200 UNITS	5		5			20 units		0.5	50 units			1.25	130 units			3.25			
0	Apiculture																				
1	Masonry Hollow Block Making																				
2	Piggery																				
3	Poultry																				
4	Vermi-composting																				
5	Composting	100 units			0.5						500 units			0.25	50 units			0.25			
6	Weaving	6 units			1.5						3 units			0.75	3 units			0.75			
7	Stabilized Mud Block Making																				
8	Grocery Shop/Food Stalls																				
	Promotion of Indigenous																			-+	
9	Medicinal Practioner																				
0	Pisciculture																			-+	
1	Soap Making																			-+	
2	Sub-Total of D	396 units			13.5			35 units		1.5	128 units			4.5	233 units			7.5		-+	
3 E.	Production Systems																			-+	
4	Poultry/Piggery	40 units			10			6 units		1.5	12 units			3	22 units			5.5			
5	Poultry Farming																			-+	
6	Piggery Farming																			-+	
7	Food Processing						-													+	
_						 		1							I I					$\rightarrow$	——————————————————————————————————————

·	recording	<b>I</b>			 						L	L	L		L		<b>—</b>	L	 
8	Floriculture																		
	Pisciculture (Including Supply																		
9	of Fingerlings)																		
D	Betle nut Soaking Tank																		
1	Canes and Handicrafts																	$\square$	
2	Rural Godowns/Cold Storage				 T													[]	
3	Cableway Taxing																	$\square$	
4	Apiculture/Bee Keeping																	$\square$	
5	Grocery Shop																	$\square$	
6	Vermi-composting																		
7	Milch Cow Rearing	5 units	2											5 units		2			
8	Saloon/Beauty Parlour																	$\square$	
9	Mushroom Cultivation																	$\square$	
D	Floriculture																		
1	Goat Rearing																		
2	Weaving and Handloom																	$\square$	
3	Stabilized Mud Block Making																		
4	Carpentry/Blacksmithy																	$\square$	
5	Duckery																		
6	Sericulture																	$\square$	
7	Soap Making																	$\square$	
8	Rice Mill Operation																	$\square$	
	Improved Fuel Making (fire																	$\square$	
9	cakes etc.)																		
D	Integrated Farming System																	$\square$	
1	Basket Making																		
2	Kitchen Gardening																		
3	(SHG)	10 units	3							5 units			1.5	5 units		1.5			
4	Sub-Total of E	55 units	15				6 units		1.5	17 units			4.5	32 units		9			
5	Sub-Total of IV (A,B,C,D,E)	1000 ha	84	6%		9	689.996		6.75	287.05			10.5	22.954		6.75			
6 V	Consolidation Phase		33														3%	$\square$	4.5
7	Sub-Total of V		33														3%		4.5
8	Grand Total (I+II+III+IV+V)	100%	150	6%		9	14%		21	50%			75	27%		40.5	3%		4.5
9																			
n																			



Bentstorn Soll & Water Conservation Officer Cash Crop Division, -53 Bell as the crop Chaladons () and structure Biblios NON Meghalaya Rural Development Society alaya Rurat Development Soci (LiPH-IFAD) DMU-Jaintia Hills District Jowai-Meghalaya

# MYNKSI MICRO WATERSHED

YEARWISE	CENTRAL SHARE (Rs. In Lakhs) 90%		STATE SHARE (Rs. In Lakhs) 10%		TOTAL (Rs. In Lakh)
1 <sup>st</sup> year	8.10	-	0.90	-	9.00
2 <sup>nd</sup> year	18.90	-	2.10	-	21.00
3 <sup>rd</sup> year	67.50	-	7.50	-	75.00
4 <sup>th</sup> year	36.45	-	4.05	-	40.50
5 <sup>th</sup> year	4.05	-	0.45	-	4.5
Total =	135.00	-	15.00	-	150.00

Deputy Commitseloner, Jennia Hills District

Divisional Soll & Water Conservation Officer Jaintia Hills (T) Division Jowal

#### VILLAGE TREATMENT PLAN OF KHLIEH MYNI MICRO WATERSHED JAINTIA HILLS-IWMP-VI (2011-2012)

Name of Village= Saphoh,Larnai

No.of Village 2 No

Treatable Area = 1000Ha

1																									1
2			1	OTAL			İst	Year		2	nd Yea	r			3rd Y	'ear			4th ]	'ear			5th	Year	
3	Activities		Physi	cal	-	ł	Physic.	al	-	Phy	sical		-	Ph	ysical		-	Pk	iysical		-	1	Physica	l	
4		Ha.	Nos.	Rmt.	Fin	Ha.	Nos.	Rmt.	Fin	Ha.	Nos.	Rmt.	Fin	Ha.	Nos.	Rmt.	Fin	Ha.	Nos.	Rmt.	Fin	Ha.	Nos.	Rmt.	Fin
5 I	Admistrative Cost	10%			15					2%			3	5%			7.5	3%			4.5				
6 II	Monitoring & Evaluation	2%			3					0.50%			0.75	1%			1.5	0.50%			0.75				
7	Sub-Total of I & II	12%			18					2.50%			3.75	6%			9	3.50%			5.25				
8 111	Preparatory Phase																								
9	EPA																								
	i. Drinking Well/Spring tapped																								
0	chamber																								
1	ii. Washing Platform																								
2	iii. Drinking water supply	4%	2		6.00		2		6.00																
3	iv.																								
4	v.																								
5	DPR	1%			1.5	1%			1.5																
6	Institutional & Capacity Buildir	5%			7.5	1%			1.5	2%			3.00	1%			1.50	1%			1.50				
7	Sub-Total of III	10%			15.00				9.00				3.00				1.50				1.50				
8 IV	Work Phase																								
9 A.	Arable Land Treatment																								
0	Vegetative Barriers																								
1	Contour Bunds	80			6									70			5.25	10			0.75				
2	Graded Bunds																								
3	Loose Boulder Contour Bunds																								
4	Bench Terrace	65			13									55			11	10			2				
5	Box Terrace																								
6	Half Moon Terrace																								
7	Field Bunding																								
8	Peripheral Bunding	17		6620.4	3.31					3.446		1446	0.72	2.64		988	0.494	10.914		4186	2.093				
9	Crop Demonstration	6			0.30									6			0.30								
0	Kitchen Garden																								
	Improvement of Existing Paddy																								
1	Fields	26			1.118									26			1.118								
2	Crop Demonstration																								
3	Agro-Horticulture	130			11.18					130			1.69				5.98				3.51				
4	Horticulture Development																								
5	Sub-Total of A	324			34.91					133.446			2.41	159.64			24.14	30.914			8.353				
6 B.	Non-Arable Land																								
	Improvement of Degraded																								
7	Forest/Existing Natural Forest	400			14.4					400			2.8	400			7.6	400			4				
8	Afforestation	120			12.12					120			2.04				6.6				3.48				
9	Agro-Forestry																								
0	Nursery Establishment																								
1	Avenue Plantation																								
2	Strip Plantation	30			1.28					30			0.22	30			0.702	30			0.357				
3	Sub-Total of B	550	ļ		27.8			l		550			5.06				14.9				7.837		ļļ		L

4	с.	Drainage Line Treatment				†1	 †		†					l	h				}†		 	 
5		Farm Ponds/Dug out Ponds					-												<u>├</u>			
6		Water Harvesting structures	10	7		4 592	-		15	1		0.66	85	6		3 936						
7		Nallah Bund	10	·		1.552	+		1.5	-		0.00	0.0	Ť		0.000						
B		Farthen Embankment					+															
		Check Dams, H/W Dam,					 +															
9		Diversion Dam/Irrigation Dam	39	13		7.8			6	2		1.2	30	10		6	3	1		0.6		
0		Loose Boulder Check Dam					-		-	-							-					
1		Gabion Protection /Retaining W	/all																			
		Stone Masonry/Protection																				
2		wall/Retaining wall	75	30		6.9			10	4		0.92	60	24		5.52	5	2		0.46		
3		Bamboo wall, Bamboo spurs																				
4		Drip Irrigation																				
5		Water Tank/Perrcolation Tank																				
6		Run off Disposal Channel	2		7692	2			1		3846	1	1		3846	1						
7		Earthen Irrigation Channel																				
8		CC Irrigation Channel																				
9		Aqueduct																				
D		Sub-Total of C	126			21.29			18.5			3.78	99.5			16.46	8			1.06		
1	D.	Livelihood																				
2		Tailoring	40 units			4							5 units			0.5	35 units			3.5		
3		Carpentry/Blacksmith	20 units			1			3 units			0.15	5 units			0.25	12 units			0.6		
4		Agriculture Implements																				
Г		Vegetable Production/Kitchen																				
5		Gardening	200 units			5			24 units			0.6	80 units			2	96 units			2.4		
6		Apiculture																				
7		Masonry Hollow Block Making																				
В		Piggery																				
9		Poultry																				
D		Vermi-composting																				
1		Composting	200 units			1							100 units			0.5	100 units			0.5		
2		Weaving	10 units			2.5			3 units			0.75	5 units			1.25	2 units			0.5		
3		Stabilized Mud Block Making																				
4		Grocery Shop/Food Stalls																				
		Promotion of Indigenous																				
5		Medicinal Practioner																			$ \rightarrow $	
6		Pisciculture					 														$ \longrightarrow $	
7		Soap Making																			$ \rightarrow $	
8		Sub-Total of D	470 units			13.5			30 units			1.5	105 units			4.5	245 units		$\square$	7.5	$ \longrightarrow $	
9	Ε.	Production Systems						_											$\square$		$ \rightarrow $	
0		Poultry/Piggery	32 units			8	 	1	6 units			1.5	4 units			1	22 units		$\square$	5.5	$ \rightarrow $	<u> </u>
1		Poultry Farming					 												$\square$		$ \rightarrow $	ļļ
2		Piggery Farming					 												$\vdash$			 <b></b>
3		Food Processing					 	1						L					$\square$		$ \rightarrow $	L
4		Floriculture					 												$\vdash$			 <b></b>
		Pisciculture (Including Supply																				
5		of Fingerlings)					 	1											$\square$		$ \rightarrow $	L
6		Betle nut Soaking Tank				<u> </u>	 							l					ļ]		 	 <u>↓</u>

۳.		Detre nationaling rains		 		 4	L		 L		L	I	L		l	<b>.</b>	. <b>.</b>	L		L	·	Ļ	i
7		Canes and Handicrafts																					
8		Rural Godowns/Cold Storage																					
9		Cableway Taxing																					
D		Apiculture/Bee Keeping																					
1		Grocery Shop																					
2		Vermi-composting																					
3		Milch Cow Rearing	18 units	5.4							9 units			2.7	9 units			2.7					
4		Saloon/Beauty Parlour																					
5		Mushroom Cultivation																					
6		Floriculture																					
7		Goat Rearing																					
8		Weaving and Handloom																					
9		Stabilized Mud Block Making																					
D		Carpentry/Blacksmithy																					
1		Duckery																					
2		Sericulture																					
3		Soap Making																					
4		Rice Mill Operation																					
		Improved Fuel Making (fire																					
5		cakes etc.)																					
6		Integrated Farming System																					
7		Basket Making																					
8		Kitchen Gardening																					
9		Miscillaneous Enterprises (SHG	18 units	5.4							9 units			2.7	9 units			2.7					
D		Sub-Total of E	52 units	15				6 units		1.5	14 units			4.5	32 units			9					
1		Sub-Total of IV (A,B,C,D,E)	1000 ha	33	6%		9	701.946		6.75	259.14			10.5	38.914			6.75					
2	V	Consolidation Phase	4.5																3%			4.5	
3		Sub-Total of V	4.5																3%			4.5	i
4		Grand Total (I+II+III+IV+V)	100%	150	6%		9	14%		21	50%			75	27%			40.5	3%			4.5	1
5																							

Dr.D.I. Kjam Dr.D.I. Kjam Str.Sc. & A.H. (A.A.U.) PGNEDAE (Obe & Gynus) LV R.I ROSIL NO :- MVC-043 ROSIL NO :- MVC-043

Banistoni Soli & Weter Conservation Officer Cash Crop Division, Jowes Bott Cash Crop Christon Meghalaya Rural Development Society DMU-Jaintia Hills District Jowai, Meghalaya

### KHLIEH MYNI MICRO WATERSHED

YEARWISE	<b>CENTRAL SHARE</b>		STATE SHARE		TOTAL
	(Rs. In Lakhs)		(Rs. In Lakhs)		(Rs. In Lakh)
	90%		10%		
1 <sup>st</sup> year	8.10	-	0.90	-	9.00
2 <sup>nd</sup> year	18.90	-	2.10	-	21.00
3 <sup>rd</sup> year	67.50	-	7.50	-	75.00
4 <sup>th</sup> year	36.45	-	4.05	-	40.50
5 <sup>th</sup> year	4.05	-	0.45	-	4.5
Total =	135.00	-	15.00	-	150.00

Deputy Committeeloner, Jeimia Wills Disksch

Divisional Soll & Water Conservation Officer Jaintia Hills (T) Division Jowal

1	2	3	3	4	5	6	7				8				
Names of Projects	Year of sancti on	Pro dura (dd/mn From	ject ation n/ yyyy) To	Area of the projects to be treated (Treatab le Area)	Project cost (Rs. In lakh)	Names of Micro watersheds & Code nos. (as per DoLR's unique codification)	Treatable Area (ha) (As per LULC)			Area details (ha) (falling within the projects) (As per ownership)					
							Cultivate d rainfed area	Cultivate d irrigated area	Uncultivated wasteland		Pvt. Agri. Land	Forest land	Comm unity land	Others (pl. specify)	Total area (ha)
									a) Tempora ry fallow	b) Per manent					
JH – IWMP VI	2011- 12	2011- 12	2015- 16	4000 Ha	600 Lakhs		256 На	78 Ha	1077 Ha	NIL	233 Ha	2508 Ha	1377 Ha	552 Ha	4670 На

#### Fund provision for the IWMP projects from all sources:

1	2	0					3						4	
	IWMP Fund				Funds f	from other so	ources in	addition to IN	WMP func	ls				
Name of Projects			Convergence funds		РРР		Community		Institutional finance		Others (Pl. specify)		Total	
	Central Share	State     Name of private     Name of private       Name of bution     Name of private     Name of private       Name     Name     Name of private       Name     Name     Name       Inancial contri-     bution		Financial contri- bution	Name	Financial contri- bution								
JH – IWMP VI	540.00	60.00	NREGA	143.694	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	743.694 Lakhs	

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

1		2			3							
	Di	stt. Agency's Proje	ect Account deta	ils	Watershed Committee (WC) account details:							
Names of Projects	Name of the Bank and Branch where project account has been opened	Account Number (to be obtained confiden- tially)	Account type (Savings/ Current/ Others)	Name & Designation of authorized persons who operate the account.	Name of Watershed Committee	Name of the Bank and Branch where project account has been opened	Account number (to be obtained confiden-tially	Account type (Savings/ current others)	Name & Designation of authorized persons who operate the account.			
JH– IWMP VI	SBI Bank		Saving	Shri D.Challam DS&WCO	<ol> <li>Liarlakhiat</li> <li>W/S</li> <li>Committee</li> <li>Mynksi W/S</li> <li>Committee</li> <li>Wahpyrhut</li> <li>W/S</li> <li>Committee</li> <li>Khliehmyni</li> <li>W/S</li> <li>Committee</li> <li>Kyrtem W/S</li> <li>Committee</li> </ol>	SBI		Saving				

	1	2	3	4	5	6	7
Sl. No.	District	Names of projects	Names of Departments with Schemes converging with IWMP	Fund to be made available to IWMP due to convergence (Rs. in lakh)	Name of activity/task/structure undertaken with converged funds (a) Structures (b) livelihoods (c ) Any other (pl. specify) <sup>#</sup>	Reference no. of activity/ task/ structure in DPR <sup>@</sup>	Level at which decision for convergence was taken <sup>\$</sup>
1	Jaintia Hills	JH – IWMP-VI	* Community Rural Development Department MNREGS	143.694	Land Development	-	District Level
2							

**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			
S. No	State	Name of the Training Institute	Full Address with contact no., website & e-mail	Full Address with contact Designation of Type of Institute no., website & e-mail the Head of Institute		Area(s) of specialization <sup>\$</sup>			
1		NIRD (NER)	Guwahati	Director	Central Govt.	Remote Sensing, Rural Devt.			
2		SIRD	SIRD Nongsder		State Govt.	Capacity Building			
3	alaya	RRTC	Umran	Director	Don-Bosco	Agri-Horti, Animal Husbandry, Entrepreneurship			
4	Megh	ICAR	CAR Umiam		Central Govt.	Do			
5		VTC	Kyrdem Kulai	Director	State Govt.	Animal Husbandry			
6		Fruit Garden	Shillong	Director	State Govt.	Agri-Horti, Fruit Processing			

• 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)

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

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

#### Table 6.2: Capacity Building activities for the year 2011 – 12 as on 31/03/2012 (dd/mm/yyyy)\*

1	2	3			4			5
Project	Typeof Training/ Capacity	Agency/Institution		No. of Tra	inings targeted during e	each financial year		Total
FTOJECT	Building	to provide training	1 <sup>st</sup> Year	2 <sup>nd</sup> Year	3 <sup>rd</sup> Year	4 <sup>th</sup> Year	5 <sup>th</sup> Year	
SLNA								
DRDA/ZP Cell								
PIAs	Watershed Management	NIRD,ICAR	1	1	1	2		5
WDTs	Watershed Management	NIRD,ICAR	4	3	2	2		11
UGs	Agriculture/ Horticulture, livelihood	Soil Deptt. Agri Deptt. Horti. Deptt.		10	5	5		20
SHGs	Livelihood & income generating	NGO's,	1	5	5	2		13
WCs	Exposure trip, Natural resources Management	Soil & Water conservation Deptt.	1	3	2	2		9
GPs	Participation/maintenance of community assets	Soil & Water conservation Deptt.& NGO's,	1	4	2	2		9
Community	Awareness Programme, Livestock management	Soil & Water conservation Deptt. & Vety Deptt.	1	4	2	-		7
Others Pl. specify)								

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

SI. No.	1	2	3			
	Activity	Executing agency	Estimated expenditure (Rs.)			
1.	Awareness	S&WC (T) Division, Jaintia Hills	1.00			
2.	PRA Exercises	S&WC (T) Division, Jaintia Hills	0.60			
3.	Exposure Visit	S&WC (T) Division, Jaintia Hills	0.40			
4.	Capacity Building	S&WC (T) Division, Jaintia Hills	4.00			

**CHAPTER VII** 

**EXPECTED OUTCOME** 

### **CHAPTER VII**

### **EXPECTED OUTCOME**

#### Table 7.1 Employment related outcomes:

		1											2					
SI	Name of	Wage employment										Self employment						
No	Villages	No. of mandays						No. of beneficiaries					No. of beneficiaries					
		SC	ST	Men	Women	Total	SC	ST	Men	Women	Total	SC	ST	Men	Women	Total		
1.	Umladang		100 %	7560	6720	14280		100 %					100 %	768	374	1142		
2.	Rakabah		100%	7560	6720	14280		100 %					100 %	332	152	484		
3	Nongrim Bambthong		100 %	7560	6720	14280		100 %					100 %	659	257	916		
4	Sohphoh		100%	7560	6720	14280		100 %					100 %	500	165	665		
5	Larnai		100%	7560	6720	14280		100 %					100 %	727	299	1026		
6	Lapangap		100%	7560	6720	14280		100 %					100 %	1267	415	1682		
7	Lumlakhiat		100%	7560	6720	14280		100 %					100 %	333	103	436		
8	Pdeintalu		100%	7500	6000	13500		100 %					100 %	96	27	123		
9	Shiabnai		100%	60	720	780		100 %					100 %	95	38	133		
Table 7.2 Migration Details:

1	2	3	4	5	6	7		8
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	Occupation during migration	Income from such occupation	For reduced mi major activi respo	gration identify ties of IWMP onsible
				village (km)		(Rs. in lakh)	(a) Structures	(b) Livelihoods
Umladang	Nil							
Rakabah	Nil							
Nongrim Bambthong	Nil							
Sohphoh	Nil							
Larnai	Nil							
Lapangap	Nil							
Lumlakhiat	Nil							
Pdeintalu	Nil							
Shiabnai	Nil							

\* From column no. 2, total number of States; from column no. 3, total no. of Districts; from column no. 4, total no. of projects; from column no. 5, total no. of 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 form column no. 11, average income from occupation during migration, for the entire country may be given at the end of the Table.

## Table 7.5.2 Status of Drinking water:

	1			2		3
A	vailability of drinking	water	Q	uality of drinking wa	ater	Comments
Pre-project	Post-project	Change in availability	Pre-project	Post-project	Change in quality	-
10 months			Moderately portable			Shallow

\* 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		
			Water savings in o	cu.m.	
Name of the project	Name of major crop	through water saving devices <sup>\$</sup>	through water conserving agronomic practices <sup>#</sup>	Any other (pl specify)	Total
JH-IWMP-VI	Paddy	NA	NA	-	-
	Maize	NA	NA	-	-

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

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

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

 Table 7.6: Vegetation/ crop related outcomes:

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

1	2				3			4						5					
				Pre-J	oroject	:				Μ	id-term					Pos	t-projec	t	
Name of	Name of	ŀ	Area	Ave Yie	rage eld	Pro	Total oduction	4	Area	Ave	rage Yield	T Proe	otal duction	A	Area	Ave Yi	erage ield	Total	Production
Projects			(ha)	(Qtl	) per a.		(Qtl)		(ha)	pe	r ha (Qtl)	(	Qtl)		ha)	per h	ia (Qtl)		(Qtl)
		Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.
	Paddy	-	768	-	25	-	19200	-	-	-	-	-	-	-	-	-	-	-	-
JH- IWMP-	Maize	-	227	-	20	-	4540	-	-	-	-	-	-	-	-	-	-	-	-
VI	Ginger	-	250	-	40	-	10000	-	-	-	-	-	-	-	-	-	-	-	-
	Vegetables	-	163	-	30	-	4890	-		-	-	-	-	-	-	-	-	-	-

Note : The Area of Jhum crops decreases in the Mid- term and Post project because of converting it to Permanent Plantation (Rubber & Arecanut).

\* 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					Į	5		
				Pre-pr	oject					Mid	-term					Post-p	orojec	t	
cts	Name of crops	Ar (h	rea na)	Ave Yie (Qtl)	rage eld ) per a.	To Proc o (Q	tal Jucti n (tl)	Ar (h	rea ia)	Ave Yie per (Q	rage eld ha tl)	To Prode (C	otal uction (tl)	Ar (h	ea a)	Aver Yie per (Qt	age Id ha tl)	To Produ (Q	tal Iction tl)
Proje		Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.
me of	-	-	-	-	-	-	-		-		-		-		-		-		-
Nai	-	-	-	-	-	-	-		-		-		-		-		-		-
	-	-	-	-	-	-	-		-		-		-		-		-		-
	-	-	-	-	-	-	-		-		-		-		-		-		-
	-	-	-	-	-	-	-		-		-		-		-		-		-
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 Pre-project								4					5				
				Pre-pro	ject					Mic	l-term					Post-pro	ject		
Name of	Name of		Area	Averag	e Yield	To Produ	tal uction	Ar	ea	Averag	ge Yield	Tot Produe	al ction	Α	lrea	Aver Yie	age Id	Total Pro	oduction
Projects	crops		(ha) (Qtl) per ha. (Qtl)		tl)	(h	(ha) per h		per ha (Qtl) (Qtl)		I)	(ha)		per ha (Qtl) (Qtl)		tl)			
		Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.
JH-IWMP-VI																			
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 Availability of Fodder:

1	2		3			4	
			Pre project (tonnes/ha)			Post project (tonnes/ha)	
Name of project	Duration of Project	Source/Name of report	Year of reference	Area already under fodder	Area under fodder proposed to be covered through IWMP	Area under fodder actually covered through IWMP	Change in area under fodder
JH-IWMP V	5 yrs	Field survey Report	2011-2012	NA	155ha	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.

\* 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	
		Exi	isting area tree cov	ver (ha)		Expected Outcome (ha)	
Name of project	Duration of Project	Source/Name of report	Year of reference	Area already under forest/vegetative cover	Forest/vegetative cover area proposed to be covered under IWMP	Forest/vegetative cover area actually covered under IWMP	Change in forest/vegetative cover area
JH-IWMP-VI	5 yrs	Field Survey Report & LULC Map, NESAC, Umiam	2011 - 12	1240 Ha	525 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
		F	Pre Project Area (ha)		Expected outo	come Area (ha.)
Name of project	Duration of Project	Source/Name of report	Year of reference	Area already under horticulture	Area under horticulture proposed to be covered through IWMP	Expected change in area under horticulture
JH-IWMP-VI	5 yrs	Field Survey Report	2011-12	NIL	640 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
		Pro	e Project Area (l	ha)	Post Proje	ct Area (ha)
project	Project	Source/Name of report	Year of reference	Area already under fuel-wood	Area under fuel-wood proposed to be covered under IWMP	Expected change in area under fuel-wood
JH-IWMP VI	5 years	Field survey Report	2011-12	1240 Ha	525 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 Details of livestock in the project areas (for fluids please mention in liters, for solids please mention in kgs. and income in Rs.):

1	2		3			4			5		6
Name of	Type of Animal		Pre-projec	ct		Mid-term			Post-proje	ct	Remar
Projects		No.	Yield	Income	No.	Yield	Income	No.	Yield	Income	ks

	Poultry	5314	10,628 kg	34.0096 lakhs			
JH-IWMP VI	Cattle	721	57,680 Kg	103.824 lakhs			
	Piggery	817	32,680 kg	58.824 lakhs			
	Goat	167	2,505 kg	7.515 lakhs			

\* 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 7.10 Benefit Cost Analysis

# Note: Details of B:C ratio should be enclosed and the calculation of BC Ratio should be based on a return period of 7 years

1	2	3	4	5	6	7
District	Name of project	Name of WC	Name of structure/ activity	Estimated cost (Rs. In lakhs)	Expected quantifiable benefits (Rs.)	Benefit: Cost ratio <sup>#</sup>
Jaintia Hills District	JH-IWMP-VI	-	As per Treatment Plan	600 lakhs	1850	3.1:1

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

<sup>#</sup> B:C ratio more than 1 – cost effective

less than 1 - Not cost effective

ANNEXURE I MAPS
















































































**ANNEXURE III** 

**COST ESTIMATES** 

# MODEL NORMS PER HECTARE FOR AGRO-HORTICULTURE WITH CITRUS FRUIT (INTEGRATED WATERSHED MANAGEMENT PROGRAMME)

(Rate as per P.W.D schedule of rate for Road and bridge 2008-2009)

Spacing - 8mx6.3m Plant Density - 200 Nos.

### A. Preliminary Works:

I	. Site clearance		
	3 man days @Rs.100/-per man day	-	Rs.300.00
I	I. Pit digging (pit size 0.45mx0.45mx0.45m)		
	200 Nos. @Rs.5/-each	-	Rs.1,000.00
		TOTAL =	Rs.1,300.00
В. <u>F</u>	irst year planting:		
I	. Cost of planting materials		
	200Nos. @Rs.10/-each	-	Rs.2,000.00
П	. Cost of planting 200 Nos. @Rs.3/-each	-	Rs. 600.00
Ш	. Weeding two times 20 man days		
	@Rs.100/- per man day.		Rs.2,000.00
		TOTAL =	Rs. 4,600.00
C. <u>S</u>	econd year planting:		
١.	Refilling vacancy (10%)	-	Rs. 360.00
١١.	Weeding two times 20 mandays		
	@Rs.100/-per man day	_	Rs.2,000.00
111.	Plant protection measures including cost		
	of chemical	-	Rs. 340.00
		TOTAL =	Rs.2,700.00
Gran	d Total A+B+C = Rs.1300.00+Rs.4600.00+Rs.27(	00.00 =	Rs.8,600.00

# (Rupees eight thousand six hundred) only.

# MODEL NORMS PER HECTARE FOR AGRO-HORTICULTURE WITH TEMPERATE FRUIT (INTEGRATED WATERSHED MANAGEMENT PROGRAMME) (Rate as per PWD schedule of rate for road And bridge 2008-09)

•••••

Spacing – 8m x 7.8m Plant Density – 160 Nos.

A. Preliminary works:

I. Site clearance	
3 man days @Rs.100/- man day	- Rs.300.00
II. Pit digging (Pit size 0.45mx0.45mx0.45m)	
160Nos. @Rs.5/-each	- Rs.800.00
	TOTAL = Rs.1,100.00
B. <u>First year planting</u> :	
I. Cost of planting materials 160Nos.	
@Rs.15/-each	- Rs.2,400.00
II. Cost of planting 160 Nos. @Rs.3/- each	- Rs. 480.00
III. Weeding two times 20 mandays	
@Rs.100/-per manday	- Rs.2,000.00
	TOTAL: Rs.4,880.00
C. <u>Second year planting:</u>	
I. Refilling vacancy (10%)	- Rs. 370.00
II. Weeding two times 20 mandays	
@Rs.100/-per manday	- Rs.2,000.00
	TOTAL = Rs.2,370.00
Grand Total A+B+C = Rs.1100.00+Rs.4880.00+Rs.2370.	00 = Rs.8,350.00

### (Rupees eight thousand three hundred fifty) only.

# MODEL NORMS PER HECTARE FOR AFFORESTATION WITH PINE/NON-PINE (INTEGRATED WATERSHED MANAGEMENT PROGRAMME)

(Rate as per P.W.D. schedule of rate for Road and Bridge 2008-09)

.....

Spacing 6m x 5.5m

Plant density – 300Nos.

#### A. <u>Preliminary works</u>:

Ι.	Jungle clearance etc., 5 man days @Rs.100/-per man day	- Rs.500.00
١١.	Pit digging (Pit size 0.30mx0.30mx0.30m) 300Nos. @Rs.4/-each	- Rs.1,200.00
		TOTAL = Rs.1,700.00
В.	First year planting:	
I.	Cost of planting materials 300Nos. @Rs.8/-each	- Rs.2,400.00
١١.	Cost of planting 300 Nos. @Rs.2/-each	- Rs. 600.00
111.	Weeding two times 20 man days @Rs.100/-per man day	- Rs.2,000.00
IV.	Fire protection measures 5 man days @Rs.100/-per man day	<u> </u>
C.	Second year planting:	
I.	Vacancy refilling (10%)	- Rs. 400.00
١١.	Weeding two times 20 mandays @Rs.100/-per man day	- Rs. 2,000.00
111.	Fire protection measures 5 man days @Rs.100/-per manday	<u>- Rs. 500.00</u> TOTAL = Rs.2,900.00
Grand	Total A+B+C = Rs.1700.00+Rs.5500.00+Rs.2900	0.00 = Rs.10,100.00

(Rupees ten thousand one hundred) only.

# <u>COST NORMS FOR EARTHEN PERIPHERAL BUND WITH LIVE VEGETATION PER METRE</u> (INTEGRATED WATERSHED MANAGEMENT PROGRAMME)

(Rate as per PWD schedule of rate for Road and Bridge 2008-2009)

.....

## A. PHERIPHERAL BUNDS SPECIFICATION & COSTS

Top width=1.0mBottom width=1.2mHeight=1.0m

1/3(a) Earth work in excavation etc in ordinary soil, etc

$$1.0 \text{mx} \frac{1.0 + 1.2}{2} \text{mx} 1.0 \text{m} = 1.10 \text{m}^3 \text{ @Rs.39.00/-m}^3 \dots \text{Rs.} 43.00$$

 Supplying and planting of live hedges on toe of bunds with local shrubs/cutting, etc. per Running metre in L.S <u>...... Rs. 7.00</u>

	Dc	50.00
IUIAL =	RS.	50.00

(Rupees Fifty) only.

## <u>COST NORMS FOR EARTHEN CONTOUR BUND</u> (INTEGRATED WATERSHED MANAGEMENT PROGRAMME)

(Rate as per PWD schedule of rate for Road and Bridge 2008-2009)

.....

# A. CONTOUR BUNDS SPECIFICATION & COSTS

Top width = 0.5m Bottom width = 1.0m Height = 0.77m Spacing = 20 m Total Length = 5 x 100 = 500m

1/3(a) Earth work in excavation etc in ordinary soil, etc

 $500 \text{mx} \frac{0.5 + 1.0}{2} \text{mx} 0.77 \text{m} = 288.5 \text{m}^3 \quad @\text{Rs.} 26.00/-\text{m}^3 \quad .... \quad \text{Rs.} \quad 7,500.00$ 

TOTAL Rs. 7,500.00

(Rupees Seven thousand five hundred) only.

# <u>COST NORMS FOR IMPROVEMENT OF EXISTING PADDY FIELD</u> (INTEGRATED WATERSHED MANAGEMENT PROGRAMME)

(Rate as per PWD schedule of rate for Road and Bridge 2008-2009)

.....

#### A. MARGINAL BUNDS

50 x 
$$\frac{0.40 + 0.70}{2}$$
 x 0.60 = 16.5 m<sup>3</sup>

B. SHOULDER BUND

1/3(a) Earth work in excavation etc., in ordinary soil.

10Nos. x 50x  $\frac{0.50 + 0.30}{2}$  x 0.50 = 100.00 m<sup>3</sup>

Land leveling L.S  $= 50.00 \text{ m}^3$ 166.5 m<sup>3</sup>

Say Rs.4,300.00

(Rupees Four thousand three hundred) only.

### COST NORMS FOR LOOSE BUOLDER BUNDS (IWMP)

(Rate as per PWD schedule of rate for Road & Bridge 2008-2009)

.....

### A. SPECIFICATIONS & COSTS OF LOOSE BOULDER BUNDS

Top width = 0.4 mBottom width = 1.0 mHeight = 0.9 m

Length = 10 m

1/3.11 Providing dry stone masonry walls etc.

 $10 \text{mx} \frac{0.4 + 1.0}{2} \text{m x} 0.90 = 6.30 \text{m}^3 \text{ @Rs.1,191/-m}^3 = \text{Rs.7,500.00}$ TOTAL Rs.7,500.00

(Rupees Seven thousand five hundred) only.

# <u>COST NORMS FOR RUN-OFF DISPOSAL CHANNEL</u> (INTEGRATED WATERSHED MANAGEMENT PROGRAMME)

(Rate as per P.W.D. schedule of rate for Road & Bridge 2008-2009)

Specification – Top width - 1.00m Bottom width - 0.70m Depth - 1.2 m

1/3(a) Earthwork in excavation etc., in ordinary soil.

 $1mx \frac{1.00 + 0.7}{2} x1.2m = 1.02m^3 \quad @Rs.26.00/-per m^3 \dots Rs. 26.52$ Total = Rs. 26.52

Say Rs.26.00

In words (Rupees twenty six) only.

#### COST NORMS FOR HALF MOON TERRACES (IWMP)

(Rate as per P.W.D. schedule of rate for Road & Bridge 2008-2009)

.....

### A. SPECIFICATIONS & COSTS OF BOX/HALF MOON TERRACES

1/3(a) Earthwork in excavation etc., in ordinary soil, etc.

334Nos.x<sup>1</sup>/<sub>2</sub>x1.2x1.2x1.2 = 288.50m<sup>3</sup> @Rs.26.00/m<sup>3</sup> = Rs.7,500.00 TOTAL = Rs.7,500.00

(Rupees seven thousand five hundred) only.

# MODEL NORMS PER HECTARE FOR IMPROVEMENT OF DEGRADED FOREST

# (INTEGRATED WATERSHED MANAGEMENT PROGRAMME)

(Rate as per P.W.D. schedule of rate for Road & Bridge 2008-2009)

A. Pr	eliminary works:		
· · · <u>· · ·</u>	Site clearance 2 mandave		
1.	Site clearance 3 mandays		Bc 200 00
	ers.100/-per man day	•••••	KS.500.00
П.	Pit digging (Pit size 0.30mx0.30mx0.30m)		
	100 Nos. @Rs.4/-each		Rs.400.00
		TOTAL =	Rs.700.00
B. <u>Fir</u>	<u>st year Planting</u> :		
١.	Cost of planting materials 100Nos.		Dc 800 00
	Whs.o/-edil	••••••	KS.600.00
П.	Cost of planting 100Nos. @Rs.2/-each		Rs.200.00
III.	Round weeding around the plant four times		
	5 man days @Rs.100/-per man day.		Rs.500.00
IV.	Fire protection measures 4 man days		
	@Rs.100/-per man day	<u></u>	Rs.400.00
		TOTAL =	Rs.1,900.00
	econd year planting.		
c. <u>se</u>			
١.	Refilling vacancy (10%)		Rs.100.00
١١.	Round weeding around the plant four times		
	5 man days @Rs.100/-per man day		Rs.500.00
111.	Fire protection measures 4 man days		D 400.00
	@RS.100/-per man day		<u>Ks.400.00</u>
		IUIAL =	KS.1,000.00
Grant	Total A+B+C = Rs.700.00+Rs.1900.00+Rs.1000.00	=	Rs.3,600.00
			-

(Rupees three thousand six hundred) only.

#### ESTIMATE FOR CONSTRUCTION OF FARM POND

(The Rate base as per M.P.W.D schedule of rate for Road & Bridge and E&D works 2008-2009)

1/3(d) Earth work in excavation to the proper including light dressing, providing cambering and superlative as directed and removal of spoils up to 30m lead and all lift. Soft or laminated rock or medium shale.

$$V = \frac{1.20}{6} \left\{ 20 \times 10 + 18.8 \times 8.8 + 4 (19.4 \times 9.40) \right\}$$

V = 219.00m<sup>3</sup> @Rs.63.00/-m<sup>3</sup>

...... Rs.13,795.00

2/14 Cutting road side drain including dressing, grading
(ii) and removal of spoils up to 15.0m complete as directed.
In ordinary soil, comprising of black cotton soil, Green vegetation soil, red soil, loamy soil, clay, soft shale and loose moorum etc.

60Rm @Rs.38.00/-Rm

..... Rs.2,280.00

TOTAL: Rs.16,075.00

Say Rs.16,000.00

In words (Rupees sixteen thousand) only.

# MODEL ESTIMATE FOR CONSTRUCTION OF C.C CHECK DAM

(The rate based as per PWD Schedule of rate for Reads, bridges and E&D Works 2008 – 2009)

### Name of Beneficiary – Name of Location/ Village –

1/5 (a)	Earthwork in excavation for abutment and wing walls of bridges and culverts, up to the desired etc complete								
	1×5.80×1.00×0.50 = 1×4.85×1.50×0.30 =	2.90 m <sup>3</sup> 2.18m <sup>3</sup> 5.08m <sup>3</sup>	- Pc 620 02						
		@ 13. 124.00/11	- 13. 025.52						
2/26	providing cement concr	ete work in prop 1:4:8 with							
	hard broken stone aggr	egates 40 mm etc complete.							
	1×5.80×1.00×0.10 = 0.5	8m <sup>3</sup>							
		@ Rs. 2136.00/m <sup>3</sup>	= Rs. 1236.88						
3/41(a)	Providing shuttering wi	th dressed planks not less							
	than 25mm thick etc co	mplete.							
	$1 \times 5.80 \times 1.10 = 6.38 \text{m}^2$								
	$1 \times 5.80 \times 1.20 = 6.96 \text{m}^2$								
	$2 \times 3.50 \times 0.40 = 2.80 \text{m}^2$								
	$1 \times 7.85 \times 0.05 = 0.39 \text{m}^2$								
		16.53m <sup>2</sup>							
		@ Rs. 295.00/m <sup>2</sup>	= Rs. 7876.35						
4/28	Providing cement concr	ete work in abutments, wing							
	walls etc complete								
	1×5.80×1.00×0.40 = 2.3	2m <sup>2</sup>							
	$1 \times 5.80 \times \frac{1.00 + 0.50}{2} \times $	1.10 = 4.78m <sup>3</sup>							
	2×1.50×0.50×0.40 = 0.6	0m <sup>3</sup>							
	1×4.85×1.50×0.10 = 0.7	3m <sup>3</sup>							
	= 8.43	m <sup>3</sup>							
		@ Rs. 2344.00/m <sup>3</sup>	= Rs. 19759.92						

5/24	Providing stone less than 25cm 1×4.85×1.50×0	e pitching with one man size boulde × 30cm etc complete .25 = 1.82m <sup>3</sup> @ Rs. 512.00/m <sup>3</sup>	r not	=Rs. 931.84
6/27	Providing 12m	m thick cement plastering including		
0,2,	cleaning surfac	e etc complete		
	1×5.80×1.10	$= 6.38m^{2}$		
	1×5.80×1.20	$= 6.96 \text{m}^2$		
	2×3.50×0.40	$= 2.80 \text{m}^2$		
	1×5.80×0.50	$= 2.90 \text{m}^2$		
	1×4.85×1.50	$= 7.28 m^{2}$		
		$= 26.32 \text{m}^2$		
		@ Rs. 93.00/m <sup>2</sup>		= Rs. 2447.76
		<u> </u>	TOTAL	= Rs. 29884.67

Say Rs. 29,900.00

(Rupees twenty Nine thousand nine hundred) only

### SCHEME FOR SETTING UP OF 50 NOS KUROILERS (LOW INPUT BIRD)

C.	CA	PITA	LEXPEND	DITURE							
	1.	1. Cost of construction of shed of 25 sq. ft. covered room @ Rs. 120/sq. ft									
		and	100 sq. f	ft. range area @ 60/sq. ft.		Rs.9	00.00				
	2.	Cos	st of equip	pments like Feeds, drinking water, etc. (L.S)		Rs.	775.00				
	3.	Mis	sc. expend	diture including transportation cost		Rs.	800.00				
					TOTAL R	s. 10,	575.00				
Β.	RECURRING EXPENDITURE										
	1.	Cos	st of 50 nd	os. Kuroilers 8 weeks old @ Rs. 64/bird		Rs.	3200.00				
	2.	Cos	st of feed	:-							
		a)	Grower	mash for 1 month (50x90gmsx60days=135kgs)							
			i)	70% kitchen waste @ Rs. 3/Kg (95 Kg x 3 = Rs. 28	5)	Rs.	285.00				
			ii)	30% Concentrated feed @ Rs. 17.50/Kg (40Kgx17	.50=Rs.700)	Rs.	700.00				
		b)	Grower	mash for 2 month (50x100gmsx30days=300kgs)							
			i)	70% kitchen waste @ Rs. 3/Kg (210 Kg x 3 = Rs. 6	30)	Rs.	630.00				
			ii)	30% Concentrated feed @ Rs. 17.50/Kg (90Kgx17	.50=Rs.1575)	Rs.1	575.00				
		c)	Layer ma	ash to be supplied for 5 months and remaining pe	eriod						
			of feedin	ng for laying will be borne by the beneficiaries							
				(50x120gmsx150days=900kgs)	22.21	-					
			1)	70% kitchen waste @ Rs. 3/Kg (630 Kg x 3 = Rs. 1)	890)	Rs.	1890.00				
	2		II)	30% Concentrated feed @ Ks. 17.50/Kg (270Kgx1	7.50=Rs.4725)	Rs.4	725.00				
	э. Л	KS.J	000.00								
	of	6-17	months	when the hird attained 2-2 5kgs live weight @ Rs	14/kg	Re	420.00				
	0.			anen ene bild ditallied z z.Skgs live weight (# 13	TOTAL	Rs. 1	4.425.00				
Total E	xpe	nditu	are	A + B							
				Rs. 10,575 + Rs. 14,425							
				Rs. 25,000.00 (Rupees Twenty five thousand) onl	У						
INCOM	IE:-										
1.	By	sale	of 23 nos	s. of Cockerels @ Rs. 140/Weighing 2.5-3kgs/each	n	Rs.	9660.00				
2.	2. By Sale of 4238 nos. of Eggs @ Rs. 5/egg										
3.	By	sale	Culled he	en weighing 1.8-2 kgs Rs. 140/kg		Rs.	6440.00				
4.	Sa	le of	manure,	gunny bags, etc. (L.S)	· · ·	Rs.	500.00				
					TOTAL	Rs.3	37, 790.00				

(Rupees thirty seven thousand seven hundred ninety only)

#### PARAMETERS:-

Weighing of cockerels2.5 - 3 kgWeighing of Culling hen- 1.8 - 2 kgBreakage %- 3%Rate of mortality- Grower -5 % Layer - 1%Laying capacity- 180 - 200/ egg/bird

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#### SCHEME FOR COMMERCIAL PIG BREEDING (Unit Size - 1 no. Sow and 1 No. Boar)

Α.	No	on-Recurring Expenditure:-	
	1.	Construction of pig sty with an area of 120 sq. ft for accommodation	
		of 2 nos. Pigs @ Rs. 65/ sq. ft. with locally available material	Rs. 7800.00
	2.	Cost of Breeding Stock:-	
		a) Cost of 1 no. Sow of 4-5 months age @ Rs. 2200/-	Rs. 2200.00
		b) Cost of 1 no. Boar of 5-6 months age @ 2700/-	Rs. 2700.00
	З.	Misc. Expenditure like equipments transportation charge	Rs. 1206.00
	4.	Annual insurance cover for 2 nos. breeding stock @ 6 per adult animal	Rs. 294.00
		TOTAL	Rs. 14200.00
Β.	RE	CURRING EXPENDITURE:-	
	1.	Cost of feed:-	
		a) 2.5 Kgs. for 1 no. Sow for 364 days = 910 kgs	
		i) 70% kitchen waste @ Rs. 2/Kg (637 Kg x 2 = Rs. 1274)	Rs. 1274.00
		<li>30% Concentrated feed @ Rs. 12/ Kg (273 Kg x 12 = Rs. 3275)</li>	Rs. 3275.00
		b) 2 Kgs. for 1 no. Boar for 364 days = 728 kgs	
		<li>iii) 70% kitchen waste @ Rs. 21/Kg (509 Kg x 2 = Rs. 1018)</li>	Rs. 1018.00
		iv) 30% Concentrated feed @ Rs. 12/ Kg (219 Kg x 12 = Rs. 2628)	Rs. 2628.00
		c) For weaners 0.2 kg for 16 nos. for 60 days (0.2 kgx 16x 60x12 = Rs. 2304)	Rs. 2304.00
	2.	Health coverage (L.S)	Rs. 300.00
		TOTAL	Rs.10, 800.00

Total Project Cost A + B Rs. 14,200+ Rs. 10,800 Rs. 25,000.00 (Rupees Twenty five thousand) only

#### INCOME:-

- 3) By sale of 16 nos. of piglets @ Rs. 2000/ each
- 4) By sale of manure and gunny bags (L.S)

Rs. 32,000.00 Rs. 3,000.00 TOTAL Rs. 35,000.00

(Rupees Thirty five thousand only)

#### PARAMETERS:-

Numbers of farrowing per sow/year	-	2 times
Numbers of piglets per sow/ farrowing	-	2 times
Mortality rate	-	10 %
Percentage of conc. Feed of Total feed	-	30%
Percentage of Kitchen waste of Total feet	70%	

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	Model Es	timat	e fo	or con	struction of	of c	c da	m at		1		
	Under						,fo	or the year :	20		·	
	(Rates as per PWD SOR for R,B & E&D Works,for Jowai circle,2007-08)											
1/4 (a)	Earthwo	ork ex	ca.	for fo	oundation:							
	Dam	8.00	Х	0.60	x 0.60		=	2.88 m <sup>3</sup>				
	Apron	4.00	Х	1.10	x 0.30		=	1.32 m <sup>3</sup>				
	Walls	8.00	Х	0.30	x 0.40		=	0.96 m <sup>3</sup>				
								5.16 m <sup>3</sup>	@	Rs.	$166.9 \ /m^3 = Rs$	861.20
2/6(b)	Earthwo	ork ex	ca.	for fo	oundation	for	drai	ns:				
	Canal	6	Х	0.60	x 0.60		=	2.16 m <sup>3</sup>	@	Rs.	$166.9 \ /m^3 = Rs$	360.50
3/38	Providi	ng shi	ıtte	ering v	with dress	pla	nks:					
		8.00	Х	1.50	x 2	•	=	24.00 m <sup>2</sup>	@	Rs.	232 $/m^2$ = Rs	5568.00
4/24	Providi	ng c.c	. 1:	3:6:								
	Dam	8.00	Х	0.60	x 0.60		=	2.88 m <sup>3</sup>				
		8.00	Х	0.45	x 1.50		=	5.40 m <sup>3</sup>				
	Apron	4.30	Х	0.80	x 1.50		=	5.16 m <sup>3</sup>				
		1.80	Х	0.30	x 0.15 x	2	=	0.16 m <sup>3</sup>				
	Walls	8.00	Х	0.30	x 1.50		=	3.60 m <sup>3</sup>				
	Canal	6	Х	1.80	x 0.10		=	1.08 m <sup>3</sup>				
	Deduct	4.00	Х	0.30	x 0.30		=	<u>0.36</u> m <sup>3</sup>				
								17.92 m <sup>3</sup>	@	Rs.	$2724.8 \ /m^3 = Rs$	48833.87
5/39(a)	12mm p	olaster	ring	g 1:3 :								
	Dam	8.00	Х	2.625			=	21.00 m <sup>2</sup>				
	Walls	8.00	Х	1.65			=	13.20 m <sup>2</sup>				
	Canal	6	Х	1.70			=	<u>10.20</u> m <sup>2</sup>				
								44.40 m <sup>2</sup>	@	Rs.	$78 / m^2 = Rs$	3463.20
6/21	Providing	g stone	e pi	tching	:							
		6.00	Х	1.00	x 0.30		=	1.80 m <sup>3</sup>	@	Rs.	$405 / m^3 = Rs$ (T) = Rs	<u>729.00</u> 59815.77

Say . 59,800/-

Rupees(Fiftynine thousand eight hundred)only









	Model Estimate for construction of Protection wall at,												
	Under									or the y	ear		
	(Rates as per PWD SOR roads 2007-08)												
1/6a	Earthwork in excavation for foundations:												
	28	Х			0.78	Х	0.40	=	8.68 m3	@ Rs.	85.80 /m3	= Rs.	744.74
2/18(a)	) Stone r	nason	ry in	reta	aining	wall	S:						
	28	х	,		0.78	Х	0.20	=	4.34 m3				
	28	Х	0.4	+	0.78	Х	1.50	=	<u>24.68</u> m3				
				2					29.02 m3	@ Rs.	1140.30 /m3	= Rs.	33085.80
4/24	Providii	ng cc	work	in p	prop. 1	:3:6	v						
	28	Х			0.78	Х	0.20	=	4.34 m3	@ Rs.	2724.80 /m3	= Rs.	<u>11825.63</u> 45656 18
											Say	Rs. 45	,660/-

Rupees(Fourtyfive thousand six hundred sixty)only.





Estimates for construction of Du	at	at			
under	Watersh	ed, for	r the year 20	1	
(Rate	s as per PWD SOR fo	r Roads	-2007-08)		
1/3(a) Earthwork in excavation to t	he proper grade				
2 x[ <u>30 x 26 + 4 (</u>	28 x 24 )	+	26 x	22] =	1346.67 m3
	6			0.	
	(	@ Rs.	23.25 /m3	=	Rs. 31310.00
2/14(a Cutting side drain incl. dress 30 Rm	sing grading & ren	ioval c	of spoils		
	(	@ Rs.	23.25 /m3	=	Rs. <u>697.50</u> (T)Rs. 32007.50

Say Rs. 32,000/-

Rupees(Thirtytwo thousand)only

### Dug out pond (not to scale) (All dimension in metres)



Model Estimate for construction of water harvesting pond at												
( Rates as per PVVD SUR Roads 2007-2008)												
1/4a	Earthwork in excavation for foundation:											
	CC core wall:	10.50 x	0.3	Х	0.50	=	1.58	m3	@	Rs.	166.90	= Rs 262.87
2/10	Earthwork in fi	llina:										
	Main dam:	10.50 x	<u>1.5+6.75</u> 2.0	х	3.50	=	59.72	m3				
	Deduct core w	all:			(	(-)	8.40	m3				
							51.32	m3	@	Rs.	196.80	= Rs 10099.53
3/14a	Earthwork in c	utting drain	ns:									
	Side drain:						14.00	m	@	Rs.	35.20	= Rs 492.80
4/23	Providing cc w Corewall-	vork in prop	o. 1:3:6									
	foundation:	10.50 x	0.3	х	0.50	=	1.58	m3				
	Corewall:	10.50 x	0.3+0.2	Х	3.20	=	8.40	m3				
	CC dmin:	14.00 v	2.0	v	0 10	_	2 52	m2				
	CC urani.	14.00 X	1.0	X	0.10	-	12 50	m3	Ø	Rs	2724 8	= Rs 34046 38
5/38	Providing shut	tterinas:					12.00	1110	(Le)	110.	2124.0	113 04040.00
0,00	Corewall:	10.50 x	6.7			=	69.83	m2	0	Rs.	232.0	= Rs 16199.40
									$\smile$			
6/21	Providing stor	ne pitching										
	U/S Dam:	10.50 x	4.0	Х	0.25	=	10.50	m3	@	Rs.	405.50	= Rs 4257.75
7/12	Turfing after o	Iressing th	e slope &	be	b							
	with good gras	SS SODS:	6.0		0.45	_	0.45			De	70.00	- Do 264.60
	Core-wai: d/s:	10.50 X	0.0	Х	0.15	-	9.45	1113	e w	RS.	20.00	- KS 204.00
												(1) 1/3 03023.32

Say Rs 65,600/-

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Rupees(Sixtyfive thousand six hundred)only

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#### CONSTRUCTION OF WATER HARVESTING POND

#### SCHEME FOR COMMERCIAL PIG BREEDING

(Unit Size - 1 no. Sow and 1 No. Boar)

A. Non-Recurring Expenditure:-1. Construction of pig sty with an area of 120 sq. ft for accommodation of 2 nos. Pigs @ Rs. 65/ sq. ft. with locally available material Rs. 7800.00 2. Cost of Breeding Stock:a) Cost of 1 no. Sow of 4-5 months age @ Rs. 2200/-Rs. 2200.00 b) Cost of 1 no. Boar of 5-6 months age @ 2700/-Rs. 2700.00 3. Misc. Expenditure like equipments transportation charge Rs. 1206.00 4. Annual insurance cover for 2 nos. breeding stock @ 6 per adult animal Rs. 294.00 TOTAL Rs. 14200.00 B. RECURRING EXPENDITURE -1. Cost of feed:a) 2.5 Kgs. for 1 no. Sow for 364 days = 910 kgs i) 70% kitchen waste @ Rs. 2/Kg (637 Kg x 2 = Rs 1274) Rs. 1274.00 ii) 30% Concentrated feed @ Rs. 12/ Kg (273 Kg x 12 = Rs. 3275) Rs. 3275.00 b) 2 Kgs. for 1 no. Boar for 364 days = 728 kgs 70% kitchen waste @ Rs. 21/Kg (509 Kg x 2 = Rs. 1018) iii) Rs. 1018.00 30% Concentrated feed @ Rs. 12/ Kg (219 Kg x 12 = Rs. 2628) iv) Rs. 2628.00 c) For weaners 0.2 kg for 16 nos. for 60 days (0.2 kgx 16x 60x12 = Rs. 2304) Rs. 2304.00 2. Health coverage (L.S) Rs. 300.00 TOTAL Rs.10, 800.00

Total Project Cost A + B Rs. 14,200+ Rs. 10,800 Rs. 25,000.00 (Rupees Twenty five thousand) only

#### INCOME:-

- 3) By sale of 16 nos. of piglets @ Rs. 2000/ each
- 4) By sale of manure and gunny bags (L.S)

Rs. 32,000.00 Rs. 3,000.00 TOTAL Rs. 35,000.00

## (Rupees Thirty five thousand only)

PARAMETERS:-

Numbers of farrowing per sow/ year	-	2 times
Numbers of piglets per sow/ farrowing	-	2 times
Mortality rate	-	10 %
Percentage of conc. Feed of Total feed	-	30%
Percentage of Kitchen waste of Total feed -		70%

& Vety. Ojji wspuram C&RD Die.s

**ANNEXURE IV** 

MoA, SUB COMMITTEE DETAILS ETC.

To, The Dirisional Soil and water son derwation (1) Fontia Hills Dist- (Fourai) Sub- No- abjection contificate Aba ka jing iadei ban Saheb badonterom. Katei ka phong da la kdeue hanong Mgi Ke Darbor Skrong Japangap Kabala long ha ka 22-11-2011. nge la Skim la tai baroh lang. Ba ngin don eiei ach em ban dama ne khang lad ia ka ophis jong pri Ban pyntrei ig ki skhim ha poh Sfine no ha poh Ka Area jong Ka Skrong jongengi. Dada don Kino Kino ki jing ch. Ka Shnong Kan Skim hi ka jupkep khlich ha borok kiliang. nej kyrpat iaphi berom base jongphi ban ia Kaba don Kam.

Ahuble: thibun iaphi Stila Derom iaphi:

6 Siang Shar Sources rv . shnong Lapangap 2211-2011

Stally pk form Pyllun Lapangan Elska Shillang Myntang Jaintia Hills

# DURBAR SHNONG LARNAI ELAKA NARTIANG P.O. UMMULONG JAINTIA HILLS DISTRICT: MEGHALAYA

Ref. No.....

Dated: Larnai, the.....

## NO OBJECTION CERTIFICATE

Da kane nga u Rangbah Shnong jong ka Shnong Larnal nga pynshisha ba kam don kano ka objection lane ka jingujor ei ei'ha ka ban pyntrei ia ka Project jong ka Soil Water Conservation na ka Shnong jong ngi na ka Scheme IWMPJH-VI.

Nongpynshisha

Rangbah Shnong Larnai.

Shnon Larnai Ilake Nartiang J. Hill

## OFFICE OF THE DURBAR SHNONG PDENGTALU JAINTIA HILLS DISTRICT MEGHALAYA.

### "No. Objection Certificate"

Da kane la pynshisha ba ka office jong ka Soil (Watershed) Jaintia Hills District kan pyntrei ia shibun ki Scheme hapoh u pud u sam jong ka Shnong Pdengtalu. Khamtam ha ka jingiadei bad ki nongrep bad kiwei kiwei de ki kam pynroi ha ki thain nongkyndong.

Te kumta na ka liang jongka Durbar Shnong Pdengtalu ka pdiang sngewbha ia kine ki jingiarap na ka office Soil (Watershed) bad kam don jingdawa ei ei ruh em halor ki jingpyntrei hapoh shnong poh thaw ryngkat ka jingiatiplang ka Durbar Shnong ne dkhot shnong.

Ngi kyrmen skhem ba kane ka jing wanrah scheme ka Soil ha ka shnong jongngi kan long kaba jop bad ka ba ai jingmyntoi ia ki paid nongshong shnong jong ngi.

Khublei Shibun.

Dated. 22/09/2011

M-Okhar

Pdointaise.

## OFFICE OF THE DURBAR SHNONG UMLADANG ,ELAKA NARTIANG, P.O. THADLASKEIN JAINTIA HILLS DISTRICT, MEGHALAYA

### **No-Objection Certificate**

Da kane la pynshisha ba ka Office jong ka Soil (Water shed) Jaintia Hills District kan pyntrei ia shibun ki shceme hapoh ka pud ka sam jong ka Shnong Umladang, khamtam ha ka jingiadei bad ki nongrep bad kiwei kiwei de ki kam pynroi ha ki thain nongkyndong.

Te kumta na ka liang jong ka Durbar shnong Umladang ka Pdiang sngewbha ia kine ki jing iarap na ka Office Soil (Water Shed) bad kam don jing dawa ei ei ruh em halor ki jing pyntrei hapoh shnong poh thaw ryngkat da ka jing iatip lang ka Durbar shnong ne ki Dkhot shnong.

Nga kyrmen shkem ba kane ka jing wan rah schem ka Soil ha shnong jong ngi kan long kaba jop bad kaba ai jing myntoi ia ki paid nong shong shnong jong ngi

Dated Umladang The <u>18</u>. 1( - 201

Khublei

Mynlog han

Umladang Village Elaka Nartiang