DETAILE	ED PROJECT REPORT
1. AMLYMPIAN	G 2. AMKAHOH
INTEGRA	TED WATERSHED MANAGEMENT
	PROJECT
	JH - IWMP – V
	2010-2011
	AMLAREM C&RD BLOCK
	JAINTIA HILLS DISTRICT
	MEGHALAYA





# **SUMMARY OF THE PROJECT.**

Name of the State Name of the District Name of the C & RD Block	:- :- :-	Meghalaya Jaintia Hills Amlarem	
Name of the Project	:-	Jaintia Hills – IWN	/IP-V
Total Geographical Area	:-	2494 Ha.	
Total Treatment Area	:-	2000Ha.	
Total Project Cost	:-	Rs. 300.00 Lakhs	
Project Duration	:-	5 Years	
Name of the Micro Watershed	:-	(i) Amlympiang	(ii) Amkahoh
With Name of the Villages		(i) Nongtalang	(ii) Sohkha Shnong. Sohkha Mission, Sohkha Phlang
Project Implementing Agency	:-	Soil & Water Con	servation Territorial Division, Jowai.

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# **CHAPTER I**

# **INTRODUCTION AND BACKGROUND**

## CHAPTER I INTRODUCTION AND BACKGROUND

### 1.1 **Project Background:**

The JH-IWMP-V is derived from the Amlarem C&RD Block which falls in the Jaintia Hills District. There are 2 Nos of Micro Watersheds and 4 Nos of villages. The Watersheds are (i) Amlympiang Micro–Watershed comprising the Nongtalang village within its fold and (ii) Amkahoh Micro-Watershed comprising the villages of Sohkha Shnong, Sohkha Mission and Sohkha Phlang within its boundary. Both the Micro Watersheds flows from North to South and drains at the Umngot River

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

The micro-watershed codes are (1) Amlympiang - 3C1C2c4e and (2) Amkahoh – 3C1C2c4b, as codified by the North East Space Application Centre (NESAC). The total area of the micro-watersheds is 2494 Ha.out of which 2000 hectares is 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). There are lot of scope for various types of plantations like agro-horticulture which includes Citrus, Bettle Nut and Bettle Leaves plantations 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**

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

#### 2.1 Location:

The project area under report is located in the located in the Amlarem C&RD Block, Jaintia Hills District and according to the Survey of India toposheet No.  $83\frac{C}{8}$  the micro Watershed of (i) Amlympiang is situated between North Latitude  $25^{\circ}$  11' and  $25^{\circ}$  14' and East Longitude  $92^{\circ}$  01 '30" and  $92^{\circ}$  06'30 '' and (ii) Amkahoh – North Latitude  $25^{\circ}$  11' and  $25^{\circ}$  14'30 " and East Longitude  $91^{\circ}$  59'30" and  $92^{\circ}$  05'. There are 2 Nos of Micro Watersheds and 4 Nos of Villages namely (i) Nongtalang (ii) Sohkha Shnong (iii) Sohkha Mission and (iv) Sohkha Phlang. The total area of JH-IWMP-V is about 2494 ha, out of which 2000 Ha is proposed for treatment under different Soil & Water Conservation activities. Both the Watersheds Area are located on the sides of the NH-40 (E) running form Jowai to Dawki.

### 2.2 Physiography:

The Micro Watershed of (i) Amlympiang is oval in shape having the maximum altitude of 850 mts and minimum altitude of 480 mts above means sea level and (ii) Amkahoh is irregular in shape having the maximum altitude of 815 mts and minimum altitude of 480 mts above means sea level. The general topography of all the micro watersheds is moderately to slighty steep sloping with slope varying between 10 % to 40 %. The land of all the micro watersheds under report can be divided into three physiographic units (i) Intermediate plateau with gradient above 33 % slope (ii) Lower Plateau with gradient ranges from 15 to 33 % slope (iii) Valley rolling, undulating almost flat gradient varying 1 to 15 % slope. The over all drainage pattern is excessive and normal.

### Table 2.1: Physiographic Details

Elevation (metres)	Slope Range (%)	Slope Range (%)         Order of watershed           Sub/Micro-watershed		Topography	
480 m to 850 m	10% to 40 %	Micro Watershed	Amlympiang & Amkahoh	Modarate to Steep Sloping	

- 2.3 Drainage: The major stream draining the micro-watersheds are the Amlympiang & Amkahoh rivers which both are 1<sup>st</sup> order stream flowing from north to south direction and drain at the Umngot River. The slopes of the micro-watersheds are dissected by numerous small tributaries of both Amlympiang and Amkahoh.
- 2.4 Soil: The most common texture of the Soil in the Project is reddish clayey loam with top humus layer of about 4 cm deep. The depth of Soil generally varies between 50cm and 150cm, 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	Namo of District	Name of District	Name of	Cause	Types of	Area affected	Run-off	Average soil loss
No.	Name of States		Projects	Cause	erosion	(ha)	(mm/year)	(Tonnes/ha/year)	
1	Meghalaya	Jaintia Hills	JH-IWMP-V	Water erosion					
					Sheet	NA			
				а	Sheet	NA NA			
				b	Rill	NA	1400-2200	10.5 – 32.5	
				C	Gully	NA		10.5 52.5	
				Sub total		NA			
				Wind ero	osion	NA	NA	NA	

2.5 Climate: The JH-IWMP-V is located in the Hills of Southern slopes 480 – 850 mts altitude from the mean Sea level of Agro-Climatic Sub-zone. From November to March the weather is dry, night is slightly cold and from June to October with the onset of South Western Monsoon the atmospheric temperature and humidity start rising. The mean temperature varies between maximum of 24.80<sup>o</sup>C and minimum of 8.5<sup>o</sup>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		7		8		9
	Name of State	Name of the	Area (in	Name of the	Name of the	Major soil types		Average rainfall in	Majo	or crops		
SI. No.	Name of State	Agro-climatic zone	ha)	Districts	Projects	а) Туре	b) Area (ha)	mm (preceding 5 years average)	a) Name	b)Area (ha)		
1	Meghalaya	Central Thermic Plateau 480 – 850m	2494	Jaintia Hills	JH-IWMP-V	Loam to clay Loam	2494	1215.16 mm	Bettle Nut	155		
		400 03011							Betel Leave	85		
									Citrus	110		

2.6 Agriculture: Horticulture plantation is the primary occupation of the people of the area. The people mostly planted their crops in the slopes. The size of the plantations varies between 1.00 ha to 1.50 ha. The principal horticulture crops grown are Betel Nut, Betel Leave and Citrus. The farmers also grow others horticulture cropsjack fruit, mango, pears, peach, plum, etc in their homestead garden which contribute to their income.

### Table 2.4: Crop yield and production

Crops	Area (ha)	Average Yield (Qtl) per ha.	Total Production (Qtl.)
Betel Nut	155	10-15	1550-2325
Betel Leave	85	11-15	935-1275
Citrus	110	12-15	1320-1650

- 2.7 Natural Vegetation:-The Project area is cover predominantly with mixed miscellaneous forest. The common species are:-
  - Quercus Species (Diengsning; Diengsai).
  - Castonopsis Species (Diengstap, Diengsoh ot).
  - Michelus Species (Diengrang)
  - Betula anoides (Dienglieng).
  - Schima Wallichii (Diengngan).
  - Myrica negre (Diengsoh phie)
  - Carpinus Mancany Species (Diengsohrisang).
  - The prevalent creepers are listed below:
  - Holbocilia latifolia (Soh lyngkait)
  - Embelia floribenda (Jajew).
  - Celastone feniculate (Mei-jynru).

2.8 Socio-Economic Profile: Socio- Economic Survey was conducted in all the 4 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 4 villages of JH-IWMP-V (2010-2011)

SI	Villages	No.of	Total		Sex			Agri-	•		Occupation
No.		family	Population	Male	Female	Boys	Girls	workers	Male	Female	
				Α	Α	М	Μ				
1.	Nongtalang	211	1487	253	256	486	492	625	218	276	Predominantly farmers
2.	Sohkha Shnong	97	711	129	116	233	233	358	256	245	- do -
3	Sohkha Mission	85	608	118	124	186	180	287	238	226	- do -
4	Sohkha Phlang	9	62	11	12	22	17	35	24	36	- do -
	Total-	402	2868	511	508	927	922	1305	736	783	

<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. 32,000/-year/ household, since the prime occupation of the people is plantation crop cultivation.

#### Infrastructure facilities :

- 2.1.0 *Roads:* All the villages within the Project Area are connected by metalled road.
- 2.1.1 *School:* There are 1 H/S School, 5 nos of upper primary school; 6 nos of LP Schools within the Project Area.
- 2.1.2 *Electricity:* Electricity is available in all the villages .
- 2.1.3 *Health:* There is 1 CHC in the project area.
- 2.1.4 *Water Supply:* Drinking water supply has been provided by the PHE Deptt. However, during lean season the entire population has to depend on springs available in the area as the supply is not sufficient to meet the daily requirement.
- 2.1.5 *Market:* There is a weekly market held once in a week at Dawki. However, the main market where the people sell their produce is at at law musiang Jowai.

### Table 2.5: Infrastructure Status:

Name of District	Name of Project		Parameters:	Status			
	- ,	(i)	No. of villages connected to the main road by an all-weather road.			4	
		(ii)	No. of villages provided with electricity			4	
		(iii)	No. of households without access to drinking water			-	
		(iv)	No. of educational institutions:	(P)	(S)	(HS)	(VI)
			Primary (P)/ Secondary (S)/ Higher Secondary (HS)/ Vocational				
			institution (VI)	6	-	1	Nil
		(v)	No. of villages with access to Primary Health Centre	4			
		(vi)	No. of villages with access Veterinary Dispensary	-			
Jaintia Hills	JH-IWMP- V	(vii)	No. of villages with access Post Office	4			
		(viii)	No. of village with access Banks	1			
		(ix)	No. of villages with access Markets/ mandis	2			
		(x)	No. of village with access Agro-Industries	Nil			
		(xi)	Total quantity of surplus milk		١	Jil	
			No. of milk collection centres	(U)	(S)	(PA)	(0)
			(e.g. Union (U)/ Society (S)/ Private agency (PA)/ Others (O))	Nil	Nil	Nil	Nil
		(xiii)	No. of villages with access to Anganwadi Centres			2	
		(xiv)	Any other facilities with no. of villages (please specify)			Jil	

2.9 Livestock: there are only 2 kinds of livestock farming being practiced in the area viz. Piggery & Poultry Farming

### Table 2.6: Existing livestock population

Type of Animal	Population
Piggery	469
Poultry	1255
Total	1724

### 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 : - the Horticultural crops are planted on the hill slopes.

Farming system:- A traditional type of farming;

Cropping pattern:- Multi Cropping is practiced.

## Table 2.7Land holding:

1	2	3	4	5	6				
Name of District	Name of projects	Types of Farmer	No. of households	No. of households	No. of households household		Land holding (ha)		
				nousenoid	Irrigated	Rainfed	Total		
Jaintia Hills	JH-IWMP- V	(i) Large	18	-	-	180	-		
		(ii) Small	148	-	-	276	-		
		(iii) Marginal	210	-	-	594	-		
		(iv) Landless	26	-	-	-	-		
		Sub - Total	402	-	-	1050	-		

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

1	2	3			4				5	
			Ar	Total A ea owned/ I	rea (ha) n posse:		Area	available f	for trea	tment (ha)
Name of District	Name of the Projects	CPR Particulars	Pvt. Person	Govt. (specify deptt)	PRI	Any other (community)	Pvt. Person	Govt. (specify Deptt.)	PRI	Any other (community)
Jaintia Hills	JH-IWMP-V	(i) Wasteland/ Scrub Forest				796 ha				740 ha
		(ii) Pastures								
		(iii) Private land	1050 Ha				1050			
		(iv) Village woodlot								
		(v) Forest (degraded)				342 ha				210
		(vi) Village Ponds/ Tanks								
		(vii) Community Buildings		6 nos		5 Nos				
		(viii) Weekly Markets				Dawki				
		(ix) Permanent Markets				Jowai				
		(x) Temples/ Places of worship				Church-2 nos				
		(xi) Others (Pl. specify)				306				
		Total	1050 Ha			1444 Ha	1050			950

#### 2.11 Land use and land cover :

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

Land Use			<u>Area ( in Ha)</u>
1. Agricultural land		=	-
2. Built – up area (Rural) *		=	37.00
3. Tree clad close *		=	269.00
4. Tree Clad Open *		=	1392.00
4. Waste land /Sandy		=	-
5. Waste land / open scrub *		=	796.00
	Total	=	2494.00

\* Area Estimation is based as per Field Survey Report

### 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), etc. It has resulted in low yield in almost all types of 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 depend on horticultural crops only as main source of livelihood. Others sources of livelihood like Poultry, Piggery, 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) <u>Lack of Infrastructure</u>:- 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**

#### 3.1.1 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 and 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 as per the Field Survey Report. The activities were located on the field by using GPS and accordingly transferred to the maps on GIS platform.

 Table 3.1: Details of Scientific Planning and inputs in IWMP Projects:

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

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

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

The PIA is the Soil & Water Conservation Territorial Division, Jowai Jaintia Hills District of Meghalaya. The Project Manager will be the Divisional Soil and Water Conservation Officer and will be assisted by a team of Officers 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 District	Name of Project	Details of PIA	
		1. Type of Organisation #	Government Agency
		2. Name of organization	Soil & Water Conservation
Jaintia Hills	JH-IWMP-V	3. designation & Address	Shri. D. Shallam
	JH-IVVIVIP-V	4. Telephone	9436119264
		5.Fax	03652223858
		6.Email	soildivjowai@gmail.com

### 3.3 Institution Building

### i) Watershed Committee (WC)

The Watershed Committees of the Amlympiang and Amkahoh, JH-IWMP-V were constituted with the active involvement of the villagers with strong support of the Traditional Institutions (Village Durbar/Council).

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

Names of the District	Names of projects	Names of WCs	Date of registration as a Society(dd/m m/ yyyy)	Designation	M/F	SC	ST	SF	MF	LF	Land less	UG	SHG	GP	Any other	Educational qualification	Function/s assigned#
Jaintia Hills		Amlympiang	Under process	President	М		ST							1		Х	A to I
District	JH-IWMP -V			Member	M/ F		ST	2		2			4	8		VII to X	- do-
				Secretary	М		ST								1	Diploma in Forestry	-do-
		Amkahoh	Under process	President	М		ST							1		XII	A to I
				Member	М		ST	2		2			3	9		VI to BA	do
				Secretary	М		ST								1	Diploma in Foresty	do
А	. PNP and	I PRA	•	B.	Plar	nning			•								
С	. Mainter	ance of Accounts		D.	Sigr	ning c	of cheo	ques	and r	naki	ng pay	ymen	ts				
E	. Supervis	sion of constructio	n activities	F.	Cos	t Esti	matio	n									
G	. Verificat	tion & Measureme	ent	H.	Rec	ord c	f labo	ur er	nploy	/ed							
Ι.	I. Social Audit					othe	er (ple	ase s	pecif	y).							

### 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.

1	2			3			4				5			6		
Name of District	Name of project	To	tal no. of re	egisterec	ed SHGs No. of members No. of SC/ST in each category								No. of BPL in each category			
		With only Men	With only Women	With both	Total	Categories	м	F	Total	М	F	Total	М	F	Total	
Jaintia	JH –IWMP-	-	-	2	2	(i) Landless										
Hills	V					(ii) SF	10	12	22	10	12	22				
						(iii) MF	-	-	-	-	-	-				
						(iv) LF	-	-	-	-	-	-				

 Table 3.3: Details of Self Help groups (SHGs) in the project Area:

### iii) User Group

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

### Table 3.4: User Group Details

1	2		3				4				5			6	
Name of	Name of		Total no. o	of LIGs		No	. of Men	nhors		No. of	f SC/ ST	in each	No.	of BPL in	each
District	Projects			003							categor	у		category	
	JH-IWMP	Men	Women	both	Total	Categories	М	F	Total	Μ	F	Total	М	F	Total
Jaintia	– V	-	-	-	-	(i) Landless	-	-	-	-	-	-	-	-	-
Hills						(ii) SF		-	-	-	-	-	-	-	-
						(iii) MF	-	-	-	-	-	-	-	-	-
						(iv) LF	-	-	-	-	-	-	-	-	-
Total															

# **CHAPTER IV**

# **PROJECT ACTIVITIES**

## CHAPTER IV PROJECT ACTIVITIES

### 4.1 Preparatory Phase:

### i) Entry Point Activities (EPA)

1	2	3	4	5	6	7	8	9	10	11
SI No.	State	District	Names of Project	Amount earmarked for EPA	Entry Point Activities planned	Estimated Cost	Expenditure incurred	Balance	Expected outcome	Actual outcome
1	Meghalaya	Jaintia Hills	JH-IWMP-V	12.00	1. C. C. Dam 2. Pipe line, 3. Storage Tank 4. Conservation Ponds	12.00	12.00	-	Improved domestic water supply	Portable Drinking Water

### ii) Other activities of Preparatory Phase:

1	2	3	4	5	6	7	8	9	10	11	12	13
District	Name of projects	Initiation of village level institution	Capacity building	IEC activities	Baseline survey	Hydro- geological survey	Identifying technical support agencies	Resource agree- ments	Preparation of DPR	Evaluation of DPR	Any other (please specify)	Cost incurred (Rs. In Iakhs)
Jaintia Hills	JH- IWMP-V	1.no Watershed Committee at each Watershed	Yes	Training	Participatory Rural Appraisals	Not done	Done	Done	Done	Done	-	6.00

### 4.2 Watershed Works Phase:

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

1	2	3	4	5		6							7						
						Pre Proj	ject						Proposed	Project					
	Name					Area		Auç	•	n/ repair o ructure	fexisting	Con	struction c	of new stru	ctures		Total	target	
SI. No	of	Name of Districts		51	No	irriga ted (ha)	Storage capacity m <sup>3</sup>		Area to be treated (ha)	Storage capacity		No.	Area to be treated (ha)	Storage capacity		No	Area to be treated (ha)	Stor age capa city	Estimate cost
	Meghal aya	Jaintia Hills	JH- IWMP-V	(i) Tank	-	-		-	-		-	-		-	-	-	-	-	-
				(ii)Pond	-	-	-					100	330	-	26.08	100	330	-	26.08
				(iii)Lake	-	-	-							-	-	-	-	-	-
				(iv)Check Dam	-	-						60	210	-	17.94	60	210	-	17.94
				(v) Percolation Tank	-	-		-	-		-			-		-	-	-	-
				(vi) Channel	-	-						-	-	-	-	-	-	-	-
				(vii) Protection Wall	-	-	-	-	-		-	40	60	-	9.132	40	60		9.132
			Total									200	600		53.152	200	600	-	53.152

						8					9	10
				A	chievemen	t due to pr	oject					
4	Augmentati s	on/ repair structures	of existing		Constructio	n of new s	tructures	Тс	tal achieven	nent	Change in storage capacity (Col 8-6)	Change in irrigated area (ha) Col. (8-6)
No	Area irrigated (ha)	Storage capacity	Expenditure incurred	No	Area irrigated (ha)	Storage capacity	Expenditure incurred	Area irrigated (ha)	Storage capacity	Estimate incurred		

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

1	2	3	4	5		6					7								8				9
					Pre	Pre-project		Proposed target							Achievement due to project								Chang e in
SI.	Name	Names of Districts	Names	Type of		Aroa	Augmentatio n/repair of existing recharging structures		<sup>-</sup> of g ing	Cons	Construction of new recharg-ing structures		Total target			Augmentation /repair of existing recharging structures		Constructio-n of new recharging structures		ew rging	Total achievemen t		irrigat ed area (Col.8- 6) (ha)
No	s of States		of Projects	Type of structures	No	Area irriga ted (ha)		irriga	ma	No.	Area to be irrigated ( ha)	Esti ma ted cost.	Area to be irrigateo ( ha)		N	irrigat	Expen diture incurre d	No.	irrig ated	Expen diture incurr ed	Area irrig ated (ha)	Expen diture incurr ed	
	Megh alaya	Jaintia Hills	JH- IWMP-V	(i) Open wells (ii) Bore wells (iii) Any other (pl specify)		Nil					Nil												
				Total for the project																			

### 4.2.3 Activities executed by User Groups in the Project Areas.

1	2				3			
			Majors activities of	of the UGs - Targ			Amount of	
Names of District	Names of Projects		Structure/ ac	tivity proposed	No. of UGs involved	Estimated cost In Lakh	WDF to be collected (Rs). In Lakh	
		SL.No.	Туре	No. #	Treatment (ha)			
Jaintia Hills	JH-IWMP-V	1.	Check Dam	60 nos	210		17.94	Rs. 0.90
		2.	W/H Structure	60 nos	270		19.68	Rs. 0.99
		3.	Improvement of degraded forest	2	210		7.56	Rs.0.38

4.2.4 Activities executed by User Groups in the Project Areas:

				1	4				
		Ν	lajor activities o	of the UGs- Achie	evements				
Structu	re/ activity			No.of UGs	Expenditure	No of m	andays		Amount of WDF Collected
SI.No.	Туре	No.#	Treated Area (ha)	involved	Incurred (Rs)	SC	ST F		(Rs)

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

1	2			3									
Name of	Name of		Major activities of the SHGs										
the district	Project	Name of Activity	No.of SHGs involved	Average annual income from activity per SHG									
				Rs 30,000.00									
Jaintia Hills	JH-IWMP-V	Live stock	1										
		Production and Micro Enterprises	1	Rs 40,000.00									

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

4		Ę	5		6	7		8		9	10
No. of SHGs	Total a	ssistance re (Amoun	<u> </u>		ncomo donoratod	Total annual		. of S rade	SHGs d as		No. of SHGs
given training	Loan from revolving fund	Training	Material	Others (pl. specify)	(Rs.)	Savings (Rs.)	1 11		III	sanctioned by the bank(s)	federated
1		11,000/=			66,000/=	30,000/=					
1		11,000/=			85,000/=	40,000/=					

### 4.2.7 Other activities of watershed works phase:

1	2	3			4	!	5	ť	5		7		8		9	1	0	1	1		12	13
District	Names of	Ridge	area	Drain	Drainage line		Nursery		Land		Crop		Pasture		Veterinary		nery	Non-		Any	Total cost	
	projects	treatr	tment treatment		tment	raising		Development		demonstrations		development		services		development		conventional		Horticulture, Arecanut,		incurred
																		ene	ergy	Bete	l Leaf &	(Rs. In
																				improv	Lakhs)	
																				degraded forest		
		(a) (b)		(a)	(b)	(a) (b)		(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	
Jaintia	JH-IWMP-V	120 ha	9.00	600	53.152	-	-	13 ha	2.288	40	0.40	-	-	-	-	-	-	-	-	1260	85.16	150.00
Hills										units										ha		
										(7 ha)												

### 4.2.8 Details of engineering structures in watershed works:

			Тур	e of treatm	nent	-	Type of la	nd	Executing agency			Target				Achiev			ieve	ment	
District	Project	Name of structures	(i)Ridge area( R)	(ii) Drainage line (D)	(iii) Land dev.(L)	(i) Pri- vate	(ii) Commu nity	(iii) Others (pl.specif y)		No.of units (No./ cu.m/ rmt)		Estimatec (Rs.in la	ikh)		Expected month & Year of completi on (mm/yyy y)	units (No./ cu.m/ rmt)	inc (Rs.i	urre in Ial	d kh)	Status of comp letion	month & Year of
											Μ	W	0	Total			MW	0	Т		
Jaintia Hills	JH- IWM	Contour bunding	-	-	V	-	v	-	(iii) Beneficia- ary	120 ha	-	9.00		9.00	2015						
	P-V	Peripheral bunding	√	-	-	-	√	-	do	4576 Rm		2.288		2.288	2015						
		Imp.of existing paddy filed	-	-	-		-	-		-		-		-							
		Check Dam (C.C.)		√	-	-	√	-	(i)	60 nos	7.18	10.79		17.94	2015						
		Protection wall		V	-	-	v	-	(iii) Beneficia- ry	40 nos	3.65	5.482		9.132	2015						
		Dug out pond		√	-	-	√	-	do	40 nos	-	6.40		6.40	2015						
		W/H structure (Earthen with CC canal)		√		-	√	-	(i)	60 nos	7.87	11.81		19.68	2015						
		Channel		-	-	-	-	-	-	-	-	-	-	-							
### 4.2.9 Details of engineering structures in watershed works.

							9										
							Outcome	S									
Reduction in run off (cu.m)	treated# (quintal) (ha) Pre- Post Pre- Post					Incom	ie (Rs.)			Mandays	generated			٦	No.benef	ficiaries	
		Pre- Project	Post Project	Pre- Project	Post Project	Pre- Project	Post Project	SC	ST	Others	Women	Total	SC	ST	Others	Women	Total
NA	733	1.5 – 2 m		11-15		32000 - 35000									184	192	376

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

1	2	3		4			5		6			7				8	
			Тур	e of treat	ment	Ţ	ype of Lar	nd	Executing agency			Target			Ach	ievement	
District	Project	Name of structure/ work	(i) Ridge area (R)	(ii) Draina ge line (D)	(iii) Land Dev. (L)	(i) Priva te	(ii) Com munity		(i) UG (ii) SHG (iii) Others (pl. specify	Area (ha)	No. of Plants	Estimat ed cost ( Rs. in Lakh)	Expected month & year of complrtion (mm/yyyy)	Area # (ha)	No. of Plant s	Expendi ture incurre d (Rs.in lakh)	Actual month & year of complet ion (mm/yy yy)
		Afforestation															yy)
		Regeneration															
		Agro-forestry															
		Fuel Wood															
Jaintia	JHI-	Fodder															
Hills	IWMP-V	Horticulture				√				1050	210000	77.60	2015				
		Pasture dev.															
		Nursery raising				1											
		Others (pl. specify)															

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

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

							9							
							Outcon	nes						
Reduction in run off	Produ (quir		Inco (R:		60		Mandays g		Tatal	60		No. of bene		Tatal
(cu.m)	Pre- project	Post project	Pre- project	Post project	SC	ST	Others	Women	Total	SC	ST	Others	Women	Total
NA	11-15		32000 - 35000									184	192	376

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

				Type of I	and	Executing agency		Target		Achieveme nt
District	Project	Name of Activity @	(i) private	(ii) Comm unity	(iii)Othe rs (pl. specify)	(i) UG (ii) SHG (iii) individual	Estimated cost (Rs.in lakh)	Expected month & year of completion (mm/yyyy)	Expendit ure incurred (Rs.in lakh)	month &
Jaintia	JH –IWMP	Crop demonsration	-	20 units	-	(i)	0.20	2015		
Hills		Kitchen gardening /Organic farming/compost pit	296 units	-	-	(iii)	7.40	2015		
		Ginger/Turmeric/Vegetable cultivation	-	-	-	-	-			
		Poultry/Piggery/Duckery	60 units	-	-	(ii) & (iii)	18.00	2015		
		Carpentry/Sprayer/Black Smit/Hallow Block Making	140 units	-	-	(iii)	7.00	2015		
		Grocery Shop/mushroom cultivation/Pisciculture/Mud Block making	20 units	-	-	(ii) & (iii)	6.00	2015		
		Vermi compost/Weaving	16 units	-	-	(ii)	13.60	2015		
		Tailoring	170 units	-	-	(ii) & (iii)	2.40	2015		
		Milk cow rearing	-	-	-	-	-			
		Goat rearing	-	-	-	-	-			
		Betel Nut Processing Unit	-	30 units		(ii) & (iii)	15.00	2015		

# from column no.2 no. of States: from column no.3 no. of District; 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 items – 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 re free to choose any other activity suited to the project area.

### 4.2.13 Details of allied / other activities:

						8					
					Outo	omes					
Incor	ne (Rs)		Ма	andays gei	nerated	-		No	of benefi	ciaries	
Pre- project	Post- project	SC	ST	Others	Women	Total	SC	ST	Others	Women	Total
32000 - 35000									184	192	376

### 4.3 Consolidation and withdrawal phase

Details of activities in the CPRs in the project areas:

1	2	3	4	5			6				7				
						Та	rget			į	Achiever	nent			
Name of the District	Name of project	Name (s) of the villages	CPR particular	Activity pro- posed	Target area under the activity (ha)	expenditure	Expected no. of beneficiaries	to WDF	Area treated under the activity	Expendit -ure incurred	Actual no. of benefi-		of Ma	ndays	collecte d
								( Rs)	(ha)	(Rs)	ciaries	SC	ST	F	(Rs)
Jaintia	JH-	Nongtalang	1. Water resources 2.Commu nity forest land	<ol> <li>Drinking wells</li> <li>Check Dam</li> <li>Water Harvesting Structures</li> <li>Imprvmt. of degraded forest</li> </ol>	300 ha	6.00	197	0.30							
Hills	IWMP -V	Sohkha	1. water resources 2.Commu nity forest land	<ol> <li>Drinking wells</li> <li>Check Dam</li> <li>Water Harvesting Structures</li> <li>Imprvmt. of degraded forest</li> </ol>	300 ha	6.00	179	0.30							

# **CHAPTER V**

## **PROJECT PHASING & BUDGETING**

#### ACTION PLAN OF JAINTIA HILLS I.W.M.P – V UNDER AMLAREM C&RD BLOCK 2010-2011

Name of District – Jaintia Hills District	No. of Wa	tersheds -	2 nos.		No of \	/illages –	4 Nos		Treatable	e Area = 2	2000 Ha	
Particulars			-	ratory ase		V	Vatershed	l Work Ph	ase		Consoli Withdrav	dation/ wal phase
	Budge	t Outlay	First	year	Secon	d Year	Third	l Year	Fourt	h year	Fifth	year
	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
2402 – S&WC - 800 – Other Expenditure												
<u>15 – Integrated Watershed Management Programme (IWMP)</u> 01 – Administrative Expenditure												
02 – Wages	2%	6.00	-	-	0.5%	1.50	1%	3.00	0.5%	1.50		
13 – Office Expenses	2%	6.00	-	-	0.5%	1.50	1%	3.00	0.5%	1.50		
21 – Supplies & materials	3%	9.00	-	-	0.50%	1.50	2%	6.00	0.5%	1.50		
28 – Professional Services	1%	3.00	-	-	0.25%	0.75	0.5%	1.50	0.25%	0.75		
50 – Other charges	2%	6.00	-	-	0.25%	0.75	0.5%	1.50	1.25%	3.75		
TOTAL – 01	10%	30.00	-	-	2%	6.00	5%	15.00	3%	9.00		
02 – Monitoring & Evaluation 13 – Office Expenses	1%	3.00	-	-	0.3%	0.90	0.4%	1.20	0.3%	0.90		
16 – Publication	0.5%	1.50	-	-	0.1%	0.30	0.3%	0.90	0.1%	0.30		
28 – Professional Services	0.5%	1.50	-	-	0.1%	0.30	0.3%	0.90	0.1%	0.30		
TOTAL - 02	2 %	6.00	-	-	0.5%	1.50	1%	3.00	0.5%	1.50		
03 – Entry Point Activities												
27 – Minor works/ maintenance	4%	12.00	4%	12.00	-	-	-	-	-	-		
TOTAL – 03	4%	12.00	4%	12.00	-	-	-	-	-	-		
04 – Institution & Capacity Building												
20 – Other Administrative Expenses	5%	15.00	1%	3.00	2%	6.00	1%	3.00	1%	3.00		
TOTAL – 04	5%	15.00	1%	3.00	2%	6.00	1%	3.00	1%	3.00		
05 – Preparation of Detailed Project Report												
02 – Wages	0.2%	0.60	0.2%	0.60	-	-	-	-	-	-		
13 – Office Expenses	0.2%	0.60	0.2%	0.60	-	-	-	-	-	-		
16 – Publication	0.2%	0.60	0.2%	0.60	-	-	-	-	-	-		
21 – Supplies & materials	0.4%	1.20	0.4%	1.20	-	-	-	-	-	-		
TOTAL – 05	1%	3.00	1%	3.00	-	-	-	-	-	-		
TOTAL of 01+02+03+04+05 -	22%	66.00	6%	18.00	4.5%	13.50	7%	21.00	4.5%	13.50		1

Particulars	Budget	Outlay	First y	ear	Secon	d Year	Thir	d Year	Fourt	n year	Fifth	year
	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
06 – WatershedDevelopment Works												
I – Arable Land Treatment : -												
27 – Minor works/ Maintenance												
<ul> <li>(a) Agro –Hort with Citrus fruits</li> <li>@ Rs. 8600/-per Ha</li> </ul>												
(200 Plants per ha.)	100.0 Ha	8.60										
(i) Preliminary @ Rs. 1300/- per Ha			-	-	100.0 ha	1.30	-	-	-	-	-	-
(ii) 1 <sup>st</sup> year @ Rs. 4600/- per Ha		-	-	-	-	-	-	4.60	-	-	-	-
(iii) 2 <sup>nd</sup> year @ Rs. 2700/- per Ha		-	-	-	-	-	-	-	-	2.70	-	-
(b) Contour Bunding												
@ Rs. 7500/- per Ha	120.0 ha	9.00	-	-	4.0 ha.	0.30	116.0 ha	8.70	-	-	-	-
(c) Peripheral Bunding	4576 Rm	2.288	-	-	956 Rm	0.478	2672 Rm	1.336	948 Rm	0.474		
@ Rs. 50/- per R.M	(13.0 ha)				(3.0 ha)		(7.0 Ha)		(3.0 Ha)		-	-
(d) Improvement of existing paddy												
field @ Rs. 4300/- per Ha	-	-	-	-	-	-	-	-	-	-	-	-
(e) Crop demonstration	40 units	0.40	-	-	10 units	0.10	30 units	0.30	-	-	-	-
@ Rs. 1000/- per unit	(7.0 ha)				(1.5 ha		(5.5 ha)					
TOTAL OF ARABLE LAND TREATMENT	240.0 ha	20.288	-	-	108.5 ha	2.178	124.5 ha	14.936	3.0 ha	3.174	-	-

Particulars	Budget O	utlay	First	year	Second	d Year	Thirc	Year	Four	th year	Fifth	year
	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
II – Non - Arable Land Treatment :-												
<u>27 – Minor Works : -</u>												
(a) Arecanut Plantations		07.50										
@ Rs. 7500/-per Ha (200 plants/ha	500.0 ha	37.50										
(i) Preliminary @ Rs. Rs. 1300/- per Ha			-	-	500.0 ha	6.50	-	-	-	-	-	-
(ii) 1 <sup>st</sup> year @ Rs. 5000/- per Ha			-	-	-	-	-	25.00	-	-	-	-
(iii) 2 <sup>nd</sup> year @ Rs. 1200/- per Ha			-	-	-	-	-	-	-	6.00	-	-
(b) Bettle leaves Plantations												
@ Rs. 7000/- per Ha(200 plants/ha	450.0 ha	31.50										
(i) Preliminary @ Rs. 1300/- per Ha			-	-	450.0 ha	5.85	-	-	-	-	-	-
(ii) 1 <sup>st</sup> year @ Rs. 4500/- per Ha			-	-	-	-	-	20.25	-	-	-	-
(iii) 2 <sup>nd</sup> year @ Rs. 1200/- per Ha			-	-	-	-	-	-	-	5.40	-	-
(c) Improvement of degraded forest	210.0 ha	7.57										
@ Rs. 3600/- per Ha	210.0 ha	7.56										
(i) Preliminary @ Rs. 700/- per Ha			-	-	210.0 ha	1.47	-	-	-	-	-	-
(ii) 1 <sup>st</sup> year @ Rs. 1900/- per Ha			-	-	-	-	-	3.99	-	-	-	-
(iii) 2 <sup>nd</sup> year @ Rs. 1000/- per Ha			-	-	-	-	-	-	-	2.10	-	-
TOTAL OF NON - ARABLE LAND TREATMENT	1160.0 ha	76.56	-	-	1160.0 ha	13.82	-	49.24	-	13.50	-	-

Particulars	Budget	Outlay	First	year	Secon	d Year	Third	Year	Fourt	h year	Fifth	year
	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
III – Drainage Line Treatment : -												
<u>27 – Minor works</u>												
(a) C. C. Dam @ Rs. 29900/-per each	60 nos	17.94	-	-	2 no.	0.598	44 nos	13.156	14 nos	4.186	-	-
	(210.0 ha)				(7.0 ha.)		(154.0 ha)		(49.0 ha)			
(b) Protection wall	40 nos	9.132	-	-	-	-	40 nos	9.132	-	-	-	-
@ Rs. 22830/- per each	(60.0 ha)						(60.0 ha)					
(c) Small dug out Pond	40 nos	6.40	-	-	-	-	40 nos	6.40	-	-	-	-
@ Rs. 16000/- per each	(60.0 ha)						(60.0 ha)					
(d) Water Harvesting Structures	60 nos	19.68	-	-	18 nos.	5.904	37 nos	12.136	5 nos	1.64	-	-
@ Rs. 32800/- per each	(270.0 ha)				(81.0 ha)		(166.5 ha)		(22.5 ha)			
TOTAL OF DRAINAGE LINE TREATMENT	600 ha	53.152	-	-	88.0 ha	6.502	440.5 ha	40.824	71.5 ha	5.826	-	-
TOTAL OF – 06 – DEVELOPMENT WORKS	2000 ha	150.00	-	-	1356.5 ha	22.50	569.0 ha	105.00	74.5 ha	22.50	-	-
		(50%)				(7.5 %)		(35 %)		(7.5 %)		

Particulars	Budget	Outlay	First	year	Second	l Year	Third \	/ear	Fourth	year	Fifth	n year
	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
07 – Livelihood Activities												
<u>27 – Minor works</u>												
(i) Kitchen gardening/Compost Pit												
@ 2500/- per unit	296 units	7.40	-	-	-	-	296 units	7.40	-	-	-	-
(ii) Organic farming @ Rs. 500/- per unit	-	-	-	-	-	-	-	-	-	-	-	-
(iii) Carpentry/ Sprayer/ Black Smith & Agricultural												
Implements @ Rs. 5000/- per unit	140 units	7.00	-	-	60 units	3.00	-	-	80 units	4.00	-	-
(iv) Mud brick making, hallow block making, basket making, tailoring @ Rs. 8,000/- per unit	170 units	13.60	-	-	-	-	20 units	1.60	150 units	12.00	-	-
(v) Vermi compost/weaving @ Rs. 12,500/- per unit	16 units	2.00	-	-	-	-	-	-	16 units	2.00	-	-
TOTAL OF LIVELIHOOD ACTIVITIES	-	30.00	-	-	-	3.00	-	9.00	-	18.00	-	-
08 – Production System and Micro Enterprises 27 – Minor works												
(i) Poultry/ Duckery/Piggery @ Rs. 30,000/- per unit	60 units	18.00	-	-	-	-	20 units	6.00	40 units	12.00	-	-
(ii) Grocery Shop/ Mushroom cultivation/ Pisciculture @ Rs. 30,000/- per unit	20 units	6.00	-	-	-	-	20 units	6.00	-	-	-	-
(iii) Milk cow rearing @ Rs. 40,000/- Per unit	-	-	-	-	-	-	-	-	-	-	-	-
(iv) Goat rearing @ Rs. 30,000/- per unit	-	-	-	-	-	-	-	-	-	-	-	-
(v) Betel nut Prosessing Unit @ Rs. 50,000/- per unit	30 units	15.00	-	-	6 units	3.00	6 units	3.00	18 units	9.00		
TOTAL OF PRODUCTION SYSTEM & ME	-	39.00	-	-	-	3.00	-	15.00	-	21.00	-	-
TOTAL OF (07 + 08)	-	69.00	-	-	-	6.00	-	24.00	-	39.00		

	Budget C	Outlay	Firs	t year	Second	Year	Third	Year	Fourth	n year	Fifth	year
Particulars	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
09 – Consolidation and withdrawal works 13 – Office expenses	0.5%	1.50	-	-	-	-	-	-	-	-	0.5%	1.50
16 – Publication	0.25%	0.75	-	-	-	-	-	-	-	-	0.25%	0.75
26 – Advertisement & Publicity	0.25%	0.75	-	-	-	-	-	-	-	-	0.25%	0.75
27 – Minor works/ maintenance	4 %	12.00	-	-	-	-	-	-	-	-	4 %	12.00
TOTAL - 09	5%	15.00	-	-	-	-	-	-	-	-	5%	15.00
TOTAL = Basic Activities: (01+02+03+04+05)	22%	66.00	<b>6</b> %	18.00	4.5%	13.50	7 %	21.00	4.5 %	13.50	-	-
TOTAL = Development works (06)	2000 ha (50 %)	150.00	-	-	1356.5 ha (7.5 %)	22.50	569.0 ha (35 %)	105.00	74.5 ha (7.5 %)	22.50	-	-
TOTAL = Livelihood activities and Production System and Micro Enterprises (07+08)	- (23 %)	69.00	-	-	- 2 %	6.00	- (8 %)	24.00	- (13 %	39.00	-	-
GRAND TOTAL	2000 ha (100 %)	300.00	6 %	18.00	1356.5 ha (14 %)	42.00	569.0 ha (50 %)	150.00	34.5 ha (25 %)	75.00	5 %	15.00

Dr.D.I. Kjam Dr.D.I. Kjam V.Sc. & A.H. (A.A.U.) V.Sc. & A.H. (A.A.U.) I.V R.I PGINERAS (Obs & Gynae) I.V R.I Regn. No :- MVC-043 Regn. No :- MVC-043 Th

Bantston Soll & Water Conservation Officer Cash Crop Division, A Mer Conservation C. Marine Janua Hills (I) Division Jana Jana Bott & Marier Consorvation, Bott & Marier Consorvation, Cash Crop Christon, Jonal. Meghalaya Rural Development Sorlety alaya Rural Develogment Soci (LIPH-IFAD) DMU-Jaintia Hills District Jowai, Meghalaya

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### ABSTRACT – J H – I.W.M.P – V – 2010 – 2011

YEARWISE		CENTRAL SHARE (Rs. In Lakhs)		STATE SHARE (Rs. In Lakhs)		TOTAL (Rs. In Lakh)
1 <sup>st</sup> year		16.20	-	1.80	-	18.00
2 <sup>nd</sup> year		37.80	-	4.20	-	42.00
3 <sup>rd</sup> year		135.00	-	15.00	-	150.00
4 <sup>th</sup> year		67.50	-	7.50	-	75.00
<u>5<sup>th</sup> year</u>		13.50	-	1.50	-	15.00
Total	=	270.00	-	30.00	-	300.00

Deputy Commissioner

Bullaru

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

#### WATERSHED TREATMENT PLAN OF AMLYMPIANG MICRO - WATERSHED JAINTIA HILLS – IWMP –V (2010 2011)

me of Village :- Nongtalang No. o	f Village	= 1 No			-	Treatable <i>I</i>	Area = 10	00 Ha			(Rupess in Lakh		
				aratory		Wa	tershed V	Vork Phase	e			lidation/	
Particulars				lase			-					awal phas	
	•	t Outlay		t year		nd Year		d Year		h year		h year	
	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
2402 – S&WC - 800 – Other Expenditure													
15 – Integrated Watershed Management Programme (IWMP)													
01 – Administrative Expenditure 02 – Wages	2%	3.00	-	-	0.5%	0.75	0.8%	1.20	0.7%	1.05			
13 – Office Expenses	2%	3.00	-	-	0.5%	0.75	0.8%	1.20	0.7%	1.05			
21 – Supplies & materials	3%	4.50	-	-	0.5%	0.75	1.5%	2.25	1%	1.50			
28 – Professional Services	1%	1.50	-	-	0.25%	0.375	0.5%	0.75	0.25%	0.375			
50 – Other charges	2%	3.00	-	-	0.25%	0.375	1.4%	2.10	0.35%	0.525			
TOTAL – 01	10%	15.00	-	-	2%	3.00	5%	7.50	3%	4.50			
02 – Monitoring & Evaluation													
13 – Office Expenses	1%	1.50	-	-	0.3%	0.45	0.4%	0.60	0.3%	0.45			
16 – Publication	0.5%	0.75	-	-	0.1%	0.15	0.3%	0.45	0.1%	0.15			
28 – Professional Services	0.5%	0.75	-	-	0.1%	0.15	0.3%	0.45	0.1%	0.15			
TOTAL - 02	2 %	3.00	-	-	0.5%	0.75	1%	1.50	0.5%	0.75			
03 – Entry Point Activities													
27 – Minor works/ maintenance	4%	6.00	4%	6.00	-	-	-	-	-	-			
TOTAL – 03	4%	6.00	4%	6.00	-	-	-	-	-	-			
04 – Institution & Capacity Building													
20 – Other Administrative Expenses	5%	7.50	1%	1.50	2 %	3.00	1%	1.50	1%	1.50			
TOTAL – 04	5%	7.50	1%	1.50	2 %	3.00	1%	1.50	1%	1.50			
05 – Preparation of Detailed Project Report													
02 – Wages	0.2%	0.30	0.2%	0.30	-	-	-	-	-	-			
13 – Office Expenses	0.2%	0.30	0.2%	0.30	-	-	-	-	-	-			
16 – Publication	0.2%	0.30	0.2%	0.30	-	-	-	-	-	-			
21 – Supplies & materials	0.4%	0.60	0.4%	0.60	-	-	-	-	-	-			
TOTAL – 05	1%	1.50	1%	1.50	-	-	-	-	-	-			
TOTAL of 01+02+03+04+05 -	22%	33.50	6 %	9.00	4.5%	6.75	7%	10.50	4.5%	6.75			

Particulars	Budget	Outlay	First y	ear	Secon	d Year	Thire	d Year	Fourth	n year	Fifth	year
	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
06 – WatershedDevelopment Works												
I – Arable Land Treatment : -												
27 – Minor works/ Maintenance (a) Agro –Hort with Citrus fruits												
@ Rs. 8600/-per Ha												
(200 Plants per ha.)	50.0 Ha	4.30										
(iv) Preliminary @ Rs. 1300/- per Ha			-	-	50.0 ha	0.65	-	-	-	-	-	-
(v) 1 <sup>st</sup> year @ Rs. 4600/- per Ha		-	-	-	-	-	-	2.30	-	-	-	-
(vi) 2 <sup>nd</sup> year @ Rs. 2700/- per Ha		-	-	-	-	-	-	-	-	1.35	-	-
(b) Contour Bunding												
@ Rs. 7500/- per Ha	40.0 ha	3.00	-	-	-	-	40.0 ha	3.00	-	-	-	-
(c) Peripheral Bunding	2148 Rm	1.074	-	-	298 Rm	0.149	1548 Rm	0.774	302 Rm	0.151		
@ Rs. 50/- per R.M	(6.0 ha)				(1.0 ha)		(4.0 Ha)		(1.0 Ha)		-	-
(d) Improvement of existing paddy												<u> </u>
field @ Rs. 4300/- per Ha	-	-	-	-	-	-	-	-	-	-	-	-
(e) Crop demonstration	20 units	0.20	-	-	-	-	20 units	0.20	-	-	-	-
@ Rs. 1000/- per unit	(4.0 ha)						(4.0 ha)					
TOTAL OF ARABLE LAND TREATMENT	100.0 ha	8.574	-	-	51.0 ha	0.799	44.0 ha	6.274	1.0 ha	1.501	-	-

Particulars	Budget O	Outlay	First	year	Secon	d Year	Thire	d Year	Fourt	h year	Fifth	n year
	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
II – Non - Arable Land Treatment :-												
<u> 27 – Minor Works : -</u>												l
(a) Arecanut Plantations												1
@ Rs. 7500/-per Ha (200 plants/ha	250.0 ha	18.75										
(iv) Preliminary @ Rs. Rs. 1300/- per Ha			-	-	250.0 ha	3.25	-	-	-	-	-	
(v) 1 <sup>st</sup> year @ Rs. 5000/- per Ha			-	-	-	-	-	12.50	-	-	-	-
(vi) 2 <sup>nd</sup> year @ Rs. 1200/- per Ha			-	-	-	-	-	-	-	3.00	-	-
(b) Bettle leaves Plantations												l
@ Rs. 7000/- per Ha(200 plants/ha	250.0 ha	17.50										
(iv) Preliminary @ Rs. 1300/- per Ha			-	-	250.0 ha	3.25	-	-	-	-	-	-
(v) 1 <sup>st</sup> year @ Rs. 4500/- per Ha			-	-	-	-	-	11.25	-	-	-	-
(vi) 2 <sup>nd</sup> year @ Rs. 1200/- per Ha			-	-	-	-	-	_	-	3.00	-	-
(c) Improvement of degraded forest												
@ Rs. 3600/- per Ha	100.0 ha	3.60										
(iv) Preliminary @ Rs. 700/- per Ha			-	-	100.0 ha	0.70	-	-	-	-	-	-
(v) 1 <sup>st</sup> year @ Rs. 1900/- per Ha			-	-	-	-	-	1.90	-	-	-	-
(vi) 2 <sup>nd</sup> year @ Rs. 1000/- per Ha			_	-	-	-	_	-	-	1.00	-	-
TOTAL OF NON - ARABLE LAND TREATMENT	600.0 ha	39.85	-	-	600.0 ha	7.20	-	25.65	-	7.00	-	-

Particulars	Budget Outlay		First	year	Secon	d Year	Third	l Year	Fourth	ı year	Fift	n year
	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
III – Drainage Line Treatment : -												
<u> 27 – Minor works</u>												
(a) C. C. Dam @ Rs. 29900/-per each	30 nos	8.97	-	-	1 no.	0.299	22 nos	6.578	7 nos	2.093	-	-
	(105.0 ha)				(3.5 ha.)		(77.0 ha)		(24.5 ha)			
(b) Protection wall	20 nos	4.566	-	-	-	-	20 nos	4.566	-	-	-	-
@ Rs. 22830/- per each	(30.0 ha)						(30.0 ha)					
(c) Small dug out Pond	20 nos	3.20	-	-	-	-	20 nos	3.20	-	-	-	-
@ Rs. 16000/- per each	(30.0 ha)						(30.0 ha)					
(d) Water Harvesting Structures	30 nos	9.84	-	-	9 nos.	2.952	19 nos	6.232	2 nos	0.656	-	-
@ Rs. 32800/- per each	(135.0 ha)				(40.5 ha)		(85.5 ha)		(9.0 ha)			
TOTAL OF DRAINAGE LINE TREATMENT	300 ha	26.576	-	-	44.0 ha	3.251	222.5 ha	20.576	33.5 ha	2.749	-	-
TOTAL OF – 06 – DEVELOPMENT WORKS	1000 ha	75.00	-	-	695.0 ha	11.25	270.5 ha	52.50	34.5 ha	11.25	-	-
		(50%)				(7.5 %)		(35 %)		(7.5 %)		

Particulars	Budget	Outlay	First	i year	Second	l Year	Third	Year	Fourth	n year	Fifth	year
	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
07 – Livelihood Activities												
<u>27 – Minor works</u>												
(i) Kitchen gardening/Compost Pit												
@ 2500/- per unit	148 unit	3.70	-	-	-	-	148 unit	3.70	-	-	-	-
(ii) Organic farming @ Rs. 500/- per unit	-	-	-	-	-	-	-	-	-	-	-	-
(iii) Carpentry/ Sprayer/ Black Smith & Agricultural												
Implements @ Rs. 5000/- per unit	70 units	3.50	-	-	30 units	1.50	-	-	40 units	2.00	-	-
(iv) Mud brick making, hallow block making, basket making, tailoring @ Rs. 8,000/- per unit	85 units	6.80	-	-	-	-	10 units	0.80	75 units	6.00	-	-
(v) Vermi compost/weaving @ Rs. 12,500/- per unit	8 units	1.00	-	-	-	-	-	-	8 units	1.00	-	-
TOTAL OF LIVELIHOOD ACTIVITIES	-	15.00	-	-	-	1.50	-	4.50	-	9.00	-	-
08 – Production System and Micro Enterprises 27 – Minor works												
(i) Poultry/ Duckery/Piggery @ Rs. 30,000/- per unit	30 units	9.00	-	-	-	-	10 units	3.00	20 units	6.00	-	-
(ii) Grocery Shop/ Mushroom cultivation/ Pisciculture @ Rs. 30,000/- per unit	10 units	3.00	-	-	-	-	10 units	3.00	-	-	-	-
(iii) Milk cow rearing @ Rs. 40,000/- Per unit	-	-	-	-	-	-	-	-	-	-	-	-
(iv) Goat rearing @ Rs. 30,000/- per unit	-	-	-	-	-	-	-	-	-	-	-	-
(v) Betel nut Prosessing Unit @ Rs. 50,000/- per unit	15 units	7.50	-	-	3 units	1.50	3 units	1.50	9 units	4.50		1
TOTAL OF PRODUCTION SYSTEM & ME	-	19.50	-	-	-	1.50	-	7.50	-	10.50	-	-
TOTAL OF (07 + 08)	-	34.50	-	-	-	3.00	-	12.00	-	19.50		1

	Budget O	outlay	First	year	Second	l Year	Third	l Year	Fourth	year	Fifth	year
Particulars	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
09 – Consolidation and withdrawal works												
13 – Office expenses	0.5%	0.75	-	-	-	-	-	-	-	-	0.5%	0.75
16 – Publication	0.25%	0.375	-	-	-	-	-	-	-	-	0.25%	0.375
26 – Advertisement & Publicity	0.25%	0.375	-	-	-	-	-	-	-	-	0.25%	0.375
27 – Minor works/ maintenance	4 %	6.00	-	-	-	-	-	-	-	-	4 %	6.00
TOTAL - 09	5%	7.50	-	-	-	-	-	-	-	-	5%	7.50
TOTAL = Basic Activities: (01+02+03+04+05)	22%	33.00	6%	9.00	4.5%	6.75	7 %	10.50	4.5 %	6.75	-	-
TOTAL = Development works (06)	1000 ha (50 %)	75.00	-	-	695.0 ha (7.5 %)	11.25	270.5 ha (35 %)	52.50	34.5 ha (7.5 %)	11.25	-	-
TOTAL = Livelihood activities and Production System and Micro Enterprises (07+08)	- (23 %)	34.50	-	-	- 2 %	3.00	- (8 %)	12.00	- (13 %	19.50	-	-
GRAND TOTAL	1000 ha (100 %)	150.00	6 %	9.00	695.0 ha (14 %)	21.00	270.5 ha (50 %)	75.00	34.5 ha (25 %)	37.50	5 %	7.50

Dr. D.I. Kjam Dr. D.I. Kjam A.H. (A.A.U.) V.Sc. & A.H. (A.A.U.) V.Sc. & A.H. (A.A.U.) V.Sc. & A.H. (A.A.U.) V.R.I Regn. No :- MVC-043 Regn. No :- MVC-043 m

relers Ashter Soll & Water Conservation Officer Cash Crop Division, Bott & Motor Conservations Gott & Motor Crop Christons Cash Crop Christons Meghalaya Rural Development Society Adaya Rural Development Soc (LIPH-1FAD) DMU-Jaintia Hills District Jowai. Meghalayu

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### ABSTRACT – J H – I.W.M.P – V – 2010 – 2011

### AMLYMPIANG MICRO WATERSHED

YEARWISE		CENTRAL SHARE (Rs. In Lakhs)		STATE SHARE (Rs. In Lakhs)		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		33.75	-	3.75	-	37.50
5 <sup>th</sup> year		6.75	-	0.75	-	7.50
Total	=	135.00	-	15.00	-	150.00

Deputy Committee loner JEDITIA HUIS DISUSCI,

Divisional Soil & Water Conservation Officer

Jaintia Hills (T) Division Jowel

ame of Villages : - (1) Sohkha Shnong (2) Soh	of Villages : - (1) Sohkha Shnong (2) Sohkha Mission (3) Sohkha Phlang Preparate							Treata	able Area =	1000 Ha	000 Ha (Rupess in Lak		
Particulars			-	aratory nase		-	Watershed	Work Phas	е			dation/ val phase	
	Budget	Outlay	First	t year	Secon	d Year	Third	Year	Fourth	year	Fifth	year	
	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
2402 – S&WC - 800 – Other Expenditure 15 – Integrated Watershed Management Programme (IWMP)													
01 – Administrative Expenditure 02 – Wages	2%	3.00	-	-	0.5%	0.75	0.8%	1.20	0.7%	1.05			
13 – Office Expenses	2%	3.00	-	-	0.5%	0.75	0.8%	1.20	0.7%	1.05			
21 – Supplies & materials	3%	4.50	-	-	0.5%	0.75	1.5%	2.25	1%	1.50		1	
28 – Professional Services	1%	1.50	-	-	0.25%	0.375	0.5%	0.75	0.25%	0.375			
50 – Other charges	2%	3.00	-	-	0.25%	0.375	1.4%	2.10	0.35%	0.525			
TOTAL – 01	10%	15.00	-	-	2%	3.00	5%	7.50	3%	4.50			
02 – Monitoring & Evaluation													
13 – Office Expenses	1%	1.50	-	-	0.3%	0.45	0.4%	0.60	0.3%	0.45			
16 – Publication	0.5%	0.75	-	-	0.1%	0.15	0.3%	0.45	0.1%	0.15			
28 – Professional Services	0.5%	0.75	-	-	0.1%	0.15	0.3%	0.45	0.1%	0.15			
TOTAL - 02	2 %	3.00	-	-	0.5%	0.75	1%	1.50	0.5%	0.75			
03 – Entry Point Activities													
27 – Minor works/ maintenance	4%	6.00	4%	6.00	-	-	-	-	-	-			
TOTAL – 03	4%	6.00	4%	6.00	-	-	-	-	-	-			
04 – Institution & Capacity Building													
20 – Other Administrative Expenses	5%	7.50	1%	1.50	2 %	3.00	1%	1.50	1%	1.50			
TOTAL – 04	5%	7.50	1%	1.50	2 %	3.00	1%	1.50	1%	1.50			
05 – Preparation of Detailed Project Report													
02 – Wages	0.2%	0.30	0.2%	0.30	-	-	-	-	-	-		1	
13 – Office Expenses	0.2%	0.30	0.2%	0.30	-	-	-	-	-	-		1	
16 – Publication	0.2%	0.30	0.2%	0.30	-	-	-	-	-	-		1	
21 – Supplies & materials	0.4%	0.60	0.4%	0.60	-	-	-	-	-	-		1	
TOTAL – 05	1%	1.50	1%	1.50	-	-	-	-	-	-		1	
TOTAL of 01+02+03+04+05 -	22%	33.50	6 %	9.00	4.5%	6.75	7%	10.50	4.5%	6.75		1	

### WATERSHED TREATMENT PLAN OF AMKAHOH MICRO - WATERSHED JAINTIA HILLS – IWMP – V (2010 2011)

Particulars	Budget (	Outlay	First	year	Second	d Year	Third	Year	Fourth	year	Fifth	year
	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
06 – Watershed Development Works I – Arable Land Treatment 27 – Minor works/ Maintenance (a) Agro –Hort with Citrus fruits @ Rs. 8600/-per Ha (200 plants per ha.)	50.0 Ha	4.30										
(i) Preliminary @ Rs. 1300/- per Ha			-	-	50.0 ha	0.65	-	-	-	-	-	-
(ii) 1 <sup>st</sup> year @ Rs. 4600/- per Ha		-	-	-	-	-	-	2.30	-	-	-	-
(iii) 2 <sup>nd</sup> year @ Rs. 2700/- per Ha		-	-	-	-	-	-	-	-	1.35	-	-
(b) Contour Bunding @ Rs. 7500/- per Ha	80.0 ha	6.00	-	-	4.0 ha	0.30	76.0 ha	5.70	-	-	-	-
(c) Peripheral Bunding @ Rs. 50/- per R.M	2428 Rm	1.214	-	-	658 Rm	0.329	1124 Rm	0.562	646 Rm	0.323	-	-
	(7.0 ha)				(2.0 ha)		(3.0 Ha)		(2.0 Ha)			
(d) Improvement of existing paddy field												
@ Rs. 4300/- per Ha	-	-	-	-	-	-	-	-	-	-	-	-
(e) Crop demonstration @ Rs. 1000/- per unit	20 units	0.20	-	-	10 units	0.10	10 units	0.10	-	-	-	-
	(3.0 ha)				(1.5 ha)		(1.5 ha)					
TOTAL – 06 ARABLE LAND TREATMENT	140 ha	11.714	-	-	57.5 ha	1.379	80.5 ha	8.662	2.0 ha	1.673	-	-

Particulars	Budget C	Outlay	First	year	Secon	d Year	Third	l Year	Fourth	n year	Fifth	n year
	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
II – Non - Arable Land :												
<u> 27 – Minor Works : -</u>												
(a) Bettle Nut Plantations												
@ Rs. 7500/-per Ha (200 plants/ha	250.0 ha	18.75										
(i) Preliminary @ Rs. Rs. 1300/- per Ha			-	-	250.0 ha	3.25	-	-	-	-	-	-
(ii) 1 <sup>st</sup> year @ Rs. 5000/- per Ha			-	-	-	-	-	12.55	-	-	-	-
(iii) 2 <sup>nd</sup> year @ Rs. 1200/- per Ha			-	-	-	-	-	-	-	3.00	-	_
(b) Bettle leaves Plantations												
@ Rs. 7000/- per Ha(200 plants/ha	200.0 ha	14.00										
(i) Preliminary @ Rs. 1300/- per Ha			-	-	200.0 ha	2.60	-	-	-	-	-	-
(ii) 1 <sup>st</sup> year @ Rs. 4500/- per Ha			-	-	-	-	-	9.00	-	-	-	-
(iii) 2 <sup>nd</sup> year @ Rs. 1200/- per Ha			-	-	-	-	-	-	-	2.40	-	-
(c) Improvement of degraded forest @ Rs. 3600/- per Ha	110 ha	3.96										
(i) Preliminary @ Rs. 700/- per Ha			-	-	110 ha	0.77	-	-	-	-	-	
(ii) 1 <sup>st</sup> year @ Rs. 1900/- per Ha			-	-	-	-	-	2.09	-	-	-	-
(iii) 2 <sup>nd</sup> year @ Rs. 1000/- per Ha			-	-	-	-	-	-	-	1.10	-	-
TOTAL – NON - ARABLE LAND TREATMENT	560 ha	36.71	-	-	560 ha	6.62	-	23.59	-	6.50	-	-

Particulars	Budget	Outlay	First	year	Secon	d Year	Third	Year	Fourt	h year	Fifth	year
	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
III – Drainage Line Treatment : -												
<u> 27 – Minor works</u>												
(a) C. C. Dam @ Rs. 29900/-per each	30 nos	8.97	-	-	1 no.	0.299	22 nos	6.578	7 nos	2.093	-	-
	(105.0 ha)				(3.5 ha.)		(77.0 ha)		(24.5 ha)			
(b) Protection wall	20 nos	4.566	-	-	-	-	20 nos	4.566	-	-	-	-
@ Rs. 22830/- per each	(30.0 ha)						(30.0 ha)					
(c) Small dug out Pond	20 nos	3.20	-	-	-	-	20 nos	3.20	-	-	-	-
@ Rs. 16000/- per each	(30.0 ha)						(30.0 ha)					
(d) Water Harvesting Structures	30 nos	9.84	-	-	9 nos.	2.952	18 nos	5.904	3 nos	0.984	-	-
@ Rs. 32800/- per each	(135.0 ha)				(40.5 ha)		(81.0 ha)		(13.5 ha)			
TOTAL OF DRAINAGE LINE TREATMENT	300 ha	26.576	-	-	44.0 ha	3.251	218.0 ha	20.576	38.0 ha	3.077	-	-
TOTAL OF – 06 – DEVELOPMENT WORKS	1000 ha	75.00	-	-	661.5 ha	11.25	298.5 ha	52.50	40.0 ha	11.25	-	-
		(50%)				(7.5 %)		(35 %)		(7.5 %)		

Particulars	Budget	Outlay	First	year	Second	l Year	Third	Year	Fourth	n year	Fift	n year
	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
07 – Livelihood Activities												
<u>27 – Minor works</u>												
(i) Kitchen gardening/Compost Pit												
@ 2500/- per unit	148 unit	3.70	-	-	-	-	148 unit	3.70	-	-	-	-
(ii) Organic farming @ Rs. 500/- per unit	-	-	-	-	-	-	-	-	-	-	-	-
(iii) Carpentry/ Sprayer/ Black Smith & Agricultural												
Implements @ Rs. 5000/- per unit	70 units	3.50	-	-	30 units	1.50	-	-	40 units	2.00	-	-
(iv) Mud brick making, hallow block making, basket making, tailoring @ Rs. 8,000/- per unit	85 units	6.80	-	-	-	-	10 units	0.80	75 units	6.00	-	-
(v) Vermi compost/weaving @ Rs. 12,500/- per unit	8 units	1.00	-	-	-	-	-	-	8 units	1.00	-	-
TOTAL OF LIVELIHOOD ACTIVITIES	-	15.00	-	-	-	1.50	-	4.50	-	9.00	-	-
08 – Production System and Micro Enterprises 27 – Minor works												
(i) Poultry/ Duckery/Piggery @ Rs. 30,000/- per unit	30 units	9.00	-	-	-	-	10 units	3.00	20 units	6.00	-	-
(ii) Grocery Shop/ Mushroom cultivation/ Pisciculture @ Rs. 30,000/- per unit	10 units	3.00	-	-	-	-	10 units	3.00	-	-	-	-
(iii) Milk cow rearing @ Rs. 40,000/- Per unit	-	-	-	-	-	-	-	-	-	-	-	-
(iv) Goat rearing @ Rs. 30,000/- per unit	-	-	-	-	-	-	-	-	-	-	-	-
(v) Betel nut Prosessing Unit @ Rs. 50,000/- per unit	15 units	7.50	-	-	3 units	1.50	3 units	1.50	9 units	4.50		
TOTAL OF PRODUCTION SYSTEM & ME	-	19.50	-	-	-	1.50	-	7.50	-	10.50	-	-
TOTAL OF (07 + 08)	-	34.50	-	-	-	3.00	-	12.00	-	19.50		

	Budget C	Outlay	First	year	Second	l Year	Third	l Year	Fourth	year	Fifth	year
Particulars	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
09 – Consolidation and withdrawal works												
13 – Office expenses	0.5%	0.75	-	-	-	-	-	-	-	-	0.5%	0.75
16 – Publication	0.25%	0.375	-	-	-	-	-	-	-	-	0.25%	0.375
26 – Advertisement & Publicity	0.25%	0.375	-	-	-	-	-	-	-	-	0.25%	0.375
27 – Minor works/ maintenance	4 %	6.00	-	-	-	-	-	-	-	-	4 %	6.00
TOTAL - 09	5%	7.50	-	-	-	-	-	-	-	-	5%	7.50
TOTAL = Basic Activities: (01+02+03+04+05)	22%	33.00	6%	9.00	4.5%	6.75	7 %	10.50	4.5 %	6.75	-	-
TOTAL = Development works (06)	1000 ha (50 %)	75.00	-	-	661.5 ha (7.5 %)	11.25	298.5 ha (35 %)	52.50	40.0ha (7.5 %)	11.25	-	-
TOTAL = Livelihood activities and Production System and Micro Enterprises (07+08)	- (23 %)	34.50	-	-	- 2 %	3.00	- (8 %)	12.00	- (13 %	19.50	-	-
GRAND TOTAL	1000 ha (100 %)	150.00	6 %	9.00	661.5 ha (14 %)	21.00	298.5 ha (50 %)	75.00	40.0 ha (25 %)	37.50	5%	7.50

Dr.D.I. Kjam Dr.D.I. Kjam (A.A.U.) E.V.Sc. & A.H. (A.A.U.) I.V R.I WGNDAR (Obs & Gynus) I.V R.I Regn. No :- MVC-043

Banistoni Soli & Water Conservation Officer Cash Crop Division, orlety Both & Protor Conservation, Cash Crop Civision, Jowal. Meghalaya Rural Development Society DMU-Jaintia Hills District Jowai. Meghalayu

### ABSTRACT – J H – I.W.M.P – V – 2010 – 2011

## AMKAHOH MICRO WATERSHED

YEARWISE		CENTRAL SHAR (Rs. In Lakhs)	E	STATE SHARE (Rs. In Lakhs)		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		33.75	-	3.75	-	37.50
5 <sup>th</sup> year		6.75	-	0.75	-	7.50
Total	=	135.00	-	15.00	-	150.00

Deputy Committee lonar JEDILIA HUIS DIALISCH

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

### Detail of types of areas covered under the IWMP Programme:

		Name			Proj Dura (dd/mm	tion	Area of	Project	Names of Micro watersheds &	Are	ea of the Pro	jects (Ha)		Area de	etails (ha) (	(falling wi	thin the P	rojects)
SI no	Name of state	of Districts	Names of Projects	Year of Sanction	From	То	the Projects	cost (Rs.In Lakh)	Code Nos. (As per Dolr's unique Codification)	Cultivated rainfed area	Irrigatog	Uncult waste a) Tempo rary fallow		Pvt. Agri. Land	Forest land	Com- munity Land	Others (pl. Specify)	Total Area (ha)
1	Megh alaya	Jaintia Hills	JH- IWMP-V	2010- 2011	2010	2015	2000 ha	300.00	Amlympiang 3C1C2c4e	180	-	402	-	550 Ha	100 Ha	350 Ha	-	1000 На
									Amkahoh 3C1C2c4b	175	-	394	-	500 Ha	110 Ha	390 Ha	-	1000 На

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

1	2	3			4 Funds from other sources in addition to IWMP funds									5
	Name of	IWMP	Fund	Converger	nce funds		s from other		in addition to	Insti	unds tutional nance		ners (Pl. becify)	
District	projects	Central share Rs in lakhs	State share Rs in lakhs	Name of Scheme	Amount Rs in Iakhs	Name of Private sector	Financial contri- bution	Name	Financial Contri- bution	Name	Financial Contri- bution	Name	Financial Contri- Bution	Total
Jaintia Hills	JH- IWMP-V	270.00	30.00	MGNREGS	28.50	-	-	-	-	-	-	-	-	328.05

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

				Distt. Ag	gency 's Project Ac	count detail	S	Wate	ershed Comr	nittee (WC	) account d	etails:
SI No.	Names of States	Name of Districts	Name of Projects	Name of the Bank and Branch Where Project account has been opened	Account No. (tobe obtained confidentially)	Account type (Savings/ Current/ Others)	Name & Designat ion of authoriz ed Persons who operate the Account.	Name of Watershed comm-ittee	Name of the Bank and Branch Where proje3ct account has been opened	Account number (to be obtained confident ially)	Account type (savings/ current others)	Name & Designation of authorized persons who operate the account.
1	Meghalaya	Jaintia Hills	J.H IWMP-V	SBI Ladthalaboh Jowai Branch	30977895076	Saving	Shri D.Shallam	1.Amlympiang W. C. 2. Amkahoh W. C.	Under Process	-	-	Chairman & Secretary of WC

Details of convergence of IWMP with other Schemes:

District	Name of Projects	Name of Department with scheme converging with IWMP	Fund made available to IWMP due to convergence (Rs. in lakh)	Name of activity / task/ structure undertaken with converged funds (a) Structures (b) Livelihood. (c)Land development	Reference no.of activity / task/ structure in DPR <sup>@</sup>	Level at which decision for convergence was taken <sup>s</sup>
Jaintia Hills	JH – IWMP-V	DRDA, Under MGNREGS	-	(a)	-	District level

Public – Private partnership in the IWMP Project:

	Name of	Name of Private	Туре	of agreement s	igned		ncial bution	Partners- hip	Expected		
District	Project	sector partner agency	(a) MoU	b) Contract	c)Any others (pl. specify)	IWMP	Private sector	Intervent	Outcomes	Actual outcomes	Comments
Jaintia Hills	JH – IWMP-V	-		NOT RELEVANT		-	-	-	-	-	-

# from column no.2 totals no. of State implementing the programme, from column, no 3, total no. of District; from column no. 4 total no. of project under PPP from column no.5 total no of private companies / agencies, from column no.7, total amount may be mention at the end of the table for the entire Country.

### **TO WHOM IT MAY CONCERN**

This is to certify that decision has been taken in principle for convergence of works identified under MGNREGA for convergence with IWMP Project proposed by the Divisional Soil & Water Conservation Officer (T) Division PIA of IWMP Jaintia Hills District which will be planned and executed within the parameters of MGNREGA and convergence guidelines of IWMP.

> Project Director & Addl. District Programme Coordinator DRDA Jaintia Hills District, Jowai

**CAPACITY BUILDING** 

**CHAPTER VI** 

### CHAPTER VI CAPACITY BUILDING

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

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

1	2	3	4	5	6	7	8			9		
		Name of	Full Address	Name &			Accre-			Performanc	е	
SI	Stat	the	with contact	Designation	Type of	Area(s) of specialization <sup>\$</sup>	ditation	Refer-	No. of	No. of	No. of	No. of
No	е	Training	no., website &	of the Head	Institute <sup>#</sup>	Area(s) of specialization	details	ence	trainings	trainees to	trainings	trainees
		Institute	e-mail	of Institute			uetalis	Year	assigned	be trained	conducted	trained
1		NIRD (NER)	Guwahati	Director	Central Govt.	Remote Sensing, Rural Devt.	NA					
2		SIRD	Nongsder	Director	State Govt.	Capacity Building	NA					
3	alaya	RRTC	Umran	Director	Don-Bosco	Agri-Horti, Animal Husbandry, Entrepreneurship	NA					
4	Meghalaya	ICAR	Umiam	Director	Central Govt.	Do	NA					
5		VTC	Kyrdemkulai	Director	State Govt.	Animal Husbandry	NA	2010-11	2	100	2	20
6		Fruit Garden	Shillong	Director	State Govt.	Agri-Horti, Fruit Processing	NA					

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

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

- \$ Capacity Building/ Agriculture/ Horticulture/ Animal Husbandry/ Pisciculture/ Remote Sensing/ Water conservation/ Ground water/ Forestry/ livelihoods/ entrepreneurship development/ others (pl. specify)
- <sup>@</sup> The training institutes must fulfill the conditions mentioned in the operations guidelines.
  - (i) Technical experts in fields required by IWMP
  - (ii) Past experiences
  - (iii) Annual Turnover
  - (iv) Receives funds either from the Central or State Government
  - (v) Publications
  - (vi) Not blacklisted by any Govt. organizations
  - (vii) Audited accounts
  - (viii) Organizational structure

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

1	2	3	4	5		6		7
Project	Total no. of	No. of person	No. of person to be trained during	No. of person to be trained during	Sources of Fur	nding for Training	Fund	d utilised
Stakeholder	persons.	trained so far	current financial year	current financial year	(a) DoLR	(b) Any others (State Govt)	(a) DoLR	(b) Any others ( pl. specify)
SLNA				-				
DRDA/ ZP cell				-				
PIAs	20	10		10 Nos				
WDTs	7	7		7 Nos				
UGs	-			-	(a)	(b)	2.70	0.30
SHGs	155	42		42 Nos				
WCs	36	36		36 Nos				
GPs	-			-				
Community	680	220		220 Nos				
Others (pl. specify)								

Table 6.3: Information, Education & Communication (IEC) activities for the year 10-11 as on 31/03/11 (dd/mm/yyy)*	۲

1	2	3	4	5
Activity	Executing agency	Estimated expenditure (Rs.)	Expenditure incurred (Rs.)	Outcome (may quantify, wherever possible)
Awareness		0.50	0.50	-
PRA Exercise		0.30	0.30	-
Exposure visit	SWC Div (T) Jowai	0.20	0.20	-
Capacity Building		2.00	2.00	-
**CHAPTER VII** 

**EXPECTED OUTCOME** 

# **CHAPTER VII**

# **EXPECTED OUTCOME**

Table 7.1: Employment related outcomes:

						1	1							2		
SI	Name of Village					Wages em	ploym	ent					Se	lf employ	ment	
No	Name of Village		Ν	o. of man	days			No.	of benefi	ciaries			No.	of benefi	ciaries	
		SC	ST	Others	Women	Total	SC	ST	Others	Women	Total	SC	ST	Others	Women	Total
1.	Nongtalang	-	-	32100	118750	50850	-	-	102	95	197	-	-	-	-	-
2.	Sohkha Shnong Sohkha Mission Sohkha Phlang	-	-	31500	20100	51600	-	-	82	97	179	-	-	-	-	-
	Total	-	-	63600	38850	102450	-	-	184	192	376	-	-	-	-	-

Table 7.2: Migration Details:

Names of the Districts	Names of	Name of Village	No. of persons	No. of days per year of	Major reason (s) for	Distance of destination of migration	Occupation during	Income from such occupation (Rs. In	For reduced mig major activiti respor	es of IWMP
Districts	projects		migrating	migration migrating from the village (Km)	migration	lakh)	Structures	Livelihoods		
Jaintia Hills	JH – IWMP-V	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

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

## Table 7.3: Economic benefits accrued to women:

1		2			3	4
Wages		Trainii	ng	Liveli	hoods	
Women days	Women days (Rs. In lakh)		Amount (Rs. In lakh)	No. of women beneficiaries	Value of assistance provided (Rs. In lakh)	Total (Rs. In lakh)
38850	38.85	508	2.54	274	25.82	67.21

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

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

2	3	4	5	6		7			8
Names of the	Names of the	Particular of	Nature of	Period of	Benefi	ciary details (	No. of fan	nilies)	User Charges (Rs.)
Projects	villages	CPR	right	right	SC	ST	Others	Total	
	Nongtalang	Community	F, FW,		-	197		197	Nil
	Sohkha Shnong	Forest,	Wd, Wi	Whole					
JH – IWMP - V	Sohkha Mission	Drinking wells,		years		170		170	N1:1
	Sohkha Phlang	Check Dams &			-	1/9		179	Nil
		WHS & Ponds							
	Projects	ProjectsVillagesNongtalangSohkha ShnongJH – IWMP - VSohkha Mission	ProjectsVillagesCPRNongtalangCommunitySohkha ShnongForest,JH – IWMP - VSohkha MissionDrinking wells,Sohkha PhlangCheck Dams &	ProjectsVillagesCPRrightNongtalangCommunityF, FW,Sohkha ShnongForest,Wd, WiJH – IWMP - VSohkha MissionDrinking wells,	ProjectsVillagesCPRrightrightNongtalangCommunityF, FW,Sohkha ShnongForest,Wd, WiWholeJH – IWMP - VSohkha MissionDrinking wells,yearsSohkha PhlangCheck Dams &II	ProjectsVillagesCPRrightrightNongtalangCommunityF, FW,-Sohkha ShnongForest,Wd, WiWholeJH – IWMP - VSohkha MissionDrinking wells,yearsSohkha PhlangCheck Dams &I of the state	ProjectsVillagesCPRrightrightSCSTNongtalangCommunityF, FW,-197Sohkha ShnongForest,Wd, WiWhole-197JH – IWMP - VSohkha MissionDrinking wells, Check Dams &years-179	ProjectsVillagesCPRrightrightSCSTOthersNongtalangCommunityF, FW,-197-197JH – IWMP - VSohkha ShnongForest,Wd, WiWhole-197-Sohkha MissionDrinking wells, Check Dams &Leeyears-179-	ProjectsVillagesCPRrightrightrightSCSTOthersTotalNongtalangCommunityF, FW,-197197197Sohkha ShnongForest,Wd, WiWhole-197197JH – IWMP - VSohkha MissionDrinking wells, Check Dams &Verationyears-179179

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

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

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

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

Table 7.5: Water related outcomes:

1	2	3	4	5	6	7	8
Names of	Names of	Sources	Pre-Project	Mid-term project	Post-project	Increase/decrease	Remarks
Districts	Projects	Sources	level	level	level	(Col.8-Col.6)	Kemarks
		Open wells	1.50	-	-	-	
Jaintia Hills	JH – IWMP-V	Bore wells	Nil	-	-	-	
		Others (specify)	-	-	-	-	

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

\*From column no.2, total number of States, from column no.3, total no. of Districts; from column no.4, total no. of project; from column nos.6 to 9, the average measurements, category-wise, for the entire country may be given at the end of the table. The data must be based on the average of the Ground Water Table depth collected by PIA with the help of concerned technical expert in the same sample of 10% of selected wells and bore wells in the villages in the watershed project area, during pre-project, mid-term and post-project periods.

#### Table 7.5.2: Status of Drinking water:

1	2		3			4		5
District	Name of Project	Availability of	Drinking water in a year)	(no. of month	Qua	ality of Drinking	water	Comments
District	Name of Project	Pre- project	Post- project	Change in availability	Pre-project	Post- project	Change in availability	comments
Jaintia Hills	JH-IWMP - V	7-8 months	12 months	+ 5 months	Dirty & unhygienic drinking water	-	-	

• From column no. 2 total no. of states implementing the programme, from, column no.3 total no. of District, from column no. 4 category – wise no. of project, from column no. 5 average no. of month may be given at the end of the table for the entire country.

#### Table 7.5.3: Water Use efficiency:

1	2	3		4		
				Water saving in c	u.m	
District	Name of Project	Name of major crop	Through water saving device	Through water conserving agronomic practices	Any others (pl. specify)	Total
		-	-	-	-	-
Jaintia Hills	JH-IWMP - V	-	-	-	-	-
		-	-	-	-	

• \* From column no. 2 total no. of states implementing the programme, from, column no.3 total no. of District, from column no. 4 total no. of project, from column no.6 practices – wise total may be mention at the end of the table for the entire country.

<sup>s</sup> Sprinkler, Drip PVC pipe etc.

<sup>#</sup> Vermi- Compost, Organic manuring, mulching, Check basin, alternate furrow, ridges & furrow and other scientific practices.

 Table 7.6: Vegetation/ crop related outcomes:

1	2	3				4						5						6		
					Pr	e-Project	t				Mid	-Term					Post	Proje	ct	
Names of the District	Name of Project	Name of Crops	Area	a (ha)	yiel	erage d (Qtl) /ha	pro	Total oduction (Qtl)	Are (ha		yie	(Qtl) /ha		tal lucti [Qtl)	Are (ha		yi (C	rage eld 2tl) ha	prod	otal Iuctio Qtl)
			Irri	Rf	Irri	Rf	Irri	Rf	Irri	Rf	Irri	Rf	Irri	Rf	Irri	Rf	Irri	Rf	Irri	Rf
		Nil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jaintia Hills	JH- IWMP -V	Nil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Nil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

• From column no. 2 total no. of states, from column no.3 total no. of District, from column no. 4 total no. of project, from column no.5 total no. of c rop from column no.6 to 8 the total for the area average yield per ha and total production category–wise entire country may be given at the end of the table for the

-: Irri – Irrigated, Rf- Rainfed.

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

2	3	4	5			6						-	7					8			
						Pre-Pro	oject					Mid-	Term				F	Post-Pr	oject		
Names of States	Names of the District	Name of Project	Name of Crops	Area	a (ha)	yie	ld	proc	ducti	Area	(ha)	yield	l (Qtl)	proc	lucti	Area	ı (ha)	yi€	eld	proc	tal lucti Oti)
	District		01043	Irri	Rf	Irri	Rf	Irri	Rf	Irri	Rf	Irri	Rf	Irri	Rf	Irri	Rf	Irri	Rf	Irri	Rf
			Nil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		JH-	Nil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	laintia	IWMP- V	Nil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Meghalaya			Nil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	пшз	Total for the																			
	States	Names of States Names of the District	Names of StatesNames of the DistrictName of ProjectMeghalayaJaintia HillsJH- IWMP- V Total for	Names of StatesNames of the DistrictName of ProjectName of CropsMeghalayaJaintia HillsJH- IWMP-VNil NilMeghalayaJithia HillsTotal for the	Names of StatesNames of the DistrictName of ProjectName of CropsAreaMame of OrojectIrriIrriJaintia HillsJH- IWMP- VNil-MeghalayaHillsTotal for the-	Names of StatesNames of the DistrictName of ProjectName of CropsArea (ha)IrriRfMeghalayaJaintia HillsJH- IWMP-VNil-IrriRfIVMP- VNil-IVII	Names of StatesNames of the DistrictName of ProjectName of of CropsName of Area (ha)Aver yie (Qtl)IrriRfIrriMeghalayaJaintia HillsJH- IWMP-VNilTotal for theIrriIrriIrri-	Names of StatesNames of the DistrictName of ProjectName of of CropsName of $\Lambdarea (ha)$ Average yield (Qti) /haMames of bistrictName of ProjectName of Of CropsArea (ha)yield (Qti) /haMeghalayaJH- HillsJH- IWMP-VNilMeghalayaJintia HillsJH- IWMP-VNilTotal for theIII	Names of StatesNames of the DistrictName of ProjectName of Crops $Average$ (Qtl) /haTo prod (Qtl) /haMeghalayaJaintia HillsJH- IWMP-VNilNilNilIVMP-VIVMP-VIVMP-VIVMP-	Names of StatesNames of the DistrictName of ProjectName of of CropsName (ha) $Averageyiel/(Qtl) /haTotalproduction (Qtl)IrriRfIrriRfIrriRfIrriRfMeghalayaJaintiaHillsJH-IWMP-VNilNilIVMP-VNilIVMP-VNilItheItheItheItheItheItheItheItheIthe$	Names of StatesNames of the DistrictName of ProjectName of of CropsName of Area (ha)Average yiel/ (Qtl) /haTotal producti on (Qtl)AreaMeghalayaName Illis $Name ofProjectNameofProjectNameofCropsArea (ha)IrriNerage(Qtl) /haTotalon (Qtl)Area$	Names of StatesNames of the DistrictName of ProjectName of of CropsName of of CropsName of $Area (ha)$ Average yield (Qtl)/haTotal producti on (Qtl)Area (ha)MeghalayaJaintia HillsJH- IWMP-VNil<	Names of States         Names of the District         Name of Project         Name of Crops $Average}{Vere-Project}$ Total producti (Qtl)/ha         Average}{Droducti}         Total Area (ha)         Average}Vere Vield $Average}{Droducti}$	Names of States         Names of the District         Name of Project         Name of Project         Name of Of Crops $Area (ha)$ $Average$ yiel         Total producti $Area (ha)$ $Average$ yiel $Average$ yiel $Average$ yiel $Area (ha)$ $Average$ Meghalaya         Jaintia Hills         JH- IWMP-V         Nil         -<	Names of States         Name of the District         Name of Project         Name of Crops         Area (ha) $Verageyield         Totalproducti         Area (ha)         Vield (Qtl)         Area (ha)         Vield (Qtl)         Varage         Total         Area (ha)         Vield (Qtl)         Varage         Total         Varage $	Names of States         Names of the District         Name of Project         Name of Project         Name of Project         Name of Project         Name of Project         Name of Project         Area (ha)         Name of Project         Name of P	Names of States         Name of the District         Name Project         Name of Crops         Name of Crops         Average Area (ha)         Total producti (Qtl) /ha         Average producti (Qtl) /ha         Average producti (Qtl) /ha         Total producti on (Qtl)         Average producti (Qtl) /ha         Total producti on (Qtl)         Average producti (Qtl) /ha         Average producti on (Qtl)         Total producti (Qtl) /ha         Average producti on (Qtl)         Total producti (Qtl) /ha         Average producti on (Qtl)         Total (Qtl) /ha         Average producti (Qtl) /ha         Total producti on (Qtl)         Average producti (Qtl) /ha         Total producti (Qtl) /ha         Average producti (Qtl) /ha         Total producti (Qtl) /ha         Average producti (Qtl) /ha         Total producti (Qtl) /ha         Average producti (Qtl) /ha         Average producti (Qtl) /ha         Total producti (Qtl) /ha         Average producti (Qtl) /ha         Total producti (Qtl) /ha         Total producti (Qtl) /ha         Area (ha)         Average producti (Qtl) /ha         Total (Qtl)	Names of States         Name of the District         Name of Project         Name of Crops         Name of Crops         Average Area (ha) (Qt) /ha         Total producti (Qt) /ha         Average producti on (Ut)         Average yield (Qt) /ha         Total producti on (Qt)         Average producti (Dt) /ha         Total producti on (Qt)         Average producti (Dt)         Total producti on (Qt)         Area (ha)           Meghalaya         Jaintia Hills         JH-         Nil         -	Names of States         Names of the District         Name of Project         Name of Crops         Average yiel         Total         Average yiel         Total         Average yiel<         Total         T	Names of States         Names of the District         Name of Project         Name of Project         Name of Name of Intervised (Area (ha) Viet)         Average Viet (CH) Viet (CH) Viet (CH)         Area (ha) Viet (CH)	Names of States         Name of fite District         Name of Project         Nam

• From column no. 2 total no. of states, from column no.3 total no. of District, from column no. 4 total no. of project, from column no.5 total no. of crop from column no.6 to 8 the total for the area average yield per ha and total production category–wise entire country may be given at the end of the table for the

-: Irri – Irrigated, Rf- Rainfed.

1	2	3	4	5			ć	5						7						8		
							Pre-P	roject					Mid	Term					Post-F	Projec	t	
SI	Names of	Names	Name	Name	Are		Aver	age	To	tal			Ave	rage	То	otal	Are		Ave	rage	Тс	otal
No.	States	of the	of	of	(ha		yield		prod		Area	(ha)	yie		•	uction	(ha		yie		-	ducti
140.	Juics	District	Project	Crops	, in	u)	/h	a	on (	Qtl)			(Qtl)	/ha	(C	2tl)	(in	,	(Qtl)	/ha	on	(Qtl)
					Irri	Rf	Irri	Rf	Irri	Rf	Irri	Rf	Irri	Rf	Irri	Rf	Irri	Rf	Irri	Rf	Irri	Rf
				Nil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			JH-	Nil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Jaintia	IWMP- V	Nil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	Meghalaya	Hills		Nil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		11113	Total																			
			for the		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			District																			

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

• From column no. 2 total no. of states, from column no.3 total no. of District, from column no. 4 total no. of project, from column no.5 total no. of crop from column no.6 to 8 the total for the area average yield per ha and total production category–wise entire country may be given at the end of the table for the

-: Irri – Irrigated, Rf- Rainfed.

#### Table 7.6.4: Increase/ Decrease in area under fodder:

1	2	3		4			5	
			Existing a	rea under fodd	ler (ha)		Achievement (ha)	
District	Name of Project	Duration of Project	Source/ Name of report	Year of reference	Area already under fodder	Area under fodder proposed to be covered through IWMP	Area under fodder actually covered through IWMP	Change in area under fodder
Jaintia Hills	JH- IWMP-V	5 Years	NA	NA	NA			

\*From Column no.2, total no. of States implementing the programme; from Column no.3, total no. of Districts; from column no.4, total no. of projects, from column no.6

& 7 total area in ha may be given at the end of the table for the entire Country.

 Table 7.6.5: Increase/ Decrease in Forest/vegetation cover:

1	2	3		4			5	
			Exis	ting tree cover	(ha)	l	Achievement (ha)	
District	Name of Project	Duration of Project	Source/ Name of report	Year of reference	Area already under forest/ vegetative cover	Forest/ vegetative cover area proposed to be covered under IWMP	Forest/ vegetative cover area actually covered under IWMP	Change in Forest/ vegetative cover area
Jaintia Hills	JH- IWMP-V	5 Years	Field Survey Report	2010	269 Ha	Nil	-	-

\* From column no. 2, total number of States implementing the programme, from column no. 3, total no. of Districts; from column no. 4, total no. of projects, from

column nos. 6 & 7, total area in ha may be given at the end of the table for the entire country.

Table 7.6.6: Increase/ Decrease in area under horticulture

1	2	3		4		5				
			Existing ar	ea under horti	culture (ha)	Achievement (ha)				
District	Name of Project	Duration of Project	Source/ Name of report	Year of reference	Area already under horticulture	Area under horticulture proposed to be covered through IWMP	Area under horticulture actually covered through IWMP	Change in area under horticulture		
Jaintia Hills	JH-IWMP-V	5 Years	Field Survey Report	2010	350 Ha	1050				

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

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

1	2	3		4		5				
			Existing a	rea under fuel·	wood (ha)	Achievement (ha)				
District	Name of Project	Duration of Project	Source/ Name of report	Year of         Area already         Area under fuel- wood proposed         Area under fuel- wood actually           reference         under fuel- under fuel-wood         to be covered         covered through           through IWMP         IWMP				Change in area under fuel- wood		
Jaintia Hills	JH IWMP-V	5 Years	Filed Survey Report	2010	Nil					

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

## Table 7.7: Livelihood related outcomes:

1	2	3		4			5			6		7
Name of the	Name of	Type of Animal		Pre-Project			Mid-term			Post-pro	Remarks	
District	the Project	Type of Animal	No.	Yield	Income	No.	Yield	Income	No.	Yield	Income	Remarks
		Milch-animals	Nil	Nil	Nil							
laintia Hills	JH-IWMP- V	Poultry	1255	942 kgs	1.413							
Jaintia Hills		Piggery	469	9400 kgs	14.10							
		Cow	-	-	-							
		Goat	-	-	-							
	Total for all projects		1724		15.513							
Total for all												
Districts												

Table 7.7.1: Details of livestock in the	oroiect	t areas (for fluid	s please mention in litres	for solids pl	lease mention in kas	and income in Rs.):
	010100	cuicus (ior naid	s picuse monuori mini cs	, ioi sonas pi	icuse mention in kys	

\*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 to 8, the total nos.

of animals and the average yield and incomes, category-wise, for the entire Country may be given at the end of the Table.

#### Table 7.7.2: Details of other livelihoods created for landless people:

1	2	3	4	5			6			7				8		
District	Project	Name of activity	Funds Required for the activity (Rs.)	So	urces of fu	unding (	Rs.)	Actual Expenditure incurred on activity (Rs.)	N	No. of beneficiaries trained No. of beneficiaries taking				up activity		
Jaintia Hills		Kitchen Gardening, Tailoring & Carpentry	1 352	1.2844	0.0676	-	1.352						26			

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

## Table 7.7.3: Details of other livelihoods created for landless people:

	9	10		11					
No. of perso	ons employed in	employed in		Impact of liv	elihoods programme	s			
-	n the activity	Annual increase in income due to	Migration (No.	. beneficiaries )	•	backward- forward Bages	Any other information		
Total	Grand Total (8+9)	activity (Rs.)	Pre-project	Post-project	Pre-project	Post-project	(pl.Specify)		
-	26	10000 -15000							

Table 7.7.4: Details of other livelihoods created for farmers:

1	2	3	4	5				6		7	1				8	
		Name of activity	Funds of required	Source of funding (Rs.)			Actual	No. Farmers trained				No. of Farmers taking up activity				
District	Project		for the activity (Rs.)	Project fund	Benefici -ary	Others (please. specify)	Total	Expenditure incurred on activity (Rs.)	SF	MF	LF	Total	SF	MF	LF	Total
Jaintia Hills	JH- IWMP- V	Kitchen Gardening, Compost pit, Carpentry, Tailoring, Vermi compost, etc.	28.648	27.2156	1.4324	-	28.648	-	148	210	18	376				

\*From column no.2, total no. of State, from column no.3, total no. of District; from column no. 4, no. of projects; from column no. 5, total no. of activities, from column 6, no total . of fund required for the activity, from column no. 7 to 12, category-wise total, from column no. 13 cartegory-wise total for the entire country may be given at the end of the table.

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

	9	10		1	1		12
	ons employed irectly			Impact of livelih	ood programme	<del>9</del>	
		Annual increase in	Migration (No. of beneficiaries)			t of backward- I linkage	Any other information (PI. Specify)
Total	Grand total (8+9)	income due to activity (Rs.)	Pre-project	Post-project	Pre-project	Post-project	
156	532	15000 - 20000					

#### Table 7.8: Marketing related outcomes:

# Backward-Forward linkages \*

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

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

## Table 7.9: Abstract of outcomes:

1	2	3	4	5	6	7
S. No.	State	Item	Unit	Pre-project Status	Post-project Status	Remarks
		Status of Water table		Poor		
		Ground water structures repaired/rejuvenated	No	Nil		
		Quality of drinking water		Moderately good		
		Availability of drinking water		Insufficient		
		Increase in irrigation potential	На	Nil		
		Chang in cropping/ land use pattern		Mixed		
		i Area under single crop	На	-		
		ii Area under double crop	На	-		
		iii Area under multiple crop	На	350 ha.		
		Net increase in crop production area	На	Nil		
		Increase in area under vegetation	На	Nil		
		Increase in area under horticulture	На	Nil		
		Increase in area under fuel & fodder	Ton/Day	Nil		
		Increase in milk production	Lit/yr	Nil		
		No. of SHGs	Nos	2		
		Increase in no. of livelihoods	Nos	Nil		
		Increase in income	Rs/Nos/Ha	10000-15000		
		Migration	Nos	Nil		
		No. of school going children	Nos	550		
		SHG Federations formed	Nos	Nil		
		Credit linkage with banks	Nos	Nil		
		Resource use agreements	Nos	Nil		
		WDF collection & managements	Rs	Nil		
		Summary of lessons learnt	May be attac	ched as a separate file		

#### Table 7.10: Cost effectiveness of structures/ activities\*

1 Distric	2 t Name of project	3 Name of WC	4 Name of structure/activity	5 Estimated cost (Rs.)	6 Expected quantifiable benefits (Rs.)	7 Expenditure incurred (Rs.)	8 Actual quantifiable benefit (Rs.)	9 Benefit: Cost ratio <sup>#</sup>	10 IRR
Jaintia H	IIs IWMP-V	Amlympiang WC & Amkahoh WC	As per Treatment Plan	234.00	351.00	234.00	-	1.25	-

\*From column no.2, total no. of State implementing the programme, from column no.3, total no. of District; from column no. 4, no. of projects; from column no.

5, no of WCs, fro column 6, no. of structures/ activities, fro column no. 7 to 10, category-wise# totals may be mentioned at the end of the table for the entire country.

B:C ratio more than 1 – cost effective

Less than 1- Not cost effective

ANNEXURE I MAPS








































## **ANNEXURE II**

## SOCIO-ECONOMIC SURVEY DETAILS

Socio-Economic Profile: Socio- Economic Survey was conducted in all the 4 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.

SI No.	Villages	No.of family	Total Population		Sex			Agri- workers	Lite	racy	Occupation
110.			i opulation	Male	Female	Boys	Girls		Male	Female	
				Α	A	М	М				
1.	Nongtalang	211	1487	253	256	486	492	625	218	276	
2.	Sohkha Shnong	97	711	129	116	233	233	358	256	245	
3	Sohkha Mission	85	608	118	124	186	180	287	238	226	
4	Sohkha Phlang	9	62	11	12	22	17	35	24	36	
	Total-	402	2868	511	508	927	922	1305	736	783	

Table showing the population, sex, agri-workers and occupation of 4 villages of JH-IWMP-V (2010-2011)

<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. 32,000/-year/ household, since the prime occupation of the people is Agriculture (Mono- agriculture).

# 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:

<ul> <li>I. Site clearance 3 man days @Rs.100/-per man day</li> <li>II. Pit digging (pit size 0.45mx0.45mx0.45m) 200 Nos. @Rs.5/-each</li> </ul>	-  TOTAL =	Rs.300.00 <u>Rs.1,000.00</u> Rs.1,300.00
B. <u>First year planting</u> :		
I. Cost of planting materials		
200Nos. @Rs.10/-each	-	Rs.2,000.00
II. Cost of planting 200 Nos. @Rs.3/-each	-	Rs. 600.00
III. Weeding two times 20 man days		
@Rs.100/- per man day.	-	Rs.2,000.00
	TOTAL =	Rs. 4,600.00
C. Second year planting:		
I. Refilling vacancy (10%)	-	Rs. 360.00
II. Weeding two times 20 mandays		
@Rs.100/-per man day	-	Rs.2,000.00
III. Plant protection measures including cost		
of chemical	-	<u>Rs. 340.00</u>
	TOTAL =	Rs.2,700.00
Grand Total A+B+C = Rs.1300.00+Rs.4600.00+Rs.270	0.00 =	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	<u>- Rs.800.00</u> 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	<u>- Rs.2,000.00</u> 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	<u>- Rs.2,000.00</u> TOTAL = Rs.2,370.00
Grand Total A+B+C = Rs.1100.00+Rs.4880.00+Rs.2370.0	0 = Rs.8,350.00

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

### MODEL COST NORMS PER HECTARE FOR BETEL NUT PLANTATIONS (INTEGRATED WATERSHED MANAGEMENT PROGRAMME)

-	Spacing-8m x 6.3mPlant Density -200 Nos.					
A.	<u>Prelimin</u> L	ary Works: Site clearance				
		3 man days @Rs.100/-per man day		- Rs. 300.00		
	II.	Pit digging (pit size 0.45mx0.45mx0.45m)				
		200 Nos. @Rs.5/-each		<u>- Rs. 1,000.00</u>		
			TOTAL	= Rs. 1,300.00		
B.	First year	r planting:				
	I.	Cost of planting materials				
		200Nos. @Rs.10/-each		- Rs. 2,000.00		
	II.	Cost of planting 200 Nos. @Rs.5/-each		- Rs. 1,000.00		
	III.	Weeding two times 20 man days				
		@Rs.100/- per man day.		<u>- Rs. 2,000.00</u>		
			TOTAL	= Rs. 5,000.00		
C.	Second y	ear planting:				
	I.	Refilling vacancy (10%)		- Rs. 200.00		
	II.	Weeding ONE times 10 mandays				
		@Rs.100/-per man day		<u>- Rs. 1,000.00</u>		
			TOTAL	= Rs. 1,200.00		

Grand Total A+B+C = Rs. 1300.00 + Rs. 5000.00 + Rs. 1200.00 = Rs. 7,500.00

#### (Rupees seven thousand five hundred) only.

### <u>MODEL COST NORMS PER HECTARE FOR BETTLE LEAVES PLANTATIONS</u> (INTEGRATED WATERSHED MANAGEMENT PROGRAMME)

Spacing – 8m x 6.3m Plant Density – 200 Nos.

#### A. Preliminary works:

	I. Site clearance 5 man days @ Rs.100/- man day		- Rs. 500.00
	II. Pit digging (Pit size 0.40m x 0.40m x 0.40m)		<b>D</b>
	20 <u>0 Nos. @Rs.4/-each</u>		<u>- Rs. 800.00</u>
		TOTAL	- Rs. 1,300.00
В.	First year planting:		
	I. Cost of planting materials 200 Nos.		
	@Rs.7.50/-each		- Rs. 1,500.00
	II. Cost of planting 200 Nos. @ Rs.5/- each		- Rs. 1,000.00
	III. Weeding two times 20 mandays		
	@ Rs.100/- per manday		- Rs. 2,000.00
		TOTAL	- Rs. 4,500.00
			,
C.	Second year planting:		
	I. Refilling vacancy (10%)		- Rs. 200.00
	II. Weeding 1 (one) time 10 mandays		
	@ Rs.100/-per manday		- Rs. 1,000.00
	C Rollow por manday	TOTAL	- Rs. 1,200.00
		IOIAL	1.5. 1,200.00

Grand Total A+B+C = Rs.1300.00+Rs. 4500.00+Rs. 1200.00 = Rs. 7,000.00

(Rupees seven thosuand) 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 - 300 Nos.

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

I. Jungle clearance etc., 5 man days @Rs.100/-per man day	- Rs.500.00
II. Pit digging (Pit size 0.30mx0.30mx0.30m) 300Nos. @Rs.4/-each	- Rs.1,200.00
	TOTAL = Rs.1,700.00
B. <u>First year planting</u> :	
<ul> <li>Cost of planting materials 300Nos.</li> <li>@Rs.8/-each</li> </ul>	- Rs.2,400.00
II. Cost of planting 300 Nos. @Rs.2/-each	- Rs. 600.00
III. 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>- Rs. 500.00</u> TOTAL: Rs.5,500.00
C. <u>Second year planting</u> :	
I. Vacancy refilling (10%)	- Rs. 400.00
II. Weeding two times 20 mandays @Rs.100/-per man day	- Rs. 2,000.00
III. 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

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

TOTAL =	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

 $500mx \frac{0.5+1.0}{2}mx0.77m = 288.5m^3 @Rs.26.00/-m^3 .... Rs. 7,500.00$ 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>

@Rs.26.00/-per m<sup>3</sup>

.... Rs.4,329.00

TOTAL:Rs.4,329.00

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 m
Bottom width	= 1.0 m
Height	= 0.9 m

Length = 10 m

1/3.11 Providing dry stone masonry walls etc.

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

 $1mx \frac{1.00 + 0.7}{2} x1.2m = 1.02m^3 @Rs.26.00/-per m_3^3 .... Rs. 26.52$ 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

Terrace width	= 1.2 m
Terrace Height	= 1.2 m
Terrace Length	= 1.2 m
Spacing of Boxes	= 6m x 5m
No. of Box/Hectare	= 334 Nos.

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. <u>Pre</u>	eliminary works:		
I.	Site clearance 3 mandays @Rs.100/-per man day		Rs.300.00
II.	Pit digging (Pit size 0.30mx0.30mx0.30m) 100 Nos. @Rs.4/-each		Rs.400.00
		TOTAL =	Rs.700.00
B. <u>Fir</u>	st year Planting:		
I.	Cost of planting materials 100Nos. @Rs.8/-each		Rs.800.00
II.	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	 TOTAL =	<u>Rs.400.00</u> Rs.1,900.00
C. <u>Se</u>	econd year planting:		
I.	Refilling vacancy (10%)		Rs.100.00
II.	Round weeding around the plant four times 5 man days @Rs.100/-per man day		Rs.500.00
III.	Fire protection measures 4 man days		Dc 400 00
	@Rs.100/-per man day	TOTAL =	Rs.400.00 Rs.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.

#### MODEL NORMS PER HECTARE OF STRIP PLANTATION TWO ROWS ALONG THE BOUNDARY WITH FAST <u>GROWING SPECIES</u> (INTEGRATED WATERSHED MANAGEMENT PROGRAMME)

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

#### Spacing 6m from plant to plant 2.5m from row to row

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

I. Site clearance 2 man days @Rs.100/-per man day		Rs.200.00
II. Pit digging (Pit size 0.30mx0.30mx0.30m) 134 Nos. @Rs.4/-each		Rs.536.00
	TOTAL =	Rs.736.00
B. <u>First year Planting</u> :		
I. Cost of planting materials 134Nos.		
@Rs.8/-each		Rs.1072.00
II. Cost of planting 134Nos. @Rs.2/-each		Rs.268.00
III. Round weeding around the plant two times		
6 man days @Rs.100/-per man day.		Rs.600.00
IV. Fire protection measures 4 man days		
@Rs.100/-per man day	<u></u>	Rs.400.00
	TOTAL:	Rs.2,340.00
C. <u>Second year planting</u> :		
I. Refilling vacancy (10%)		Rs.190.00
II. Round weeding around the plant two times		
6 man days @Rs.100/-per man day		Rs.600.00
III. Fire protection measures 4 man days		
@Rs.100/-per man day		Rs.400.00
	TOTAL =	Rs.1,190.00
Grant Total A+B+C = Rs.736.00+Rs.2340.00+Rs.1190.0	00 =	Rs.4,266.00

(Rupees four thousand two hundred sixty six) 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.

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

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

Rs.1	3,795.00
------	----------

- 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.

(The rate b	based as per PWD Schedule of rate for Reads, bridges and E&D Works 2008 – 2009)	
1/5 (a)	Earthwork in excavation for abutment and wing walls of bridges and culverts, we the desired etc complete. $1 \times 5.80 \times 1.00 \times 0.50 = 2.90 \text{ m}^3$ $\underline{1 \times 4.85 \times 1.50 \times 0.30} = 2.18 \text{ m}^3$ $5.08 \text{ m}^3 @ \text{Rs. } 124.00/\text{m}^3$	up to = Rs. 629.92
2/26	Providing cement concrete work in prop 1:4:8 with hard broken stone aggregate mm etc complete. 1×5.80×1.00×0.10 = 0.58m <sup>3</sup> @ Rs. 2136.00/m <sup>3</sup>	es 40 = Rs. 1236.88
3/41(a)	Providing shuttering with dressed planks not less than 25mm thick etc complete. $1 \times 5.80 \times 1.10 = 6.38m^{2}$ $1 \times 5.80 \times 1.20 = 6.96m^{2}$ $2 \times 3.50 \times 0.40 = 2.80m^{2}$ $1 \times 7.85 \times 0.05 = 0.39m^{2}$ $= 16.53m^{2}$ @ Rs. 295.00/m <sup>2</sup>	= Rs. 7876.35
4/28	Providing cement concrete work in abutments, wing walls etc complete $1 \times 5.80 \times 1.00 \times 0.40 = 2.32m^2$ $1 \times 5.80 \times \frac{1.00 + 0.50}{2} \times 1.10 = 4.78m^3$ $2 \times 1.50 \times 0.50 \times 0.40 = 0.60m^3$ $\underline{1 \times 4.85 \times 1.50 \times 0.10 = 0.73m^3}_{= 8.43m^3}$ @ Rs. 2344.00/m <sup>3</sup>	= Rs. 19759.92
5/24	Providing stone pitching with one man size boulder not less than 25cm× 30cm et complete 1×4.85×1.50×0.25 = 1.82m <sup>3</sup> @ Rs. 512.00/m <sup>3</sup>	erc =Rs. 931.84
6/27	Providing 12mm thick cement plastering including cleaning surface etc complete $1 \times 5.80 \times 1.10 = 6.38m^2$ $1 \times 5.80 \times 1.20 = 6.96m^2$ $2 \times 3.50 \times 0.40 = 2.80m^2$ $1 \times 5.80 \times 0.50 = 2.90m^2$ $1 \times 4.85 \times 1.50 = 7.28m^2$ $2 \times 20000000000000000000000000000000000$	
	= 26.32m <sup>2</sup> @ Rs. 93.00/m <sup>2</sup>	= Rs. 2447.76 = Rs. 29884.67
	Say Rs. 29,900.00	

(Rupees twenty Nine thousand nine hundred) only

### MODEL ESTIMATE FOR CONSTRUCTION OF C.C CHECK DAM

#### MODEL ESTIMATE FOR CONSTRUCTION OF WATER HARVESTING STRUCTURE

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

Name of Beneficiary

Name of Location/Village -

1/5 (a) Earthwork in excavation for abutment and wing walls of bridges and culverts, up to the desired founding level including dewatering, bailing out of water and protecting the foundation sides by adequate shoring, scaffolding and including leveling the foundation longitudinally and transversely etc.

1 x 6.00 x 1.00 x 0.50	=	3.00 m <sup>3</sup>
1 x 1.90 x 1.50 x 0.35	=	0.99 m <sup>3</sup>
1 x 1.90 x 0.20 x 0.30	=	0.11 m <sup>3</sup>
		4.10 m <sup>3</sup>
	0	Rs.124.00/m <sup>3</sup>

2/26 Providing cement concrete work in proportion 1.4:8 with hard broken stone aggregates 40mm down graded, including necessary carriage of stone and sand within a distance of 200m and curing, complete as directed.

1 x 6.00 x 1.00 x 0.10	=	0.60 m <sup>3</sup>	
	@ F	Rs.2136.00/m <sup>3</sup>	

3/41 Providing shuttering with dressed planks not less than 25mm thick properly joined including battens, props to the proper level and removing the same after the concrete hardened.

1 x 6.00 x 1.10	$= 6.60 \text{ m}^2$
1 x 6.00 x 1.20	$= 7.20 \text{ m}^2$
2 x 5.00 x 0.40	$= 4.00 \text{ m}^2$
4 x 1.70 x 0.30	$= 2.40 \text{ m}^2$
4 x 1.20 x 0.30	= 1.44 m <sup>2</sup>
4 x 0.40 x 0.30	$= 0.48 \text{ m}^2$
2 x 1.20 x 0.20	$= 0.48 \text{ m}^2$
2 x 0.40 x 0.20	$= 0.16 \text{ m}^2$
2 x 1.90 x 0.20	$= 0.76 \text{ m}^2$
	23.16 m <sup>2</sup>
	@ Rs.295.00/m <sup>2</sup>

4/28 Providing cement concrete work in abutments, wing walls and return walls in proportion 1:3:6 with hard broken stone aggregates 40mm down graded including necessary carriage of stone and sand within a distance of 200m etc.

1 x 6.00 x 1.00 x 0.40	=	2.40 m <sup>3</sup>
$1 \times 6.00 \times \frac{1.00 + 0.50}{2} \times 1.10$	=	4.95 m <sup>3</sup>
2 x 2.25 x 0.50 x 0.40	=	0.90 m <sup>3</sup>
2 x 1.70 x 0.50 x 0.20	=	0.34 m <sup>3</sup>
2 x 1.20 x 0.30 x 0.20	=	0.14 m <sup>3</sup>
2 x 0.40 x 0.30 x 0.20	=	$0.05 m^{3}$
1 x 1.90 x 0.50 x 0.20	=	0.19 m <sup>3</sup>
1 x 1.90 x 1.50 x 0.10	=	$0.28 \text{ m}^3$
		9.25 m <sup>3</sup>
	@ Rs	.2344.00/m <sup>3</sup>

Rs. 508.40

Rs. 1281.60

Rs. 6832.20

Rs.21682.00

5/24

0

Providing stone pitching with one man size boulders not less than 25cm X 25cm X 30cm long including filling the interstices with spoils and carriage of stone within a distance of 200m complete as directed.

1 x 1.90 x 1.50 x 0.25	=	0.71 m <sup>3</sup>
	@ Rs.	$512 \ 00/m^3$

Rs. 363.52

6/27 Providing 12mm thick cement plastering including cleaning surface, curing and carriage of sand within 200m complete.

1 x 6.00 x 1.10	=	6.60 m <sup>2</sup>		
1 x 6.00 x 1.20	=	7.20 m <sup>2</sup>		
2 x 5.00 x 0.40	=	4.00 m <sup>2</sup>		
4 x 1.70 x 0.30	=	$2.04 \text{ m}^2$		
4 x 1.20 x 0.30	=	$1.44 \text{ m}^2$		
4 x 0.40 x 0.30	=	0.48 m <sup>2</sup>		
2 x 1.20 x 0.20	=	0.48 m <sup>2</sup>		
2 x 0.40 x 0.20	=	0.16 m <sup>2</sup>		
2 x 1.90 x 0.20	=	0.76 m <sup>2</sup>		
		23.16 m <sup>2</sup>		
	@	Rs.93.00/m <sup>2</sup>		Rs. 2153.88
	-		TOTAL	Rs.32821.60
				110.02021.00

Say Rs.32,800.00

(Rupees Thirty two thousand eight hundred) only.

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

С.	CAR	PITA	L EXPENDITURE		
	1.	Cos	st of construction of shed of 25 sq. ft. covered room @ Rs. 12	0/sq.ft	
		and	100 sq. ft. range area @ 60/sq. ft.		Rs.9000.00
	2.	Cos	st of equipments like Feeds, drinking water, etc. (L.S)		Rs. 775.00
	3.	Mis	sc. expenditure including transportation cost		Rs. 800.00
			TOT	TAL Rs	. 10,575.00
Β.	REC	URF	RING EXPENDITURE		
	1.	Cos	st of 50 nos. 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. 285)		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. 630)		Rs. 630.00
			ii) 30% Concentrated feed @ Rs. 17.50/Kg (90Kgx17.50		Rs.1575.00
		c)	Layer mash to be supplied for 5 months and remaining period	bd	
			of feeding for laying will be borne by the beneficiaries		
			(50x120gmsx150days=900kgs)	- 1	
			i) 70% kitchen waste @ Rs. 3/Kg (630 Kg x 3 = Rs. 1890	,	Rs. 1890.00
	2	~	ii) 30% Concentrated feed @ Rs. 17.50/Kg (270Kgx17.5	0=Rs.4725)	
			ost of medicines		Rs.1000.00
	4.		ist of Insurance @3% par bird. The bird will be insured at the	0	
	ofe	5-17	months when the bird attained 2-2.5kgs live weight @ Rs. 14	¥/kg	Rs. 420.00
				TOTAL	<u>Rs. 14,425.00</u>
Total E	VDO	aditu	ure A+B	*	
TOTAL	.vhei	unu	IC ATD		

Rs. 10,575 + Rs. 14,425

Rs. 25,000.00 (Rupees Twenty five thousand) only

#### INCOME:-

1.	By sale of 23 nos. of Cockerels @ Rs. 140/Weighing 2.5-3kgs/each	Rs. 9660.00
2.	By Sale of 4238 nos. of Eggs @ Rs. 5/egg	Rs.21,190.00
3.	By sale Culled hen weighing 1.8-2 kgs Rs. 140/kg	Rs. 6440.00
4.	Sale of manure, gunny bags, etc (LS)	Rs. 500.00
		TOTAL Rs.37, 790.00
	(Rupees thirty seven thousand seven	hundred ninety only)

#### PARAMETERS:-

Weighing of cockerels Weighing of Culling hen Breakage % Rate of mortality Laying capacity 2.5 - 3 kg
1.8 - 2 kg
3%
Grower -5 % Layer - 1%
180 - 200/ egg/bird

J. L Dr. VP A.11 &

#### 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 70% kitchen waste @ Rs. 2/Kg (637 Kg x 2 = Rs. 1274) i) Rs. 1274.00 30% Concentrated feed @ Rs. 12/ Kg (273 Kg x 12 = Rs. 3275) ii) Rs. 3275.00 b) 2 Kgs. for 1 no. Boar for 364 days = 728 kgs iii) 70% kitchen waste @ Rs. 21/kg (509 kg x 2 = Rs. 1018) 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 A + B

Total Project Cost

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 Offi wspuram C&RD Dick

## **ANNEXURE - IV**

MoA, SUB – COMMITTEES , ETC.

## OFFICE OF THE NONGTALANG VILLAGE DURBAR NONGTALANG AMLAREM SUB-DIVISION JAINTIA HILLS DISTRICT

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## No Objection Certificate.

This is to certify that Nongtalang Village Durbar has no objection to the Soil & Water Conservation Department of Meghalaya to implement the Integrated Watershed Management Programme (IWMP) under Amlympiang Micro- Watershed (JH–IWMP-V) falling within the jurisdiction of Nongtalang Village.

AINTL HILLS DISTRIC; MECHALAVA-793169

#### ANNEXURE - I

Certified that the Amlympiang Micro-Watershed (JH-IWMP-V) comprising within its fold the Nongtalang village falls under Amlarem C & R D Block and possesses lands more than 2000 Hectares which may be taken up for treatment with various developmental Scheme under the Integrated Watershed Management Programme (IWMP) by the Soil & Water Conservation Department, Jaintia Hills Division (T).

READMAN

#### ANNEXURE - II

This is to certify that Amlympiang Micro-Watershed (JH-IWMP- V) has been selected based on the following criteria:-

- (a) That the watershed has a population of Schedules Tribes only.
- (b) That it has a preponderance of Wastelands and Degraded Lands.
- (c) That it had a preponderance of Common Lands.
- (d) That it has acute shortage of drinking water.
- (e) That the people of the Watershed had assured of their full participation during the implementation of the programme as well as for the operation and maintenance of the assets created after the handing over of the land.
- (f) That the common profit will be shared amongst all with in the villages including the weaker section, women and the landless

HEADMAN ONGTALANG VILLAGE JAINTL HILLS DISTRIC'; MEGHALAYA-79316?

### RESOLUTIONS ADOPTED BY THE GENERAL MEETING OF NONGTALANG VILLAGE DURBAR

A General Meeting of Nongtalang Village Durbar which was held on the 23<sup>rd</sup> Nov. 2010 has unanimously adopted the following resolutions.

- 1. To form the Amlympiang Watershed Committee for implementing the Scheme Integrated Watershed Management Programme (IWMP)
- 2. That the Secretary of the Watershed Committee will be an officer from the Office of the Soil & Water Conservation Department, Jaintia Hills Division (T) Jowai and the Chairman of the Watershed Committee will be a person from the Nongtalang village.
- 3. The village will extend all possible help to the Soil & Water Conservation Department while implementing the Integrated Watershed Management Programme (IWMP) in the Watershed area.
- 4. That the village have got land more than 2000.00 Hectares to be treated under various Soil & Water Conservation Works.
- 5. That the Village Durbar will take over and maintain all assets created by at the close of the Project.
- 6. That the common profit will be shared amongst all with in the villages including the weakers section, women and the landless.

HEADMAN ONGTALANG VILLAGF JAINTL HILLS DISTRIC'; MECHALAVA-79316°

## OFFICE OF THE DURBAR PYLLUN OF SOHKHA SHNONG, SOHKHA MISSION & SOHKHA PHLANG VILLAGES AMLAREM SUB-DIVISION JAINTIA HILLS DISTRICT

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### No Objection Certificate.

This is to certify that Durbar Pyllun of three villages comprising of Sohkha Shnong, Sohkha Mission & Sohkha Phlang has no objection to the Soil & Water Conservation Department of Meghalaya in implementing the Integrated Watershed Management Programme (IWMP) under Amkahoh Micro- Watershed (JH–IWMP-V) falling within the jurisdiction of the three village.

Sohkha Shnong Willage Elaka Nolgialang, R, No.007

Headman Sohkha Mission Village

Sohkha Mission Village Elaka, Nongtalang R. N. : 012

Headman Sohkha Phlang Village Elaka Nongtalang, R.No.015

#### ANNEXURE - I

Certified that the Amkahoh Micro-Watershed (JH-IWMP-V) comprising within its fold the three villages of Sohkha Shnong, Sohkha Mission and Sohkha Phlang falls under Amlarem C & R D Block and possesses lands more than 2000 Hectares which may be taken up for treatment with various developmental Scheme under the Integrated Watershed Management Programme (IWMP) by the Soil & Water Conservation Department, Jaintia Hills Division (T).

man Sohkha Shnong Village Elaka Nongtalang, R.No.007

Headman Sohkha Mission Village Elaka, Nongtalang R. N. : 012

Headman

Sohkha Phlang Village Elaka Nongtalang, R.No.015

#### <u>ANNEXURE – II</u>

This is to certify that Amkahoh Micro-Watershed (JH-IWMP- V) has been selected based on the following criteria:-

- (a) That the watershed has a population of Schedules Tribes only.
- (b) That it has a preponderance of Wastelands and Degraded Lands.
- (c) That it had a preponderance of Common Lands.
- (d) That it has acute shortage of drinking water.
- (e) That the people of the Watershed had assured of their full participation during the implementation of the programme as well as for the operation and maintenance of the assets created after the handing over of the land.
- (f) That the common profit will be shared amongst all with in the villages including the weaker section, women and the landless

Sohkha Shnong Village Elaka Nongtalang, R.No.007

Headman Sohkha Mission Village

Elaka, Nongtalang R. N. : 012

Headinan Sohkha Phlang Village Elaka Nongtalang, R.No.015

## RESOLUTIONS ADOPTED BY THE GENERAL MEETING OF DURBAR PYLLUN OF SOHKHA SHNONG, SOHKHA MISSION & SOHKHA PHLANG VILLAGES

A General Meeting of the villages comprising the Village Durbars of Sohkha Shnong, Sohkha Mission & Sohkha Shnong which was held on the 24<sup>th</sup> Nov. 2010 has unanimously adopted the following resolutions.

- 1. To form the Amkahoh Watershed Committee for implementing the Scheme Integrated Watershed Management Programme (IWMP)
- That the Secretary of the Watershed Committee will be an officer from the Office of the Soil & Water Conservation Department, Jaintia Hills Division (T) Jowai and the Chairman of the Watershed Committee will be a person to be nominate by the Joint Committee of the three Villages.
- 3. The three villages will extend all possible help to the Soil & Water Conservation Department while implementing the Integrated Watershed Management Programme (IWMP) in the Amkahoh Watershed area.
- 4. That the Watershed area is comprising lands of more than 2000.00 Hectares to be treated under various Soil & Water Conservation Works.
- 5. That the Joint Committee of the Durbar Pyllun of the three villages will take over and maintain all assets created by at the close of the Project.
- 6. That the common profit will be shared amongst all with in the villages including the weakers section, women and the landless.

Sohkha Shnong Village Elaka Nongtalang, R.No.007

Headman

Sohkha Mission Village Elaka, Nongtalang R. N. : 012

Headinan Sohkha Phlang Village Elaka Nongtalang, R.No.015