

SOIL & WATER CONSERVATION DEPARTMENT RI-BHOI DISTRICT

DETAIL PROJECT REPORT OF LOWER UMLATHU

INTEGRATED WATERSHED MANAGEMENT PROJECT - VI (2010-2011) UNDER UMLING C&RD BLOCK

RI-BHOI DISTRICT

M E G H A L A Y A

SUMMARY

Name of the Sate	:	Meghalaya
Name of the District	:	Ri Bhoi District
Name of the C&RD Block	:	Umling
Name of the Villages	:	(i) Umtyrnga (ii) Jorsyiem
		(iii) Chibra (iv) Nakrabil
Name of the Project	:	Ri Bhoi – IWMP – VI
Total Geographical Area	:	1073 Ha
Total Treatment Area	:	1000 Ha
Total Project Cost	:	150 lakhs
Project Duration	:	5 Years
Project Implementing Agency	:	Soil & Water Conservation Ri Bhoi Division, Nongpoh.

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CHAPTER I

INTRODUCTION AND BACKGROUND

1.1 Project Background:

The Lower Umlathu (IWMP-VI) project is located in Umling C&RD Block, Ri Bhoi District of Meghalaya. Consisting of a single micro-watershed, the project area is drained by the Umlathu Sream and its tributaries flowing in a south to north direction. The total area is 1073 Ha. with 1000 to be treated under the Integrated Watershed Management Programme (IWMP).

The Project area is located at a distance of about 45 km from Nongpoh the District Head Quarter and about 125 km from Shillong the State Capital. A total of four villages are covered under the project. These are –

1 Umtyrnga 2 Jorsyiem 3 Chibra 4 Nakrabil

1.2 Micro-watershed Information:

The Sub-watershed code is 3B2A1b as codified by the North East Space Application Centre (NESAC). The total area of the micro-watershed is 1073 Ha., with 1000 hectares to be treated under the Integrated Watershed Management Programme (IWMP).

1.3 Need and Scope for Watershed Development:

The Sub-watershed 3B2A1b falls under the Medium Priority category as per the prioritization of watersheds by the North East Space Application Centre (NESAC). Located on the Northern aspect sloping towards Assam the 4 villages do have kutcha road connectivity. The farmers are all marginal and 146 households are below the poverty line, which is 62.9% of the total households. Jhum cultivation is still practiced by most of the inhabitants of these villages on the slopes.

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

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

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

i. MGNREGS

ii. Border Area Development Programme (BADP)

iii. Total Sanitation Campaign (TSC)

iv. Swarnjayanti Gram Swarozgar Yojana (SGSY)

v. Indira Awas Yojana (IAY)

CHAPTER II BASIC INFORMATION OF THE PROJECT AREA

2.1 Location:

The Project area is located within the area of Raid Marwet Syiemship under Umling C&RD Block of Ri Bhoi District. It is situated at a distance of about 45 km from Nongpoh the district Head Quarter and about 125 km from Shillong which is also the State Capital. The geographical location is between 91^{0} 46' to 91^{0} 49'30"E Longitude and 26^{0} 02' to 26^{0} 04' 30"N Latitude. There are 4 villages within the Watershed which are as follows –

- 1. Umtyrnga
- 2. Jorsyiem
- 3. Chibra
- 4. Nakrabil

At present, only Umtyrnga village is connected by motorable road others only with four wheeled drive.

2.2 Physiography:

The physiography of the micro-watershed is moderateky undulating. The altitude ranges from a minimum of 80m to a high of 500m above mean sea level. In the lower reaches (valley lands) the slope ranges from 0% to 20%, however, in the middle and upper reaches it is greater than 45 %, and can reach up to 70%.

Table 2.1: Physiographic details

Elevation (metres)Slope Range (%)		Order of watershed Sub/Micro-watershed	Major streams	Topography
80 m to 500 m	0% to 70 %	Micro Watershed	Umlathu	Moderately Sloping

- **2.3 Drainage:** The major stream draining the micro-watershed is the Umlathu which is a 4th order stream flowing in a south- north direction. The slopes of the micro-watershed are dissected by numerous small tributaries flowing to the Umlathu.
- 2.4 Soil: Soil Texture is gravelly on the sloping lands and clayey to sandy clay on the low lying areas. Soil depth varies from shallow to deep. Soils are permeable and generally acidic in nature. Owing to moderately undulating land form and absence of good vegetation cover, the area is exposed to erosion hazards. The soil nutrient status in the area shows a general trend of low phosphorous content.

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

1	2	3	4	5	6	7	8	9
Sl. No.	Names of State	Names of District	Names of Projects	Cause	Types of erosion	Area affected (ha)	Run-off (mm/ year)	Average soil loss (Tonnes/ ha/ year)
				Water e	erosion:			
			Ri Bhoi RB- IWMP- VI	a	Sheet	773	2500-4000	40.90
		51		b	Rill	200	2500-4000	30.00
1	Meghalaya	ya Bhoi		с	Gully	100	2500-4000	30.00
				Sub	total			
				Wind e	rosion	Nil	Nil	Nil

2.5 Climate: The area in the foothills or low lying areas and mid-slopes are hot in summer and remain warm throughout the winter. The area on the higher reaches is hot during summer and warm during winter. The average annual rainfall is 1500 mm.

1	2	3	4	5	6	7		8	9									
S1.	Name of	Name of the Agro-		Area (in	Area (in	Area (in	Names of	Names of	Major soil type	Major soil types		Major crops						
No.	State	climatic zone	ha)	the districts	the Projects	a) Type			a) Name	b) Area (ha)								
									Betel nut	120								
									Betel leaf	30								
			Warm Humid Hyperther mic)							Oranges	50							
																		Bay leaf
1	Meghalaya			Ri bhoi	RB- IWMP –VI	i. Loamyii. Clayey Loam	1073 Ha	1205 mm Patharkhmah	Broom stick	560								
												Black pepper	20					
														Litchi	20			
										Banana	15							
									Pineapple	51								
								Total		886 Ha								

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

2.6 Agriculture: Agriculture is the primary occupation of the people of the area. The principal agricultural crops grown are Hill Paddy, Banana, and vegetables. Fruit crops are well suited in the lower reaches which include, orange, pineapple, jackfruit, litchi. The slopes of the Lower Umlathu are also very suitable for betel nut, betel leaf, black pepper, broomstick, which contribute to the income of the people.

Crops	Area (ha)	Average Yield (Qtl) per ha.	Total Production (Qtl.)
Betel nut	20	5.56	111.20
Betel leaf	30	10	300
Oranges	50	72.61	3630.50
Bay leaf	10	23.5	235
Broom stick	560	60	33600
Black pepper	20	6.05	121
Banana	15	163.56	2453.40
Pineapple	30	115	3450

Table 2.4: Crop yield and production

- 2.7 Natural Vegetation: The tree species common to the watershed area includes *Quercus* spp. *Castanopsis* spp. *Toona ciliata, Albizia* spp. *Aporosa* spp. *Bahunia variegata Duabanga* spp. and *Ficus* spp. However, due to Stone Quarrying the forest cover of the area has reduced considerably.
- **2.8 Socio-Economic Profile:** Economically, the project area is still backward compare to other part of the district. The main reason is due to the absence of road communication, primitive way of agricultural practices ,excessive stonequarrying and the terrain of the area.

Demographic Status: The total households in the watershed project is 348 with a total population of 2088, of which 1127 are male and 961 are female. The detail of the household in each of the villages in the watershed project is as follows:

1.	Umtyrnga	-	211 Nos
2.	Chibra	-	51 Nos
3.	Nakrabil	-	60 Nos
4.	Jolsyiem	-	26 Nos
	-		348 Nos

Infrastructure facilities :

- 2.1.1 *Roads:* All the villages within the Project Area are not connected by road. The Project area depends entirely on the kutcha road connected to Umtyrnga
- 2.1.2 *School:* There are only 5 L.P Schools within the Project Area run either by the Mission or by the Government.
- 2.1.3 *Electricity* : Connections have been provided but some villages are yet to have electricity.
- 2.1.4 *Health* : No Community Health Centre is available in the Project Area, the local community has to depends on facilities available at Beltola or Guwahati.
- 2.1.5 *Water Supply* : Drinking water supply have been provided by the PHE Deptt.. However, during lean season the entire population have to depend on springs,ringwells available in the area as the supply is not sufficient to meet the daily requirement.
- 2.1.6 *Market* : There is a weekly market held once in a week at Beltola. However, the main market where the people sell their produce is at Beltola and also at Shillong.

Table 2.5: Infrastructure Status.

1	2		3		4	4			
Name of District	Name of Project		Parameters:	Status					
		(i)	No. of villages connected to the main road by an all-weather 1 No road.						
		(ii)	No. of village provided with electricity	2 nos. electri	fied and 2	without ele	ectricity		
		(iii)	No. of households without access to drinking water	86 nos.					
		(iv)	No. of educational institutions:	(P)	(S)	(HS)	(VI)		
			Primary (P)/ Secondary (S)/ Higher Secondary (HS)/ Vocational institution (VI)	5 Nos.	-	-	-		
		(v)) No. of village with access to Primary Health Centre		Nil				
Ri Bhoi	RB-IWMP-	(vi)	No. of village with access Veterinary Dispensary	Nil					
District	VI	(vii)	No. of village with access Post Office	Nil					
2154100		(viii)	No. of village with access Banks	Nil					
		(ix)	No. of village with access Markets/ mandis	Nil					
		(x)	(x) No. of village with access Agro-Industries		Nil				
		(xi)	Total quantity of surplus milk	Nil					
		(xii)	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 Aganwadi Centres	1 No.					
		(xiv)	Any other facilities with no. of villages (please specify)	Nil					

2.9 Livestock: There are only 4 kinds of livestock farming being farmed in the area viz. Piggery, Poultry, Goatery and Dairy.

Table 2.6: Existing livestock population

Type of Animal	Population
Piggery Farming	150 Nos
Poultry Farming	886 Nos
Dairy Farming	117 Nos
Goatery Farming	48 Nos

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

Table 2.7: Land Holding:

1	2	3	4	5	6				
Name of Name of the		Types of Farmer	No. of			Land holding (ha)			
District	Project	71	households	households	Irrigated	Rainfed	Total		
		(i) Large	-	-					
		(ii) Small	-	-					
Ri Bhoi	RB– IWMP-VI	(iii) Marginal	321	123	-	886 Ha	886 Ha		
	1 W WP- V I	(iv) Landless	27	23	-	-	-		
		Sub - Total	348	146		886 Ha	886 Ha		

1	2	3		2				5		
Name of	Name of the	CPR		Total A Area owned/ In	on of	Area available for treatment (ha)				
District	Projects	Particulars	Pvt. Person	Govt. (specify deptt.)	PRI	Any other (Community)	Pvt. Person	Govt. (specify deptt.)	PRI	Any other (Community)
Ri Bhoi	RB – IWMP-VI	(i) Wasteland/ degraded land	-	-		556.0 Ha	-	-	-	556 Ha
		(ii) Pastures	-	-	-	-	-	-	-	-
		(iii) Private Agriculture land	3 Ha	-	-	-	3 Ha			
		(iv) Village woodlot	-	-	-	-				
		(v) Forest	-	-	-	470.0 Ha				444 Ha
		(vi) Village Ponds/ Tanks	-	-	-	-				
		(vii) Community Buildings	-	2 nos.	-					
		(viii) Weekly Markets	-	-	-	Beltola				
		(ix) Permanent Markets	-	-	-	Beltola				
		(x) Temples/ Places of worship	-	-	-	Church- 1 no				
		(xi) Others (Pl. specify)		-	-	47 Ha				
		Total	3 Ha	-	-	1073 Ha	3 Ha	-	-	1000 Ha

Table 2.5: Common Property Resources in the Project Area

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

a)	Built-up Area		=	44 Ha
b)	Agriculture		=	3 Ha
c)	Tree clad Area-close		=	470 Ha
d)	Tree clad Area-open		=	195 Ha
e)	Wasteland/Dense Scrub		=	131 Ha
f)	Wasteland/Open Scrub		=	<u>230 Ha</u>
		Total	=	1073 Ha

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

CHAPTER III

PROJECT PLANNING & INSTITUTION BUILDING

3.1 Scientific Planning

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

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

1	2	2
Sl.No.	Scientific criteria/ inputs used	No. of projects in which scientific criteria were used
А.	Planning	
	Cluster approach	3
	Whether technical back-stopping for the project has been arranged? If yes, mention the	Yes,
	name of the Institute.	NESAC, Nongsder
	Baseline survey	Yes
	Hydro-geological survey	No
	Contour mapping	Yes
	Participatory Net Planning (PNP)	Yes

1	2	2
	Remote sensing data-especially soil/ crop/ run-off cover	Yes
	Ridge to Valley treatment	Yes
	Online IT connectivity between	
	(1) Project and DRDA cell/ZP	Yes
	(2) DRDA and SLNA	Yes
	(3) SLNA and DoLR	Yes
	Availability of GIS layers	
	1. Cadastral map	No
	2. Village boundaries	No
	3. Drainage	Yes
	4. Soil (Soil nutrient status)	Yes
	5. Land use	Yes
	6. Ground water status	No
	7. Watershed boundaries	Yes
	8. Activity	Yes
	Crop simulation models [#]	No
	Integrated coupled analyzer/ near infrared visible spectroscopy/ medium spectroscopy	No
	for high speed soil nutrient analysis	
	Normalized difference vegetation index (NDVI)#	Yes
	Weather Stations	No
В.	Inputs	
	1. Bio-pesticides	No
	2. Organic manures	Yes
	3. Vermi-compost	Yes
	4. Bio-fertilizer	Yes
	5. Water saving devices	No
	6. Mechanized tools/ implements	Yes
	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 Division, Nongpoh, Ri Bhoi Hills District of Meghalaya. The Project Manager will be the Divisional Soil and Water Conservation Officer and will be assisted by an Asst. Soil & Water Conservation Officer along with WDT members in which expertise is drawn from the relevant fields for achieving smooth and successful implementation of the project.

1	2			3
Names of Districts	Names of projects			Details of PIA
		(i)	Type of organization#	Government
		(ii)	Name of organization	Soil & Water Conservation Division, Nongpoh
	East Khasi Hills –	(iii)	Designation & Address	Divisional Soil & Water Conservation
East Khasi Hills	IWMP III			Officer,Nongpoh
		(iv)	Telephone	03638 - 232257
		(v)	Fax	Do
		(vi)	E-mail	dswco_ribhoi@yahoo.com

3.3 Institution Building

i) Watershed Committee (WC)

The Watershed Committee of the Lower Umlathu, IWMP VI was constituted with the active involvement of the villagers with strong support of the Traditional Institutions (Village Durbar/Council). The Lower Umlathu Watershed Committee has been registered under the Society Registration Act 1983.

Table 3.2: Details of Watershed Committees (WC):

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Names of the Districts	Names of projects	Names of WCs	Date of Registration as a Society (dd/mm/ yyyy)	Designa tion	M/F	SC	ST	SF	MF	LF	Land-less	UG	SHG	GP	Any other	Educa- tional ualify- cation	Function/s assigned#
				Chairman	М	-	ST							1		Cl – X	A to I
D' DI			April/2011 M	Secretary	М	-	ST								1	BA	A to I
Ri Bhoi	RB- IWMP	Lower		Member	8 M	-	ST				1	1	2	4		Cl – VI	Do
District	-VI	Umlathu		Member	3 F	-	ST					2	1			to IX	Do
				Member													

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

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

ii) Self Help Group

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

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

1	2		3				4				5		6		
Names	Nomaa of		l no. of reg	istered S	SHGs	No. o	of mer	nbers				/ST in egory	No. of BPL in each category		
of the Districts	Names of projects	With only Men	With only Women	With both	Total	Categories	М	F	Total	М	F	Total	М	F	Total
	RB-		-			(i) Landless									
Ri		-		5 nos	5 nos	(ii) SF									
Bhoi	IWMP VI					(iii) MF	38	22	60	38	22	60	NA	NA	NA
	V I					(iv) LF									

iii) User Group

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

Table 3.4: User Group Details

1	2			3			4				5		6			
Names of	Nomes of		Total 1	no. of Ug	ζS	No. o	f me	mbe	rs			C/ST in egory	No		PL in each egory	
Names of Districts	Names of Projects	Me n	Wo me n	Both	Tota 1	Categories	М	F	Total	М	F	Total	М	F	Total	
Ri Bhoi	RB- IWMP- VI					(i)Landle ss (ii) SF (iii) MF (iv) LF										
Total		Nil	Nil	Nil	Nil				Nil			Nil			Nil	

CHAPTER IV PROJECT ACTIVITIES

4.1 Preparatory Phase:

i) Entry Point Activities (EPA)

(Financial – Rs. in lakh)

1	2	3	4	5	6	7	8	9	10	11
Sl. No.	State	District	Names of Project	Amount earmarked for EPA	Entry Point Activities planned	Estimated cost	Expenditure incurred	Balance	Expected outcome	Actual outcome
1	Megh alaya	Ri Bhoi	RB – IWMP- VI	6.0 Lakhs	Construction of 1 No Betelnut Fermentation Tank Construction of 3 Nos Community Water Harvesting Structures	4.00 2.00	6.0	_	N.A	N.A

ii) Other activities of Preparatory Phase:

1	2	3	4	5	6	7	8	9	10	11	12	13
District	Name of Projects	Initiation of village level institution	Capacity building	IEC activi ties	Baseline survey	Hydro - geolog ical survey	Identifyin g technical support agencies	Resour ce agree- ments	Preparat ion of DPR	Evaluatio n of DPR	Any other (please specify)	Cost incurred (Rs. In lakh)
Ri Bhoi	RB – IWMP- VI	1 no. W/C 4 nos. Sub Watershed Committee at each benefiting village	2 nos.	2 nos.	Participatory Rural Appraisals	N.A	Done	Done	Done	Done	Entry Point Activity	6.0

4.2 Watershed Works Phase:

1	2	3	4	5		6								7					
						Pre Proj	ect						Propo	sed Project	t	-			
S	Nam	Name						Augm		/ repair of actures	existing	Cor	nstruction	of new stru	ictures		Tota	l target	
3 1. N 0	e of State s	of Distri cts	Name of Projects	Type of structures	No	Area irriga ted (ha)	Stora ge capac ity	No	Area to be treate d (ha)	Storag e capaci ty	Estimat ed cost (in lakhs)	No	Area to be treated (ha)	Storage capacit y (per unit)	Estimate d cost (in lakhs)	No	Area to be treated (ha)	Storag e capaci ty (m ³)	Estima ted cost
1				(i) Tank	-	-	-	-	-	-	-	10 nos.	-	7 m ³	5.0	10 nos.	-	70 m ³	5.0
			-	(ii) Pond	-	-	-	-	-	-	-	19 nos.	172.50 На	300 m ³	25.8775	5 nos.	172.50 На	5700	25.877 5
				(iii) Lake	-	-	-	-	-	-	-	-	-	-	-	-		-	-
			RB –	(iv) Check Dam	-	-	-	-	-	-	-	3 Nos	-	25 m ³	4.14	3 nos.	-	75 m ³	4.14
	Meg hala ya	Ri Bhoi	IWMP - VI	(v) Percolatio n Tank	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Ju			(vi) Channel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				(vii) Any others (please specify)															
			Total																

						8					9	10
				Ach	nievement	due to pro	ject					
Augm		repair of actures	existing	Co	nstruction	of new stru	ictures	To	tal achievem	ient	Change in storage capacity (col 8-6)	Change in irrigated area (ha) Col. (8- 6)
No	Area irrigate d (ha)	Storage capacity	Expenditu re incurred (in lakhs)	No	Area irrigated (ha)	Storage capacity	Expenditur e incurred (in lakhs)	Area irrigated (ha)	Storage capacity	Estimated incurred		-
-	-	-	-	10 nos.	-	7 m^3	5.0	-	70 m ³	5.00	70 m^3	-
-	-	-	-	19 nos.	172.50 Ha	300 m^3	25.8775	172.50 На	5700 m ³	7.50	25.8775 m ³	172.50 На
-	-	-	-	-	-	-25 m^3	-	-	-	-	-	-
-	-	-	-	3 Nos	-	4.14	-	75 m^3	4.14	75 m^{3}	-	

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

1	2	3	4	5		6					7								8				9
					Pre	-project				Propo	osed targ	et					Achi	eveme	nt due to p	project			
S	States	OI	Names of	Type of structures	No.	Area irrigated	exist	entation/ 1 ing recha structure	urging			n of new ructures	Total	target		entation/ re sting rechar structures			struction o arging stru		Total ach	ievement	Change in irrigated area (Col. 8-
No.		Districts	projects			(ha)	No.	Area to be irrigated (ha)	Estimat ed cost	No.	Area to be irrigate d (ha)	Estimate	Area to be irrigated (ha)	Estimate d cost	No.	Area irrigated (ha)	Expen di-ture incurre d	No	Area irri- gated (ha)	Expen di-ture incurre d	gated	Expendi -ture incurred	(iiu)
				(i)Open wells	-		-		-														
	Maghala			(ii)Bore wells																			
	Meghala ya Ri	Ri Bhoi	VI	(iii)Any others (Pl. specify)		Nil		Nil			Nil		Nil			Nil			Nil		Nil		
				Total for the project																			

4.2.3 Activities executed by User Groups in the Project Areas.

	2				3			
		Ma	jor activities o	f the UGs –	Fargets			
Names of	Names of		Structure/ act	tivity propos	ed	No. of UGs	Estimate	Amount of WDF
Districts	Projects	Sl. No.	Туре	No.#	Treatment (ha)	involved	d Cost	to be collected (Rs.)
Ri Bhoi	RB – IWMP- VI	1. 2.	Betel Soaking Stone Cutting	10 unit 2 unit	-	2 nos. 2 nos.	5.0 7.0	0.25 0.35

4.2.4 Activities executed by User Groups in the Project Areas:

				4	-				
			Major a	activities of the	UGs - Achieve	ements			
	Structur	e/ activi	ity	No. of UGs	Expenditure	No. of	manday	ys	Amount of WDF
Sl. No.	Туре	No.#	Treated Area (ha.)		incurred (Rs.)	SC	ST	F	collected (Rs.)
1. 2.	Betel Soaking Stone Cutting	2 Nos 2 Nos	-	2 Nos 2 Nos	5.0 7.0	-	1600 2800	-	0.20 0.35

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

1	2		3	
		Maj	or activities of the SH	łGs
Names of the Districts	Names of projects	Name of activity	No. of SHGs involved	Average annual income from activity per SHG
		Betel nut soaking Tank	1 nos.	60,000
		Fruit Processing unit	1 nos.	1,20,000
Ri Bhoi	RB – IWMP- VI	Rural godown/ cold storage	1 nos.	1,10,000
		Apiculture @ Rs. 1000/ unit	1 nos.	85,000
		Piggery @ 20,000/ unit	2 nos.	60,000
		Poultry @ Rs. 20,000/ unit	2 nos	60,000
		Canes and Handicrafts	1 no	60,000

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

4		1	5		6	7		8		9	10
No. of	Total as	sistance re (Amoun	•	he SHG	Total annual	Total		of S ade	SHGs d as	Total Amount of	No. of
SHGs given training	Loan from revolving fund	Training	Material	Others (pl. specify)	Income generated (Rs.)	annual Savings (Rs.)	Ι	II	III	loan sanctioned by the bank(s)	SHGs

4.2.7 Other activities of watershed works phase:

	2		3	4	1	5	i		б	7		8	3	9		1	0	11		1	2	13
	Names of projects	f trea	ge area atment	Draina treati	-	Nurs rais (a)			and opment (b)	Cro demon tion (a)	nstra	Past develo		Veteri servio	•	Fish develo	•	Non- conventi energ (a)	onal	Any (ple spec	ease	Total cost incurred (Rs. In lakhs)
F B	i RB – no IWMP VI	85		915 Ha	137. 25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	109.50

4.2.8 Details of engineering structures in watershed works:

1	2	3		4			5		6			7					8	
			Тур	e of treatm	ent	Tyj	pe of lar	nd	Executing agency		,	Farge	t			Ac	hievement	
District	Project	Name of structures	(i) Ridge area (R)	(ii) Drainage line (D)	(iii) Land Dev. (L)	Trata	(ii) Com- munity	(pl.	(i) UG (ii)SHG (iii) Others (pl. specify)	No. of units (No./ cum./ rmt)		ed cos lakh) W C	1	Expected month & year of completion (mm/yyyy)	units (No./ cu.m./	urred in lak	h) Complete	
		Staggered trenching																
		Loose boulder Contour bund Graded bunding																
		Bench terracing																
	RB –	Earthern checks dams																
Ri Bhoi	IWM	uallis																
	P- VI	Gully plug																
		Gabion structures																
		Underground dykes																
		Field bunds																
		Any others (Water Harvesting Structures)					\checkmark		UG	14 units	14.76	22. 15	36.91	2014-15				

Contd.

4.2.9 Details of engineering structures in watershed works.

							9										
							Outcomes	5									
	Area	Water le	evel (m)		uction	Income	e (Rs.)		Ma	andays g	generated			No	o. of benef	iciaries	
Reduction in	troated#			(qu	intal)					0.1							
run off (cu.m)	(ha)	Pre- project	Post project	Pre- project	Post project	Pre- project	Post project	SC	ST	Others (Men)	Women	Total	SC	ST	Others	Women	Total

1	2	3		4			5		6			7				8	
			Туре	e of treat	ment	T	ype of	land	Executing agency		1	Farget				Achievemen	t
Distri ct	Project	Name of structure/ work	(i) Ridge area (R)	(ii) Draina ge line (D)		(i) Priv ate	Com	(iii) Other s (pl. speci fy)	(i) UG (ii)SHG (iii) Others (pl. specify)	Area (ha)	No. of plants	Estimat ed cost (Rs. in lakh)	Expecte d month & year of comple- tion (mm/ yyyy)	Area (ha)	No. of plant s	Expendi- ture incurred (Rs. in lakh)	Actual month & year of comple-tion (mm/ yyyy)
		Afforestation	\checkmark				\checkmark		UG	25 ha	12500 nos	18.0375	3 yrs				
		Regeneration															
		Agro-forestry															
Ri	RB –	Fuel wood															
Bho	IWMP-	Fodder															
i	VI	Agro- Horticulture				\checkmark				60 ha	18000 nos	31.08	3 yrs				
		Pasture dev.															
		Nursery raising															
		Others															

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	Produ (quir		Inco (Re			М	andays g	enerated]	No. of bene	eficiaries	
run off (cu.m)	Pre- project	Post	Pre- project	Post	SC	ST	Other	Women	Total	SC	ST	Others	Women	Total
	1 5	1 5	1 5	1 5		4329			4329		100 nos			100 nos
											nos			105
						7459			7459		260			260
						1.02			1.02		nos			nos

4.2.12 Details of allied / other activities:

1	2	3		4		5		6		7
				Type of	and	Executing agency		Target	Ach	ievement
District	Project	Name of activity	(i) Priv ate	(ii) Commu nity	(iii) Others (landless)	(i) UG (ii)SHG (iii) Others (pl. specify)	Estimate d cost (Rs. in lakh)	Expected month & year of completion (mm/yyyy)	Expendi- ture incurred (Rs. in lakh)	Actual month & year of completion (mm/yyyy)
		Tailoring @ 8000/-	-	-	8 units	SHG's	0.64	3 yrs.		
		Carpentry/ Agri- implements/ Basket making etc @ 5000/-			107 units	SHG's /Individual	5.35	3 yrs.		
		Hollow Block making/ Stabilized Mud block making @ 25,000/-			4 units	Do	1.00	3 yrs.		
		Apiculture @ Rs. 8000/ unit			10 units	Do	0.80	3 yrs.		
		Betel nut soaking Tank @ Rs. 50,000/-			10 units	UG's	5.00	3 yrs.		
Ri	IWMP-	Piggery @ 30,000/ unit			8 units	SHG's	2.50	3 yrs.		
Bhoi	VI	Vermi-Composting @ Rs.12,500/-			4 units	SHG's	0.50	3 yrs.		
		Kitchen Gardening @ Rs. 2500/-			300 units	Individual	7.51	3 yrs.		
		Fruit Processing unit @ Rs 50,000/ unit	-	-	5 unit	SHG's	2.50	3 yrs		
		Rural godown/ cold storage @ 2.0 Lakh			3 units	UG's	6.00	1 yrs.		
		Poultry @ Rs. 30,000/ unit			5 units	SHG's	1.50	1 yrs.		
		Canes & Handicrafts @ Rs. 30,000/ unit			4 units	SHG's	1.20	3 yrs.		
							34.50			

(Contd.)

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

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

4.2.13 Details of allied / other activities:

					8						
				Outo	comes						
Income (Rs.)			Ν	landays g	enerated			l	No. of bene	eficiaries	
Pre-project	Post project	S C	ST	Others	Women	Total	SC	ST	Others	Women	Total

4.3 Consolidation and withdrawal phase

Details of activities in the CPRs in the project areas:

1	2	3	4	5		6					7				
						Targ	get			A	chievemen	t			
Names of the Districts	Names of projects	the villages	CPR particula rs		Target area under the activity (ha)	Estimated expenditure (Rs.)	Expected no. of beneficia- ries	Estimated contri- bution to WDF (Rs.)	Area treated under the activity (ha)	Expenditu re incurred (Rs.)	Actual no. of benefici- aries		lo. of indays ST	c	WDF ollecte 1 (Rs.)
	RB –	Umtyrnga	D/Water		-	0.50								-	
Ri Bhoi	IW	Jorsyiem	D/Water		-	0.50		5% of							
	MP-	Nakrabil	D/Water		-	0.50		Estimated Amount							
	VI	Chibra	D/Water		-	0.50									

CHAPTER V-PROJECT PHASING AND BUDGETING

ACTION PLAN OF LOWER UMLATHU WATERSHED UNDER IWMP - VI, RI BHOI DIVISION : NONGPOH

Name of District: Ri Bhoi District Name of C&RD Block: Umling Block No. of villages – 4 nos. Project Area – 1000 Ha.

S1.		I st Year		II nd Year		III rd Year		IV th Year		V th Year		Total	
No	Activities	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Ι	MANAGEMENT COST:												
А.	Administrative cost:			2 %	3.0	5 %	7.5	3 %	4.5	-	-	10 %	15.0
i.	Honourarium of WDT Members @ Rs. 5000/ month – 1 no.	-	-	-	-	12 months	0.60	12 months	0.60	-	-	2 yrs	1.20
ii.	Hon ^{rm} of Watershed Volunteers @ Rs. 2500/- month $- 2$ nos.	-	-	-	-	12 months	0.60	12 months	0.60	-	-	2 yrs	1.20
iii.	Hon ^{rm} WCO's @ Rs. 750/ month.	-	-	12 months	0.09	12 months	0.09	12 months	0.09	-	-	3yrs	0.27
iv.	Hon ^{rm} WCM @ Rs. 100/members/ month for 25 nos.	-	-	12 months	0.30	12 months	0.30	12 months	0.30	-	-	3 yrs	0.90
v	Hon ^{rm} Office assistant @ Rs. 3000/- month.	-	-	12 months	0.36	12 months	0.36	12 months	0.36	-	-	3 yrs	1.08
vi	Hon ^{rm} Chartered Accountant	-	-	-	0.15	-	0.15	-	0.15	-	-	3 yrs	0.45
vii	TA/DA of Field Asstt. @ 5000/ month	-	-	6 months	0.60	6 months	0.30	6 months	0.30	-	-	1.5 yrs	1.20
viii	Hiring charges of office building @ 1000	-	-	-	-	12 months	0.12	12 months	0.12	-	-	2 yrs	0.24
ix.	Hiring charges of vehicle @ 5000/ month	-	-	12 months	0.60	12 months	0.60	-	-	-	-	2 yrs	1.20
X	Office expenses, POL, Stationeries, printing of SHG's books, pamphlets, tea, snacks etc, cost of camera.	-	-	-	0.90	-	4.38	-	1.98	-	-	-	7.26
	Total of A:	-	-	2 %	3.0	5 %	7.5	3 %	4.5	-	-	10 %	15.0
	PREPARATORY PHASE :												
В.	Entry Point Activities:	4 %	6.00	-	-	-	-	-	-	-	-	4 %	6.00
i.	Construction of Betelnut Fermentation Tank	1 unit	4.0	-	-	-	-	-	-	-	-	1 unit	4.0
ii.	Construction of Communty Wash & Bath Place	3 units	2.0	-	-	-	-	-	-	-	-	3 units	2.0
	Total of B:	4 %	6.00	-	-	-	-	-	-	-	-	4 %	6.00

1	2	3	4	5	6	7	8	9	10	11	12	13	14
C.	Training:	1 %	1.50	2 %	3.0	1 %	1.5	1%	1.5	-	-	5 %	7.50
i.	Awareness Campaign & Capacity building	1 no	0.50	-	-	-	-	1 no.	0.30	-	-	2 no	0.80
ii.	Exposure visits – off. Campus	1 no	0.30	-	-	-	-	1 no.	0.30	-	-	2 no	0.60
iii.	Capacity building of SHG's/ UG's.	3 nos.	0.20	4 nos.	2.00	4 nos.	2.00	1 no.	0.30	-	-	12 nos.	3.50
iv.	Capacity building of WC Members.	2 nos.	0.25	1no.	0.5	2nos.	0.50	1 no.	0.30	-	-	6 nos.	1.30
v.	Capacity of WDT/WV	2 nos.	0.25	1 no.	0.5	2nos.	0.50	1 no.	0.30	-	-	6 nos.	1.30
	Total of C:	1 %	1.50	2 %	3.0	1 %	1.5	1%	1.5	-	-	5 %	7.50
D.	Detailed Project Report:	1 %	1.50	-	-	-	-	-	-	-	-	1 %	1.50
i.	Cost of Resources Inventories works	-	0.25	-	-	-	-	-	-	-	-	-	0.25
ii.	Cost of PRA Exercises	-	0.50	-	-	-	-	-	-	-	-	-	0.50
iii.	Cost of Land use Survey works	-	0.25	-	-	-	-	-	-	-	-	-	0.25
iv.	Cost of formulating	-	0.50	-	-	-	-	-	-	-	-	-	0.50
	Total of D:	1 %	1.50	-	-	-	-	-	-	-	-	1 %	1.50
E.	Monitoring & Evaluation:	-	-	0.5%	0.75	1%	1.5	0.5%	0.75	-	-	2 %	3.00
i.	Monitoring	-	-	0.2%	0.30	0.5%	0.75	0.3%	0.45	-	-	-	-
ii.	Evaluation	-	-	0.3%	0.45	0.5%	0.75	0.2%	0.30	-	-	-	-
	Total of E:	-	-	0.5%	0.75	1%	1.5	0.5%	0.75	-	-	2 %	3.00
	Total of I (A to E)	6%	9.00	4.5%	6.75	7 %	10.50	4.5 %	6.75	-	-	22 %	33.00
п	PROJECT COST/WATERSHED WORKS PHASE :	-	-	-	-	-	-	-	-	-	-	-	-
А.	Arable Land Treatment:	-	-	-	-	-	-	-	-	-	-	-	-
i.	Horticulture Devt. for 480 ha @ Rs.8600/Ha	-	-	480 ha(c)	6.24	480 (1m) 262(2m)	22.08 7.074	218 (2m)	5.885	-	-	480 ha	41.279
	Total of A :	-	-	-	6.24	-	29.154	-	5.885	-	-	480 Ha	41.279
B.	Non- Arable Land Treatment:												
i.	Afforestation Devt. Works for 185 ha @ Rs. 10,100/ ha.	-	-	185 ha	3.145	185 ha	10.175	185 ha	5.365	-	-	185 ha	18.685
-	Total of B:	_	_		3.145	_	10.175	_	5.365		1	185 ha	18.685

1	2	3	4	5	6	7	8	9	10	11	12	13	14
С	Drainage Line Treatment:												
i.	Water Harvesting Structures as per Estimates(Convergence)	-	-	2 Nos	1.865	12 Nos.	13.171	-	-	-	-	14 Nos.	15.036
	Total of C :	-	-	-	1.865	-	13.171	-	-	-	-	335 ha	15.035
	Total of A + B + C	-	-	7.5 %	11.25	35 %	52.50	7.5%	11.25	-	-	50% (1000 Ha)	75.00
D	Livelihood Activities for landless persons:												
i.	Tailoring @ Rs.8,000/-	-	-	5 units	0.40	3 units	0.24	-	-	-	-	8 units	0.64
ii.	Carpentry/ Agri- Implements/ Basket Making etc @ Rs. 5000/-	-	-	22 units	1.10	48 units	2.40	37 units	1.85	-	-	107 units	5.35
iii.	Hollow Block making/ Stabilized Mud block making Rs. 25,000/-	-	-			4 units	1.00	-	-	-	-	4 units	1.00
iv.	Vermi-Composting @ Rs.12,500/-	-	-			4 units	0.50	-	-	-	-	4 units	0.50
v.	Kitchen Gardening @ Rs. 2500/-	-	-			14 units	0.36	286 units	7.15	-	-	300 units	7.51
	Total of D:	-	-	1 %	1.5	3 %	4.50	6%	9.0	-	-	10.0 %	15.00
E.	Production System and Micro Enterprises (SHG's):												
i.	Betel nut soaking Tank @ Rs. 50,000/-	-	-	1 unit	0.50	9 units	4.50	-	-	-	-	10 units	5.00
ii	Fruit/Food Processing unit @ Rs. 50,000/ unit	-	-			-	-	5 unit	2.50	-	-	5 unit	2.50
iii	Rural godown/ cold storage @ 2.0 Lakh	-	-			-	-	3 unit	6.00	-	-	3 unit	6.00
iv	Apiculture @ Rs. 8000/ unit	-	-			-	-	10 units	0.80	-	-	10 units	0.80
v	Piggery @ 30,000/ unit	-	-	5 units	1.0	5 units	1.5	-	-	-	-	10 units	2.50
Vi	Poultry @ Rs. 30,000/ unit	-	-			5 units	1.5	-	-	-	-	5 units	1.50
vii	Canes & Handicrafts @ Rs. 30,000/ unit	-	-			-	-	4 units	1.20	-	-	4 units	1.20
	Total of E :			1 %	1.5	5 %	7.5	7 %	10.50	-	-	13 %	19.50
	2	3	4	5	6	7	8	9	10	11	12	13	14
------	---	-----	------	-------	-------	------	-------	--------	-------	----	------	-------	--------
F.	Consolidation & Exit Phase:												
i.	Repairs, Maintenance of CPR's.	-	-	-	-	-	-	-	-	Ι	3.00	-	3.00
ii.	Improving the sustainability of various Interventions	-	-	-	-	-	-	-	-	-	2.00	-	2.00
iii.	Documentation of successful experiences & Preparation of Completion Report	-	-	-	-	-	-	-	-	-	2.50	-	2.50
	Total of F:	-	-	-	-	-	-	-	-	5%	7.50	-	7.50
	Total of II (A+B+C+D+E+F)	-	-	9.5 %	14.25	43 %	57.00	20.5 %	31.50	5%	7.5	78 %	117.00
	Grand Total (I + II)	6 %	9.00	14 %	21.00	50 %	75.00	25 %	37.50	5%	7.50	100 %	150.00

2	3	4	5	6	7	8	9	10	11	12	13	14
Consolidation & Exit Phase:							_					2.00
Repairs, Maintenance of CPR's.	-	-	-	-		-	-	-		3,00		3.00
Improving the sustainability of various	-	-		-			•	-	-	2.00	-	2.00
Documentation of successful experiences & Preparation of Completion Report	-	-	•	-	•			-		2.50		2.50
Total of F:	-	-		-	-	-	-	-	5%	7.50	-	7.50
Total of II (A+B+C+D+E+F)	-	-	9.5 %	14.25	43 %	57.00	20.5 %	31.50	5%	7.5	78 %	117.00
Grand Total (I + II)	6 %	9.00	14 %	21.00	50 %	75,00	25 %	37.50	5%	7.50	100 %	150.00

B.

Deputy Commissioner Ri - Bhol District Nongpoh

aprel Divisional Officer Coll & Water Conservation RJ Bhoi Division Nongpob

DETAILS OF CONVERGENCE OF I.W.M.P. PROJECT –VI UNDER THE OFFICE OF SOIL & WATER CONSERVATION OFFICER, RI-BHOI DIVISION, NONGPOH WITH MGNRGA

	Name of Project with	Year of implement	Name of Deptt. With	Fund r available due to con	to IWMP	Name of activity/task/structure undertake with converged fund a) Structure	Reference no. of activity/task/stru	Level at which decision for	Remarks
District	name of village and C&RD Block	ge and auton of ochemics Fin by Livelihood	b) Livelihood	ctures in DPR	converge was taken				
1	2	3	4	5	6	7	8	9	10
	IWMP Project – VI	2010-11 to 2014-15	C&RD Deptt. MGREGA	10 units	18.06	Development of water bodies	Nil	Village & Block	12.04 IWMP
	Umling C&RD Block 1. Umtyrnga	2010-11 to 2014-15	2010-11 to 2014-15	2 units	1.58	Water harvesting	Nil	Village & Block	1.05 IWMP
Ri-Bhoi	2. Cibra 3. Nagrabil	2010-11 to 2014-15	2010-11 to 2014-15	2 units	.51	Water harvesting	Nil	Village & Block	1.67 IWMP
	4. Tota	al		14 units	22.15				14.76 IWMP

Deputy Commissioner Ri - Bhol District, Nengpoh

Tarour

Divisional Soil & Water Conservation Officer Ri-Bhoi Division Nongpoh

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

1	2	3	4	5	6	,	7	8	9		1	0				11		
S I	Name of	Name of District	Names of	Year of sancti	Proj dura (dd/mm	tion	Area of the	Project cost (Rs. In	Names of Micro watersheds & Code nos. (as per DoLR's	1	Area (ha) of	f the projects				ea details within the		
	N	s	Projects	on	From	То	projects	lakh)	unique codification)						(8		, 110,000,00,00	
										Cultivat ed rainfed area	Cultivat ed irrigate d area	Uncultiv wastel		Pvt. Agri. Land	Forest land	Comm unity land	Others (pl. specif y)	Total area (ha)
												a) Temporar y fallow	b) Per manen t				•	
]	Meghalaya	Ri Bhoi	RB- IWMP- VI	2010- 11	2010 - 11	2014- 15	1000 Ha	150 Lakhs	Lower Umlathu 3C1B5g2a	3	Nil	665	361	3	592	361	44	1000 Ha

Fund provision for the IWMP projects from all sources:

1	2	3	3					4						5
	Nome					Funds	from other s	sources in	n addition to	IWMP f	unds	T		
Distri ct	Name of Project s	IWMP	' Fund		rgence nds	Р	PP	Corr	nmunity		ational		ers (Pl. ecify)	Total
		Central Share	State Share	Name of Scheme	Amount (Lakhs)	Name of private sector	Financial contri- bution	Name	Financial contri- bution	Name	Financi al contri- bution	Nam e	Financia l contri- bution	
Ri Bhoi	RB- IWMP- VI	135 lakhs	15 lakhs	NREGS	22.17	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	178.99

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

1	2	3	4		5					6		
				Distt.	Agency's Proj	ect Account of	details		Watershed Com	mittee (WC)	account detail	s:
Sl. No.	Names of States	Name of Districts	Names of Projects	Name of the Bank and Branch where project account has been opened	Account Number (to be obtained confiden- tially)	Account type (Savings/ Current/ Others)	Name & Designatio n of authorized persons who operate the account.	Name of Watershed Committee	Name of the Bank and Branch where project account has been opened	Account number (to be obtained confiden- tially	Account type (Savings/ current others)	Name & Designation of authorized persons who operate the account.
1	Megha laya	Ri Bhoi	RB- IWMP- VI	Indian Bank Nongpoh Branch	930331820	Saving	Smti.V.Pa pang, DS&WCO	Lower Umlathu, Watershed Committee	Indian Bank Nongpoh Branch	9288770 91	Saving	Chairman W.C, Secretary W.C, Project Leader / WDT

Details of Convergence of IWMP with other Schemes:

	1	2	3	4	5	6	7
Sl. No.	District	Names of projects	Names of Departments with Schemes converging with IWMP	Fund made available to IWMP due to convergence (Rs. in lakh)	Name of activity/task/structure undertaken with converged funds (a) Structures (b) livelihoods (c) Any other (pl. specify) [#]	Reference no. of activity/ task/ structure in DPR [@]	Level at which decision for convergence was taken ^{\$}
1	Ri Bhoi	RB-IWMP-	* Community Rural Development Department NREGS	22.17	Development of Water Bodies Water Harvesting Structures Water Distribution Works	-	Block Level & District
2		VI	* PHE Department TSC	n.a	Construction of Low cost sanitary unit	-	Level

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

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

CHAPTER VI CAPACITY BUILDING

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.

1	2	3	4	5	6	7	8		9		
S. No	State	Name of the Training Institute	Full Address with contact no., website & e-mail	Name & Designati on of the Head of Institute	Type of Institute [#]	Area(s) of specialization ^{\$}	Accre- ditation details	Refer- ence Year	Performan No. of trainees to be trained	No. of trainings	No. of trainees 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	Kyrdem Kulai	Director	State Govt.	Animal Husbandry	NA				
6		Fruit Garden	Shillong	Director	State Govt.	Agri-Horti, Fruit Processing	NA				

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

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

\$ Capacity Building/ Agriculture/ Horticulture/ Animal Husbandry/ Pisciculture/ Remote Sensing/ Water conservation/ Ground water/ Forestry/ livelihoods/ entrepreneurship development/ others (pl. specify) [@] The training institutes must fulfill the conditions mentioned in the operations guidelines.

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

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

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

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

	1	2	3	4	5
	Activity	Executing agency	Estimated expenditure (Rs.)	Expenditure incurred (Rs.)	Outcome (may quantity, wherever possible)
1.	Awareness	S&WC Ri Bhoi Division	0.50	0.50	
2.	Exposure Visits	S&WC Ri Bhoi Division	0.30	0.30	
3.	Capacity Building	S&WC Ri Bhoi Division	1.70	1.70	
4.	Photos/Pamphlets/Literature	S&WC Ri Bhoi Division	0.50	0.50	

CHAPTER VII EXPECTED OUTCOME

Table 7.1 Employment related outcomes:

						1	1							2		
Sl	Name of					Wage em	ploym	ent					Se	lf employı	ment	
No	Village		N	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.	Umtyrnga		100 %	7500	7000	14500		100 %	111	110	211		100 %	8	4	12
2.	Nakrabil		100 %	7800	6200	14000		100 %	34	26	60		100 %	6	2	8
3.	Chibra		100 %	7000	6500	13500		100 %	27	24	51		100 %	5	3	8
4.	Jorsyiem		100 %	3200	2800	6000		100 %	14	12	26		100 %	4	1	5
						36000					348					68

Table 7.2 Migration Details:

1	2	3	4	5	6	7	8	9	1	0
Names of e Districts	Names of Projects	Name of village	No. of persons migrating	No. of days per year of migration	Major reason(s) for migrating	Distance of destination of migration from the village (km)	Occupation during migration	Income from such occupation (Rs. in lakh)	identify majo	d migration or activities of esponsible (b) Livelihoods
				Ν	Ι	L				

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

Table 7.3 Economic benefits accrued to women:

	1	2	2		3	4
Wa	iges	Trai	ning	Liv	relihoods	
Woman days	Amount (Rs. in lakh)	No. of women participants	Amount (Rs. in lakh)	No. of women beneficiaries	Value of assistance provided (Rs. in lakh)	Total (Rs. in lakh)
22500	22.50	150	0.60	60 nos.	6.0	6.60

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

1	2	3	4	5	6			7		8
Names of the Districts	Names of the projects	Names of the Particular villages of CPR		Nature of right	Period of right	Be		y details (1 milies)	10. of	User Charges
Districts	projects	vinages	UI CFK	rigitt	rigit	SC	ST	Others	Total	(Rs.)
		Umtyrnga	Community Forest	Fw	6 months	-	211	-	211	Nil
Ri Bhoi	RB-IWMP-VI	Nakrabil	Community Forest	Fw	6 months	-	60	-	60	Nil
NI DII01		Chibra	Community Forest	Fw	6 months	-	51	-	51	Nil
		Jorsyiem	Community Forest	Fw	6 months	-	26	-	26	Nil

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

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

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

F	for right to	fishing [culture, harvest and sale]
Fw	for right to	collect firewood for domestic purposes
G	for right to	grazing for cattle and
MFP	for right to	collect and sell minor forest produces
Р	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
Т	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
0	for any right o	ther than indicated above (please specify)

Table 7.5 Water related outcomes:

1	2	3	4	5	6	7	8
Names of Districts	Names of Projects	Sources	Pre-Project level	Mid-term project level	Post-Project level	Increase/decrease (Col. 8 – Col. 6)	Remarks
		Open wells	-	-	-	-	-
Ri Bhoi	RB-IWMP-VI	Bore wells	-	-	-	-	-
		Others (specify) Springs	-	-	-	-	-

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

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

Table 7.5.2 Status of Drinking water:

1	2		3			4		5
District	Name of the		oility of drinki of months in a	0	Qualit	ty of drinking	g water	Commonto
District	project	Pre-project	Post- project	Change in availability	Pre- project	Post- project	Change in quality	Comments
Ri Bhoi	RB-IWMP-VI	Insufficient	Sufficient	10 – 12 months	Moderate	Improved	Improved	-

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

Table 7.5.3 Water Use efficiency:

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

* From column no. 2, total number of States implementing the programme, from column no. 3, total no. of Districts; from column no. 4, total no. of projects, from column no. 6, practice-wise totals may be mentioned at the end of the table for the entire country.
 ^{\$} Sprinkler, Drip, PVC pipe, etc.
 [#] Vermi-compost, organic manuring, Mulching, Check basin, Alternate furrow, Ridges & furrow & other scientific practices.

 Table 7.6: Vegetation/ crop related outcomes:

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

1	2	3				4						5						6		
					Pre	e-project					Μ	l <mark>id-ter</mark> m	l				Р	ost-pro	oject	
Names of the	Name of Proje	Name of crops	Are (ha			verage Yield (tl) per ha.	Р	Total roduction (Qtl)		rea 1a)	Y: pe	erage ield r ha Qtl)	Prod	otal uction (tl)	Ar (h		Yie per	rage eld ha tl)		roduction Qtl)
Districts	cts		Irri	Rf.	Ir ri	Rf.	I r r i	Rf.	Irr i	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.
		Betel nut	-	20	-	5.56	-	111.20	80	20	6.0	5.56	480	111.2 0	80	20	6.0	5.56	480	111.20
		Betel leaf	-	30	-	10	-	300	70	30	12	10	840	300	70	30	12	10	8840	300
	RB-	Oranges	-	50	-	72.61	-	3630.50	25	50	75	72.61	1875	3630. 50	50	50	75	72.6 1	3750	3630.50
Ri Bhoi	IWMP	Bay leaf	-	10	-	23.5	I	235	15	10	24	23.5	360	235	40	10	24	23.5	960	235
	-VI	Broom stick	-	560	-	60	-	33600	-	300	60	60	-	18000	-	300	60	60	-	18000
		Black pepper	-	20	-	6.05	-	121	40	20	7	6.05	280	121	80	20	7	6.05	560	121
		Banana	-	15	-	163.56	-	2453.40	35	15	165	163.5 6	5775	2453. 40	85	15	165	163. 56	14025	2453.40
		Pineapple	-	30	-	115	-	3450	70	30	120	115	8400	3450	120	30	120	115	14400	3450

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

Irri. - Irrigated Rf - Rainfed

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

1	2	3	4	5			6	5						7					8	3		
							Pre-p	roject					Mid	-term					Post-p	rojec	t	
Sl No.	Names of States	Names of the Districts	Name of Projects	Name of crops	Ar (h		Yi (Qtl)	rage eld) per a.	To Proc 0 (Q	lucti		rea 1a)	Aver Yie per (Q	ha	Produ	tal uction ptl)		rea a)	Aver Yie per (Qt	eld ha	To Produ (Q	iction
					Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.

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

Irri. - Irrigated Rf - Rainfed

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

1	2	3	4	5			6						7	1					8			
							Pre-pi	roject					Mid-	term				•	Post-p	rojec	t	
Sl No.	Names of States	Names of the Districts	Name of Projects	Name of crops	Ar (h		Yi	rage eld) per a.	To Prod 01 (Q	lucti n		rea a)	Aver Yie per (Q	eld ha	Tot Produ n (Qt	ıctio	Arc (ha		Aver Yie per (Qt	eld ha	Tot Produ (Q	iction
					Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.
			EKH- IWMP	Betel leaf	-	-	-	-	-	-	60 На	-	27	-	1620	-	120	-	29	-	3480	-
	Ri Bhoi	RB- IWMP-VI	III Total for the District																			

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

Irri. - Irrigated Rf - Rainfed

1	2	3	4 5					
			Existing	area under fod	der (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
Ri Bhoi	RB-IWMP-VI	5 yrs	NA	NA	NA	nil	nil	nil

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

Table 7.6.5 Increase/ Decrease in Forest/vegetation cover:

1	2	3		4		5				
			Existi	ing area tree co	over (ha)	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		
Ri Bhoi	RB-IWMP- VI	5 yrs	NESAC	2006	470 Ha	25 Ha	-	-		

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

Table 7.6.6 Increase/ Decrease in area under horticulture:

1	2	3		4			5	
			Existing ar	ea under hortic	ulture (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
Ri Bhoi	RB-IWMP-VI	5 yrs				60 Ha	60 Ha	60 Ha

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

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

1	2	3		4 5				
			Existing a	area under fo	odder (ha)	A	chievement (ha)	
District	Name of project	Duration of Project	Source/Name of report	Year of reference	Area already under fuel- wood	Area under fuel- wood proposed to be covered under IWMP	Area under fuel- wood actually covered under IWMP	Change in area under fuel-wood
Ri Bhoi	RB-IWMP-VI	5 yrs				25 Ha	25 Ha	25 Ha

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

Table 7.7 Livelihood related outcomes:

1	2	3		4			5			6		7
Names of the	Name of	Type of Animal	Pr	e-project	t		Mid-tern	n	P	ost-proje	ect	Domoniza
Districts	Projects	Type of Animal	No.	Yield	Income	No.	Yield	Income	No.	Yield	Income	Remarks
		Piggery Farming	150 Nos	-	12.0	200nos	nil	16.0	270nos	-	22.95	
Ri Bhoi	RB-	Poultry Farming	886 Nos	-	1.77	1200nos	-	2.40	1600nos	-	3.20	
KI DIIOI	IWMP-VI	Dairy Farming	117 Nos	-	23.40	118nos	-	29.50	120nos	-	30.00	
		Goatery Farming	48 Nos	-	1.92	50nos	-	2.25	50nos	-	2.50	
	Total for											
	all		1201 Nos	-	39.09	1568nos	-	50.15	2040nos	-	58.65	
	projects											
Total for all												
Districts												

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

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

Table 7.7.2 Details of other livelihoods created for landless people:

1	2	3	4			5		6			7			8				
Distric	Droj	Name of	Fund required	Sources of funding (Rs.)			Actual Expenditur	No	o. of be	neficiar	ies traiı	ned	No. of beneficiaries taking up activity					
t	Proj ect	activity	for the activity (Rs.)	Project Fund	Benefi -ciary	Others (pl. specify)	Total	e incurred on activity (Rs.)	SC	ST	Othe rs	Wome n	Tot al	SC	ST	Oth ers	Wome n	Total
		Tailoring	10000/-	8000/-	2000/-	-	10000/-	10000/-	-	10	-	10	10	-	10	-	10	10
		Basket - making	5000/-	3000/-	2000/-	-	5000/-	5000/-	-	70	25	35	70	I	70	25	35	70
Ri Bhoi	RB- IW MP-	Stabilized Mud - making	50000/-	35000/-	15000/-	-	50000/-	50000/-	-	4	4	-	4	I	4	4	-	4
	VI VI	Vermi - compos - ting	25000/-	20000/-	5000/-	-	25000/-	25000/-	-	4	-	4	4	-	4	-	4	4
		Kitchen - gardening	2000/-	500/-	2500/-	-	2500/-	2500/-	-	300	-	300	30 0	-	30 0	-	300	300

(Contd.)

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

 Table 7.7.3 Details of other livelihoods created for landless people:

	9	10			11		12
No of pors	ons employed			Impact of livelih	noods programm	ne	
-	in the activity	Annual increase in income due to	0	ration eneficiaries)	-	of backward- linkages	Any other information
Total	Grand Total (8+9)	activity (Rs.)	Pre-project	Post-project	Pre-project	Post-project	(pl. Specify)
(i) 5	15	30,000	-	-	-	-	-
(ii) 50	120	50,000	-	-	-	-	-
(iii) 10	14	45,000	-	-	-	-	-
(iv) 10	14	25,000	-	-	-	-	-
(v) 60	360	20,000	-	-	-	-	-

Table 7.7.4 Details of other livelihoods created for farmers:

1	2	3	4		5			6	7				8			
			Fund required	Sour		nding (Rs khs	s.) in	Actual Expenditure	No.	of farı	ners t	rained	No		rmers activit	taking y
District	Project	Name of activity	for the activity (Rs.) in lakhs	Project Fund	Benefi -ciary	Others (pl. specify)	Total	incurred on activity (Rs.)	SF	MF	LF	Total	SF	MF	LF	Total
		i) Betelnut soaking	5.0	4.75	0.25	-	5.0	5.0	-	-	-	100	-	-	-	100
	RB-	ii) Fruit processing	2.0	1.90	0.10	-	2.0	2.0	I	I	-	20	-	I	-	20
Ri Bhoi	IWMP- VI	iii) Rural Godown	6.0	5.70	0.30	-	6.0	6.0	I	I	-	30	-	I	-	30
		iv) Canes & Handicraft	1.60	1.52	0.08	-	1.60	1.60	-	-	-	40	-	-	-	40

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

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

	9	10]	11		12
No of pore	ons employed			Impact of livelih	oods programn	ne	
-	in the activity	Annual increase in income due to	Migration (No. of beneficiaries)		-	of backward- linkages	Any other information
Total	Grand Total (8+9)	activity (Rs.)	Pre-project	Post-project	Pre-project	Post-project	(pl. Specify)
(i) 203	303	50,000	-	-	-	-	-
(ii) 147	167	40,000	-	-	-	-	-
(iii) 200	230	25,000			-	-	_
(iv) 200	240	60,000	-	-	-	-	-

Table 7.8 Marketing related outcomes:

Backward-Forward linkages *

1	2	3	4	5	6
District	Project	Type of Marketing Facility	Pre-project (no.)	During the project (no.)	Post- project (no.)
		(A) Backward linkages			
		(i) Seed certification	-	-	-
		(ii) Seed supply system	-	-	-
		(iii) Fertilizer supply system	-	-	-
		(iv) Pesticide supply system	-	-	-
		(v) Credit institutions	-	4	10
		(vi) Water supply	-	-	3
		(vii) Extension services	-	20	30
		(viii) Nurseries	-	-	1 no.
		(ix) Tools/machinery suppliers	-	2	2
	RB-IWMP-	(x) Price Support system	-	-	-
Ri Bhoi	VI	(xi) Labour	-	4000	6000
		(xii) Any other (please specify)	-	-	-
		(A) Forward linkages		-	-
		(i) Harvesting/threshing machinery	-	-	-
		(ii) Storage (including cold storage)	-	1 no.	1 no.
		(iii) Road network	-	-	-
		(iv) Transport facilities	-	2 nos.	2 nos.
		(v) Markets / Mandis	-	1 no.	1 no.
		(vi) Agro and other Industries	-	120 nos.	150 nos.
		(vii) Milk and other collection centres	-	-	-
		(viii) Labour	-	6000	8000
		(ix) Any other (please specify)	-	-	-

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

Table 7.9 Abstract of outcomes:

1	2		3	4	5	6	7
Sl. No.	State		Item	Unit	Pre-project Status	Post-project Status	Remarks
		Sta	atus of water table		-	-	
			ound water structures repaired/		-	19 nos.	
			uvenated				
			ality of drinking water		Moderate potable	Improved	
			vailability of drinking water		Insufficient	Sufficient	
			crease in irrigation potential		-	19 nos.	
			ange in cropping/ land use pattern		Monocropping	Doublecropping	
			ea under agricultural crop				
		i	Area under single crop		-	-	
		ii			-	-	
			Area under multiple crop		-	1000 ha	
			t increase in crop production area				
			crease in area under vegetation		-	25 ha	
			crease in area under horticulture		-	60 ha	
		_	crease in area under fuel & fodder		-	-	
			crease in milk production		-	-	
			o. of SHGs		2 nos.	10 nos.	
		Inc	crease in no. of livelihoods		-	12 nos.	
		Inc	crease in income		-	45,000	
			gration		-	-	
			o. of school going children		120 nos.	350 nos.	
		SH	IG Federations formed		-	-	
		Cr	edit linkage with banks		-	15 nos.	
			source use agreements		-	4 nos.	
		W	DF collection & management		-	4 no.	
		Su	mmary of lessons learnt	May be	e attached as a separa	te file	

Table 7.10 Cost effectiveness of structures/ activities*

1	2	3	4	5	6	7	8	9	10
District	Name of project	Name of WC	Name of structure/ activity	Estimated cost (Rs.)	Expected quantifiable benefits (Rs.)	Expenditure incurred (Rs.)	Actual quantifiable benefit (Rs.)	Benefit: Cost ratio [#]	IRR
Ri Bhoi	RB- IWMP-VI	Lower Umlathu	As per Treatment Plan	117.0 lakhs	175.50 lakhs	117.0 lakhs	146.25 lakhs	1.25	-

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

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

ANNEXURE I

MAPS














ANNEXURE II

SOCIO-ECONOMIC SURVEY DETAILS

SOCIO ECONOMIC SURVEY OF UMTYRNGA VILLAGE

SI. No	Name of the head family			House Ho	old Memb	er			Literacy				Livesto	ck		Agriculture	Annual Income
_	· · · · · · · · · · · · · · · · · · ·	Male	Female	Total	Minor	Adult	Total	Male	Femal	Total	Cow	Pig	Goat	Poultr	Tota		
									е					у	I		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1.	Santimaia Khongjoh	3	3	6	4	2	6	1	1	2	No	No	No	4	4	Betel leaf Cultivation	Rs.30,000/-
2.	Donsuk Khoongjoh	4	1	6	3	3	6	No	No	No	No	No	No	No	No	Betel leaf Cultivation	Rs.30,000/
3.	Bril Tangsang	5	1	6	4	2	6	No	No	No	No	No	No	No	No	Betel leaf Cultivation	Rs.30,000/
4.	Sijen Lynshing	6	2	8	6	2	8	No	2	2	No	No	No	No	4	Betel leaf Cultivation	Rs.35,000/-
5.	Iai Lyngshing	1	1	2	No	2	2	No	No	No	No	No	No	4	No	Betel leaf Cultivation	Rs.25,000/-
6.	Muhon Daloi	4	2	6	4	2	6	No	No	No	No	2	No	5	7	Betel leaf Cultivation	Rs.30,000/-
7.	Midon Suting	2	3	5	2	3	5	No	No	No	No	2	No	6	8	Betel leaf Cultivation	Rs.25,000/-
8.	Syai Suting	2	1	3	1	2	3	No	No	No	No	No	No	No	No	Betel leaf Cultivation	Rs.50,000/-
9.	Bithi Patar	3	1	4	2	2	4	No	No	No	No	3	No	No	No	Betel leaf Cultivation	Rs.20,000/-
10	Kale Rongjon	2	1	3	1	2	3	No	No	No	No	No	No	No	No	Betel leaf Cultivation	Rs.25,000/-
11.	Subon Khongmalai	3	3	6	4	2	6	No	No	No	No	No	No	6	6	Betel leaf Cultivation	Rs.20,000/-
12.	Pho Khongjoh	2	2	4	1	3	4	No	No	No	No	No	No	8	8	Betel leaf Cultivation	Rs.40,000/-
13.	Drim Khriam	2	4	6	4	2	6	No	No	No	No	No	No	No	No	Betel leaf Cultivation	Rs.25,000/-
14.	Philson Pyngrope	4	4	8	6	2	8	No	1	1	1	No	No	No	No	Betel leaf Cultivation	Rs.50,000/-
15.	Tharim Khongjoh	5	1	6	5	1	6	No	No	No	No	No	No	No	No	Betel leaf Cultivation	Rs.25,000/-
16.	Khusimon Khongjoh	2	1	3	1	2	3	No	No	No	No	No	No	No	No	Betel nut Cultivation	Rs.30,000/-
17.	Kynton Khongjoh	1	2	3	1	2	3	No	No	No	No	No	No	No	No	Betel Cultivation	Rs.25,000/-
18.	Palei Kshiar	1	No	1	No	1	1	No	No	No	No	No	No	No	No	Betel leaf Cultivation	Rs.20,000/-
19.	Hot Pyngrope	1	No	1	No	1	1	No	No	No	No	No	No	No	No	Betel leaf Cultivation	Rs.20,000/-
20.	Syndon Daloi	1	3	4	2	2	4	No	No	No	No	No	No	No	No	Betel leaf Cultivation	Rs.25,000/-
21.	Dising Khongtani	1	4	5	3	2	5	No	No	No	No	No	No	8	8	NIL	Rs.25,000/-
22.	Maya Nongrum	5	3	8	6	2	8	No	No	No	No	No	No	5	5	NIL	Rs.35,000/-
23.	Kistarshon Rynjah	2	2	4	2	2	4	No	No	No	No	No	No	No	No	Broom Cultivation	Rs.25,000/-
24.	Keren Khongjoh	3	3	6	4	2	6	No	No	No	No	No	No	No	No	Betel leaf Cultivation	Rs.35,000/-
25.	Heren Suting	2	3	5	3	2	5	1	No	No	No	No	No	No	No	Betel leaf Cultivation	Rs.50,000/-
26.	Muti Pator	2	1	3	No	3	3	No	No	No	No	No	No	No	No	Betel leaf Cultivation	Rs.25,000/-
27.	Moren Suting	5	2	7	4	3	7	2	1	1	3	2	No	7	9	Betel leaf Cultivation	Rs.35,000/-
28.	Kalwin Pala	3	3	6	4	2	6	1	No	No	1	No	No	No	No	Betel leaf Cultivation	Rs.25,000/-
29.	Jedra Tangsang	2	3	5	3	2	5	No	No	No	No	No	No	No	No	Betel leaf Cultivation	Rs.25,000/-
30.	Saibimen Umsong	4	3	7	4	3	7	No	1	1	1	No	No	No	No	Betel leaf Cultivation	Rs.25,000/-
31.	Proboth Nath	2	4	6	4	2	6	2	2	2	4	No	No	No	No	NIL	Rs.35,000/-
32.	Binita Teron	1	2	3	1	2	3	1	No	No	1	No	No	No	No	NIL	Rs.25,000/-
																	74

SI.				House He	old Membe	er			Literacy				Livesto	:k		Agriculture	Annual
No	Name of the head family	Male	Female	Total	Minor	Adult	Total	Male	Femal	Total	Cow	Pig	Goat	Poultr	Tota	_	Income
									е					у	1		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
33.	Mokesh Teron	1	1	2	No	2	2	1	No	No	No	No	No	4	4	NIL	Rs.20,000/-
34.	Rimon Khongtani	1	2	3	2	1	3	No	No	No	No	2	No	3	5	Betel leaf Cultivation	Rs15,000/
35.	L.G Suting	2	2	4	2	2	4	No	No	No	No	No	No	No	No	Betel leaf Cultivation	Rs.10,000/
36.	Saily Suting	1	1	3	No	2	2	1	No	No	No	No	No	No	No	Betel leaf Cultivation	Rs.10,000/-
37.	Miksing Suting	1	2	2	1	2	3	1	No	1	No	No	No	No	No	NIL	Rs.15,000/-
38.	Dwen Tangsang	2	2	4	2	2	4	No	1	1	No	2	No	No	No	Betel leaf Cultivation	Rs.20,000/-
39.	David Suting	1	3	4	2	2	4	No	No	1	No	2	No	No	No	Betel leaf Cultivation	Rs.6000/-
40.	Kristina Khongjoh	No	3	3	2	1	3	No	No	No	No	No	No	No	No	Betel leaf Cultivation	Rs.10,000/-
41.	Pisynroi Pyngrope	3	2	5	3	2	5	No	1	No	No	3	No	No	No	Betel leaf Cultivation	Rs.10,000/-
42.	Ebren Khongjoh	6	3	9	7	2	9	No	2	1	No	No	No	No	No	Betel leaf Cultivation	Rs.20,000/-
43.	Markus Mawlong	6	2	8	6	2	8	4	No	2	No	No	No	6	6	Betel leaf Cultivation	Rs.25,000/-
44.	Mukut	3	2	5	3	2	5	1	No	4	No	No	No	8	8	Betel leaf Cultivation	Rs.10,000/-
45.	Loket Tangsang	2	4	6	3	3	6	No	No	1	No	No	No	No	No	Betel leaf Cultivation	Rs.10,000/-
46.	Robat Marak	4	1	5	3	2	5	No	No	No	No	No	No	No	No	NIL	Rs.15,000/-
47.	Sopaul Musmo	2	2	4	2	2	4	1	Nil	No	No	No	No	No	No	NIL	Rs.20,000/-
48.	Len Jakwa	1	3	4	2	2	4	No	No	1	1	No	No	No	No	NIL	Rs.60,000/-
49.	Phar Phulorabha	4	2	6	4	2	6	No	No	No	2	No	5	7	14	NIL	Rs.35,000/-
50.	Beda Pyngrope	2	3	5	3	2	5	No	No	No	No	No	No	No	No	Betel leaf Cultivation	Rs.25,000/-
51.	Muhon Rynjah	1	3	4	2	2	4	No	No	No	No	No	No	No	No	Broom Cultivation	Rs.10,000/-
52.	Saila Pradhan	5	1	6	4	2	6	No	No	No	No	No	No	4	4	Betel leaf Cultivation	Rs.15,000/-
53.	Bhai Pradhan	2	1	3	1	2	3	No	No	No	No	No	No	No	No	NIL	Rs.20,000/-
54.	Buno Pradhan	1	2	3	1	2	3	No	No	No	No	No	No	No	No	NIL	Rs.15,000/-
55.	Shute Pradhan	1	2	3	1	2	3	No	No	No	No	No	No	No	No	NIL	Rs.30,000/-
56.	Robi Karmakar	4	2	6	4	2	6	No	No	No	No	No	No	No	No	NIL	Rs.15,000/-
57.	Donbok Kharshandi	4	7	11	9	2	11	1	No	No	No	No	No	No	No	NIL	Rs.60,000/-
58.	Santosh Suba	3	3	6	4	2	6	No	No	No	No	No	No	No	No	NIL	Rs.45,000/-
59	Kanru Suba	2	1	3	1	2	3	2	1	1	No	2	No	7	No	NIL	Rs.30,000/-
60.	Punian Pator	3	2	5	3	2	5	1	No	No	2	1	No	3	6	Betel leaf Cultivation	Rs.40,000/-
61.	Bigrom Rabha	3	1	4	2	2	4	No	No	No	No	No	No	6	8	NIL	Rs.30,000/-
62.	Bipul Rabha	3	1	4	2	2	4	No	1	1	1	No	5	12	18	NIL	Rs50,000/-
63.	Bimol Rabha	1	1	2	No	2	2	2	2	2	No	No	No	No	No	NIL	Rs.25,000/-
64.	Minde Suba	2	1	3	1	2	3	1	No	No	No	No	6	12	18	NIL	Rs.35,000/-

SI.				House Ho	old Membe	er			Literacy				Livesto	;k		Agriculture	Annual
No	Name of the head family	Male	Female	Total	Minor	Adult	Total	Male	Femal	Total	Cow	Pig	Goat	Poultr	Tota		Income
									е					у			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
65	Tele Jalrwa	1	1	2	No	2	2	1	No	No	No	No	No	4	4	NIL	Rs.20,000/-
66	Tulsi Major	1	2	3	2	1	3	No	No	No	No	2	No	3	5	Betel leaf Cultivation	Rs15,000/
67	Jwep Lyngshing	2	2	4	2	2	4	No	No	No	No	No	No	No	No	Betel leaf Cultivation	Rs.10,000/
68	Tiling Pyngrope	1	1	3	No	2	2	1	No	No	No	No	No	No	No	Betel leaf Cultivation	Rs.10,000/-
69	Dim Suting	1	2	2	1	2	3	1	No	1	No	No	No	No	No	NIL	Rs.15,000/-
70	Bring Sungoh	2	2	4	2	2	4	No	1	1	No	2	No	No	No	Betel leaf Cultivation	Rs.20,000/-
71	Meghalaya Pyngrope	1	3	4	2	2	4	No	No	1	No	2	No	No	No	Betel leaf Cultivation	Rs.6000/-
72	Rani Kurbah	No	3	3	2	1	3	No	No	No	No	No	No	No	No	Betel leaf Cultivation	Rs.10,000/-
73	Duh Kurbah	3	2	5	3	2	5	No	1	No	No	3	No	No	No	Betel leaf Cultivation	Rs.10,000/-
74	Bahrit Kurbah	6	3	9	7	2	9	No	2	1	No	No	No	No	No	Betel leaf Cultivation	Rs.20,000/-
75	Swer Marbaniang	6	2	8	6	2	8	4	No	2	No	No	No	6	6	Betel leaf Cultivation	Rs.25,000/-
76	Parbeda Rynjah	3	2	5	3	2	5	1	No	4	No	No	No	8	8	Betel leaf Cultivation	Rs.10,000/-
77	Rit Khongjoh	2	4	6	3	3	6	No	No	1	No	No	No	No	No	Betel leaf Cultivation	Rs.10,000/-
78	Shai Khongjoh	4	1	5	3	2	5	No	No	No	No	No	No	No	No	NIL	Rs.15,000/-
79	Burmon Khongjoh	2	2	4	2	2	4	1	Nil	No	No	No	No	No	No	NIL	Rs.20,000/-
80	Kben Khongjoh	1	3	4	2	2	4	No	No	1	1	No	No	No	No	NIL	Rs.60,000/-
81	Adren Sungoh	4	2	6	4	2	6	No	No	No	2	No	5	7	14	NIL	Rs.35,000/-
82	Bunsen Pyngrope	2	3	5	3	2	5	No	No	No	No	No	No	No	No	Betel leaf Cultivation	Rs.25,000/-
83	Albarin Suting	1	3	4	2	2	4	No	No	No	No	No	No	No	No	Broom Cultivation	Rs.10,000/-
84	Teishwa Suting	5	1	6	4	2	6	No	No	No	No	No	No	4	4	Betel leaf Cultivation	Rs.15,000/-
85	Mistina Suting	2	1	3	1	2	3	No	No	No	No	No	No	No	No	NIL	Rs.20,000/-
86	Samson Suting	1	2	3	1	2	3	No	No	No	No	No	No	No	No	NIL	Rs.15,000/-
87	Marshal Kshiar	1	2	3	1	2	3	No	No	No	No	No	No	No	No	NIL	Rs.30,000/-
88	Biston Khriam	4	2	6	4	2	6	No	No	No	No	No	No	No	No	NIL	Rs.15,000/-
89	Pramus Pala	4	7	11	9	2	11	1	No	No	No	No	No	No	No	NIL	Rs.60,000/-
90	Pali Suting	3	3	6	4	2	6	No	No	No	No	No	No	No	No	NIL	Rs.45,000/-
91	Phlon bet Khongtani	2	1	3	1	2	3	2	1	1	No	2	No	7	No	NIL	Rs.30,000/-
92	Tison Suting	3	2	5	3	2	5	1	No	No	2	1	No	3	6	Betel leaf Cultivation	Rs.40,000/-
93	Kistalin Suting	3	1	4	2	2	4	No	No	No	No	No	No	6	8	NIL	Rs.30,000/-
94	Snolin Khongjee	3	1	4	2	2	4	No	1	1	1	No	5	12	18	NIL	Rs50,000/-
95	Ren Muiong	1	1	2	No	2	2	2	2	2	No	No	No	No	No	NIL	Rs.25,000/-
96	Phlat Tangsang	2	1	3	1	2	3	1	No	No	No	No	6	12	18	NIL	Rs.35,000/-

No	Name of the head family																Income
		Male	Female	Total	Minor	Adult	Total	Male	Female	Total	Cow	Piq	Goat	Poultry	Total		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
97	Jenesis Tangsang	No	5	5	4	5	5	No	2	2	No	No	No	No	No	Betel leaf Cultivation	Rs.15,000/-
98	Meril Tangsang	2	3	5	3	2	5	2	3	5	No	No	No	No	No	NIL	Rs20,000/
99	Khrek Suting	5	3	8	6	2	8	2	No	2	No	No	No	No	No	Betel leaf Cultivation	Rs.25,000/
100	Tapon Buio	2	2	4	2	2	4	No	No	No	No	1	No	No	1	NIL	Rs.30,000/-
101	Bukul Buio	2	2	4	2	2	4	No	No	No	No	2	No	No	2	NIL	Rs.15,000/-
102	Maduli Sohpdong	3	2	5	1	4	5	No	1	No	No	1	No	No	1	NIL	Rs.15,000/-
103	Makseng Baro	3	2	5	3	2	5	No	No	No	No	No	No	No	No	NIL	Rs.20,000/-
104	Mudon Daloi	1	2	3	1	2	3	No	No	No	No	3	No	No	3	NIL	Rs.31,000/-
105	Joyanto Boro	2	2	4	3	1	4	No	1	No	No	No	No	No	No	NIL	Rs.20,000/-
106	Bily Sohpdang	2	2	4	2	2	4	No	2	No	No	No	No	No	No	NIL	Rs.20,000/-
107	Mudon Boro	2	2	4	3	1	4	No	No	No	No	2	No	No	2	NIL	Rs.20,000/-
108	Wel Khongjoh	4	2	6	4	2	6	1	No	No	No	No	No	7	7	Betel leaf Cultivation	Rs.15,000/-
109	Trosting Tangsang	2	2	4	2	2	4	No	No	No	No	No	No	No	No	Betel leaf Cultivation	Rs.10,000/-
110	Master Kshiar	1	No	1	No	1	1	No	No	No	No	No	No	No	No	Betel leaf Cultivation	Rs.5,000/-
111	Phoret Nialang	1	3	4	2	2	4	1	Nil	No	No	No	No	No	No	Betel leaf Cultivation	Rs.10,000/-
112	Embok Dkhar	3	1	4	2	2	4	No	No	No	No	No	No	5	5	Betel leaf Cultivation	Rs.5000/-
113	Dit Tangsang	1	1	2	1	1	2	No	No	No	No	No	No	No	No	Betel leaf Cultivation	Rs.6000/-
114	Arun Rani	4	1	5	3	2	5	1	1	2	No	No	No	No	No	NIL	Rs.15,000/-
115	Pelas Khongkiang	1	2	3	1	2	3	No	No	No	No	2	No	No	2	Betel leaf Cultivation	Rs.20,000/-
116	Lomi Suting	4	3	7	5	2	7	1	No	No	No	No	No	No	No	Betel leaf Cultivation	Rs.15,000/-
117	Kabriel Tangsang	1	2	3	1	2	3	No	No	No	No	No	No	No	No	Betel leaf Cultivation	Rs.9000/-
118	Daniel Nongrum	1		4	3	2	4	1	No	1	No	No	No	No	No	Ginger Cultivation	Rs.40,000/-
119	Helin Lyngdoh	1	4	5	3	2	5	No	No	No	No	No	No	No	No	Betel leaf Cultivation	Rs.30,000/-
120	Tharina Tangsang	1	2	3	1	2	3	No	No	No	No	No	No	No	No	Betel leaf Cultivation	Rs.20,000/-
121	Libina Tangsang	2	1	3	1	2	3	1	No	No	No	No	No	No	No	NIL	Rs.10,000/-
122	Iada Suting	2	1	3	1	2	3	No	1	2	No	No	No	No	No	Betel leaf Cultivation	Rs.10,000/-
123	Krasting Pyngrope	2	1	3	1	2	3	2	No	1	No	No	No	No	No	Betel leaf Cultivation	Rs.30,000/-
124	Wanbun Tangsang	1	3	4	2	2	4	1	No	No	No	No	No	No	No	Betel leaf Cultivation	Rs.20,000/-
125	Bombe Suting	4	2	6	4	2	6	No	1	No	No	No	No	No	No	Betel leaf Cultivation	Rs.35,000/-
126	Isjen Kshiar	1	3	4	2	2	4	No	No	No	No	No	No	No	No	Betel leaf Cultivation	Rs30,000/-
127	Koman Dkhar	1	3	4	2	2	4	2	No	No	No	No	No	No	No	Betel leaf Cultivation	Rs.15,000/-
128	Kjem Dkhar	No	2	2	1	1	2	1	1	1	No	No	No	No	No	Betel leaf Cultivation	Rs.20,000/-

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
129	Mawshan Dkhar	1	2	3	1	2	3	No	Betel leaf Cultivation	Rs.20,000/-							
130	Wansi Khongjoh	5	2	7	5	2	7	No	Betel leaf Cultivation	Rs35,000/							
131	Saibin Suting	3	5	8	6	2	8	No	2	2	No	No	No	5	5	Betel leaf Cultivation	Rs.35,000/
132	Klan Suting	2	1	3	1	2	3	No	Betel leaf Cultivation	Rs.20,000/-							
133	Bon Suting	No	1	1	No	1	1	No	Betel leaf Cultivation	Rs.25,000/-							
134	Boni Khongmalai	1	1	2	No	2	2	1	No	1	No	No	No	No	No	Betel leaf Cultivation	Rs.30,000/-
135	Jermon Suting	1	2	3	1	2	3	1	No	1	No	No	No	No	No	Betel leaf Cultivation	Rs.30,000/-
136	Minot Mutiong	2	2	4	1	3	4	1	1	2	No	No	No	No	No	Betel leaf Cultivation	Rs.35,000/-
137	Projen Tangsang	3	3	6	4	2	6	No	No	No	No	No	No	25	25	Betel leaf Cultivation	Rs.20,000/-
138	Kyrsoi Suting	4	3	7	4	3	7	No	Betel leaf Cultivation	Rs.25,000/-							
139	Dole Chatri	1	1	2	No	2	2	No	NIL	Rs.20,000/-							
140	Iston Kshiar	3	2	5	3	3	5	1	No	1	No	No	No	No	No	Betel leaf Cultivation	Rs.25,000/-
141	Syop Suting	1	1	2		2	2	No	Betel leaf Cultivation	Rs.30,000/-							
142	Sohnam Suting	3	2	5	4	5	5	No	Betel leaf Cultivation	Rs.25,000/-							
143	Pishot Lapasam	3	2	5	3	5	5	No	Betel leaf Cultivation	Rs.30,000/-							
144	Jinus Pala	1	2	3	1	3	3	No	1	1	No	No	No	No	No	Betel leaf Cultivation	Rs.3000/-
145	Kompher Lapasam	3	2	5	3	5	5	No	1	1	No	No	No	No	No	Betel leaf Cultivation	Rs.3500/-
146	Jelsi Suting	6	1	7	5	7	7	No	NIL	Rs.35,000/-							
147	Joit Khongkiang	3	3	6	3	6	6	No	No	No	No	No	No	5	5	Betel leaf Cultivation	Rs.25,000/-
148	Bianlymery Lapasam	2	2	4	1	4	4	1	1	2	No	No	No	No	No	Betel leaf Cultivation	Rs.40,000/-
149	Jermy Lapasam	1	No	1	No	1	1	No	Betel leaf Cultivation	Rs.25,00/-							
150	Ho Khongjoh	3	3	6	4	6	6	No	Ginger Cultivation	Rs.20,000/-							
151	Ribhalang Suting	2	2	4	2	4	4	No	Betel leaf Cultivation	Rs.20,000/-							
152	Morning Sungoh	3	2	5	3	5	5	No	Betel leaf Cultivation	Rs.30,000/-							
153	EG Pyngrope	4	1	5	3	5	5	No	NIL	Rs.40,000/-							
154	MB Pala	3	4	7	5	7	7	1	1	2	No	No	No	No	No	Betel leaf Cultivation	Rs.20,000/-
155	Hill Shylla	4	2	6	4	6	6	1	No	1	No	No	No	4	4	Betel leaf Cultivation	Rs.30,000/-
156	Phaisilin Mukhim	2	2	4	2	4	4	No	1	1	No	No	No	No	No	Betel leaf Cultivation	Rs.25,000/-
157	Jam Lapasam	4	3	7	5	7	7	No	1	1	No	No	No	No	No	Betel leaf Cultivation	Rs.20,000/-
158	Pilling Sungoh	3	4	7	5	7	7	No	Betel leaf Cultivation	Rs25,000/-							
159	Dakerlang	1	2	3	3	3	3	No	Betel leaf Cultivation	Rs.25,000/-							
160	Willson Suting	3	2	5	3	5	5	1	No	1	No	No	No	No	No	Betel leaf Cultivation	Rs.30,000/-

161	Khren Tangsang	1	5	6	4	2	6	No	1	1	No	No	No	No	No	Betel leaf Cultivation	Rs.30,000/-
162	Bijoy Suting	1	3	4	2	2	4	1	No	1	No	No	No	No	No	Betel leaf Cultivation	Rs25,000/
163	Saran Lyngdoh	4	1	5	3	2	5	No	Betel leaf Cultivation	Rs.20,000/							
164	Jemen Suting	3	2	5	1	4	5	No	Betel leaf Cultivation	Rs.30,000/-							
165	Phet Tangsang	1	No	1		1	1	No	No	1	No	No	No	No	No	Betel leaf Cultivation	Rs.25,000/-
166	Khardud Pradhan	1	No	1	11	1	1	No	No	No	No	No	No	6	6	NIL	Rs.20,000/-
167	Shrek Suting	7	3	1	8	2	10	1	No	1	No	No	No	No	No	Betel leaf Cultivation	Rs.35,000/-
168	Klemen Pala	4	4	8	5	3	8	No	No	No	No	2	No	No	2	Betel leaf Cultivation	Rs.20,000/-
169	Jwan Suting	No	2	2		2	2	No	Betel leaf Cultivation	Rs.35,000/-							
170	John Rani	4	1	5	3	2	5	1	1	2	No	No	No	No	No	Betel leaf Cultivation	Rs.20,000/-
171	Wingson Suting	1	1	2		2	2	1	No	No	No	2	No	No	No	Betel leaf Cultivation	Rs.20,000/-
172	Lyngkria Khongjoh	2	2	4	3	1	4	No	NIL	Rs.40,000/-							
173	Triang Kshiar	2	6	8	6	2	8	No	2	2	No	No	No	No	No	Betel leaf Cultivation	Rs.40,000/-
174	Kmoin Kshiar	5	5	10	6	4	10	1	4	5	No	No	No	No	No	Betel leaf Cultivation	Rs.55,000/-
175	Aibor Kshiar	6	5	11	8	3	11	3	2	5	No	No	No	No	No	Betel leaf Cultivation	Rs.35,000/-
176	Sngewbha Suting	3	2	5	3	2	5	1	No	1	No	No	No	No	No	Betel leaf Cultivation	Rs.30,000/-
177	Adjuret Sangma	2	5	7	5	2	7	No	1	1	No	No	No	No	No	Betel leaf Cultivation	Rs.20,00/-
178	Sorshon Kshiar	2	2	4	2	2	4	No	Betel leaf Cultivation	Rs.20,,000/-							
179	Kjep Suting	1	1	2		2	2	1	No	No	No	1	No	No	1	Betel leaf Cultivation	Rs.25,000/-
180	Kshe Suting	2	2	4	3	1	4	2	1	2	No	No	No	No	No	Betel leaf Cultivation	Rs.20,000/-
181	Romel Kharthangmaw	5	2	7	5	2	7	1	No	1	No	2	No	No	2	Paddy Cultivation	Rs.35,00/-
182	Dwin Bhoi	2	3	4	2	2	4	No	NIL	Rs.35,000/-							
183	Busco Nongrum	1	1	2		2	2	1	1	2	No	No	No	No	No	Paddy Cultivation	Rs.30,000/-
184	Thomas Pala	2	3	5	3	2	5	No	Betel leaf Cultivation	Rs.20,000/-							
185	Aisha Takwa	1	2	3	1	2	3	No	NIL	Rs.20,000/-							
186	Ritaul Lyngshing	3	3	6	4	2	6	No	Betel leaf Cultivation	Rs.35,000/-							
187	Krit	2	2	4	2	2	4	No	NIL	Rs.20,000/-							
188	Lyun Tangsang	2	4	6	4	2	6	No	Betel leaf Cultivation	Rs.35,000/-							
189	Siolin Tangsang	1	1	2	1	1	2	No	Betel leaf Cultivation	Rs.20,000/-							
190	Bakordor Dkhar	2	2	4	2	2	4	No	Betel leaf Cultivation	Rs30,000/-							
191	Dngon Tangsang	2	1	3	1	2	3	1	No	1	No	No	No	No	No	Betel leaf Cultivation	Rs.20,000/-
192	Wankyrmen Khriam	1	2	3	1	2	3	No	1	1	No	No	No	No	No	Betel leaf Cultivation	Rs.25,000/-
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

193	Kwen Pyngrope	1	3	4	2	2	4	No	NIL	Betel leaf Cultivation	Rs.25,000/-						
194	Engineer Khongjoh	1	No	1	No	1	1	No	NIL	Nil	Rs20,000/						
195	Bad Shylla	1	No	1	No	1	1	No	NIL	Betel leaf Cultivation	Rs.30,000/						
196	Krein Suting	1	1	1	No	1	1	No	NIL	Betel leaf Cultivation	Rs.30,000/-						
197	Olondo Jakwa	3	No	4	2	2	4	No	NIL	Betel leaf Cultivation	Rs.25,000/-						
198	Laimon Mylliemngap	1	No	1	No	1	1	1	No	No	No	No	No	No	NIL	Betel leaf Cultivation	Rs.20,000/-
199	Plojain Suting	1	1	2	No	2	2	1	No	Betel leaf Cultivation	Rs.30,000/-						
200	Rajuni Raska	1	2	3	1	2	3	1	No	NIL	Rs.25,000/-						
201	Bubu Chetri	1	2	4	2	2	4	No	NIL	Rs.20,000/-							
202	Ram Shari Boro	1	3	4	1	3	4	No	No	No	No	No	2	No	2	NIL	Rs.25,000/-
203	Jiten Boro	2	2	4	2	2	4	No	NIL	Rs.20,000/-							
204	Komal Boro	2	1	3	1	2	3	1	No	NIL	Rs30,000/-						
205	Bekla Boro	3	2	5	3	2	5	No	No	No	No	3	No	No	3	NIL	Rs30,000/-
206	Robin Boro	2	1	3	1	2	3	No	No	No	No	1	No	No	1	NIL	Rs.35,000/-
207	Dakson Suting	3	2	4	2	2	4	No	No	1	No	No	No	15	15	NIL	Rs.25,000/-
208	Nojen Boro	2	2	4	2	2	4	No	NIL	NIL	Rs.70,000/-						
209	Rohim D. Sangma	2	3	5	3	2	5	No	No	No	No	2	No	No	2	NIL	Rs.35,000/-
210	Disi Kshiar	1	2	3	1	2	3	1	1	1	No	No	No	No	NIL	NIL	Rs.35,000/-
211	Leder Pyngrope	1	1	2	No	2	2	No	1	1	No	No	No	No	NIL	Betel leaf Cultivation	Rs30,000/-

SOCIO ECONOMIC SURVEY OF NAGRABILL VILLAGE

SI. No	Name of the Head Family		H	louse Hold	d Member				Literacy				Livesto	ock			Annual Income
		Male	Female	Total	Minor	Adult	Total	Male	Female	Total	Cow	Pig	Goat	Poultry	Total	Agriculture	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	S.M Arengh	6	4	10	4	6	10					2		10	12		60,000
2	P.G Momin	3	2	5	2	3	5					1		5	6		40,000
3	H.K Sangma	3	1	4	2	2	4					2		6	8		40,000
4	B.T. Sangma	4	4	8	4	4	8					1		8	11		35,000
5	L.R. marak	3	2	5	3	2	5					2	2	10	12		45,000
6	K.J Sangma	5	2	7	2	5	7					2		6	8		35,000
7	K.R Marak	1	1	2	0	2	2					1		5	6		60,000
8	S.K Sangma	3	2	5	1	4	5					2		3	5		56,000
9	T.B Sangma	2	2	4	1	3	4					2		10	15		30,000
10	A.T Sangma	2	2	4	1	3	4				3	1	3	12	18		40,000
11	L.R Marak	1	1	2	0	2	2				1	2	2	6	9		36,000
12	J.N Arengh	3	2	5	3	2	5				1	1		9	11		30,000
13	H.R Marak	4	2	6	4	2	6					1		8	9		40,000
14	M.D Sangma	3	3	6	2	4	6				2	2		12	16		30,000
15	M.K Sangma	2	2	4	1	3	4				2	1		6	9		36,000
16	D.M Arengh	3	2	5	2	3	5							5	5		30,000
17	B.M Sangma	5	2	7	4	3	7				5	2		16	23		40,000
18	Chondro Sangma	2	1	3	0	3	3							10	10		24,000
19	E.D Momin	2	2	4	1	3	4				2	1		5	8		30,000
20	Bimol Sangma	2	3	5	2	3	5							5	5		38,000
21	Aiith Boro	2	3	5	2	3	5					1		6	7		24,000
22	H.R. Marak	5	3	8	2	6	8				2	1		10	13		36,000
23	S.D Sangma	5	3	8	4	4	8				2	2		8	12		40,000
24	Jona J.Marak	2	3	5	2	3	5					1		6	7		36,000
25	L.R. Marak	1	1	2	0	2	2					2		14	16		40,000
26	H.K Sangma	4	2	6	3	3	6					1		6	7		36,000
27	Raju Rabha	3	1	4	2	2	4						1	12	13		30,000
28	N.G Momin	2	4	6	3	3	6				6			10	16		28,000
29	Juma C.Sangma	4	3	7	4	3	7				2			4	6		40,000
30	N.R Sangma	2	1	3	1	2	3							6	6		28,000
31	W.G Momin	4	2	6	4	2	6				5	1	4	12	22		32,000
32	N.K.Marak	6	4	10	5	5	10				8			6	14		40,000

SI. No	Name of the Head Family		Но	ouse Hol	d Membe	r			Literacy				Livesto	ock			Annual Income
		Male	Female	Total	Minor	Adult	Total	Male	Female	Total	Cow	Pig	Goat	Poultry	Total	Agriculture	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
33	D.R. Marak	3	2	5	3	2	5					1		5	6		36,000
34	R.R. Sangma	5	5	10	4	6	10					2		10	15		30,000
35	Dolendro Marak	4	4	8	4	4	8				3	2		6	8		45,000
36	Sollen Marak	2	2	4	1	3	4					2		9	11		24,000
37	K.D Sangma	2	2	4	2	2	4				1	1		5	7		24,000
38	S.K Sangma	1	2	3	1	2	3							10	10		36,000
39	Obhim C.Marak	2	3	5	3	2	5							6	6		24,000
40	R.G Momin	5	3	8	4	4	8				6	2		10	18		40,000
40	S.A Marak	3	2	5	2	3	5							10	10		32,000
42	M.M Arengh	2	2	4	2	2	4							6	7		60,000
43	Julia Arengh	3	2	5	2	3	5					1		14	14		20,000
44	P.D Sangma	2	2	4	2	2	4					2		6	6		24,000
45	M.D Sangma	3	3	6	3	3	6					1		10	13		30,000
46	N.D. Sangma	4	4	8	5	3	8					1		10	18		30,000
47	G.K Arengh	2	2	4	2	2	4				2	1		6	7		30,000
48	H.N Arengh	3	1	4	2	2	4				2	1		5	6		24,000
49	J.G. Monin	2	2	4	1	3	4				4	1		6	8		30,000
50	E.N Arengh	1	3	4	2	2	4				1			8	11		30,000
51	S.K. Marak	4	1	5	1	4	5							10	15		24,000
52	S.G. Momin	1	2	3	1	2	3							5	6		30,000
53	T.G.:Momin	2	1	3	1	2	3							4	4		24,000
54	P.T. Sangma	3	1	4	2	2	4							10	10		24,000
55	Samuel Rema	2	3	5	2	3	5				2	2		6	6		20,000
56	T.N Arengh	2	1	3	1	2	3							4	4		36,000
57	J.J. Sangma	3	3	6	2	4	6							10	14		30,000
58	H.G.Momin	3	1	4	1	3	4				2	1		6	6		30,000
59	P.D. Sangma	1	1	2	0	2	2							6	6		24,000
60	R.M.Arengh	3	2	5	0	5	5							10	13		24,000
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SOCIO ECONOMIC SURVEY OF CHIBRA VILLAGE

SI. No	Name of the head family		ł	louse Hol	ld Membe	r			Literacy				Livest	ock		Agriculture	Annual Income
		Male	Female	Total	Minor	Adult	Total	Male	Female	Total	Cow	Pig	Goat	Poultry	Total		
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.
1.	Winderson Marak	4	3	7	3	4	7	2	2	4	3	0	0	0	3	Garden	Rs.1,70,000/-
2.	Chobin Sangma	2	4	6	4	2	6	2	2	4	0	0	0	0	0	Garden	Rs.39,000/-
3.	Elbish Sangma	2	3	5	1	4	5	2	2	4	1	2	0	5	7	Garden	Rs.40,000/-
4.	Meju Sangma	3	4	7	3	4	7	2	2	4	3	2	15	5	25	Garden	Rs.1,70,000/-
5.	Sepina Marak	2	4	6	2	4	6	2	3	5	0	2	0	10	15	Garden	Rs.1,80,000/-
6.	Franchis Sangma	3	4	7	3	4	6	2	3	5	3	2	0	6	11	Garden	Rs.1,00000/-
7.	Solindro Sangma	2	3	5	1	4	5	0	0	0	0	0	0	0	0	Garden	Rs.9000/-
8.	Robi Sangma	2	3	5	2	3	5	0	1	1	0	1	0	3	4	Garden	Rs.1,80,000/-
9.	Sanu Marak	3	2	5	2	3	5	1	1	2	0	2	0	0	2	Garden	Rs.10,000/-
10	Jengson Marak	3	4	7	4	3	7	3	4	7	0	2	0	7	9	Garden	Rs.70,000/-
11.	Subin Sangma	1	1	2	0	2	2	1	1	2	0	0	0	12	12	Garden	Rs.10,000/-
12.	Chohtil Marak	1	4	5	3	2	5	1	2	3	0	0	0	3	3	Garden	Rs.9000/-
13.	Bijendro Sangma	1	2	3	0	3	3	1	2	3	0	3	0	5	8	Garden	Rs.1,80,000/-
14.	Olin Sangma	4	3	7	4	3	7	4	0	4	0	0	3	0	3	Garden	Rs.19,000/-
15.	Bitish Sangma	2	4	6	3	3	6	1	1	2	0	0	0	0	0	Garden	Rs.12,000/-
16.	Babujan Sangma	2	2	4	0	4	4	2	1	3	0	1	0	2	3	Garden	Rs.40,000/-
17.	Ahep Marak	1	1	2	0	2	2	1	1	2	0	0	0	2	2	Garden	Rs.80,000/-
18.	Jamal Sangma	4	2	6	3	3	6	3	1	4	0	0	0	0	0	Garden	Rs.10,000/-
19.	Jindal Marak	2	1	3	1	2	3	1	0	1	0	0	0	0	0	Garden	Rs.10,000/-
20.	Ali Sangma	2	2	4	1	3	3	0	1	2	3	0	6	10	16	Garden	Rs.1,50,000/-
21.	Hansing Marak	2	1	3	0	3	3	2	0	2	0	0	0	0	0	Garden	Rs.10,000/-
22.	Jonsing Momin	3	2	5	3	2	5	1	1	2	0	1	0	0	1	Garden	Rs.30,000/-
23.	Slostin Marak	3	2	5	1	4	5	1	1	2	0	0	0	0	0	Garden	Rs.1,70,000/-
24.	Jottin Sangma	2	1	3	1	2	5	0	0	0	0	1	0	0	1	Garden	Rs.1,70,000/-
25.	Gomal Marak	5	2	7	3	4	7	2	1	3	0	1	0	4	5	Garden	Rs.9000/-
26.	Repil Marak	1	2	3	1	2	3	1	0	1	0	1	0	0	1	Garden	Rs.12000/-
27.	Rosidu Sangma	1	2	3	1	2	3	0	1	1	0	0	0	2	2	Garden	Rs.10000/-
28.	Rajen Marak	2	2	4	2	2	4	1	0	1	0	2	0	3	5	Garden	Rs.10000/-
29.	Jakaresh Sangma	2	0	2	0	2	2	2	0	2	0	0	0	10	10	Garden	Rs.18000/-
30.	Amosh Sangma	3	4	7	4	3	7	3	2	5	0	1	0	20	24	Garden	Rs.20000/-
31.	Goget Sangma	2	1	3	1	2	3	1	1	2	1	1	0	5	7	Garden	Rs.10,000/-
32.	Chinson Sangma	2	3	5	1	4	5	2	2	4	2	2	0	10	14	Garden	Rs.10000/-

SI.			ŀ	louse Ho	ld Membe	r			Literacy				Livest	ock		Agriculture	Annual
No.	Name of the head family	Male	Female	Total	Minor	Adult	Total	Male	Female	Total	Cow	Pig	Goat	Poultry	Total	_	Income
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.
33.	Kala Sangma	4	3	7	3	4	7	4	3	7	2	0	0	10	12	Garden	Rs.1,20,000
34.	Jottish Sangma	4	4	8	4	4	8	1	3	4	0	1	0	0	1	Garden	Rs.1,30,000
35.	Prodip Marak	5	2	7	3	4	7	2	1	3	0	0	0	0	0	Garden	Rs.1,40,000
36	Robath Sangma	1	1	2	0	2	2	1	0	1	0	0	0	0	0	Garden	Rs.10,000/-
37.	Sikarson Sangma	1	2	3	1	2	3	0	0	2	0	0	0	0	0	Garden	Rs.10,000 /
38.	Biswajit Sangma	2	4	6	4	2	6	2	2	4	0	2	0	20	22	Garden	Rs.10,000 /
39.	Rolling Sangma	2	1	3	1	2	3	1	1	2	0	0	0	0	0	Garden	Rs.20,000/-
40.	Suresh Sangma	4	3	7	3	4	7	1	0	1	0	2	0	10	12	Garden	Rs.1,50,000
41.	Dondi Sangma	3	1	4	1	3	4	0	0	0	0	0	0	3	3	Garden	Rs.20,000/-
42.	Jitten Marak	1	5	6	3	3	6	0	3	3	0	2	0	10	12	Garden	Rs.20,000/-
43.	Bablu Marak	1	2	3	1	2	3	0	1	1	0	2	0	5	7	Garden	Rs.10,000/-
44.	Mittun Marak	2	3	5	3	2	5	0	0	0	0	0	0	0	0	Garden	Rs.12,000/-
45.	Hejani Marak	3	2	5	3	2	5	1	1	2	0	0	0	10	10	Garden	Rs.10,000/-
46.	Soito Sangma	1	2	3	1	2	3	0	0	0	0	0	0	13	13	Garden	Rs.10,000/-
47.	Binot Marak	3	2	5	3	2	5	0	0	0	0	0	0	0	0	Garden	Rs.1,70,000
48.	Satin Sangma	1	3	4	2	2	4	1	0	1	0	0	0	10	12	Garden	Rs.20,000/-
49.	Bharat Marak	2	3	5	2	3	5	1	2	3	0	0	0	10	10	Garden	Rs.2,0,0000
50.	Solace Marak	1	1	2	0	2	2	1	0	1	0	0	0	0	0	Garden	Rs.10,000/-
51.	James Marak	2	3	5	3	2	5	2	1	3	0	0	0	0	0	Garden	Rs.10,000/-

SOCIO ECONOMIC SURVEY OF JOL SYIEM VILLAGE

SI. No	Name of the head family		ŀ	House Ho	Id Memi	ber			Literacy	Ţ			Livesto	ck		Agriculture	Annual Income
		Male	Female	Total	Mino	Adult	Total	Male	Femal	Total	Cow	Pig	Goat	Poultr	Tota		
	<u> </u>		'	<u> </u>	r	<u> </u>			е					у		'	<u> </u> '
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	Marthias Marak	3	2	5	1	2	5	No	No	No	No	1	No	No	1	Betel leaf Cultivation	Rs10,000/-
2	Menoren Sangma	4	4	8	No	2	8	No	No	No	No	No	No	No	No	NIL	Rs6000/-
3	Pulmoni Marak	5	3	8	1	No	8	No	No	No	No	No	No	No	No	Betel leaf Cultivation	Rs10,000/-
4	Bitchon Sangma	3	3	6	1	No	6	No	No	No	3	1	No	No	4	Betel leaf Cultivation	Rs8000/-
5	Luktan Momin	2	3	5	1	No	5	No	1	1	No	2	No	No	2	Betel leaf Cultivation	Rs50,000/-
6	Perison Marak	3	4	4	1	1	7	No	No	No	3	1	No	No	4	NIL	Rs5000/-
7	Uttom Sangma	2	4	6	No	No	6	No	No	No	No	1	No	No	No	NIL	Rs10,000/-
8	Maujen Marak	1	1	2	No	No	2	No	No	No	No	No	No	No	No	NIL	Rs5000/-
9	Promuth Sangma	4	2	6	2	No	6	No	No	No	No	No	No	No	No	NIL	Rs7000/-
10	Bokdol Marak	3	1	4	1	No	4	No	No	No	No	1	No	No	1	Betel leaf Cultivation	Rs12,000/-
11	Sumauson Suting	5	2	7	1	No	7	No	No	No	3	No	No	No	3	Betel leaf Cultivation	Rs15,000/-
12	Uttul Marak	1	2	3	No	No	3	No	No	No	No	2	No	No	2	Betel leaf Cultivation	Rs20,000/-
13	Hebi Momin	2	3	5	No	2	5	No	No	No	No	No	No	No	No	NIL	Rs10,000/-
14	Lebing Sangma	3	4	7	1	1	7	No	No	No	2	1	No	No	3	NIL	Rs10,000/-
15	Selpa Momin	6	1	7	1	No	7	No	No	1	No	2	No	No	7	NIL	Rs42,000/-
16	Wellison Sangma	2	3	5	1	No	5	No	No	No	No	No	No	No	No	NIL	Rs15,000/-
17	Somnith Marak	1	1	2		No	2	No	No	No	No	1	No	No	1	NIL	Rs10,000/-
18	Mellen Sangma	3	2	5	2	No	5	1	No	1	No	No	No	No	No	NIL	Rs10,000/-
19	Jonna Sangma	2	2	4	No	No	4	2	No	2	No	1	No	No	1	Betel leaf Cultivation	Rs10,000/-
20	Minot Sangma	1	1	2	No	No	2	No	No	No	No	No	No	No	No	NIL	Rs6000/-
21	Topon Marak	2	1	3	1	No	3	No	No	No	No	No	No	No	No	NIL	Rs6000/-
22	Dilip Sangma	4	1	5	2	No	5	No	No	No	No	1	No	No	1	NIL	Rs10,000/-
23	Nowel Marak	2	2	4		No	4	No	No	No	No	1	No	No	1	NIL	Rs10,000/-
24	Chirson Sangma	2	3	5	No	No	5	2	No	2	2	2	No	No	4	NIL	Rs12,000/-
25	Chitto Sangma	2	2	4	No	No	4	No	No	No	No	No	No	No	No	Betel leaf Cultivation	Rs50,000/-
26	Dominik Marak	2	4	6	No	No	6	No	No	No	No	No	No	No	No	NIL	Rs15,.000/
	1			'	'											'	-

ANNEXURE III

COST ESTIMATES

ACTIVITIES FOR CONVERGENCE OF IWMP WITH NREGA SCHEMES UNDER UMTYRNGA, UMLING BLOCK.

SI.								al Target	
No	Name of Activities	Name of Beneficiaries	Materials Estimate	Estimate 60 %	Physical Implication	Financial Implication			
1	2	3		5		6			
1	Development of Water Bodies	Shri. Moren Suring	-	3,25,570 1 No		3,25,570			
2	- do -	Smti. Tngen Lynshing	-	3,25,570	3,25,570 ¹ No				
3	- do -	Community	-	5,31,737	1 No	5,31,737			
		Total of A		11,82,877		11,82,877			
1	Water Harvesting structure	Community	1,83,064	2,74,596	1 No	4,57,660			
2	- do -	- do -	1,43,272	2,14,908	1 No	3,58,180			
3	- do -	- do -	1,24,240	1,86,360	1 No	3,10,600			
4	- do -	- do -	1,15,060	1,72,590	1 No	2,87,650			
	·	Total of B	5,65,636	8,48,454		14,14,090			
1	Minor Irrigation works	Community	55,208	82,812	1 No	1,38,020			
2	- do -	- do -	55,208	82,812	1 No	1,38,020			
3	- do -	- do -	55,208	82,812	1 No	1,38,020			
		Total of C	1,65,624	2,48,436	10 Nos	4,14,060			
		Grant Total	12,04,411	18,06,616		30,11,027			

Rupees (Thirty Lakhs Eleven Thousand and Twenty seven) only.

ACTIVITIES FOR CONVERGENCE OF IWMP WITH NREGA SCHEMES UNDER NAGRABIL, UMLING BLOCK

					Total '	Target
Sl. No	Name of Activities	Name of Beneficiaries	Materials Estimate	Labour Estimate	Physical Implication	Financial Implication
1	2	3	4	5		6
1	Water Harvesting structure	Community	52,834	79,250	1 No.	1,32,084
2	- do -	- do -	52,834	79,250	1 No	1,32,084
	Total		1,05,668	1,58,500	2 Nos	2,64,168

Rupees (Two Lakhs Sixty four Thousand One hundred sixty eight) only

ACTIVITIES OF CONVERGENCE OF IWMP NREGA SCHEMES UNDER CHIBRA, UMLING BLOCK

					Total '	Target
Sl. No	Name of Activities	Name of Beneficiaries	Materials Estimate	Labour Estimate	Physical Implication	Financial Implication
1	2	3	4	5		6
1	Water Harvesting structure	Community	52,834	79,250	1 No.	1,32,084
2	- do -	- do -	1,15,060	1,72,590	1 No	2,87,650
	Total		1,67,894	2,51,840	2 Nos	4,19,734

Rupees (Four Lakhs Nineteen Thousand Seven Hundred and Thirty four) only.

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

Spacing - 8m x 6.3m

Plant Density - 200 Nos.

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

(Rupees Eight thousand six hundred) only.

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

Spacing 6m x 5.5m

Plant Density – 300 Nos.

B.	Preliminary	works

J.	Jungle clearance etc. 5 mandays @ Rs.100/- per manday		-	Rs. 500.00
II.	Pit digging (pit size 0.30m x 0.30m x 0.30n 300 Nos. @ Rs.4/- each	n) Total	-	<u>Rs. 1200.00</u> Rs. 1700.00
B.	First year Planting			
I.	Cost of planting materials 300 Nos. @ Rs.8/- each		-	Rs. 2400.00
II.	Cost of planting 300 Nos. @ Rs. 2/- each		-	Rs. 600.00
III.	Weeding two times 20 mandays @ Rs.100/- per manday		-	Rs. 2000.00
IV.	Fire protection measures 5 mandays @ Rs.100/- per manday	Total	-	<u>Rs. 500.00</u> Rs. 5500.00
C.	Second year Planting			
I.	Vacancy refilling (10%)		-	Rs. 400.00
II.	Weeding two times 20 mandays @ Rs.100/- per manday		-	Rs. 2000.00

III. Fire protection measures

5 mandays @ Rs.100/- per manday		-	<u>Rs. 500.00</u>
	Total	-	Rs. 2900.00
Grand Total $A+B+C = Rs.1700.00 + Rs.55$	500.00 + Rs.2900.00 =	=	Rs.10100.00

(Rupees Ten thousand one hundred) only.

ESTIMATE FOR CONSTRUCTION OF CONSERVATION POND (The rate based as per P.W.D. Schedule of rates for Roads, Bridges and E & D works 2008 – 2009).

1/3 (d)Earthwork in excavation to the proper grade 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. $(150.00 \ge 25.00) + 4 (148.80 \ge 23.80) + (147.6.00 \ge 22.60) \ge \frac{1.20}{6}$
@ Rs. 63.00/m³= 4250m³
Rs.2,67,768.392/3 (i)Extra in excavation in through cutting over 150cm height at the
lowest point.= 4250m³
Rs.2,67,768.39

Item No. 1/3 (d) = 4250m^3 @ Rs. 13.00/ m³ Rs. 55,250

3/14 (ii) Cutting roadside drain including dressing, grading 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.

1 x 88 = 88 Rm

@ Rs. 29.00/ m^3

 Rs. 2552

 Total
 Rs. 3,25,570.39/

 Say
 Rs. 3,25,570 /

(Rupees three lakh twenty five thousand five hundred and seventy) only

ESTIMATE FOR CONSTRUCTION OF CONSERVATION POND (The rate based as per P.W.D. Schedule of rates for Roads, Bridges and E & D works 2008 – 2009).

1/3 (d) Earthwork in excavation to the proper grade 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.

 $\begin{array}{cccc} (100.00 \ \text{x} \ 60.00) + 4 \ (98.80 \ \text{x} \ 58.80) + (97.60 \ \text{x} \ 57.60) \ \text{x} \ \underline{1.20} \\ & 6 \\ & 6 \end{array} = 6971 \text{m}^3 \\ \hline \text{Rs.} \ 63.00/\text{m}^3 \\ \hline \text{Rs.} \ 4,39,229.95 \end{array}$

2/3 (i) Extra in excavation in through cutting over 150cm height at the lowest point.

Item No. 1/3 (d) = 6971m^3 @ Rs. 13.00/m³ Rs. 90,623

3/14 (ii) Cutting roadside drain including dressing, grading 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.

(Rupees five lakh sixty thirty one thousand seven hundred and thirty seven) only

ESTIMATE FOR CONSTRUCTION OF DRINKING WELL WITH WASHING PLACE AND FOOTPATH UNDER IWMP & MNREGA (CONVERGENCE OF SCHEMES)

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

1/5 Earth work in excavation for foundation for abutment and wing walls of bridges and culverts up to the founding level including dewatering, bailing out of water in order to keep the foundation by adequate sharing scaffolding. The foundation is leveled both longitudinally and transversely as directed.

D/well

 $1 x 3.00 x 2.50 x 1.50 = 11.25m^{3}$ $2 x 3.00 x 0.45 x 0.50 = 1.35m^{3}$ $2 x 1.60 x 0.45 x 0.50 = 0.72m^{3}$ $13.32m^{3}$ @ Rs. 121.00/m^{3} Rs. 1611.72

2/6(a) Earth work in excavation for foundation of Hume Pipe Culvert, Slab drain, retaining wall face wall up to the desired founding level including dewatering bailing out of water in order to keep the foundation by adequate shoring scaffolding. The foundation is leveled both longitudinally and transversely as directed.

W/P-F/P- $1 \ge 2.20 \ge 3.50 \ 0.30 = 2.31 \ \text{m}^3$ $2 \ge 120.00 \ge 2.00 \ 0.15 = 36.00 \ \text{m}^3$ @ Rs. 93.00/m³ Rs. 3562.83

3/20 Providing regular stone masonry work in returning walls breast walls and wing walls with hammer dressed or blunt chisel dressed stones of heavy section (size not less than 25 cm x 30 cm), with proper key stones each not less than 25 cm x 25 cm, in cement

mortar 1:6 including carriage of stone within 200m and filling in trenches and providing weep holes at 1.2 to 1.5m apart (staggered), complete as directed.

D/well-

$$1 \times 3.00 \times 0.45 \times 2.40 = 3.240 \text{m}^3$$

 $2 \times 1.60 \times 0.45 \times (2.40 + 3.00 / 2) = 3.888 \text{m}^3$
 $1 \times 3.00 \times 0.45 \times 3.00 = 4.050 \text{m}^3$
 11.178m^3
@ Rs. 1060.00 /m³ Rs. 11848.68

4/24 Providing stone pitching with one man size boulders not less than 25cm x 25cm 30 cm, including filling the interstices with spoils and carriage of stones within a distance of 200m complete as directed.

W/P	-	1 x 2.20 x 3.50 x 0.30	=	$2.31m^{3}$	
F/P	-	2 x 1.20.00 x 1.00 x 0.30	=	2.00 m^3	
				$74.31m^{3}$	
				@ Rs. $512.00/m^3$	Rs. 38046.72

5/41 Providing shuttering with dressed planks not less than 25 mm thick properly joined including battens, props to the proper level and removing of same after the concrete hardened complete as directed.

D/wall -	$1 \times 2.45 \times 2.10 = 5.145 \text{m}^2$	
	$2 \times 3.20 \times 0.10 = 0.640 \text{m}^2$	
	$2 \times 2.70 \times 0.10 = 0.540 \text{m}^2$	
W/P-	$2 \times 2.20 \times 0.10 = 0.440 \text{m}^2$	
	$2 \times 3.50 \times 0.10 = 0.700 \text{m}^2$	
F/P	$2 \times 120.00 \times 0.20 = 48.00 \text{m}^2$	
	$2 \times 1.00 \times 0.20 = 55.865 \text{m}^2$	
	55.865m ²	
	@ Rs. $295.00/m^2$	Rs.16480.17

6/42 Supplying, fitting fixing including bending cranking and placing in position as per approved

(ba) designed and drawings. D/wall - 1 x 17 x 3.00 x 0.39 = 19..890 kgs Slab - 1 x 21 x 2.50 x 0.39 = 20.475 kgs 40.365 kgs or 0.4036 Qtls @ Rs.5174.00/Qtls,

7/28 Providing cement concrete work in proportion 1:3:6 with hard broken stone aggregates 40mm downgraded, including necessary carriage of stone and sand within a distance of 200m and curing, complete as directed. (excluding shuttering).

Rs. 2088.22

D/well Slab - 1 x 3.20 x 2.70 x 0.10 = $0.864m^3$ W/Place - 1 x 2.20 3.50 x 0.075 = $0.577m^3$ F/P - 2 x 120.00 x 1.00 x 0.075 = $18.00m^3$ 19.441m³ @ Rs. 2344.00/m³ Rs. 45569.70

8/26 Providing 12mm thick cement plastering including cleaning surface, curing carriage of sand within 200m completion Abutments, well piers Retaining walls and wing walls).

within 200m complete (No. Plastering is to be done

Proportion 1:3

D/well Slab	-	1 x 3.00 x 1.00	=	$3.00m^2$	
Extension W	all -	1 x 3.00 x 0.40	=	$1.20m^2$	
2 x 2	2.50 x	(1 x 3.00 x 0.40)	=	$3.50m^2$	
Int.Wall	-	1 x 2.10 x 1.20	=	$2.52m^2$	
	1 x	$1.60 \times (1.40 + 1.95)/2$	=	$5.36m^2$	
Slab	-	1 x 2.45 x 2.10	=	$5.14m^2$	
		1 x 3.20 x 2.70	=	$8.64m^2$	
		2 x 3.20 x 0.10	=	$0.64m^2$	
		2 x 2.70 x 0.10	=	$0.54m^2$	
W/Place	-	1 x 2.20 x 3.50		$7.70m^2$	
		2 x 2.20 x 0.10		$0.44m^2$	
		2 x 3.50 x 0.10		$0.70m^2$	
F/P	-	4 x 120.00 x 0.20		$96.00m^2$	
		4 x 1.00 x 0.20		$0.80m^2$	
				139.96m ²	
				@ Rs. $92.00/m^2$	
				TOTAL	<u>Rs.1,28,76.32</u>
					Rs.1,32,084.36
				Say Rs. 1,32,084.00	

(Rupees One lakh two thousand & eighty) only.

ESTIMATE FOR CONSTRUCTION OF WATER HARVESTING STRUCTURE CUM FOOTBRIDGE UNDER IWMP & MNREGA (CONVERGENCE OF SCHEMES)

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

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

> Dam 1 x 30.00 x 1.90 x 0.65 = 37.05 m^3 @ Rs.152.00/m³

2/6 Earthwork in excavation for foundation of Hume Pipe Culvert, Slab drain, Retaining wall face well up to the desired founding level including dewatering bailing out of water in order to keep the foundation by adequate shoring scaffolding. The foundation is leveled both longitudinally and transversely as directed.

> $2 \times 3.00 \times 0.90 \times 0.65 = 3.51 \text{ m}^{3}$ W/wall Apron 1 x 17.90 x 0.30 x 0.20 = $\frac{1.07 \text{ m}^{3}}{4.58 \text{ m}^{3}}$ @ Rs.93.00/m³

3/26 Providing cement concrete work in proportion 1:4:8 with hard broken stone aggregates 40mm down graded, including necessary carriage of stone and sand within a distance of 200m and curing, complete as directed.

Dam	1 x 30.00 x 1.90 x 0.10	=	5.70 m ³
W/walls	2 x 3.00 x 0.90 x 0.10	=	<u>0.54 m³</u>
			6.24 m ³
		@ R	s.2136.00/m ³

Rs. 13328.64

Rs. 425.94

Rs. 5631.60

- Supplying, fitting, fixing including bending cranking and 4/42
- placing in position as per approved design and drawings (b) including supplying of tying wire 20 gauge complete as directed. Tor steel

1 x 86 x 2.65 x 0.89 202.83 kgs = 1 x 86 x 2.60 x 0.89 199.00 kgs = 2 x 23 x 0.90 x 0.89 36.85 kgs = 34.80 kgs 2 x 23 x 0.85 x 0.89 = 265.85 kgs 1 x 16 x 26.80 x 0.62 = 1 x 16 x 12.50 x 0.62 = 124.00 kgs 2 x 6 x 10.80 x 0.62 80.35 kgs = 1 x 7 x 14.35 x 0.62 62.30 kgs = 1 x 94 x 1.00 x 0.39 36.66 kgs = 2 x 16x 4 x1.50 x 0.62 119.04 kgs = 2 x 8 x 3.20 x 0.62 31.74 kgs = 2 x 12 x 2.75 x 0.62 = 40.92 kgs 1234.34 kgs or 12.3434 Qtls @ Rs.5174.00/Qtl Rs. 63864.75 Mild Steel (a) $2 \times 16 \times 10 \times 0.50 \times 0.22 = 35.20 \text{ kgs or } 0.352 \text{ Qtls.}$ @ Rs.4974.00/Qtl Rs. 1750.84 Providing shuttering with dressed planks not less than 5/41 25mm thick properly joined including battens, props to the (a) proper level and removing the same after the concrete hardened. 1 x 30.00 x 2.35 70.50 m^2 Dam = 12.80 m^2 F/board 2 x 8.00 x 0.80 = 4.70 m^2 G/wall $4 \times (2.00 + 2.70)/2 \times 0.50 =$ 2 x 0.50 x 0.30 0.30 m^2 = 2 x 16.00 x 0.60 x 1.30 24.96 m^2 Colm = Slab 1 x 1.00 x 14.00 14.00 m^2 =

> 2.80 m² 130.06 m² @ Rs.295.00/m²

=

Providing cement concrete work in proportion 1:2:4 6/29 corresponding to M150 with hard broken stone aggregates 20mm down graded, including necessary carriage of stone

2 x 14.00 x 0.10

Rs. 38367.70

	and sand within a distance of 20		
	1 x 30.00 x 1.90 x 0.20	=	11.40 m ³
Dam			
	1 x 30.00 x 2.35 x 0.30	=	21.15 m ³
	2 x 8.00 x 0.80 x 0.30	=	0101111
G/wall	2 x (2.00+2.70)/2 x 0.50 x 0.30	=	0.71 m ³
Slab	1 x 14.00 x 1.00 x 0.10	=	1.40 m ³
Colm	2 x 16 x 1.30 x 0.15 x 0.15	=	<u>0.94 m³</u>
			39.44 m ³
			@ Rs.2880.00/m ³

Rs. 113587.20

7/20	Providing regular stone masonry work in returning walls,
	breast walls and wing walls with hammer dressed or blunt
	chisel dressed stones of heavy section with proper key
	stones each not less than 25cm X 25cm X 75cm, in cement
	mortar 1:6 including carriage of stone within 200m

Dam	1 x 30.00 x 1.40 x 0.35	= 14.70 m ³
	1 x 30.00 x (0.70+1.40)/2 x	$= 63.00 \text{ m}^3$
	2.00	
	2 x 8.00 x 0.70 x 0.80	= 8.96 m ³
Apron	1 x 17.90 x 0.30 x 0.45	= 2.42 m ³
W/walls	2 x 3.00 x 0.90 x 0.55	= 2.97 m ³
	2 x 3.00 x (0.50+0.90)/2 x	$= 9.66 \text{m}^3$
	2.30	101.71 m ³
		@ Rs.1060.00/m ³

akan stana

8/28 Providing C.C. work in prop 1:3:6 with hard broken stone aggregates 40mm down graded in abutment curing and return walls, including necessary carriage of stone and sand within a distance of 200m etc.

Apron 1 x 14.00 x 1.70 x 0.10 = 2.38 m^3 @ Rs.2344.00/m³

9/25 Providing boulder or stone filling with unsized stone of one man size of 60cm with behind the apartment wing retaining walls etc.

Apron 1 x 14.00 x 1.70 x 0.25 = 5.95 m^3 @ Rs.322.00/m³

10/1.1 PHE Schedule 50mm

Supplying including carriage within 8 km and laying in trenches including fitting, fixing G.I pipe complete with G.I fillings such as socket bend, Elbow cross, union socket, threaded nipple, reducing socket, reducing tees including cutting, treading etc. with all jointing materials complete as directed excluding trenching and refilling of earth which will be paid extra as applicable as per current schedule of rate. The fillings will be paid extra except sockets joints.

$$2 \times 30.00 \times 4 = 240.00 \text{ Rm}$$

@ Rs.326.27.00/m³

11/27 Providing 12mm thick cement plastering including cleaning

Rs. 78304.80

Rs. 107812.60

Rs. 5578.72

Rs. 1915.90

(b) surface, curing and carriage of sand	within 200m complete.
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Dam	1 x 30.00 x 2.00	$= 60.00 \text{ m}^2$	
	1 x 30.00 x 2.12	$= 63.60 \text{ m}^2$	
S/way	2 x 14.00 x 1.00	= 28.00 m ²	
F/board	4 x 8.00 x 0.80	$= 25.60 \text{ m}^2$	
	2 x 1.00 x 0.80	= 1.60 m ²	
	1 x 30.00 x 1.00	= 30.00 m ²	
	2 x 31.00 x 0.10	$= 6.20 \text{ m}^2$	
G/wall	4 x (2.00+2.70)/2 x 0.50	= 4.70 m ²	
	2 x 0.50 x 0.30	= 0.30 m ²	
Colm	2 x 16 x 0.60 x 1.30	$= 24.96 \text{ m}^2$	
	2 x 16 x 0.15 x 0.15	$= 0.72 \text{ m}^2$	
Apron	1 x 14.60 x 2.00	= 29.20 m ²	
	1 x 18.60 x 0.15	= 2.79 m ²	
W/wall	2 x 3.00 x 2.80	$= 16.80 \text{ m}^2$	
		294.47 m ²	
		@ Rs.92.00/m ²	

TOTAL: <u>Rs. 27091.24</u> Rs.457659.93

Say Rs.4,57,660.00

(Rupees Four lakhs fifty seven thousand six hundred sixty) only.

Submitted:-



ESTIMATE FOR CONSTRUCTION OF WATER HARVESTING STRUCTURE WITH WING WALL TYPE 'A' UNDER UNDER IWMP & MNREGA (CONVERGENCE OF SCHEMES)

(The Rate based from PWD Schedule of Rates for Roads, Bridges and E&D Works 2008 – 2009)

1/4 Earthwork in excavation for foundation of bridges and culvert upto the founding level including making of coffer dam, dewatering and bailing out and diverting of water, in order to keep the foundation trenches free of water and protecting the sides of foundation by adequate shoring, scaffolding, and including leveling the foundation longitudinally and transversely as directed.

Dam
$$1 \ge 32.00 \ge 1.50 \ge 0.90 = 43.20 \text{ m}^3$$

@ Rs. $152.00/\text{m}^3$ Rs. 6,566.40

2/6 Earthwork in excavation for foundation of Hume Pipe culvert, slab drain, retaining wall, face wall up to the desired founding level, including dewatering and bailing out of water in order to keep the foundation dry, protecting the sides of foundation by adequate shoring scaffolding. The foundation is leveled both longitudinally and transversely as directed.

W/Wall
$$2 \times 3.80 \times 0.90 \times 0.80 = 5.472 \text{ m}^3$$

Apron $1 \times 14.60 \times 0.30 \times 0.20 = 0.876 \text{ m}^3$
 $= 6.348 \text{ m}^3$
@ Rs. 93.00/m³

Rs. 590.36

3/26 Providing cement concrete work in proportion 1:4:8 with hard broken aggregates 40mm down graded including necessary carriage of stone and sand within a distance 200mm and curing complete.

Dam 1 x 32.00 x 1.50 x
$$0.10 = 4.800 \text{ m}^3$$

W/Wall 2 x 3.80 x 0.90 x $0.10 = 0.684 \text{ m}^3$

 $= 5.484 \text{ m}^3$ @ Rs. 2136.00/m³ Rs. 11,713.82

Supplying fitting and fixing including bending, cranking and 4/42 (b) placing in position as per approved designed drawing, including supplying of tying wire 20 gauge complete as directed. $2 \times 74 \times 3.35 \times 0.89 = 441.26$ Kgs $1 \times 67 \times 3.35 \times 0.89 = 199.76 \text{ Kgs}$ $1 \ge 20 \ge 19.00 \ge 0.62 = 235.60 \text{ Kgs}$ $1 \ge 20 \ge 14.00 \ge 0.62 = 173.60$ Kgs $2 \times 3 \times 11.00 \times 0.62 = 40.92 \text{ Kgs}$ $2 \times 9 \times 3.15 \times 0.62 = 35.15 \text{ Kgs}$ Extra $2 \times 13 \times 2.90 \times 0.62 = 46.75 \text{ Kgs}$ = 1173.04 Kgs or 11.7304 Kgs @ Rs. 5174.00/Olt. Rs. 60,693.08 5/41 Providing shuttering with dressed planks not less than 25mm thick properly joined including battens, props to the proper level and removing of same after the concrete hardened complete as directed. $1 \times 32.00 \times 2.70 = 86.40 \text{ m}^2$ Dam F/Board $2 \times 11.00 \times 0.40 = 8.80 \text{ m}^2$ $4 \times 4.42 \times 0.50 = 8.84 \text{ m}^2$ G/Wall $2 \times 0.50 \times 0.30 = 0.30 \text{ m}^2$ $= 104.34 \text{ m}^2$ @ Rs. 295.00/m² 30,780.30 Rs. 6/29 Providing cement concrete work in proportion 1:2:4 corresponding to M150 stone aggregates 20mm down graded including curing and necessary carriage of stone and sand within a distance of 200m complete as directed. $1 \times 32.00 \times 1.50 \times 0.10 = 4.80 \text{ m}^3$ Dam $1 \times 32.00 \times 2.70 \times 0.30 = 25.92 \text{ m}^3$

F/Board
$$2 \times 11.00 \times 0.40 \times 0.30 = 2.64 \text{ m}^3$$

G/Wall $2 \times 4.42 \times 0.50 \times 0.30 = 1.33 \text{ m}^3$
 $= 34.69 \text{ m}^3$ Rs. 99,907.20
7/20 Providing regular stone masonry work in returning walls,
breast walls and wing walls with hammer dressed or blunt
chisel dressed stones of heavy section (size not less than 25cm
 $\times 25cm \times 30cm$), with proper key stones each not less than
 $25cm \times 25cm \times 75cm$, in cement mortar 1:6 including carriage
of stone within 200m and filling in trenches and providing
weep holes at 1.2 to 1.5m apart (staggered), complete as
directed.
Dam $1 \times 32.00 \times 0.30 \times 0.70 = 22.40 \text{ m}^3$
 $1 \times 32.00 \times 0.30 \times 0.40 = 2.64 \text{ m}^3$
W/Wall $2 \times 3.80 \times 0.90 \times 0.70 = 4.79 \text{ m}^3$
 $2 \times 3.80 \times 0.90 \times 0.70 = 4.79 \text{ m}^3$
 $2 \times 3.80 \times 0.90 \times 0.70 = 4.79 \text{ m}^3$
 $2 \times 3.80 \times 0.90 \times 0.45 = 1.97 \text{ m}^3$
 $8/25$ Providing boulders or stone filling with unsized stone of one
man size of 60 cm with behind the abutments, wing walls,
retaining walls, etc. within 200m complete.
Apron $1 \times 10.00 \times 2.00 \times 0.25 = 5.00 \text{ m}^3$
 $(2 \text{ Rs. } 322.00/\text{ m}^3 \text{ Rs. } 1,610.00$
9/27 Providing 12mm thick cement plastering including cleaning
surface, curing, carriage of sand within 200m complete.
Dam $1 \times 32.00 \times 2.12 = 67.84 \text{ m}^2$
 $1 \times 32.00 \times 2.12 = 67.84 \text{ m}^2$
 $1 \times 32.00 \times 0.40 = 17.60 \text{ m}^2$
	$2 \times 0.60 \times 0.40 = 0.48 \text{ m}^2$
G/Wall	$4 \times 4.42 \times 1.30 = 22.98 \text{ m}^2$
	$2 \times 0.50 \times 0.30 = 0.30 \text{ m}^2$
Apron	$1 \ge 10.60 \ge 2.30 = 24.38 \text{ m}^2$
	$1 \ge 15.20 \ge 0.20 = 3.04 \text{ m}^2$
W/Wall	2 x $3.80 \text{ x} 2.90 = 22.04 \text{ m}^2$
	$= 241.86 \text{ m}^2$
	@ Rs. $92.00/m^2$

Rs. 22,251.12

10/14 Cutting roadside drain including dressing, grading and removal of spoils up to 15.00 m completed as directed

2 x 33.60 = 67.20 Rm @ Rs. 29.00/Rm

Rs. 1,948.80

Total Rs 3,58,181.58

Say Rs.3,58,180.00

(Rupees Three Lakhs Fifty Eight Thousand One Hundred Eighty) only.

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ESTIMATE FOR CONSTRUCTION OF R.C.C. WATER HARVESTING STRUCTURE WITH WING WALL UNDER IWMP & MNREGA (CONVERGENCE OF SCHEMES)

(The Rate based from PWD Schedule of Rates for Roads, Bridges and E&D Works 2008 – 2009)

1/4 Earthwork in excavation for foundation of bridges and culvert upto the founding level including making of coffer dam, dewatering and bailing out and diverting of water, in order to keep the foundation trenches free of water and protecting the sides of foundation by adequate shoring, scaffolding, and including leveling the foundation longitudinally and transversely as directed.

Dam
$$1 \ge 29.60 \ge 1.50 \ge 0.90 = 39.96 \text{ m}^3$$

@ Rs. $152.00/\text{m}^3\text{Rs.} = 6,073.92$

2/6 Earthwork in excavation for foundation of Hume Pipe culvert, slab drain, retaining wall, face wall up to the desired founding level, including dewatering and bailing out of water in order to keep the foundation dry, protecting the sides of foundation by adequate shoring scaffolding. The foundation is leveled both longitudinally and transversely as directed.

W/Wall 2 x
$$3.50 \times 0.90 \times 0.80 = 5.04 \text{ m}^3$$

Apron 2 x 14.60 x $0.30 \times 0.20 = 0.88 \text{ m}^3$
 $= 5.92 \text{ m}^3$
@ Rs. 93.00/m³

Rs. 550.56

3/26 Providing cement concrete work in proportion 1:4:8 with hard broken aggregates 40mm down graded including necessary carriage of stone and sand within a distance 200mm and curing complete.

Dam
$$1 \ge 29.60 \ge 1.50 \ge 0.10 = 4.44 \ \text{m}^3$$

W/Wall $2 \ge 3.50 \ge 0.90 \ge 0.10 = 0.63 \ \text{m}^3$
 $= 50.70 \ \text{m}^3 @ \text{Rs. } 2136.00/\text{m}^3$ Rs. 10,829.52

4/42 (b) Supplying fitting and fixing including bending, cranking and placing in position as per approved designed drawing, including supplying of tying wire 20 gauge complete as directed.

	$2 \times 66 \times 3.35 \times 0.89 = 393.56 \text{ Kgs}$
	$1 \ge 67 \ge 3.05 \ge 0.89 = 181.87 \text{ Kgs}$
	$1 \ge 20 \ge 18.30 \ge 0.89 = 325.74 \text{ Kgs}$
	$1 \ge 20 \ge 11.80 \ge 0.89 = 210.04 \text{ Kgs}$
	$2 \times 3 \times 9.95 \times 0.62 = 37.01 \text{ Kgs}$
Extra	$2 \times 8 \times 3.05 \times 0.62 = 30.26 \text{ Kgs}$
	$2 \times 12 \times 2.85 \times 0.62 = 42.41$ Kgs
	= 1220.89 Kgs
	or 12.2089 Kgs
	@ Rs. 5174.00/Qlt.

Rs. 63,168.84

5/41 Providing shuttering with dressed planks not less than 25mm thick properly joined including battens, props to the proper level and removing of same after the concrete hardened complete as directed.

Dam 1 x 29.60 x 2.70 = 79.92 m²
F/Board 2 x 9.80 x 0.40 = 7.84 m²
G/Wall 4 x 4.42 x 0.50 = 8.84 m²
2 x 0.50 x 0.30
$$\equiv 0.30$$
 m²
= 96.90 m²
@ Rs. 295.00/m² Rs. 28,585.50

- 6/29 Providing cement concrete work in proportion 1:2:4 corresponding to M150 stone aggregates 20mm down graded including curing and necessary carriage of stone and sand within a distance of 200m complete as directed.
 - Dam $1 \ge 29.60 \ge 1.50 \ge 0.10 = 4.440 \ \text{m}^3$ $1 \ge 29.60 \ge 2.70 \ge 0.30 = 23.976 \ \text{m}^3$ F/Board $2 \ge 9.80 \ge 0.40 \ge 0.30 = 2.352 \ \text{m}^3$

G/Wall
$$2 \times 4.42 \times 0.50 \times 0.30 = 1.326 \text{ m}^3$$

= 32.094 m³
@ Rs. 2880.00/m³ Rs. 92,430.72

7/20 Providing regular stone masonry work in returning walls, breast walls and wing walls with hammer dressed or blunt chisel dressed stones of heavy section (size not less than 25cm x 25cm x 30cm), with proper key stones each not less than 25cm x 25cm x 75cm, in cement mortar 1:6 including carriage of stone within 200m and filling in trenches and providing weep holes at 1.2 to 1.5m apart (staggered), complete as directed.

Dam
$$1 \ge 29.60 \ge 1.00 \ge 0.70 = 20.72 \text{ m}^{3}$$

 $1 \ge 29.60 \ge 0.30 \pm 1.00 \ge 2.00 = 38.48 \text{ m}^{3}$
F/Board $2 \ge 9.80 \ge 0.30 \ge 0.40 = 2.35 \text{ m}^{3}$
W/Wall $2 \ge 3.50 \ge 0.90 \ge 0.70 = 4.41 \text{ m}^{3}$
 $2 \ge 3.50 \ge 0.50 \pm 0.90 \ge 2.40 = 11.76 \text{ m}^{3}$
Apron $1 \ge 14.60 \ge 0.30 \ge 0.45 = 1.97 \text{ m}^{3}$
 $= 79.69 \text{ m}^{3}$
@ Rs. 1060.00/m³ Rs. 84,471.40
Providing boulders or stone filling with unsized stone of one
man size of 60 cm with behind the abutments, wing walls,
retaining walls, etc. within 200m complete.
pron - $1 \ge 10.00 \ge 2.00 \ge 0.25 = 5.00 \text{ m}^{3}$

Apron -
$$1 \ge 10.00 \ge 2.00 \ge 0.25 = 5.00 \ge 0.25$$

8/25

@ Rs. $322.00/m^3$

1,610.00

Rs.

9/27 Providing 12mm thick cement plastering including cleaning surface, curing, carriage of sand within 200m complete.

 $1 \ge 29.60 \ge 2.00 = 59.20 \text{ m}^2$ Dam $1 \ge 29.60 \ge 2.12 = 62.75 \ \text{m}^2$ $4 \times 9.80 \times 0.40 = 15.68 \text{ m}^2$ F/Board

	$2 \times 0.60 \times 0.40 = 0.48 \text{ m}^2$
G/Wall	$4 \times 4.42 \times 1.30 = 22.98 \text{ m}^2$
	$2 \times 0.50 \times 0.30 = 0.30 \text{ m}^2$
Apron	$1 \ge 10.60 \ge 2.30 = 24.38 \text{ m}^2$
W/Wall	
	$= 226.87 \text{ m}^2$
	@ Rs. $92.00/m^2$
Apron	$2 \times 0.50 \times 0.30 = 0.30 \text{ m}^2$

Rs. 20,872.04

10/14 Cutting roadside drain including dressing, grading and removal of spoils up to 15.00 m completed as directed

2 x 34.60 = 69.20 Rm @ Rs. 29.00/Rm

D/Rm <u>Rs. 2,006.80</u>

Total Rs 3,10,599.30

Say Rs. 3,10,600.00

(Rupees Three Lakhs Ten Thousand Six Hundred) only.

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ESTIMATE FOR CONSTRUCTION OF WATER HARVESTING STRUCTURE WITH WING WALL TYPE 'C' UNDER IWMP & MNREGA (CONVERGENCE OF SCHEMES)

(The Rate based from PWD Schedule of Rates for Roads, Bridges and E&D Works 2008 – 2009)

1/4 Earthwork in excavation for foundation of bridges and culvert upto the founding level including making of coffer dam, dewatering and bailing out and diverting of water, in order to keep the foundation trenches free of water and protecting the sides of foundation by adequate shoring, scaffolding, and including leveling the foundation longitudinally and transversely as directed.

Dam
$$1 \ge 28.00 \ge 1.50 \ge 0.90 = 37.80 \text{ m}^3$$

@ Rs. $152.00/\text{m}^3$ Rs. $5,745.60$

2/6 Earthwork in excavation for foundation of Hume Pipe culvert, slab drain, retaining wall, face wall up to the desired founding level, including dewatering and bailing out of water in order to keep the foundation dry, protecting the sides of foundation by adequate shoring scaffolding. The foundation is leveled both longitudinally and transversely as directed.

W/Wall 2 x
$$3.50 \times 0.90 \times 0.80 = 5.04 \text{ m}^3$$

Apron 1 x 14.60 x $0.30 \times 0.20 = 0.88 \text{ m}^3$
 $= 5.92 \text{ m}^3$
@ Rs. 93.00/m³

Rs. 550.56

3/26 Providing cement concrete work in proportion 1:4:8 with hard broken aggregates 40mm down graded including necessary carriage of stone and sand within a distance 200mm and curing complete.

Dam 1 x 28.00 x 1.50 x 0.10 = 4.20 m³
W/Wall 2 x 3.50 x 0.90 x 0.10
$$= 0.63$$
 m³
= 4.83 m³@ Rs. 2136.00/m³ Rs. 10,316.88

4/42 (b) Supplying fitting and fixing including bending, cranking and placing in position as per approved designed drawing, including supplying of tying wire 20 gauge complete as directed.

	$2 \ge 61 \ge 3.35 \ge 0.89 = 363.74 \text{ Kgs}$
	$1 \ge 67 \ge 3.05 \ge 0.89 = 181.87 \text{ Kgs}$
	$1 \ge 20 \ge 15.20 \ge 0.62 = 188.48 \text{ Kgs}$
	$1 \ge 20 \ge 13.40 \ge 0.62 = 166.16 \text{ Kgs}$
	$2 \times 3 \times 9.00 \times 0.62 = 33.48 \text{ Kgs}$
Extra	$2 \times 8 \times 3.05 \times 0.62 = 30.26 \text{ Kgs}$
	$2 \ge 12 \ge 2.85 \ge 0.62 = 42.41 \text{ Kgs}$
	= 1006.40 Kgs
	or 10.064 Qlt.
	@ Rs. 5174.00/Qlt.

Rs. 52,071.13

5/41 Providing shuttering with dressed planks not less than 25mm thick properly joined including battens, props to the proper level and removing of same after the concrete hardened complete as directed.

Dam 1 x 28.00 x 2.70 = 75.60 m²
F/Board 2 x 9.00 x 0.40 = 7.20 m²
G/Wall 4 x 4.42 x 0.50 = 8.84 m²
2 x 0.50 x 0.30
$$= 0.30$$
 m²
= 91.94 m²
@ Rs. 295.00/m²

Rs. 27,122.30

6/29 Providing cement concrete work in proportion 1:2:4 corresponding to M150 stone aggregates 20mm down graded including curing and necessary carriage of stone and sand within a distance of 200m complete as directed.

Dam
$$1 \ge 28.00 \ge 1.50 \ge 0.10 = 4.20 \ \text{m}^3$$
 $1 \ge 28.00 \ge 2.70 \ge 0.30 = 22.68 \ \text{m}^3$ F/Board $2 \ge 9.00 \ge 0.40 \ge 0.30 = 2.16 \ \text{m}^3$ G/Wall $2 \ge 4.42 \ge 0.50 \ge 0.30 = 1.33 \ \text{m}^3$

 $= 30.37 \text{ m}^3$ @ Rs. 2880.00/m³

Rs. 87,465.60

7/20 Providing regular stone masonry work in returning walls, breast walls and wing walls with hammer dressed or blunt chisel dressed stones of heavy section (size not less than 25cm x 25cm x 30cm), with proper key stones each not less than 25cm x 25cm x 75cm, in cement mortar 1:6 including carriage of stone within 200m and filling in trenches and providing weep holes at 1.2 to 1.5m apart (staggered), complete as directed.

8/25

9/27

une	cicu.		
Γ	Dam	$1 \ge 28.00 \ge 1.00 \ge 0.70 = 19.60 \text{ m}^3$	
		$1 \ge 28.00 \ge 0.30 + 1.00 \ge 2.00 = 36.40 \text{ m}^3$	
		2	
F	/Board	$\begin{array}{rcl} 2 & x & 9.00 & x & 0.30 & x & 0.40 \\ 2 & x & 3.50 & x & 0.90 & x & 0.70 \end{array} & = & 2.16 & \text{m}^3 \\ & = & 4.41 & \text{m}^3 \end{array}$	
V	V/Wall	$2 \times 3.50 \times 0.90 \times 0.70 = 4.41 \text{ m}^3$	
		2 x $3.50 \times 0.50 + 0.90 \times 2.40 = 11.76 \text{ m}^3$	
		2	
A	Apron	$1 \times 14.60 \times 0.30 \times 0.45 = 1.97 \text{ m}^3$	
	-	$= 76.30 \text{ m}^3$	
		@ Rs. 1060.00/m ³ H	Rs. 80,878.00
Pro	viding bould	ers or stone filling with unsized stone of one	e
mai	n size of 60	cm with behind the abutments, wing walls,	,
		etc. within 200m complete.	
Apron -	0	$.00 \ge 2.00 \ge 0.25 = 5.00 \text{ m}^3$	
1		2	Rs. 1,610.00
Pro	viding 12mm	n thick cement plastering including cleaning	Ţ
	-	carriage of sand within 200m complete.	, ,
	Dam	$1 \ge 28.00 \ge 2.00 = 56.00 \text{ m}^2$	
		$1 \ge 28.00 \ge 2.12 = 59.36 \text{ m}^2$	
		$1 \times 28.00 \times 0.60 = 16.80 \text{ m}^2$	
F	/Board	$4 \times 9.00 \times 0.40 = 14.40 \text{ m}^2$	
		2	

 $2 \times 0.60 \times 0.40 = 0.48 \text{ m}^2$

G/Wall	$4 x 4.42 x 1.30 = 22.98 m^2$ $2 x 0.50 x 0.30 = 0.30 m^2$					
Apron	$1 \times 10.60 \times 2.30 = 24.38 \text{ m}^2$ $1 \times 15.20 \times 0.20 = 3.04 \text{ m}^2$					
W/Wall	$2 \times 3.50 \times 2.90 = 20.30 \text{ m}^2$ = 218.04 m ²					
4 Cutting reads:	@ Rs. 92.00/m2		· ~ 1	Rs.	20,059.68	
	de drain including dressing, grading a 15.00 m completed as directed	na remov	/ai			
	31.50 x 2 = 63.00 Rm					
Total Rs. 2,87,64	@ Rs. 29.00/Rm		<u>Rs.</u>	1,82	7.00	
10tai KS. 2,07,04	40.75	Say	Rs. 2	2,87,650	0.00	

(Rupees Two Lakhs Eighty Seven Thousand Six Hundred Fifty) only.

10/14



ESTIMATE FOR CONSTRUCTION OF DRINKING WELL WITH WASHING PLACE

AND FOOTPATH TYPE 'B' UNDER IWMP & MNREGA (CONVERGENCE OF SCHEMES)

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

1/5 (b) Earthwork in excavation for foundation for abutment and wing walls of bridges and culverts up to the founding level including dewatering, bailing out of water in order to keep the foundation by adequate sharing scaffolding. The foundation is leveled both longitudinally and transversely as directed.

$$DWell - 1 \times 3.00 \times 2.50 \times 1.50 = 11.25m^{3}$$

$$2 \times 3.00 \times 0.45 \times 0.50 = 1.35m^{3}$$

$$2 \times 1.60 \times 0.45 \times 0.50 = 0.72m^{3}$$

$$13.32m^{3}$$

@ Rs.121.00/m³

2/6 (a) Earthwork in excavation for foundation of Hume Pipe Culvert, Slab drain, Retaining wall face well up to the desired founding level including dewatering bailing out of water in order to keep the foundation by adequate shoring scaffolding. The foundation is leveled both longitudinally and transverly as directed.

W/P - 1 x 2.20 x
$$3.50 \times 0.30 = 2.31 \text{m}^3$$

F/P - 2 x 120.00 x 1.00 x $0.15 = 36.00 \text{m}^3$
 38.31m^3
@ Rs.93.00/m³

Rs. 3562.83

Rs. 1611.72

3/20 Providing regular stone masonry work in returning walls,
(a) breast walls and wing walls with hammer dressed or blunt chisel dressed stones of heavy section (size not less than 25cm X 25cm X 30cm), with proper key stones each not less than 25cm X 25cm X 75cm, in cement mortar 1:6 including carriage of stone within 200m and filling in trenches and providing weep holes at 1.2 to 1.5m apart (staggered), complete as directed.

$$2 \times 1.60 \times 0.45 \times (2.40 + 3.00) / 2 = 3.888m^{3}$$

$$1 \times 3.00 \times 0.45 \times 3.00 = 4.050m^{3}$$

$$11.178m^{3}$$

 $@ Rs.1060.00/m^3$

Rs. 11848.68

4/24 Providing stone pitching with one-man size boulders not less than $25 \text{ cm} \times 25 \text{ cm} \times 30 \text{ cm}$, including filling the interstices with spoils and carriage of stone within a distance of 200m complete as directed.

F/P - 2 x 120.00 x 1.00 x 0.30 =
$$2.3 \text{ m}^3$$

 74.31m^3
@ Rs.512.00/m³

- 5/41 Providing shuttering with dressed planks not less than
- (a) 25mm thick properly joined including battens, props to the proper level and removing of same after the concrete hardened complete as directed.

D/Wall - 1 x 2.45 x 2.10 =
$$5.145m^2$$

2 x 3.20 x 0.10 = $0.640m^2$
2 x 2.70 x 0.10 = $0.540m^2$
W/P - 2 x 2.20 x 0.10 = $0.440m^2$
2 x 3.50 x 0.10 = $0.700m^2$
F/P - 2 x120.00 x 0.20 = $48.00m^2$
2 x 1.00 x 0.20 = $0.40m^2$
55.865m²
@ Rs.295.00/m²

6/42 Supplying, fitting, fixing including, bending cranking and placing in position as per approved design and drawings. D/Well - 1 x 17 x $3.00 \times 0.39 = 19.890$ kgs Slab - 1 x 21 x $2.50 \times 0.39 = 20.475$ kgs 40.365 kgs or 0.4036 Qtls.

@ Rs.5174.00/Qtls.

7/28 Providing cement concrete work in proportion 1:3:6 with hard broken stone aggregates 40mm down graded, including necessary carriage of stone and sand within a distance of 200m and curing, complete as directed. (excluding shuttering). D/Well Slab - 1 x 3 20 x 2 70 x 0 10 = 0.864m³

W/Place
 -

$$1 \times 2.20 \times 3.50 \times 0.075 = 0.504 \text{m}^3$$

 F/P
 -
 $2 \times 120.00 \times 1.00 \times 0.075 = 18.00 \text{m}^3$

 19.441 \text{m}^3

@ Rs.2344.00/m³

Rs. 45569.70

Rs. 38046.72

Rs. 16480.17

Rs. 2088.22

Providing 12mm thick cement plastering including cleaning surface, curing carriage of sand within 200m complete (No. Plastering is to be done in Abutments, well piers, Retaining walls and Wing walls). Proportion 1:3. 8/26 (ii)

Proportion	1:3.				
D/Well	-	1 x 3.00 x 1.00 =			
Extn. Wall	-	1 x 3.00 x 0.40 =	1.20m ²		
	2 x 2.50 x	(1.00 + 0.40) / 2 =			
Int. Wall	-	1 x 2.10 x 1.20 =			
		1 x 2.10 x 1.80 =			
	2 x1.60 x	(1.40 + 1.95) / 2 =	5.36m ²		
Slab	-	1 x 2.45 x 2.10 =	5.14m ²		
		1 x 3.20 x 2.70 =	8.64m ²		
		2 x 3.20 x 0.10 =			
		2 x 2.70 x 0.10 =	0.54m ²		
W/place	-	1 x 2.20 x 3.50 =	· ·		
		2 x 2.20 x 0.10 =	0.44m ²		
		2 x 3.50 x 0.10 =			
F/P	-	4x120.00x0.20 =	96.00m ³		
		4 x 1.00 x 0.20 <u>=</u>			
		1	39.96m ²		
			@ Rs.92.00/m ²		<u>Rs. 12876.32</u>
				TOTAL:	Rs.138020.36
				Say	Rs.1,38,020.00

(Rupees One lakh thirty eight thousand & twenty) only.



ESTIMATE FOR CONSTRUCTION OF RURAL GODOWN

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

1/1.1 (b)	Earthwork in excavation in foundation trenches, including dressing of sides and ramming of the bottom including stacking of serviceable stones, disposal and removal of excavated earth within a lead of 50m and lift of 1.50m complete.					
	Colm	6 x 1.20 x 1.20 x 1.00	=	8.640 m ³		
	••••	3 x 1.00 x 1.00 x 0.85				
	Plinth	2 x 4.00 x 0.30 x 0.45		1.080 m ³		
		2 x 6.00 x 0.30 x 0.45	=	2		
		2 x 1.50 x 0.30 x 0.35	=	0.315 m ³		
		1 x 6.00 x 0.30 x 0.35	=	0.630 m ³		
		1 x 4.00 x 0.30 x 0.25	=	<u>0.300 m³</u>		
				15.135 m ³		
		(@ Rs.8	5.00/m	Rs. 1286.47	
2/2.1 (b)	(1-cemer	g and laying cement cond nt, 4-sand, 8-stone Aggre- including necessary cur g. 6 x 1.20 x 1.20 x 0.10 3 x 1.00 x 1.00 x 0.10	gate of ing co = =	63mm and down	Rs. 2736.56	
a (a .a						
3/6.2 (ii)	cutting,	tor steel reinforcement in bending, cranking and vire 20 gauge, complete u	tying	in position with		
	cutting,	bending, cranking and vire 20 gauge, complete u 6 x 20 x 1.20 x 0.89	tying pto flo =	in position with or two level. = 1.282 Qtls.		
	cutting, binding w Net	bending, cranking and vire 20 gauge, complete u 6 x 20 x 1.20 x 0.89 3 x 16 x 1.00 x 0.89	tying pto flo = =	in position with or two level. = 1.282 Qtls. = 0.427 Qtls.		
	cutting, binding w	bending, cranking and vire 20 gauge, complete u 6 x 20 x 1.20 x 0.89	tying pto flo = = =	in position with or two level. = 1.282 Qtls.		

	3 x 4 x 6.20 x 0.89	= 0.662 Qtls.	
Lintel	6 x 4 x 1.45 x 0.62	= 0.216 Qtls.	
	2 x 4 x 1.30 x 0.62	= <u>0.064 Qtls.</u>	
		5.344 Qtls.	
		@ Rs.5373.00/Qtl.	F

Rs. 28713.31

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

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

Rs. 3532.70

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

2 x 3.80 x 0.30 x 0.45	$= 1.026 \text{ m}^3$
4 x 2.80 x 0.30 x 0.45	$= 1.512 \text{ m}^3$
2 x 2.80 x 0.30 x 0.35	$= 0.588 \text{ m}^3$
2 x 1.30 x 0.30 x 0.35	$= 0.273 \text{ m}^3$
1 x 4.00 x 0.30 x 0.35	$= 0.420 \text{ m}^{3}$
	3.819 m ³
	@ Rs.1833.00/m ³

Rs. 7000.22

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

directed.

7/2.4 (i) (b)

	Colm P/Beam	6 x 4 x 0.20 x 3.10 3 x 4 x 0.20 x 0.50 3 x 4 x 0.15 x 2.90 2 x 2 x 0.25 x 3.80 2 x 2 x 0.20 x 1.30 4 x 2 x 0.25 x 2.80	$= 6.30 m^{2}$ $= 14.88 m^{2}$ $= 1.20 m^{2}$ $= 5.22 m^{2}$ $= 3.80 m^{2}$ $= 1.04 m^{2}$ $= 5.60 m^{2}$ $= 2.24 m^{2}$	
	Lintel		$= 2.52 \text{ m}^2$	
		2 x 2 x 0.15 x 1.20	$= 0.72 \text{ m}^2$ 43.52 m ²	
			@ Rs.148.00/m ²	Rs. 6440.96
1	correspondin	d laying cement concre g to M100 includinູ ເluding shuttering.		
		6 x 1.20 x 1.20 x 0.40	$= 3.456 \text{ m}^3$	
	Colm	3 x 1.00 x 1.00 x 0.30 6 x 0.25 x 0.25 x 1.05 6 x 0.20 x 0.20 x 3.10	= 0.900 m^3 = 0.394 m^3 = 0.744 m^3	
	:	3 x 0.20 x 0.20 x 0.50	$= 0.060 \text{ m}^3$	
		3 x 0.15 x 0.15 x 2.80	$= 0.189 \mathrm{m}^3$	

		0.001111
6 x 0.20 x 0.20 x 3.10	=	0.744 m ³
3 x 0.20 x 0.20 x 0.50	=	0.060 m ³
3 x 0.15 x 0.15 x 2.80		0.189 m ³
6 x 0.15 x 0.10 x 1.40	=	0.126 m ³
2 x 0.15 x 0.10 x 1.20	=	<u>0.036 m³</u>
		5.905 m ³
	@ F	Rs.3247.00/m ³

Rs. 19173.53

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

Wall $2 \times 4.00 \times 3.10 = 24.80 \text{ m}^2$ $4 \times 3.00 \times 3.10 = 37.20 \text{ m}^2$ $2 \times 1.50 \times 1.20 = 3.60 \text{ m}^2$

Less for opening (-) D			
W	4 x 1.20 x 1.50		
	2 x 1.00 x 1.50	=	
			50.36 m ²
	(2 Rs	s.384.00/m ²

Rs. 19338.24

9/7.2 Providing undressed wood work in trusses, purlins, rafters,

(b) post plates, wall plates and the like, framed, hoisted and fixed in position with nails, spikes, nuts and bolts etc.

Beam	3 x 6.50 x 0.10 x 0.075	=	0.146 m ³
	2 x 5.90 x 0.10 x 0.075		0.088 m ³
King post	8 x 0.65 x 0.10 x 0.10	=	0.052 m ³
Struts	16 x 1.25 x 0.075 x 0.075	=	0.113 m ³
R/rafter	16 x 2.65 x 0.10 x 0.075	=	0.318 m ³
Purlin	13 x 6.30 x 0.10 x 0.075	=	<u>0.614 m³</u>
			1.331 m ³
	@	Rs.1	6636.00/m

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

$$1 \times 3.80 \times 5.80 \times 0.45 = 9.918 \text{ m}^{3}$$

$$1 \times 5.80 \times 1.30 \times 0.35 = \frac{2.639 \text{ m}^{3}}{12.557 \text{ m}^{3}}$$

@ Rs.42.00/m³

Rs. 527.39

Rs. 22142.51

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

$$1 \times 3.80 \times 5.80 = 22.04 \text{ m}^{2}$$

$$1 \times 5.80 \times 1.30 = \frac{7.54 \text{ m}^{2}}{29.58 \text{ m}^{2}}$$

@ Rs.108.00/m² Rs.

Rs. 3194.64

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

Qty. vide item No. $- 11/4.5 = 29.58 \text{ m}^2$ @ Rs.187.00/m²

Rs. 5946.60

Rs. 20007.90

Rs. 1397.42

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

$$2 \times 6.60 \times 2.65 = 34.98 \text{ m}^{2}$$

$$1 \times 6.60 \times 1.75 = \frac{11.55 \text{ m}^{2}}{46.53 \text{ m}^{2}}$$

@ Rs.430.00/m²

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

Door $4 \times 2.10 \times 0.10 \times 0.075 = 0.063 \text{ m}^3$ $2 \times 1.40 \times 0.10 \times 0.075 = 0.021 \text{ m}^3$ 0.084 m^3 . @ Rs.16636.00/m³

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

$$4 \times 1.20 \times 1.50 = 7.20 \text{ m}^2$$

$$1 \times 1.00 \times 1.50 = 3.00 \text{ m}^2$$

-

$$\begin{array}{rcl} 10.20 \text{ m}^2 \\ @ \text{ Rs.975.00/m}^2 \\ @ \text{ Rs.975.00/m}^2 \\ @ \text{ Rs. 308.00/m}^2 \\ @ \text{ Rs. 456.00} \\ \end{array}$$

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

Door
$$2 \times 1.20 \times 2.10 \times 2.60 = 13.104 \text{ m}^2$$

 23.104 m^2
(P Rs. 18.00/m²) Rs. 667.87
Window $4 \times 1.20 \times 1.50 \times \frac{2}{7_3} = 4.80 \text{ m}^2$
 $2 \times 1.00 \times 1.50 \times \frac{2}{7_3} = \frac{2.00 \text{ m}^2}{6.80 \text{ m}^2}$
(P Rs. 17.00/m²) Rs. 115.60
20/10.12 Painting with best quality synthetic enamel with
approved make and brand including smoothening the
surface by sand papering etc. & using approved putty
on the surface, if necessary, complete as directed.
Door $2 \times 1.20 \times 2.10 \times 2.60 = 13.104 \text{ m}^2$
Window $4 \times 1.20 \times 1.50 \times \frac{2}{7_3} = 4.800 \text{ m}^2$
 $2 \times 1.00 \times 1.50 \times \frac{2}{7_3} = 2.000 \text{ m}^2$
 $2 \times 1.00 \times 1.50 \times \frac{2}{7_3} = 2.000 \text{ m}^2$
Ceiling $1 \times 6.00 \times 4.00 = 224.000 \text{ m}^2$
(P Rs.77.00/m²) Rs. 3380.60
21/10.7 Distempering with dry distemper 2 (two) coats of required
shade to give an even shade to new works including
priming coat etc.
Walling vide item No. $8/3.9 = 50.36 \text{ m}^2$
 $50.36 \times 2 = 100.72 \text{ m}^2$
(P Rs.33.00/m²) Rs. 3323.76
22/10.14 Roof painting with red/green paint including brushing with
(b) wire brush and cleaning complete as directed.
Qty. vide item No. 13/5.9 = 46.53 \times 11/2 = 67.795 \text{ m}^2
(P Rs.67.00/m²) Rs. 4676.26
23/13.15 Providing drain (open surface) with bed and wall
thickness of 100mm finished with cement plaster 1:3 (1)

150mm x 150mm.

 $\begin{array}{rrrr} 1 \ x \ 26.15 \ = \ 26.15 \ \text{Rm} \\ 1 \ x \ 24.40 \ = \ \underline{24.40 \ \text{Rm}} \\ 50.55 \ \text{Rm} \end{array}$

@ Rs.216.00/Rm TOTAL : <u>Rs. 10918.8</u> Rs.200002.69

Say Rs.2,00,000.00

(Rupees Two lakhs) only.

Submit:

ESTIMATE FOR CONSTRUCTION OF BETTLENUT PROCESSING UNIT NU SHDIV

	WITH A LOCATION AT OF (IWMP) SCHEME	UNDER SOIL AND WATER CONSERVATION DIVISION: NONGPOH.
OF SHRIVSIM II.	WITH A LOCATION	UNDER SOIL AN

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(Estimate has been framed as per the P W.D schedule of Rate for Building for the year 2007-08)

tem rout:1.1.1 Earthwork in excavation of foundation upto desire founding level and removal of spoils upto 30 m lead and al life.

23134.69
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per m3
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them no3:4.5 Providing 100mm stone soling in floor or plinth above the ground complete as directed $1 \times 5.00 \times 2.00 = 10.00 - 22$

1080.00 5 00 108 00 per m2 . . . S L S

Providing cement concrete floor 65mm thick in proportion 1:3/6 (1 cement , 3 sand and 6 stone Item no4/4.7

10.00 aggregates) to the proper level and slopes including ramming and curing complete ⊒ 00 \times 600 × -

СI Е

6 6 6 6 6 6

4.20 3.00

11

F

1.50 = 1.50 =

××

complete as directed

ttem no 5/39. Providing 1st class brick work in required thickness. . 2 × 2,00 × 0.20 2 × 5,00 × 0.20

1870.00

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187.00 per m2.....

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62 E E E

15.00

1.50 = 1.50 =

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2.00

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Item no.6/4.1 Providing 12 mm thick cement plastering.

INSIDE

3072 00 per m2.

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complete as directed. 1.50 = 6.00

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12902

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3 71 24 71	2644.24
1 65 ⊪ ⊪	5 公 1
×	-
13 12 12 12 12 12 12 12 12 12 12 12 12 12	
×	-
F	107 00 per m2
OUT SIDE	52 Ø

ttem no 7/ Providing 20mm thick cement plater skirting with cement mortar 1:3 finish with floating coat 4.11(a) of neatcement

ы С	50 2	5 E	2 2	0	20
00 01	6.80	17.00	33.80	6962.80	50030.53 50.000.00
5.00 =	₹ 0.^ 7	1.70 =	Ш	н Ц	⊺ Say Rs. (Rupees Fifty thousand) only
×	×	×		-	s usan
2 00	2.00	5.00			ifty tho
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nt 1	64	61		206.00 per m2.	(Rupe
of neatcement				Q Rs.	

Submitted:

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ANNEXURE IV

MoA, SUB COMMITTEE DETAILS ETC.

Tanla and the second se	 To perform the duties, roles and responsibilities of the Society through the Governing Body listed in Rule 11 of the Constitution. 	4. To build up, associated links closely with village durbar / council for coordinating and convergence of rural development programmes within the watershed projects for holistic and realistic development of watershed community.	3 To promote empowerment of the village / watershed community socially, economically, financially, etc. with a sense of ownership / rights to ownership and responsibility and accountability.	2 To promote facilitation of social mobilization, community organization at the village / watershed level, building the capacities of village / watershed communities in planning and implementation and to ensure equity arrangements.	 To involve primary stakeholders at the centre of Planning, Budgeting, Implementation and Management of Watershed Projects. 	4 Objectives :	3. Date of establishment :	2 Registration Office of Association: Leven United United Strategy Committee, village United Strategy C&RD Block, Ri-Bh.B. P.O. Patlaskhman, PS 10	1. Name of Association : Lewor United in Unite			Covering village UnityToge. Chiloso. Nagradvil Jalsy.comunder IWMP(@)	LOWER UMLATHU of	Memorandum of Association
	ociety through the Governing Body	har / council for coordinating and the watershed projects for holistic	community socially, economically, ownership and responsibility and	nity organization at the village / shed communities in planning and	ig, Budgeting, Implementation and			m letter Watershed Sitting District, Meghalaya	Unvi Unvi District, Meghalaya	District, Meghalaya	C & RD Block,	lsydonunder IWMP(@)	. Watershed Committee	

16	15	14	3	12	=	10	9	8	7	0	5	4	w	N	-	No.	2e
				shar Winderson March	Shar Nowed March	Smit Notisha Tongsong	Sout Jenesis Tongsong	Smit Mon Mukhim	shi Momu Arenz	shri Rijendra Songma	Sha' birm Satimg	Shri Dombasco Kongrum	Shr Markus Lafasan	Shri Eberon Khongish	Shri Hiremnoy Setimo	Name	he :: averning Body of the Society (Watershed Committee)
				chibro	Jelsyland	Umphrago	umpranea	umtyrage.	Nagrabil	Nograbil	umhrage	umpanja	Unipago	umprogo	Tromprove	Address	rshed Committee)
															Chairman	Designation	

12	=	10	9	8	-	Ø	(J)	4	ω	N		No.	6. We Assoc	20	19	18			
showed	Nocuel month	N Jang Sang	J. Tampsonig	v Uanmahluddin	Shi Mone Air	R.R.Sayma.	D. M. Seeling	Bloggen	244	Sthe .	Buty	Signature	a, the undersigned are ciation (MoA)		North State				
Date C		and the second second							a sub-state of the second s			Occupation & Designation of the Signatory	6. We, the undersigned are desirous of forming the association in pursuance of the Memorandum of Association (MoA)			Contraction of the second		A NUMBER	
		the second		-				and the second second	and and a state			Name, Address, Occupation & description witness	pursuance of the Memorandum				and the second		

Photographs of PRA Exercises conducted at Umtyrnga

under Lower Umlathu Watershed IWMP-VI















