

SUMMARY

Name of the Sate	:	Meghalaya
Name of the District	:	South Garo Hills District
Name of the C&RD Block	:	Chokpot
Name of the Villages	:	Bugigre
Name of the Project	:	South Garo Hills – IWMP – I
Total Geographical Area	:	724.59 Ha
Total Treatment Area	:	500 На
Total Project Cost	:	75 lakh
Project Duration	:	5 Years
Project Implementing Agency	:	Soil & Water Conservation (Cash Crop) Division, Baghmara .

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CHAPTER I INTRODUCTION AND BACKGROUND

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INTRODUCTION AND BACKGROUND

1.1 Project Background:

The Bugi Micro (IWMP-I) project is located in Chokpot C&RD Block, South Garo Hills District of Meghalaya. Consisting of a single microwatershed, the project area is drained by the Bugi River and its tributaries flowing in a north to south direction. The total area is 724.59 Ha. with 500 to be treated under the Integrated Watershed Management Programme (IWMP).

The Project area is located at a distance of about 20 km from Chokpot C&RD Block. A total of one village are covered under the project and that is- Bugigre

1.2 Micro-watershed Information:

The Bugi micro-watershed code is yet to be codified by the North East Space Application Centre (NESAC). The total area of the micro-watershed is 724.59 Ha., with 500 hectares to be treated under the Integrated Watershed Management Programme (IWMP-I).

1.3 Need and Scope for Watershed Development:

The Bugi micro-watershed falls under the High Priority category as per the prioritization of watersheds by the North East Space Application Centre (NESAC). The farmers are all marginal and 24 households are present with 132 population. Jhum cultivation is practiced by most of the inhabitants of these villages on the slopes.

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

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

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

i. MGNREGS

CHAPTER II BASIC INFORMATION OF THE PROJECT AREA

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2.1 Location: The Project area is located within the area of Chokpot under the Chokpot C&RD Block , South Garo Hills District. It is situated at a distance of about 20 km from Chokpot . The geographical location is between $90^{\circ} 20'30''$ to $90^{\circ} 22' 24''E$ Longitude and $25^{\circ} 24' 00''$ to $25^{\circ} 26'59''N$ Latitude. There is only one village within the Watershed which is as follows –

1.Bugigre.

At present, these villages are connected to kuccha road.

2.2 Physiography:

The topography of the micro-watershed is highly undulating highly undulating table land tracts with gentle to moderate slopes. The slopes vary from 5% to 50 %. The lower reaches of the Watershed is relatively flat and suitable for agriculture. The altitude ranges from a minimum of 220m a high of 980 m above mean sea level.

Table 2.1: Physiographic details

Elevation (metres)	Slope Range (%)	Order of watershed Sub/Micro-watershed	Major streams	Topography
220 m to 980 m	5 % to 50 %	Micro Watershed	Bugi Stream	Moderately Sloping

2.3 Drainage: The major stream draining the micro-watershed is the Bugi River which is a 3th order stream flowing in a north-south direction. The slopes of the micro-watershed are dissected by numerous small tributaries flowing to the Bugi.

2.4 Soil: Soil Texture is loamy type with pH value varying from 4.6 to 6.1. The soil have been found to be acidic in nature, mostly high in organic carbon except in jhum cultivated areas, where it is low or high in available phosphorous or high or low in available potash. Owing to highly undulating land form and absence of good vegetation cover, the area is exposed to erosion hazards.

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)
			C are th	Water e	erosion: Sheet			
1	Meghalaya	South Garo	South Garo Hills –	b c	Rill Gully	500	2500-4000	10-15
1	wiegnalaya	Hills	IWMP I		total	500	2500-4000	10-15
				Wind erosion		Nil		

2.5 Climate: The area in the foothills or low lying areas and mid-slopes are hot in summer and remain cold throughout the winter. The area on the higher reaches is warm during summer and cold during winter. The average annual rainfall is 4400mm.

1	2	3	4	5	6	7		8	9										
S1.	Name of	Name of the Agro-	Area (in	(in Names of Names		Major soil types		Average annual rainfall in mm	Major crops										
No.	State	climatic zone	ha)	the districts	the Projects			(preceding 5 years' average)	a) Name	b) Area (ha)									
										Paddy	6.2								
									Chilli	12.7									
			tral						Fine Loamy very severe erosion	162 Ha		Ginger	12.7						
		Central							South	South Garo	hazard			Maize	12.7				
1	Meghalaya	Hyper Thermic	724.59Ha	Garo	Hills –	Coarse loamy soils moderate erosion hazards	331.8 Ha	На 2000-4000	Colocasia	12.7									
		plateau		Hills	IWMP – I				Brinjal	12.7									
															Fine Loamy severe erosion hazard	230.7 На		Pumpkin	12.7
								Total		41 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 people mostly practice jhum. The jhum plots vary from 0.5 to 1.0 Ha, and are cultivated for 3-4 years. The principal agricultural crops grown of the jhum fields are rice ,cow pea, pumkin , cucumber, potato,tapioca, millet, maize, yam and vegetables. Fruit crops are well suited in the lower reaches which include <u>Mangifera indica</u>, orange, jackfruit, litchi etc. The slopes of the Bugigre 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.)
Rice	6.2	15	93
Maize	12.7	6	76
Ginger	12.7	25	318
Turmeric	12.7	30	381
Chilli	12.7	4	51
Tapioca	12.7	30	381
Brinjal	12.7	20	254
Cowpea	12.7	15	191
Pumpkin	12.7	50	635
Colocassia	12.7	35	445
Cucumber	12.7	35	445
Total	133.2	265	3268

 Table 2.4: Crop yield and production

- 2.7 Natural Vegetation: The tree species common to the watershed area includes Cassia fistula, Dalbergia sissoo, Sizzygium cumini, Albizzia procera, Hollarteuna antidysentrica, Macaranga dentriculate, Aparosa roxburghii, Bombax cieba, Michelia champaca, Mangifera indica, <u>Delonix regia, Bamboo</u> <u>spp, Emblica officinalis, Grewea spp</u> etc. However, due to jhum cultivation the forest cover of the area has reduced considerably.
- **2.8 Socio-Economic Profile:** Economically, the area is perhaps the most backward in the district. The main reason is due to the absence of road communication, primitive way of agricultural practices like jhumming and the difficult terrain of the area.

Demographic Status: The total households in the watershed project is 24 with a total population of 124, of which 77 are male and 55 are female. The detail of the household in each of the villages in the watershed project is as follows:

Name of Village	No. of Households	No. of Male (Population)	No. of Female (Population)	Total (Population)	Average No.per family
Bugigre	24	77	55	124	5-6
Total	24	77	55	124	5-6

Infrastructure facilities :

- 2.1.1 *Roads:* The village within the Project Area is not connected by all weathered condition (Pucca) road. The Project area depends entirely on the kutcha road connected to Chokpot.
- 2.1.2 School: There is only 1 L.P School within the Project Area run by the Government.
- 2.1.3 *Electricity* : The project area is connected with electricity.
- 2.1.4 *Health* : There is no Community Health Centre in the village and the local population have to either depends on facilities available at Chokpot .
- 2.1.5 *Water Supply* : Drinking water supply have been provided to 15 households only by the PHE Deptt and the remaining household has to depend either on the springs or wells available in the locality . However, during lean season the entire population have to depend on springs available in the area as the supply is not sufficient to meet the daily requirement.
- 2.1.6 *Market* : There is a weekly market held once in a week at Chokpot where the people sell their produce.

Table 2.5: Infrastructure Status: Bugi

1	2		3	4				
Name of District	Name of Project		Parameters:	Status				
South Garo Hills	South Garo Hills- IWMP I	(i)	No. of villages connected to the main road by an all-weather road.	Nil				
		(ii)	No. of village provided with electricity	1 no.				
		(I)	No. of households without access to drinking water	24 nos.				
		(iv)	No. of educational institutions:	(P)	(S)	(HS)	(VI)	
		Primary (P)/ Secondary (S)/ Higher Secondary (HS)/ Vocational institution (VI)		1		-	-	
		(v)	No. of village with access to Primary Health Centre	Nil				
		(vi)	No. of village with access Veterinary Dispensary	Nil				
		(vii)	No. of village with access Post Office	Nil				
		(vI)	No. of village with access Banks	Nil				
		(ix)	No. of village with access Markets/ mandis	Nil				
		(x)	No. of village with access Agro-Industries	Nil				
		(xi)	Total quantity of surplus milk	Nil				
		(xii)	No. of milk collection centres	(U)	(S)	(PA)	(0)	
			(e.g. Union (U)/ Society (S)/ Private agency (PA)/ Others (O))	Nil	Nil	Nil	Nil	
		(xI)	No. of villages with access to Aganwadi Centres	Nil				
		(xiv)	Any other facilities with no. of villages (please specify)	Nil				

2.9 Livestock: There are only 2 kinds of livestock farming being farmed in the area viz. Piggery, Poultry.

Type of Animal	Population
Piggery	47
Poultry	204
Cattle	34
Total	285

Table 2.6: Existing livestock population

2.10 Land ownership: There are primarily two types of land holding system, namely Community and Private lands.

2.11 Table 2.7: Land Holding:Bugi

1	2	3	4	5	6					
	Name of the	Types of Farmer	of Farmer No. of No. of BPL Land holding (ha)							
District	Project	51	households	olds households Irrigated		Rainfed	Total			
		(i) Large	Nil	Nil	Nil	Nil	Nil			
South	South Garo	(ii) Small	9	9	Nil	68.16	68.16			
Garo	Hills –	(I) Marginal	15	15	Nil	92.24	92.24			
Hills	IWMP I	IWMP I	IWMP I	IWMP I	(iv) Landless	Nil	Nil	Nil	Nil	Nil
		Sub - Total	24	24	Nil	160.4 Ha	160.4 Ha			

1	2	3		4				5				
	Name of			Total Area (ha) Area owned/ In possession of					Area available for treatment (ha)			
Name of District	the Projects	CPR Particulars	Pvt. Person	Govt. (specify deptt.)	PRI	Any other (Community)	Pvt. Perso n	Govt. (specif y deptt.)	PRI	Any other (Communi ty)		
South Garo	South Garo Hills –	(i) Wasteland/ degraded land	Nil	Nil	Nil	230	Nil	Nil	Nil	230		
Hills	IWMP I	(ii) Pastures	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil		
		(I) Private Agriculture land	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil		
		(iv) Village woodlot	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil		
		(v) Forest	Nil	Nil	Nil	180	Nil	Nil	Nil	50		
		(vi) Village Ponds/ Tanks	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil		
		(vii) Community Buildings	Nil	Nil	Nil	1(one)	Nil	Nil	Nil			
		(vI) Weekly Markets	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil		
		(ix) Permanent Markets	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil		
		(x) Temples/ Places of worship	Nil	Nil	Nil	2 Nos.(Church)	Nil	Nil	Nil	Nil		
		(xi) Others (Pl. specify)	Nil	Nil	Nil	315	Nil	Nil	Nil	220		
		Total	Nil	Nil	Nil	725	Nil	Nil	Nil	500		

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

2.12 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 – I, Image) the Watershed area has been broadly classified into the following land uses.

a) Built-up Area	=	5.0 Ha
b) Forest area	=	180 Ha
c) Other-Shifting Cultivation Area (Current)	=	140 Ha
d) Other-Shifting Cultivation Area (Abandoned)	=	170 Ha
e) Wasteland	=	230 Ha
Total	=	725 Ha

Note : The area shown in the Map is different from the actual field area, the reason being the Satellite Image (LULC Map) was taken during 2005-06 (LISS-I, Image), which has been verified by actual field survey and taken into account.

2.13 Problems of the Area : The primary problems of the area is jhumming. Majority of the population depends on Jhum Cultivation for their livelihood. Vast tracks of abandoned Jhum areas are converted to vegetable and seasonal crops cultivation areas which has further degraded the capability of the land. 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 tamarind , 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 I

PROJECT PLANNING & INSTITUTION BUILDING

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

1	2	3
	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	Yes
	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	No
	9. Automatic water level recorders & sediment samplers	No
	Any other (please specify)	-

3.2 Project Implementing Agency:

The PIA is the Soil & Water Conservation (C.C) Division Baghmara 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 of Meghalaya
		(ii)	Name of organization	Soil & Water Conservation (C.C) Division,
				Baghmara
South Garo Hills	South Garo Hills-	(iii)	Designation & Address	Divisional Soil & Water Conservation Officer,
South Galo Thirs	IWMP I			(C.C)Division Baghmara
		(iv)	Telephone	03639-222139
		(v)	Fax	03639-222139
		(vi)	E-mail	baghmarasoil@gmail.com

3.3 Institution Building

i) Watershed Committee (WC) Bugi

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

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

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Names of the District s	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									Matriculate	A,B,C,D,E,F ,G,H
SGH	SGH- IWMP- I	Bugi Micro Watershed Committee		Secretary	М	-	ST									Matriculate	A,B,C,D,E,F ,G,H
				Member	5M	-	ST									Class V to VIII	A,B,E,,G
				Member	3F	-	ST									Class V to VIII	A,B,E,G

A. PNP and PRA

- B. Planning
- C. Maintenance of Accounts
- E. Supervision of construction activities
- G. Verification & Measurement
- I. Social Audit

- 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.

1	2		3				4				5			6	
Names	Nomos of		l no. of reg	istered S	SHGs	No. o	of mer	nbers			of SC/S ch categ		No. of BPL in each category		
of the Districts	Names of projects	W/1th	With only Women	With both	Total	Categories	М	F	Total	M (ST)	F (ST)	Total	М	F	Total
South	SGH.					(i) Landless	-	-	-	-	-	-	-	-	-
Garo	IWMP	2	2		4	(ii) SF	I	I	-	-	-	-	-	-	-
Hills	I	2	2	-	4	(I) MF	20	20	40	20	20	40	20	20	40
11115	1					(iv) LF	-	-	-	-	-	-	-	-	-

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

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.

3 5 1 2 4 6 No. of SC/ST in each No. of BPL in each Total no. of Ugs No. of members Names of Names of category category Districts Projects Wom Men Both Total Categories М F Total М F Total Μ F Total en (i)Landless South ---------South Garo (ii) SF 2 2 2 2 2 2 ---Hills-5 5 26 36 Garo (I) MF 20 14 34 20 14 14 34 34 20 Hills IWMP (iv) LF -I -----22 Total 5 5 26 36 36 22 14 22 14 36 14 36

Table 3.4: User Group Details

CHAPTER IV PROJECT ACTIVITIES

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
SI. No.	State	District	Names of Project	Amount earmarked for EPA	Entry Point Activities planned	Estimated cost	Expenditure incurred	Balance	Expected outcome	Actual outcome
	a	o Hills	SGH –	Rs 3.0	Repairing of community hall	1.05	1.05	Nil	NA	NA
1	Meghalaya	th Garo	IWMP I	Lakh	Repairing of link road	1.50	1.50	Nil	NA	NA
	Meg	South			Construction of Foot path	0.45	0.45	Nil	NA	NA
					Total	Rs 3.0	Rs. 3.0			

ii) Other activities of Preparatory Phase:Bugi

1	2	3	4	5	6	7	8	9	10	11	12	13
District	Name of Project s	Initiation of village level institution	Capacity building	IEC activiti es	Baseline survey	Hydro- geologic al survey	Identifying technical support agencies	Resource agree- ments	Preparatio n of DPR	Evaluatio n of DPR	Any other (please specify)	Cost incurr ed (Rs. In lakh)
South Garo Hills	South Garo Hills – IWMP I	Community Organisation	 For WDT Members For WC For SHCs For Farmers For UGs 	_	Done	Done	Done	Done	Done	Done	-	1.5

Watershed Works Phase:

4.2.1 Activities related to surface water resources in the project areas: Bugi

1	2	3	4	5		6								7					
					P	Pre Proj	ect						Prop	osed Project					
s	ates	ricts	jects			(ha)	ity	A	-	ation/ rep g structu		Cons	struction of	new structu	res		Total	l target	
1. N 0	Name of States	Name of Districts	Name of Projects	Type of structures	No	Area irrigated (ha)	Storage capacity	N o	Area to be treated (ha)	Storage capacity	Estimated cost (in lakhs)	No	Area to be treated (ha)	Storage capacity (per unit)	Estimate d cost (in lakhs)	No	Area to be treat ed (ha)	Storag e capaci ty (m ³)	Estima ted cost
1				(i) Tank	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			I -	(ii) Pond	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			ΔP	(iii) Lake	-	-	-	-	-	-	-	_	-	-	-	-		-	-
		ills	– IWMP	(iv) Check Dam	-	-	-	-	-	-	-	9 Nos.	72	1300	10.80	9 Nos.	72	11700	10.80
	Meghalaya	Garo Hills	Garo Hills	(v) Percolation Tank	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	lgh	Ű	ITO	(vi) Channel	-	-	-	-	-	-	-	550 Rm	7.5	-	1.125	550 Rm	7.5	-	1.125
	Me	South	South Ga	(vii) Any others(please specify)1 ProtectionWall2 WaterHarvesting	-	-	-	-	-	-	-	9 Nos 9 Nos	48 45	- 1236	7.20 6.75	9 Nos 9 Nos	48 25	- 11124 m³	7.20 6.75
			Total					-	-	-	-	27 Nos & 550 Rm	172.5 Ha	2536 m ³	25.875	27 Nos & 550 Rm	172.5 На	22824 m ³	25.875

						8					9	10
				Ach	nievement	due to proj	ject					
Augr	nentation/ stru	repair of ctures	existing	Cor	astruction of	of new strue	ctures	To	tal achievem	ent	Change in storage capacity (col 8-6)	Change in irrigated area (ha) Col. (8- 6)
No	Area irrigated (ha)	Storage capacit y	Expendit ure incurred (in lakhs)	No	Area irrigated (ha)	Storage capacity	Expenditur e incurred (in lakhs)	Area irrigated (ha)	Storage capacity	Estimated incurred		-
Nil	Nil	Nil	Nil	9 Nos.	72	11700	10.80	-	_	-	-	-
				-	-	-	-					
				550 Rm	7.5	-	1.125					
				9 Nos 9 Nos	48 25							

	· · ·	• •	4 · 4 · • •
4.2.2 Activities related	to recharging ground	l water resources in	the project areas: Bugi

1	2	3	4	5		6		7 Proposed target										8				9	
					Pre	-project		Proposed target						Achi	eveme	nt due to	project						
S. No	es of States	Names of Districts	s of projects	Type of structures	No.	Area structures Total target			entation/ re sting rechar structures			nstruction of new narging structures		Total ach	ievement	Change in irrigated area (Col. 8-							
	Names	Names	Names			(ĥa)	No.	Area to be irrigated (ha)	Estimat ed cost	No.	Area to be irrigate d (ha)	Estimate	Area to be irrigated (ha)	Estimate	No.	irrigated	Expen di-ture incurre d	No	Area irri- gated (ha)	Expen di-ture incurre d	Area irri- gated (ha)	Expendi -ture incurred	6) (ha)
				(i)Open wells																			
		fills	ΞŢ	(ii)Bore wells							Nil												
	Meghlaya	South Garo Hills	uth Garo IWMP	(iii)Any others(Pl. specify)1 CC Check Dam2 Water Harvesting		Nil		Nil		9 9	-	10.80 6.75	Nil			Nil			Nil		Nil		
				Total for the project						18		17.55											

4.2.3 Activities executed by User Groups in the Project Areas: Bugi

	2				3			
			Major activities of the UG	s –Targets				
Names of	Names of		Structure/ activity pro	posed		No. of		Amount of WDF to
Districts	Projects	Sl. No.	Туре	No.#	Treatment (ha)	UGs involved	Estimated Cost	be collected (Rs.)
South Garo Hills	South Garo Hills – IWMP I	2 3	Protection wall Water harvesting CC Check dam Run –off Disposal channel	5 5 5 275 RM	26.66 25 40 3.75	5	Rs 3.75 Lakhs Rs 6.0Lakhs	Rs 0.2 Lakhs Rs 0.1875 Lakhs Rs 0.3 Lakhs Rs 0.28125 Lakhs

4.2.4 Activities executed by User Groups in the Project Areas: Bugi

	4													
			Major activitie	es of the U	JGs – Achiev	ement	S							
	Structure/ activi	ty		No. of	Expenditure	l	No. of ma	andays	Amount of WDF					
Sl. No.	Туре	No.#	Treated Area (ha.)	UGs involved	incurred (Rs.)	SC	ST	F	collected (Rs.)					
1	Protection Wall	5	26.66	5	Rs 4.0 Lakhs	Nil	1440	960	Rs 0.2 Lakhs					
2	Water Harvesting	5	25	5	Rs 3.75 Lakhs	Nil	1350	900	Rs 0.1875 Lakhs					
3	CC Check Dam	5	40	5	Rs 6.0 Lakhs	Nil	2160	1440	Rs 0.3 Lakhs					
4	Run-off Disposal Channel	275 RM	15	1	Rs 0.5625 Lakhs	Nil	202	135	Rs 0.28125 Lakhs					
	TOTAL		106.66											

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

1	2		3								
		Major activities of the SHGs									
Names of the Districts	Names of projects	Name of activity	No. of SHGs involved	Average annual income from activity per SHG							
	South Garo Hills –	1. Pisciculture	2	Rs 0.75 Lakh (Approx)							
South Garo Hills	IWMP I	2. Carpentry	3	Rs 0.85 Lakh(Approx)							
		3. Kitchen Gardening	5	Rs 0.25 Lakhs (Approx)							

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

4			5		6	7		8		9	10
No. of	Total as	sistance re (Amoun	ceived by t t in Rs.)	he SHG	Total annual	Total			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	Π	Ι	loan sanctioned by the bank(s)	No. of SHGs federated
5	-	3.75	-	-	5.3	-	-	-	-	-	-

4.2.7 Other activities of watershed works phase: Bugi

1	2		3	4	ŀ	5	i	6		7		8	3	9		1	0	11		1	2	13
District	Names of projects	treat	tment	Draina treati	ment	raising		Land development		Crop demonstrations		Pasture development		Veterinary services		Fishery development		Non-conventional energy		Any other (please specify)		Total cost incurred (Rs. In lakhs)
		(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	
SGH	SGH IWMP -I	55 Ha	6.171 lakh	192.5 Ha	25.875 lakh	90,000 Nos	5.454 lakh	-	-	-	-	-	-	-	-	-	-	-	-	-	20.25	57.75

4.2.8 Details of engineering structures in watershed works: Bugi

1	2	3		4			5		6				7				8					
			Туре о	of treatn	nent	Ту	pe of la	und	Executing agency			Т	arge	et		Achievement						
District	Project	Name of structures	(i) Ridge area (R)	(ii) Drainage line	Dev.	(i) Pri- vate	(ii) Com- munity	. (pi.	(ii)SHG (iii) Others (pl	units lakh) (No./			month & year of	No. of units (No./	Expenditure incurred (Rs. in lakh)					Actual month & year of completion		
			(1	(D) (L	(L)			specify)		rmt)	М	W	0	Т	(mm/yyyy)	cu.m. м rmt)	М	W	0	Т	uon	(mm/yyyy)
		Staggered trenching																				
		Loose boulder Contour bund																				
	Garo	Graded bunding																				
	Hills- IWMP -I	Protection wall			L	Р	C		Beneficiary/ UG	9	1.6	2.40		4.0	2012-13	9	1.6	2.40		4.0	2012-13	
		Earthern checks dams																				
South		Masonary stop Dams																				
Garo		Gully plug																				
Hills		Gabion structures																				
		Underground dykes																				
		Field bunds																				
		Any others (pl. specify)																				
		1.CC Check Dam	R	D		Р	С		UG Beneficiary	9	4.32	6.48		10.8	2012-13	9	4.32	6.48	\$	10.8	2012-13	
		2.Water Harvesting								9	2.7	4.05		6.75	2012-13	9	2.7	4.05	5	6.75	2012-13	

Contd.

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4.2.9 Details of engineering structures in watershed works: Bugi

							9											
	Outcomes																	
Reduction	Area	Water level (m)		Production		Income (Rs.)			Ma	andays g	enerated		No. of beneficiaries					
in run off	treated#		[(quintal)						Others								
(cu.m)	(ha)	Pre- project	Post project	Pre- project	Post project	Pre- project	Post project	SC	ST	(Men)	Women	Total	SC	ST	Others	Women	Total	
2000	172.5	1.5	1.3	905	1810	12 Lakhs	12 Lakhs 25 Lakhs		6280	3480	2800	6280	Nil	24	Nil	Nil	24	

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

1	2	3		4			5		б			7				8		
			Туре	e of treat	ment	T	ype of	land	Executing agency]	Farget		Achievement				
District	Proje ct	Name of structure/ work	(i) Ridge area (R)	(ii) Draina ge line (D)	(iii) Land dev. (L)	(i) Priv ate	1 om	(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 & SHG	55	5,500	6.171	2012-13	-	-	-	-	
		Regeneration												-	-	-	-	
	South	Agro-forestry												-	-	-	-	
	Garo	Fuel wood																
South Garo	Hills	Fodder																
Hills	IWM P-I	Agro- Horticulture												I	-	-	-	
	r -1	Pasture dev.																
		Nursery raising				\checkmark				75 Ha	90,000	5.454	2012-13					
		Others (Coffee)												-	-	-	-	

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

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

							9							
							Outcon	nes						
De des stiens in	Produ	ction	Inco	ome			Mandays g	enerated]	No. of bene	eficiaries	
Reduction in run off	(quir	ntal)	(R	s.)		S								
(cu.m)	Pre-	Post	Pre-	Post	SC	ъ Т	Others	Women	Total	SC	ST	Others	Women	Total
(eu.iii)	project	project	project	project		1								
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Nil	Nil	Nil	Nil	Nil	Nil							Nil		
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

1	2	3		4		5		6	,	7
				Type of	fland	Executing agency		Target	Achiev	vement
District	Project	Name of activity@	(i) Priv ate	(ii) Commu nity	(I) Others (landless)	(i) UG (ii)SHG (I) 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)
		Crop demonstration			3 units	Individual	0.24	2012-13	0.24	2012-13
		Carpentry			Nil	Nil	Nil	Nil	Nil	Nil
		Bee Keeping			Nil	Nil	Nil	Nil	Nil	Nil
		Backyard Poultry			Nil	Nil	Nil	Nil	Nil	Nil
		Small Ruminants			Nil	Nil	Nil	Nil	Nil	Nil
a 1	South	Other Livestocks			Nil	WC	Nil	Nil	Nil	Nil
South Garo	Garo Hills-	Fisheries(Pisciculture)	10	Nil	Nil	UG,SHGs, WC	1.58	2012-13	1.58	2012-13
Hills	IWMP I	Non Conventional energy Saving devices (bio fuel)	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
		Energy conservation measures	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
		Others (Pl. specify) Kitchen Gardening	10 unit s	Nil	Nil	SHG/UG	0.5	2012-13	0.5	2012-13

(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.

					8								
				Out	comes								
Income (Rs.)	Income (Rs.) Mandays generated No. of beneficiaries												
Pre-project	Post project	SC	ST	Others	Women	Total	SC	ST	Others	Women	Total		
Nil	12.0 Lakhs												

4.2.13 Details of allied / other activities:

4.3 Consolidation and withdrawal phase: Bugi

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

1	2	3	4	5		6					7				
	ots	0				Targe		•	Achiev	eme	ent				
Names of the Districts	s of projects	ne (s) of the villages	CPR particulars	Activity proposed		expenditure	Expecte	bution to	Area treated under the	Expendit ure incurred	Actual no. of benefici-		No. mand		WDF collected
Nar L	Names	Name			activity (ha)	(Rs.)	a-ries	WDF (Rs.)	activity (ha)	(Rs.)	aries	S C	ST	F	(Rs.)
lls	VMP-I		1 . Protection/ Retaining Wall	Repairing	7	1.05 lakhs	7	0.0525 lakhs	7	1.05	7		378	252	0.0525 lakhs
South Garo Hills	Garo Hills-IWMP-I	ıgig	2. Water Harvesting Structure	Repairing	8	1.2	8	0.06 Lakhs	8	1.2	8		432	288	0.06 Lakhs
Sc	South 6		3. CC Check Dam	Repairing	6.66	1.0	5	0.05 Lakhs	6.66	1.0	5		360	240	0.05 Lakhs

CHAPTER V PROJECT PHASING & BUDGETING

CHAPTER V PROJECT PHASING & BUDGETING

ACTION PLAN OF BUGI MICRO WATERSHED UNDER IWMP-I

Name of District:	South Garo Hills
Name of C&RD Block:	Chokpot

													Rs. In Lakhs
SI No.	Activities	1st	Year	2nd `	Year	3rd	Year	4th '	Year	5tl	h Year	Tot	tal
	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
I	MANAGEMENT COST 10 %	0.60	%	2	%	4.30	%	3.10	%			10	%
Α	Administration Cost												
i	Honourarium of WDT Members @ Rs. 5,000 Month: 1 No.	6 Mnths	0.30	4 Mnths	0.20	20 Mnths	1.00	18 Mnths	0.90			48 Mnths	2.40
	Honourarium of Watershed Volunteers @ Rs												
11	1,000			10 Mnths	0.10	10 Mnths	0.20	4 Mnths	0.20			24 Mnths	0.50
iii	Honourarium WCO's @ Rs. 750 Month				-	14 Mnths	0.11	10 Mnths	0.0750			24 Mnths	0.18
iv	Honourarium Chartered Accountant						0.15		0.15				0.30
v	TA/DA of Field Asstt. @ Rs. 5000 Month	3 Mnths	0.15	6 Mnths	0.30	10 Mnths	0.50	5 Mnths	0.25			24 Mnths	1.2
vi	Hiring charges of office building @ Rs 2000				-	16 Mnths	0.32	8 Mnths	0.16			24 Mnths	0.48
vii	Hiring charges of vehicle @ Rs. 2000				-	6 Mnths	0.12	6 Mnths	0.12			12 Mnths	0.24
viii	Office expenses, PQL, Stationeries, printing				0.90		0.831		0.469				2.20
	of SHG's books, pamphlets, tea, snacks etc.												
	Total of A	9 Mnths	0.45	20 Mnth	1.50	76 Mnth	3.226	51 Mnth	2.3236			156 Mnth	7.5
	PREPARATORY PHASE 4 %	4	%								•	4	%
В	Entry Point Activites:												
i	Renovation/ Reparing of Community Hall	1 No.	1.05									1 No.	1.05
ii	Foot Path	1 Km.	0.45									1 Km.	0.45
iii	Repairing of Link Road 1 Km @ Rs. 1.5 Lakhs	1 Km.	1.5									1 Km.	1.5
	Total of B	1 No.	3.00									1 No.	3.00
		2 Km.										2 Km.	

39

С	Training 5 %	` 0.40	%	2.00	%	2.6	%			5	%
i	Community Organization	1 No.	0.15	1 No.	0.30	2 Nos.	0.60			4 Nos.	1.05
	Training of WDT at NIRD/ Guwahati			1 No.	0.20	2 Nos.	0.40			3 Nos.	0.60
iii	Taining for W.C	1 No.	0.15	1 No.	0.20	1 No.	0.30			3 Nos.	0.65
	Taining for SHGs			1 No.	0.25	1 Nos.	0.25			2 Nos.	0.50
	Taining for Farmers			1 No.	0.20	2 Nos.	0.40			3 Nos.	0.60
	Training for Ugs			1 No.	0.35					1 Nos.	0.35
	Total of C	2 Nos	0.30	6 Nos	1.50	8 Nos	1.95			16 Nos.	3.75
D	Detailed Project Report 1 %	1	%							1	
-	1 No. of vehicle hiring charge	30 Days	0.50							30 Days	0.50
-	Detail Base Line Survey, Identification of	ŕ								,	
	Enggineering Structures, PRA Exercise, Making		0.25								0.25
	Estimate & Project Report etc.										
	Total of D	30 Days	0.75							30 Days	0.75
E	Monitoring & Evaluation 2 %			0.5	%	0.8333	%	0.667	%		%
	Monitoring			1 No.	0.15	1 No.	0.3125	1 No.	0.25	3 Nos	0.71
	Evaluation			1 No.	0.225	1 No.	0.3125	1 No.	0.25	3 Nos	0.79
	Total of E			2 Nos.	0.375	2 Nos	0.63	2 Nos.	0.50	6 Nos	1.500
		9 Mnths		20 Mnths		76 Mnths		51 Mnths		156 Mnths	
	Total of I (A to E)	3 Nos	4.50	8 Nos.	3.38	10 Nos.	5.801	2 Nos.	2.8236	23 Nos.	16.50
		30 Days								30 Days	
П	PROJECT COST/ WATERSHED WORKS PHASE			3.168	%	2.2	%	10.132	%		%
Α.	Non-Arable Land Treatment 15.50 %										
i	Nursery Establishment-Arecanut, 90,900 Nos.							90,900	5.454	90,900	5.454
	75 Ha @ Rs. 6 / No.										
ii	Afforestation (Non Pine) 55 Ha @ Rs. 11,220/-										
	a) Preliminary Year @ Rs. 4,320 /- per Ha			55 Ha.	2.376					55 Ha.	2.376
	b) 1st Year Planting @ Rs. 3,000 /- per Ha					Mntce	1.65				1.65
	c) 2nd Year Planting @ Rs. 3,900 /- per Ha							Mntce	2.145		2.145
	Total of A			55 Ha.	2.376		1.65		7.599	55 Ha.	11.625
								90,900	Nos.	90,900	Nos.
В	Drainage Line Treatment 34.50 %			0	%	28.767	%	5.73333	%	34.50	%
ii	Protect/ Retaining Wal @ Rs. 80,000					7 Nos.	5.60	2 Nos.	1.60	9 Nos.	7.20
iii	Water Harvesting Structure @ Rs. 75,000					7 Nos.	5.25	2 Nos.	1.50	9 Nos.	6.75
iv	C.C Check Dam @ Rs. 120,000					8 Nos.	9.60	1 No.	1.20	9 Nos.	10.80
v	Run-off Disposal/ Diversion Channel as per	i i				550 Rm.	1.125			550 Rm.	1.125
	Estimate										
	Total of B					22 Nos.	21.575	5 Nos.	4.30	27 Nos	25.875
						550 Rm.				550 Rm.	
						550 Rm.				550 Rm.	
	Total of A+ B 50 %			55 Ha.	2.376		23.225		11.899	55 Ha.	37.50
						22 Nos.		90,905	Nos.	90,927	Nos.

С	Livelihood Activities & 23 % (10+13)			6.332	.%	11.298	3%	5.36987	7%			23	%
	Production System and Micro Enterprises												
i	Rubber Plantation 42 Ha. @ Rs. 28,935												
	a) Pre-Work @ Rs. 7750/- per Ha.			51.6 Ha	3.999							51.6 Ha	3.9990
	b) 1st Year Planting including cost of Rubber					Mntce	7.534						7.5336
	Stump @ Rs. 14,600 /- per Ha.												
	c) 2nd Year Planting @ Rs. 6,585 /- per Ha.							Mntce	3.39787	'			3.39787
ii	Pisciculture @ Rs. 3 /-			25,000	0.75	15,000	0.45000	12,651	0.37953			52,651	1.58
ii	Carpentry 4 Units @ Rs. 8,000					3 Units	0.240					3 Units	0.240
iii	Kitchen Gardening @ Rs. 5,000 /- per unit					5 Units	0.25	5 Units	0.25			10 Units	0.50
	Total of D			51.6 Ha	4.749	8 Units	8.474	5 Units	4.027			13 Units	17.25
				25,000	Nos.	15,000	Nos.	50,000	Nos.			52,651	Nos.
												52 Ha.	
D	Consolidation & Exit Phase 5 %									5	%	5	%
ii	Repairing of Protection/ Retaining Wall									7 Nos.	1.05	7 Nos.	1.05
iii	Repairing of Water Harvesting Structure									6 Nos.	1.20	6 Nos.	1.20
iv	Repairing of C.C Check Dam									5 Nos.	1.00	5 Nos.	1.00
v	Preparation of Project Completion Report									1 No.	0.25	1 No.	0.25
vi	Documentation of the Project									1 No.	0.25	1 No.	0.25
	Total of E									20 Nos.	3.75	20 Nos.	3.75
	Total of II (A+B+C+D)				7		32		16		3.75		58.50
	Grand Total		4.50		10.50		37.50		18.75		3.75		75.00
	100 %	6	%	14	%	50	%	25	%	5	%	100	%

Remark(if any)

Approved by :-

(Smt, M.H.K.Marak) The Chair Person of D.M.D.C. & The Deputy Commissioner South Garo Hills, Bag mara.

Deputy Commissions. (South Gare Hills, Baghmara,

Signed by (Name, Designation Office)

(L. L. Marak) 4/10

Divisional Soil & Water Conservation Officer Bagimara Soil Conservation Cash Crop Division South Garo Hills::::Meghalaya.

ABSTRACT OF PERSPECTIVE PLAN FOR CONVERGENCE OF NREGS WITH IWMP 2009-10 AT BUGIGRE VILLAGE UNDER BUGI MICRO WATERSHED,SGH - IWMP-I

PROJECT PERIOD

Total Wage Component @ Rs 117/- per annum in the 1st year	Rs.	2,06,739
Total Wage Component @ Rs 117/- per annum in the 2nd year	Rs.	6,08,739
Total Wage Component @ Rs 117/- per annum in the 3rd year	Rs.	247656
Total Wage Component @ Rs 117/- per annum in the 4th year	Rs.	
Total Wage Component =	Rs.	10,63,134

Name of Village : Bugigre

Total No. of Job Card Holder : 24 Hou

24 Households

C	•			
				Total
2013-14		2014-15		Total
Financial	Phy	Financial	Phy	Financial

SI N	o Activities	Units		2011-12			2012-13	3		2013-1	4		2014-	15			Total		to
5110	Activities	Units	Phy	Financial		Dhy	Finar	ncial	Phy	Fina	ncial	Phy	Fin	ancial	Phy		Financial		be
			FIIY	Wages	Material	FIIY	Wages	Material	FIIY	Wages	Material	FIIY	Wages	Material	FIIY	Wages	Material	Total	Generated
	1 Afforestation @	Nos.	7.5	50,490	33,660	7.5	50,490	33,660	7.5	50,490	33,660				22.5	1,51,470	1,00,980	2,52,450	1295
	Rs. 11,220																		
	2 Rubber Plantation	Ha.	9	1,56,249	1,04,166	9	1,56,249	1,04,166	6	1,04,166	69,444				24	4,16,664	2,77,776	694440	3561
	@ Rs. 28935 per Ha.																		
	3 Protection Wall/Retaining	Nos.				2	96,000	64,000	1	48,000	32,000				3	1,44,000	96000	240000	1231
	Wall @ Rs. 80,000/-																		
	4 Water Harvesting @	Nos.				2	90,000	60,000	1	45,000	30,000				3	135000	90000	225000	1154
	Rs. 75,000/-																		
	5 CC Check Dam @	Nos.				3	2,16,000	1,44,000							3	216000	144000	3,60,000	1846
	Rs. 1,20,000/-																		
	Total			2,06,739	1,37,826	7	6,08,739	4,05,826	2	2,47,656	1,65,104				9	10,63,134	7,08,756	17,71,890	9087
			16.5	На		17	На		14	Ha.					46.5	Ha.			

Amount Allocated for Covergence for the period 2011-12 to 2014-15

Grand Total	Rs.	17,71,890
2. Material Component	Rs.	7,08,756
1. Wage Component	Rs	10,63,134

Grand Total (Seventeen lakhs seventy one thousand eight hundred eighty eight) only

8

Allpson M Songare

President Bugigre VEC Chokpot C&RD Block South Garo Hills

Jon Commission South Gara Cillis, Boghmars,

Barnabash Ch. Mari ich Garo Mata NRE Secretary Bugigre VEC Chokpot C&RD Block South Garo Hills

Mandays

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

1	2	3	4	5	6	<u>5</u>	7	8	9			10				11		
S L N	Name of	Name of Distric	Names of Projects	Year of sanct	Pro dura (dd/r yyy	tion mm/	Area of the projects	Project cost (Rs. In	Names of Micro watersheds & Code nos. (as per DoLR's	Area (ha) of the projects					ea details within the		5)	
0		ts	Tojeets	ion	From	То	projects	lakh)	unique codification)									
										Cultiva ted rainfed area	Cultiva ted irrigate d area	Unculti waste		Pvt. Agri. Land	Forest land	Comm unity land	Othe rs (pl. speci fy)	Total area (ha)
												a) Tempora ry fallow	b) Per manent					
1	Meghalaya	South Garo Hills	South Garo Hills – IWMP I	2009 -10	2009- 10	2013 -14	724.59 Ha	75 Lakhs	Bugi Micro W/shed NA	160.4	Nil	339.6	Nil	34	180	90	196	500

Fund provision for the IWMP projects from all sources: Bugi

1	2	3	3		4 Funds from other sources in addition to IWMP funds									
	NT					Funds	from other s	ources in	n addition to	IWMP f	unds			
Distri ct	IWMP Fund		• Fund	Convergence funds		I	PPP	Con	nmunity		utional		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	
South Garo Hills	South Garo Hills – IWMP I	67.5 lakhs	7.5 lakhs	NREGS	10.63134	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	85.631 34 Lakhs

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

1	2	3	4		5					6		
				Distt.	Agency's Proj	Project Account details Watershed Committee (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	South Garo Hills	South Garo Hills – IWMP I	State Bank of India, Baghmara Branch	309795040 14	Zero Balance Account	Shri L.N Marak , DS&WCO	Bugi Micro Watershed Committee	SBI, Baghmara	3151316 5585	Saving	Shri Alep M Sangma (Chairman of Bugi Micro Watershed) & Abel Sangma (Secy)

Details of Convergence of IWMP with other Schemes: Bugi

	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	South Garo Hills	South Garo Hills – IWMP I	* Community Rural Development Department NREGS	10.63134	 a) Afforestation 22.5 Ha. b) Rubber Plantation 24 Ha. c) Protection Wall/Retaining Wall 3 nos. d) Water Harvesting 3 nos. e) CC Check Dam 3 nos. 	-	Block Level & District Level

Note: Bugigre village

(a)Afforestation 22.5 ha.
(b)Rubber Plantation 24 ha.
(c)Protection Wall/Retaining Wall 3 nos
(d)CC. Check Dam 3 nos
(e)Water Harvesting 3 nos

Wages-1.5147 Lakhs; Wages-4.16664 Lakhs; Wages-1.44 Lakhs; Wages-2.16 Lakhs; Wages-1.35 Lakhs; Material-1.0098 Lakhs; Material-2.77776 Lakhs; Material-0.90 Lakhs; Material-1.44 Lakhs; Material- 0.90 Lakhs;

1	2	3	4				5	6	7	8	9
	Name Priva		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
South Garo Hills	South Garo Hills IWMP- I	Nil		Nil		Nil	Nil	Nil	Nil	Nil	Nil

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

CHAPTER VI CAPACITY BUILDING

CHAPTER VI CAPACITY BUILDING

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

1	2	3	4	5	6	7	8			9		
		Name of	Full Address	Name &			Accre-			Performance		
S.	State	the	with contact	Designation	Type of Institute [#]	Area(s) of	ditation	Refer-ence	No. of	No. of	No. of	No. of
No	~	Training Institute	no., website &	of the Head of Institute	-)	specialization ^{\$}	details	Year	trainings	trainees to	trainings	trainees
1	C at at		e-mail		Tariaian Institute				assigned	be trained	conducted	trained
1	Guwahati	NIRD (NER)	Khanapara, Guwahati	Director	Training Institute	Training e.t.c	-	2009-10	3	2	3	2
2	Meghalaya	SIRD	Nongster, Ri- Bhoi District	Director, Smt Lona R Sangma	Training Institute	Training e.t.c	-	2011	1	1	1	1
3	Meghalaya	RRTC	Umran, Ri- Bhoi District	Director	Production & Training	Trainig & Production	-	2010, 2011, 2012	3	4	3	4
4	Meghalaya	CTI	Byrrniihat	Jt. Director K.S Kapley	Training	Training	-	-	-	-	-	-
5	Meghalaya	ICAR	Umium	Director Dr. S.V Ngachan	Research & Development	Research & Development	-	-	-	-	-	-
6	Meghalaya	NEHU	Tura Campus	S.S Khare Pro-vice Chancellor	Academic & Research	Academic & Research	-	-	-	-	-	-

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

- From Column no. 2, total no. of States implementing the programme, from Column no. 3, no. of training institutes, from column No. 9, total no. of category-wise trainings and trainees may be given at the end of the table for the entire country
- # Central govt. Dept./ State govt. Dept./ Autonomous Body/ Research Institutes/ Universities/ Others (pl. specify)

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

Table 6.2: Capacity Building activities for the year <u>2009 – 10</u> as on <u>31/01/2010</u> (dd/mm/yyyy)*Bugi

1	2	3	4	5		6		7
Project	Total no.	No. of persons	No. of persons to be trained	No. of persons trained during	Sources of funding for training			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	-	-	-	-				
DRDA/ZP cell	-	-	-	-				
PIAs	40	5	16	5				
WDTs	2	-	2	-				
UGs	65	-	65	Nil	3.75	-	1.50	-
SHGs	40	-	40	-				
WCs	12	-	12	12				
GPs	-	-	-	-				
Community	372	-	65	65				
Others Pl. specify)	-	-	40 (Farmers)	-	-	-	-	-

	1	2	3	4	5
	Activity	Executing agency	Estimated expenditure (Rs.)	Expenditure incurred (Rs.)	Outcome (may quantity, wherever possible)
1.	Awareness	S&WC (CC) Division	0.75	0.75	
4.	Capacity Building	S&WC (CC) Division	0.75	0.73	-

CHAPTER VII EXPECTED OUTCOME

CHAPTER VII EXPECTED OUTCOME

Table 7.1 Employment related outcomes: Bugi

			1 2													
Sl	Name of		Wage employment										Sel	f employı	ment	
No	Village		No	o. of mand	lays			No.	of benefi	ciaries		No. of beneficiaries				
		SC	ST	Others	Women	Total	SC	ST	Others	Women	Total	SC	ST	Others	Women	Total
1.	Bugigre	-	100 %	11204	7469	18673		100 %	77	55	132	2 100 % 40 25				65

Table 7.2 Migration Details: Bugi

1	2	3	4	5	6	7	8	9	1	0
Names of the Districts	Names of Projects	Name of village	No. of persons migrating	No. of days per year of migration	Major reason(s) for migrating	Distance of destination of migration from the village (km)	Occupation during migration	Income from such occupation (Rs. in lakh)	identify majo	d migration or activities of esponsible (b) Livelihoods
South Garo Hills	SGH- IWMP-I	Bugigre		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: Bugi

]	l		2		3	4
Wa	ges	Trai	ning	Liv		
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)
9600	16	52	1.5	40	3.45	20.95

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

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

1	2	3	4	5	6			7		8
Names of the Districts	Names of the	Names of the	Particular of CPR	Nature of	Period of	Be		y details (1 milies)	no. of	User Charges
Districts	projects	villages		right	right	SC	St	Others	Total	(Rs.)
South Garo Hills District	SGH-IWMP-I	Bugigre	Community Forest	Fw	6 months	-	24	-	24	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: Bugi

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	1.5	1.4	1.3	0.2	-
South Garo Hills District	SGH-IWMP I	Bore wells	NA	NA	NA	NA	NA
		Others (specify) Springs	Very poor	Poor	Good	Increased	

Table 7.5.1 Details of average ground water table depth in the project areas of the Country: State-wa	ise * (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: Bugi

1	2		3			4		5
Distaint	Name of the		oility of drinki of monyhs in a	0	Qualit	y of drinking	, water	Commonte
District	project	Pre-project	Post- project	Change in availability	Pre- project	Post- project	Change in quality	Comments
South Garo Hills District	SGH-IWMP I	Insufficient	Sufficient	10-12 months	Moderate	Improved	Improved	Improved & Sufficient

* 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: Bugi

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
South Garo Hills District	SGH-IWMP I					

* 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: Bugi

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

1	2	3			4							5						6		
					Pre-pr	oject					Mi	d-term					P	'ost-pro	oject	
Names of the Districts	Name of Projects	Name of crops		rea 1a)	Yi (Qtl	rage eld) per a.	Pro	'otal duction Qtl)		rea ha)	Yi per	erage ield r ha (tl)	Prod	otal uction Qtl)	Ar (h		Yi per	rage eld : ha (tl)	Total Production (Qtl)	
			Irri	Rf.	Irri	Rf.	Ir ri	Rf.	Irr i	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.
		Rice	-	6.2	-	15	-	93	-	5	-	18	-	90	-	4	-	24	-	96
South	SGH-	Maize	-	12.7	-	6	-	76	-	5	-	8	-	40	-	4	-	8	-	32
Garo	IWMP I	Ginger	-	12.7	-	25	-	318	-	5	-	28	-	140	-	4	-	29	-	116
Hills		Turmeric	-	12.7	-	30	-	381	-	5	-	32	-	160	-	4	-	33	-	132
District		Chilli	-	12.7	-	4	-	51	-	5	-	6	-	30	-	4	-	7	-	28
		Tapioca	-	12.7	-	30	-	381	-	5	-	32	-	160	-	4	-	33	-	132
		Brinjal	-	12.7	-	20	-	254	-	5	-	22	-	110	-	4	-	23	-	92
		Cowpea	-	12.7	-	15	-	191	-	5	-	17	-	85	-	4	-	18	-	72
		Pumpkin	-	12.7	-	50	-	635	-	5	-	53	-	265	-	4	-	54	-	216
		Colocassia	-	12.7	-	35	-	445	-	5	-	36	-	180	-	4	-	38	-	152
		Cucumber	-	12.7	-	35	-	445	-	5	-	36	-	180	-	4	-	38	-	152
		Total		133.2		265		3270		55		288		1440		44		305		1220

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

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

Irri. – Irrigated Rf – Rainfed

1	2	3	4	5			6	,						7					:	8		
							Pre-p	roject					Mid	-term					Post-p	orojec	t	
	States	Districts	of Projects	Name of crops		rea a)	Yi (Qtl)	rage eld) per a.	To Proc Q (Q	n		rea 1a)	Aver Yie per (Q	eld ha	To Produ (Q	iction		rea a)	Aver Yie per (Q	eld ha	To Produ (Q	iction
SI	of S	the]	Pr		Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.
No.			of	Cabbage	-	-	-	-	-	-	3	-	10	-	30	-	5	-	15	-	75	
	me	s of	ne	Knol khol	-	-	-	-	-	-	4	-	90	-	360	-	6	-	95	-	570	
	Names	me	Name	Mustard	-	-	-	-	-	-	3	-	8	-	24	-	5	-	10	-	50	
		Names	F -1	Raddish	-	-	-	-	-	-	4	-	80	-	320	-	6	-	86	-	516	
				Cauliflower	-	-	-	-	-	-	5	-	10	-	50	-	7	-	57	-	399	
	Meghalay a	South Garo Hills.	Total for the District																			

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

* 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				6						7					8			
							Pre-p	roject					Mid	-term				•	Post-p	roject		
Sl No.	Names of States	Names of the Districts	Name of Projects	Name of crops		Area (ha)	Yi	rage eld) per a.	Proc	otal luctio n Qtl)		rea ha)	-	0	Tot Produ n (Qt	ictio	Are (ha		Aver Yie per (Q	eld ha		tal action ptl)
					Ir ri	Rf.	Irri	Rf.	Irri	Rf.	Ir ri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.
	Meghalaya	South	SGH-	Maize		12.7		6		76.2		3		7		21		3		8		24
		Garo Hills	IWMP I																			
		District																				
			Total																			
			for the																			
			District																			

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

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

Irri. – Irrigated Rf – Rainfed

Table 7.6.4 Increase/ Decrease in area under fodder: Bugi

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
South Garo Hills District	SGH-IWMP I	5yrs(2009-10 to 2013-14)	PIA, Soil & Water Conservation Department	Nil	Nil	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: Bugi

1	2	3		4			5	
			Existi	ing area tree c	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
South Garo Hills District	SGH- IWMP I	5yrs	LULC Map, NESAC, Umiam	2005-06	180	55	55	55

* 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: Bugi

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
South Garo Hills District	SGH-IWMP I	5yrs	LULC Map, NESAC, Umiam	2005-06	Nil	126.6	126.6	126.6

* 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 fue	l-wood: Bugi
--	--------------

1	2	3		4		5					
			Existing a	area under fo	odder (ha)	Α	Achievement (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			
South Garo Hills District	SGH-IWMP I	-	-	-	-	-	-	-			

* 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: Bugi

1 2		3		4			5			6		7
Names of the Name of		T	Pre-project			Mid-term				Demola		
Districts	Projects	Type of Animal	No.	Yield	Income	No.	Yield	Income	No.	Yield	Income	Remarks
		Cattle	34	1632 Kg	2.44 lakh	38	1824 kg	2.736 lakh	45	2160	3.24	
South Garo	SGH-	Poultry	204	183.6 kg	0.23868 lakh	215	193.5 kg	0.2515 lakh	260	234	0.342	
Hills District	IWMP I	Piggery	47	1128 kg	1.8048 lakh	51	1224 kg	1.95 lakh	60	1440	2.304	
	Total for all 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 Rs.):

* 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.

1	2	3	4		5			6	7					8					
Distric	Fund require		Fund required	Sources of funding (Rs.)			Actual Expenditur	No. of beneficiaries trained				ned	No. of beneficiaries taking up activity						
t		Name of activity	tor the	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	
South Garo	SG H-	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	
Hills District	IW MP I																		

(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: Bugi

	9	10		-	11					
No of none	and amplayed			Impact of livelih	noods programn	ne				
No. of persons employed indirectly in the activity		Annual increase	Mig	ration	Development	of backward-	Any other			
multecuy	in the activity	in income due to	(No. of be	eneficiaries)	forward	information				
Total	Grand Total (8+9)	activity (Rs.)	Pre-project	Post-project	Pre-project Post-projec		(pl. Specify)			
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil			

1	2	3	4		5			6			7		8									
									Fund require	Sources of funding (Rs.) in Lakhs				Actual	No. of farmers trained				No. of farmers taking up activity			
District	Project	Name of activity	d for the activity (Rs.) in lakhs	Project Fund	Beneficiar y	Othe rs (pl. specif y)	Total	(Rs.)	S F	MF	LF	Total	S F	MF	LF	Total						
		1.Pisciculture	1.659	1.58	0.079	-	1.659	1.58	-	60	-	60	-	10	-	10						
ict		2.Rubber	15.6805	14.9305	0.75		15.6805	14.9305		80		80		80		80						
District	Ι	3.Carpentry	0.240	0.240	-	-	0.240	0.240	-	25	-	25	-	5	-	5						
	WMP -]	4.Kitchen Gardening	0.525	0.5	0.025	-	0.525	0.5	-	60	-	60	-	25	-	25						
South Garo Hills	SGH-IW																					

Table 7.7.4 Details of other livelihoods created for farmers: Bugi

* 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 nors	and amplayed			Impact of livelih	ne				
No. of persons employed indirectly in the activity		Annual increase in income due to	0	ration eneficiaries)	-	of backward- linkages	Any other information (pl. Specify)		
Total	Grand Total (8+9)	activity (Rs.)	Pre-project	Post-project	Pre-project	Post-project	(pr. specny)		
(i) 20	30	35,000	-	-	-	-	-		
(ii) 70	150	60,000	-	-	-	-	-		
(iii) 10	15	35,000	-	-	-	-	-		
(iv) 20	45	25,000					-		

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			
South Garo	SGH-	(i) Seed certification	-	-	-
Hills District	IWMP I	(ii) Seed supply system	-	-	-
		(iii) Fertilizer supply system	-	-	-
		(iv) Pesticide supply system	-	-	-
		(v) Credit institutions	-	1	2
		(vi) Water supply	-	-	-
		(vii) Extension services	-	2	5
		(viii) Nurseries	-	1	2
		(ix) Tools/machinery suppliers	-	-	-
		(x) Price Support system	-	-	-
		(xi) Labour	-	-	-
		(xii) Any other (please specify)	-	-	-
		(A) Forward linkages			
		(i) Harvesting/threshing machinery	-	-	-
		(ii) Storage (including cold storage)	-	-	-
		(iii) Road network	-	-	-
		(iv) Transport facilities	-	-	-
		(v) Markets / Mandis	-	-	-
		(vi) Agro and other Industries	-	-	-
		(vii) Milk and other collection centres	-	-	-
		(vI) Labour	-	-	-
		(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.

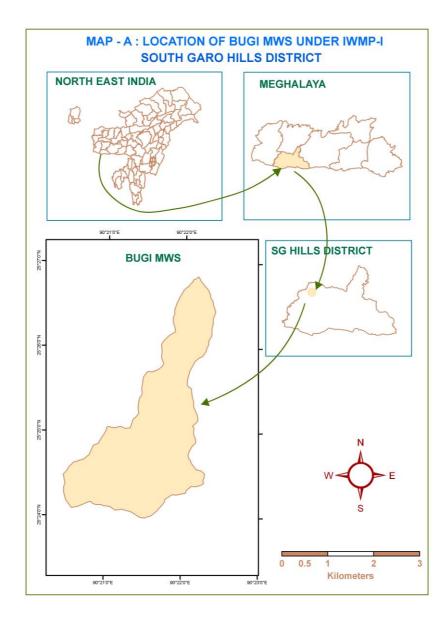
Table 7.9 Abstract of outcomes: Bugi

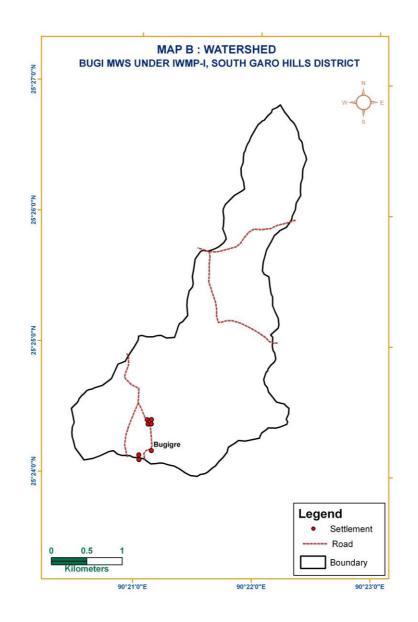
1	2		3	4	5	6	7
Sl. No.	State		Item	Unit	Pre-project Status	Post-project Status	Remarks
		Sta	tus of water table	Nil	Very poor - poor	Good	
		Gro	ound water structures repaired/		-	13 nos.	
			ivenated				
			ality of drinking water		Moderate potable	Improved	
		Ava	ailability of drinking water		Insufficient	Sufficient	
		Inc	rease in irrigation potential		-	-	
		Cha	ange in cropping/ land use pattern		-	-	
		Are	ea under agricultural crop				
		i	Area under single crop	Ha.	40	50	
		ii	Area under double crop		-	-	
		IArea under multiple cropNet increase in crop production area			310	100	
				Ha.		50	
		Inc	rease in area under vegetation	Ha.	180	235	
		Inc	rease in area under horticulture	Ha.	-	126.6	
		Inc	rease in area under fuel & fodder	Ha.	-	-	
			rease in milk production	Litres	-	-	-
		No.	. of SHGs	Nos.	-	10	
		Inc	rease in no. of livelihoods		-	24	
		Inc	rease in income	Rs in	0.25 - 0.35	0.35 - 0.45	
				lakhs			
			gration	Nos.	-	-	
			of school going children	Nos.	20	40	
		SH	G Federations formed	Nos.	-	-	
		Credit linkage with banks Resource use agreements		Nos.	-	5	
				Nos.	Nil	2	
		WI	DF collection & management		Nil	1.875 Lakhs	Used for repairing works
		Sur	nmary of lessons learnt	May be	attached as a separat	e file	·

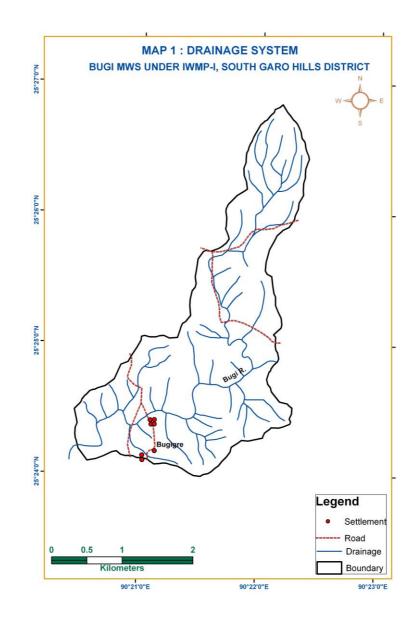
1	2	3	4	5	6	7	8	9	10
District	Name of project	Name of WC	Name of structure/ activity	Estimated cost (Rs.)	Expected quantifiable benefits (Rs.)	Expenditure incurred (Rs.)	ncurred quantifiable		IRR
South Garo Hills District	SGH- IWMP I	Bugi (IWMP-I)	As per Treatment Plan	58.5 lakhs	87.75 lakhs	58.5 lakhs	-	1 : 1.5	-

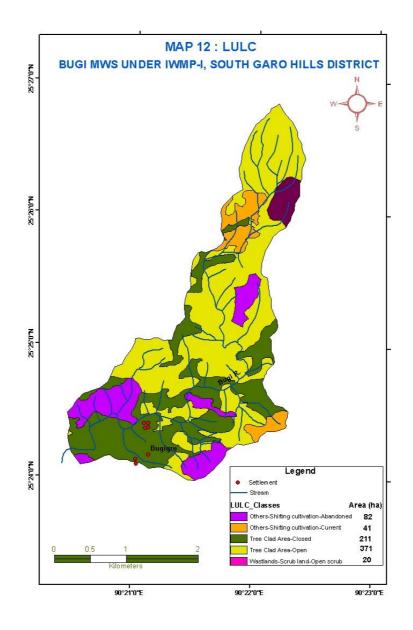
* from column no. 2, total no. of States implementing the programme, from column no. 3, total no. of Districts; from Column no. 4, no. of projects, from column no. 5, no. of WCs, from column no. 6, no. of structures/ activities, from column no. 7 to 10, category-wise# totals, may be mentioned at the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

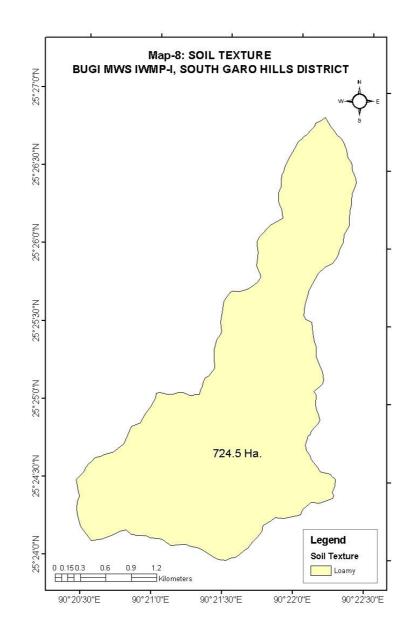
[#] B:C ratio more than 1 – cost effective less than 1 – Not cost effective ANNEXURE I MAPS

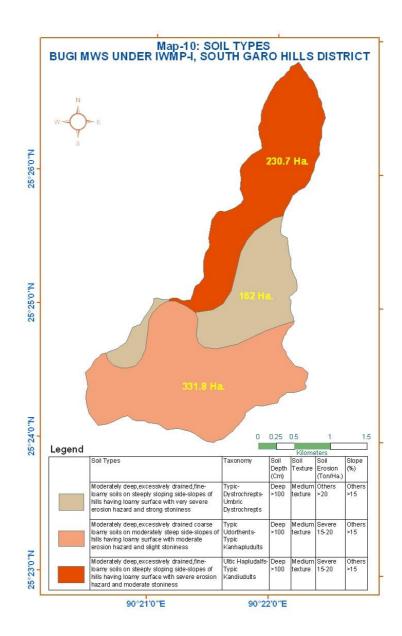


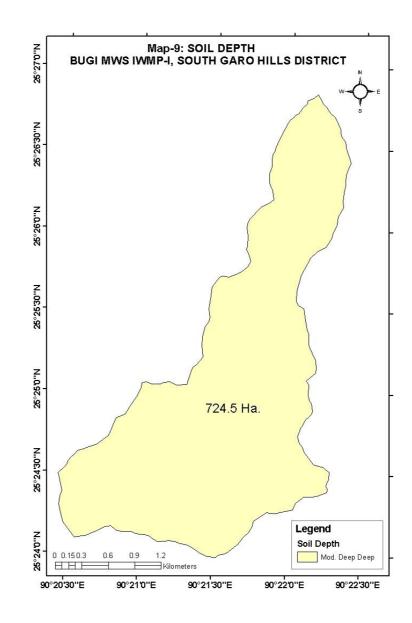


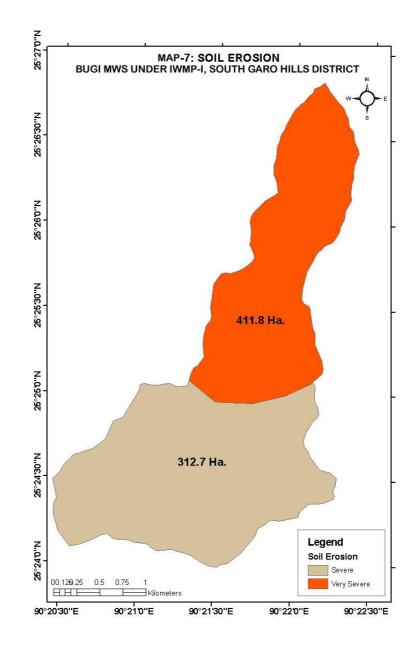


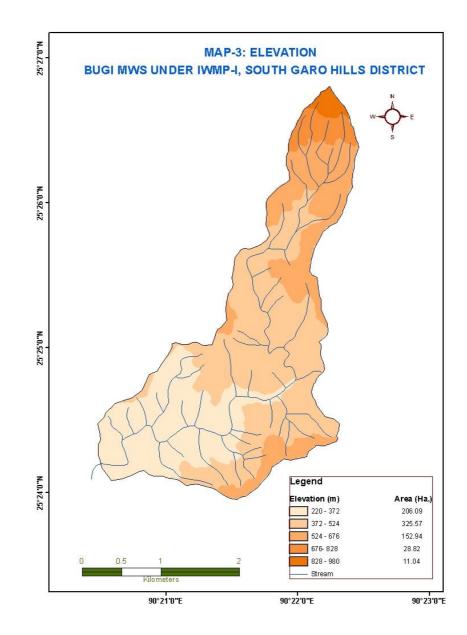


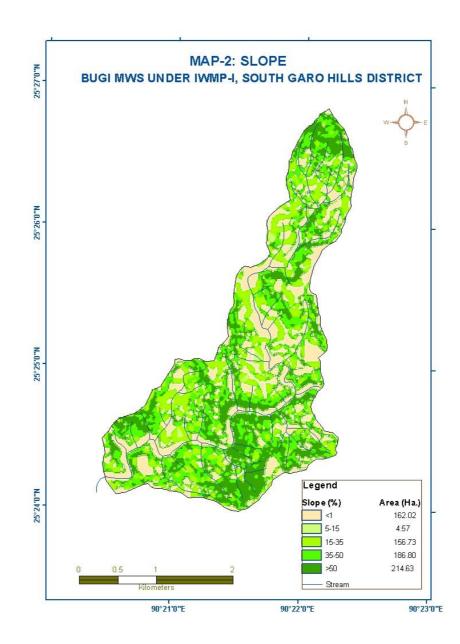


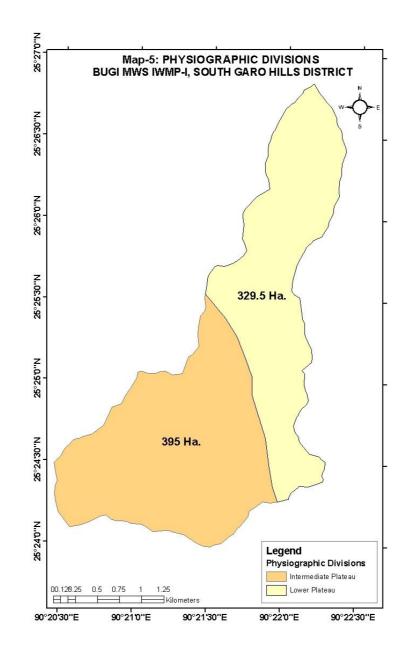


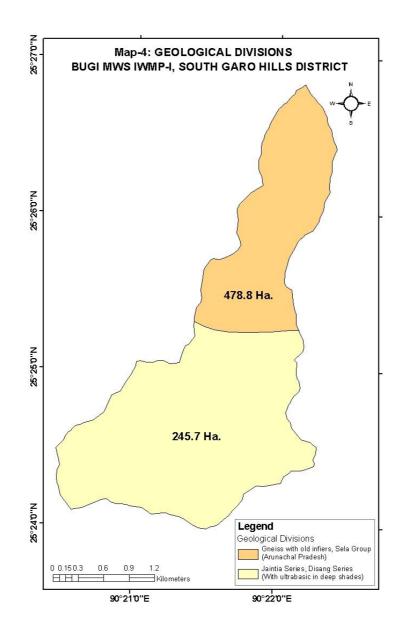


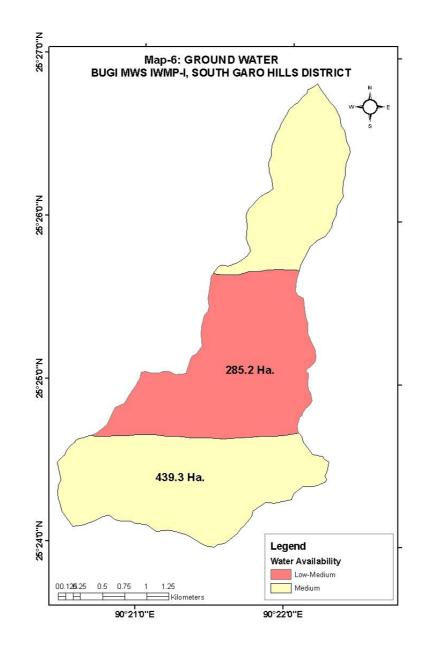


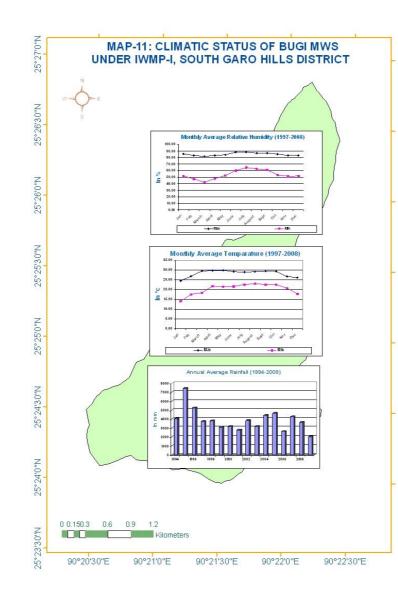


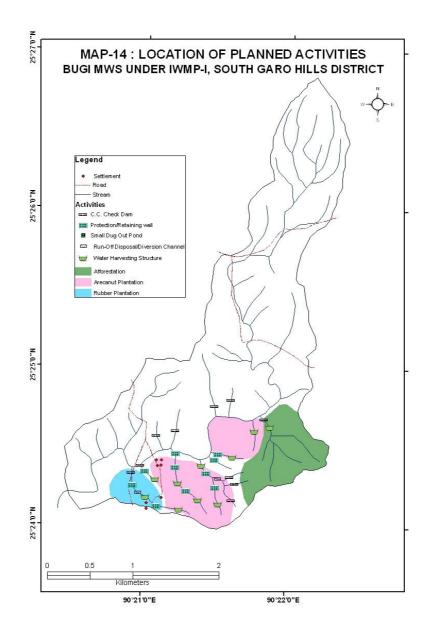












ANNEXURE II

SOCIO-ECONOMIC SURVEY DETAILS

SOCIO ECONOMIC SURVEY UNDER I.W.M.P – I, SOUTH GARO HILLS, DISTRICT.

NAME OF VILLAGE : BUGI GRE NAME OF C & RD BLOCK: CHOKPOT C & RD BLOCK.

Sl.						Land holding	Crops		Live stock			
No.	Name of the Head of the family	Male	Female	Total	Occupation	per family	Grows	Cow	Pig	Goatry	Poultry	Annual
						(Area in Ha.)			-			income
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Shri. Alep M Sangma	3	2	5	Farmer	2.00 ha.	Arecanut	6	8	-	20	90,000
2	Shri. Willingston M. Sangma	5	1	6	دد	1.50 ha.	"	-	1	-	9	60,000
3	Shri. Dinen T Sangma	4	3	7	دد	0.90 ha.	دد	1	2	-	10	20,000
4	Shri. Tobias M. Sangma	1	2	3	دد	1.00 ha.	"	-	-	-	9	40,000
5	Shri. Nasen Ch. Marak	4	2	6	دد	0.60 ha.	"	-	1	-	2	20,000
6	Shri. Nanggan Ch. Marak	3	2	5	"	0.80 ha.	"	-	5	-	8	19,000
7	Shri. Pitor Ch. Marak	1	1	2	"	1.00 ha.	"	1	-	-	10	25,000
8	Shri. Rantos Ch. Marak	4	2	6	دد	1.00 ha.	"	2	1	-	7	24,000
9	Shri. Disin M. Sangma	2	2	4	دد	1.50 ha.	"	1	2	-	10	25,000
10	Shri. Juges M. Sangma	6	4	10	دد	0.90 ha.	دد	-	2	-	4	20,000
11	Shri. Malen ch. Marak	7	2	9	دد	0.70 ha.	"	3	2	-	15	17,000
12	Shri. Brithson M. Sangma	2	1	3	دد	0.50 ha.	"	6	8	-	20	20,000
13	Shri. Gunang Ch. Marak	3	2	5	"	1.00 ha.	"	-	1	-	9	30,000
14	Shri. Wilnan Ch Marak	3	3	6	"	1.00 ha.	"	1	2	-	10	25,000
15	Shri. Barnabas Ch. Marak	1	3	4	دد	1.50 ha.	"	-	-	-	9	25,000
16	Shri. Walson T. Sangma	3	2	5	دد	0.60 ha.	"	-	1	-	2	15,000
17	Shri. Spin D. Sangma	1	3	4	دد	0.90 ha.	"	-	5	-	8	14,000
18	Shri. Junen T. Sangma	4	2	6	دد	0.80 ha.	دد	1	-	-	10	15,000
19	Shri. Anton Ch. Marak	2	2	4	ζζ	1.00 ha.	دد	2	1	-	7	20,000
20	Shri. Jusen D. Sangma	5	4	9	.د	1.00 ha.	دد	1	2	-	10	25,000
21	Shri. Janen Ch. Marak	3	4	7	"	1.00 ha.	"	-	2	-	4	26,000
22	Shri. Insparens Ch. Marak	4	2	6		0.90 ha.	دد	1	-	-	3	24,000
23	Shri. Wisin R. Marak	2	2	4	ςς	0.80 ha.	دد	3	1	-	1	18,000

24	Shri. Pilip M. Sangma	4	2	6	دد	0.60 ha.	"	5	-	-	7	15,000
	TOTAL:	77	55	132				34	47		204	

ANNEXURE I

COST ESTIMATES

ESTIMATE FOR THE CONSTRUCTION OF CEMENT CONCRETE RETAINING WALL AS PER SCHEDULED OF RATES FOR ROADS AND BRIDGES AND E&D WORKS FOR THE YEAR 2007-2008 IN TURA AND WILLIAMNAGAR CIRCLE

1/134 Excavation of structures (earthwork in excavation of foundation of Structures as per drawing and technical specification including setting out etc

1 x 17 x 0.5 x 1.25 \pm 10.625 m³ @ 34 /m³ \pm Rs 361.25

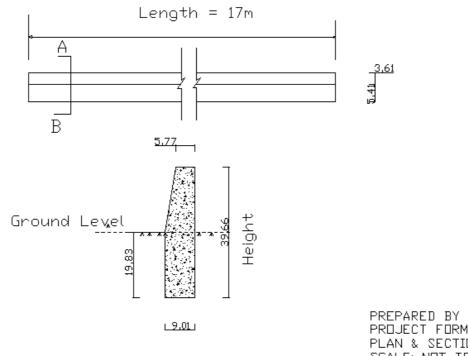
2/137 Plain Cement Concrete 1:3:6 nominal mixed in foundation with crushed stone aggregates 40 mm nominal size mechanically mixed etc including curing for 14 days

1	х	17	х	0.5	х	1.25	=	10.625	m³
1	х	17	х	<u>0.5+0.30</u>	х	2.061	=	<u>14.015</u>	m³
				2		Total	=	24.64	m³
@	3232	/m³					=	Rs	79,636.48

Grand total	=	Rs	79,997.73
	Say	Rs	80,000

(Rupees Eighty Thousand thousand only)

PLAN & SECTION OF C.C RETAINING WALL



Section on A-B

PREPARED BY PROJECT FORMULATION CELL SHILLONG PLAN & SECTION OF C.C RETAINING WALL SCALE: NOT TO SCALE DIMENSION IN METRE

ESTIMATE FOR THE CONSTRUCTION OF CEMENT CONCRETE CHECK DAM AS PER SCHEDULED OF RATES FOR ROADS AND BRIDGES AND E&D WORKS FOR THE YEAR 2007-08 IN TURA AND WILLIAMNAGAR CIRCLE

1/62(i) Earthwork in excavation for structures (construction of retaining walls in cement concrete 1:5 as per drawing and technical specifications).

	Dam	7	х	0.9	х	1			=	6.3	m³	
	Curtain Wall	7	х	0.15	х	0.4			=	0.42	m³	
	Apron	7	х	3	х	0.4			=	8.4	m³	
	Wing wall	2	х	3.5	х	0.9	х	1.1	=	<u>6.93</u>	m³	
										22.05	m³	
	(<u>a</u>	72	/m³					=	Rs		1587.6
2/97.	-		-			•			stone	e boulder of size	15cr	n size
	and 6cm wide	as pe	er drav	ving and t	echr	nical specific	ation	S.				
	Apron	7	х	3	х	0.25			=	5.25	m³	
	@ {	884	/m³						=	Rs		4641
3/137	Plain Cement	Conc	rete ir	n proporti	on 1	:3:6 nominal	mixe	ed in fo	ound	ation with		
	crushed stone	aggr	egates	5 40mm m	lecha	anically mixe	d etc	•				
	Wing Wall	2	Х	3	.5 :	x 0.9	х	0.1	=	0.63	m³	
	Dam	1	х		7	x 1.1	х	0.1	=	0.77	m³	
		1	х		7 2	x 1.1	х	1	=	7.7	m³	
		7	х	<u>0.4 +0</u>	<u>.9</u>	x <u>1.7</u>			=	7.73	m³	
				2								

	2	x 4	х	0.6 x	0.3 =	1.44	m³
Apron	7		x	0.15	=	3.15	
Curtain Wall	7 :	x 0.15	х	0.55	=	0.5775	m³
C.C Channel	1 :	x 8.48	х	0.8 x	0.1 =	0.6784	m³
	2	x 8.48	х	0.8 x	0.1 =	<u>1.3568</u> 24.0327	<u>m³</u> m³
	@	3232	m³		=		77673.6864

4/62(iii) Construction of retaining walls /breast walls in cement mortar 1:5 as per drawing and technical specifications.

Wing Wall	2	х	3.5	х	0.9	х	1	=	6.3	m³
	2 x	3.5 x		<u>0.4 +</u>		х	1.7	=	<u>7.74</u>	m³
				<u>0.9</u>						
				2					14.04	m³
@	2263	m³						=	Rs	31772.52

5/176 Plastering with cement mortar 1:3 on brick work in sub structure as per technical specification.

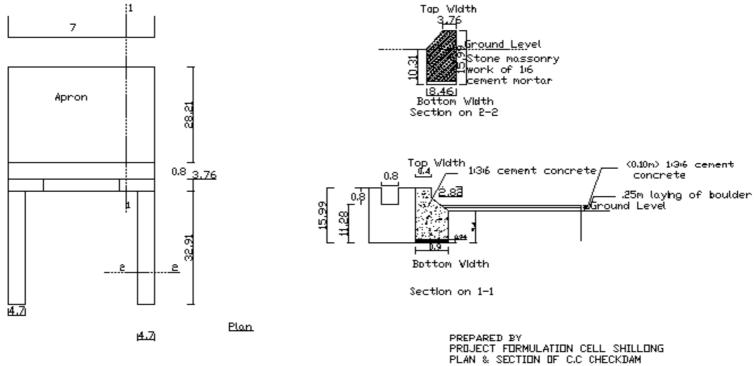
Dam							
	2 x	7	х	1.7	=	23.8	m³
	7 x	4	х	0.3	=	8.4	m³
	2 x	0.6	х	0.3	=	0.36	m³
	1 x	5	х	0.6	=	3	m³
C.C	2 x	8.48	х	0.8	=	13.568	m³

Channel	1	x	8.48	х	0.8	=	<u>6.784</u> 55.912	
@	74	m³				=	Rs	4137.488

6/134 Excavation of structures (earthwork in excavation of foundation of structures as per drawing and technical specification including setting out and construction of shoring etc.

	8.48	Х	0.8	Х	().8			=	5.4272	m³
@	34	m³					=	Rs	185		
								Total	=	Rs	1,19,996.82
								say		Rs	1,20,000
			(Rupees	s one l	lakh twe	enty	tho	usanc	l) only		

PLAN AND SECTION OF CEMENT CONCRETE CHECK DAM



SCALE) NOT TO SCALE DIMENSION IN METRE

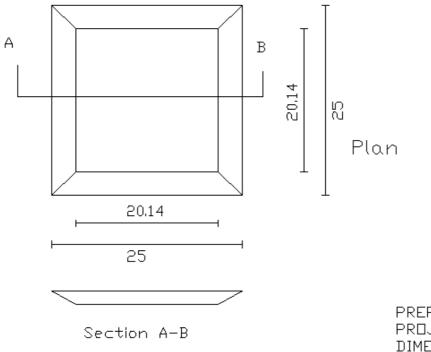
ESTIMATE FOR THE CONSTRUCTION OF WATER HARVESTING STRUCTURE RATES ARE AS PER P.W.D SCHEDULED OF RATES FOR ROADS BRIDGES AND E & D WORKS FOR THE YEAR 2007-08 FOR TURA AND WILLIAMNAGAR CIRCLE

1/3.	Cleani	ng and r	remova	l of rubbi	sh upto	o a distance c	of 30	m outside the periphery of the area
	Area	=		0.0813	На			
	@	3600	/Ha			=	Rs	292.68

2/3(a) Eatrhwork in excavation to the proper grade including light, dressing providing cambering and super elevation as directed and removal of spoils upto 30m lead and all lift

	1no	<u>(25 x 25)X (2</u>	<u>0.14 x 20.14</u>	x 2	=		1030.619	/m³
)	2					
@	72	/m³		=		Rs	74204.57	/m³
				Total	=		Rs	74497.248
				Say			Rs	75,000/-
			(Rupees Se	venty five	thousa	and)O	nly	

PLAN AND SECTION FOR WATER HARVESTING STRUCTURE



PREPARED BY PROJECT FORMULATION CELL SHILLONG DIMENSION IN METRE SCALE ' NOT TO SCALE

ESTIMATE FOR THE CONSTRUCTION OF CEMENT CONCRETE DIVERSION CHANNEL AS PER SCHEDULED OF RATES FOR ROADS , BRIDGES E & D WORKS FOR THE YEAR 2007-08 IN TURA AND WILLIAMNAGAR CIRCLE

1/134. Excavation for structures (earthwork in excavation of foundation of structures as per drawing and technical specifications, including setting out etc.

- 2/103. Providing and laying of dry rubble flooring completed as per drawing and technical specifications.
 - 1 x 48.24 x 1 = 48.24 m^3
 - Rs. 852 /m3 Rs. 41,100.48
- 3/141 Plain /reinforced cement concrete in open foundation as per drawing and technical specifications

1 x	48.24 x	1 x	0.1	=	4.824 m ³
2 x	48.24 x	1.22 x	0.1	=	11.77 m ³
					16.59 m ³

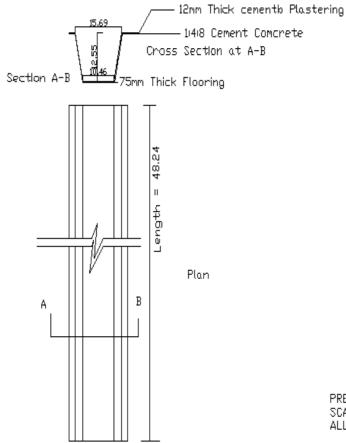
Rs.	3630 /m ³	Rs.	60,238.25

4/2.9(a) Plastering with cement mortar (1:3) on brick work in super structure as per drawing etc..

2	х	48.24 x	1.22				=	117.7			
				Rs.	74	/m3				Rs.	8,710.21
								Total =	=	Rs.	1,12,509.19
								Say		Rs.	1,12,500.00

(Rupees one lakh twelve thousand and five hundred thousand) only.

PLAN AND SECTION OF CEMENT CONCRETE DIVERSION CHANNEL



PREPARED BY PROJECT FORMULATION CELL SHILLONG SCALE + NOT TO SCALE ALL DIMENSIONS ARE IN METRES **ANNEXURE IV**

MoA, SUB COMMITTEE DETAILS ETC.

FORMATION OF WATERSHED DEVELOPMENT TEAM (WDT)

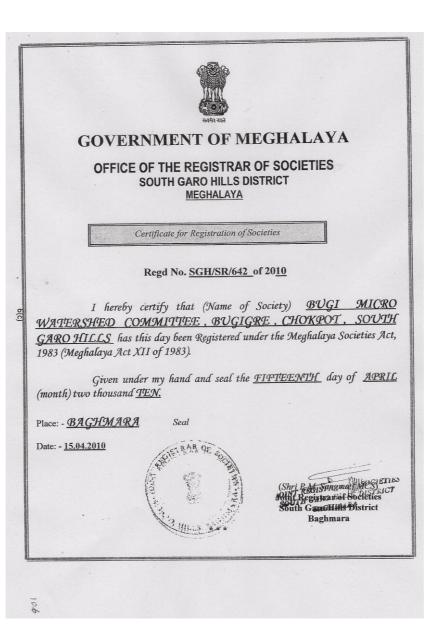
The P.I.A (Project Implementing Agency) Baghmara Soil & Water Conservation (C.C) Division, South Garo Hills has constituted 3(three) W.D.T Members (Watershed Development Team) for the smooth functioning of the project on 20/12/2009 as per the Common Guidelines for Watershed Development Projects.

Names of Districts	Names of projects	Names of WDT members	M/F	Age	Qualification / Experience	Description of professional training
South	SGH-	Shri. Kai Raksal M	Male	28 yrs	Bachelor of Computer	Bachelor of Computer
Garo Hills	IWMP-I	Sangma			Application	Application(B.C.A)
		Miss Ponobi R Marak	Female	26 yrs	Bachelor of Science in Forestry	Bachelor of Science in Forestry
		Shri. Bilcheng K Marak	Male	23 yrs	Diploma in Civil Engineering	Diploma in Civil Engineering

FORMATION OF WATERSHED COMMITTEE AND THE REGISTRATION UNDER SOCIETY REGISTRATION ACT.

The Bugi Micro Watershed under Integrated Watershed Management Programme (IWMP- I) has constituted Watershed Committee (W.C) for smooth implementation of the Watershed Project with the Technical support of the Watershed Development Team (WDT) in the Village and it has been Registered under Society Registration Act, 1860 on 15/04/2010. The people of Bugigre Village unanimously selected the Chairman and the Members of the Watershed Committee in the meeting from the village itself and the Secretary from the Department of Soil & Water Conservation , Shri Abel Sangma (Beat Officer) Baghmara Soil & Water Conservation (C.C) Division . The Watershed Committee of Bugi Micro Watershed comprises of 11 members.

Names of the Districts	Names of projects	Names of Watershed Committee	Date of Registration as a Society (dd/mm/ yyyy)	Designation	M/F	ST	Educational qualification
South Garo Hills	SGH-	1. Shri Alep M Sangma		Chairman	М	ST	Class VI
	IWMP-I	2. Shri Abel Sangma		Secretary	М	ST	Matriculate
		3. Shri Kai Raksal Sangma		Member	М	ST	B.C.A
		4. Shri Ringnang Marak		Member	М	ST	Class VIII
		5. Shri Wesin Marak	15.04.2010	Member	М	ST	Class VII
		6. Shri Wilnan Marak	15-04-2010	Member	М	ST	ClassVI
		7. Shri Alepson Sangma		Member	М	ST	Class VII
		8. Shri Malem Marak		Member	М	ST	Class V
		9. Shri Spinton Marak		Member	М	ST	Class VI
		10. Smti. Aribina Sangma		Member	F	ST	Class VII
		11. Smti. Sano Ch Marak		Member	F	ST	Class V



AGREEMENT FOR CONVERGENCE OF SCHEME

The Village Employment Council (VEC) and the Communities of Bugigre Village, Chokpot Block, South Garo Hills, Meghalaya have no objection to the Convergence of NREGS with Intergrated Watershed Management Project (IWMP) at Bugigre village under Bugigre Micro- Watershed, SGH-IWMP-I being implemented by Baghmara Soil & Water Conservation (C.C) Division, South Garo Hills.

We have also agreed and commited to allocate the Funds for wages as well as material components under NREGS in our Annual Work Plan for various Soil & Water Conservation Works which shall be taken up during the Project Period (2010-11 to 2013-14). The wage and material component under NREGS shall be utilised for following works:

1. C.C Check Dam. 2. Link Road 47 3. Rubber Plantation. 4. Black Pepper. 5. Protection Wall. 6. Dug-Out Pond Barmabach the marak. Alepson M Sangeno. V.E.C. MARCS, South Garo Hills Secretary President Village Employment Council Village Employment Council Bugigre Bugigre Chokpot Block, SGH. Chokpot Block, SGH. Countersigned. thid Departy Committeetone. South Garo Bills. Baghmara, 107