

DETAILED PROJECT REPORT

RONGAK WATERSHED

EAST GARO HILLS, INTEGRATED WATERSHED MANAGEMENT PROGRAMME

EGH – IWMP –IX

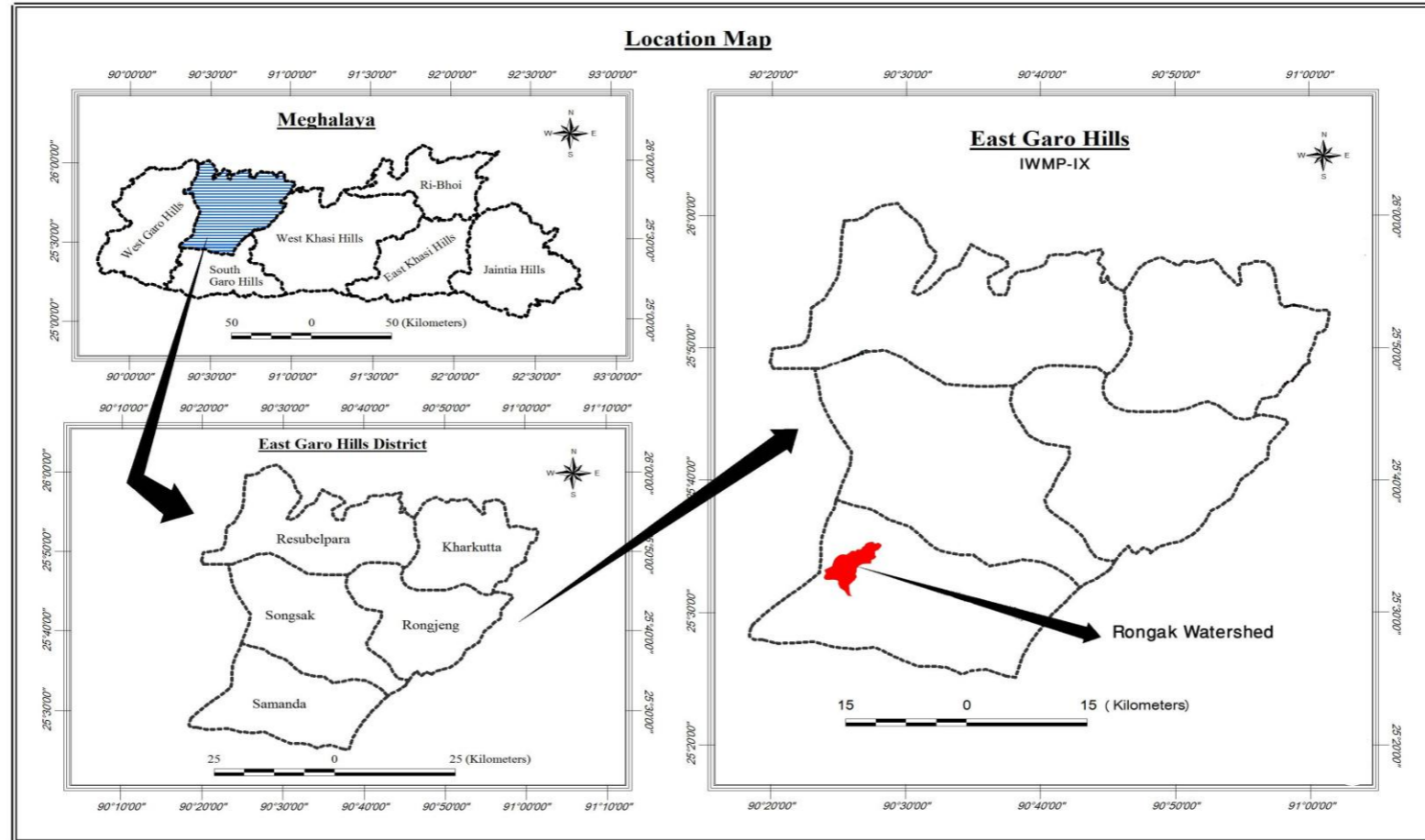
2012– 2013

SAMANDA C.& R.D. BLOCK

EAST GARO HILLS DISTRICT

MEGHALAYA

LOCATION MAP



S U M M A R Y

Name of the State	:	Meghalaya.
Name of the District	:	East Garo Hills District.
Name of the C&RD Block	:	Samanda C&RD Block.
Name of the Villages	:	1.Samanda Mediprabgre, 2.Rongreng Nokwatgre and 3.Sokkadam Karika
Name of the Project	:	EGH – IWMP – IX.
Total Geographical Area	:	2156 Ha.
Total Treatment Area	:	2000 Ha.
Total Project Cost	:	300 lakhs.
Project Duration	:	5 Years.
Project Implementing Agency	:	Simsanggre Soil & Water Conservation Division, Williamnagar.

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CHAPTER I
INTRODUCTION AND BACKGROUND

CHAPTER I

INTRODUCTION AND BACKGROUND

1.1 Project Background:

The East Garo Hills IWMP- IX project is located in Samanda C&RD Block, East Garo Hills District of Meghalaya. Consisting of a single micro-watershed, the project area is drained by the Samanda Mediprabgre, Rongreng Nokwargre and Sökkadam Karika Stream and its tributaries flowing in an north to south direction. The total area is 2156 Ha. with 2000 ha to be treated under the Integrated Watershed Management Programme (IWMP).

The Project area (Rongak Watershed) is located at a distance of about 10 km respectively from Samanda Block Head Quarter and about 25 km from Williamnagar the District Headquarter. A total of 3 (three) villages are covered under the project. These are –

1. Samanda Mediprabgre
2. Rongreng Nokwatgre
3. Sökkadam Karika

1.2 Micro-watershed Information:

The micro-watershed code is 3C1A6b4b as codified by the North East Space Application Centre (NESAC). The total area of the Micro-watershed is 2156 Ha. with 2000 hectares to be treated under the Integrated Watershed Management Programme (IWMP).

1.3 Need and Scope for Watershed Development:

The micro-watershed 3C1A6b4b falls under the High Priority category as per the prioritization of watersheds by the North East Space Application Centre (NESAC). Located on the slopes of the East Garo Hills Plateau the 2 villages have no road connectivity but under the construction. The farmers are all marginal and 24 households are below the poverty line, which is 148 of the total households. Jhum cultivation is practiced by most of the inhabitants of these villages on the slopes.

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

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

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

- i. MGNREGS – Convergence sheet Enclosed

CHAPTER II

BASIC INFORMATION OF THE PROJECT AREA

CHAPTER II

BASIC INFORMATION OF THE PROJECT AREA

2.1 Location:

The Project area is located within the area of Aking Land under Samanda C&RD Block of Williamnagar, East Garo Hills District. It is situated at a distance of about 10 km from Samanda block Head Quarter and about 25 km from Williamnagar the District Headquarter. The geographical location of Rongak Watershed is between 25⁰34'30" to 25⁰38'15" Latitude and 90⁰29'15" to 90⁰34'30" Longitude. There are three villages within the Watershed which are as follows –

1. Samanda Mediprabgre
2. Rongreng Nokwatgre
3. Sokkadam Karika

Out of the 3 (three) villages except Samanda Mediprabgre, there is no Motorable road. However road construction works are going under MNREGS in some of the villages.

2.2 Physiography:

The physiography of the micro-watersheds is highly undulating. The altitude ranges from a minimum of 250m to a height of 440m above mean sea level. In the lower reaches (valley lands) the slope ranges from 0 to 85%.

Table 2.1: Physiographic details

Elevation (metres)	Slope Range (%)	Order of watershed Sub/Micro-watershed	Major streams	Topography
250-440m	0% -85%	Micro Watershed	Rongak	Moderately sloping

Drainage: The major streams draining the micro-watershed are the Rongak which is a 3rd order stream flowing in a North-South direction.

The slopes of the micro-watershed are dissected by numerous small tributaries flowing to the Rongak.

2.3 Soil: Soil Texture is medium throughout the watershed. Soil depths are quite deep. Soils are permeable and generally acidic in nature. Owing to 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. Soil texture is loamy.

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

<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>	<i>9</i>			
Sl. No.	Names of State	Names of District	Names of Projects	Cause	Types of erosion	Area affected (ha)	Run-off (mm/year)	Average soil loss (Tonnes/ ha/ year)			
1	Meghalaya	East Garo Hills	East Garo Hills IWMP-IX	Water erosion:					2000	2700- 3200	10.50 - 32.50
				a	Sheet	}					
				b	Rill						
				c	Gully						
				Sub total							
Wind erosion						Nil	Nil	Nil			

2.4 Climate: The area in the foothills or low lying areas and mid-slopes are hot in summer and remain warm throughout the winter. The area on the higher reaches is warm during summer and cold during winter. The average annual rainfall is 3355 mm.

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

<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>		<i>8</i>	<i>9</i>	
Sl. No.	Name of State	Name of the Agro-climatic zone	Area (in Ha.)	Names of the Districts	Names of the Projects	Major soil types		Average annual rainfall in mm (preceding 5 years' average)	Major crops	
						a) Type	b) Area (ha)		a) Name	b) Area (ha)
1	Meghalaya	Central Hypothermic Plateau 62-560m	2551 Ha.	East Garo Hills	East Garo Hills IWMP –IX	Loam, Clay Loam.	2156 Ha	3355 mm	Betel nut	-
									Betel leaf	-
									Oranges	-
									Paddy	420 Ha.
									Ginger	111 Ha.
									Black pepper	-
									Litchi	-
									Banana	-
Pineapple	-									
								Total	-	531 Ha.

2.5 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 2 years. The principal agricultural crops grown of the jhum fields are rice, millet, maize, ginger, yam and vegetables. Fruit crops are well suited in the lower reaches which include banana, pineapple and jackfruit. The slopes of the Rongak are also very suitable for betel nut, betel leaf etc. which contribute to the income of the people.

Table 2.4: Crop yield and production

Crops	Area (ha)	Average Yield (Qtl) per ha.	Total Production (Qtl.)
Soyabean			
Paddy	420	19.36	6680
Millet			
Yam			
Ginger	111	56	6216
Tapioca			
Betel nut			
Betel leaf			
Black Pepper			
Oranges			
Bay Leaf			

2.6 Natural Vegetation: The tree species common to the watershed area includes – Shorea robusta, Schima walichii, Terminalia belerica, Emblica officinalis, Bahunia variegata Duabanga spp. and Ficus spp. However, due to jhum cultivation the forest cover of the area has reduced considerably.

2.7 Socio-Economic Profile: Economically, the area is perhaps one of 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 148Nos. with a total population of 516, of which 279 are male and 237 are female. The detail of the household in each of the villages in the watershed project is as follows:

1. Samanda Mediprabgre - 58 Nos.
2. Rongreng Nokwatgre - 65 Nos.
3. Sokkadam Karika - 25 Nos.

TOTAL 148 Nos.

Infrastructure facilities :

2.1.1 *Roads:* All the villages within the Project Area are connected by road.

2.1.2 *School:* there are only 3 L.P Schools & 2 Nos. U.P. Schools within the Project Area run either by the Mission or by the Government.

2.1.3 *Electricity :* There is no electricity connection to the villages.

2.1.4 *Health :* There is CHC & PHC in the Project area. The nearest PHC is Samanda.

2.1.5 *Water Supply :* Natural stream. Drinking Water facility is not yet provided in any of the villages. The villager are getting potable water

2.1.6 *Market :* There is a weekly market held once in a week at Samanda. However, the main markets where the people sell their produce are Samanda and Williamnagar.

Table 2.5: Infrastructure Status.

<i>1</i>	<i>2</i>	<i>3</i>		<i>4</i>			
Name of District	Name of Project	Parameters:		Status			
East Garo Hills	East Garo Hills –IWMP- IX	(i)	No. of villages connected to the main road by an all-weather road.	Samanda Mediprabgre, Rongreng Nokwatgre and Sokkadam Karika			
		(ii)	No. of village provided with electricity	NIL			
		(iii)	No. of households without access to drinking water	NIL, but potable drinking water is not available.			
		(iv)	No. of educational institutions: Primary (P)/ Secondary (S)/ Higher Secondary (HS)/ Vocational institution (VI)	(P)	(S)	(HS)	(VI)
				3 Nos.	-	-	-
		(v)	No. of village with access to Primary Health Centre	Nil			
		(vi)	No. of village with access Veterinary Dispensary	Nil			
		(vii)	No. of village with access Post Office	Nil			
		(viii)	No. of village with access Banks	Nil			
		(ix)	No. of village with access Markets/ mandis	Nil			
		(x)	No. of village with access Agro-Industries	Nil			
		(xi)	Total quantity of surplus milk	Nil			
		(xii)	No. of milk collection centres (e.g. Union (U)/ Society (S)/ Private agency (PA)/ Others (O))	(U)	(S)	(PA)	(O)
				Nil	Nil	Nil	Nil
(xiii)	No. of villages with access to Aganwadi Centres	3Nos.					
(xiv)	Any other facilities with no. of villages (please specify)	Nil					

2.8 Livestock: there are only 4(four) kinds of livestock farming being farmed in the area viz. Piggery, Poultry, Cattle Rearing, & Goattery.

Table 2.6: Existing livestock population

Type of Animal	Population
Piggery	280
Poultry	2512
Cattle Rearing	662
Goattery	456
Total	3910

2.9 Land ownership: There are primarily 1(one) types of land holding system, namely Aking Land.

Table 2.7: Land Holding:

<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>		
Name of District	Name of the Project	Types of Farmer	No. of households	No. of BPL households	Land holding (ha)		
					Irrigated	Rainfed	Total
East Garo Hills	East Garo Hills – IWMP-IX	(i) Large	Nil	Nil	Nil	Nil	Nil
		(ii) Small	Nil	Nil	Nil	Nil	Nil
		(iii) Marginal	124 Nos.	Nil	Nil	390 Ha.	390 Ha.
		(iv) Landless	24 Nos.	24 Nos.	Nil	Nil	Nil
		Sub – Total :	148 Nos.	24 Nos.	Nil	390Ha.	390 Ha.

Table 2.8: Common Property Resources in the Project Area

1	2	3	4				5			
Name of District	Name of the Projects	CPR Particulars	Total Area (ha) Area owned/ In possession of				Area available for treatment (ha)			
			Pvt. Person	Govt. (specify deptt.)	PRI	Any other (Community)	Pvt. Person	Govt. (specify deptt.)	PRI	Any other (Community)
East Garo Hills	East Garo Hills – IWMP-IX	(i) Wasteland/ degraded land	-	-	-	116Ha.	-	-	-	116 Ha.
		(ii) Pastures	-	-	-	-	-	-	-	-
		(iii) Private Agriculture land	420 Ha.	-	-	-	390 Ha.	-	-	-
		(iv) Village woodlot	-	-	-	-	-	-	-	-
		(v) Forest	-	-	-	130 Ha.	-	-	-	105 Ha.
		(vi) Village Ponds/ Tanks	-	-	-	-	-	-	-	512 Ha
		(vii) Community Buildings	-	-	-	-	-	-	-	-
		(viii) Weekly Markets	-	-	-	-	-	-	-	-
		(ix) Permanent Markets	-	-	-	-	-	-	-	-
		(x) Temples/ Places of worship	-	-	-	3 Ha	-	-	-	-
		(xi) Others (Pl. specify)	-	-	-	1487Ha	-	-	-	877Ha.
			Total	420 Ha.	-	-	2156Ha.	390 Ha.	-	-

2.10 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	=	90	Ha.
b) Current Jhum	=	480	Ha.
c) Agricultural land-crop land-kharif crop	=	420	Ha.
d) Tree clad Area-close	=	130	Ha.
e) Tree clad Area-open	=	416	Ha.
f) Abandon Jhum	=	620	Ha.
Total	=	2156	Ha.

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

CHAPTER III

PROJECT PLANNING & INSTITUTION BUILDING

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PROJECT PLANNING & INSTITUTION BUILDING

3.1 Scientific Planning

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

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

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

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

3.2 Project Implementing Agency:

The PIA is the Soil & Water Conservation Territorial Division, Williamnagar, East Garo 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.

<i>1</i>	<i>2</i>	<i>3</i>	
Names of District	Names of projects	Details of PIA	
East Garo Hills	East Garo Hills – IWMP-IX	(i) Type of organization	Government
		(ii) Name of organization	Simsanggre Soil & Water Conservation (T) Division, Williamnagar.
		(iii) Designation & Address	Divisional Soil & Water Conservation Officer, Simsanggre Division, Williamnagar.
		(iv) Telephone	03658-220228
		(v) Fax	-Do-
		(vi) E-mail	dswcosimsanggre@gmail.com

3.3 Institution Building

i) Watershed Committee (WC)

The Watershed Committee of the East Garo Hills IWMP –IX was constituted with the active involvement of the villagers with strong support of the Traditional Institutions (Village Nokma/Council). The East Garo Hills IWMP –IX Watershed Committee has been registered under the Society Registration Act 1860.

Table 3.2: Details of Watershed Committees (WC):

<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>	<i>9</i>	<i>10</i>	<i>11</i>	<i>12</i>	<i>13</i>	<i>14</i>	<i>15</i>	<i>16</i>	<i>17</i>	<i>18</i>		
Names of the Districts	Names of projects	Names of WCs	Date of Registration as a Society (dd/mm/yyyy)	Designation	M/F	SC	ST	SF	MF	LF	Land-less	UG	SHG	GP	Any other	Educational Qualification	Function/s assigned#		
East Garo Hills	East Garo Hills – IWMP-IX	East Garo Hills IWMP-IX Watershed Committee		President	1 M	-	ST										A to I		
				Secretary	1 M	-	ST											-Do-	
				Member	13 M	-	ST												-Do-
				Member	3 F	-	ST												-Do-

- | | | | | |
|---|----|--|----|--|
| # | A. | PNP and PRA | B. | Planning |
| | C. | Maintenance of Accounts | D. | Signing of cheques and making payments |
| | E. | Supervision of construction activities | F. | Cost Estimation |
| | G. | Verification & Measurement | H. | Record of labour employed |
| | I. | Social Audit | J. | Any other (please specify). |

ii) Self Help Group

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

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

<i>1</i>	<i>2</i>	<i>3</i>				<i>4</i>				<i>5</i>			<i>6</i>		
Names of the District	Names of projects	Total no. of registered SHGs				No. of members				No. of SC/ST in each category			No. of BPL in each category		
		With only Men	With only Women	With both	Total	Categories	M	F	Total	M	F	Total	M	F	Total
East Garo Hills	East Garo Hills IWMP-IX	3	5	2	10	(i) Landless	14	10	24	14	10	24			
						(ii) SF									
						(iii) MF	58	66	124	58	66	124			
						(iv) LF									
TOTAL:		3	5	2	10		72	76	148	72	76	148			

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

<i>1</i>	<i>2</i>	<i>3</i>				<i>4</i>				<i>5</i>			<i>6</i>		
Names of Districts	Names of Projects	Total no. of UGs				No. of members				No. of SC/ST in each category			No. of BPL in each category		
		Men	Women	Both	Total	Categories	M	F	Total	M	F	Total	M	F	Total
East Garo Hills	East Garo Hills – IWMP-IX	77	18	-	95	(i) Landless	-	-	-	-	-	-			
						(ii) SF									
						(iii) MF	240	152	392	240	152	392			
						(iv) LF									
TOTAL:		77	18	-	95	-	240	152	392	240	152	392			

CHAPTER IV
PROJECT ACTIVITIES

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PROJECT ACTIVITIES

4.1 Preparatory Phase:

i) Entry Point Activities (EPA)

(Financial – Rs. in lakh)

<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>
Names of Project	Amount earmarked for EPA (Rs.)	Entry Point Activities planned	Geographical Location
East Garo Hills IWMP-IX	12.00 Lakhs	Construction of Spring Chamber (1Nos.) Construction of Ringwell (3 Nos.) Construction of R.C.C Footbridge (3Nos.)	(Coordinate copy enclosed)

ii) Other activities of Preparatory Phase:

<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>
Initiation of village level institution	Capacity building	IEC activities	Baseline survey	Hydro-geological survey	Identifying technical support agencies	Resource agreements
1 Nos. Watershed Committees & 1Nos. Watershed Association	4 Nos.	1 Nos.	Participatory Rural Appraisals	N.A	Done	Done

4.2 Watershed Works Phase:

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

(Rs. in Lakhs)

1	2	3			4											
		Pre Project			Proposed Project											
		No	Area irrigated (Ha.)	Storage capacity	Augmentation/ repair of existing structures				Construction of new structures				Total target			
					No	Area to be treated (Ha.)	Storage capacity	Estimated cost (Rs.)	No.	Area to be treated (Ha.)	Storage capacity (per unit)	Estimated cost (Rs.)	No	Area to be treated (Ha.)	Storage capacity (m ³)	Estimated cost (Rs.)
East Garo Hills IWMP-IX	(i) Water Harvesting	-	-	-	-	-	-	-	5	165 Ha	-	14.6	5	165 Ha	-	14.6
	(ii) Pond	-	-	-	-	-	-	-	3	65 Ha.	-	5.4	3	65 Ha.	-	5.4
	(iii) Lake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	(iv) C.C. & R.C.C Dam	-	-	-	-	-	-	-	8	182 Ha.	-	26.75	8	182 Ha.	-	26.75
	(v) Boulder sausage	-	-	-	-	-	-	-	1	35 Ha.	-	6.4	1	35 Ha.	-	6.4
	(vi) Channel	-	-	-	-	-	-	-	2	65 Ha.	-	8.2	2	65 Ha.	-	8.2
	(vii) Any others (please specify)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	19	512 Ha.	-	61.35	19	512 Ha.	-	61.35

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

1	2	3		4							
		Pre-project		Proposed target							
		No.	Area irrigated (ha)	Augmentation/ repair of existing recharging structures			Construction of new recharging structures			Total target	
No.	Area to be irrigated (ha)			Estimated cost	No.	Area to be irrigated (ha)	Estimated cost	Area to be irrigated (ha)	Estimated cost		
East Garo Hills IWMP-IX	(i)Open wells		Nil		Nil			Nil		Nil	
	(ii)Bore wells										
	(iii)Any others (Pl. specify)										

4.2.3 Activities executed by User Groups in the Project Areas.

User Groups will be formed accordingly for operation and maintenance of community assets created under the project, like community drinking water source, . The capacity of the user groups will be built through awareness and training programmes. User fees will be charged accordingly and fixed by the User Groups as per the requirement for maintenance of the assets created.

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

Awareness programmes will be conducted to sensitize the people on various aspects of SHGs. Training programmes shall be from time to time to further build the capacity of the SHGs. Besides, skill development training shall also be conducted for promoting income generation of the SHGs such as Piggery, handicrafts, poultry, integrated farming system, fruit processing etc.

4.2.5 Other activities of watershed works phase:

(Rs. in Lakhs)

<i>1</i>	<i>2</i>		<i>3</i>		<i>4</i>		<i>5</i>		<i>6</i>		<i>7</i>		<i>8</i>		<i>9</i>		<i>10</i>		<i>11</i>		<i>12</i>
Names of projects	Ridge area treatment		Drainage line treatment		Nursery raising		Land development		Improvement Existing Paddy field		Agro Horti (Citrus)		Preliminary & 1 st year Plantation Area		Improvement existing degraded Forest		Non-conventional energy		Any other (please specify)		Total Estimated Cost (Rs.)
	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	
East Garo Hills IWMP-IX			512 Ha.	61.35	Rubber 162000 (459 Ha)	40.5	194 Ha	38.8	390 Ha	16.77	340 Ha	6.8	-	-	105 Ha	3.78			Livelihood, Production System	27.0 30.0	225

4.2.6 Details of engineering structures in watershed works:

(Rs. in Lakhs)

1 Project	2 Name of structures	3 Type of treatment			4 Type of land			5 Target					
		(i) Ridge area (R)	(ii) Drainage line (D)	(iii) Land Dev. (L)	(i) Private (P)	(ii) Community	(iii) Others (pl. specify)	No. of units (No./ cum./ rmt)	Estimated cost (Rs.)				Expected month & year of completion (mm/yyyy)
									M	W	O	T	
East Garo Hills IWMP- IX	Staggered trenching												
	Loose boulder Contour bund	-	-	-	-	-	-						
	Graded bunding												
	Bench terracing			L	P			58Ha.				11.6	03/2015
	Masonry stop dams												
	Gully plug												
	Gabion structures												
	Underground dykes												
	Field bunds												
	Any others (pl. specify)												

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

(Rs. in Lakhs)

1	2	3			4			5			
		Type of treatment			Type of land			Target			
Project	Name of structure/ work	(i) Ridge area (R)	(ii) Drainage line (D)	(iii) Land dev. (L)	(i) Private	(ii) Community	(iii) Others (pl. specify)	Area (ha)	No. of plants	Estimated cost (Rs. in lakh)	Expected month & year of completion (mm/ yyyy)
East Garo Hills IWMP- IX	Afforestation					✓		105 ha		3.78	03/2017
	Regeneration										
	Agro-forestry										
	Fuel wood										
	Fodder										
	Agro-Horticulture						✓		340 Ha	6.8	03/2017
	Pasture dev.										
	Nursery raising	Arecanut									
	Nusery Raising	Rubber					✓		459 Ha	162000	40.5

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

4.2.8 Details of allied / other activities:

(Rs. in Lakhs)

<i>1</i>	<i>2</i>	<i>3</i>			<i>4</i>	
Project	Name of activity @	Type of land			Target	
		(i) Private	(ii) Community	(iii) Others (landless)	Estimated cost (Rs.)	Expected month & year of completion (mm/yyyy)
East Garo Hills IWMP-IX	Tailoring		✓	80 Units	6.4	03/2017
	Carpentry/ Agri-implements/ Basket making etc – 110 nos.		✓	24 Units	1.2	03/2017
	Turmaric plantation	✓		19 Units	2.375	03/2017
	Piggery/ poultry	✓		120 Units	9.6	03/2017
	Small pisciculture	✓		80 Units	0.8	03/2017
	Piggery	✓		14 Units	4.2	03/2017
	Pisciculture	✓	✓	6 Units	1.8	03/2017
	Small Kitchen gardening	✓	✓	90 Units	2.25	03/2017
	Kitchen gardening	✓	✓	34Units	8.5	03/2017
	Rice Mill	✓		6Unit	3	03/2017
	Ginger plantation	✓		45 Units	10.125	03/2017
	Cableway taxiing					
Weaving/Handloom		✓	54 Units	6.75	03/2017	

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

4.3 Consolidation and withdrawal phase

Details of activities in the CPRs in the project areas:

<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>			
				Target			
Names of projects	Name(s) of the villages	CPR particulars	Activity proposed	Target area under the activity (ha)	Estimated expenditure (Rs.)	Expected no. of beneficiaries	Estimated contribution to WDF (Rs.)
East Garo Hills IWMP - IX	1.Samanda Mediprabgre 2. Rongreng Nokwatgre 3. Sokkadam Karika	Drinking Water	Spring Chamber & Ringwell ,	-	12.00		0.2205
		Forest	Improvement of degraded Forest	105 ha	3.78	283	

CHAPTER V
PROJECT PHASING & BUDGETING

CONSOLIDATED ACTION PLAN OF IWMP - BATCH - IV OF SIMSANGGRE SOIL & WATER CONSERVATION DIVISION, WILLIAMNAGAR.

Name of C & R.D. Block : SAMANDA & RONGJENG,

Project Area - 4000 Ha.

	Activities	TOTAL				1st Year				2nd Year				3rd Year				4th Year				5th Year				
		Physical			Fin.	Physical			Fin.	Physical			Fin.	Physical			Fin.	Physical			Fin.	Physical			Fin.	
		Ha.	Nos.	Rmt.		Ha.	Nos.	Rmt.		Ha.	Nos.	Rmt.		Ha.	Nos.	Rmt.		Ha.	Nos.	Rmt.		Ha.	Nos.	Rmt.		Ha.
I	Administrative Cost																									
i.	Honourarium of WDT Members @ Rs. 8000/ month – 1 no.	0	0	0	11.52								3.84								3.84					
ii.	Hon ^{nm} of Watershed Volunteers @ Rs. 2500/month – 3 nos.	0	0	0	2.4																2.4					
iii.	Hon ^{nm} WCO's @ Rs.1000/month x 36 months	0	0	0	1.44																1.44					
iv.	Hon ^{nm} WCM @ Rs.200 x 22 Nos. members/ month for 38 months	0	0	0	6.336								2.112								2.112					
v.	Hon ^{nm} Office assistance @Rs.5000/month x 36	0	0	0	7.2																7.2					
vi.	Hon ^{nm} Chartered Accountant	0	0	0	3.2								0.8								0.8				1.6	
vii.	TA/DA of Field Asstt. @ 5000/ month.	0	0	0	2.4																2.4					
viii.	Hiring charges of office building @ 1500/-	0	0	0	4.32								1.44								1.44					
ix.	Hiring charges of vehicle @ 5000/month.	0	0	0	4.4								0.8								2				1.6	
x.	Office expenses, POL, Stationeries, printing of SHG's books, pamphlets, tea, snacks etc, cost of camera.	0	0	0	16.784								3.008								6.368				7.408	
II	Monitoring & Evalution																									
i.	Cost of Honorarium to evaluator.	0	0	0	6								1.2								3				1.8	
ii.	Cost of printing report etc.	0	0	0	6								1.8								3				1.2	
	Sub Total (I+II)	0	0	0	72	0	0	0	0	0	0	0	15	0	0	0	0	36	0	0	0	21	0	0	0	0

III	Preparatory Phase																								
	EPA																								
i.	Spring Chamber	0	4	0	6.3		4		6.3																
ii.	R.C.C Footbridge	0	3	0	6.6		3		6.6																
iii.	Const. of Ringwell	0	13	0	11.1		13		11.1																
	DPR																								
i.	Cost of Resources Inventories works	0	0	0	1				1																
ii.	Cost of PRA Exercises	0	0	0	2				2																
iii.	Cost of Land use Survey works	0	0	0	1				1																
iv.	Cost of formulating	0	0	0	2				2																
	Institutional &Capacity Building																								
i.	Administrative Expenses	0	0	0	0																				
ii.	Awareness Campaign & Capacity building	0	16	0	4.8		4		1.2		8		2.4		4		1.2								
iii.	Exposure visits - off. Campus	0	24	0	7.6		4		1.6		8		3.2		4		1.6			8		1.2			
iv.	Capacity building of SHG's/ UG's.	0	16	0	4.8		4		1.2		8		2.4		4		1.2								
v.	Capacity building of WC Members.	0	30	0	7.2		2		1.2		8		2.4		4		1.2			16		2.4			
vi.	Capacity building of WDT/WV	0	22	0	5.6		4		0.8		8		1.6		4		0.8			6		2.4			
	Sub-Total of III	0	128	0	60	0	28	0	36	0	40	0	12	0	20	0	6	0	30	0	6	0	0	0	0
IV	Work Phase																								
A	Arable Land Treament																								
i.	1) Bench terrace @Rs.20000/- per ha.	429	0	0	85.8				59				11.8	260			52	110			22				
ii.	2) Improvement existing Paddy field @Rs.4300/- per ha.	845	0	0	36.335				130				5.59	520			22.36	195			8.385				
iii.	3) Agro Horticulture @Rs.2000/-per ha.	515	0	0	10.3				75				1.5	310			6.2	130			2.6				
	Sub-Total Of A	1789	0	0	132.435	0	0	0	0	264	0	0	18.89	1090	0	0	80.56	435	0	0	32.985	0	0	0	0

B	Non-Arable Land																																							
i.	1) Creation of Rubber Nursery(polybag) @Rs.25 each.	883.5	310575	0	77.64375					68	24250		6.0625	734	257500		64.375	81.5	28825					7.20625																
ii.	2) Improvement existing degraded Forest. Preliminary 1st year. @Rs. 3600/- per ha.	227.5	0	0	8.19					65			2.34	97.5			3.51	65						2.34																
	Sub-Total of B	1111	310575	0	85.83375	0	0	0	0	133	24250	0	8.4025	831.5	257500	0	67.885	146.5	28825	0	9.54625	0	0	0	0	0														
C	Drainage Line Treatment																																							
i	R.C.C.Dam	163	10	0	23.11					89	6		12.7	54	2		7.61	20	2						2.8															
ii	C.C.Dam with channel	194	8	0	20.7									194	8		20.7																							
iii.	C.C. Channel	97	3	0	10									77	2		8.6	20	1							1.4														
iv.	Fishery Pond C.C. Core wall	12	1	0	0.9					12	1		0.9																											
v	Dug out Pond.	68	3	0	5.3									53	2		4.5	15	1								0.8													
vi	Border Sausage	126	4	0	15.6					25	1		1.9	60	2		8.3	41	1									5.4												
vii	Water harvesting Structure	341	14	0	33.76125					40	2		2.2075	111	6		15.485	190	6									16.06875												
viii	Gabionic Structure	99	5	0	8.36									99	5		8.36																							
	Sub-Total of C	1100	48	0	117.73125	0	0	0	0	166	10	0	17.7075	648	27	0	73.555	286	11	0	26.46875	0	0	0	0	0	0	0	0	0	0									
D	Livelihood																																							
i	Tailoring @ Rs. 8000/- unit	0	160	0	12.8						50		4		20		1.6		90													7.2								
ii	Carpentry @ Rs. 5000/-unit.	0	57	0	2.85						20		1		15		0.75		22														1.1							
iii.	Kitchen Gardening @ Rs. 2500/- unit	0	290	0	7.25						40		1		110		2.75		140																3.5					
iv.	Pisciculture @ Rs. 1000/ unit	0	325	0	3.25										90		0.9		235																	2.35				
v	Piggery/Poultry @Rs. 8000/- unit.	0	220	0	17.6										100		8		120																	9.6				
vi	Weaving @Rs. 12500/- unit.	0	82	0	10.25										32		4		50																			6.25		
	Sub-Total of D	0	1134	0	54	0	0	0	0	0	110	0	6	0	367	0	18	0	657	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

E	Production System																									
i	Piggery @ Rs. 30000/- unit.	0	42	0	12.6									16		4.8		26		7.8						
ii	Pisciculture @ Rs. 30000/ unit	0	30	0	9									10		3		20		6						
iii.	Ricemill @Rs. 50000/- unit.	0	11	0	5.5					2		1		7		3.5		2		1						
iv.	Ginger Plantation @Rs.22500/- unit.	0	49	0	11.025									7		1.575		42		9.45						
v	Turmeric Plantation @Rs.12,500/- unit	0	21	0	2.625					4		0.5		3		0.375		14		1.75						
vi	Kitchen Gardening @ Rs. 25000/- unit	0	77	0	19.25					18		4.5		19		4.75		40		10						
	Sub-total of E	0	230	0	60	0	0	0	0	0	24	0	6	0	62	0	18	0	144	0	36	0	0	0	0	
	Sub-Total of IV (A+B+C+D+E)	4000	311987	0	450	0	0	0	0	563	24394	0	57	2569.5	257956	0	258	867.5	29637	0	135	0	0	0	0	
V	Consolidation Phase																									
i	Repairs, Maintenance of CPR's.	0	0	0	10.4																				10.4	
ii	Improving the sustainability of various Interventions	0	0	0	3.3																				3.3	
iii.	Documentation of successful experiences & Preparation of Completion Report	0	0	0	4.3																				4.3	
	Sub-Total of V	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	
	Grand Total (I+II+III+IV+V)	4000	312233	0	600	0	38	0	36	563	24434	0	84	2569.5	257976	0	300	867.5	29667	0	162	0	0	0	18	

PROJECT WISE ACTION PLAN OF IWMP - IX, SIMSANGGRE SOIL & WATER CONSERVATION DIVISION, WILLIAMNAGAR.

Name of C & R.D. Block : SAMANDA

Project Area - 2000 Ha.

	Activities	TOTAL				1St Year				2nd Year				3rd Year				4th Year				5th Year							
		Physical			Fin.	Physical			Fin.	Physical			Fin.	Physical			Fin.	Physical			Fin.	Physical			Fin.				
		Ha.	Nos.	Rmt.		Ha.	Nos.	Rmt.		Ha.	Nos.	Rmt.		Ha.	Nos.	Rmt.		Ha.	Nos.	Rmt.		Ha.	Nos.	Rmt.		Ha.	Nos.	Rmt.	
I	Administrative Cost																												
i.	Honourarium of WDT Members @ Rs. 8000/ month – 1 no.	0	0	0	5.76								1.92								1.92								
ii.	Hon ^{rm} of Watershed Volunteers @ Rs. 2500/month – 3 nos.	0	0	0	1.2																1.2								
iii.	Hon ^{rm} WCO's @ Rs.1000/month x 36 months	0	0	0	0.72																0.72								
iv.	Hon ^{rm} WCM @ Rs.200 x 22 Nos. members/ month for 38 months	0	0	0	3.168								1.056								1.056								
v	Hon ^{rm} Office assistance @Rs.5000/month x 36	0	0	0	3.6																3.6								
vi	Hon ^{rm} Chartered Accountant	0	0	0	1.6								0.4								0.4								0.8
vii	TA/DA of Field Asstt. @ 5000/ month.	0	0	0	1.2																1.2								
viii	Hiring charges of office building @ 1500/-	0	0	0	2.16								0.72								0.72								0.72
ix.	Hiring charges of vehicle @ 5000/month.	0	0	0	2.2								0.4								1								0.8
x	Office expenses, POL, Stationeries, printing of SHG's books, pamphlets, tea, snacks etc, cost of camera.	0	0	0	8.392								1.504								3.184								3.704
II	Monitoring & Evaluation																												
i.	Cost of Honorarium to evaluator.	0	0	0	3								0.6								1.5								0.9
ii.	Cost of printing report etc.	0	0	0	3								0.9								1.5								0.6
	Sub Total (I+II)	0	0	0	36	0	0	0	0	0	0	0	7.5	0	0	0	18	0	0	0	10.5	0	0	0	0	0	0	0	0

III	Preparatory Phase																								
	EPA																								
i.	Spring Chamber at Meprabgre	0	1	0	2.7		1		2.7																
ii.	R.C.C Footbridge across	0	1	0	2.2		1		2.2																
iii.	R.C.C Footbridge across	0	1	0	2.2		1		2.2																
iv.	R.C.C Footbridge across	0	1	0	2.2		1		2.2																
v.	Const. of Ringwell	0	3	0	2.7		3		2.7																
	DPR																								
i.	Cost of Resources Inventories works	0	0	0	0.5				0.5																
ii.	Cost of PRA Exercises	0	0	0	1				1																
iii.	Cost of Land use Survey works	0	0	0	0.5				0.5																
iv.	Cost of formulating	0	0	0	1				1																
	Institutional &Capacity Building																								
i.	Administrative Expenses	0	0	0	0																				
ii.	Awareness Campaign & Capacity building	0	8	0	2.4		2		0.6		4		1.2		2		0.6								
iii.	Exposure visits – off. Campus	0	12	0	4.8		2		0.8		4		1.6		2		0.8		4		1.6				
iv.	Capacity building of SHG's/ UG's.	0	9	0	3.1		2		0.6		4		1.2		2		0.6		1		0.7				
v.	Capacity building of WC Members.	0	9	0	3.1		2		0.6		4		1.2		2		0.6		1		0.7				
vi.	Capacity building of WDT/WV	0	8	0	1.6		2		0.4		4		0.8		2		0.4								
	Sub-Total of III	0	53	0	30	0	17	0	18	0	20	0	6	0	10	0	3	0	6	0	3	0	0	0	0

IV	Work Phase																								
A	Arable Land Treatment																								
	SAMANDA MEDIPRABGRE																								
i.	1) Bench terrace @Rs.20000/- per ha.	58	0	0	11.6					8			1.6	40			8	10						2	
ii.	2) Improvement existing Paddy field @Rs.4300/- per ha.	130	0	0	5.59					20			0.86	80			3.44	30						1.29	
iii.	3) Agro Horticulture @Rs.2000/- per ha.	110	0	0	2.2					10			0.2	80			1.6	20						0.4	
	RONGRENG NOKWATGRE																								
i.	1) Bench terrace @Rs.20000/- per ha.	68	0	0	13.6					8			1.6	40			8	20						4	
ii.	2) Improvement existing Paddy field @Rs.4300/- per ha.	130	0	0	5.59					20			0.86	80			3.44	30						1.29	
iii.	3) Agro Horticulture @Rs.2000/- per ha.	120	0	0	2.4					20			0.4	80			1.6	20						0.4	
	SOKKADAM KARIKA																								
i.	1) Bench terrace @Rs.20000/- per ha.	68	0	0	13.6					8			1.6	40			8	20						4	
ii.	2) Improvement existing Paddy field @Rs.4300/- per ha.	130	0	0	5.59					20			0.86	80			3.44	30						1.29	
iii.	3) Agro Horticulture @Rs.2000/- per ha.	110	0	0	2.2					10			0.2	80			1.6	20						0.4	
	Sub-Total Of A	924	0	0	62.37	0	0	0	0	124	0	0	8.18	600	0	0	39.12	200	0	0	15.07	0	0	0	0
B	Non-Arable Land																								
	SAMANDA MEDIPRABGRE																								
i.	1) Creation of Rubber Nursery(polybag) @Rs.25 each.	152	53500	0	13.375					10	3500		0.875	128	45000		11.25	14	5000					1.25	
ii.	2) Improvement existing degraded Forest. Preliminary 1st year. @Rs. 3600/- per ha.	35	0	0	1.26					10			0.36	15			0.54	10						0.36	

	RONGRENG NOKWATGRE																								
i.	1) Creation of Rubber Nursery(polybag) @Rs.25 each.	152	53500	0	13.375					10	3500		0.875	128	45000		11.25	14	5000		1.25				
ii.	2) Improvement existing degraded Forest. Preliminary 1st year. @Rs. 3600/- per ha.	35	0	0	1.26					10			0.36	15			0.54	10			0.36				
	SOKKADAM KARIKA																								
i.	1) Creation of Rubber Nursery(polybag) @Rs.25 each.	155	55000	0	13.75					13	5000		1.25	128	45000		11.25	14	5000		1.25				
ii.	2) Improvement existing degraded Forest. Preliminary 1st year. @Rs. 3600/- per ha.	35	0	0	1.26					10			0.36	15			0.54	10			0.36				
	Sub-Total of B	564	162000	0	44.28	0	0	0	0	63	12000	0	4.08	429	135000	0	35.37	72	15000	0	4.83	0	0	0	0
C	Drainage Line Treatment																								
	SAMANDA MEDIPRABGRE																								
i	R.C.C.Dam across the Rongak Stream.	12	1	0	3.2					12	1		3.2												
ii	C.C. Channel at Apalnalla Stream.	30	1	0	4.4									30	1		4.4								
iii.	Fishery Pond C.C. Core wall at Mediprabgre.	12	1	0	0.9					12	1		0.9												
iv.	Border Sausage at Rongak Stream.	35	1	0	6.4									35	1		6.4								
v	R.C.C.Dam across the Mindu Stream.	24	1	0	3.1									24	1		3.1								
vi	Water harvesthing at watrest Stream	35	1	0	2.98													35	1		2.98				
	RONGRENG NOKWATGRE																								
i	R.C.C.Dam across the Rongreng Stream.	15	1	0	3.1					15	1		3.1												
ii	C.C. Irrigation Dam at Rongreng Stream.	35	1	0	3.8									35	1		3.8								
iii.	C.C.Dam with Channel at Rongreng Stream	28	1	0	3.2									28	1		3.2								
iv.	Dugout Pond	25	1	0	2.2									25	1		2.2								
v	Water harvesthing at watrest Stream	30	1	0	2.8													30	1		2.8				

vi	Water harvesting at Ste Stream	30	1	0	2.5												30	1		2.5					
	SOKKADAM KARIKA																								
i	R.C.C.Dam across the Sokmide Stream.	50	2	0	7.55				20	1		3.04	30	1		4.51									
ii	C.C.Dam with Channel at Matbill Stream	25	1	0	3.3								25	1		3.3									
iii.	C.C.Dam with Channel at Watre Stream	28	1	0	3.3								28	1		3.3									
iv.	Dugout Pond	28	1	0	2.3								28	1		2.3									
v	Water harvesting at watrest Stream	35	1	0	3.12												35	1		3.12					
vi	Water harvesting at watrest Stream	35	1	0	3.2												35	1		3.2					
	Sub-Total of C	512	19	0	61.35	0	0	0	0	59	4	0	10.24	288	10	0	36.51	165	5	0	14.6	0	0	0	0
D	Livelihood																								
	SAMANDA MEDIPRABGRE																								
i	Tailoring @ Rs. 8000/- unit	0	30	0	2.4					10		0.8						20		1.6					
ii	Carpentry @ Rs. 5000/-unit.	0	8	0	0.4					4		0.2						4		0.2					
iii.	Kitchen Gardening @ Rs. 2500/- unit	0	30	0	0.75									10		0.25		20		0.5					
iv.	Pisciculture @ Rs. 1000/ unit	0	22	0	0.22									15		0.15		7		0.07					
v	Piggery/Poultry @Rs. 8000/- unit.	0	30	0	2.4									20		1.6		10		0.8					
vi	Weaving @Rs. 12500/- unit.	0	10	0	1.25													10		1.25					
	RONGRENG NOKWATGRE																								
i	Tailoring @ Rs. 8000/- unit	0	30	0	2.4					10		0.8						20		1.6					
ii	Carpentry @ Rs. 5000/-unit.	0	8	0	0.4					4		0.2						4		0.2					
iii.	Kitchen Gardening @ Rs. 2500/- unit	0	30	0	0.75									10		0.25		20		0.5					
iv.	Pisciculture @ Rs. 1000/ unit	0	20	0	0.2									15		0.15		5		0.05					
v	Piggery/Poultry @Rs. 8000/- unit.	0	45	0	3.6									20		1.6		25		2					
vi	Weaving @Rs. 12500/- unit.	0	22	0	2.75									12		1.5		10		1.25					
	SOKKADAM KARIKA																								
i	Tailoring @ Rs. 8000/- unit	0	20	0	1.6					10		0.8						10		0.8					
ii	Carpentry @ Rs. 5000/-unit.	0	8	0	0.4					4		0.2						4		0.2					

iii.	Kitchen Gardening @ Rs. 2500/- unit	0	30	0	0.75									10		0.25		20		0.5				
iv.	Pisciculture @ Rs. 1000/ unit	0	38	0	0.38									15		0.15		23		0.23				
v	Piggery/Poultry @Rs. 8000/- unit.	0	45	0	3.6									20		1.6		25		2				
vi	Weaving @Rs. 12500/- unit.	0	22	0	2.75									12		1.5		10		1.25				
	Sub-Total of D	0	448	0	27	0	0	0	0	0	42	0	3	0	159	0	9	0	247	0	15	0	0	0
E	Production System																							
	SAMANDA MEDIPRABGRE																							
i	Piggery @ Rs. 30000/- unit.	0	2	0	0.6									2		0.6								
ii	Pisciculture @ Rs. 30000/ unit	0	2	0	0.6									2		0.6								
iii.	Ricemill @Rs. 50000/- unit.	0	2	0	1					1		0.5		1		0.5								
iv.	Ginger Plantation @Rs.22500/- unit.	0	14	0	3.15													14		3.15				
v	Turmeric Plantation @Rs.12,500/- unit	0	9	0	1.125					2		0.25						7		0.875				
vi	Kitchen Gardening @ Rs. 25000/- unit	0	12	0	3					9		2.25		3		0.75								
	RONGRENG NOKWATGRE																							
i	Piggery @ Rs. 30000/- unit.	0	5	0	1.5									2		0.6		3		0.9				
ii	Pisciculture @ Rs. 30000/ unit	0	2	0	0.6									2		0.6								
iii.	Ricemill @Rs. 50000/- unit.	0	2	0	1									2		1								
iv.	Ginger Plantation @Rs.22500/- unit.	0	15	0	3.375									1		0.225		14		3.15				
v	Turmeric Plantation @Rs.12,500/- unit	0	8	0	1									1		0.125		7		0.875				
vi	Kitchen Gardening @ Rs. 25000/- unit	0	12	0	3									2		0.5		10		2.5				
	SOKKADAM KARIKA																							
i	Piggery @ Rs. 30000/- unit.	0	7	0	2.1									4		1.2		3		0.9				
ii	Pisciculture @ Rs. 30000/ unit	0	2	0	0.6									2		0.6								
iii.	Ricemill @Rs. 50000/- unit.	0	2	0	1									2		1								
iv.	Ginger Plantation @Rs.22500/- unit.	0	16	0	3.6									2		0.45		14		3.15				
v	Turmeric Plantation @Rs.12,500/- unit	0	2	0	0.25									2		0.25								

vi	Kitchen Gardening @ Rs. 25000/- unit	0	10	0	2.5													10		2.5					
Sub-total of E		0	124	0	30	0	0	0	0	0	12	0	3	0	30	0	9	0	82	0	18	0	0	0	0
Sub-total of IV(A+B+C+D+E)		2000	162591	0	225	0	0	0	0	246	12058	0	28.5	1317	135199	0	129	437	15334	0	67.5	0	0	0	0
V	Consolidation Phase																								
i	Repairs, Maintenance of CPR's.	0	0	0	5.2																				5.2
ii	Improving the sustainability of various Interventions	0	0	0	1.65																				1.65
iii.	Documentation of successful experiences & Preparation of Completion Report.	0	0	0	2.15																				2.15
Sub-Total of V		0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Grand Total (I+II+III+IV+V)		2000	162712	0	300	0	17	0	18	246	12078	0	42	1317	135209	0	150	437	15340	0	81	0	0	0	9

ACTIVITIES'S COORDINATE UNDER THE RONGAK WATERSHED

	Activities	1St Year			2nd Year			3rd Year			4th Year		
		Physical		Fin.	Physical		Fin.	Physical		Fin.	Physical		Fin.
		Coordinate	Nos.		Coordinate	Nos.		Coordinate	Nos.		Coordinate	Nos.	
I	Preparatory Phase												
	EPA												
i.	Spring Chamber at Meprabgre	N 25'35'59.2" E 90'30'37.1"	1	2.7									
ii.	R.C.C Footbridge across	N 25'36'13.4" E 90'30'32.7"	1	2.2									
iii.	R.C.C Footbridge across	N 25'36'16.0" E 90'30'32.5"	1	2.2									
iv.	R.C.C Footbridge across	N 25'35'58.5" E 90'30'25.5"	1	2.2									
v.	Const. of Ringwell	N 25'35'58.1" E 90'30'25.6"	3	2.7									
II	Work Phase												
C	Drainage Line Treatment												
	SAMANDA MEDIPRABGRE												
i.	R.C.C.Dam across the Rongak Stream.				N 25'36'20.4" E 90'30'18.4"	1	3.2						
ii.	C.C. Channel at Apalnalla Stream.				N 25'36'16.8" E 90'30'13.8"			N 25'36'50.01" E 90'30'14.60"	1	4.4			
iii.	Fishery Pond C.C. Core wall at Mediprabgre.				N 25'36'00.5" E 90'30'13.8"	1	0.9						
iv.	Border Sausage at Rongak Stream.							N 25'36'16.0" E 90'30'32.5"	1	6.4			
v.	R.C.C.Dam across the Mindu Stream.							N 25'36'05.6" E 90'30'34.7"	1	3.1			
vi.	Water harvesthing at watrest Stream										N 25'30'36.5" E 90'35'52.0"	1	2.98
	RONGRENG NOKWATGRE												
i.	R.C.C.Dam across the Rongreng Stream.				N 25'37'66.2" E 90'33'00.8"	1	3.1						
ii.	C.C. Irrigation Dam at Rongreng Stream.							N 25'37'59.3" E 90'33'00.8"	1	3.8			
iii.	C.C.Dam with Channel at Rongreng Stream							N 25'37'80.5" E 90'32'80.9"	1	3.2			
iv.	Dugout Pond							N 25'37'80.5" E 90'32'80.9"	1	2.2			
v.	Water harvesthing at watrest Stream										N 25'37'01.01" E 90'33'01.00"	1	2.8

vi	Water harvesthing at Ste Stream										N 25'37'50.00" E 90'33'08.06"	1	2.5
	SOKKADAM KARIKA												
i	R.C.C.Dam across the Sokmide Stream.				N 25'37'662" E 90'33'008"	1	3.04	30	1	4.51			
ii	C.C.Dam with Channel at Matbill Stream							N 25'37'593" E 90'33'008"	1	3.3			
iii.	C.C.Dam with Channel at Watre Stream							N 25'37'255" E 90'33'151"	1	3.3			
iv.	Dugout Pond							N 25'37'805" E 90'32'809"	1	2.3			
v	Water harvesthing at watrest Stream										N 25'38'13.06" E 90'33'04.05"	1	3.12
vi	Water harvesthing at watrest Stream										N 25'30'13.01" E 90'32'03.01"	1	3.2

Convergence of EGH IWMP Project -IX with NREGS

Rubber Plantation Norms for NREGS

Location & Activities	2nd year of IWMP		1st Year of NREGS		3rd Year of IWMP		2nd Year of NREGS		4th Year of IWMP		3rd Year of NREGS		5th Year of IWMP		4th Year of NREGS		TOTAL (IWMP)		TOTAL (NREGS)	
	Phy .	Fin.	Phy .	Fin.	Phy .	Fin.	Phy .	Fin.	Phy .	Fin.	Phy .	Fin.	Phy .	Fin.	Phy .	Fin.	Phy .	Fin.	Phy .	Fin.
SAMANDA MEDIPRABGRE																				
Creation of Rubber Nusery (Polybag) @Rs.25/- per plant.	3500	0.875			45000	11.25			5000	1.25							53500	13.375	0	0
Ha.	10				128				14								152	0	0	0
Preliminary 1st year plantation @Rs.15760/- per ha. (Material Component)			10	1.576			128	20.1728			14	2.2064					0	0	152	23.9552
Preliminary & 1st Year Wage Component @Rs.51100/-				5.11				65.408				71.54					0	0	0	142.058
2nd Year Maintenace @Rs.1000/- per ha.							(M)	0.1			(M)	1.28			(M)	0.14	0	0	0	1.52
2nd Year Wage Component. @Rs.35910/-								3.591				45.9648				5.0274	0	0	0	54.5832
RONGRENG NOKWATGRE																	0	0	0	0
Creation of Rubber Nusery (Polybag) @Rs.25/- per plant.	3500	0.875			45000	11.25			5000	1.25							53500	13.375	0	0
Ha.	10				128				14								152	0	0	0
Preliminary 1st year plantation @Rs.15760/- per ha. (Material Component)			10	1.576			128	20.1728			14	2.2064					0	0	152	23.9552
Preliminary & 1st Year Wage Component @Rs.51100/-				5.11				65.408				71.54					0	0	0	142.058
2nd Year Maintenace @Rs.1000/- per ha.							(M)	0.1			(M)	1.28			(M)	0.14	0	0	0	1.52
2nd Year Wage Component. @Rs.35910/-								3.591				45.9648				5.0274	0	0	0	54.5832
SOKKADAM MEDIPRABGRE																	0	0	0	0
Creation of Rubber Nusery (Polybag) @Rs.25/- per plant.	5000	1.25			45000	11.25			5000	1.25							55000	13.75	0	0
Ha.	13				128				14								155	0	0	0
Preliminary 1st year plantation @Rs.15760/- per ha. (Material Component)			13	2.0488			128	20.1728			14	2.2064					0	0	155	24.428
Preliminary & 1st Year Wage Component @Rs.51100/-				6.643				65.408				7.154					0	0	0	79.205
2nd Year Maintenace @Rs.1000/- per ha.							(M)	0.13			(M)	1.28			(M)	0.14	0	0	0	1.55
2nd Year Wage Component. @Rs.35910/-								4.6683				45.9648				5.0274	0	0	0	55.6605
TOTAL OF HA.	33				384				42							459				
TOTAL OF Phy. & Fin.	12000	3	33	22.0638	135000	33.75	384	268.9227	15000	3.75	42	298.5876	0	0	0	15.5022	162000	40.5	459	605.0763

CONVERGENCE OF EGH - IWMP PROJECT - IX WITH NREGS

RONGAK WATERSHED, SAMANDA C.&R.D. BLOCK

Agro - Horti Norms for NREGS

Sl. No.	Location & Activities	2nd year of IWMP		1st Year of NREGS		3rd Year of IWMP		2nd Year of NREGS		4th Year of IWMP		3rd Year of NREGS		5th Year of IWMP		4th Year of NREGS		TOTAL (IWMP)		TOTAL (NREGS)	
		Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	SAMANDA MEDIPRABGRE	Ha.		Ha.		Ha.		Ha.		Ha.		Ha.		Ha.		Ha.		Ha.		Ha.	
	Agro - Horti. Planting materials @Rs.2000/- per ha.	10	0.2			80	1.6			20	0.4							110	2.2	0	0
	Preliminary 1st year plantation @Rs.3900/- per ha.				0.39				3.12				0.78					0	0	0	4.29
	2nd Year Maintenance @Rs.2700/- per ha.							(M)	0.27			(M)	2.16			(M)	0.54	0	0	0	2.97
	RONGRENG NOKWATGRE																				
	Agro - Horti. Planting materials @Rs.2000/- per ha.	20	0.4			80	1.6			20	0.4							120	2.4	0	0
	Preliminary 1st year plantation @Rs.3900/- per ha.				0.78				3.12				0.78					0	0	0	4.68
	2nd Year Maintenance @Rs.2700/- per ha.							(M)	0.54			(M)	2.16			(M)	0.54	0	0	0	3.24
	SOKKADAM KARIKA																	0	0	0	0
	Agro - Horti. Planting materials @Rs.2000/- per ha.	10	0.2			80	1.6			20	0.4							110	2.2	0	0
	Preliminary 1st year plantation @Rs.3900/- per ha.				0.39				3.12				0.78					0	0	0	4.29
	2nd Year Maintenance @Rs.2700/- per ha.							(M)	0.27			(M)	2.16			(M)	0.54	0	0	0	2.97
	TOTAL	40	0.8	0	1.56	240	4.8	0	10.44	60	1.2	0	8.82	0	0	0	1.62	340	6.8	0	22.44

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

1	2	3		4	5	6	7				8							
		Project duration (dd/mm/yyyy)					Area of the project to be treated (Treatable Area)	Project cost (Rs. In lakh)	Names of Micro watersheds & Code nos. (as per DoLR's unique codification)	Treatable Area (Ha.) (As per LULC)				Area details (Ha.) (falling within the projects) (As per ownership)				
		From	To							Cultivated rainfed area	Cultivated irrigated area	Uncultivated wasteland		Pvt. Agri. Land	Forest land	Community land	Others (pl. specify)	Total area (ha)
		a) Temporary fallow	b) Permanent															
East Garo Hills IWMP-IX	2012-2013	2012 - 2013	2016 - 2017	2000 ha	300 lakhs	East Garo Hills IWMP - IX	390 Ha	--	116Ha.	-	420 Ha	130Ha	90Ha	1360 ha	2000Ha			

Fund provision for the IWMP projects from all sources:

<i>1</i>	<i>2</i>		<i>3</i>										<i>4</i>
Name of Projects	IWMP Fund		Funds from other sources in addition to IWMP funds										Total
			Convergence funds		PPP		Community		Institutional finance		Others (Pl. specify)		
	Central Share	State Share	Name of Scheme	Amount (Lakhs)	Name of private sector	Financial contribution	Name	Financial contribution	Name	Financial contribution	Name	Financial contribution	
East Garo Hills IWMP-IX	270.0 lakhs	30.0 lakhs	NREGS	627.5163	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	627.5163

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

<i>1</i>	<i>2</i>				<i>3</i>				
Names of Projects	Distt. Agency's Project Account details				Watershed Committee (WC) account details:				
	Name of the Bank and Branch where project account has been opened	Account Number (to be obtained confidentially)	Account type (Savings/ Current/ Others)	Name & Designation of authorized persons who operate the account.	Name of Watershed Committee	Name of the Bank and Branch where project account has been opened	Account number (to be obtained confidentially)	Account type (Savings/ current others)	Name & Designation of authorized persons who operate the account.
East Garo Hills IWMP-IX	Yet to be opened	Yet to be obtained	N.A.	Chairman W.C, Secretary W.C, Project Leader / WDT	Rongak Watershed Committee	Yet to be opened	Yet to be obtained	N.A.	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 lakhs)	Name of activity/task/structure undertaken with converged funds	Reference no. of activity/ task/ structure in DPR [@]	Level at which decision for convergence was taken ^{\$}
					(a) Structures (b) livelihoods (c) Any other (pl. specify) [#]		
1	East Garo Hills	East Garo Hills – IWMP-IX	* Community Rural Development Department NREGS		(i) Agro – Horticulture – 110 ha. (ii) Plantation of Rubber – 459 ha.	List of NREGS Convergence Enclosed	Block Level & District Level

CHAPTER VI

CAPACITY BUILDING

CHAPTER VI CAPACITY BUILDING

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

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

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

- From Column no. 2, total no. of States implementing the programme, from Column no. 3, no. of training institutes, from column No. 9, total no. of category-wise trainings and trainees may be given at the end of the table for the entire country
- # Central govt. Dept./ State govt. Dept./ Autonomous Body/ Research Institutes/ Universities/ Others (pl. specify)
- \$ Capacity Building/ Agriculture/ Horticulture/ Animal Husbandry/ Pisciculture/ Remote Sensing/ Water conservation/ Ground water/ Forestry/ livelihoods/ entrepreneurship development/ others (pl. specify)

[@] 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 2012-13 as on 31-03-2017 (dd/mm/yyyy)*

<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>					<i>5</i>
Project Stakeholders	Type of Training / Capacity Building	Agency/ Institution to provide Training/ Capacity building	No. of Trainings targeted during each financial Year					Total
			2012-13	2013-14	2014-15	2015-16	2016-17	
PIA	a) Project Management b) GIS application c) Projectization d) Entrepreneurship	a) NIRD b) SIRD c) ICAR	-	2	1	-	-	3
WDT	a) Project concept b) GIS application c) Projectization	a) NIRD b) SIRD c) PIA d) ICAR	8	16	-	8	-	32
UG	a) Asset Management	a) PIA	-	8	2	-	-	10
SHG	a) SHG concept & management b) Entrepreneurship	a) NGOs b) PIA	-	12	18	-	-	30
WC	a) Project Concept & Management b) Natural Resource management c) Livelihood related activities d) Microenterprise & Marketing	a) PIA b) Line Department c) NGOs	8	16	-	8	-	32
GP			-	-	-	-	-	-
Community	a) Project Concept & Management b) Natural Resource management c) Livelihood related activities d) Microenterprise & Marketing	a) PIA b) Line Department c) NGOs	-	2	3	-	-	5
Others (Pl. specify)	a) Exposure visits	a) ICAR b) RRTC	4	4	-	4	-	12
Total :			20	60	24	20	-	124

Table 6.3: Information, Education & Communication (IEC) activities for the year 2012-13 as on 31/03/17 (dd/mm/yyyy)*

	1	2	3	4	5
	Activity	Executing agency	Estimated expenditure (Rs.in lakh)	Expenditure incurred (Rs.in lakh)	Outcome (may quantity, wherever possible)
1.	Awareness	S&WC (T) Division	2.4	2.4	
2	Exposure Visits	S&WC (T) Division	4.8	4.8	
3.	Capacity Building	S&WC (T) Division	7.8	7.8	

CHAPTER VII

EXPECTED OUTCOME

**CHAPTER VII
EXPECTED OUTCOME**

Table 7.1 Employment related outcomes:

SI No	Name of Village	1										2				
		Wage employment										Self employment				
		No. of mandays					No. of beneficiaries					No. of beneficiaries				
		SC	ST	Others	Women	Total	SC	ST	Others	Women	Total	SC	ST	Others	Women	Total
1.	1.Samanda Mediprabgre 2. Rongreng Nokwatgre 3. Sokkadam Karika	-	108000	-	37800	108000	-	283	-	-	283	-	16	-	6	16

Table 7.2 Migration Details:

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

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

Table 7.3.1 Status of Drinking water:

<i>1</i>			<i>2</i>			<i>3</i>
Availability of drinking water (no. of months in a year)			Quality of drinking water			Comments
Pre-project	Post-project	Change in availability	Pre-project	Post-project	Change in quality	
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 7.3.2 Water Use efficiency:

The over water availability in the project area will improve due to the soil and water conservation measures. Water use efficiency and management will also be better with the active involvement of the people and formation of user groups to maintain the assets created.

Table 7.4 : Vegetation/ crop related outcomes:

Table 7.4.1 Details of Karif crop area and yield in the project areas:

<i>1</i>	<i>2</i>						<i>3</i>						<i>4</i>					
Name of crops	Pre-project						Mid-term						Post-project					
	Area (ha)		Average Yield (Qtl) per ha.		Total Production (Qtl)		Area (ha)		Average Yield per ha (Qtl)		Total Production (Qtl)		Area (ha)		Average Yield per ha (Qtl)		Total Production (Qtl)	
	Irri.	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.
Millet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Paddy	-	390	-	19.36	-	409.36	-	-	-	-	-	-	-	-	-	-	-	-
Soyabean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Yam	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ginger	-	111	-	56	-	6216	-	-	-	-	-	-	-	-	-	-	-	-
Tapioca	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Betel nut	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Betel leaf	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Pepper	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oranges	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

* 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 7.4.2 Details of Rabi crop area and yield in the project areas:

<i>1</i>	<i>2</i>	<i>3</i>						<i>4</i>						<i>5</i>					
Name of Projects	Name of crops	Pre-project						Mid-term						Post-project					
		Area (ha)		Average Yield (Qtl) per ha.		Total Production (Qtl)		Area (ha)		Average Yield per ha (Qtl)		Total Production (Qtl)		Area (ha)		Average Yield per ha (Qtl)		Total Production (Qtl)	
		Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.
East Garo Hills – IWMP - IX	Paddy	-	-	-	-	-	-	-	-	-	-	-	-	-	390	-	19.36	-	7550.4
	Ginger	-	260	-	56	-	14560	-	-	-	-	-	-	-	880	-	56	-	49280

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

1	2	3						4						5					
Name of Projects	Name of crops	Pre-project						Mid-term						Post-project					
		Area (ha)		Average Yield (Qtl) per ha.		Total Production (Qtl)		Area (ha)		Average Yield per ha (Qtl)		Total Production (Qtl)		Area (ha)		Average Yield per ha (Qtl)		Total Production (Qtl)	
		Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.
East Garo Hills IWMP - IX																			

* 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 7.4.4 Availability of Fodder

1	2	3			4		
Name of Project	Duration of Project	Pre-Project (tones/ha)			Post-Project (tones/ha)		
		Source/ Name of report	Year of reference	Area already under fodder	Area under fodder proposed to be covered through IWMP	Area under fodder actually covered through IWMP	Change in area under fodder
EGH IWMP-IX		N/A					

Table 7.4.5 Increase/ Decrease in Forest/vegetation cover:

<i>1</i>	<i>2</i>	<i>3</i>			<i>4</i>		
Name of project	Duration of Project	Existing area tree cover (ha)			Achievement (ha)		
		Source/Name of report	Year of reference	Area already under forest/vegetative cover	Forest/vegetative cover area proposed to be covered under IWMP	Forest/vegetative cover area actually covered under IWMP	Change in forest/vegetative cover area
East Garo Hills IWMP - IX	5 yrs	Statistical Report, Meghalaya	-	130 Ha.	105 Ha.	-	105 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 7.4.6 Increase/ Decrease in area under horticulture:

<i>1</i>	<i>2</i>	<i>3</i>			<i>4</i>		
Name of project	Duration of Project	Existing area under horticulture (ha)			Achievement (ha)		
		Source/Name of report	Year of reference	Area already under horticulture	Area under horticulture proposed to be covered through IWMP	Area under horticulture actually covered through IWMP	Change in area under horticulture
East Garo Hills IWMP- IX	5 yrs	Field Survey Report	2012	-	340 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 7.4.7 Increase/ Decrease in area under fuel-wood:

<i>1</i>	<i>2</i>	<i>3</i>			<i>4</i>		
Name of project	Duration of Project	Existing area under fodder (ha)			Achievement (ha)		
		Source/Name of report	Year of reference	Area already under fuel-wood	Area under fuel-wood proposed to be covered under IWMP	Area under fuel-wood actually covered under IWMP	Change in area under fuel-wood
East Garo Hills IWMP - IX	5 yrs	Nil	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 7.5 : Livelihood related outcomes:

Table 7.5.1 Details of livestock in the project areas (for fluids please mention in litres, for solids please mention in kgs. and income in Rs.):

<i>1</i>	<i>2</i>	<i>3</i>			<i>4</i>			<i>5</i>			<i>6</i>
Name of Projects	Type of Animal	Pre-project			Mid-term			Post-project			Remarks
		No.	Yield	Income	No.	Yield	Income	No.	Yield	Income	
East Garo Hills IWMP - IX	Milch- animals										
	Piggery										
	Poultry										
	Apiculture in unit										
Total for all projects											

* 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 7.6 : Benefit Cost Analysis

<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>9</i>
District	Name of project	Name of WC	Name of structure/ activity	Estimated cost (Rs.)	Expected quantifiable benefits (Rs.)	Benefit Cost ratio [#]
East Garo Hills	East Garo Hills IWMP IX	East Garo Hills – IWMP -IX Watershed Committee	N.A.	2 Lakh	N.A.	1: 1.5

[#] B:C ratio more than 1 – Cost Effective
Less than 1 – Not Cost Effective

ANNEXURE - I
DETAILS OF SOCIO ECONOMIC

DETAIL OF SOCIO ECONOMIC

SOCIO ECONOMIC SURVEY OF VILLAGE SAMANDA MIDIPRABGRE

SL. No.	Name of the head of the family	Population				Total	Literacy		Occupation	Land holding in bighas		Livestock				Total
		Male		Female			Male	Female		Paddy	Orchard	Cow	Pig	Goat	Poultry	
		Adult	Minor	Adult	Minor											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	Shri Salman Marak	1	1	1	2	5	2	1	Farmer	6	5	7	2	1	25	35
2	Shri Jiki Marak	2	1	1	1	5	1	1	Farmer	8	6	-	3	2	12	17
3	Shri Willipson Marak	3	2	1	3	9	2	1	Farmer	10	7	5	1	3	30	39
4	Shri Soten Sangma	1	1	1	1	4	1	1	Farmer	12	5	2	1	4	12	19
5	Shri Suja Sangma	1	-	1	-	2	1	1	Farmer	11	12	3	-	-	25	28
6	Shri Jimbal Sangma	1	-	1	-	2	1	1	Farmer	-	20	15	5	2	10	32
7	Shri Chorish Sangma	1	-	-	-	1	1	-	Farmer	10	25	2	3	1	15	21
8	Smt. Roseni Marak	1	-	1	-	2	-	1	Farmer	15	5	4	2	-	25	31
9	Shri Solen Sangma	1	-	1	-	2	1	1	Farmer	-	25	16	-	20	30	66
10	Shri Holding Sangma	1	-	3	-	4	1	3	Farmer	30	22	-	5	12	40	57
11	Shri Jamson Sangma	1	-	1	-	2	1	1	Farmer	21	40	20	6	-	18	44
12	Shri Singjing Sangma	1	-	1	-	2	-	-	Farmer	25	30	16	-	25	17	58
13	Shri Armish Sangma	3	-	1	-	4	2	1	Farmer	-	40	-	-	-	19	19
14	Shri Chingrin Marak	2	-	2	-	4	2	2	Farmer	10	12	5	2	8	12	27
15	Shri Oren Sangma	1	-	1	-	2	1	1	Farmer	6	15	10	-	13	30	53
16	Shri Aseng Sangma	2	-	1	1	4	2	1	Farmer	18	23	17	2	-	24	43
17	Shri Jamal Marak	1	-	1	-	2	1	1	Farmer	12	20	-	-	15	25	40
18	Shri Kollingstone Sangma	1	-	1	-	2	1	1	Farmer	8	16	11	5	-	24	40
19	Shri Keran Marak	3	-	2	-	5	2	2	Farmer	20	12	6	2	16	26	50
20	Shri Jinonsing Marak	1	-	-	-	1	1	-	Farmer	5	17	2	1	-	20	23
21	Smt. Satmare Sangma	-	-	1	-	1	-	1	Farmer	-	20	1	1	1	-	3

22	Shri Jeresing Sangma	2	-	3	-	5	1	1	Farmer	15	25	10	3	-	40	53
23	Smt. Balme Marak	3	-	1	-	4	3	1	Farmer	11	20	1	2	3	15	21
24	Shri Kaning Sangma	1	-	1	-	2	1	1	Farmer	8	9	2	5	1	20	28
25	Shri Bronson Marak	2	-	3	-	5	2	1	Farmer	16	20	15	2	-	32	49
26	Shri Armison Sangma	3	-	1	-	4	2	2	Farmer	20	42	14	6	-	43	63
27	Shri Orensing Marak	1	-	2	-	3	1	1	Farmer	5	10	5	2	5	20	32
28	Shri Jackson Sangma	2	-	1	-	3	1	1	Farmer	-	25	6	1	2	19	28
29	Smt. Yanre Sangma	-	-	-	-	-	-	-	Farmer	10	12	6	2	1	25	34
30	Shri Polesh Sangma	1	-	1	-	2	1	-	Farmer	5	20	-	-	-	28	28
31	Shri Chondon Sangma	1	-	1	-	2	-	-	Farmer	-	26	1	2	6	5	14
32	Shri Trison Marak	1	-	-	-	1	1	-	Farmer	10	16	1	1	2	10	14
33	Shri Engka Sangma	1	-	1	-	2	1	-	Farmer	12	13	-	-	6	8	14
34	Shri Kinijon Sangma	2	-	1	-	3	1	1	Farmer	13	20	5	6	-	18	29
35	Shri Jolen Sangma	1	-	1	-	2	1	1	Farmer	16	11	1	1	1	-	3
36	Shri Solma Sangma	1	-	1	-	2	1	1	Farmer	12	10	1	1	1	1	4
37	Shri Jenden Sangma	1	-	2	-	3	1	1	Farmer	16	10	-	-	6	7	13
38	Shri Winder Sangma	2	-	1	-	3	2	-	Farmer	10	8	2	3	4	16	25
39	Shri Monolsing Sangma	1	-	2	-	3	1	1	Farmer	5	12	-	-	10	15	25
40	Shri Marjin Marak	2	-	2	-	4	1	1	Farmer	18	20	12	6	-	24	42
41	Smt. Krina Marak	-	-	1	-	1	1	-	Farmer	7	10	2	1	1	15	19
42	Shri Taljet Sangma	1	-	1	-	2	1	1	Farmer	5	8	16	-	-	20	36
43	Shri Predick Sangma	1	-	1	-	2	1	1	Farmer	10	12	1	2	5	8	16
44	Smt. Terak Sangma	1	-	2	-	3	1	1	Farmer	12	9	-	-	-	26	26
45	Shri Mengkang Sangma	1	-	1	-	2	-	-	Farmer	8	12	7	5	2	10	24
46	Shri Hewil Sangma	1	-	1	-	2	1	1	Farmer	9	10	2	1	1	6	10
47	Shri Lalesh Sangma	1	-	-	-	1	1	-	Farmer	-	7	-	-	-	10	10
48	Shri Walenston Sangma	1	-	1	-	2	1	1	Farmer	5	7	2	1	-	9	12
49	Shri Kon Sangma	1	-	1	-	2	1	1	Farmer	8	15	5	2	1	17	25
50	Shri Jonalson Marak	1	-	1	-	2	1	1	Farmer	10	16	-	-	-	20	20
51	Shri Jomeni Sangma	-	-	1	-	1	1	1	Farmer	7	12	1	2	-	16	19

52	Shri Nobin Marak	1	-	1	-	2	1	1	Farmer	-	20	10	-	-	8	18
53	Shri Olen Sangma	1	-	1	-	2	1	1	Farmer	5	8	1	1	2	15	19
54	Shri Polsing Marak	1	-	1	-	2	1	-	Farmer	-	20	-	-	-	20	20
55	Shri Gabriel Sangma	2	1	1	-	4	1	1	Farmer	18	20	5	2	1	10	18
56	Shri Niten Sangma	1	-	1	-	2	1	1	Farmer	6	8	5	6	1	7	19
57	Shri Rancheng Marak	1	1	1	-	3	1	1	Farmer	8	10	6	2	1	12	21
58	Shri Lingbath Sangma	1	-	1	-	2	1	1	Farmer	9	15	2	1	3	16	22
	Grand Total	74	7	66	8	155	63	50		556	925	289	110	189	1030	1618

SOCIO ECONOMIC SURVEY OF VILLAGE RONGRENG NOKAT

SL. No.	Name of the head of the family	Population				Total	Literacy		Occupation	Land holding in bighas		Livestock				Total
		Male		Female			Male	Female		Paddy	Orchard	Cow	Pig	Goat	Poultry	
		Adult	Minor	Adult	Minor											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	Shri Reksan Marak	1	1	2	1	5	1	1	Farmer	2	5	2	1	1	10	14
2	Shri Rajip M. Sangma	1	-	1	2	4	1	1	Farmer	3	4	3	2	-	12	17
3	Shri Malsrang Marak	1	-	1	-	2	1	-	Farmer	1	3	1	-	-	14	15
4	Shri Saman Sangma	1	-	1	2	4	1	-	Farmer	4	6	4	2	2	16	24
5	Smt. Watsoni Marak	1	-	1	2	4	1	1	Farmer	2	7	1	3	-	8	12
6	Shri Manseng Marak	1	2	1	2	6	1	1	Farmer	1	8	-	2	3	13	18
7	Shri Gaban Marak	1	1	1	2	5	1	1	Farmer	5	9	4	1	4	15	24
8	Shri Rengsin Sangma	1	3	2	3	9	1	2	Farmer	6	10	5	-	6	18	29
9	Smt. Medina Marak	-	-	1	-	1	-	1	Farmer	-	3	-	-	-	12	12
10	Smt. Sereni Sangma	-	-	1	-	1	-	1	Farmer	-	2	-	-	-	8	8
11	Shri Batnang Sangma	1	2	1	2	6	1	1	Farmer	4	12	4	2	7	20	33
12	Shri Blen Marak	2	3	2	2	9	2	2	Farmer	6	14	8	3	8	30	49
13	Shri Rejinath Momin	2	4	2	2	10	2	2	Farmer	10	20	10	4	6	25	45
14	Shri Salseng Sangma	1	-	-	-	1	1	-	Farmer	12	15	5	6	2	10	23
15	Shri Sowensing Sangma	1	-	1	-	2	-	-	Farmer	-	16	6	2	4	6	18
16	Shri Sengram Marak	2	-	1	-	3	1	-	Farmer	7	9	5	-	2	24	31
17	Shri Bansang Marak	2	-	1	-	3	1	1	Farmer	9	14	8	3	-	22	33
18	Shri Baren Sangma	1	-	1	-	2	1	1	Farmer	5	9	2	1	2	10	15
19	Smt. Jemre Marak	-	-	1	-	1	-	-	Farmer	-	2	-	-	-	9	9
20	Shri Changnan Marak	3	2	1	2	8	3	1	Farmer	6	7	4	2	5	25	36
21	Shri Alison Marak	1	-	1	2	4	1	1	Farmer	10	12	6	1	4	20	31
22	Shri Gochin Sangma	1	-	1	-	2	1	1	Farmer	9	14	8	2	-	24	34

23	Shri Rengti Marak	2	-	2	-	4	1	1	Farmer	6	7	8	3	5	20	36
24	Shri Gepten Marak	2	-	1	-	3	2	1	Farmer	12	6	12	16	20	20	68
25	Shri Banang Marak	2	-	1	-	3	2	1	Farmer	5	7	2	10	18	21	51
26	Shri Rosen Marak	1	-	2	-	3	-	1	Farmer	8	12	9	3	-	12	24
27	Shri Kolin Sangma	1	-	-	-	1	1	-	Farmer	10	15	-	-	-	26	26
28	Shri Palsin Marak	1	-	1	-	2	1	1	Farmer	5	6	15	-	-	12	27
29	Shri Chejin Sangma	2	-	1	-	3	1	-	Farmer	6	8	2	1	3	10	16
30	Shri Polgon Sangma	1	-	1	-	2	1	1	Farmer	9	10	6	2	5	8	21
31	Shri Dingbin Sangma	1	-	1	-	2	1	1	Farmer	6	4	2	1	-	28	31
32	Smt. Tare Sangma	1	-	2	-	3	1	1	Farmer	7	9	6	2	7	14	29
33	Shri Koton Marak	1	-	1	-	2	1	1	Farmer	4	5	2	1	2	10	15
34	Shri Pomison Marak	3	-	2	-	5	2	1	Farmer	7	6	4	2	1	16	23
35	Smt. Natong Marak	-	-	3	-	3	-	3	Farmer	-	16	2	1	-	30	33
36	Shri Tengsan Sangma	1	-	-	-	1	1	-	Farmer	-	-	-	-	-	-	-
37	Smt. Mani Sangma	-	-	1	-	1	-	1	Farmer	4	2	-	-	-	-	-
38	Shri Sangjim Sangma	1	-	1	-	2	1	1	Farmer	6	8	9	-	2	16	27
39	Shri goan Sangma	1	-	-	-	1	1	-	Farmer	5	4	5	8	2	12	27
40	Shri Gallaram Sangma	1	-	-	-	1	1	-	Farmer	4	6	4	2	-	14	20
41	Shri Kreditson Marak	1	-	1	-	2	-	1	Farmer	-	15	6	-	-	18	24
42	Shri Halen Sangma	1	-	-	-	1	1	-	Farmer	6	8	5	2	-	14	21
43	Shri Arjen Marak	1	-	1	-	2	-	-	Farmer	10	15	7	1	2	12	22
44	Shri Bodot Marak	1	-	1	-	2	1	-	Farmer	8	4	-	2	4	16	22
45	Shri Rangman Sangma	1	-	1	-	2	1	1	Farmer	8	12	9	2	4	20	35
46	Shri jagan Sangma	1	-	-	-	1	-	1	Farmer	11	7	12	4	-	25	41
47	Shri Rojen Sangma	1	-	1	-	2	1	-	Farmer	-	-	-	-	-	-	-
48	Shri Aneng Marak	1	-	1	-	2	1	1	Farmer	6	8	7	3	-	15	25
49	Smt. Enibi Sangma	-	-	1	-	1	-	1	Farmer	4	6	3	2	4	16	25
50	Shri Walon Sangma	1	-	-	-	1	1	1	Farmer	9	12	9	-	-	20	29
51	Shri Jonath Marak	1	-	2	-	3	1	-	Farmer	5	7	5	2	-	-	7
52	Shri Gajansing Marak	1	-	-	-	1	1	2	Farmer	8	4	7	3	2	19	31
53	Shri Jengban Marak	1	-	1	-	2	-	-	Farmer	4	2	-	-	-	-	-

54	Shri Tengnang Sangma	1	-	1	-	2	1	1	Farmer	-	20	-	-	-	18	18
55	Shri Repison Sangma	2	-	-	-	2	1	1	Farmer	7	5	6	2	4	12	24
56	Shri Kajan Marak	1	-	-	-	1	1	-	Farmer	-	7	3	1	-	10	14
57	Shri Tejong Marak	1	-	1	-	2	1	-	Farmer	4	6	5	2	-	11	18
58	Shri Naran Marak	2	-	2	-	4	1	-	Farmer	6	8	10	3	2	-	15
59	Shri Temson Sangma	2	-	1	-	3	1	-	Farmer	12	20	12	4	15	24	55
60	Shri Chijan Sangma	1	-	1	-	2	-	-	Farmer	7	10	8	2	-	21	31
61	Shri Sengan Marak	2	-	1	-	3	-	1	Farmer	-	20	-	4	2	18	24
62	Shri Chaban Sangma	2	-	1	-	3	2	1	Farmer	6	17	5	-	-	28	33
63	Shri Joel Sangma	1	-	1	-	2	1	1	Farmer	4	5	4	2	-	16	22
64	Shri Charonsing Marak	1	-	1	-	2	1	1	Farmer	-	20	-	4	11	20	35
65	Shri Sanding Sangma	1	-	1	-	2	-	-	Farmer	8	12	8	3	5	15	31
	Grand Total	76	18	66	24	184	58	48		339	582	305	137	176	988	1606

SOCIO ECONOMIC SURVEY OF VILLAGE SOKADAM SOKMITEGRE

SL. No.	Name of the Head of the family	Population				Total	Literacy		Occupation	Land holding in bighas		Livestock				Total
		Male		Female			Male	Female		Paddy	Orchard	Cow	Pig	Goat	Poultry	
		Adult	Minor	Adult	Minor											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	Shri Zonen Sangma	3	2	2	1	8	3	2	Farmer	6	10	2	2	3	16	39
2	Shri Jonsang Sangma	2	1	3	2	8	2	2	Farmer	3	6	1	1	4	15	30
3	Shri Sanjeng Marak	4	3	2	1	10	3	1	Farmer	12	20	10	3	6	25	76
4	Shri Rengdo Sangma	1	4	4	1	10	1	4	Farmer	8	7	5	1	2	12	35
5	Shri Penal Sangma	2	2	2	2	8	1	1	Farmer	5	4	1	-	7	30	47
6	Shri Krishna Marak	1	1	1	1	4	1	-	Farmer	7	11	-	1	-	35	54
7	Shri Zojang Sangma	3	-	2	-	5	2	2	Farmer	4	2	1	1	2	8	18
8	Shri Mojen Marak	5	-	1	-	6	5	1	Farmer	2	5	-	2	1	10	20
9	Shri Mohen Marak	4	2	3	2	11	4	3	Farmer	7	12	3	3	4	15	44
10	Shri Suolin Momin	3	-	3	-	6	3	3	Farmer	5	16	2	2	-	13	38
11	Shri Willingson Momin	4	2	1	3	10	4	1	Farmer	2	8	-	1	-	32	43
12	Shri John Marak	1	5	1	-	7	1	1	Farmer	6	9	2	-	5	40	62
13	Shri Mendilla Marak	-	-	1	-	1	-	-	Farmer	-	2	-	-	-	17	19
14	Shri Cheneng Marak	2	3	1	2	8	2	1	Farmer	3	4	4	1	6	14	32
15	Shri Zonak Marak	1	-	1	1	3	1	1	Farmer	-	3	-	-	-	12	15
16	Shri Samson Marak	2	2	2	1	7	2	2	Farmer	12	20	8	2	7	26	75
17	Shri Nopina Marak	-	-	1	-	1	-	-	Farmer	-	3	-	-	2	10	15
18	Shri Mochal Marak	2	2	2	1	7	2	2	Farmer	8	13	3	1	5	14	44
19	Shri Gorang Marak	1	3	1	1	6	1	1	Farmer	6	7	1	-	-	17	31
20	Shri Minggen Sangma	2	2	3	2	9	2	2	Farmer	9	12	4	2	8	19	54
21	Shri Phillip Sangma	4	1	1	1	7	4	1	Farmer	7	14	6	3	9	22	61
22	Shri Suno Sangma	3	3	1	1	8	3	1	Farmer	2	5	2	2	8	24	43
23	Shri Jongchi Marak	2	2		1	5	2	-	Farmer	3	3	-	-	2	6	14
24	Shri Banjing Sangma	2	2	3	2	9	2	3	Farmer	6	14	6	2	4	30	62
25	Shri Namjing Marak	4	4	2	3	13	4	2	Farmer	7	15	7	3	6	32	70
	Grand Total	58	46	44	29	177	55	37		130	225	68	33	91	494	1041

ANNEXURE - II
NO OBJECTION CERTIFICATE

SHRI. MONEN .M. SANGMA
NO. 1 NOKMA
MOUZA NO. IV. ELAKA NO. 48 (4)
EAST GARO HILLS, MEGHALAYA.



TO WHOM IT MAY CONCERN

Anga Shri. Monen Nokma Samanda a.kingni Nokma onge-e village _

Samanda prapgru songona Soil Water Course
revabin Department-na Ba I.W.M.P ingipa
Scheme minggipa schemeo A-kingni ningo donggipa je
kamrangkoba Develop-rangko ka-e on-pachina namnike champengani aro
kangani donggija kusi onge aro been an-senge onenga.

Iako kaket aro bebeo see onenggipa Samanda A-kingni Nokma.

Witness


1.

Shre Monem 

2.

Sija msy 

3.


17/10/2012
Signature
Shri. Monen Sangma
No. 1 Nokma
Samanda A-kingni Land,
East Garo Hills, Meghalaya

ANNEXURE - III

MAPS

