

**GOVERNMENT OF INDIA**



**DETAILED PROJECT REPORT**

**ON**

**WAGECHI NALA MICRO WATERSHED**

**UNDER**

**INTEGRATED WATERSHED MANAGEMENT PROGRAMME(IWMP-I)**

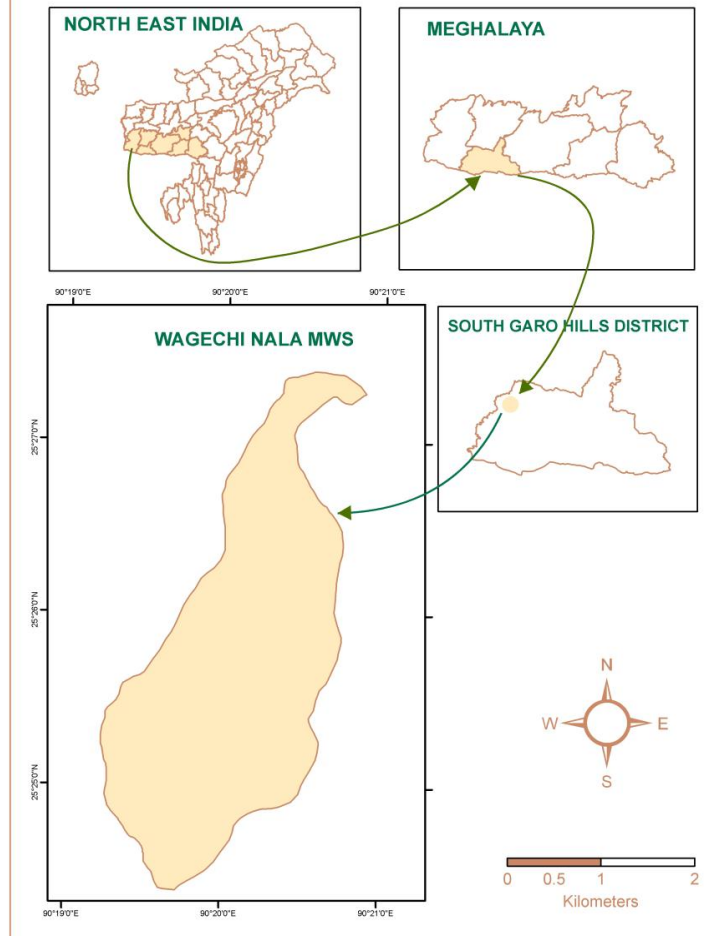
**2009-2010**

**BAGHMARA SOIL & WATER CONSERVATION (CC) DIVISION.**

**SOUTH GARO HILLS**

**MEGHALAYA**

**MAP - A : LOCATION OF THE WAGECHI NALA MWS UNDER IWMP-I  
SOUTH GARO HILLS DISTRICT**



## **SUMMARY**

Name of the State	:	Meghalaya
Name of the District	:	South Garo Hills District
Name of the C&RD Block	:	Chokpot
Name of the Villages	:	(i) Rongdi An'chengre (ii) Wa'gechiringre (iii) Rongchanggre
Name of the Project	:	South Garo Hills – IWMP – I
Total Geographical Area	:	759.97 Ha
Total Treatment Area	:	500 Ha
Total Project Cost	:	75lakhs
Project Duration	:	5 Years
Project Implementing Agency	:	Soil & Water Conservation (Cash Crop) Division, Baghmara.

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# **CHAPTER I**

## **INTRODUCTION AND BACKGROUND**

# CHAPTER I

## INTRODUCTION AND BACKGROUND

### 1.1 Project Background:

The Wagechi Nala Micro (IWMP – I) project is located under Chokpot C&RD Block, South Garo Hills District of Meghalaya. Consisting of a single micro-watershed, the project area is drained by the Wagechi Nala River and its tributaries flowing in a north to south direction. The total area is 759.97 Ha. with 500 to be treated under the Integrated Watershed Management Programme (IWMP).

The Project area is located at a distance of about 28 km from Chokpot C&RD Block. A total of three villages are covered under the project and they are as follows :—

- (i) Rongdi An'chengre
- (ii) Wa'gechiringre
- (iii) Rongchanggre

### 1.2 Micro-watershed Information:

The micro-watershed code is yet to be codified by the North East Space Application Centre (NESAC). The total area of the micro-watershed is 759.97 Ha., with 500 hectares to be treated under the Integrated Watershed Management Programme (IWMP-I).

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

The Wagechi Nala 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 65 households are present with 372 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**

## CHAPTER II

### BASIC INFORMATION OF THE PROJECT AREA

**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 28 km from Chokpot. The geographical location is between 90° 19' 10'' to 90° 20' 28''E Longitude and 25° 24' 15'' to 25° 27' 10''N Latitude. There are three villages within the Watershed which are as follows –

- (i) Rongdi An'chengre
- (ii) Wa'gechiringre
- (iii) Rongchanggre

At present, these villages are connected to kuccha road only.

#### **2.2 Physiography:**

The Topography of the micro-watershed is highly undulating table land tracts with gentle to moderate slopes. The slopes vary from 5% to 15% and 15% to 50%. The lower reaches of the watershed is relatively flat and suitable for Agriculture. The altitude ranges from 220m to 980m 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 15% & 15% to 50%	Micro Watershed	Wagechi Nala Stream	Moderately Sloping

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

**2.4 Soil:** Soil Texture is loamy type with pH value varying from 4.6 to 6.1. The soil has been found to be acidic in nature, mostly high in organic carbon except in jhum cultivated areas, where it is low/high in available phosphorous or high/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: Wagechi Nala**

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)
1	Meghalaya	South Garo Hills	South Garo Hills – IWMP I	Water erosion:				
				a	Sheet	500	2500-4000	10-15
				b	Rill			
				c	Gully			
				Sub 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 warm throughout the winter. The area on the higher reaches is warm during summer and cold during winter. The average annual rainfall is 4400mm.

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

1	2	3	4	5	6	7		8	9	
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 Hyper Thermic Plateau	759.97Ha	South Garo Hills	South Garo Hills – IWMP – I	Fine Loamy	537 Ha	4400 mm	Rice	14.06
									Maize	14.01
									Cucumber	14.01
									Colocasia	14.01
						Cowpea	14.01			
						Pumpkin	14.01			
						Brinjal	14.01			
						Turmeric	14.01			
						Zinger	14.01			
								<b>Total</b>		<b>126.14</b>

**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, pumpkin, cucumber, potato, tapioca, millet, maize, yam and vegetables. Fruit crops are well suited in the lower reaches which include *Mangifera indica*, *Embllica officinalis*, orange, pineapple, jackfruit, litchi etc. The slopes of the Wagechi Nala are also very suitable for betel nut, betel leaf, black pepper, broomstick, 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.)
Rice	14.06	30	421.8
Maize	9.13	12	109.56
Cucumber	9.13	50	456.5
Colocasia	9.13	25	228.25
Cowpea	9.13	4	36.52
Pumpkin	9.13	6	54.78
Brinjal	9.13	35	319.55
Turmeric	9.13	15	136.95
Zinger	9.13	15	136.95
Chilli	9.13	20	182.6
Tapioca	9.13	30	273.9
Total	105.36	242	2357.36

**2.7 Natural Vegetation:** The tree species common to the watershed area includes – *Albizzia procera*, *Schima wallichii*, *Artocarpus chaplasi*, *Dendrocalamus strictus*, *Macaranga denticulate*, *Asparosa roxburghii*, *Bombax cieba*, *Michelia champaca*, *Mangifera indica*, *Delonix regia*, Bamboo spp., *Emblica officinalis*, *Grewia* spp 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 are 65 with a total population of 372, of which 189 are male and 183 are female. The detail of the household in each of the villages in the watershed project is as follows:

<b>Village</b>	<b>No. of Households</b>	<b>No. of Male</b>	<b>No. of Female</b>	<b>Total</b>	<b>Average No. of family</b>
1.Wage chiringgre	17	51	49	100	6
2.Rongdi Anchenggre	32	84	85	169	6
3.Rongchanggre	16	54	49	103	6
<b>Total</b>	65	189	183	372	6

Infrastructure facilities :

- 2.1.1 *Roads:* All the villages within the Project Area are not connected by all weathered condition (pucca) road. The Project area depends entirely on the kuccha road connected to Chokpot.
- 2.1.2 *School:* There is only 3 L.P School within the Project Area run by the Government.
- 2.1.3 *Electricity :* The project area is not 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 has not been provided by the PHE Deptt , the entire populations have to depend on springs available in the area to meet the daily requirement.

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

**Table 2.5: Infrastructure Status: Wagechi Nala**

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 (one)			
		(I)	No. of households without access to drinking water	65			
		(iv)	No. of educational institutions: Primary (P)/ Secondary (S)/ Higher Secondary (HS)/ Vocational institution (VI)	(P)	(S)	(HS)	(VI)
				3	-	-	-
		(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	1 (one)			
		(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
		(xI)	No. of villages with access to Aganwadi Centres	1(one)			
		(xiv)	Any other facilities with no. of villages (please specify)	Nil			



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

**Table 2.6: Existing livestock population**

Type of Animal	Population
Piggery	189
Poultry	319
Goatery	48
Cattle	86
<b>Total</b>	<b>642</b>

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

**2.11 Table 2.7: Land Holding: Wagechi Nala**

1	2	3	4	5	6		
Name of District	Name of the Project	Types of Farmer	No. of households	No. of BPL households	Land holding (ha)		
					Irrigated	Rainfed	Total
South Garo Hills	South Garo Hills – IWMP I	(i) Large	Nil	Nil	Nil	Nil	Nil
		(ii) Small	15	15	Nil	42.144	42.144
		(I) Marginal	50	50	Nil	63.216	63.216
		(iv) Landless	Nil	Nil	Nil	Nil	Nil
		Sub - Total	65	65	Nil	105.36	105.36

**Table 2.5: Common Property Resources in the Project Area: Wagechi Nala**

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)
South Garo Hills	South Garo Hills – IWMP I	(i) Wasteland/ degraded land	Nil	Nil	Nil	260.7	Nil	Nil	Nil	260.7
		(ii) Pastures	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
		(iii) Pvt 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	200	Nil	Nil	Nil	95
		(vi) Village Ponds/ Tanks	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
		(vii) Community Buildings	Nil	Nil	Nil	1(one)	Nil	Nil	Nil	Nil
		(viii) 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	5 No.s (Church)	Nil	Nil	Nil	Nil
		(xi) Others (Pl. specify)	Nil	Nil	Nil	263.89	Nil	Nil	Nil	144.3
		<b>Total</b>	Nil	Nil	Nil	<b>724.59</b>	Nil	Nil	Nil	500

**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	=	3.41 Ha
b) Forest-Densed Closed	=	200 Ha
c) Other Shifting Cultivation Abandoned	=	160 Ha
d) Other Shifting Cultivation Current	=	100.48 Ha
e) Wastelands- Scrub land- Open Shrub	=	<u>260.7 Ha</u>
Total	=	759.97 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. Mention may also be made here that the land use categorized as Tree Clad Area-open in the land use land cover map generated using Satellite Images of 2005-2006 are actually other shifting 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 problem 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**

## CHAPTER I

### 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 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
A.	<b>Planning</b>	
	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
	<b>Remote sensing data-especially soil/ crop/ run-off cover</b>	<b>Yes</b>
	<b>Ridge to Valley treatment</b>	<b>Yes</b>
	<b>Online IT connectivity between</b>	
	<b>(1) Project and DRDA cell/ZP</b>	<b>Yes</b>
	<b>(2) DRDA and SLNA</b>	<b>Yes</b>
	<b>(3) SLNA and DoLR</b>	<b>Yes</b>
	<b>Availability of GIS layers</b>	
	<b>1. Cadastral map</b>	<b>No</b>
	<b>2. Village boundaries</b>	<b>Yes</b>
	<b>3. Drainage</b>	<b>Yes</b>
	<b>4. Soil (Soil nutrient status)</b>	<b>Yes</b>
	<b>5. Land use</b>	<b>Yes</b>
	<b>6. Ground water status</b>	<b>No</b>
	<b>7. Watershed boundaries</b>	<b>Yes</b>
	<b>8. Activity</b>	<b>Yes</b>
	<b>Crop simulation models#</b>	<b>No</b>
	<b>Integrated coupled analyzer/ near infrared visible spectroscopy/ medium spectroscopy for high speed soil nutrient analysis</b>	<b>No</b>
	<b>Normalized difference vegetation index (NDVI)#</b>	<b>Yes</b>
	<b>Weather Stations</b>	<b>No</b>
	<b>Inputs</b>	
	<b>1. Bio-pesticides</b>	<b>No</b>
	<b>2. Organic manures</b>	<b>Yes</b>
	<b>3. Vermi-compost</b>	<b>Yes</b>
	<b>4. Bio-fertilizer</b>	<b>Yes</b>
	<b>5. Water saving devices</b>	<b>No</b>
	<b>6. Mechanized tools/ implements</b>	<b>Yes</b>
	<b>7. Bio-fencing</b>	<b>Yes</b>
	<b>8. Nutrient budgeting</b>	<b>No</b>
	<b>9. Automatic water level recorders &amp; sediment samplers</b>	<b>No</b>
	<b>Any other (please specify)</b>	<b>-</b>

### 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	
South Garo Hills	South Garo Hills– IWMP I	(i) Type of organization#	Government of Meghalaya
		(ii) Name of organization	Soil & Water Conservation (C.C) Division, Baghmara
		(iii) Designation & Address	Divisional Soil & Water Conservation Officer, (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) Wagechi Nala

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

**Table 3.2: Details of Watershed Committees (WC):Wagechi Nala**

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Names of the Districts	Names of projects	Names of WCs	Date of Registration as a Society (dd/mm/yyyy)	Designation	M/F	SC	ST	SF	MF	LF	Land-less	UG	SHG	GP	Any other	Educational Qualification	Function/s assigned#
South Garo Hills District	South Garo Hills District – IWMP – I	WAGEC HI NALA Micro – IWMP-I	15/4/2010	Chairman	M	-	ST							1		Matriculate	A,B,E,G
				Secretary	M	-	ST								1	Matriculate	A ,B,C,D,E,F, G,H
				Member	6M	-	ST		MF				SH G			Class V to X	A,B,E,G
				Member	2F	-	ST									Class V to X	A,B,E,G

- |    |  |    |  |
|----|--|----|--|
| 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:**

1	2	3				4				5			6		
Names of the Districts	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
South Garo Hills	SGH. IWMP I	2	2	-	4	(i) Landless	-	-	-	-	-	-	-	-	-
						(ii) SF	-	-	-	-	-	-	-	-	-
						(I) MF	20	20	40	20	20	40	20	20	40
						(iv) LF	-	-	-	-	-	-	-	-	-

### iii) User Group

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

**Table 3.4: User Group Details**

1	2	3				4				5			6		
Names of 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
South Garo Hills	South Garo Hills- IWMP -I	5	5	26	36	(i) Landless	-	-	-	-	-	-	-	-	-
						(ii) SF	2	-	2	2	-	2	2	-	2
						(I) MF	20	14	34	20	14	34	20	14	34
						(iv) LF	-	-	-	-	-	-	-	-	-
Total		5	5	26	36		22	14	36	22	14	36	22	14	36

## **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
Sl. No.	State	District	Names of Project	Amount earmarked for EPA	Entry Point Activities planned	Estimated cost	Expenditure incurred	Balance	Expected outcome	Actual outcome
1	Meghalaya	South Garo Hills	SGH IWMP-I	Rs 3.0 Lakh	1.Repairing of community hall	1.05	1.05	Nil	NA	NA
					2..Repairing of link Road	1.5	1.5	Nil	NA	NA
					3.Construction of Foot Path	0.45	0.45	Nil	NA	NA
					Total	Rs 3.0	Rs 3.0			

**ii) Other activities of Preparatory Phase:Wagechi Nala**

1	2	3	4	5	6	7	8	9	10	11	12	13
District	Name of Projects	Initiation of village level institution	Capacity building	IEC activities	Baseline survey	Hydro-geological survey	Identifying technical support agencies	Resource agreements	Preparation of DPR	Evaluation of DPR	Any other (please specify)	Cost incurred (Rs. In lakh)
South Garo Hills	South Garo Hills – IWMP-I	Community Organisation	1. For WDT Members 2. For WC 3. For SHGs 4. For Farmers 5. 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: Wagechi Nala

1	2	3	4	5	6			7											
S I. N o	Name of States	Name of Districts	Name of Projects	Type of structures	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 (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 (m³)	Estima ted cost
1	Meghalaya	South Garo Hills	South Garo Hills – IWMP - I	(i) Tank	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(ii) Pond				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(iii) Lake				-	-	-	-	-	-	-	-	-	-	-	-	-	--	-	-
(iv) Check Dam				-	-	-	-	-	-	-	9 Nos.	72	1300	10.80	9 Nos.	72	11700	10.80	
(v) Percolation Tank				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(vi) Channel				-	-	-	-	-	-	-	550 Rm	7.5	-	1.125	550 Rm	7.5	-	1.125	
(vii) Any others (please specify)																			
1 Protection Wall			-	-	-	-	-	-	-	9 Nos	48	-	7.20	9 Nos	48	-	7.20		
2 Water Harvesting			-	-	-	-	-	-	-	9 Nos	45	1236	6.75	9 Nos	25	11124 m³	6.75		
<b>Total</b>										-	-	-	-	<b>27 Nos &amp; 550 Rm</b>	<b>172.5 Ha</b>	<b>2536 m³</b>	<b>25.875</b>	<b>27 Nos &amp; 550 Rm</b>	<b>172.5 Ha</b>

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

8											9	10
Achievement due to project												
Augmentation/ repair of existing structures				Construction of new structures				Total achievement			Change in storage capacity (col 8-6)	Change in irrigated area (ha) Col. (8-6)
No	Area irrigated (ha)	Storage capacity	Expenditure incurred (in lakhs)	No	Area irrigated (ha)	Storage capacity	Expenditure incurred (in lakhs)	Area irrigated (ha)	Storage capacity	Estimated incurred		-
Nil	Nil	Nil	Nil					Nil	22,824 Litres	Rs 17.55 Lakhs	22,824 Litres	Nil
				-	-	-	-					
				-	-	-	-					
				-	-	-	-					
				9 Nos.	72	11700	10.80					
				-	-	-	-					
				550 Rm	7.5	-	1.125					
				9 Nos	48	-	7.20					
				9 Nos	25	11124m <sup>3</sup>	6.75					
				27 Nos & 550 Rm	172.5 Ha	22824 m <sup>3</sup>	25.875					

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

1	2	3	4	5	6		7						8						9				
S. No.	Names of States	Names of Districts	Names of projects	Type of structures	Pre-project		Proposed target						Achievement due to project						Change in irrigated area (Col. 8-6) (ha)				
					No.	Area irrigated (ha)	Augmentation/ repair of existing recharging structures			Construction of new recharging structures			Total target		Augmentation/ repair of existing recharging structures			Construction of new recharging structures			Total achievement		
							No.	Area to be irrigated (ha)	Estimated cost	No.	Area to be irrigated (ha)	Estimated cost	Area to be irrigated (ha)	Estimated cost	No.	Area irrigated (ha)	Expenditure incurred	No.		Area irrigated (ha)	Expenditure incurred	Area irrigated (ha)	Expenditure incurred
	Meghalaya	South Garo Hills	South Garo Hills - IWMP-I	(i)Open wells		Nil		Nil			Nil			Nil			Nil			Nil			
				(ii)Bore wells																			
				(iii)Any others (Pl. specify)																			
				1 CC Check Dam 2 Water Harvesting			9 9		- -	10.80 6.75													
				Total for the project				18		17.55													

#### 4.2.3 Activities executed by User Groups in the Project Areas: Wagechi Nala

	2	3						
Names of Districts	Names of Projects	Major activities of the UGs –Targets				No. of UGs involved	Estimated Cost	Amount of WDF to be collected (Rs.)
		Structure/ activity proposed						
		Sl. No.	Type	No.#	Treatment (ha)			
South Garo Hills	South Garo Hills – IWMP I	1	Protection wall	5	26.66	5	Rs 4.0 Lakhs	Rs 0.2 Lakhs
		2	Water harvesting	5	25	5	Rs 3.75 Lakhs	Rs 0.1875 Lakhs
		3	CC Check dam	5	40	5	Rs 6.0Lakhs	Rs 0.3 Lakhs
		4	Run –off Disposal channel	275 RM	3.75	1	Rs 0.5625 Lakhs	Rs 0.28125 Lakhs

#### 4.2.4 Activities executed by User Groups in the Project Areas: Wagechi Nala

4									
Major activities of the UGs – Achievements									
Structure/ activity				No. of UGs involved	Expenditure incurred (Rs.)	No. of mandays			Amount of WDF collected (Rs.)
Sl. No.	Type	No.#	Treated Area (ha.)			SC	ST	F	
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: Wagechi Nala

1	2	3		
Names of the Districts	Names of projects	Major activities of the SHGs		
		Name of activity	No. of SHGs involved	Average annual income from activity per SHG
South Garo Hills	South Garo Hills – IWMP I	1. Pisciculture	2	Rs 0.75 Lakh (Approx)
		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: Wagechi Nala

4	5				6	7	8			9	10
No. of SHGs given training	Total assistance received by the SHG (Amount in Rs.)				Total annual Income generated (Rs.)	Total annual Savings (Rs.)	No. of SHGs Graded as			Total Amount of loan sanctioned by the bank(s)	No. of SHGs federated
	Loan from revolving fund	Training	Material	Others (pl. specify)			I	II	I		
5	-	3.75	-	-	5.3	-	-	-	-	-	-

#### 4.2.7 Other activities of watershed works phase: Wagechi Nala

1	2	3		4		5		6		7		8		9		10		11		12		13
District	Names of projects	Ridge area treatment		Drainage line treatment		Nursery 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	'	'	'	'	'	'	'	'	'	'	'	'	'	'	
																						57.75

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

1	2	3	4			5			6	7					8							
District	Project	Name of structures	Type of treatment			Type of land			Executing agency	Target					Achievement							
			(i) Ridge area (R)	(ii) Drainage line (D)	(iii) Land Dev. (L)	(i) Private	(ii) Community	(iii) Others (pl. specify)	(i) UG (ii)SHG (iii) Others (pl. specify)	No. of units (No./cum./rmt)	Estimated cost (Rs. in lakh)				Expected month & year of completion (mm/yyyy)	No. of units (No./cu.m./rmt)	Expenditure incurred (Rs. in lakh)				Status of completion	Actual month & year of completion (mm/yyyy)
											M	W	O	T			M	W	O	T		
South Garo Hills	South Garo Hills-IWMP -I	Staggered trenching																				
		Loose boulder																				
		Contour bund																				
		Graded bunding																				
		Protection wall			L	P	C		Beneficiary/UG	9	1.6	2.40		4.0	2012-13	9	1.6	2.40		4.0	2012-13	
		Earthen checks dams																				
		Masonry stop Dams																				
		Gully plug																				
		Gabion structures																				
		Underground dykes																				
		Field bunds																				
		Any others (pl. specify)																				
1.CC Check Dam	R	D		P	C		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		6.75	2012-13		

Contd.

#### 4.2.9 Details of engineering structures in watershed works: Wagechi Nala

9																	
Outcomes																	
Reduction in run off (cu.m)	Area treated# (ha)	Water level (m)		Production (quintal)		Income (Rs.)		Mandays generated					No. of beneficiaries				
		Pre-project	Post project	Pre-project	Post project	Pre-project	Post project	SC	ST	Others (Men)	Women	Total	SC	ST	Others	Women	Total
2000	172.5	1.5	1.3	905	1810	12 Lakhs	25 Lakhs	-	6280	3480	2800	6280	Nil	65	Nil	Nil	65

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

1	2	3	4			5			6	7				8			
District	Project	Name of structure/ work	Type of treatment			Type of land			Executing agency	Target				Achievement			
			(i) Ridge area (R)	(ii) Drainage line (D)	(iii) Land dev. (L)	(i) Private	(ii) Community	(iii) Others (pl. specify)	(i) UG (ii) SHG (iii) Others (pl. specify)	Area (ha)	No. of plants	Estimated cost (Rs. in lakh)	Expected month & year of completion (mm/yyyy)	Area (ha)	No. of plants	Expenditure incurred (Rs. in lakh)	Actual month & year of completion (mm/yyyy)
South Garo Hills	South Garo Hills IWM P-I	Afforestation	✓				✓		UG & SHG	55	5,500	6.171	2012-13	-	-	-	-
		Regeneration												-	-	-	-
		Agro-forestry												-	-	-	-
		Fuel wood															
		Fodder															
		Agro-Horticulture												-	-	-	-
		Pasture dev.															
		Nursery raising				✓				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.): Wagechi Nala

9														
Outcomes														
Reduction in run off (cu.m)	Production (quintal)		Income (Rs.)		Mandays generated					No. of beneficiaries				
	Pre- project	Post project	Pre- project	Post project	SC	S T	Others	Women	Total	SC	ST	Others	Women	Total
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	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

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

1	2	3	4			5	6		7	
District	Project	Name of activity@	Type of land			Executing agency	Target		Achievement	
			(i) Private	(ii) Community	(I) Others (landless)	(i) UG (ii)SHG (I) Others (pl. specify)	Estimated cost (Rs. in lakh)	Expected month & year of completion (mm/yyyy)	Expenditure incurred (Rs. in lakh)	Actual month & year of completion (mm/yyyy)
South Garo Hills	South Garo Hills-IWMP I	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
		Other Livestocks			Nil	WC	Nil	Nil	Nil	Nil
		Fisheries(Pisciculture)	10	Nil	Nil	UG,SHGs, WC	1.58	2012-13	1.58	2012-13
		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 units	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.

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

8											
Outcomes											
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	Nil	4320	Nil	2880	7,200	Nil	65	Nil	Nil	65



### 4.3 Consolidation and withdrawal phase: Wagechi Nala

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

1	2	3	4	5	6				7						
Names of the Districts	Names of projects	Name (s) of the villages	CPR particulars	Activity proposed	Target				Achievement						
					Target area under the activity (ha)	Estimated expenditure (Rs.)	Expected no. of beneficiaries	Estimated contribution to WDF (Rs.)	Area treated under the activity (ha)	Expenditure incurred (Rs.)	Actual no. of beneficiaries	No. of mandays			WDF collected (Rs.)
												S C	ST	F	
South Garo Hills	South Garo Hills-IWMP-I	Wagechi Nala	1 . Protection/ Retaining Wall	Repairing	7	1.05 lakhs	7	0.0525 lakhs	7	1.05	7		378	252	0.0525 lakhs
			2. Water Harvesting Structure	Repairing	8	1.2	8	0.06 Lakhs	8	1.2	8		432	288	0.06 Lakhs
			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 WAGECHI NALA MICRO WATERSHED UNDER IWMP-I

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

*Rs. In Lakhs*


Sl No.	Activities	1st Year		2nd Year		3rd Year		4th Year		5th Year		Total	
		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	<b>MANAGEMENT COST 10 %</b>	0.60	%	2 %		4.30 %		3.10 %				10 %	
A	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
ii	Honourarium of Watershed Volunteers @ Rs 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 of SHG's books, pamphlets, tea, snacks etc.				0.90		0.831		0.469				2.20
	<b>Total of A</b>	9 Mnths	0.45	20 Mnth	1.50	76 Mnth	3.226	51 Mnth	2.3236			156 Mnth	7.5
	<b>PREPARATORY PHASE 4 %</b>	4 %										4 %	
B	Entry Point Activites:												
i	Renovation/ Repairing 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
	<b>Total of B</b>	1 No.	3.00									1 No.	3.00
		2 Km.										2 Km.	

C	<b>Training</b>	<b>5 %</b>	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
ii	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
iv	Taining for SHGs			1 No.	0.25	1 Nos.	0.25			2 Nos.	0.50
v	Taining for Farmers			1 No.	0.20	2 Nos.	0.40			3 Nos.	0.60
vi	Training for Ugs			1 No.	0.35					1 Nos.	0.35
	<b>Total of C</b>	<b>2 Nos</b>	<b>0.30</b>	<b>6 Nos</b>	<b>1.50</b>	<b>8 Nos</b>	<b>1.95</b>			<b>16 Nos.</b>	<b>3.75</b>
D	<b>Detailed Project Report</b>	<b>1 %</b>	1 %							1 %	
i	1 No. of vehicle hiring charge	30 Days	0.50							30 Days	0.50
ii	Detail Base Line Survey, Identification of Engineering Structures, PRA Exercise, Making Estimate & Project Report etc.		0.25								0.25
	<b>Total of D</b>	<b>30 Days</b>	<b>0.75</b>							<b>30 Days</b>	<b>0.75</b>
E	<b>Monitoring &amp; Evaluation</b>	<b>2 %</b>		0.5 %	0.8333 %	0.667 %				2 %	
i	Monitoring			1 No.	0.15	1 No.	0.3125	1 No.	0.25	3 Nos	0.71
ii	Evaluation			1 No.	0.225	1 No.	0.3125	1 No.	0.25	3 Nos	0.79
	<b>Total of E</b>			<b>2 Nos.</b>	<b>0.375</b>	<b>2 Nos</b>	<b>0.63</b>	<b>2 Nos.</b>	<b>0.50</b>	<b>6 Nos</b>	<b>1.500</b>
	<b>Total of I (A to E)</b>	<b>9 Mnths 3 Nos 30 Days</b>	<b>4.50</b>	<b>20 Mnths 8 Nos.</b>	<b>3.38</b>	<b>76 Mnths 10 Nos.</b>	<b>5.801</b>	<b>51 Mnths 2 Nos.</b>	<b>2.8236</b>	<b>156 Mnths 23 Nos. 30 Days</b>	<b>16.50</b>
II	<b>PROJECT COST/ WATERSHED WORKS PHASE</b>			3.168 %	2.2 %	10.132 %				15.5 %	
A.	<b>Non-Arable Land Treatment</b>	<b>15.50 %</b>									
i	Nursery Establishment-Arecanut, 90,900 Nos. 75 Ha @ Rs. 6 / No.							90,900	5.454	90,900	5.454
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
	<b>Total of A</b>			<b>55 Ha.</b>	<b>2.376</b>		<b>1.65</b>	<b>90,900 Nos.</b>	<b>7.599</b>	<b>55 Ha. 90,900 Nos.</b>	<b>11.625</b>
B	<b>Drainage Line Treatment</b>	<b>34.50 %</b>		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 Estimate					550 Rm.	1.125			550 Rm.	1.125
	<b>Total of B</b>					<b>22 Nos. 550 Rm.</b>	<b>21.575</b>	<b>5 Nos.</b>	<b>4.30</b>	<b>27 Nos 550 Rm.</b>	<b>25.875</b>
	<b>Total of A+ B</b>	<b>50 %</b>		<b>55 Ha.</b>	<b>2.376</b>	<b>550 Rm. 22 Nos.</b>	<b>23.225</b>	<b>90,905 Nos.</b>	<b>11.899</b>	<b>550 Rm. 55 Ha. 90,927 Nos.</b>	<b>37.50</b>

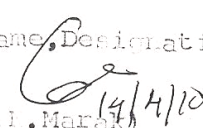
C	<b>Livelihood Activities &amp; Production System and Micro Enterprises</b>	<b>23 % (10+13)</b>			6.332 %		11.298 %		5.36987 %				23 %
i	Rubber Plantation 42 Ha. @ Rs. 28,935												
	a) Pre-Work @ Rs. 7750 /- per Ha.			51.6 Ha	3.999							51.6 Ha	3.9990
	b) 1st Year Planting including cost of Rubber Stump @ Rs. 14,600 /- per Ha.					Mntce	7.534						7.5336
	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 25,000 Nos.	4.749	8 Units 15,000 Nos.	8.474	5 Units 50,000 Nos.	4.027			13 Units 52,651 Nos. 52 Ha.	17.25
D	<b>Consolidation &amp; Exit Phase</b>	<b>5 %</b>								<b>5 %</b>		<b>5 %</b>	
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.R. Marak)  
 The Chair Person of D.M.D.C.  
 & The Deputy Commissioner  
 South Garo Hills, Bagmara.  
 Deputy Commissioner,  
 South Garo Hills,  
 Bagmara.

Signed by (Name, Designation Office)

  
 (L.I. Marak)  
 Divisional Soil & Water Conservation Officer  
 Bagmara Soil Conservation Cash Crop Division  
 South Garo Hills:::Meghalaya.

**VILLAGE PLAN FOR WAGECHI NALA MICRO WATERSHED UNDER IWMP-I, SOUTH GARO HILLS**

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

*Rs. In Lakhs*

Sl No.	Activities	1st Year		2nd Year		3rd Year		4th Year		5th Year		Total	
		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
II	<b>PROJECT COST/ WATERSHED WORKS PHASE</b>			1.09 %		0.76 %		3.41 %				5.27 %	
A.	<b>Non-Arable Land Treatment 5.27 %</b>												
i	Nursery Establishment-Arecanut, 30,300 Nos. 25 Ha @ Rs. 6 /No							30,300	1.818			30,300	1.818
ii	Afforestation (Non Pine) 19 Ha @ Rs. 11,220/-												
	a) Preliminary Year @ Rs. 4,320 /- per Ha			19 Ha.	0.8208							19 Ha.	0.8208
	b) 1st Year Planting @ Rs. 3,000 /- per Ha					Mntce	0.57						0.57
	c) 2nd Year Planting @ Rs. 3,900 /- per Ha							Mntce	0.741				0.741
	Total of A			19 Ha.	0.8208		0.57	30,300	Nos. 2.559			19 Ha. 30,300	3.9498 Nos.
B	<b>Drainage Line Treatment 11.50 %</b>					10.50 %		1.00 %				11.50 %	
ii	Protect/ Retaining Wal @ Rs. 80,000					3 Nos.	2.40					3 Nos.	2.40
iii	Water Harvesting Structure @ Rs. 75,000					2 Nos.	1.50	1 No.	0.75			3 Nos.	2.25
iv	C.C Check Dam @ Rs. 120,000					3 Nos.	3.60		-			3 Nos.	3.60
v	Run-off Disposal/ Diversion Channel as per Estimate					183 Rm.	0.375					183 Rm.	0.375
	Total of B					8 Nos. 183 Rm.	7.88	1 No.	0.75			9 Nos. 183 Rm.	8.625
	Total of A+ B 17 %			19 Ha.	0.8208	8 Nos. 183 Rm.	8.445	30,301	Nos. 3.309			19 Ha. 30,309	12.5748 Nos.
C	<b>Livelihood Activities &amp; 8.0091 %</b>			2.78 %		3.59 %		2 %				8.00909 %	
	<b>Production System and Micro Enterprises</b>												
i	Rubber Plantation 17.2 Ha. @ Rs. 28,935												
	a) Pre-Work @ Rs. 7750 /- per Ha.			17.2 Ha	1.33							17.2 Ha	1.33
	b) 1st Year Planting including cost of Rubber Stump @ Rs. 14,600 /- per Ha.					Mntce	2.51						2.51
	c) 2nd Year Planting @ Rs. 6,585 /- per Ha.							Mntce	1.133				1.133
i	Pisciculture @ Rs. 3 /-			25,000	0.75		-		-			25,000	0.75
ii	Carpentry 1 Unit @ Rs. 8,000					1 Unit	0.08					1 Unit	0.08
iii	Kitchen Gardening @ Rs. 5,000 /- per unit					2 Units	0.10	2 Units	0.10			4 Units	0.20
	Total of C			25,000 17.2 Ha	Nos. 2.083	3 Units	2.6912	2 Units	1.23262			5 Units 17.2 Ha	Nos. 6.00682
	Grand Total			36 Ha 25,000 Nos	4.17	3 Units 8 Nos. 183 Rm	2.691	2 Units 30,301	Nos. 4.54162			5 Units 55,309 36 Ha	18.58162 Nos.

**VILLAGE PLAN FOR WAGECHI NALA MICRO WATERSHED UNDER IWMP-I, SOUTH GARO HILLS**

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

*Rs. In Lakhs*

Sl No.	Activities	1st Year		2nd Year		3rd Year		4th Year		5th Year		Total	
		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
II	<b>PROJECT COST/ WATERSHED WORKS PHASE</b>			1.04 %		0.72 %		3.36 %				5.12 %	
A.	<b>Non-Arable Land Treatment 5.12 %</b>												
i	Nursery Establishment-Arecanut, 30,300 Nos. 25 Ha @ Rs. 6 / No							30,300	1.8180			30,300	1.8180
ii	Afforestation (Non Pine) 18 Ha @ Rs. 11,220/-												
	a) Preliminary Year @ Rs. 4,320 /- per Ha			18 Ha.	0.7776							18 Ha.	0.78
	b) 1st Year Planting @ Rs. 3,000 /- per Ha					Mntce	0.54						0.54
	c) 2nd Year Planting @ Rs. 3,900 /- per Ha							Mntce	0.702				0.702
	Total of A			18 Ha.	0.7776		0.54	30,300	Nos.	2.52		18 Ha.	3.8376
												30,300	Nos.
B	<b>Drainage Line Treatment 11.50 %</b>					7.83 %		3.667 %				11.50 %	
ii	Protect/ Retaining Wal @ Rs. 80,000					2 Nos.	1.60	1 No.	0.80			3 Nos.	2.40
iii	Water Harvesting Structure @ Rs. 75,000					2 Nos.	1.50	1 No.	0.75			3 No.	2.25
iv	C.C Check Dam @ Rs. 120,000					2 Nos.	2.40	1 No.	1.20			3 Nos.	3.60
v	Run-off Disposal/ Diversion Channel as per Estimate					183 Rm.	0.375					183 Rm.	0.375
	Total of B					6 Nos. 183 Rm.	5.88	3 Nos.	2.75			9 Nos 183 Rm.	8.625
	Total of A+ B 17 %			18 Ha.	0.7776	183 Rm. 6 Nos.	6.415		5.27			183 Rm. 18 Ha.	12.4626
								30,303	Nos.			30,309	Nos.
C	<b>Livelihood Activities &amp; 7.9424 %</b>			1.78 %		4.59 %		1.58 %				7.94243 %	
	<b>Production System and Micro Enterprises</b>												
i	Rubber Plantation 17.2 Ha. @ Rs. 28,935												
	a) Pre-Work @ Rs. 7750 /- per Ha.			17.2 Ha	1.33							17.2 Ha	1.33
	b) 1st Year Planting including cost of Rubber Stump @ Rs. 14,600 /- per Ha.					Mntce	2.511						2.511
	c) 2nd Year Planting @ Rs. 6,585 /- per Ha.							Mntce	1.1326				1.1326
i	Pisciculture @ Rs. 5 /-					15,000	0.75					15,000	0.75
ii	Carpentry 1 Unit @ Rs. 8,000					1 Unit	0.080					1 Unit	0.08
iii	Kitchen Gardening @ Rs. 5,000 /- per unit					2 Units	0.10	1 Unit	0.05			3 Units	0.15
	Total of C				1.33	3 Units 15,000	3.441	1 Unit	1.1826			4 Units 15,000	5.95682
	Grand Total			35 Ha	2.1106	3 Units 183 Rm 15,006	Nos. 9.8562	1 Unit	6.45262			4 Units 183 Rm 15,006	Nos. 18.41942

**VILLAGE PLAN FOR WAGECHI NALA MICRO WATERSHED UNDER IWMP-I, SOUTH GARO HILLS**

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

*Rs. In Lakhs*

Sl No.	Activities	1st Year		2nd Year		3rd Year		4th Year		5th Year		Total	
		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
II	<b>PROJECT COST/ WATERSHED WORKS PHASE</b>			1.04	%	0.72	%	3.36	%			5.12	%
A.	<b>Non-Arable Land Treatment 5.12 %</b>												
i	Nursery Establishment-Arecanut, 30,300 Nos. 25 Ha @ Rs. 6 /No							30,300	1.8180			30,300	1.8180
ii	Afforestation (Non Pine) 18 Ha @ Rs. 11,220/-												
	a) Preliminary Year @ Rs. 4,320 /- per Ha			18 Ha.	0.7776							18 Ha.	0.7776
	b) 1st Year Planting @ Rs. 3,000 /- per Ha					Mntce	0.54						0.54
	c) 2nd Year Planting @ Rs. 3,900 /- per Ha							Mntce	0.702				0.702
	Total of A			18 Ha.	0.7776		0.54	30,300	2.5200			18 Ha.	3.8376
								Nos.				30,300	Nos.
B	<b>Drainage Line Treatment 11.5000 %</b>					10.43	%	1	%			11.5000	%
ii	Protect/ Retaining Wal @ Rs. 80,000					2 Nos.	1.60	1 No.	0.80			3 Nos.	2.40
iii	Water Harvesting Structure @ Rs. 75,000					3 Nos.	2.25		-			3 Nos.	2.25
iv	C.C Check Dam @ Rs. 120,000					3 Nos.	3.60		-			3 Nos.	3.60
v	Run-off Disposal/ Diversion Channel as per Estimate					184 Rm.	0.375					184 Rm.	0.375
	Total of B					8 Nos. 184 Rm.	7.825	1 No.	0.80			9 Nos. 184 Rm.	8.625
	Total of A+ B 17 %			18 Ha. 0 No.	0.7776	184 Rm. 8 Nos.	8.365		3.3200			184 Rm. 18 Ha. 30,309	12.4626
								Nos.				Nos.	
C	<b>Livelihood Activities &amp; 7.7858 %</b>			1.78	%	3.52	%	2.49	%			7.7858	%
	<b>Production System and Micro Enterprises</b>												
i	Rubber Plantation 17.2 Ha. @ Rs. 28,935												
	a) Pre-Work @ Rs. 7750 /- per Ha.			17.2 Ha	1.3330							17.2 Ha	1.3330
	b) 1st Year Planting including cost of Rubber Stump @ Rs. 14,600 /- per Ha.					Mntce	2.511						2.511
	c) 2nd Year Planting @ Rs. 6,585 /- per Ha.							Mntce	1.13262				1.13262
i	Pisciculture @ Rs. 5 /-							12,651	0.63			12,651	0.63
ii	Carpentry 1 Unit @ Rs. 8,000					1 Unit	0.080					1 Units	0.080
iii	Kitchen Gardening @ Rs. 5,000 /- per unit					1 Unit	0.05	2 Units	0.10			3 Units	0.15
	Total of C			17.2 Ha	1.3330	2 Units 0 Nos.	2.64	2 Unit	1.86517			4 Units 12,651	5.83937
												Nos.	
	Grand Total			35 Ha	2.1106	2 Units 184 Rm 8 Nos	11.006	2 Unit	5.18517			4 Units 184 Rm 30,309	18.30197
								Nos				Nos.	



**ABSTRACT OF PERSPECTIVE PLAN FOR CONVERGENCE OF NREGS WITH IWMP 2009-10**  
**AT WAGECHIRINGGRE, RONGDI ANCHENGRE, & RONGCHANGGRE VILLAGE UNDER WAGECHI NALA MICRO WATERSHED,SGH - IWMP-I**

Name of Village : Wagechiringgre, Rongdi Anchenggre &  
Rongchanggre

Total No. of Job Card Holder : 65 Households

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. 247,656
Total Wage Component @ Rs 117/- per annum in the 4th year	Rs.
<b>Total Wage Component</b>	<b>= Rs. 10,63,134</b>

Sl No	Activities	Units	PROJECT PERIOD												Total				Mandays to be Generated
			2011-12			2012-13			2013-14			2014-15							
			Phy	Financial		Phy	Financial		Phy	Financial		Phy	Financial		Phy	Financial			
				Wages	Material		Wages	Material		Wages	Material		Wages	Material		Wages	Material	Total	
1	Afforestation @ Rs. 11,220	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
2	Rubber Plantation @ Rs. 28935 per Ha.	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
3	Protection Wall/Retaining Wall @ Rs. 80,000/-	Nos.				2	96,000	64,000	1	48,000	32,000				3	1,44,000	96000	240000	1231
4	Water Harvesting @ Rs. 75,000/-	Nos.				2	90,000	60,000	1	45,000	30,000				3	135000	90000	225000	1154
5	CC Check Dam @ Rs. 1,20,000/-	Nos.				3	2,16,000	1,44,000							3	216000	144000	3,60,000	1846
	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	Ha		17	Ha		14	Ha.					46.5	Ha.			

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

1. Wage Component Rs 10,63,134

2. Material Component Rs. 7,08,756

**Grand Total Rs. 17,71,890**

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

*Arson Marak*  
President  
Wagechiringgre V.E.C.  
South Garo Hills

President  
Wage Chiringgre VEC  
Chokpot C&RD Block  
South Garo Hills

*Countersigned*  
*Arson*  
Deputy Commissioner  
South Garo Hills  
Baghmara

*Babul M Sangma*  
Secretary  
Wage Chiringgre VEC  
Chokpot C&RD Block  
South Garo Hills

57 55 57

**ABSTRACT OF PERSPECTIVE PLAN FOR CONVERGENCE OF NREGS WITH IWMP 2009-10**  
**AT WAGECHIRINGGRE, RONGDI ANCHENGGRE, & RONGCHANGGRE VILLAGE UNDER WAGECHI NALA MICRO WATERSHED,SGH - IWMP-I**

Name of Village : Rongchanggre

Total No. of Job Card Holder : 16 Households

Total Wage Component @ Rs 117/- per annum in the 1st year	Rs.	68,913
Total Wage Component @ Rs 117/- per annum in the 2nd year	Rs.	1,85,913
Total Wage Component @ Rs 117/- per annum in the 3rd year	Rs.	99552
Total Wage Component @ Rs 117/- per annum in the 4th year	Rs.	
<b>Total Wage Component</b>	<b>=</b>	<b>Rs. 3,54,378</b>

Sl No	Activities	Units	PROJECT PERIOD												Total				Mandays to be Generated
			2011-12			2012-13			2013-14			2014-15							
			Phy	Financial		Phy	Financial		Phy	Financial		Phy	Financial		Phy	Financial			
				Wages	Material		Wages	Material		Wages	Material		Wages	Material		Wages	Material	Total	
1	Afforestation @ Rs. 11,220	Nos.	2.5	16,830	11,220	2.5	16,830	11,220	2.5	16,830	11,220				7.5	50,490	33,660	84,150	432
2	Rubber Plantation @ Rs. 28935 per Ha.	Ha.	3	52,083	34,722	3	52,083	34,722	2	34,722	23,148				8	1,38,888	92,592	231480	1187
3	Protection Wall/Retaining Wall @ Rs. 80,000/-	Nos.							1	48,000	32,000				1	48,000	32000	80000	410
4	Water Harvesting @ Rs. 75,000/-	Nos.				1	45,000	30,000							1	45000	30000	75000	385
5	CC Check Dam @ Rs. 1,20,000/-	Nos.				1	72,000	48,000							1	72000	48000	3,60,000	615
	Total			68,913	45,942	2	1,85,913	1,23,942	1	99,552	66,368				3	3,54,378	2,36,252	8,30,630	3029
			5.5	Ha		5.5	Ha		4.5	Ha.					15.5	Ha.			

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

1. Wage Component	Rs	3,54,378
2. Material Component	Rs.	2,36,252
<b>Grand Total</b>	<b>Rs.</b>	<b>5,90,630</b>

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

*Witter ch murach*  
*all*  
 Rongchanggre V.E.C. (MREGS)  
 Chokpot C & RD Block  
 South Garo Hills.  
 President  
 Rongchanggre VEC  
 Chokpot C&RD Block  
 South Garo Hills

*Countersigned*  
*Unad*  
 Rongchanggre V.E.C. (MREGS)  
 Chokpot C & RD Block  
 South Garo Hills

*Shri Richard A. Langua*  
*Signature*  
 Secretary,  
 Rongchanggre V.E.C. (MREGS)  
 Chokpot C & RD. Block  
 South Garo Hills.  
 Secretary  
 Rongchanggre VEC  
 Chokpot C&RD Block  
 South Garo Hills

**ABSTRACT OF PERSPECTIVE PLAN FOR CONVERGENCE OF NREGS WITH IWMP 2009-10  
AT WAGECHIRINGGRE, RONGDI ANCHENGGRE, & RONGCHANGGRE VILLAGE UNDER WAGECHI NALA MICRO WATERSHED,SGH - IWMP-I**

Name of Village : Rongdi Anchenggre

Total No. of Job Card Holder : 32 Households

Total Wage Component @ Rs 117/- per annum in the 1st year	Rs.	68,913
Total Wage Component @ Rs 117/- per annum in the 2nd year	Rs.	2,33,913
Total Wage Component @ Rs 117/- per annum in the 3rd year	Rs.	51552
Total Wage Component @ Rs 117/- per annum in the 4th year	Rs.	
<b>Total Wage Component</b>	<b>=</b>	<b>Rs. 3,54,378</b>

Sl No	Activities	Units	PROJECT PERIOD												Total			Mandays to be Generated	
			2011-12			2012-13			2013-14			2014-15							
			Phy	Financial		Phy	Financial		Phy	Financial		Phy	Financial		Phy	Financial			
				Wages	Material		Wages	Material		Wages	Material		Wages	Material		Wages	Material	Total	
1	Afforestation @ Rs. 11,220	Nos.	2.5	16,830	11,220	2.5	16,830	11,220	2.5	16,830	11,220				7.5	50,490	33,660	84,150	432
2	Rubber Plantation @ Rs. 28935 per Ha.	Ha.	3	52,083	34,722	3	52,083	34,722	2	34,722	23,148				8	1,38,888	92,592	231480	1187
3	Protection Wall/Retaining Wall @ Rs. 80,000/-	Nos.				1	48,000	32,000							1	48,000	32000	80000	410
4	Water Harvesting @ Rs. 75,000/-	Nos.				1	45,000	30,000							1	45000	30000	75000	385
5	CC Check Dam @ Rs. 1,20,000/-	Nos.				1	72,000	48,000							1	72000	48000	3,60,000	615
	Total			68,913	45,942	3	2,33,913	1,55,942		51,552	34,368				3	3,54,378	2,36,252	8,30,630	3029
			5.5	Ha		5.5	Ha		4.5	Ha.					15.5	Ha.			

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

1. Wage Component Rs 3,54,378

2. Material Component Rs. 2,36,252

**Grand Total Rs. 5,90,630**

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

*Shri Manuendra Sayan*

*President*

Rongdi Anchenggre V.E.C,  
South Garo Hills,

President  
Rongdi Anchenggre VEC  
Chokpot C&RD Block  
South Garo Hills

*Co-sitersigned.*

*Manab*

Deputy Commissioner  
South Garo Hills,  
Baghmara.

*Secretary*

Secretary  
Rongdi Anchenggre V.E.C  
South Garo Hills.

Secretary  
Rongdi Anchenggre VEC  
Chokpot C&RD Block  
South Garo Hills

**ABSTRACT OF PERSPECTIVE PLAN FOR CONVERGENCE OF NREGS WITH IWMP 2009-10  
AT WAGECHIRINGGRE, RONGDI ANCHENGRE, & RONGCHANGRE VILLAGE UNDER WAGECHI NALA MICRO WATERSHED,SGH - IWMP-I**

Name of Village : Wagechiringgre

Total No. of Job Card Holder : 17 Households

Total Wage Component @ Rs 117/- per annum in the 1st year	Rs. 68,913
Total Wage Component @ Rs 117/- per annum in the 2nd year	Rs. 1,88,913
Total Wage Component @ Rs 117/- per annum in the 3rd year	Rs. 96552
Total Wage Component @ Rs 117/- per annum in the 4th year	Rs. _____
<b>Total Wage Component</b>	<b>= Rs. 3,54,378</b>

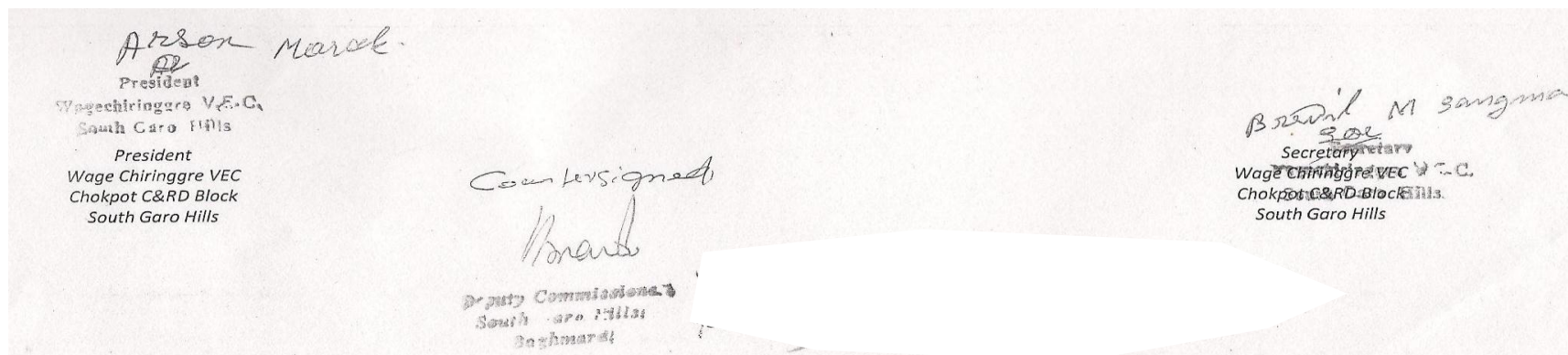
Sl No	Activities	Units	PROJECT PERIOD												Total				Mandays to be Generated
			2011-12			2012-13			2013-14			2014-15							
			Phy	Financial		Phy	Financial		Phy	Financial		Phy	Financial		Phy	Financial			
				Wages	Material		Wages	Material		Wages	Material		Wages	Material		Wages	Material	Total	
1	Afforestation @ Rs. 11,220	Nos.	2.5	16,830	11,220	2.5	16,830	11,220	2.5	16,830	11,220				7.5	50,490	33,660	84,150	432
2	Rubber Plantation @ Rs. 28935 per Ha.	Ha.	3	52,083	34,722	3	52,083	34,722	2	34,722	23,148				8	1,38,888	92,592	231480	1187
3	Protection Wall/Retaining Wall @ Rs. 80,000/-	Nos.				1	48,000	32,000							1	48,000	32000	80000	410
4	Water Harvesting @ Rs. 75,000/-	Nos.							1	45,000	30,000				1	45000	30000	75000	385
5	CC Check Dam @ Rs. 1,20,000/-	Nos.				1	72,000	48,000							1	72000	48000	3,60,000	615
	Total			68,913	45,942	2	1,88,913	1,25,942	1	96,552	64,368				3	3,54,378	2,36,252	8,30,630	3029
			5.5	Ha		5.5	Ha		4.5	Ha.					15.5	Ha.			

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

1. Wage Component	Rs	3,54,378
2. Material Component	Rs.	2,36,252

**Grand Total Rs. 5,90,630**

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



### Details of the types of areas covered under the IWMP Programme: Wagechi Nala

1	2	3	4	5	6		7	8	9	10				11				
S L N o	Name of State	Name of Districts	Names of Projects	Year of sanction	Project duration (dd/mm/yyyy)		Area of the projects	Project cost (Rs. In lakh)	Names of Micro watersheds & Code nos. (as per DoLR's unique codification)	Area (ha) of the projects				Area details (ha) (falling within the projects)				
					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					
1	Meghalaya	South Garo Hills	South Garo Hills – IWMP I	2009-10	2009-10	2013-14	759.97 Ha	75 Lakhs	Wagechi Nala Micro W/shed NA	105.36	Nil	394.64	Nil	15	200	125	160	500

**Fund provision for the IWMP projects from all sources: Wagechi Nala**

1	2	3		4										5
Distri ct	Name of Project s	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 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: Wagechi Nala

1	2	3	4	5				6				
Sl. No.	Names of States	Name of Districts	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.
1	Meghalaya	South Garo Hills	South Garo Hills – IWMP I	State Bank of India, Baghmara Branch	31514751840	Zero Balance Account	Shri L.N Marak, DS&WCO	Wagechi Nala Micro Watershed Committee	SBI, Baghmara	31514751840	Saving	Shri Cinto Ch Marak (Chairman of Wagechi Nala Micro Watershed ) & Abel Sangma (Secy)

### Details of Convergence of IWMP with other Schemes: Wagechi Nala

	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	Reference no. of activity/ task/ structure in DPR <sup>@</sup>	Level at which decision for convergence was taken <sup>\$</sup>
					(a) Structures (b) livelihoods (c ) Any other (pl. specify) <sup>#</sup>		
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: Rongchanggre, Rondi Anchenggre and Wagechiringgre Villages**

( a)Afforestation 22.5 ha.	Wages-1.5147 Lakhs;	Material- 1.0098 Lakhs;
(b)Rubber Plantation 24 ha.	Wages-4.16664 Lakhs;	Material-2.77776 Lakhs;
(c)Protection Wall/Retaining Wall 3 nos	Wages-1.44 Lakhs;	Material-0.90 Lakhs;
(d)CC. Check Dam 3 nos	Wages-2.16 Lakhs;	Material-1.44 Lakhs;
(e)Water Harvesting 3 nos	Wages-1.35 Lakhs;	Material- 0.90 Lakhs;



# Public-Private Partnership in the IWMP projects: Wagechi Nala

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

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

1	2	3	4	5	6	7	8	9				
S. No	State	Name of the Training Institute	Full Address with contact no., website & e-mail	Name & Designation of the Head of Institute	Type of Institute <sup>#</sup>	Area(s) of specialization <sup>\$</sup>	Accreditation details	Performance				
								Refer-ence Year	No. of trainings assigned	No. of trainees to be trained	No. of trainings conducted	No. of trainees 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	Training & 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	-	-	-	-	-	-

- 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)

<sup>\$</sup> Capacity Building/ Agriculture/ Horticulture/ Animal Husbandry/ Pisciculture/ Remote Sensing/ Water conservation/ Ground water/ Forestry/ livelihoods/ entrepreneurship development/ others (pl. specify)

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

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

**Table 6.2: Capacity Building activities for the year 2009 – 10 as on 31/01/2010 (dd/mm/yyyy)\*Wagechi Nala**

1	2	3	4	5	6		7	
Project Stakeholders	Total no. of persons	No. of persons trained so far	No. of persons to be trained during current financial year	No. of persons trained during current financial year	Sources of funding for training		Funds utilized (Lakhs)	
					a) DoLR	b) Any other (Pl. specify)	a) DoLR	b) Any other (Pl. specify)
SLNA	-	-	-	-	3.75	-	1.50	-
DRDA/ZP cell	-	-	-	-				
PIAs	40	5	16	5				
WDTs	2	-	2	-				
UGs	65	-	65	Nil				
SHGs	40	-	40	-				
WCs	12	-	12	12				
GPs	-	-	-	-				
Community	372	-	65	65				
Others Pl. specify)	-	-	40 (Farmers)	-	-	-	-	-

**Table 6.3: Information, Education & Communication (IEC) activities for the year 2009-10 as on 31/01/10 (dd/mm/yyyy)\*-Wagechi Nala**

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

**CHAPTER VII**  
**EXPECTED OUTCOME**

## CHAPTER VII EXPECTED OUTCOME

**Table 7.1 Employment related outcomes: Wagechi Nala**

SI No	Name of Village	1										2				
		Wage employment										Self employment				
		No. of mandays					No. of beneficiaries					No. of beneficiaries				
		SC	ST	Others (Men)	Women	Total	SC	ST	Others(Men)	Women	Total	SC	ST	Others(Men)	Women	Total
1.	Rongdi An'chengre	-	100%	3735	2490	6225	-	100%	60	40	100	-	100%	20	12	32
2.	Wa'gechiringre	-	100%	3734	2490	6224	-	100%	45	30	75	-	100%	10	7	17
3.	Rongchanggre	-	100%	3734	2490	6224	-	100%	48	32	80	-	100%	9	7	16

**Table 7.2 Migration Details: Wagechi Nala**

1	2	3	4	5	6	7	8	9	10	
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)	For reduced migration identify major activities of IWMP responsible	
									(a) Structures	(b) Livelihoods
South Garo Hills	SGH-IWMP-I	1.Rongdi Anchenggre 2.Wage Chiringgre 3.Rongchanggre		N	I	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 from column no. 11, average income from occupation during migration, for the entire country may be given at the end of the Table.



**Table 7.3 Economic benefits accrued to women: Wagechi Nala**

<b>1</b>		<b>2</b>		<b>3</b>		<b>4</b>
<b>Wages</b>		<b>Training</b>		<b>Livelihoods</b>		<b>Total (Rs. in lakh)</b>
<b>Woman days</b>	<b>Amount (Rs. in lakh)</b>	<b>No. of women participants</b>	<b>Amount (Rs. in lakh)</b>	<b>No. of women beneficiaries</b>	<b>Value of assistance provided (Rs. in lakh)</b>	
9600	16	80	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: Wagechi Nala**

1	2	3	4	5	6	7				8
Names of the Districts	Names of the projects	Names of the villages	Particular of CPR	Nature of right	Period of right	Beneficiary details (no. of families)				User Charges (Rs.)
						SC	St	Others	Total	
South Garo Hills District	SGH-IWMP-I	Wagechiringgre, Rongchanggre & Rongdi Anchenggre	Community Forest	Fw	6 months	-	65	-	65	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
P	for right to	passage across the CPR
Rd	for right to	construct a road for access to individual property
S/M	for right to	collect and sell sand and minerals
T	for right to	collect timber for construction of house
Wd	for right to	collect/ use water for drinking
Wi	for right to	use water for irrigation
O	for any right other than indicated above (please specify)	

**Table 7.5 Water related outcomes: Wagechi Nala**

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

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

\* 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: Wagechi Nala**

1	2	3			4			5
District	Name of the project	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	
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: Wagechi Nala**

1	2	3	4			
District	Name of the project	Name of major crop	Water savings in cu.m.			
			through water saving devices <sup>\$</sup>	through water conserving agronomic practices <sup>#</sup>	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.

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

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

**Table 7.6: Vegetation/ crop related outcomes: Wagechi Nala**

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

1	2	3	4						5						6					
Names of the Districts	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.
South Garo Hills District	SGH-IWMP-I	Rice		14.06	-	15	-	210.9	-	10	-	18	-	180	-	8	-	20	-	160
		Maize		9.13	-	6	-	54.78	-	10	-	8	-	80	-	8	-	10	-	80
		Cucumber		9.13	-	35	-	319.55	-	10	-	40	-	400	-	8	-	42	-	336
		Colocasia		9.13	-	35	-	319.55	-	10	-	40	-	400	-	8	-	42	-	336
		Cowpea		9.13	-	15	-	136.95	-	10	-	18	-	180	-	8	-	20	-	160
		Pumpkin		9.13	-	50	-	456.5	-	10	-	52	-	520	-	8	-	54	-	432
		Brinjal		9.13	-	20	-	182.6	-	10	-	25	-	250	-	8	-	30	-	240
		Turmeric		9.13	-	30	-	273.9	-	10	-	33	-	330	-	8	-	36	-	288
		Ginger		9.13	-	25	-	228.25	-	10	-	27	-	270	-	8	-	30	-	240
		Chilli		9.13	-	4	-	36.52	-	10	-	7	-	70	-	8	-	10	-	80
		Tapioca		9.13	-	30	-	273.9	-	10	-	35	-	350	-	8	-	38	-	304
		Total		105.36		265		2493.4		110		303		3030		88		332		2656

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

Irri. – Irrigated Rf – Rainfed

**Table 7.6.2 Details of Rabi crop area and yield in the project areas:Wagechi Nala**

1	2	3	4	5	6						7						8					
Sl No.	Names of States	Names of the Districts	Name of Projects	Name of crops	Pre-project						Mid-term						Post-project					
					Area (ha)		Average Yield (Qtl) per ha.		Total Producti on (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.
	Meghalaya	South Garo Hills District	SGH-IWMP I	1.Cabbage	-	-	-	-	-	-	1.3	-	277	-	360	-	1.5	-	333	-	500	-
				2.Cauliflower	-	-	-	-	-	-	1.3	-	277	-	360	-	1.5	-	333	-	500	-
				3 Knolkhol	-	-	-	-	-	-	1.3	-	200	-	260	-	1.5	-	260	-	390	-
				4.Broccoli	-	-	-	-	-	-	1.3	-	180	-	234	-	1.5	-	210	-	315	-
			Total for the District																			

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

Irri. – Irrigated Rf – Rainfed

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

1	2	3	4	5	6						7						8					
Sl No.	Names of States	Names of the Districts	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.
	Meghalaya	South Garo Hills District	SGH-IWMP I	Maize		9.13		6		54.78		3		7		21		3		8		24
			Total for the District																			

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

Irri. – Irrigated Rf – Rainfed

**Table 7.6.4 Increase/ Decrease in area under fodder: Wagechi Nala**

1	2	3	4			5		
District	Name of project	Duration of Project	Existing area under fodder (ha)			Achievement (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
South Garo Hills District	SGH-IWMP I			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: Wagechi Nala**

1	2	3	4			5		
District	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
South Garo Hills District	SGH-IWMP I	5yrs(2009-10 to 2013-14)	LULC Map, NESAC, Umiam	2005-06	200	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: Wagechi Nala**

1	2	3	4			5		
District	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
South Garo Hills District	SGH-IWMP I	5yrs(2009-10 to 2013-14)	LULC Map, NESAC, Umiam	2005-06	Nil	126.6	126.6	226.6

\* 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 fuel-wood: Wagechi Nala**

1	2	3	4			5		
District	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
South Garo Hills District	SGH-IWMP I	5yrs(2009-10 to 2013-14)	LULC Map, NESAC, Umiam	2005-06	-	-	-	-

\* 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: Wagechi Nala**

**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.):

1	2	3	4			5			6			7
Names of the Districts	Name of Projects	Type of Animal	Pre-project			Mid-term			Post-project			Remarks
			No.	Yield	Income	No.	Yield	Income	No.	Yield	Income	
South Garo Hills District	SGH-IWMP-II	Cattle	86	4128	6.19	90	4320	6.48	97	4656	6.98	
		Goat	48	720	1.80	50	750	1.88	55	825	2.06	
		Poultry	319	287.1	0.37	335	301.5	0.39	350	315	0.41	
		Piggery	189	4536	7.26	193	4632	7.41	205	4920	7.87	
	Total for all projects											
Total for all Districts												

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

**Table 7.7.2 Details of other livelihoods created for landless people: Wagechi Nala**

1	2	3	4	5				6	7					8				
District	Project	Name of activity	Fund required for the activity (Rs.)	Sources of funding (Rs.)				Actual Expenditure incurred on activity (Rs.)	No. of beneficiaries trained					No. of beneficiaries taking up activity				
				Project Fund	Beneficiary	Others (pl. specify)	Total		SC	ST	Others	Women	Total	SC	ST	Others	Women	Total
South Garo Hills District	SGH-IWM P I	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

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: Wagechi Nala**

9		10	11				12
No. of persons employed indirectly in the activity		Annual increase in income due to activity (Rs.)	Impact of livelihoods programme				Any other information (pl. Specify)
			Migration (No. of beneficiaries)		Development of backward-forward linkages		
Total	Grand Total (8+9)		Pre-project	Post-project	Pre-project	Post-project	
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

**Table 7.7.4 Details of other livelihoods created for farmers: Wagechi Nala**

1	2	3	4	5				6	7				8			
District	Project	Name of activity	Fund required for the activity (Rs.) in lakhs	Sources of funding (Rs.) in Lakhs				Actual Expenditure incurred on activity (Rs.)	No. of farmers trained				No. of farmers taking up activity			
				Project Fund	Benefi-ciary	Oth ers (pl. spec ify)	Total		SF	MF	LF	Total	SF	MF	LF	Total
South Garo Hills District	SGH-IWMP I	1. Pisciculture	1.659	1.58	0.079	-	1.659	1.58	15	80	-	95	5	60	-	65
		2. Rubber	15.6805	14.9305	0.75	-	15.6805	14.9305	15	80	-	95	5	60	-	65
		3. Carpentry	0.240	0.240	-	-	0.240	0.240	15	80	-	95	5	60	-	65
		4.Kitchen Gardening	0.525	0.5	0.025	-	0.525	0.5	15	80	-	95	5	60	-	65

\* 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 persons employed indirectly in the activity		Annual increase in income due to activity (Rs.)	Impact of livelihoods programme				Any other information (pl. Specify)
			Migration (No. of beneficiaries)		Development of backward-forward linkages		
Total	Grand Total (8+9)		Pre-project	Post-project	Pre-project	Post-project	
20	30	35,000	-	-	-	-	-
70	150	60,000	-	-	-	-	-
10	15	35,000	-	-	-	-	-
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.)
South Garo Hills District	SGH-IWMP I	<b>(A) Backward linkages</b>			
		(i) Seed certification	-	-	-
		(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)	-	-	-
		<b>(A) Forward linkages</b>			
		(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: Wagechi Nala**

1	2	3	4	5	6	7
Sl. No.	State	Item	Unit	Pre-project Status	Post-project Status	Remarks
		Status of water table	Nil	Very poor - poor	Good	
		Ground water structures repaired/ rejuvenated		-	13 nos.	
		Quality of drinking water		Moderate potable	Improved	
		Availability of drinking water		Insufficient	Sufficient	
		Increase in irrigation potential		-	-	
		Change in cropping/ land use pattern		-	-	
		Area under agricultural crop				
		i Area under single crop	Ha.	40	50	
		ii Area under double crop		-	-	
		I Area under multiple crop		310	100	
		Net increase in crop production area	Ha.		50	
		Increase in area under vegetation	Ha.	200	255	
		Increase in area under horticulture	Ha.	-	126.6	
		Increase in area under fuel & fodder	Ha.	-	-	
		Increase in milk production	Litres	-	-	-
		No. of SHGs	Nos.	2	10	
		Increase in no. of livelihoods		-	24	
		Increase in income	Rs in lakhs	0.25 - 0.35	0.35 – 0.45	
		Migration	Nos.	-	-	
		No. of school going children	Nos.	35 No.s	55 No.s	
		SHG Federations formed	Nos.	-	-	
		Credit linkage with banks	Nos.	-	5	
		Resource use agreements		Nil	2 No.s	
		WDF collection & management		Nil	1.875 Lakhs	Used for repairing works
		Summary of lessons learnt	May be attached as a separate file			



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

1	2	3	4	5	6	7	8	9	10
District	Name of project	Name of WC	Name of structure/ activity	Estimated cost (Rs.)	Expected quantifiable benefits (Rs.)	Expenditure incurred (Rs.)	Actual quantifiable benefit (Rs.)	Benefit: Cost ratio <sup>#</sup>	IRR
South Garo Hills District	SGH-IWMP I	Wagrchi Nala (IWMP-I)	As per Treatment Plan	58.5 lakhs	87.75 lakhs	58.5 lakhs	-	1 : 1.5	-

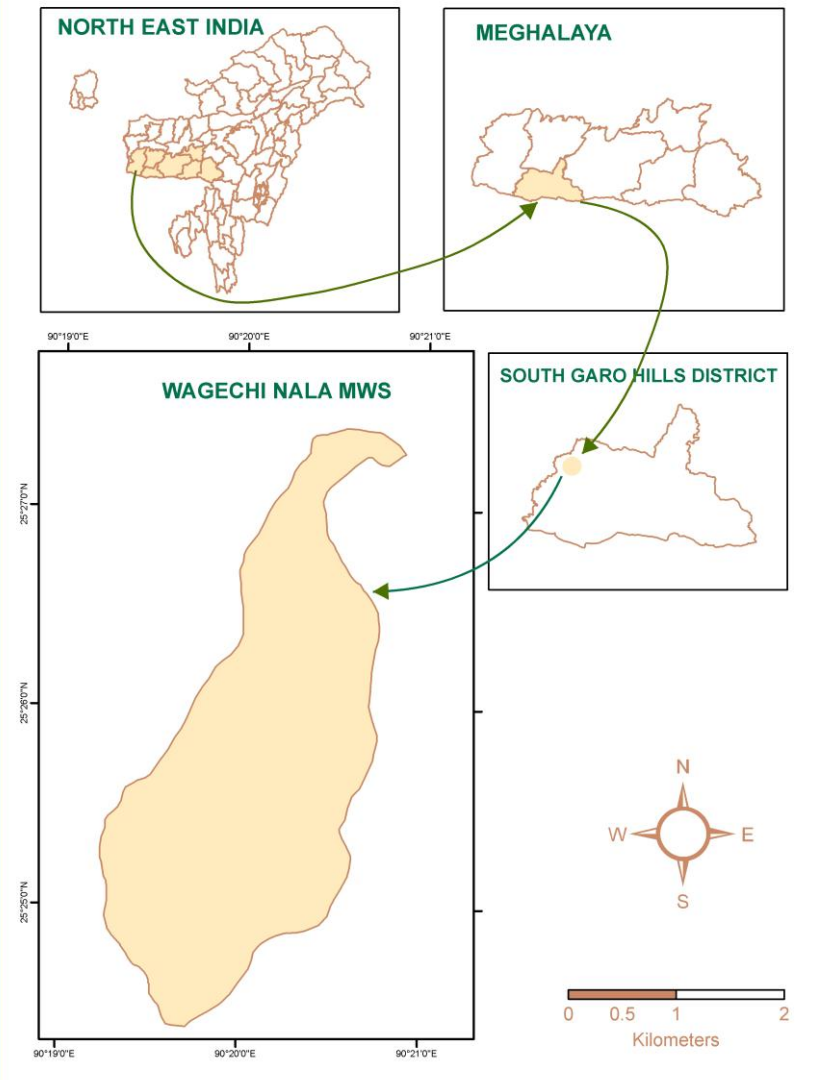
\* from column no. 2, total no. of States implementing the programme, from column no. 3, total no. of Districts; from Column no. 4, no. of projects, from column no. 5, no. of WCs, from column no. 6, no. of structures/ activities, from column no. 7 to 10, category-wise# totals, may be mentioned at the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

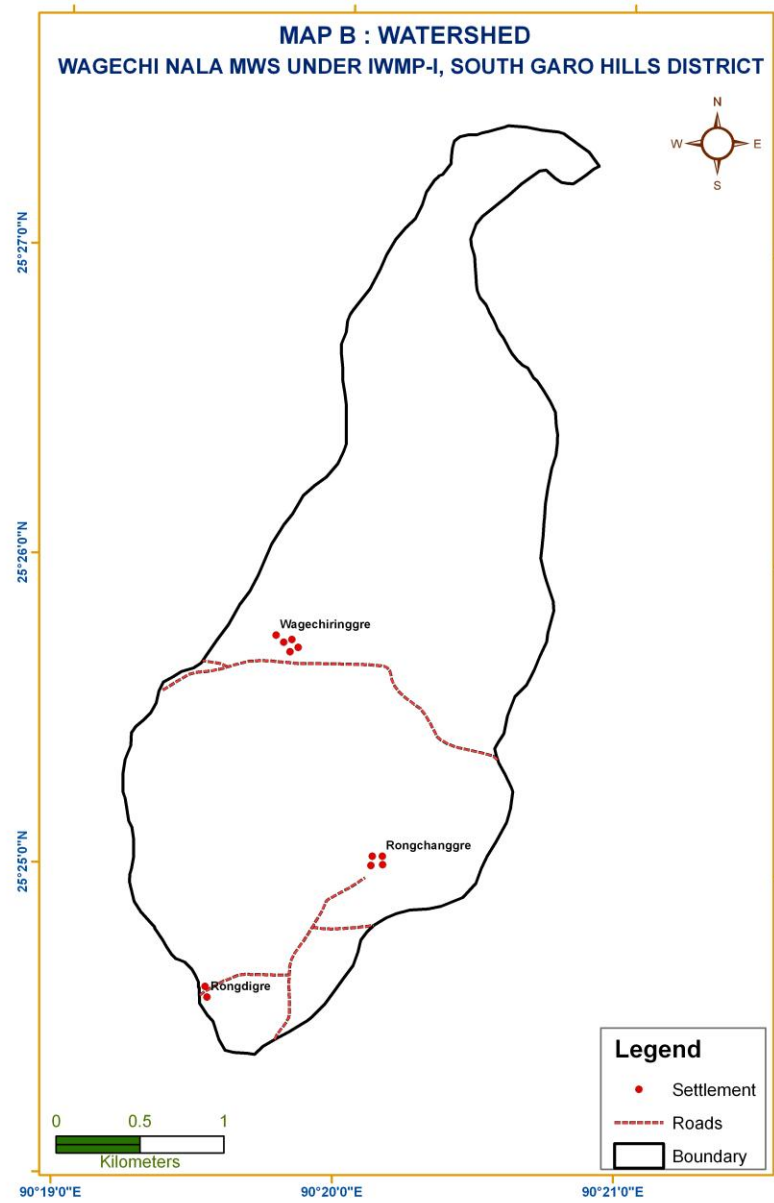
<sup>#</sup> B:C ratio more than 1 – cost effective  
less than 1 – Not cost effective

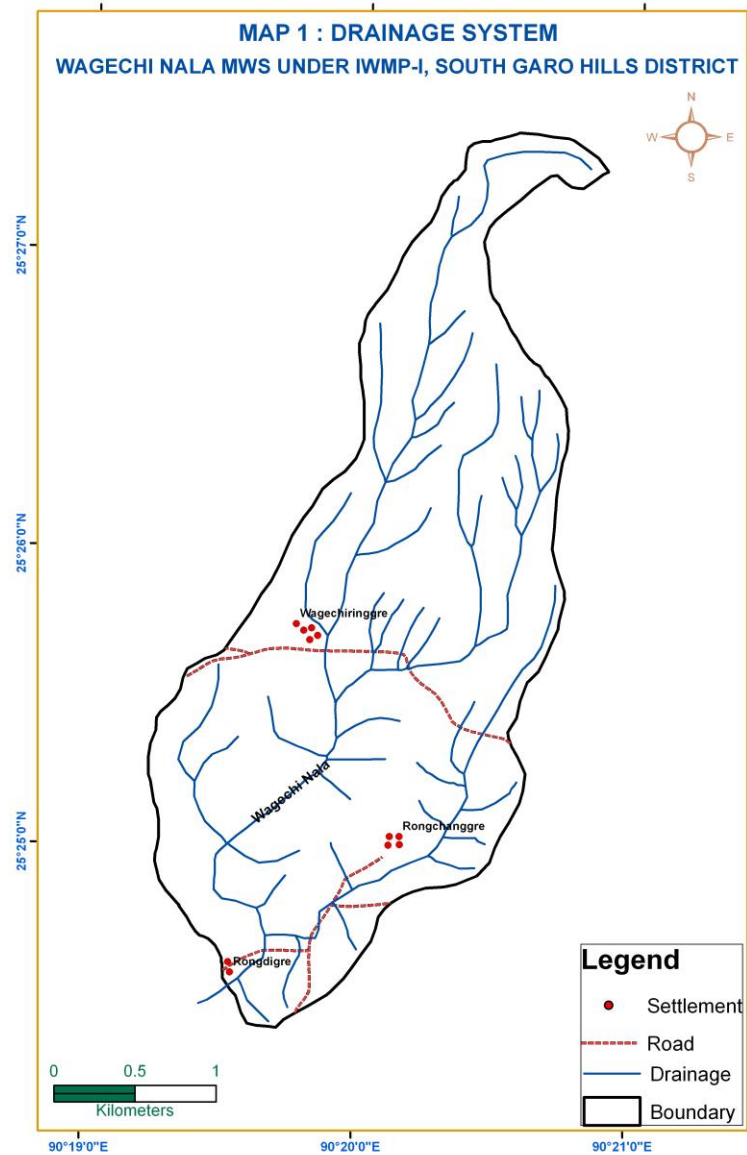
## **ANNEXURE I**

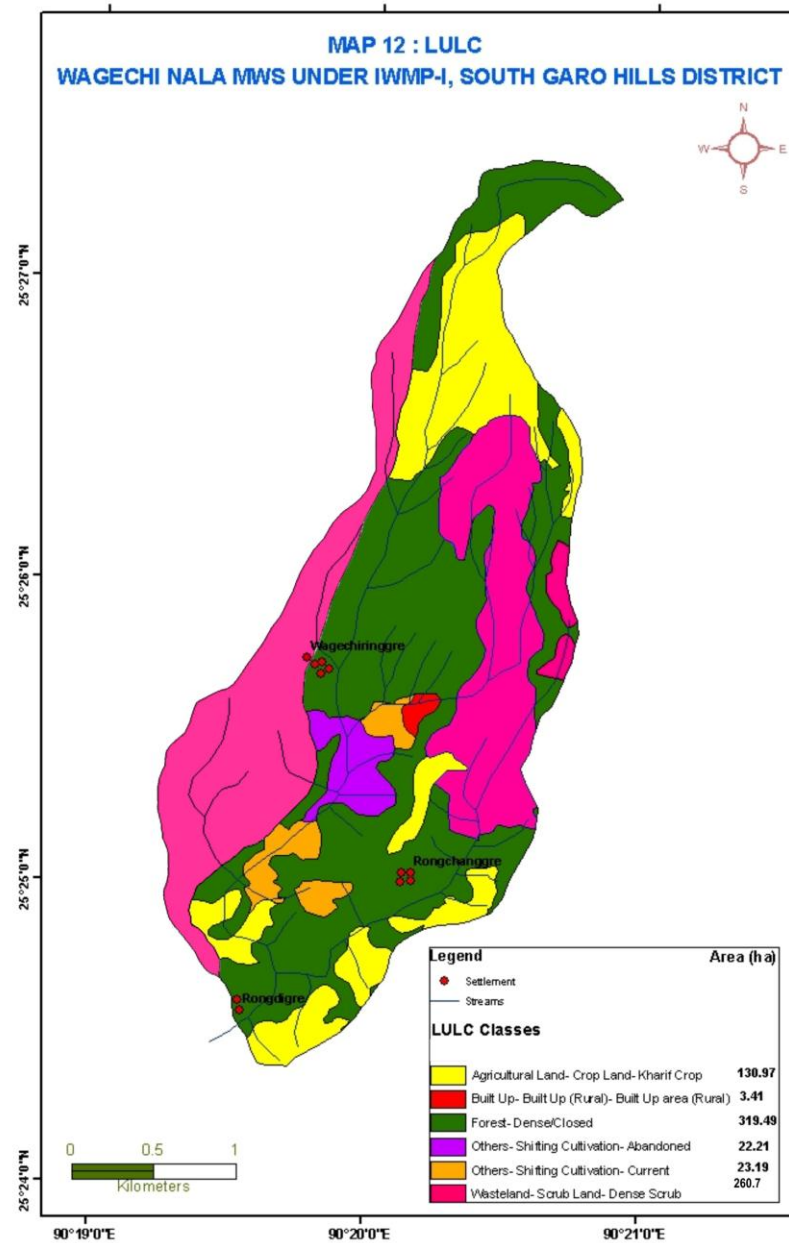
### **MAPS**

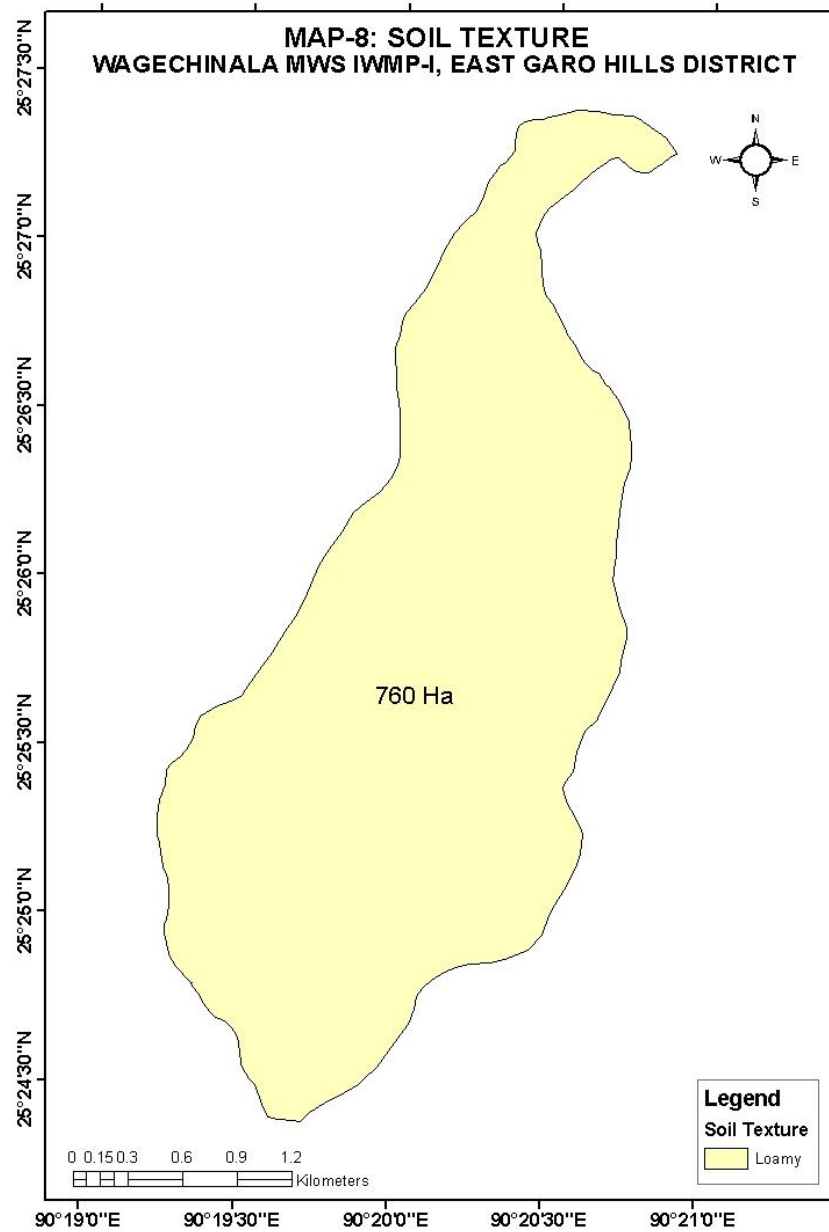
**MAP - A : LOCATION OF THE WAGECHI NALA MWS UNDER IWMP-I  
SOUTH GARO HILLS DISTRICT**

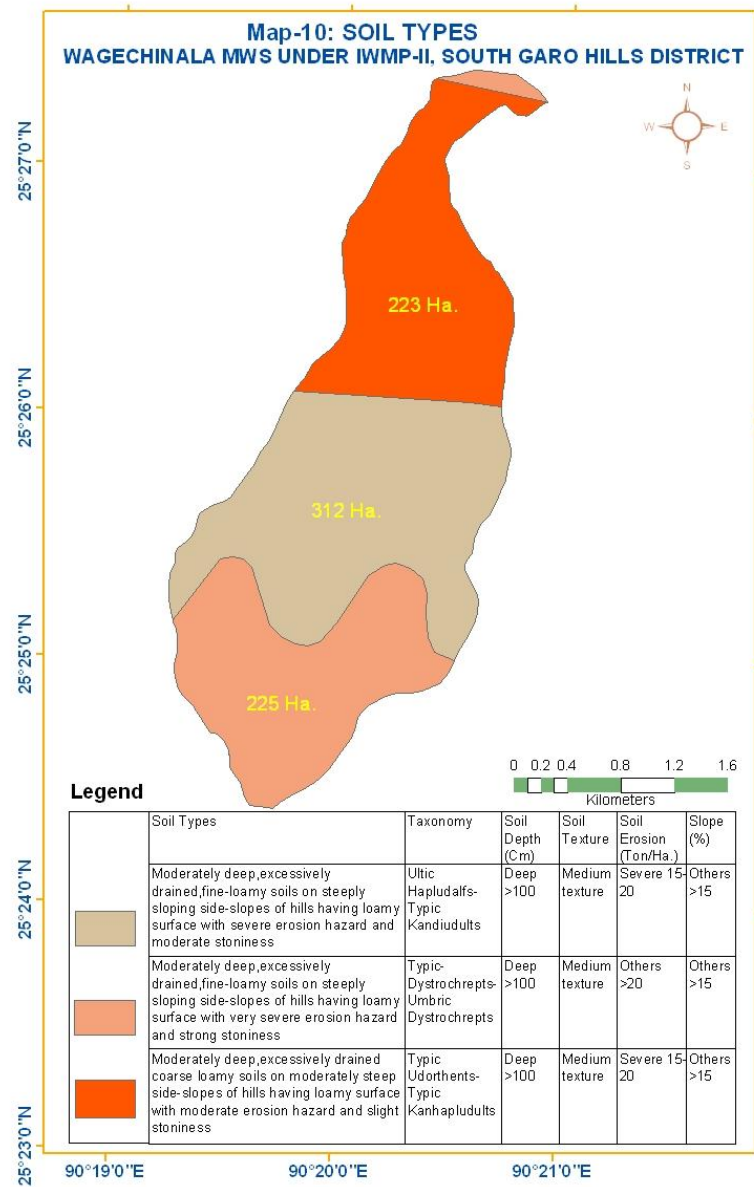




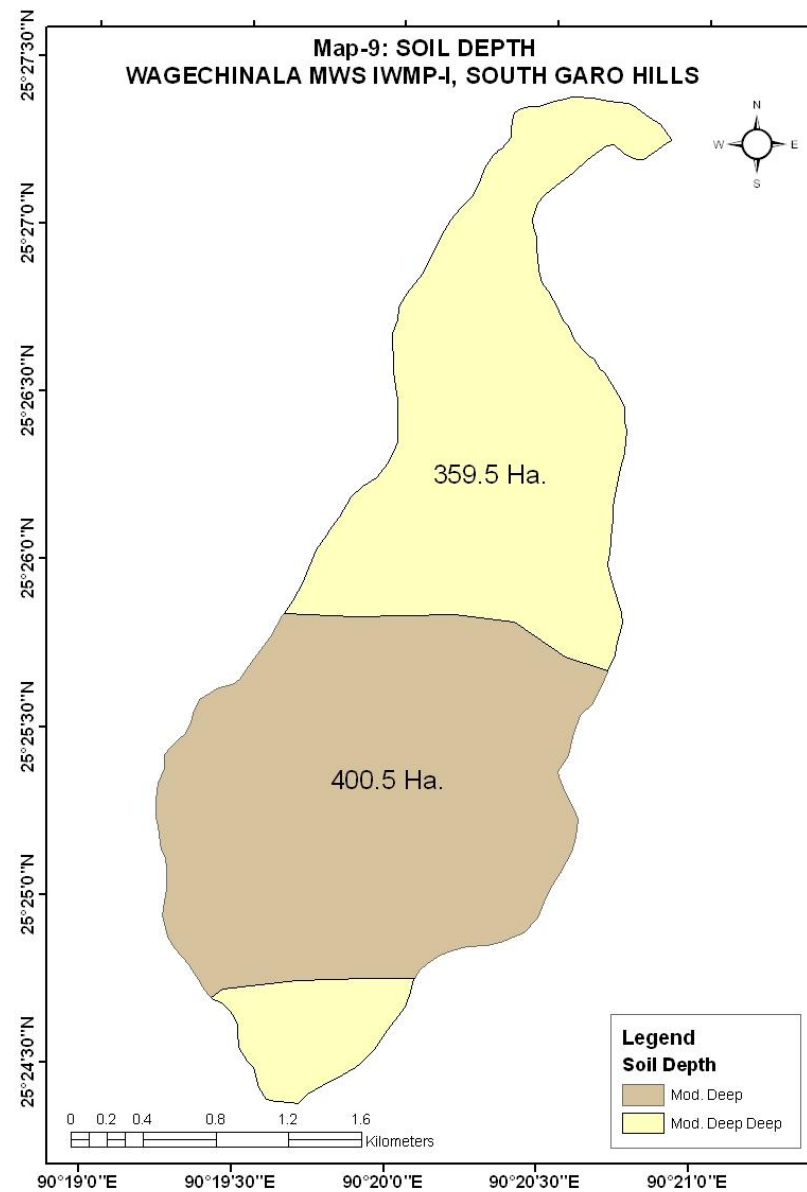


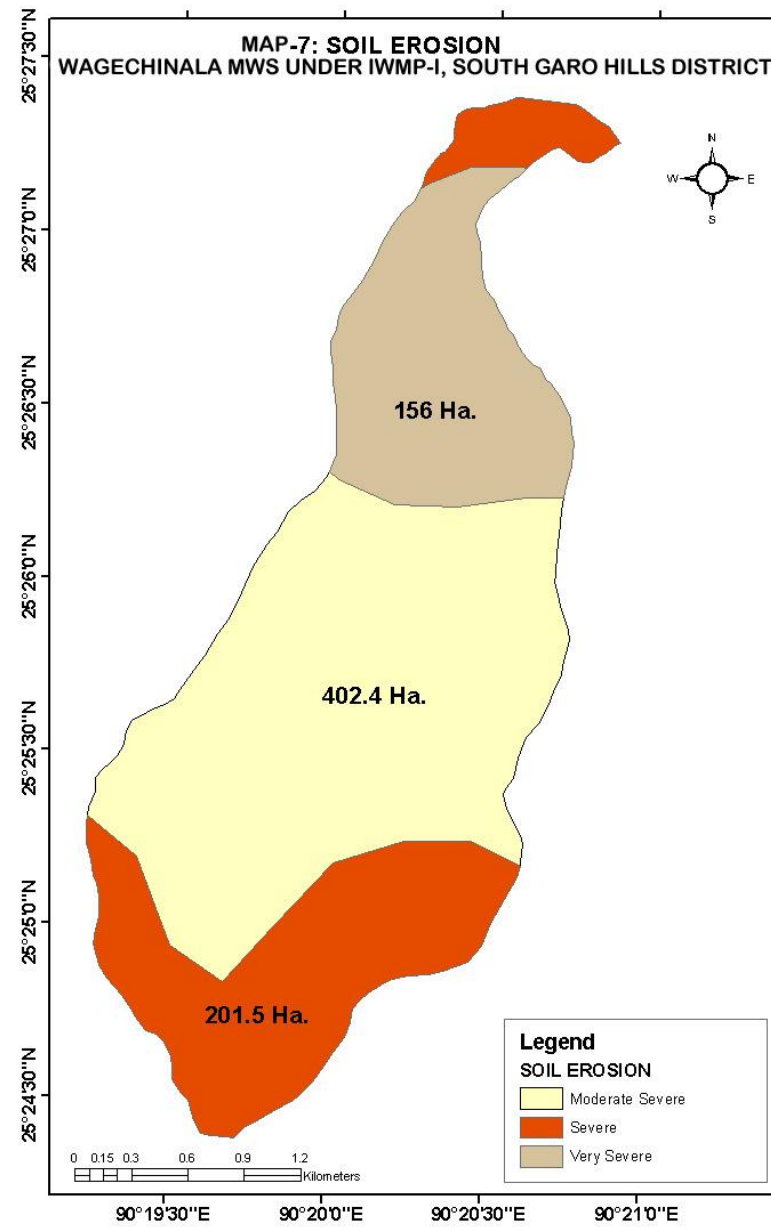


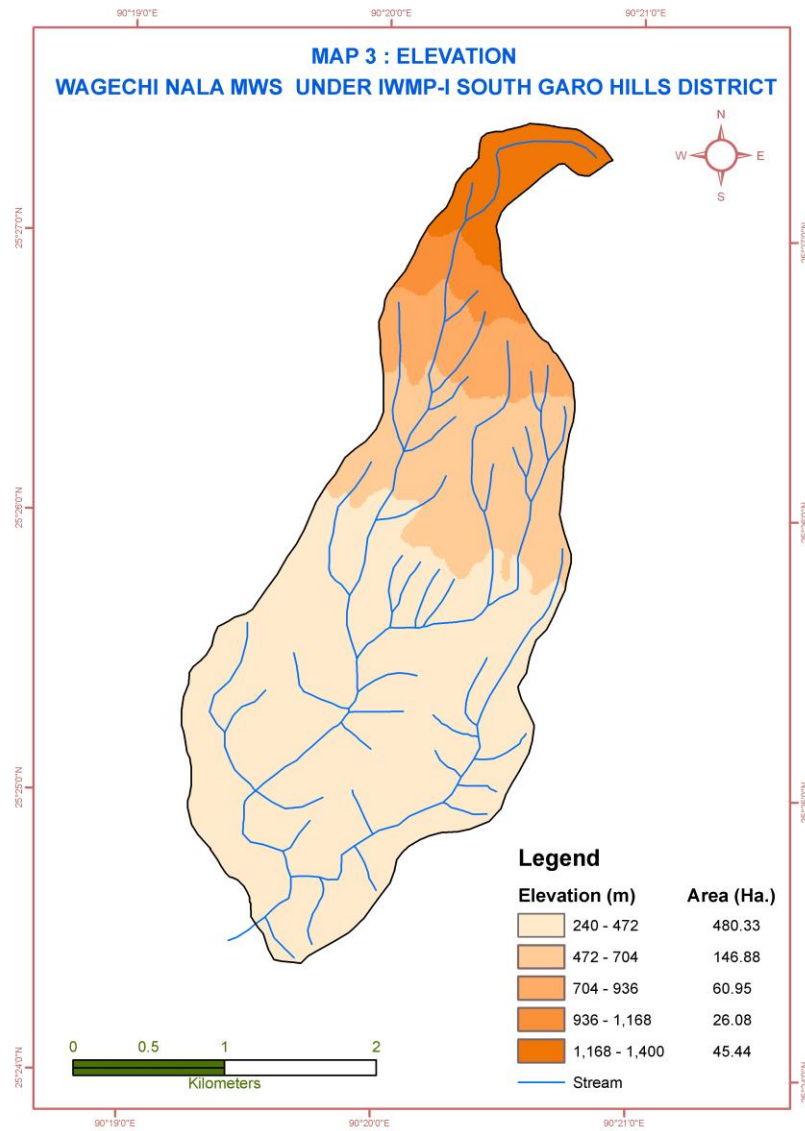


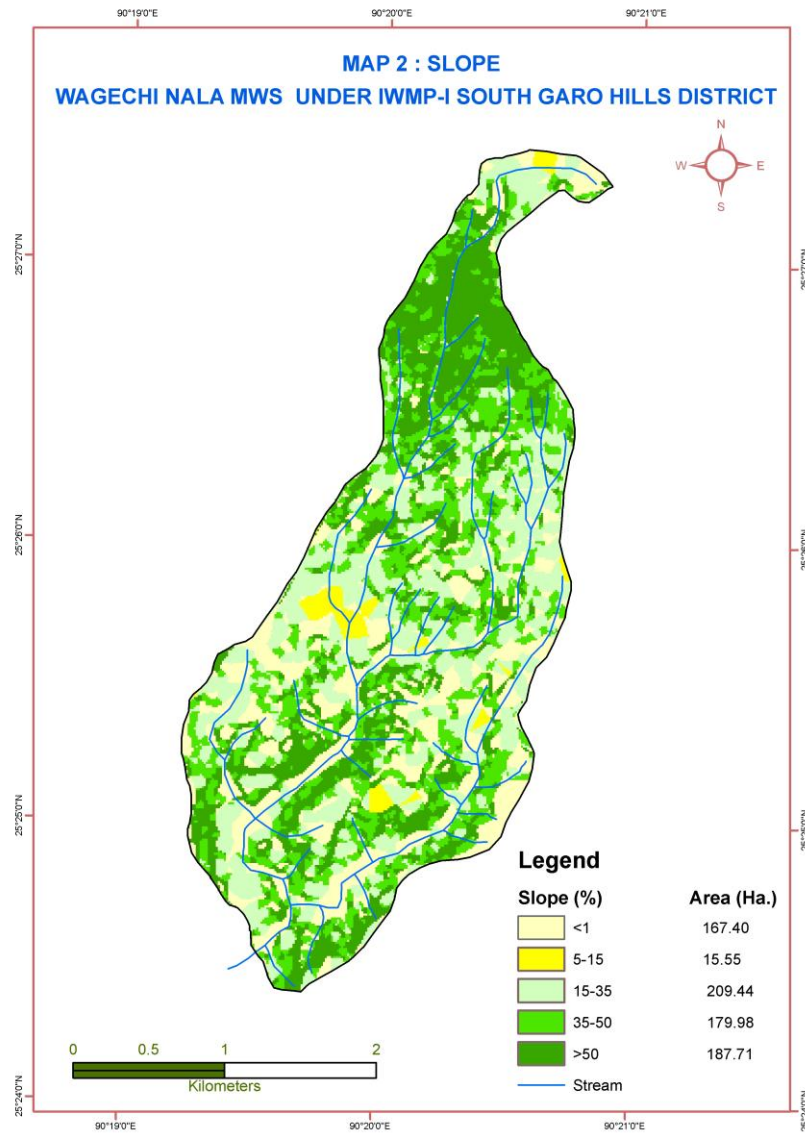


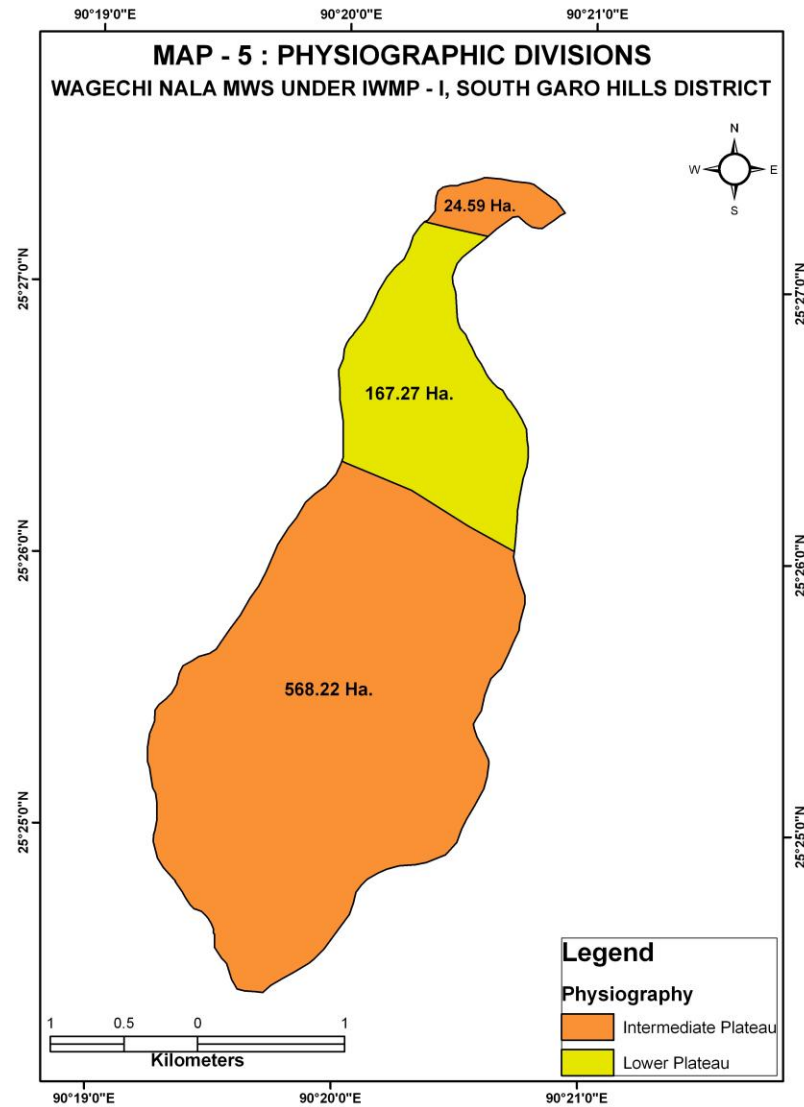


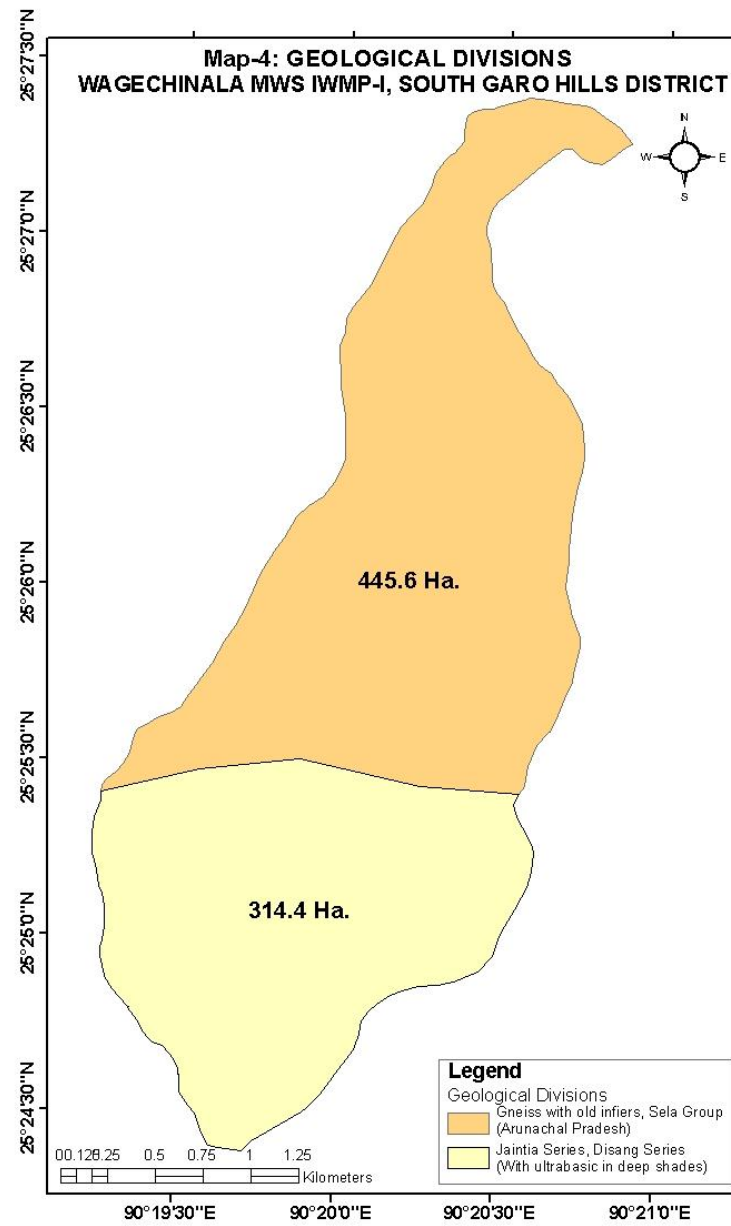


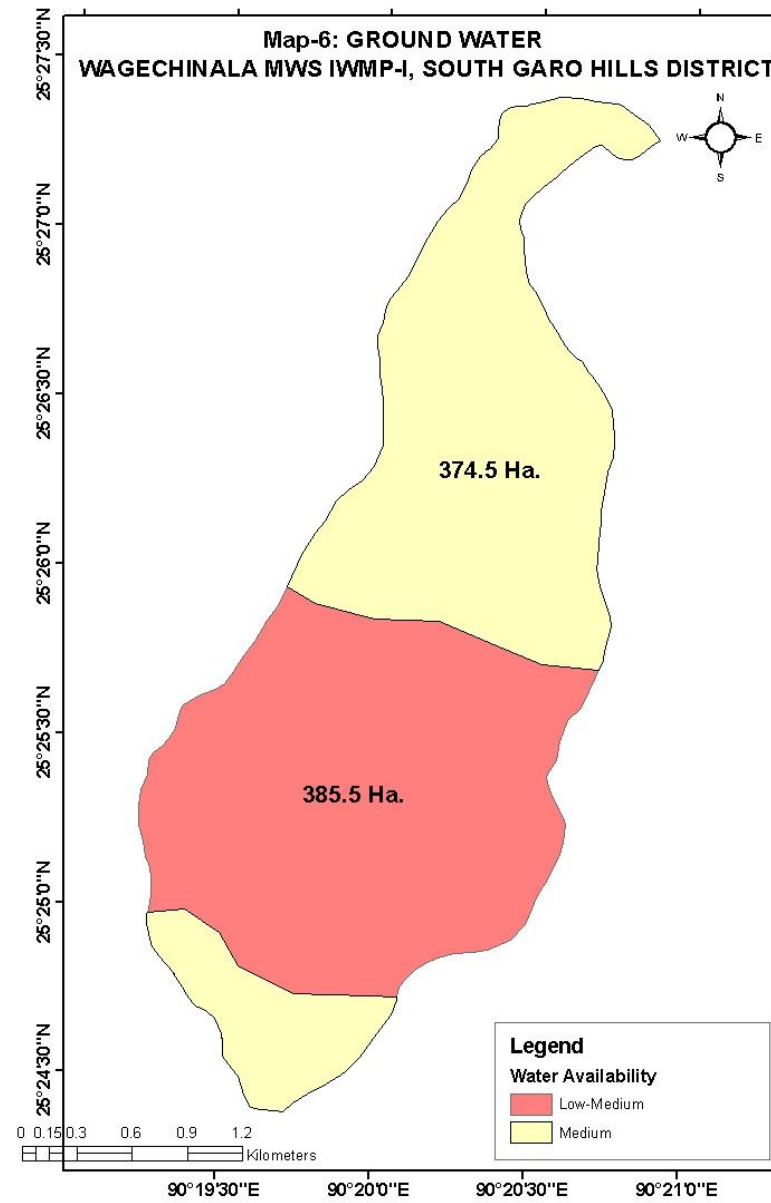


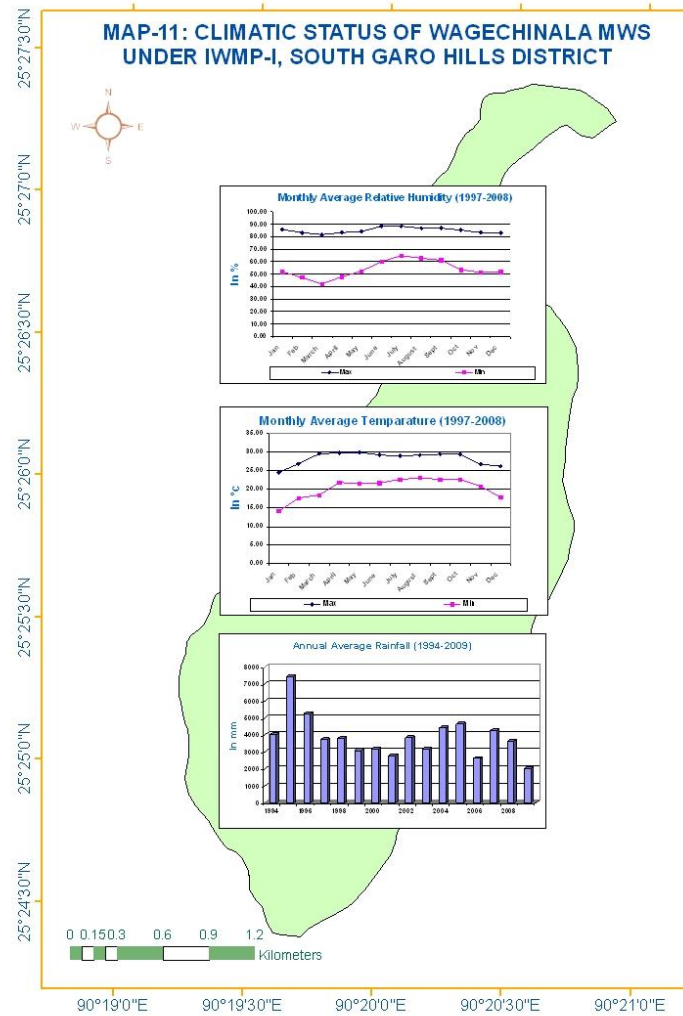




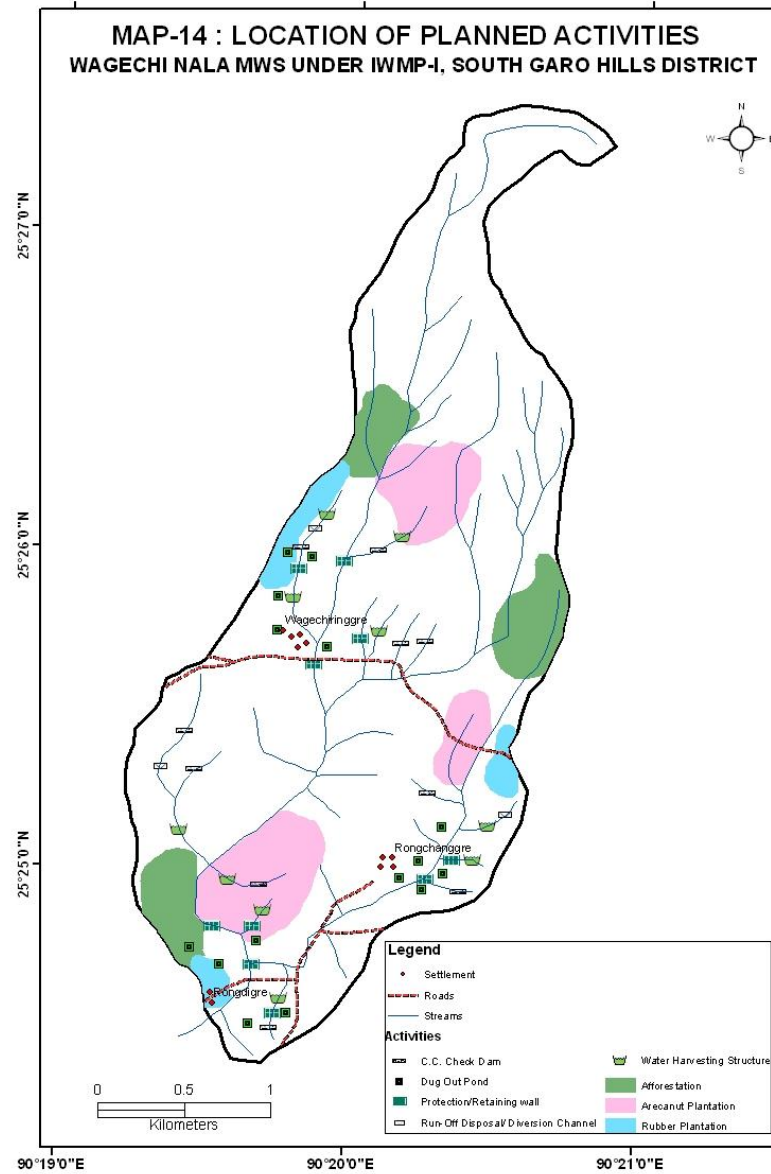












## **ANNEXURE II**

### **SOCIO-ECONOMIC SURVEY DETAILS**

SOCIO ECONOMIC SURVEY UNDER I.W.M.P- I, SOUTH GARO HILLS, DISTRICT.  
NAME OF VILLAGE : RONGDI ANCHENGRE NAME OF C & RD BLOCK: CHOKPOT C & RD BLOCK.

Sl. No.	Name of the Head of the family	Male	Female	Total	Occupation	Land holding per family ( Area in Ha.)	Crops Grows	Live stock				Annual income
								Cow	Pig	Goatry	Poultry	
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Shri. Gosing Sangma	6	3	9	Farmer	1.00 ha.	Arecanut	4	4	2	10	1,00,000
2	Shri. Plen Sangma	2	3	5	“	1.00 ha.	“	2	5	1	12	60,000
3	Shri. Injeng Sangma	2	2	4	“	1.50 ha.	“	-	6	-	11	40,000
4	Shri. Rolling Sangma	1	5	6	“	0.90 ha.	Coffee	-	5	-	8	40,000
5	Shri. Try Sangma	2	2	4	“	0.70 ha.	“	1	1	2	9	90,000
6	Shri. Molen Sangma	2	4	6	“	0.80 ha.	“	3	2	2	2	15,000
7	Shri. Galsing Marak	1	1	2	“	0.80 ha.	“	1	-	-	5	70,000
8	Shri.Salen Marak	2	3	5	“	0.90 ha.	“	-	-	-	6	90,000
9	Shri. Erison Sangma	3	2	5	“	0.70 ha.	Coffee	-	-	2	1	90,000
10	Shri. Dolom Sangma	5	5	10	“	0.60 ha.	“	-	3	-	2	1,00,000
11	Smt. Jida Marak	1	1	2	Service	0.60 ha.	“	1	2	-	5	1,00,000
12	Shri. Bilton Marak	3	2	5	“	0.80 ha.	P/Rubber	-	-	-	12	80,000
13	Shri Monen Sangma	3	3	6	“	0.90 ha.	“	5	-	1	16	80,000
14	Smt. Moni Sangma	2	3	5	“	1.00 ha.	Orange	4	4	-	-	50,000
15	Shri. Sanjeng Marak	3	3	6	“	0.40 ha.	“	-	-	-	20	10,000
16	Shri. Salwin Sangma	2	2	4	Service	1.00 ha.	“	-	-	-	10	1,10,000
17	Shri Den Marak	3	3	6	“	0.50 ha.	P/Rubber	-	-	-	-	15,000
18	Shri. Bilat Sangma	2	4	6	“	0.90 ha.	“	-	8	-	2	20,000
19	Shri. Waljen Marak	4	3	7	“	0.80 ha.	“	-	-	-	5	20,000
20	Shri Diren Marak	2	2	4	“	0.50 ha.	“	-	-	-	6	10,000
21	Shri Arkot Sangma	3	4	7	“	1.00 ha.	P/Rubber	1	2	2	10	1,10,000
22	Shri Dipok Sangma	2	3	5	“	0.60 ha.	Arecanut	2	5	-	6	15,000.00
23	Shri Licking Sangma	2	1	3	“	0.60 ha.	“	5	2	-	15	15,000.00
24	Shri Lit Sangma	3	4	7	“	0.80 ha.	“	6	7	-	12	1,00,000.00

1	2	3	4	5	6	7	8	9	10	11	12	13
25	Shri. Dinesh Sangma	1	1	2	Service	1.50 ha.	Arecanut	6	5	-	20	1,10,000
26	Shri. Galsing Marak	3	3	6	Farmer	0.90 ha.	“	2	2	2	20	10,000
27	Shri. Pedil Marak	3	2	5	“	0.50 ha.	Coffee	-	2	-	12	10,000
28	Shri. Dokbeng Marak	3	2	5	“	0.80 ha.	“	-	3	-	14	20,000
29	Shri Martha Marak	3	2	5	“	0.50 ha.	“	4	6	-	5	10,000
30	Smt. Wilmon Marak	4	3	7	“	0.60 ha.	B/Pepper	4	8	-	7	15,000
31	Shri. Kongkon Marak	6	2	8	“	1.00 ha.	“	2	5	1	12	60,000
32	Smt. Madan Areng	0	2	2	“	1.50 ha.	“	-	6	-	11	40,000
	TOTAL:	84	85	169				52	93	15	86	

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

NAME OF VILLAGE : WAGE CHIRINGGRE

NAME OF C & RD BLOCK: CHOKPOT C & RD BLOCK.

Sl. No.	Name of the Head of the family	Male	Female	Total	Occupation	Land holding per family ( Area in Ha.)	Crops Grows	Live stock				Annual income
								Cow	Pig	Goatry	Poultry	
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Shri. Polbin Sangma	3	2	5	Farmer	1.00 ha.	Arecanut	4	4	2	10	1,00,000
2	Shri Bosom Sangma	2	3	5	“	1.00 ha.	“	2	5	1	12	60,000
3	Shri. Dijen Marak	3	2	5	“	1.50 ha.	“	-	6	-	11	40,000
4	Shri. Arson Marak	1	2	3	“	0.90 ha.	Coffee	-	5	-	8	40,000
5	Shri Slen Sangma	4	2	6	“	0.70 ha.	“	1	1	2	9	90,000
6	Shri. Imbak Sangma	3	1	4	“	0.80 ha.	“	3	2	2	2	15,000
7	Shri. Willensing Sangma	3	1	4	“	0.80 ha.	“	1	-	-	5	70,000
8	Shri. Najen Sangma	4	6	10	“	0.90 ha.	“	-	-	-	6	90,000
9	Smt. Jenita Sangma	5	4	9	“	0.70 ha.	Coffee	-	-	2	1	90,000
10	Shri. Pogen Sangma	2	3	5	“	0.60 ha.	“	-	3	-	2	1,00,000
11	Smt. Natji Marak	1	2	3	Service	0.60 ha.	“	1	2	-	5	1,00,000
12	Shri Alen Sangma	3	3	6	“	0.80 ha.	P/Rubber	-	-	-	12	80,000
13	Shri. Darki Marak	1	3	4	“	0.90 ha.	“	5	-	1	16	80,000
14	Shri. Pebath Sangma	4	3	7	“	1.00 ha.	Orange	4	4	-	-	50,000
15	Shri. Rot Sangma	5	5	10	“	0.40 ha.	“	-	-	-	20	10,000
16	Shri. Rojen Sangma	5	5	10	“	1.00 ha.	“	-	-	-	10	1,10,000
17	Shri. Ebar Sangma	2	2	4	“	0.50 ha.	P/Rubber	-	-	-	-	15,000
	TOTAL:	51	49	100				21	32	10	129	

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

NAME OF VILLAGE : RONGCHANGGRE

NAME OF C & RD BLOCK: CHOKPOT C & RD BLOCK.

Sl. No.	Name of the Head of the family	Male	Female	Total	Occupation	Land holding per family ( Area in Ha.)	Crops Grows	Live stock				Annual income
								Cow	Pig	Goatry	Poultry	
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Shri. Penal M. Sangma	2	2	4	Farmer	0.60 ha.	Cashewnut	3	2	-	5	15,000
2	Shri. Jibon M Sangma	5	1	6	“	0.60 ha.	“	-	11	-	7	11,000
3	Shri. Bulbul M. Sangma	4	4	8	“	0.50 ha.	“	2	5		3	15,000
4	Shri. Samuel M. Sangma	5	5	10	“	0.90 ha.	“	1	6	9	2	15,000
5	Shri. Mati C. Marak	4	5	9	“	1.50 ha.	“	-	4	-	5	1,10,000
6	Smt. Balme C. Marak	3	3	6	“	0.90 ha.	“	2	5	2	6	10,000
7	Shri. Dinising M. Sangma	4	4	8	“	0.80 ha.	“	-	4	-	5	20,000
8	Shri. Depson C. Marak	3	3	6	“	0.70 ha.	“	-	5	3	12	10,000
9	Shri. Witer C Marak	3	2	5	“	0.80 ha.	“	-	1	-	11	15,000
10	Shri. Selina C Marak	2	4	6	“	0.70 ha.	“	2	3	5	12	15,000
11	Shri. Ritchart A. Sangma	4	2	6	“	0.80 ha.	“	-	2	-	13	15,000
12	Shri. Meren C Marak	1	4	5	“	0.80 ha.	“	-	3	-	2	15,000
13	Shri. Suben D. Sangma	2	1	3	“	0.70 ha.	“	1	-	2	5	15,000
14	Smt. Mellina Marak	5	3	8	“	0.70 ha.	“	-	4	-	5	1,10,000
15	Smt. Kristina Marak	4	2	6	“	0.80 ha.	“	2	5	2	6	10,000
16	Smt. Chakme Marak	3	4	7	“	0.70 ha.	“	-	4	-	5	20,000
	TOTAL:	54	49	103				13	64	23	104	

**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

$$\begin{array}{rclclcl}
 1 & \times & 17 & \times & 0.5 & \times & 1.25 & = & 10.625 & \text{m}^3 \\
 @ & 34 & /\text{m}^3 & & & & & = & \text{Rs} & 361.25
 \end{array}$$

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

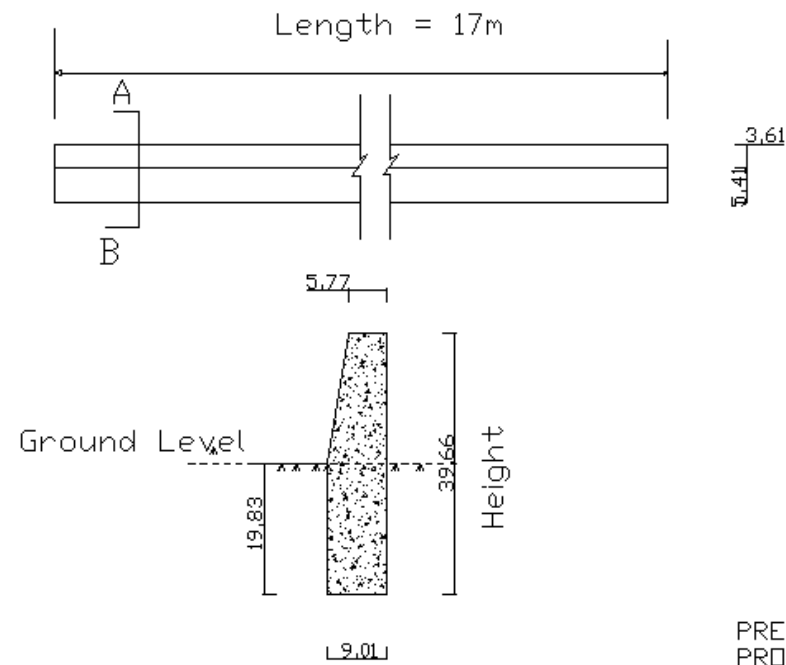
$$\begin{array}{rclclcl}
 1 & \times & 17 & \times & 0.5 & \times & 1.25 & = & 10.625 & \text{m}^3 \\
 1 & \times & 17 & \times & \frac{0.5+0.30}{2} & \times & 2.061 & = & \underline{14.015} & \text{m}^3 \\
 & & & & & \text{Total} & = & 24.64 & \text{m}^3 \\
 @ & 3232 & /\text{m}^3 & & & = & \text{Rs} & & 79,636.48
 \end{array}$$

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	x	0.9	x	1	=	6.3	m <sup>3</sup>
Curtain Wall	7	x	0.15	x	0.4	=	0.42	m <sup>3</sup>
Apron	7	x	3	x	0.4	=	8.4	m <sup>3</sup>
Wing wall	2	x	3.5	x	0.9	x	1.1	=
							<u>6.93</u>	<u>m<sup>3</sup></u>
							22.05	m <sup>3</sup>
@	72	/m <sup>3</sup>				=	Rs	1587.6

- 2/97. Providing and laying of boulder Apron for bed protection with stone boulder of size 15cm size and 6cm wide as per drawing and technical specifications .

Apron	7	x	3	x	0.25	=	5.25	m <sup>3</sup>
@	884	/m <sup>3</sup>				=	Rs	4641

- 3/137 Plain Cement Concrete in proportion 1:3:6 nominal mixed in foundation with crushed stone aggregates 40mm mechanically mixed etc.

Wing Wall	2	x	3.5	x	0.9	x	0.1	=	0.63	m <sup>3</sup>
Dam	1	x	7	x	1.1	x	0.1	=	0.77	m <sup>3</sup>
	1	x	7	x	1.1	x	1	=	7.7	m <sup>3</sup>
	7	x	$\frac{0.4 + 0.9}{2}$	x	<u>1.7</u>			=	7.73	m <sup>3</sup>
	2	x	4	x	0.6	x	0.3	=	1.44	m <sup>3</sup>
Apron	7	x	3	x	0.15			=	3.15	m <sup>3</sup>
Curtain	7	x	0.15	x	0.55			=	0.5775	m <sup>3</sup>

Wall						
C.C	1	x	8.48	x	0.8	x 0.1 = 0.6784 m <sup>3</sup>
Channel	2	x	8.48	x	0.8	x 0.1 = <u>1.3568</u> m <sup>3</sup>
						24.0327 m <sup>3</sup>
@	3232	m <sup>3</sup>			=	Rs 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	x	3.5	x	0.9	x 1 = 6.3 m <sup>3</sup>
	2	x	3.5	x	<u>0.4 +</u>	x 1.7 = <u>7.74</u> m <sup>3</sup>
					<u>0.9</u>	
					2	14.04 m <sup>3</sup>
@	2263	m <sup>3</sup>			=	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	x	1.7	= 23.8 m <sup>3</sup>
	7	x	4	x	0.3	= 8.4 m <sup>3</sup>
	2	x	0.6	x	0.3	= 0.36 m <sup>3</sup>
	1	x	5	x	0.6	= 3 m <sup>3</sup>
C.C	2	x	8.48	x	0.8	= 13.568 m <sup>3</sup>
Channel	1	x	8.48	x	0.8	= <u>6.784</u> m <sup>3</sup>
						55.912 m <sup>3</sup>
@	74	m <sup>3</sup>			=	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.

$$8.48 \times 0.8 \times 0.8 = 5.4272 \text{ m}^3$$

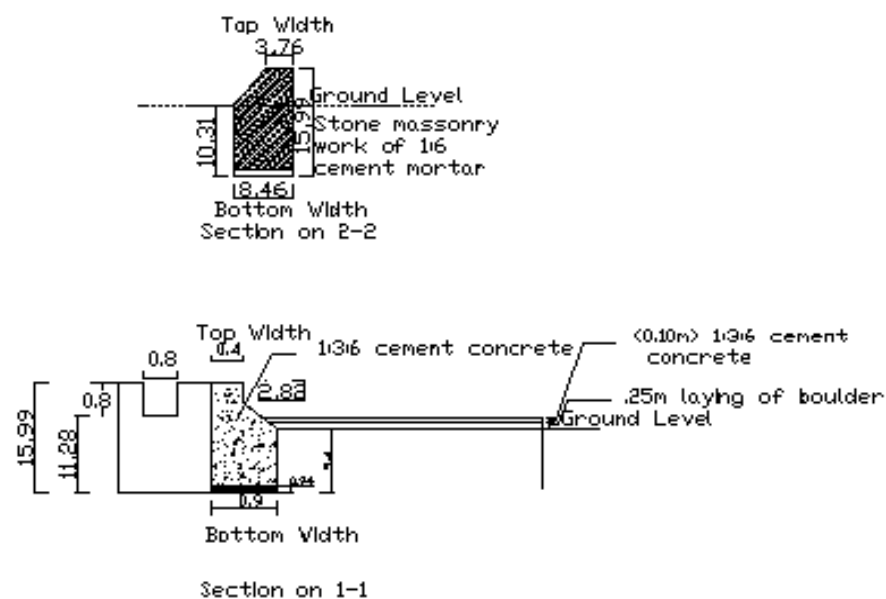
$$@ 34 \text{ m}^3 = \text{Rs } 185$$

$$\text{Total} = \text{Rs } 1,19,996.82$$

$$\text{say} \quad \text{Rs } 1,20,000$$

(Rupees one lakh twenty thousand ) only

Technical drawing of a table plan. The drawing shows a rectangular table with a central rectangular area labeled "Apron". The overall width is 7. The overall height is 32.91. The apron height is 28.21. The apron width is 3.76. The apron is divided into two sections, each 0.8 wide. The apron is supported by two legs, each 4.7 wide. The apron is labeled "1" and the legs are labeled "2". The drawing includes dimension lines and arrows indicating the measurements.



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

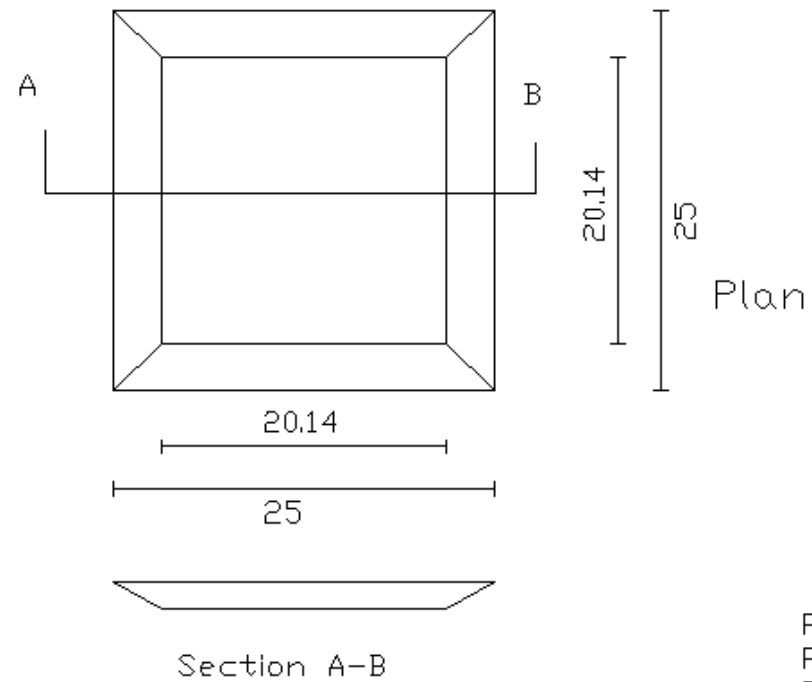
1/3. Cleaning and removal of rubbish upto a distance of 30 m outside the periphery of the area  
Area = 0.0813 Ha  
@ 3600 /Ha = Rs 292.68

$$1\text{no } \frac{(25 \times 25) \times (20.14 \times 20.14)}{2} \times 2 = 1030.619 \text{ /m}^3$$

Total = Rs 74497.248

( Rupees Seventy five thousand ) Only

## PLAN AND SECTION FOR WATER HARVESTING STRUCTURE



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

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 etc .

109



3/141 Plain /reinforced cement concrete in open foundation as per drawing and technical specifications

Cement  
procured

$$\begin{array}{rclclclcl}
 1 & \times & 48.02 & \times & 1 & \times & 0.1 & = & 4.802 \text{ m}^3 \\
 2 & \times & 48.02 & \times & 1.22 & \times & 0.1 & = & 11.72 \text{ m}^3 \\
 & & & & & & & & \hline
 & & & & & & & & 16.52 \text{ m}^3
 \end{array}$$

Rs. 3630 /m<sup>3</sup>

Rs. 59,963.53

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

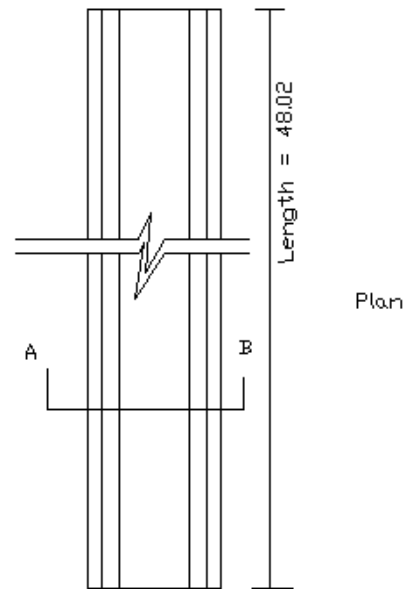
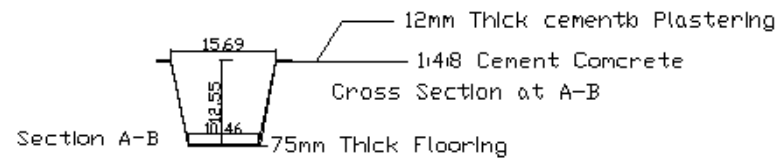
$$2 \times 48.02 \times 1.22 = 117.2$$

Rs. 74 /m<sup>3</sup>

	Rs.	8,670.49
Total	=	Rs. 1,11,996.09
Say		Rs. 1,12,500.00

(Rupees one lakh twelve thousand 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

ESTIMATE FOR THE CONSTRUCTION OF CEMENT CONCRETE CHECK DAM 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.

$$1 \times 16.078 \times \frac{1.50 + 1.00}{2} \times 1.2 = 24.117 \text{ m}^3$$

Rs. 34 /m<sup>3</sup>                      Rs. 819.98

- 2/103. Providing and laying of dry rubble flooring completed as per drawing and technical specifications.

$$1 \times 16.078 \times 1 = 16.08 \text{ m}^3$$

Rs. 852 /m<sup>3</sup>                      Rs. 13,698.46

- 3/141 Plain /reinforced cement concrete in open foundation as per drawing and technical specifications

Cement  
procured

$$1 \times 16.078 \times 1 \times 0.1 = 1.608 \text{ m}^3$$



$$2 \times 16.078 \times 1.22 \times 0.1 = \frac{3.923 \text{ m}^3}{5.53 \text{ m}^3}$$

Rs. 3630 /m<sup>3</sup>

Rs. 20,076.92

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

$$2 \times 16.078 \times 1.22 = 39.23$$

Rs. 74 /m<sup>3</sup>

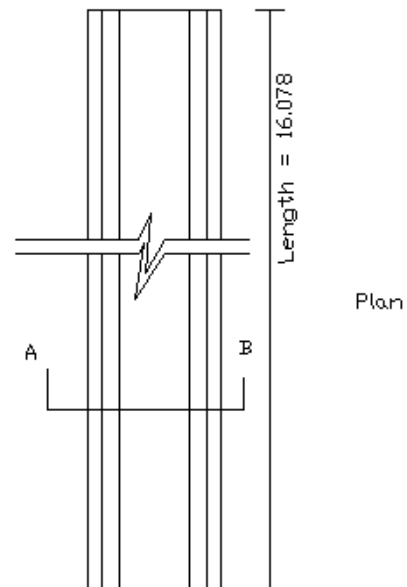
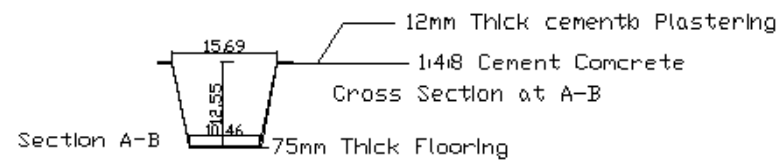
Rs. 2,903.04

Total = Rs. 37,498.40

Say Rs. 37,500.00

(Rupees Thirty Seven thousand 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

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.

$$1 \times 16.29 \times \frac{1.50 + 1.00}{2} \times 1.2 = 24.435 \text{ m}^3$$

Rs. 34 /m<sup>3</sup>

Rs. 830.79

- 2/103. Providing and laying of dry rubble flooring completed as per drawing and technical specifications.

$$1 \times 16.29 \times 1 = 16.29 \text{ m}^3$$

Rs. 852 /m<sup>3</sup>

Rs. 13,879.08

- 3/141 Plain /reinforced cement concrete in open foundation as per drawing and technical specifications

Cement procured

$$\begin{array}{rclclcl} 1 \times 16.29 \times 1 \times 0.1 & = & 1.629 \text{ m}^3 \\ 2 \times 16.29 \times 1.22 \times 0.1 & = & 3.975 \text{ m}^3 \\ \hline & & 5.60 \text{ m}^3 \end{array}$$

Rs. 3630 /m<sup>3</sup>

Rs. 20,341.65

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

$$2 \times 16.29 \times 1.22 = 39.75$$

Rs. 74 /m<sup>3</sup>

Rs. 2,941.32

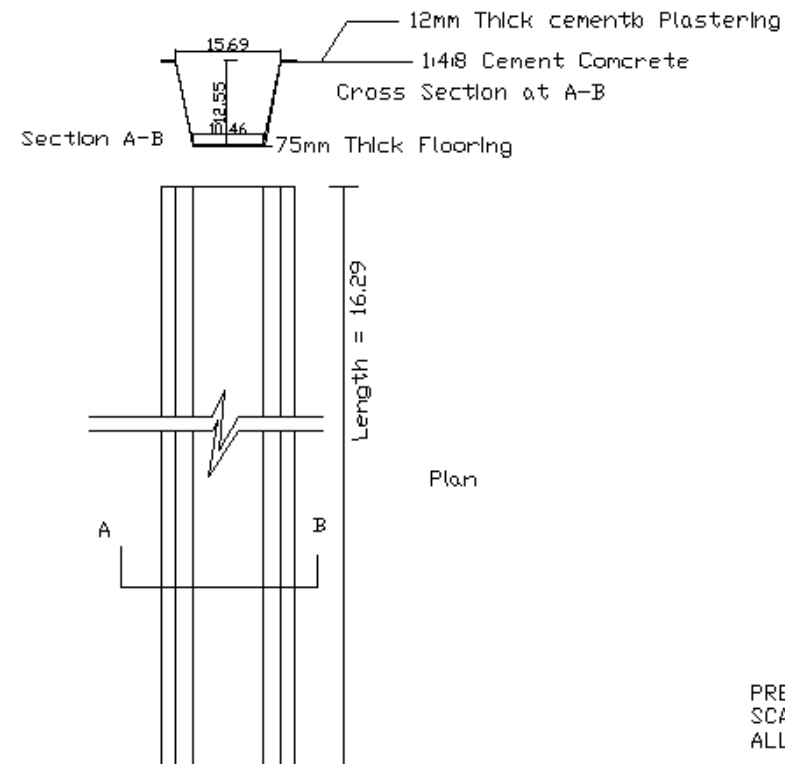


Total = Rs. 37,992.84

Say Rs. 38,000.00

(Rupees Thirty Eight thousand 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 Garo Hills	SGH-IWMP-I	Shri. Kai Raksal M Sangma	Male	28 yrs	Bachelor of Computer Application	Bachelor of Computer 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 Wa'gechi Nala 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 the three Villages 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 Wa'gechi Nala Micro Watershed comprises of 12 members.

Names of the Districts	Names of projects	Names of WCs	Date of Registration as a Society (dd/mm/ yyyy)	Designation	M/ F	ST	Educational qualification
South Garo Hills	SGH-IWMP-I	1. Shri Samson M Sangma	15-04-2010	President	M	ST	Class X
		2. Shri Abel Sangma		Secretary	M	ST	Matriculate
		3. Shri Wither Ch Marak		Member	M	ST	Class VII
		4. Shri Kai Raksal Sangma		Member	M	ST	B.C.A
		5. Shri Richard A Sangma		Member	M	ST	Class IX
		6. Shri Kenensing Sangma		Member	M	ST	Class VI
		7. Shri Gosing M Sangma		Member	M	ST	Class VII
		8. Shri Waljen Ch Marak		Member	M	ST	Class V
		9. Shri Ding Ch Marak		Member	M	ST	Class VI
		10. Shri Polbin M Sangma		Member	M	ST	Class VII
		11. Smti. Sejemoni Marak		Member	F	ST	Class IV
		12. Shri Penalson M Sangma		Member	M	ST	Class V



GOVERNMENT OF MEGHALAYA

OFFICE OF THE REGISTRAR OF SOCIETIES  
SOUTH GARO HILLS DISTRICT  
MEGHALAYA

Certificate for Registration of Societies

Regd No. SGH/SR/640 of 2010

I hereby certify that (Name of Society) WAGECHI NALA  
MICRO WATERSHED COMMITTEE, CHOKPOT, SOUTH  
GARO HILLS has this day been Registered under the Meghalaya Societies Act,  
1983 (Meghalaya Act XII of 1983).

Given under my hand and seal the FIFTEENTH day of APRIL  
(month) two thousand TEN.

Place: - BAGHMARA

Seal

Date: - 15.04.2010



(Shri P.M. Sangma, MCS)  
Joint Registrar of Societies/ET/20  
South Garo Hills District RCT  
Baghmara

### AGREEMENT FOR CONVERGENCE OF SCHEME

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

We have also agreed and committed 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
3. Rubber Plantation.
4. Black Pepper.
5. Protection Wall.
6. Dug-Out Pond

*Shri Manendra M Sangma*

*[Signature]*  
President  
Rongdi An'chenggre V.E.C,  
South Garo Hills,  
President

Village Employment Council  
Rongdi An'chenggre  
Chokpot Block, SGH.

*[Signature]*

Secretary  
Rongdi An'chenggre V.E.C,  
South Garo Hills,  
Secretary

Village Employment Council  
Rongdi An'chenggre  
Chokpot Block, SGH.

*Countersigned*

*[Signature]*  
Deputy Commissioner,  
South Garo Hills,  
Baghmara.

### AGREEMENT FOR CONVERGENCE OF SCHEME

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

We have also agreed and committed 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
3. Rubber Plantation.
4. Black Pepper.
5. Protection Wall.
6. Dug-Out Pond

*A. S. M. M. M.*  
President  
Village Employment Council  
Wage Chiringgre  
Chokpot Block, SGH.

*B. M. Sangma*  
Secretary  
Village Employment Council  
Wage Chiringgre  
Chokpot Block, SGH.

*Countersigned*

*M. M. M.*  
Baghmara  
South Garo Hills,  
Meghalaya



### AGREEMENT FOR CONVERGENCE OF SCHEME

The Village Employment Council (VEC) and the Communities of Rongchangre 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 Wagechi Nala Micro- Watershed, SGH-IWMP-I being implemented by Baghmara Soil & Water Conservation (C.C) Division, South Garo Hills.

We have also agreed and committed 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
3. Rubber Plantation.
4. Black Pepper.
5. Protection Wall.
6. Dug-Out Pond
- 7.

*Walter Ch. Marak*  
President,  
Rongchangre V.E.C. (MREGS)  
Chokpot Block,  
South Garo Hills.

President  
Village Employment Council  
Rongchangre  
Chokpot Block, SGH.

*Shri. Richard A. Sangma.*

Secretary,  
Rongchangre V.E.C. (MREGS)  
Chokpot C & RD. Block  
South Garo Hills.

Secretary  
Village Employment Council  
Rongchangre  
Chokpot Block, SGH.

*Countersigned*

*Marak*  
Deputy Commissioner  
South Garo Hills,  
Baghmara.