GOVERNMENT OF MEGHALAYA



INTEGRATED WATERSHED MANAGEMENT PROGRAMME

WEST GARO HILLS - IWMP-XIII

2012-2013



TURA SOIL AND WATER CONSERVATION
(T) DIVISION
WEST GARO HILLS, MEGHALAYA

DETAILED PROJECT REPORT

INTEGRATED WATERSHED

MANAGEMENT PROJECT

W.G.H. - IWMP -XIII

2012-2013

GAMBEGRE C&RD BLOCK

WEST GARO HILLS

MEGHALAYA

SUMMARY

Name of the Sate : Meghalaya

Name of the District : West Garo Hills District

Name of the C&RD Block : Gambegre,

Name of the Villages : Gambegre, Chigitchakgre, Jengchamgre

Sengminpara, Rakwapara, Somonpara

Name of the Project : West Garo Hills – IWMP –XIII

Total Geographical Area : 4287 Ha

Total Treatment Area : 2090 Ha

Total Project Cost : 313.500 lakhs

Project Duration : 5 Years

Project Implementing Agency : Soil & Water Conservation

Territorial Division, Tura

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CHAPTER I

INTRODUCTION AND BACKGROUND

1.1 Project Background:

The Integrated Watershed Management Programme Project - XIII is located at West Garo Hills under Gambegre C&RD Block, West Garo Hills District of Meghalaya, comprising of of 4(four) Micro Watershed i.e. 1. Sikkli Watershed, 2. Sokchon Watershed,

3. Wadro Watershed, 4. Mecheng Watershed. All the 4(four) Watershed consists of a single microwatershed, the project area is drained by the Sanda & Bandra River and its tributaries flowing in a South to North direction. The total area is 4287 Ha. with 2090 ha. to be treated under the Integrated Watershed Management Programme (IWMP).

The Project area is located at a distance of about 25.3 km from Sikkli Watershed, 52.3 Sokchon Watershed, 55 km. from Wadro Watershed & 45 Mecheng Watershed from Tura the District Headquarter . A total no. of 6(Six) villages are covered under this project. They are –

- 1. Sikkli Micro Watershed
- a.) Gambegre Village.
 - b.) Chigitchakgre village.
- 2. Sokchon Micro Watershed
- a) Jengchamgre village.
- b.) Sengminpara village.
- 3. Mecheng Micro Watershed
- a.) Somonpara village.
- 4. Wadro Micro Watershed
- a.) Rakwapara village.

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1.2 Micro-watershed Information:

The micro-watershed code is _____ as codified by the North East Space Application Centre (NESAC). The total area of the micro-watershed is 4287 Ha., with 2090 hectares to be treated under the Integrated Watershed Management Programme (IWMP).

1.3 Need and Scope for Watershed Development:

The micro-watershed W.G.H. IWMP - XIII falls under the High Priority category as per the prioritization of watersheds Super Map GIS prepared by Tura Soil & Water Conservation (T) Division, West Garo Hills, Meghalaya. The farmers are all marginal. 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. MNREGS

CHAPTER II BASIC INFORMATION OF THE PROJECT AREA

CHAPTER II BASIC INFORMATION OF THE PROJECT AREA

2.1 Location:

The Project area is located at West Garo Hills District. There are 11(eleven) villages within the Watershed which are as follows –

- 1. Gambegre Village.
- 2. Chigitchakgre village.
- 3. Jengchamgre village.
- 4. Sengminpara village.
- 5. Somonpara village.
- 6. Rakwapara village.

Following were the tables given below the location and its distance from the Tura Head Quarter of W.G.H. IWMP –XIII.

Name of the	Name of Micro	Geographical location	Distance from
Project	Watershed		Project Area to
			District HQtr.
	Sikkli Micro	90°08'30" N to 90°12'00" N	25.3 km.
	Watershed	25°24'00" E to 25°26'15" E	
	Sokchon Micro	90°02'15" N to 90°05' 15" N	52.5 km.
W.G.H.	Watershed	25°23'15" E to 25°19'30" E	
IWMP - XIII	Mecheng Micro	90°06'00" N to 90°08'15" N	45 km.
	Watershed	25°26'15" E to 25° 23'15" E	
	Wadro	90°04'30" N to 90°06'45" N	55 km.
	MicroWatershed	25°24'45" E to 25°21' 00" E	

2.2 Physiography:

The physiography of the micro-watershed is highly undulating. The altitude ranges from a minimum of 20 m to a high of 265 m above mean sea level. The slope ranges of each Watershed are given in the below noted tables.

Sl	Name of the Watershed	Lower	Middle	Upper	Elevation (m)
no.		reaches	reaches	reaches	
		(%)	(%)	(%)	
1.	Sikkli Watershed.	0 - 24	49 - 74	74 - 94	140 - 273
2.	Sokchon Watershed.	0 -14	42-56	70 - 84	59 -240
3.	Wadro Watershed	0 - 16	33 - 50	67 - 84	140 - 240
4.	Mecheng Watershed	0 - 17	34 - 52	69 -86	49 - 240

Table 2.1: Physiographic details

Name of Watershed	Slope Range (%)	Order of watershed Sub/Micro-watershed	Major streams	Topography
1. Sikkli W/S	0 - 94	2^{nd}	Sikkli stream, Chigitchak stream,Romi Stream, Damal Stream, Matchok stream, Jenggim Stream, Dokera Stream.	Gniss with old intiers, sela group
2. Sokchon W/S	0 - 84	3 rd	Banguri Stream , mandal Stream, Doringgek Stream , Sasat Stream, Teksra Stream.	(AP)
3. Wadro W/S	0 - 84	2 nd	Gonchu Stream, Wadro Stream, Belbeta Stream, Urijora Stream, Menda Stream	
4. Mecheng W/S.	0 - 86	3 rd	Mecheng Stream, Minja Stream, Chitippa Stream, Jada Stream, Chimeseng Stream, Jongdik Stream, Rongka Stream.	

2.3 Drainage :The major stream draining the micro-watershed is the Sikkli Stream, Sokkchon Stream, Wadro Stream, Mecheng Stream Etc which is a 2nd &3rd order stream. The slopes of the micro-watershed are dissected by numerous small tributaries flowing to the Grim River, Sanda River & Bandra River.

2.4 Soil:

Soil in general is moderately deep, excessively drained fine loamy soils in surface structure. They are moderately acidic in nature. The soil depth is deep to moderately deep. Due to uniform slopes and presence of many water courses, no drainage problem exist. The watershed area does not have a major erosion problem but of moderate erosion.

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

1	2	3	4	5	6	7	8	9		
Sl. No.	Names of State	Names of District	Names of Projects	Cause	Types of erosion	Area affected (ha)	Run-off (mm/ year)	Average soil loss (Tonnes/ ha/ year)		
				Water e	rosion:					
			XX74	A	Sheet					
			West	West	West Garo	В	Rill	2090	NA	NA
1	Meghalaya	Garo	Hills – IWMP XIII	С	Gully					
		Hills		Sub	total	2090				
				Wind en	rosion	nil	nil	Nil		

2.5 Climate :-

The Watershed lies under Central Hyper-thermic Agro-climatic plateau. The average annual rainfall is about 3600mm. Monsoon normally starts in the middle of May and last till middle of October. About 80% of the total annual rainfall is received from June to September. May and June are the hottest month recording average maximum temperature of 32°C. December and January accounts for lowest of 10°C to 12°C.

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

1	2	3	4	5	6	7		8	9							
Sl.	Name of	Name of	Area (in	Names of	Names of the	Major so	il types	Average annual rainfall	Major c	rops						
No.	State	the Agro- climatic zone	ha)	the districts	Projects	a) b) Area (ha)		in mm (preceding 5 years' average)	a) Name	b) Area (ha)						
										Paddy	189.7					
															Maize	98.5
		Central		West Garo	West Garo	West Garo	West Garo							Millet	78	
		Hyper-						West Garo	West Garo	West Garo	West Caro	West Garo	W.G.H. IWMP	W G H IWMP	st Caro W.G.H. IWMP	Fine clay
1	Meghalaya	thermic Agro- climatic	Agro- Hills. XIII loamy soil		Hills. XIII		4287	3600	Arecanut	123						
									TOTAL	558.2ha.						

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 paddy, potato, sweet potato, millet, maize, yam and vegetables etc. Fruit crops are well suited in the lower reaches which include, Elaegnus latifolia, orange, pineapple, jackfruit, litchi. The slopes of the W.G.H. IWMP – XIII are also very suitable for betel nut, betel leaf, black pepper, broomstick, cashewnut etc. which contribute to the income of the people.

Table 2.4: Crop yield and production 741.74

Crops	Crops Area (ha) Average Yield (Qtl) per ha.		Total Production (Qtl.)
Paddy	189.7	15	2845.5
Maize	98.5	20	1970
Millet	78	8	624
Ginger	69	35	2415
Arecanut 123 8		8	984
		TOTAL	8838.5

2.7 Natural Vegetation:

The tree species common to the watershed area includes – *Albizzia spp, Schima* wallichii, *Emblica officianalis, Bombax cieba*, and *bamboo spp*. However, due to Jhum cultivation and stone quarry, 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. The entire population depends upon agriculture and horticulture, daily labour in the stone quarry for sustenance.

<u>Demographic Status</u>: The total households in the watershed project are 378 nos. with a total population of 1905 nos, which 956 nos, are male and 948 nos are female.

- 1. Gambegre Village.
- 2. Chigitchakgre village.
- 3. Jengchamgre village.
- 4. Sengminpara village.
- 5. Somonpara village.
- 6. Rakwapara village.

Infrastructure facilities:

- 2.1.1 *Roads*: All the villages within the Project Area are not connected by road. The Project area depends entirely on the kutcha road connected either to PWD main Road.
- 2.1.2 *School*: There are only 6 L.P Schools & 3 U.P Schools, 2(two) Secondary School within the Project Area run either by the Community.
- 2.1.3 *Electricity*: At present there is electricity connection in the Project Area
- 2.1.4 *Health*: There is no Community Health Centre Within the Project Area
- 2.1.5 *Water Supply*: There is drinking water supply by the PHE Deptt.. in the area but was not maintained properly and was not sufficient to meet the daily requirement.
- 2.1.6 *Market*: There is a weekly market held once in a week Gambegre, Bolori in the main market where the people sell their produce is at Tura.

Table 2.5: Infrastructure Status.

1	2		3			4		
Name of District	Name of Project		Parameters:		Sta	atus		
		(i)	No. of villages connected to the main road by an all-weather road.		from th	at 1 hr to ne motora		
West Garo Hills	West Garo Hills – IWMP XIII	(ii)	No. of village provided with electricity	60 %				
		(iii)	No. of households without access to drinking water	40 %				
		(iv)	No. of educational institutions:	(P)	(S)	(HS)	(VI)	
			Primary (P)/ Secondary (S)/ Higher Secondary (HS)/	6	3	2	-	
		(v)	Vocational institution (VI) No. of village with access to Primary Health Centre	Nil	Nil			
		(vi)	No. of village with access Veterinary Dispensary	Nil	Nil			
		(vii)	No. of village with access Post Office	Nil				
		(viii)	No. of village with access Banks	1(one) (Gambeg	re		
		(ix)	No. of village with access Markets/ mandis	2 (two)	Gambeg	gre, Boloi	i	
		(x)	No. of village with access Agro- Industries	Nil				
		(xi)	Total quantity of surplus milk	Nil				
		(XIII)	No. of milk collection centres	(U)	(S)	(PA)	(O)	
			(e.g. Union (U)/ Society (S)/ Private agency (PA)/ Others (O))	Nil	Nil	Nil	Nil	
		(XIIIi)	No. of villages with access to Aganwadi Centres	5 nos.				
		(xiv)	Any other facilities with no. of villages (Church)	6 nos.				

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

2.7 Land ownership:

The proposed project is under the "A' king land tenure system. prevailing in Garo Hills District of Meghalaya in which a land is held a particular class {Mahari} under the custody of the Head of the Clan or a Village Chief called "Nokma" recognized as such by the Garo Hills District Councils.

Table 2.7: Land Holding:

1	2	3	4	5		6	
Name of	Name of	Types of Farmer		Land holding (ha)			
District	the Project	-J F ** ** - **-	households	households	Irrigated	Rainfed	Total
		(i) Large	-	-	-	-	-
West	West Garo	(ii) Small	98	-	-	53.68	53.68
Garo	Hills –	(iii) Marginal	280	-	-	80.52	80.52
Hills	IWMP XIII	(iv) Landless		-	-	-	-
		Sub - Total	378	-	-	-	134.2

Table 2.5: Common Property Resources in the Project Area

1	2	3			4				5	
	Name		Total Area (ha) Area owned/ In possession of				Area available for treatment (ha)			
Name of District	of the Projec ts	CPR Particulars	Pvt. Person	(I		Any other (Community	Pvt. Person	Govt. (specify deptt.)	PRI	Any other (Community)
		(i) Wasteland/ degraded land				97				1186.56
		(ii) Pastures								
		(iii) Agriculture land (horti /crop land)	134.2			1103.8				151.71
	West	(iv) Current jhum				704				
West	Garo	(v) Forest open				2016				751.73
Garo	Hills	(vi) Scrub forest								
Hills	IWMP	(viiBuild up areas	232							
	XIII	(viii) Weekly Markets								
		(ix) Permanent Markets								
		(x) Temples/ Places of worship								
		(xi) Others (Pl. specify) Horticulture.								
	,	TOTAL	366.2			3920.8				2090

2.9 Land use and land cover:

As per the land use land cover map Watershed area has been broadly classified into the following land uses.

a)	Current jhum	=	704 Ha
b)	Built up areas	=	232 Ha
c)	Wasteland	=	97 Ha
d)	Forest open	=	2016 Ha
e)	Agriculture land	=	1238 Ha

Total = 4287 Ha

2.10 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 Stone Quarry areas which has further degraded the capability of the land. Road communication is another infrastructural problems that the area is facing where large volume crops like pineapple, jackfruits etc do not find their way into the market which has resulted in poor socio-economic status of the people. However, to control or to overcome the said problems an innovative approach has been formulated and documented in the Action Plan or the Treatment Plan the Detailed Project Report. The method of identification of the problems is through the Participatory Rural Appraisal Exercises is conducted in all the villages within the Watershed.

Further the major problems in the project area are :-

- (i) Unsustainable exploitation of forest vegetation.
- (ii) Absence of soil and water conservation measures.
- (iii) Lack of technical knowledge on crop management and water management.
- (iv) Poor socio economic set up.
- (v) Fire hazards

CHAPTER III PROJECT PLANNING & INSTITUTION BUILDING

CHAPTER III

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 DWCDC, Tura Soil & Water Conservation. The activities were located on the field by using GPS and accordingly transferred to the maps on GIS platform.

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

1	2	2
Sl. No.	Scientific criteria/ inputs used	No. of projects in which scientific criteria were used
A.	Planning	
	Cluster approach	3
	Whether technical back-stopping for the project has been	_
	arranged? If yes, mention the name of the Institute.	
	Baseline survey	YES
	Hydro-geological survey	NO
	Contour mapping	YES
	Participatory Net Planning (PNP)	YES
1	2	2
	Remote sensing data-especially soil/ crop/ run-off cover	YES
	Ridge to Valley treatment	YES
	Online IT connectivity between	
	(1) Project and DRDA cell/ZP	YES
	(2) DRDA and SLNA	YES
	(3) SLNA and DoLR	YES
	Availability of GIS layers	
	1. Cadastral map	NO
	2. Village boundaries	NO
	3. Drainage	YES
	4. Soil (Soil nutrient status)	YES
	5. Land use	YES
	6. Ground water status	NO
	7. Watershed boundaries	YES
	8. Activity	YES
	Crop simulation models [#] Integrated coupled analyzer/ near infrared visible spectroscopy/	NO
	medium spectroscopy for high speed soil nutrient analysis	NO
	Normalized difference vegetation index (NDVI)#	NO
	Weather Stations	YES
В.	Inputs	1135
٥.	1. Bio-pesticides	NO
	2. Organic manures	YES
	3. Vermi-compost	YES
	4. Bio-fertilizer	YES
	5. Water saving devices	YES
	6. Mechanized tools/ implements	NO
	7. Bio-fencing	YES
	8. Nutrient budgeting	NO
	Automatic water level recorders & sediment samplers	YES

3.2 Project Implementing Agency:

The PIA is the Soil & Water Conservation Territorial Division, Tura West Garo HillsDistrict of Meghalaya. The Project Manager will be the Divisional Soil and Water Conservation Officer and will be assisted by an Asst. Soil & Water Conservation Officer along with WDT members in which expertise is drawn from the relevant fields for achieving smooth and successful implementation of the project.

1	2			3
Names of Districts	Names of projects			Details of PIA
		(i)	Type of organization#	Government
		(ii)	Name of	Soil & Water Conservation (T)
			organization	Division,
West Garo	W.G.H. IWMP-	(iii)	Designation &	Divisional Officer, Tura Soil &
Hills	XIII		Address	Water Cons.(T) Division, W.G.H,
				Tura Meghalaya.
		(iv)	Telephone	03651-222354
		(v)	Fax	03651-222354
		(vi)	E-mail	turadivsoil@gmail.com

3.3 Institution Building

i) Watershed Committee (WC)

The Watershed Committee of the IWMP-XIII was constituted with the active involvement of the villagers with strong support of the Traditional Institutions (Village Durbar/Council). The W.G.H. IWMP-XIII Watershed Committee has been registered under the Society Registration Act 1983

Table 3.2: Details of Watershed Committees (WC):

1	2	3	4	5	6	7	8	9	10	1 1	12	13	14	15	16	17	18
Names of the District s	Names of projects	Names of WCs	Date of Registrat ion as a Society (dd/mm/ yyyy)	Designa tion	M/F	SC	ST	SF	MF	LF	Land- less	UG	SHG	GP	Any		Function/s assigned#
		i.)Sikkli.		Preside nt	M		S T										A to I
	MP	ii)Sokchon		Secretar y	F		S T										A to I
W.G. H	W.G.HIWMP XIII	iii)Wadro	Under progress	Member	8 M		S T										A to I
	W.G	iv)Mechen g		Member	2 F		S T										A to I
				Member			S T										

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

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	Names	Total no	o. of reg	istered (SHGs	No.	of mem	bers		No. of each					BPL in tegory
of the District s	of	With only Men	With only Wo men	With both	Tot al	Categor ies	M	F	Tot al	M	F	Tota l	M	F	Total
W.G.H	WGH IWM P XIII	1	2	1	4	(i) Landless (ii) SF (iii) MF (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 Nil

1	2		3				4				5			6	
Names of	Names of	r	Fotal no	. of Ug	gs.	No. of	mei	mbe	ers	i	of S n ea		No.	of BP h cates	
Districts	Projects	Me n	Wom en	Bot h	Tota l	Categories	M	F	Total	M	F	Tot al	M	F	Tota l
						(i)Landles s									
West Garo	W.G. H.					(ii) SF									
Hills	IWMP XIII					(iii) MF									
						(iv) LF									
Total					NIL				NIL			NI L			NIL

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	W.G.H	W.G.H IWMP XIII	12.54	Spring Chamber	12.54	12.54	Nil	N.A	Safe drinking water facility.

i) Other activities of Preparatory Phase:

1	2	3	4	5	6	7	8	9	10	11	12	13
District	Name of Projects	Initiation of village level institution	Capacity building	IEC activities	Baseline survey	Hydro- geologi cal survey	Identifyi ng technical support agencies	Resource agree-ments	Prepara tion of DPR	Evalua tion of DPR	Any other (please specify)	Cost incurr ed (Rs. In lakh)
W.G.H	W.G.H IWMP XIII	26	61	a)Pamphlets b)Banners c)Posters	Done	Done	Done	Done	Done ·	Done	-	-

4.2 Watershed Works Phase:

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

1	2	3	4	5		6								7					
						Pre Pro	ject	I		ation/ repa		Cons		sed Project of new stru			Total	l target	
S l. N o	Nam e of State s	Name of Distri cts	Name of Projects	Type of structures	N o	Are a irrig ated (ha)	Stor age capa city	No	Area to be treate d (ha)	Storag e capacit y	Estima ted cost (in lakhs)	No	Area to be treate d (ha)	Storage capacity (per unit)	Estim ated cost (in lakhs)	No	Area to be treate d (ha)	Storag e capaci ty (m³)	Estima ted cost
1				C.C. Irri. Dam	-	-	-	-	-	-	-	8	266.9 3	2882.84 m³	40.03 950	8	266.9	23062 .72 m³	40.039 50
			W.G.H IWMP XIII	Water harvesting Structure	-	-	-	-	-	-	-	5	150.2	4145.52 m³	22.53	5	150.2	20727 .6 m³	22.53
	Meghalaya	West Garo		Dugout Pond	-	-	-	-	-	-	-	18	120	12096 m³	18.0	18	120	21772 8m³	18.0
	Megh	Hills		Protection Wall	-	-	-	-	-	-	-	24	160	-	24.0	24	160	-	24.0
				Earthen Irri. Channel								1284	16.84 rmt	-	2.526	1284 rmt	16.84	-	2.526
			Total		-	-	-	-	-	-	-	55 nos & 1284 rmt	713.97		107.09 550	55 nos & 1284 rmt.	713.97		107.09 550

					8						9	10
				Achie	evement di	ue to projec	t					
Augm	agmentation/ 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 irrigate d (ha)	Storage capacity	Expenditu re incurred (in lakhs)	No	Area irrigated (ha)	Storage capacity	Expenditur e incurred (in lakhs)	Area irrigated (ha)	Storage capacity	Estimated incurred		
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-									-
-	-	-	-								-	-
-	-	-	-	-	-	-	-					
				-	-	-	-	_	-	-	-	-

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

1		2	3	4		5					6								7				8
			_		Pre-	project			I	Propo	sed tar	get					Achie	vemei	nt due to	projec	t		
Names Of	States	Names of Districts	Names of projects	Type of structures		Area	repa re	gmenta ir of ex echargi tructur	isting ng	nev	nstruct v recha structu	rging	Total	target	repa r	gmentati air of exist echargin structure	sting g	nev	nstructi v recha structui	rging		otal vement	Change in irrigate
Nan O	SIS	Names of	, .		No.	irrigate d (ha)	No.	Area to be irriga ted (ha)	Estim ated cost	No.	Area to be irriga ted (ha)	Estim ated cost	Area to be irrigat ed (ha)	Estim ated cost		Area irrigate d (ha)	Expe ndi- ture incu rred		Area irri- gated (ha)	Expe ndi- ture incur red	Area irri- gated (ha)	Expen di-ture incurr ed	d area (Col. 8-6) (ha)
				(i)Open wells (ii)Bore		Nil		NIL			NII		NIL			NIL			NIL		NIL		NIL
		IIs		wells																			
Meohalava		West Garo Hills	IWMP	(iii)Any others (Pl. specify) Dug Out Pond	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				Spring Chamber	-	-	-	-	1	16	-	12.54	-	12.54	-	-	1	-	-	-	-	-	-
				Total	-	-	-	-	-	16	-	12.54	-	12.54	-	-	-	-	-	-	-	-	-

4.2.3 Activities executed by User Groups in the Project Areas.

	2				3			
Names of	Names of		Major activities of	the UGs –Ta	rgets			
Districts	Projects		Structure/ activ	vity proposed	1	No. of UGs	Estimated	Amount of WDF
		Sl. No.	Type	No.#	Treatment (ha)	involved	Cost	to be collected
		1.	C.C irrigation Dam	8	266.93	8	40.0395	2.001975
		2	Check Dam	-	-	-	-	-
		3	Water Harvesting Structure	5	150.2	5	22.53	1.1265
	W.G.H	4	Earthen Irrigation Channel	5052	16.84	5	2.526	.1263
W.G.H	IWMP-	5	Dug out Pond	24	160	24	24.0	1.2
	XIII	6	Protection Wall	18	120	18	18.0	.9
		7	Spring Chamber	16	83.6	16	12.54	.627
		TOTAL		71 nos. & 1284 Rmt.	797.57 ha.	76	119.6355	4.781775

4.2.4 Activities executed by User Groups in the Project Areas:

					4				
			M	ajor activities of	the UGs – Achieven	nents			
	Struct	ture/ acti	vity	No. of UGs	Expenditure	No.	of manday	s	Amount of WDF
Sl. No.	Type	No.#	Treated Area (ha.)	involved	incurred (Rs.)	SC	ST	F	collected (Rs.)
-	-	-	-	-	=	=	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	=	-	-	-	-	-	=	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-

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

1	2		3	
			Major activities of the SHG	S
Names of the Districts	Names of projects	Name of activity	No. of SHGs involved	Average annual income from activity per SHG
		Power tiller	1	34000
		Poultry	14	89000
	W.G.H	Rubber Nursery	12	134000
West Garo Hills	IWMP-XIII Total	Integrated Farming	4	78000
		TOTAL	31	335000

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

4		4	5		6	7		8		9	10
No. of	Total	assistance re (Amoun	ceived by the t in Rs.)	SHG	Total annual	Total annual	G	. of S rade	HGs d as	Fotal Amount	
SHGs given training	Loan from revolving fund	Training Material Other (pl. speci			Income	Total annual Savings (Rs.)		II	III	of loan sanctioned by the bank(s)	No. of SHGs federated
		N I		L							

4.2.7 Other activities of watershed works phase:

1	2	3			4 5			6			7				10			11	12	13																																				
District	of projects Ridge area treatment Drainage line treatment		Drainage line treatment		Drainage line treatment		Drainage line treatment		Drainage line treatment		Drainage line treatment		Drainage line treatment		Drainage line treatment		Drainage line treatment		Drainage line treatment		Drainage line treatment		Drainage line treatment		Drainage line treatment		Drainage line treatment		Drainage line treatment		Drainage line treatment		Drainage line treatment		Drainage line treatment		Drainage line treatment		Drainage line treatment		Nursery	raising	Land	development	Horticulture Development		Pasture Development		Veterinary		Fishery development		Non- conventional energy		Any other (please specify)	Fotal cost incurred (Rs. In lakhs)
Q	Names of	(a) Ha.	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)	Fotal cost i																																		
West Garo Hills	WGH – IWMP - XIII	254	9.14 40	713. 97	107.09 550	12	19.1 50	159. 2	16.58 550	28 4.9	42. 735	-	-	142	14.44	-	-	1	2.0	i.) Vegetable Cultivation ii.) Tailoring iiiCarpentry iv)Vermicomposting (8unit) v)Integrated Farming	12.25 2.7 1.925 1.10 6.0																																			
	Total	254	9.14 40	713. 97	107.09 550	12	19.1 50	159. 2	16.58 550	28 4.9	42. 735	-	-	142	14.44	-	-	1	2.0		23.975	235.1 25																																		

4.2.8 Details of engineering structures in watershed works:

1	2	3	4			5			6	7							8							
						Type of treatment		Tyl	Type of land		Executing agency	Target							Achievement					
District	Project	Name of structures	(i) Ridge area (R)	(ii) Drainage line (D)	(iii) Land Dev. (L)	(i) Private	(ii) Com-munity	(iii) Others (pl. specify)	(i) UG (ii)SHG (iii) Others (pl. specify)	of]	Estimated cost (Rs. in lakh)			Expected month & year of completion (mm/vvvy)	No. of Units (No./ cu.m./ rmt)	Expenditure incurred (Rs. in lakh)			re :	Status of comple- tion	Actual month & year of completio n (mm/yyyy)		
										vo.	M	W	0	T			M	W	O	T				
		Dug out Pond		D		P			Individual	18		18.0		18.0	2 years	-	-	-		-	-	-		
		Terracing			L	P			Individual	57.5		11.5		11.5	3 years	-	-	-		-	-	-		
		Impmnt of existing paddy			L				Individual	101.7		5.0855		5.08550	2 years									
		Protection Wall		D			C		User Group	24	9.6	14.4		24.0	2 years	-	-	-		-	-	-		
W.G.H	W.G.H IWMP XIII	Earthen irrigation Channel		D			С		User Group	1284		2.526		2.526	2 years	-	1	1		-	-	-		
		Water Harvesting farm pond.		D			C		User Group	5	9.012	13.518		22.53	2 years	-	-	ı		-	-	-		
		C.C.Irrigation Dam		D			С		User Group	8	16.01 58	24.023 7		40.0395 0	2 years	-	ı	ı		-	-	-		
		SpringChamber	•	D			C		User Group	16	5.016	7.524		12.54	2 years	-	-	-		-	-	-		
		Total									39.64 38	96.577 2		136.221		-	-	-		-	-	-		

4.2.9 Details of engineering structures in watershed works.

	4.2.9 Details of engineering structures in watersned works.																
	9																
	Outcomes																
Reduction in run off (cu.m)		Water level (m)		Production (quintal)		Income (Rs.)			М	andays ge	enerated		No. of beneficiaries				
	Area treated																
	(ha)	Pre- project	Post project	Pre- project	Post project	Pre- project	Post project	SC	ST	Others	Women	Total	SC	ST	Others	Women	Total
NA	-	NA	-	NA	-	NA	-	-	5794632		3863088	965772		1143	-	762	1905
NA	-	NA	-	NA	-	NA	-	-	5794632		3863088	965772		1143	-	762	1905

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

1	2	3		4			5		6			7				8	
			Тур	e of treati	nent	Т	ype of l	and	Executing agency		,	Target				Achievement	
Distr ict	Project	Name of structure/ work	(i) Ridge area (R)	(ii) Drainag e line (D)	(iii) Land dev. (L)	(i) Priva te	(ii) Comm unity	(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 comple- tion (mm/ yyyy)	Area (ha)	No. of plants	Expendi-ture incurred (Rs. in lakh)	Actual month & year of comple-tion (mm/ yyyy)
		Improvement of degraded forest.	R				С		UG/SHG	254		9.1440	1 year	-	-	-	-
	WGH																
WGH	IWMP- XIII	Rubber Plantation	R				С	Indiv idual	UG/Individual	284.9		42.7350	3 years	1	-	-	-
		TOTAL								538.9		51.8790		-	-	-	-

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

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

							9					,		
							Outcon	nes						
	Produ	ıction	Inco	ome			Mandays g	enerated				No. of bene	ficiaries	
Reduction in	(qui	ntal)	(R	s.)										
run off (cu.m)	Pre- project	Post project	Pre- project	Post project	SC	ST	Others	Women	Total	SC	ST	Others	Women	Total
NA														
NA	Nil													
NA														

4.2.12 Details of allied / other activities:

1	2	3		4		5		6	,	7
				Type of lan	nd	Executing agency		Target	Achiev	vement
District	Project	Name of activity	(i) Private	(ii) Communit y	(iii) Others (landless)	(i) UG (ii)SHG (iii) Others (pl. specify)	Estimate d cost (Rs. in lakh)	Expected month & year of completion (mm/yyyy)	Expenditure incurred (Rs. in lakh)	Actual month & year of completion (mm/yyyy)
		Vegetable Cultivation	P			Individual/UG /SHG	12.250	3 years	1	-
		Tailoring			L	Individual/UG /SHG	2.25	3 years	1	1
		Carpentry			L	Individual/UG /SHG	2.7	2 years	-	-
		Vermi composting			L	SHG/UG	1.1	2 years	-	-
West	W.G.H	Piggery			L	SHG	10.24	3 years	-	-
Garo Hills	IWMP- XIII	Integrated farming			L	Individual/UG /SHG	6.0	1 years	-	-
		Poultry			L	Individual/UG /SHG	4.20	3 years	-	-
		Power Tiller			L	SHG	2.0	1 year	-	-
		Group Rubber Poly Bag nursery			L	SHG	19.15	3 years	-	-
			_						-	-
		Total					59.565	-	-	-

(Contd.)

* from column no. 2, no. of States; from column no. 3, no. of Districts; from column no. 4, total no. of Projects; from column no. 5, activity-wise totals, from column no. 6, type-wise totals, from column no. 7, agency-wise totals, from column no. 8, total estimated cost, from column no. 9, total expenditure incurred, structure-wise no. of completed works, from column no. 10, item-wise totals, for the entire country may be indicated at the end of the table @The activities given in this column are merely indicative and States are free to choose any other activity suited to the project area.

4.2.13 Details of allied / other activities:

				:	8						
				Outo	comes						
Income (Rs.)			Ma	andays ge	nerated				No. of bene	eficiaries	
Pre-project	Post project	SC	ST	Others	Women	Total	SC	ST	Others	Wome n	Total

4.3 Consolidation and withdrawal phase Details of activities in the CPRs in the project areas:

1	2	3	4	5			6				7				
						Ta	arget				Achieve	ment			
Names of The	of	Name(s) Of the	CPR particular	Activity proposed	Target area under	Estimated expenditu	no. of	Estimated contributio	Area treated under	Expen diture	no. of	No. o	of man	days	WDF collected (Rs.)
Districts	projects	villages	S		the activity (ha)	re (Rs.)	beneficiari es	n to WDF (Rs.)	the activity (ha)	d (Rs.)	benefici- aries	SC	ST	F	WDF (
				i.)Improvemen t of degraded	254	9.144	245	0.4572							
				ii.) Rubber Plantation	284.9	42.7350	213	2.13675	-	-	-	-	-	-	-
West Garo Hills	W.G.H IWMP XIII		Streams	C.C.irrigation Dam	8 nos.	40.03950	560	2.001975	-	-	-	-	-	-	-
			A - 1. 1- 1. 1	1. Protection Wall	24 nos.	24.0	112	1.2							
				2. Earthen irrigation Channel.	1284 rmt	2.5260	560	0.1263	-	-	-	ı	1	-	-
				Spring chamber	16 nos.	12.54	160	-	-	-	-	-	-	-	-
			Water	i)Water harvesting	5 nos.	22.53	134	1.1265							
				farm pond ii) Dugout pond	18 nos.	18.0	112	.90	-	-	-	ı	ı	-	-

CHAPTER V PROJECT PHASING & BUDGETING

CONSOLIDATED ACTION PLAN FOR WGH-IWMP-XIII(BATCH-IV) UNDER TERRITORIAL DIVISION, TURA.

Name of District : West Garo Hills

No. of villages Covered:

8 nos

Name of C. & R. D. Block : Gambegre

Project Area:

2090 Ha

Name of Project: WGH-IWMP-XIII

Total Project Cost

313.50 Lakh

(Figures in lakh)

1	2		3	4	5	6	7	8	9	10	11	12	13	14
SI.			l st	: Yr. (6%)	II nd	Yr. (14%)	III rd	Yr. (50%)	IV th \	/r. (25%)	V th	Yr. (5%)	To	tal 100%
No.	Activities		Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.
1	Management Cost:	_												
Α	Administrative Cost: 10 %				2%	6.27000	5%	15.67500	3%	9.40500	-	-	10%	31.35000
	i) Honorarium of 1 WDT Member	month	0	0	24	2.40000	48	4.80000	48	4.80000	0	0	120	12.00000
	ii)Honorarium of WC Chairman	month	0	0	20	0.10000	24	0.12000	24	0.12000	0	0	68	0.34000
	iii) Honorarium of WCM	month	0	0	16	0.25600	24	0.38400	20	0.32000	0	0	60	0.96000
	iv) TA for WDT members	month	0	0	24	1.20000	48	2.40000	48	2.40000	0	0	120	6.00000
	v)Office expenses		0	0	0	2.31400	0	7.97100	0	1.76500	0	0	0	12.05000
	Total Of 'A'			0.00		6.27000		15.67500		9.40500		0.00		31.35000
	Preparatory Phase :													
В	Entry Point Activities ; 4 %		4%	12.54000									4%	12.54000
	i)Spring chamber @ Rs. 75000/-	nos	16	12.54000									16	12.54000
	Total of 'B'		16	12.54000		0.00		0.00		0.00		0.00		12.54000

_														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14

C.	Institution & Capacity Building ; 5 %		1%	3.13500	2%	6.27000	1%	3.13500	1%	3.13500			5%	15.67500
	i) Awareness Campaign	nos	20	3.13500	0	0	3	0.45000	3	0.45000	0	0	26	4.03500
	ii) Exposure visits off-campus	nos	0	0	0	0	0	0	0	0	0	0	0	0.00000
	iii)Capacity Building of SHGs/Ugs/farmers	nos	0	0	16	3.20000	8	1.60000	8	1.60000	0	0	32	6.40000
	iv) Capacity Building of WC members	nos	0	0	12	2.40000	4	0.80000	5	1.08500	0	0	21	4.28500
	v) Capacity Building of WDT/W Volunteer	nos	0	0	6	0.67000	2	0.28500	0	0	0	0	8	0.95500
	Total of 'C'		20	3.13500	34	6.27000	17	3.13500	16	3.13500	0	0	87	15.67500
D.	Detail Project Report (DPR) - 1%		1%	3.13500									1%	3.13500
	i) Cost of Resources Inventories works		0	0	0	0	0	0	0	0	0	0	0	0.00000
	ii) Cost of PRA		0	0.80000	0	0	0	0	0	0	0	0	0	0.80000
	iii) Cost of Land use survey		0	0.80000	0	0	0	0	0	0	0	0	0	0.80000
	iv) Cost of formulating		0	1.53500	0	0	0	0	0	0	0	0	0	1.53500
	Total of 'D'			3.13500		0		0		0		0		3.13500
E.	i) Monitoring - 1%				0.20%	0.62700	0.50%	1.56750	0.30%	0.94050			1%	3.13500
F.	ii) Evaluation - 1%				0.30%	0.94050	0.50%	1.56750	0.20%	0.62700			1%	3.13500
	Total of 'E'			0		1.56750		3.13500		1.56750		0		6.27000
Ш	Watershed Works Phase: 56 %				7.50%	23.51250	37%	115.99500	11.50%	36.05250			56%	175.56000
Α.	Arable Land Treatment:	_												
	i) Terracing	На	0	0	10	2.00000	40	8.00000	7.5	1.50000	0	0	57.5	11.50000
	ii) Improvement of existing paddy field	На	0	0	0	0	80	4.00000	21.71	1.08550	0	0	102	5.08550
	Total of 'A'		0	0	10	2.00000	120	12.00000	29.21	2.58550	0	0	159	16.58550
В.	Non-Arable Land Treatment :													
	i)Improvement of degraded forest	На	0	0	0	0	254	9.14400	0	0	0	0	254	9.14400
	ii)Rubber Plantation	На	0	0	7.5	1.12500	258	38.67000	19.6	2.94000	0	0	285	42.73500
	Total of 'B'		0	0	7.5	1.125	512	47.81400	19.6	2.94000	0	0	538.9	51.87900

1	2		3	4	5	6	7	8	9	10	11	12	13	14
C.	Drainage Line Treatment :													
	i) C.C. Irrigation Dam	nos	0	0	4	20.01250	0	0	4	20.02700	0	0	8	40.03950
	ii) Water harvesting structure	nos	0	0	0	0	4	18.03000	1	4.50000	0	0	5	22.53000
	iii) Dug out Pond	nos	0	0	0	0	15	15.00000	3	3.00000	0	0	18	18.00000
	iv) Protection Wall	nos	0	0	0	0	21	21.00000	3	3	0	0	24	24.00000
	v) Earthen Irrigation Channel	nos	0	0	3	0.37500	1281	2.15100	0	0	0	0	1284	2.52600
	Total of 'C'			0		20.38750		56.18100		30.52700		0		107.09550
	Total of II(A to C)	На	0	0	17.5	23.51250	632	115.99500	48.81	36.05250	0	0	698.1	175.56000
==	<u>Livelihood Activities for Assetless Person</u> - <u>9%</u>	-			1%	3.13500	3%	9.40500	5%	15.67500			9%	28.21500
	i) Vegetable cultivation	unit	0	0	23	2.35000	39	3.90000	60	6.00000	0	0	122	12.25000
	ii) Tailoring	unit	0	0	1	0.10000	8	0.80000	18	1.80000	0	0	27	2.70000
	iii) Carpentry	unit	0	0	0	0	17	0.85000	21	1.07500	0	0	38	1.92500
	iv) Vermi composting	unit	0	0	4	0.52500	4	0.57500	0	0	0	0	8	1.10000
	v) Piggery unit	unit	0	0	2	0.16000	41	3.28000	85	6.80000	0	0	128	10.24000
	Total of III		0	0	26	3.13500	54	9.40500	89	15.67500	0	0	169	28.21500
IV	Production System & Micro Enterprises - 10%	_			1%	3.13500	3%	9.40500	6%	18.81000			10%	31.35000
	i) Power tiller	unit	0	0	0	0	0	0	1	2.00000	0	0	1	2.00000
	ii)Poultry	unit	0	0	3	0.90000	7	2.10000	4	1.20000	0	0	14	4.20000
	iii)Rubber nursery	unit	0	0	4	2.23500	4	7.30500	4	9.61000	0	0	12	19.15000
	(iv) Integrated farming	unit	0	0	0	0	0	0	4	6.00000	0	0	4	6.00000
	Total of IV			0		3.13500		9.40500		18.81000		0		31.35000

1	2	3	4	5	6	7	8	9	10	11	12	13	14
V	Consolidation & withdrawal Phase - 3%									3%	9.40500	3%	9.40500
	i) Repairing & maintenance of CPR's										7.60500	0	7.60500
	ii)Documentation & final report preparation										1.80000	0	1.80000
	Total of V		0		0		0		0		9.40500		9.40500
	Grand Total												
	(1+11+111+1V+V)	6%	18.81000	14%	43.89000	50%	156.75000	27%	84.64500	3%	9.40500	100%	313.50000

ACTION PLAN OF SIKKILI MICRO WATRSHED (IWMP) UNDER TERRITORIAL DIVISION, TURA.

Name of District : West Garo Hills

No. of villages Covered :

Name of C. & R. D. Block : Gambegre Project Area : 590 Ha

Name of Project: WGH-IWMP-XIII Total Project Cost 88.50 Lakh

(Figures in lakh)

2 nos

1	2		3	4	5	6	7	8	9	10	11	12	13	14
SI.			l st	Yr. (6%)	II nd '	Yr. (14%)	III rd	Yr. (50%)	IV th Y	′r. (25%)	V th	Yr. (5%)	Tot	al 100%
No.	Activities		Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.
ı	Management Cost :	_												
Α	Administrative Cost: 10 %				2%	1.77000	5%	4.42500	3%	2.65500	-	-	10%	8.85000
	i) Honorarium of 1 WDT Member	month			6	0.60000	12	1.20000	12	1.20000			30	3.00000
	ii)Honorarium of WC Chairman	month			5	0.02500	6	0.03000	6	0.03000			17	0.08500
	iii) Honorarium of WCM	month			4	0.06400	6	0.09600	5	0.08000			15	0.24000
	iv) TA for WDT members	month			6	0.30000	12	0.60000	12	0.60000			30	1.50000
	v)Office expenses					0.78100		2.49900		0.74500			0	4.02500
	Total Of 'A'			0.00		1.77000		4.42500		2.65500		0.00		8.85000
	Preparatory Phase :													
В	Entry Point Activities ; 4 %		4%	3.54000									4%	3.54000
	i)Spring chamber	nos	4	3.54000									4	3.54000
	Total of 'B'			3.54000		0.00		0.00		0.00		0.00		3.54000

1	2		3	4	5	6	7	8	9	10	11	12	13	14
C.	Institution & Capacity Building ; 5 %		1%	0.88500	2%	1.77000	1%	0.88500	1%	0.88500			5%	4.42500
	i) Awareness Campaign	nos	5	0.88500	0	0		0		0			5	0.88500
	ii) Exposure visits off-campus	nos		0		0		0		0			0	0.00000
	iii)Capacity Building of SHGs/Ugs/farmers	nos		0	4	0.80000	2	0.40000	2	0.40000			8	1.60000
	iv) Capacity Building of WC members	nos		0	3	0.60000	1	0.20000	2	0.48500			6	1.28500
	v) Capacity Building of WDT/W Volunteer	nos			3	0.37000	2	0.28500		0.00000			5	0.65500
	Total of 'C'		5	0.88500	10	1.77000	5	0.88500	4	0.88500	0	0	24	4.42500
D.	Detail Project Report (DPR) - 1%		1%	0.88500									1%	0.88500
	i) Cost of Resources Inventories works												0	0.00000
	ii) Cost of PRA			0.20000									0	0.20000
	iii) Cost of Land use survey			0.20000									0	0.20000
	iv) Cost of formulating			0.48500									0	0.48500
	Total of 'D'			0.88500		0		0		0		0		0.88500
E.	i) Monitoring - 1%				0.20%	0.17700	0.50%	0.44250	0.30%	0.26550			1%	0.88500
F.	ii) Evaluation - 1%				0.30%	0.26550	0.50%	0.44250	0.20%	0.17700			1%	0.88500
	Total of 'E'			0		0.44250		0.88500		0.44250		0		1.77000
II	Watershed Works Phase: 56 %	_			7.50%	6.63750	37%	32.74500	11.50%	10.17750			56%	49.56000
A.	Arable Land Treatment:													
	i) Terracing -	На			2.5	0.50000	10	2.00000	2.5	0.50000			15	3.00000
	ii) Improvement of existing paddy field	На			0	0	20	1.00000	3.55	0.17750			23.55	1.17750
	Total of 'A'		0	0	2.5	0.50000	30	3.00000	6.05	0.67750	0	0	38.55	4.17750
В.	Non-Arable Land Treatment :													
	i)Improvement of degraded forest	На					63.5	2.28600					63.5	2.28600
	ii)Rubber Plantation	На			7.500	1.12500	68.8	10.32000					76.300	11.44500
	Total of 'B'		0	0	7.500	1.12500	132	12.60600	0	0.00000	0	0	139.8	13.73100

1	2		3	4	5	6	7	8	9	10	11	12	13	14
C.	Drainage Line Treatment :													
	i) C.C. Irrigation Dam	nos			1	5.01250	0	0	1	5.00000			2	10.01250
	ii) Water harvesting structure	nos			0	0	1	4.50000	1	4.50000			2	9.00000
	iii) Dug out Pond	nos			0	0	6	6.00000					6	6.00000
	iv) Protection Wall	nos			0	0	6	6.00000	0	0			6	6.00000
	v) Earthen Irrigation Channel	nos					1278	0.63900					1278	0.63900
	Total of 'C'			0		5.01250		17.13900		9.50000		0		31.65150
	Total of II(A to C)	На	0	0	10	6.63750	162	32.74500	6.05	10.17750	0	0	178.35	49.56000
	<u>Livelihood Activities for Assetless Person</u> -													
III	<u>9%</u>	-			1%	0.88500	3%	2.65500	5%	4.42500			9%	7.96500
	i) Vegetable cultivation	unit			5	0.50000	12	1.20000	15	1.50000			32	3.20000
	ii) Tailoring	unit			0	0	2	0.20000	6	0.60000			8	0.80000
	iii) Carpentry	unit			0	0	5	0.25000	6	0.32500			11	0.57500
	iv) Vermi composting	unit			2	0.22500	1	0.12500		0			3	0.35000
	v) Piggery unit	unit			2	0.16000	11	0.88000	25	2.00000			38	3.04000
	Total of III		0	0	26	0.88500	54	2.65500	89	4.42500	0	0	169	7.96500

IV	Production System & Micro Enterprises - 10%	_		1%	0.88500	3%	2.65500	6%	5.31000		10%	8.85000
	i) Power tiller	unit						1	2.00000		1	2.00000
	ii)Poultry	unit			0	4	1.20000	1	0.30000		5	1.50000
	iii)Rubber nursery	unit		1	0.88500	1	1.45500	1	1.51000		3	3.85000
	(iv) Integrated farming	unit						1	1.50000		1	1.50000
	Total of IV		0		0.88500		2.65500		5.31000	0		8.85000

1	2	3	4	5	6	7	8	9	10	11	12	13	14
V	Consolidation & withdrawal Phase - 3%									3%	2.65500	3%	2.65500
	i) Repairing & maintenance of CPR's										2.20500	0	2.20500
	ii)Documentation of successful experience & report preparation										0.45000	0	0.45000
	Total of V		0		0		0		0		2.65500		2.65500
	Grand Total												
	(6%	5.31000	14%	12.39000	50%	44.25000	27%	23.89500	3%	2.65500	100%	88.50000

ACTION PLAN OF SOKCHON MICRO WATRSHED (IWMP) UNDER TERRITORIAL DIVISION, TURA.

Name of District : West Garo Hills

No. of villages Covered :

Name of C. & R. D. Block : Gambegre Project Area : 500 Ha

Name of Project: WGH-IWMP-XIII Total Project Cost 75.00 Lakh

(Figures in lakh)

2

nos

1	2		3	4	5	6	7	8	9	10	11	12	13	14
SI.			l st	Yr. (6%)	II nd `	Yr. (14%)	III rd	Yr. (50%)	IV th Y	′r. (25%)	V th	Yr. (5%)	To	tal 100%
No.	Activities		Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.
ı	Management Cost :	-												
Α	Administrative Cost: 10 %				2%	1.50000	5%	3.75000	3%	2.25000	-	-	10%	7.50000
	i) Honorarium of 1 WDT Member	month			6	0.60000	12	1.20000	12	1.20000			30	3.00000
	ii)Honorarium of WC Chairman	month			5	0.02500	6	0.03000	6	0.03000			17	0.08500
	iii) Honorarium of WCM	month			4	0.06400	6	0.09600	5	0.08000			15	0.24000
	iv) TA for WDT members	month			6	0.30000	12	0.60000	12	0.60000			30	1.50000
	v)Office expenses					0.51100		1.82400		0.34000			0	2.67500
	Total Of 'A'			0.00		1.50000		3.75000		2.25000		0.00		7.50000
	Preparatory Phase :													
В	Entry Point Activities ; 4 %		4%	3.00000									4%	3.00000
	i)Spring chamber @ Rs. 75000/-	nos	4	3.00000									4	3.00000
	Total of 'B'			3.00000		0.00		0.00		0.00		0.00		3.00000

1	2		3	4	5	6	7	8	9	10	11	12	13	14
C.	Institution & Capacity Building ; 5 %		1%	0.75000	2%	1.50000	1%	0.75000	1%	0.75000			5%	3.75000
	i) Awareness Campaign	nos	5	0.75000	0	0	1	0.15000	1	0.15000			7	1.05000
	ii) Exposure visits off-campus	nos		0		0		0		0			0	0.00000
	iii)Capacity Building of SHGs/Ugs/farmers	nos		0	4	0.80000	2	0.40000	2	0.40000			8	1.60000
	iv) Capacity Building of WC members	nos		0	3	0.60000	1	0.20000	1	0.20000			5	1.00000
	v) Capacity Building of WDT/W Volunteer	nos			1	0.10000	0	0.00000		0.00000			1	0.10000
	Total of 'C'		5	0.75000	8	1.50000	4	0.75000	4	0.75000	0	0	21	3.75000
D.	Detail Project Report (DPR) - 1%		1%	0.75000									1%	0.75000
	i) Cost of Resources Inventories works												0	0.00000
	ii) Cost of PRA			0.20000									0	0.20000
	iii) Cost of Land use survey			0.20000									0	0.20000
	iv) Cost of formulating			0.35000									0	0.35000
	Total of 'D'			0.75000		0		0		0		0		0.75000
E.	i) Monitoring - 1%				0.20%	0.15000	0.50%	0.37500	0.30%	0.22500			1%	0.75000
F.	ii) Evaluation - 1%				0.30%	0.22500	0.50%	0.37500	0.20%	0.15000			1%	0.75000
	Total of 'E'			0		0.37500		0.75000		0.37500		0		1.50000
Ш	Watershed Works Phase: 56 %	_			7.50%	5.62500	37%	27.75000	11.50%	8.62500			56%	42.00000
A.	Arable Land Treatment:													
	i) Terracing	На			2.5	0.50000	10	2.00000	2.5	0.50000			15	3.00000
	ii) Improvement of existing paddy field	На			0	0	20	1.00000	2.72	0.13600			22.72	1.13600
	Total of 'A'		0	0	2.5	0.50000	30	3.00000	5.22	0.63600	0	0	37.7	4.13600
В.	Non-Arable Land Treatment :													
	i)Improvement of degraded forest	На					63.5	2.28600					63.5	2.28600
	ii)Rubber Plantation	На					63	9.45000	6.5	0.97500			69.5	10.42500
	Total of 'B'		0	0	0	0	127	11.73600		0.97500	0	0	133	12.71100

1	2		3	4	5	6	7	8	9	10	11	12	13	14
C.	Drainage Line Treatment :													
	i) C.C. Irrigation Dam	nos			1	5.00000	0	0	1	5.01400			2	10.01400
	ii) Water harvesting structure	nos			0	0	1	4.51000					1	4.51000
	iii) Dug out Pond	nos			0	0	3	3.00000	1	1.00000			4	4.00000
	iv) Protection Wall	nos			0	0	5	5.00000	1	1.00000			6	6.00000
	v) Earthen Irrigation Channel	nos			1	0.12500	1	0.50400					2	0.62900
	Total of 'C'			0		5.12500		13.01400		7.01400		0		25.15300
	Total of II(A to C)	На	0	0	2.5	5.62500	157	27.75000	5.22	8.62500	0	0	171	42.00000
Ш	Livelihood Activities for Assetless Person - 9%	_			1%	0.75000	3%	2.25000	5%	3.75000			9%	6.75000
	i) Vegetable cultivation	unit			6	0.65000	9	0.90000	15	1.50000			30	3.05000
	ii) Tailoring	unit			1	0.10000	2	0.20000	4	0.40000			7	0.70000
	iii) Carpentry	unit			0	0	4	0.20000	5	0.25000			9	0.45000
	iv) Vermi composting	unit			0	0	1	0.15000		0			1	0.15000
	v) Piggery unit	unit			0	0	10	0.80000	20	1.60000			30	2.40000
	Total of III		0	0	26	0.75000	54	2.25000	89	3.75000	0	0	169	6.75000

IV	Production System & Micro Enterprises - 10%	_		1%	0.75000	3%	2.25000	6%	4.50000		10%	7.50000
	i) Power tiller	unit						0	0		0	0
	ii)Poultry	unit		1	0.30000	1	0.30000	1	0.30000		3	0.90000
	iii)Rubber nursery	unit		1	0.45000	1	1.95000	1	2.70000		3	5.10000
	(iv) Integrated farming	unit						1	1.50000		1	1.50000
	Total of IV		0		0.75000		2.25000		4.50000	0		7.50000

1	2	3	4	5	6	7	8	9	10	11	12	13	14
V	Consolidation & withdrawal Phase - 3%									3%	2.25000	3%	2.25000
	i) Repairing & maintenance of CPR's										1.80000	0	1.80000
	ii)Documentation of successful experience &												
	report preparation										0.45000	0	0.45000
	Total of V		0		0		0		0		2.25000		2.25000
	Grand Total												
	(I + I I + III + I V + V)	6%	4.50000	14%	10.50000	50%	37.50000	27%	20.25000	3%	2.25000	100%	75.00000

ACTION PLAN OF WADRO MICRO WATRSHED (IWMP) UNDER TERRITORIAL DIVISION, TURA.

Name of District : West Garo Hills

No. of villages Covered :

Name of C. & R. D. Block : Gambegre Project Area : 500 Ha

Name of Project: WGH-IWMP-XIII Total Project Cost 75.00 Lakh

(Figures in lakh)

2 nos

1	2		3	4	5	6	7	8	9	10	11	12	13	14
SI.			l st	Yr. (6%)	II nd	Yr. (14%)	III rd `	Yr. (50%)	IV th \	/r. (25%)	V th	Yr. (5%)	To	tal 100%
No			Phy		_	_	_		_	_	Phy	_		_
•	Activities		•	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	•	Fin.	Phy.	Fin.
ı	Management Cost :	_												
Α	Administrative Cost: 10 %				2%	1.50000	5%	3.75000	3%	2.25000	-	-	10%	7.50000
		mont												
	i) Honorarium of 1 WDT Member	h			6	0.60000	12	1.20000	12	1.20000			30	3.00000
	"NI CANCOL :	mont			_	0.02500	6	0.00000		0.00000			47	0.00500
	ii)Honorarium of WC Chairman	h mont			5	0.02500	6	0.03000	6	0.03000			17	0.08500
	iii) Honorarium of WCM	mont h			4	0.06400	6	0.09600	5	0.08000			15	0.24000
	in richardinal of welvi	mont			7	0.00400	O	0.05000		0.00000			13	0.24000
	iv) TA for WDT members	h			6	0.30000	12	0.60000	12	0.60000			30	1.50000
	v)Office expenses					0.51100		1.82400		0.34000			0	2.67500
	Total Of 'A'			0.00		1.50000		3.75000		2.25000		0.00	_	7.50000
				0.00		1.50000		3.73000		2.23000		0.00		7.30000
	Preparatory Phase :			2 0000										
В	Entry Point Activities ; 4 %		4%	3.0000 0									4%	3.00000
	Liftly Foliit Activities , 4 70		4/0	3.0000									4/0	3.00000
	i)Spring chamber @ Rs. 75000/-	nos	4	0									4	3.00000
	, , ,			3.0000										
	Total of 'B'			0		0.00		0.00		0.00		0.00		3.00000

1	2		3	4	5	6	7	8	9	10	11	12	13	14
c.	Institution & Capacity Building ; 5 %		1%	0.7500	2%	1.50000	1%	0.75000	1%	0.75000			5%	3.75000
İ	i) Awareness Campaign	nos	5	0.7500 0	0	0	1	0.15000	1	0.15000			7	1.05000
	ii) Exposure visits off-campus	nos		0		0	_	0	_	0			0	0.00000
	iii)Capacity Building of SHGs/Ugs/farmers	nos		0	4	0.80000	2	0.40000	2	0.40000			8	1.60000
	iv) Capacity Building of WC members	nos		0	3	0.60000	1	0.20000	1	0.20000			5	1.00000
	v) Capacity Building of WDT/W Volunteer	nos			1	0.10000	0	0.00000		0.00000			1	0.10000
	, , , , , , , , , , , , , , , , , , , ,			0.7500										
	Total of 'C'		5	0	8	1.50000	4	0.75000	4	0.75000	0	0	21	3.75000
D.	Detail Project Report (DPR) - 1%		1%	0.7500 0									1%	0.75000
D.	i) Cost of Resources Inventories works		1%	U									0	0.00000
	i) Cost of Resources inventories works			0.2000										0.00000
	ii) Cost of PRA			0									0	0.20000
				0.2000									_	
	iii) Cost of Land use survey			0 0.3500									0	0.20000
	iv) Cost of formulating			0.3300									0	0.35000
				0.7500										
	Total of 'D'			0		0		0		0		0		0.75000
-	i) Monitoring - 1%				0.20 %	0.15000	0.50 %	0.37500	0.30%	0.22500			1%	0.75000
E.	i) Wontoring - 1%				76	0.15000	70	0.37500	0.30%	0.22500			1%	0.75000
					0.30		0.50							
F.	ii) Evaluation - 1%				%	0.22500	%	0.37500	0.20%	0.15000			1%	0.75000
	Total of 'E'			0		0.37500		0.75000		0.37500		0		1.50000
					7.50			27.7500	11.50					42.0000
II	Watershed Works Phase: 56 %	-			%	5.62500	37%	0	%	8.62500			56%	0
A.	Arable Land Treatment:													
	i) Terracing -	На			2.5	0.50000	10	2.00000	2.5	0.50000			15 22.7	3.00000
	ii) Improvement of existing paddy field	На			0	0	20	1.00000	2.72	0.13600			22.7	1.13600
	Total of 'A'	. Iu	0	0	2.5	0.50000	30	3.00000	5.22	0.63600	0	0	37.7	4.13600

В.	Non-Arable Land Treatment : i)Improvement of degraded forest -	На					63.5	2.28600					63.5	2.28600 10.4400
	ii)Rubber Plantation -	Ha					63	9.45000	6.6	0.99000			69.6	0
								11.7360					133.	12.7260
	Total of 'B'		0	0	0	0	127	0	6.6	0.99000	0	0	1	0

63.0667

0.00000

1	2		3	4	5	6	7	8	9	10	11	12	13	14
C.	Drainage Line Treatment :													
	i) C.C. Irrigation Dam	nos			1	5.00000	0	0	1	4.99900			2	9.99900
	ii) Water harvesting structure	nos			0	0	1	4.51000					1	4.51000
	iii) Dug out Pond	nos			0	0	3	3.00000	1	1.00000			4	4.00000
	iv) Protection Wall	nos			0	0	5	5.00000	1	1.00000			6	6.00000
	v) Earthen Irrigation Channel	nos			1	0.12500	1	0.50400					2	0.62900
								13.0140						25.1380
	Total of 'C'			0		5.12500		0		6.99900		0		0
								27.7500					170.	42.0000
	Total of II(A to C)	Ha	0	0	2.5	5.62500	157	0	11.82	8.62500	0	0	8	0
Ш	<u>Livelihood Activities for Assetless Person - 9%</u>	-			1%	0.75000	3%	2.25000	5%	3.75000			9%	6.75000
	i) Vegetable cultivation	unit			6	0.60000	9	0.90000	15	1.50000			30	3.00000
	ii) Tailoring	unit			0	0	2	0.20000	4	0.40000			6	0.60000
	iii) Carpentry	unit			0	0	4	0.20000	5	0.25000			9	0.45000
	iv) Vermi composting	unit			1	0.15000	1	0.15000		0			2	0.30000
	v) Piggery unit	unit			0	0	10	0.80000	20	1.60000			30	2.40000
	Total of III		0	0	26	0.75000	54	2.25000	89	3.75000	0	0	169	6.75000

IV	Production System & Micro Enterprises - 10% i) Power tiller ii)Poultry iii)Rubber nursery	unit unit unit unit			1% 1 1	0.75000 0.30000 0.45000	3% 1 1	2.25000 0.30000 1.95000	6% 0 1	4.50000 0 0.30000 2.70000			10% 0 3 3	7.50000 0 0.90000 5.10000
	(iv) Integrated farming	unit							1	1.50000			1	1.50000
	Total of IV			0		0.75000		2.25000		4.50000		0		7.50000
			_											
1	2		3	4	5	6	7	8	9	10	11	12	13	14
v	Consolidation & withdrawal Phase - 3%										3%	2.2500 0 1.8000	3%	2.25000
	i) Repairing & maintenance of CPR'sii)Documentation of successful experience & report preparation											0 0.4500 0	0	1.80000 0.45000
	Total of V			0		0		0		0		2.2500 0		2.25000
	Grand Total (I + I I + III +I V +V)		6%	4.5000 0	14%	10.5000 0	50%	37.5000 0	27%	20.2500 0	3%	2.2500 0	100 %	75.0000 0

ACTION PLAN OF MECHENG MICRO WATRSHED (IWMP) UNDER TERRITORIAL DIVISION, TURA.

Name of District : West Garo HillsNo. of villages Covered :2nosName of C. & R. D. Block : GambegreProject Area :500HaName of Project: WGH-IWMP-XIIITotal Project Cost75.00Lakh

(Figures in lakh)

1	2	3	4	5	6	7	8	9	10	11	12	13	14
SI.		l st	Yr. (6%)	II nd '	Yr. (14%)	III rd `	Yr. (50%)	IV th Y	/r. (25%)	V th	Yr. (5%)	Tot	al 100%
No		Phy								Phy			
.	Activities		Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	.	Fin.	Phy.	Fin.

1	Management Cost :	_												
Α	Administrative Cost: 10 %				2%	1.50000	5%	3.75000	3%	2.25000	-	-	10%	7.50000
		mont												
	i) Honorarium of 1 WDT Member	h			6	0.60000	12	1.20000	12	1.20000			30	3.00000
	ii) Haranari wa af MC Chairman	mont			_	0.03500		0.02000		0.02000			47	0.00500
	ii)Honorarium of WC Chairman	h mont			5	0.02500	6	0.03000	6	0.03000			17	0.08500
	iii) Honorarium of WCM	h			4	0.06400	6	0.09600	5	0.08000			15	0.24000
	,	mont												
	iv) TA for WDT members	h			6	0.30000	12	0.60000	12	0.60000			30	1.50000
	v)Office expenses					0.51100		1.82400		0.34000			0	2.67500
	Total Of 'A'			0.00		1.50000		3.75000		2.25000		0.00		7.50000
	Preparatory Phase :													
				3.0000										
В	Entry Point Activities ; 4 %		4%	0									4%	3.00000
				3.0000									١.,	
	i)Spring chamber	nos	4	0									4	3.00000
				3.0000										
	Total of 'B'			0		0.00		0.00		0.00		0.00		3.00000

1	2		3	4	5	6	7	8	9	10	11	12	13	14
C.	Institution & Capacity Building ; 5 %		1%	0.7500	2%	1.50000	1%	0.75000	1%	0.75000			5%	3.75000
	i) Awareness Campaign	nos	5	0.7500 0	0	0	1	0.15000	1	0.15000			7	1.05000
	ii) Exposure visits off-campus	nos		0		0		0		0			0	0.00000
	iii)Capacity Building of SHGs/Ugs/farmers	nos		0	4	0.80000	2	0.40000	2	0.40000			8	1.60000
	iv) Capacity Building of WC members	nos		0	3	0.60000	1	0.20000	1	0.20000			5	1.00000
	v) Capacity Building of WDT/W Volunteer	nos			1	0.10000	0	0.00000		0.00000			1	0.10000
				0.7500										
	Total of 'C'		5	0	8	1.50000	4	0.75000	4	0.75000	0	0	21	3.75000
D.	Detail Project Report (DPR) - 1%		1%	0.7500 0									1%	0.75000
5.	i) Cost of Resources Inventories works		170										0	0.00000
	Ty Cost of Nesources inventories works			0.2000										0.0000
	ii) Cost of PRA			0									0	0.20000
	:::\ Ctflad			0.2000										0.20000
	iii) Cost of Land use survey			0 0.3500									0	0.20000
	iv) Cost of formulating			0									0	0.35000
				0.7500										
	Total of 'D'			0		0		0		0		0		0.75000
E.	i) Monitoring - 1%				0.20 %	0.15000	0.50 %	0.37500	0.30%	0.22500			1%	0.75000
L.	i) Wontoning - 1%				/6	0.13000	/6	0.37300	0.30%	0.22300			1/0	0.75000
					0.30		0.50							
F.	ii) Evaluation - 1%				%	0.22500	%	0.37500	0.20%	0.15000			1%	0.75000
	Total of 'E'			0		0.37500		0.75000		0.37500		0		1.50000
					7.50			27.7500	11.50					42.0000
II	Watershed Works Phase: 56 %	-			%	5.62500	37%	0	%	8.62500			56%	0
A.	Arable Land Treatment:												42.5	
	i) Terracing -	Ha			2.50	0.50000	10.00	2.00000					12.5 0	2.50000
	i i remacing -	i ia			2.30	0.30000	10.00	2.00000					32.7	2.30000
	ii) Improvement of existing paddy field	На			0	0	20.00	1.00000	12.72	0.63600			2	1.63600

		Total of 'A'		0	0	2.5	0.50000	30	3.00000	12.72	0.63600	0	0	45.2	4.13600
В	3.	Non-Arable Land Treatment :													
														63.5	
		i)Improvement of degraded forest -	На					63.5	2.28600					0	2.28600
															10.4250
		ii)Rubber Plantation -	Ha					63	9.45000	6.50	0.97500			69.5	0
									11.7360					133.	12.7110
		Total of 'B'		0	0	0	0	127	0	6.5	0.97500	0	0	0	0

1	2		3	4	5	6	7	8	9	10	11	12	13	14
C.	Drainage Line Treatment :													
														10.0140
	i) C.C. Irrigation Dam	nos			1	5.00000	0	0	1	5.01400			2	0
	ii) Water harvesting structure	nos			0	0	1	4.51000					1	4.51000
	iii) Dug out Pond	nos			0	0	3	3.00000	1	1.00000			4	4.00000
	iv) Protection Wall	nos			0	0	5	5.00000	1	1.00000			6	6.00000
	v) Earthen Irrigation Channel	nos			1	0.12500	1	0.50400					2	0.62900
								13.0140						25.1530
	Total of 'C'			0		5.12500		0		7.01400		0		0
								27.7500					178.	42.0000
	Total of II (A to C)	Ha	0	0	2.5	5.62500	157	0	19.22	8.62500	0	0	2	0
Ш	<u>Livelihood Activities for Assetless Person - 9%</u>	-			1%	0.75000	3%	2.25000	5%	3.75000			9%	6.75000
	i) Vegetable cultivation	unit			6	0.60000	9	0.90000	15	1.50000			30	3.00000
	ii) Tailoring	unit			0	0	2	0.20000	4	0.40000			6	0.60000
	iii) Carpentry	unit			0	0	4	0.20000	5	0.25000			9	0.45000
	iv) Vermi composting	unit			1	0.15000	1	0.15000		0			2	0.30000
	v) Piggery unit	unit			0	0	10	0.80000	20	1.60000			30	2.40000
	Total of III		0	0	26	0.75000	54	2.25000	89	3.75000	0	0	169	6.75000

IV	Production System & Micro Enterprises - 10%	_			1%	0.75000	3%	2.25000	6%	4.50000			10%	7.50000
	i) Power tiller	unit							0	0			0	0
	ii)Poultry	unit			1	0.30000	1	0.30000	1	0.30000			3	0.90000
	iii)Rubber nursery	unit			1	0.45000	1	1.95000	1	2.70000			3	5.10000
	(iv) Integrated farming	unit							1	1.50000			1	1.50000
	Total of IV			0		0.75000		2.25000		4.50000		0		7.50000
1	2		3	4	5	6	7	8	9	10	11	12	13	14
												2.2500		
V	Consolidation & withdrawal Phase - 3%										3%	0	3%	2.25000
	i) Repairing & maintenance of CPR's											1.8000 0	0	1.80000
	ii)Documentation of successful experience &											0.4500		
	report preparation											0	0	0.45000
										_		2.2500		
	Total of V			0		0		0		0		0		2.25000
	Grand Total													
				4.5000		10.5000		37.5000		20.2500		2.2500	100	75.0000
	(I + I I + III + I V + V)		6%	0	14%	0	50%	0	27%	0	3%	0	%	0

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

1	2	3	4	5	(5	7	8	9			10				11		
					Produra dura (dd/i yy	ntion mm/			Names of Micro	,	Area (ha)	of the proj	ects			rea detail g within th	ls (ha) ne projects)	
Sl. No	Name of State	Name of Distri cts	Names of Project s	Year of sanc tion	Fro m	То	Area of the project s	Projec t cost (Rs. In lakh)	watersheds & Code nos. (as per DoLR's unique codification)	ıted rainfed area	ted irrigated area		tivated eland	. Land	Forest land	unity land	Others (pl. specify) Horticul	Total area
										Cultivated area	Cultivated are	a) Tempor ary fallow	b) Per manent	Agri.	Fore	Сотт	ture & Build up Area	(ha)
1	Meghalaya	West Garo Hills	W.G.H IWMP- XIII		2012	2017	2090	31350 000	i. Sikkli w/s ii. Mecheng w/s iii. Wadro w/s iv. Sokchon w/s	3486	-	801	-	234.7	1119.6 1	343.18	392.43	2090

Fund provision for the IWMP projects from all sources:

1	2	3	3					4						5
						Funds fr	om other s	ources ir	n addition t	o IWMP	funds			
District	Name of Projects	IWMP	Fund	Converg fund		P .	PP	Com	munity		ıtional ınce		ers (Pl. ecify)	Total
		Central Share	State Share	Name of Scheme	Amount (Lakhs)	Name of private sector	Financial contribution	Name	Financial contribution	Name	Financial contri-bution	Name	Financial contribution	(lks)
Meghalaya	W.G.H IWMP-XIII	282.15	31.35	MNREGS	40.0	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	353.5

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

1	2	3	4		5					6		
				Distt. Age	ency's Proj	ect Accoun	t details	Wa	itershed Comn	nittee (WC) account de	tails:
Sl. No.	Names of States	Name of Distric ts	Names of Project s	Name of the Bank and Branch where project account has been opened	Account Number (to be obtaine d confide n-tially)	Account type (Savings / Current/ Others)	Name & Designati on of authorize d persons who operate the account.	Name of Watershe d Committe e	Name of the Bank and Branch where project account has been opened	Account number (to be obtaine d confide n-tially	Account type (Savings/ current others)	Name & Designatio n of authorized persons who operate the account.

1	Megha laya W		W.G.H IWMP- XIII	Axis Bank Hawakhana & State Bank Of India.	Under progress	Savings	Chairman W.C Secretary W.C Project Leader/ WDT	Sikkli Wadro Mecheng Sokchon	Axis Bank Hawakhana & State Bank Of India.	Under progress	Savings	Chairman W.C Secretary W.C Project Leader/WD
---	-----------------	--	------------------------	--	-------------------	---------	--	---------------------------------------	--	-------------------	---------	---

Public-Private Partnership in the IWMP projects: NIL

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

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

CHAPTER VI CAPACITY BUILDING

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 N o	Sta te	Name of the Traini ng Instit ute	Full Address with contact no., website & e-mail	Name & Designati on of the Head of Institute	Type of Institute	Area(s) of specialization ^{\$}	Accreditation details	Refe r- ence Year	No. of trainin gs assign ed	No. of train ees to be train ed	No. of trainin gs conduc ted	No. of trainee s trained
1		NIRD (NER)	Guwaha ti	Director	Central Govt.	Remote Sensing, Rural Devt.	NA					
2		SIRD	Nongsde r	Director	State Govt.	Capacity Building	NA					
3	Meghalaya	RRT C	Umran	Director	Don- Bosco	Agri-Horti, Animal Husbandry, Entrepreneurshi p	NA					
4		ICAR	Umiam	Director	Central Govt.	Do	NA					
5		VTC	Kyrdem Kulai	Director	State Govt.	Animal Husbandry	NA					
6		Fruit Garde n	Shillong	Director	State Govt.	Agri-Horti, Fruit Processing	NA					

- From Column no. 2, total no. of States implementing the programme, from Column no. 3, no. of training institutes, from column No. 9, total no. of category-wise trainings and trainees may be given at the end of the table for the entire country
- # Central govt. Dept./ State govt. Dept./ Autonomous Body/ Research Institutes/ Universities/ Others (pl. specify)
- \$ Capacity Building/ Agriculture/ Horticulture/ Animal Husbandry/ Pisciculture/ Remote Sensing/ Water conservation/ Ground water/ Forestry/ livelihoods/ entrepreneurship development/ others (pl. specify)
- [®] 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 $\underline{2012-13}$ as on $\underline{31/03/2012}$ (dd/mm/yyyy)*

1	2	3	4	5		6		7
	Total	No. of	No. of persons to be	No. of persons trained	fund	rces of ing for ining	Funds utilized (Lakhs)	
Project Stakeholders	no. persons of trained persons so far		trained during current financial year		a) DoLR	b) Any other (Pl. specify)	a) DoLR	b) Any other (Pl. specify)
PIAs	10	NIL	10	NIL				
WDTs	4	NIL	4	NIL				
Ugs	40	NIL	40	NIL			_	
SHGs	50	NIL	50	NIL				
WCs	10	NIL	10	NIL	100%	NIL		
GPs	NIL	NIL	NIL	NIL				
Community	218	NIL	109	NIL				
Others Pl. specify)								
TOTAL	232	0	223	0	100%	0	-	-

Table 6.3: Information, Education & Communication (IEC) activities for the year $\underline{12\text{-}13}$ as on $\underline{31/03/13}$ (dd/mm/yyy)*

	1	2	3	4	5
	Activity	Executing agency	Estimated expenditure (Rs.)	Expenditure incurred (Rs.)	Outcome (may quantity, wherever possible)
1.	Pamplets & banners	S&WC(T) Division.	15.675	-	a) Betterunderstanding ofProject Concept.b) Preview of Projectachievement.

CHAPTER VII EXPECTED OUTCOME

CHAPTER VII EXPECTED OUTCOME

Table 7.1 Employment related outcomes:

Sl No						1			2							
	Name of	v age employment								Self employme			ment			
	Project		No. of mandays				No	of benefi	ciaries			No	iciaries			
		SC	ST	Others	Women	Total	SC	ST	Others	Women	Total	SC	ST	Others	Women	Total
1.	WGH IWMP - XIII	-	5794632	-	3863088	965772	-	1143	-	762	1905	1	-	-	-	-

Table 7.2 Migration Details:

1	2	3	4	5	6	7	8	9	1	.0
Names of the Districts	Names of Projects	Name of village	No. of persons migrating	No. of days per year of migration	Major reason(s) for migrating	Distance of destination of migration from the village (km)	Occupation during migration	Income from such occupation (Rs. in lakh)	identify majo	d migration or activities of esponsible (b) Livelihoods
				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 form column no. 11, average income from occupation during migration, for the entire country may be given at the end of the Table.

Table 7.3 Economic benefits accrued to women:

]	1	2	1		3	4
Wa	iges	Train	ning	Liv	elihoods	
Woman days	Amount (Rs. in lakh)	No. of women participants	Amount (Rs. in lakh)	No. of women beneficiaries	Value of assistance provided (Rs. in lakh)	Total (Rs. in lakh)
524264	52.4264	697	6.27	547	11.766	70.4624

^{*} 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:

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	Ве		y details (n milies)	o. of	User Charges (Rs.)
Districts	projects		or CT K	rigiit	right	SC	St	Others	Total	(KS.)
Meghalaya	W.G.H IWMP-XIII	a. Gambegre . b. Chigitchakgre c. Jengchamgre d. Sengminpara e. Somonpara f. Rakwapara	Reserved forest	FW/MFP/T	Unspecified					NIL
			Spring Chamber	Wd	Unspecified					NIL
			Check dam	Wi	Unspecified					NIL
			Nallah Bund	Wi	Unspecified					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 ot	her than indicated above (please specify)

Table 7.5 Water related outcomes:

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
		Open Well	Moderate	Increased	Increased	Increased	Increased
West Garo Hills	W.G.H IWMP-	Bore Well	NA	NA	NA	NA	
Tims	XIII	Other (specific) Spring	Increased	Increased	Increased	Increased	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:

1	2		3			4		5
-13	the t		y of drinkin nonyhs in a		Quality	of drinking	g water	
District	Name of the project	Pre- project	Post- project	Change in availabili tv	Pre- project	Post- project	Change in quality	Comments
West Garo Hills	WGH IWMP- XIII	Insufficient	Sufficient	10-12 Months	Moderate	Improved	Improved	

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

Table 7.5.3 Water Use efficiency:

1	2	3		4		
				Water savings in	cu.m.	
District	Name of the project	Name of major crop	through water saving devices ^{\$}	through water conserving agronomic practices [#]	Any other (pl specify)	Total
	WGH	Paddy	NA	NA	NA	
W.G.H	IWMP-XIII	Maize	NA	NA	NA	

^{*} From column no. 2, total number of States implementing the programme, from column no. 3, total no. of Districts; from column no. 4, total no. of projects, from column no. 6, practice-wise totals may be mentioned at the end of the table for the entire country.

[§] Sprinkler, Drip, PVC pipe, etc.

[#] Vermi-compost, organic manuring, Mulching, Check basin, Alternate furrow, Ridges & furrow & other scientific practices.

Table 7.6: Vegetation/ crop related outcomes:

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

1	2	3				4						5						6		
					Pre-j	projec	t				Mi	d-term	1				P	ost-pro	oject	
Names of the Districts	Name of Projects	Name of crops	Ar (h	rea a)	Yie	rage eld) per a.	Proc	otal luction Qtl)	Ar (h	rea a)	Yi pei	rage eld r ha (tl)	Prod	otal uction (tl)	Ar (h		Yie per	rage eld ha etl)		roduction Qtl)
			Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.
		Paddy	-	142 .97	-	12	-	1715. 64	-	62. 1	-	15	-	931.5	200	38	16	15	3200	570
		Maize	-	40	-	26	-	1040	-	33	-	24	-	792		33		24	-	792
W.G.H	WGH	Vegetable	-	7	-	30	-	210	-	5	-	30	-	150	6	4	36	30	216	150
	IWMP- XIII																			
		Total	-	189 .97	-	68	-	2965. 64	-	100 .1	1	69	-	1873. 5	206	75	52	69	3416	1512

Irri. – Irrigated Rf – Rainfed

^{*} 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.

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

1	2	3	4	5			6							7						8		
							Pre-pi	oject					Mid	-term					Post-p	rojec	t	
SI N o.	Names of States	Names of the Districts	Name of Projec ts	Name of crops	Ar (h		1		Prod	tal lucti n (tl)		rea ıa)	Aver Yic per (Q	eld ha	Produ	otal action otl)	Ar (h		Aver Yie per (Q	eld ha	To Produ (Q	ıction
					Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.
	Meghalaya	West Garo	WGH IWMP	Paddy	-	-	-	-	-	-	-	136. 6	-	15	-	204. 9	197	-	15	-	2955	-
		Hills	XIII	Vegetable	-	-	-	-	-	-	-	8	-	36	-	288	6	-	36	-	216	-
				Total	-	-	-	-	-	-	-	142. 6	-	51	-	492. 9	203	-	51	-	3171	-

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

Irri. – Irrigated Rf – Rainfed

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

1	2	3	4	5			6						7	7					8	3		
							Pre-pi	oject					Mid-	term]	Post-p	rojec	t	
Sl No	Names of States	Names of the Districts	Name of Project s	Name of crops	Ar (h	rea a)	Ave Yie (Qtl)	eld per	Proc	tal lucti n tl)	Ar (h	rea a)	Aver Yie per (Q	eld ha	Tot Produ n (Qt	ıctio	Arc (ha		Aver Yie per (Q	eld ha	To Produ (Q	ıction
					Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.	Irri	Rf.
	Meghalaya	West	WGH		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Garo	IWMP		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Hills	XIII		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Irri. – Irrigated Rf – Rainfed

^{*} 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.

Table 7.6.4 Increase/ Decrease in area under fodder:

1	2	3		4			5	
			Existing	area under fod	der (ha)		Achievement (ha)	
District	Name of project	Duration of Project	Source/Name of report	Year of reference	Area already under fodder	Area under fodder proposed to be covered through IWMP	Area under fodder actually covered through IWMP	Change in area under fodder
W.G.H	W.G.H IWMP-XIII	5 yrs	-	-	-	-	-	-

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

Table 7.6.5 Increase/ Decrease in Forest/vegetation cover:

1	2	3		4			5	
			Existi	ng area tree c	over (ha)		Achievement (ha)	
District	Name of project	Duration of Project	Source/Name of report	Source/Name Year of		Forest/vegetative cover area proposed to be covered under IWMP	Forest/vegetative cover area actually covered under IWMP	Change in forest/vegetative cover area
W.G.H	W.G.H IWMP- XIII	5 yrs	NESAC LULC	2006-07	2016	254	-	254

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

Table 7.6.6 Increase/ Decrease in area under horticulture:

1	2	3		4			5		
			Existing an	rea under horticu	lture (ha)		Achievement (ha)		
District	Name of project	Duration of Project	Source/Name of report	Year of reference	Area already under horticulture	Area under horticulture proposed to be covered through IWMP	Area under horticulture actually covered through IWMP	Change in area under horticulture	
W.G.H	W.G.H IWMP-XIII	5 yrs	NESAC LULC	2006-07	1238	284.9	-	284.9	

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

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

1	2	3		4		5				
			Existing area under fodder (ha)			A	chievement (ha)			
District	Name of project	Duration of Project	Source/Name of report	Year of reference	Area already under fuel- wood	Area under fuel- wood proposed to be covered under IWMP	Area under fuel- wood actually covered under IWMP	Change in area under fuel-wood		
W.G.H	W.G.H IWMP-XIII	5 yrs	-	-	-	-	-	-		

^{*} 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:

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			
Names of the	Name of	Type of Animal		Pre-proje	ect	Mid-term				Post-proje	ect	Domontra	
Districts	Projects	Type of Animal	No.	Yield	Income	No.	Yield	Income	No.	Yield	Income	Remarks	
	W. G W												
West Garo Hills	W.G.H	Piggery	225	800kg	250000	560	1000kg	560000	650	1300kg	650000	Increased	
	IWMP- XIII	Poultry	1800	1000kg	120000	2500	1800kg	250000	4000	2500kg	1450000	Increased	
	AIII												
Total													

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

Table 7.7.2 Details of other livelihoods created for landless people

1	2	3	4		5			6			7			8				
ıt .	+	Name	Fund require	Sou	rces of f	unding (I	Rs.)	Actual	No. of beneficiaries to be trained				o be	No. of beneficiaries taking up activity				
District	Project	of activity	d for the activity (Rs.)	Projec t Fund	Benef i -ciary	Others (pl. specify	Total	Expenditu re incurred on activity (Rs.)	SC	ST	Oth ers	Wo me n	Tota l	SC	ST	Oth ers	Wom en	Tota l
West	WGH	Vegitable cultivation	12.425	12.25	497	-	12.25	-	-	497	-	-	497	-	-	-	-	-
Garo	IWM	Tailoring	2.7	2.7	120	-	2.7	-	-	120	-	-	120	-	-	-	-	-
Hills	D	Carpentry	1.850	1.925	370	-	1.925	-	-	370	-	-	370	-	-	-	-	-
	XIII	Vermi compostin g	1.0	1.0	67	1	1.0	1	1	67	1	ı	67	-	1	1	1	-
		Piggery	10.24	10.24	128	1	10.24	-	ı	128	_	-	128	-	-	1	-	-

(Contd.)

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

Table 7.7.3 Details of other livelihoods created for landless people:

	9			11					
	sons employed in the activity	Annual increase in income due to activity	0	Impact of livelil ration eneficiaries)	<u> </u>	of backward- linkages	Any other information		
Total	Grand Total (8+9)	(Rs.)	Pre-project			Post-project	(pl. Specify)		
		1.36	NJL	NIL	NIL	NIL	NIL		

Table 7.7.4 Details of other livelihoods created for farmers:

1	2	3	4		5			6			7		8			
	raniirad		Actual Expenditure					No. of farmers taking up activity								
Distric t	Projec t	Name of activity	for the activity (Rs.) in lakhs	Project Fund	Benefi -ciary	Others (pl. specify)	Total	incurred on activity (Rs.)	SF	MF	LF	Total	SF	MF	LF	Total
		Power tiller	2.0	2.0	1unit	-	2.0	-	ı	ı	1	-	-	ı	ı	-
	were	Poultry	4.2	4.2	14 unit	-	4.2	-	-	-	-	-	-	1	1	-
West Garo	WGH IWMP XIII	Rubber nursery	19.15	19.15	12unit	-	19.15	-	-	-	-	-	-	-	-	-
Hills	Am	Integrated Farming	6.0	6.0	4 unit	-	6.0	-	ı	ı	ı	-	-	ı	ı	-
								-	ı	ı	1	-	-	ı	ı	-
	TOT	AL	31.35	31.35		-	31.35	-	-	-	-	-	-	-	-	-

* 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		-	12		
No. of persons employed indirectly in the activity		ne activity Annual increase in		ration	_	of backward-	Any other information
	Grand Total	income due to activity (Rs.)	(No. of beneficiaries)		forward	linkages	(pl. Specify)
Total	(8+9)	activity (RS.)	Pre-project	Post-project	Pre-project	Post-project	
NIL	NIL	34000	NIL	NIL	NIL	NIL	NIL
NIL	NIL	2,45,679	NIL	NIL	NIL	NIL	NIL
NIL	NIL	2,67,900	NIL	NIL	NIL	NIL	NIL
NIL	NIL						

Table 7.8 Marketing related outcomes: Backward-Forward linkages *

1	2	3	4	5	6
District	Project	Type of Marketing Facility	Pre-project (no.)	During the project (no.)	Post-project (no.)
		(A) Backward linkages	NIL	NIL	NIL
		(i) Seed certification	NIL	NIL	NIL
		(ii) Seed supply system	NIL	NIL	NIL
		(iii) Fertilizer supply system	NIL	NIL	NIL
		(iv) Pesticide supply system	NIL	NIL	NIL
		(v) Credit institutions	1	2	3
		(vi) Water supply	NIL	3	3
		(vii) Extension services	NIL	NIL	NIL
	X	(viii) Nurseries	NIL	NIL	NIL
EII	× .	(ix) Tools/machinery suppliers	NIL	NIL	NIL
0 H	ا ف	(x) Price Support system	NIL	NIL	NIL
jar	IWMP	(xi) Labour	NIL	NIL	NIL
st C		(xii) Any other (please specify)	NIL	NIL	NIL
West Garo Hills	WGH	(A) Forward linkages			
		(i) Harvesting/threshing machinery	NIL	NIL	NIL
		(ii) Storage (including cold storage)	NIL	NIL	NIL
		(iii) Road network	1	1	1
		(iv) Transport facilities	NIL	NIL	NIL
		(v) Markets / Mandis	NIL	NIL	NIL
		(vi) Agro and other Industries	NIL	NIL	NIL
		(vii) Milk and other collection centres	NIL	NIL	NIL
		(viii) Labour	NIL	5	6
		(ix) Any other (please specify)	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; from column no. 6, 7 & 8, category-wise totals may be given at the end of the table for the entire country.

Table 7.9 Abstract of outcomes:

1	2	3	4	5	6	7
Sl. No.	State	Item	Unit	Pre-project Status	Post-project Status	Remarks
		Status of water table		Lack of management	Improved	
		Ground water structures repaired/ rejuvenated	Nil	Nil	nil	
		Quality of drinking water	Nil	Unsafe	Better quality	
		Availability of drinking water	-	10 months in a year	12 months availability	
		Increase in irrigation potential	17 nos.	24% irrigated	94% irrigated	
		Change in cropping/ land use pattern	-	Single cropping	Double Cropping	
		Area under agricultural crop				
		i Area under single crop	На	89%	97%	
		ii Area under double crop	На	Nil	76%	
		iii Area under multiple crop	На	Nil	nil	
		Net increase in crop production area		742	1089	10.5% increase in cropping area
		Increase in area under vegetation		248.87 ha	273.757 ha	13.7% increase in vegetation cover
	ya	Increase in area under horticulture		495.2	751.73	15% increase
	Meghalaya	Increase in area under fuel & fodder		-	-	-
	dg	Increase in milk production		NA	NA	NA
	Ĕ	No. of SHGs		Nil	20	
		Increase in no. of livelihoods	-	1.) Agriculture 2) Horticulture	1. Agriculture. 2. Horticulture. 3. vegetable Cultivation. 4. Piggery. 5. Poultry, etc	
		Increase in income	Rs.	20000-20000	50000-60000	
		Migration	Nos	Nil	nil	
		No. of school going children		20%	89%	
		SHG Federations formed	Nos.	Nil	1	
		Credit linkage with banks	Nos.	Nil	1	
		Resource use agreements	Nos.	None	a.) NOC for development work.b.) Agreements	
		WDF collection & management		None		
		Summary of lessons learnt		Nil	L	1

Table 7.10 Cost effectiveness of structures/ activities*

1	2	3	4	5	6	7	8	9	10
District	Name of project	Name of WC	Name of structure/ activity	Estimated cost (Rs.)	Expected quantifiable benefits (Rs.)	Expenditure incurred (Rs.)	Actual quantifiable benefit (Rs.)	Benefit: Cost ratio [#]	IRR
	WGH IWMP	ii.) Sikkli W/S							
West Garo Hills	XIII	iii.)Mecheng W/S iv) Sokchon W/S	As per work						
			plan	107.026	62.95647	107.026	37.03322	01:01.7	-

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

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

ANNEXURE I MAPS

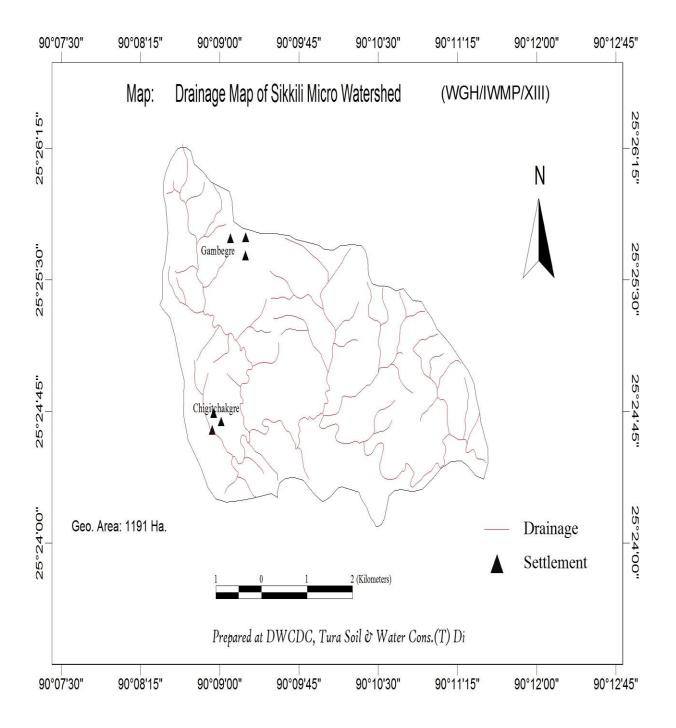
LIST OF MAPS OF W.G.H. IWMP-XIII

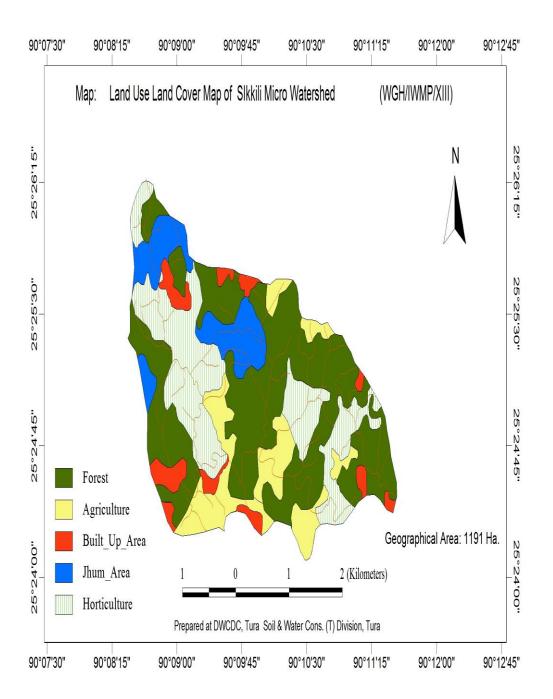
1. Sikkli Micro Water	shed Maps.
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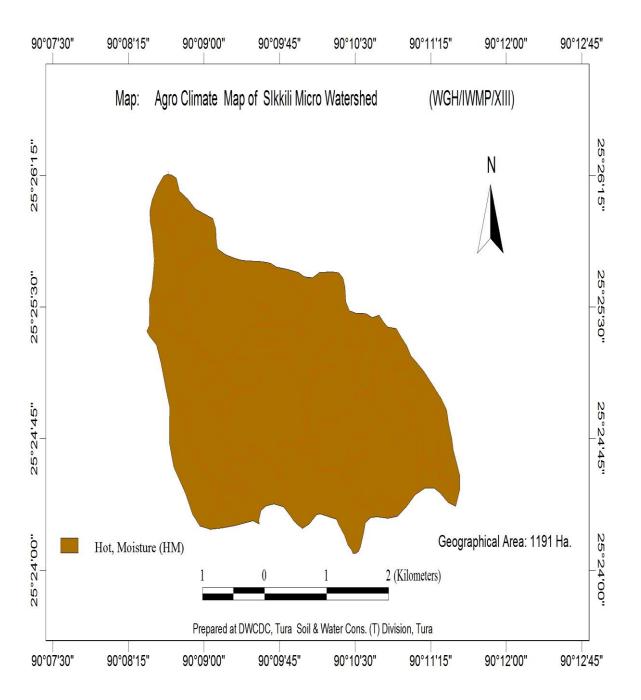
2. Sokchon Micro Watershed Maps.

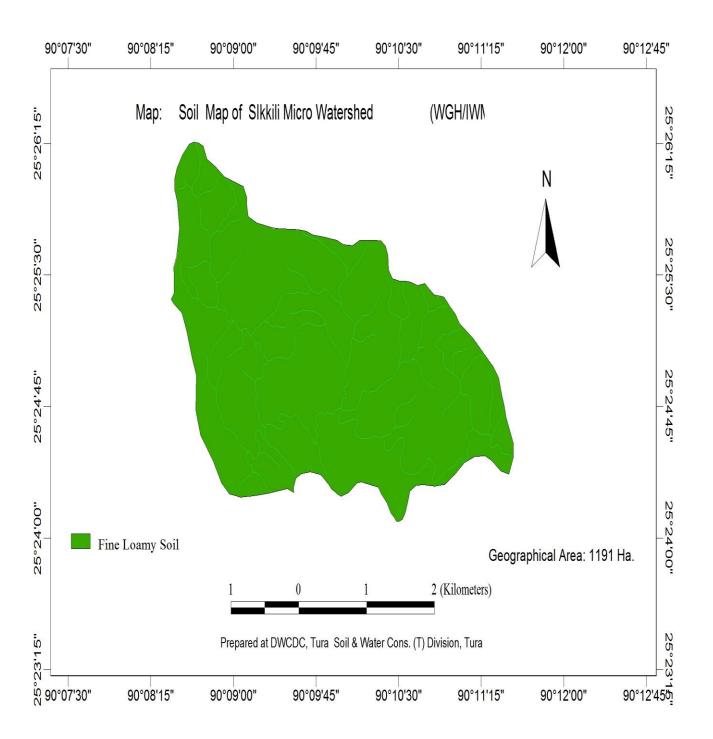
3. Wadro Micro Watershed Maps.

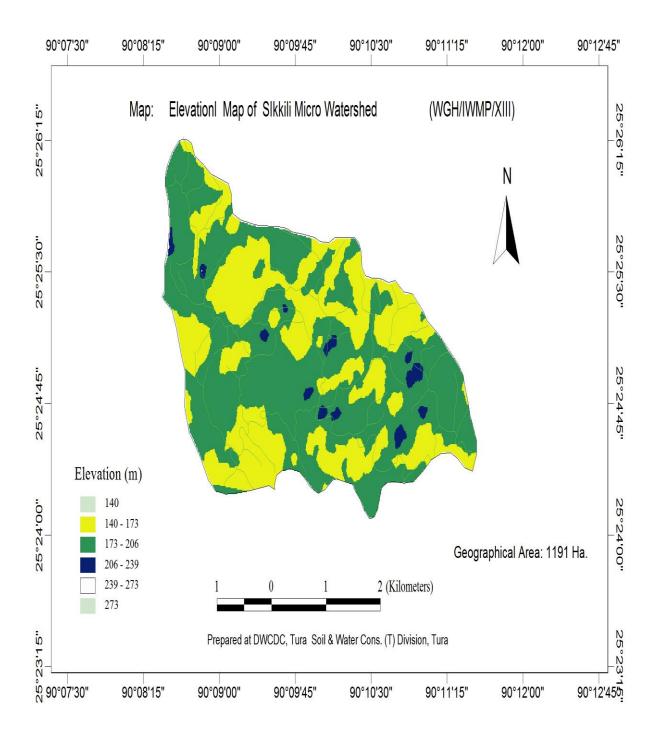
4. Mecheng Micro Watershed Maps.

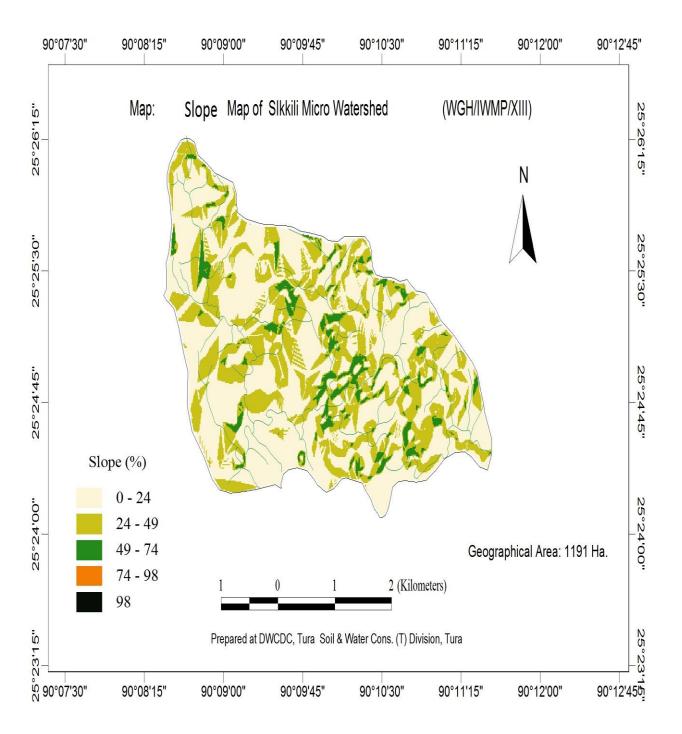


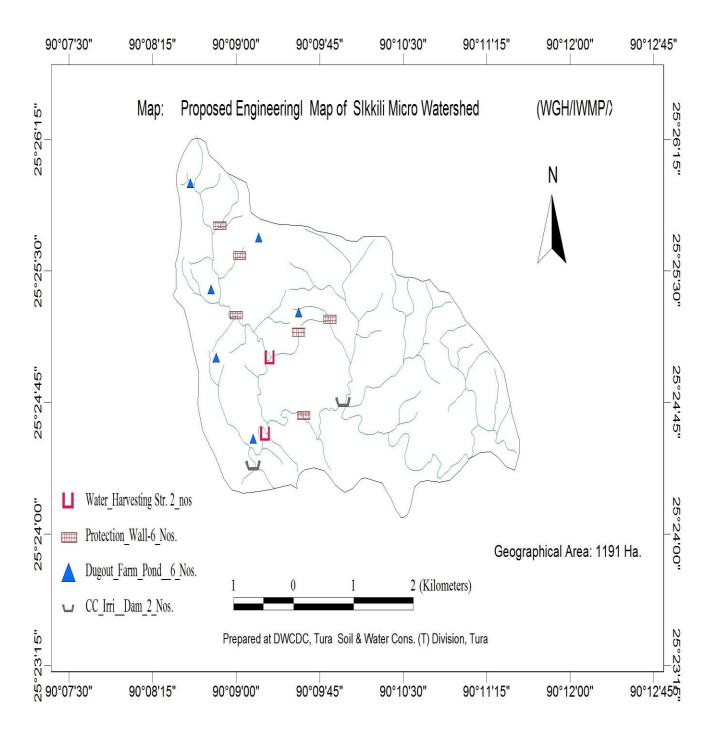


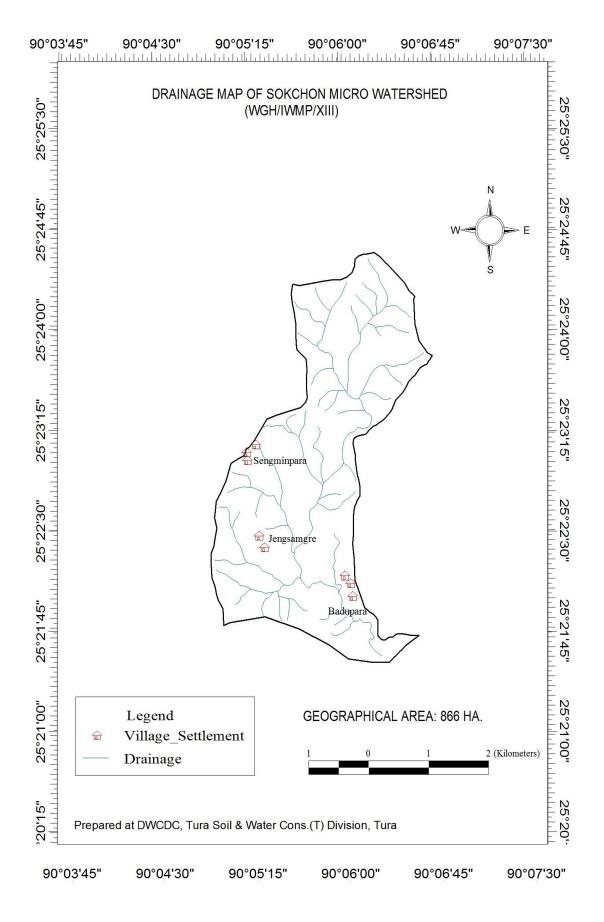


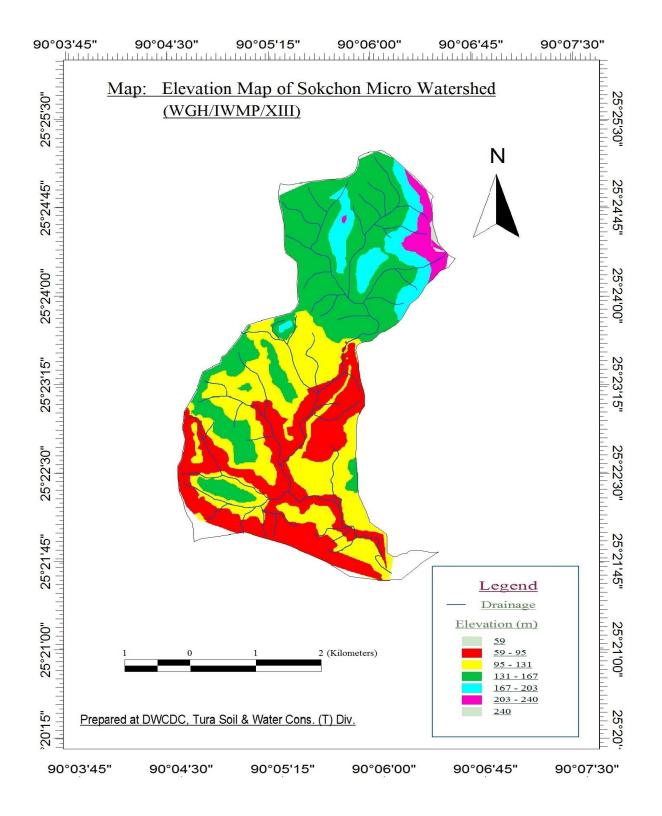


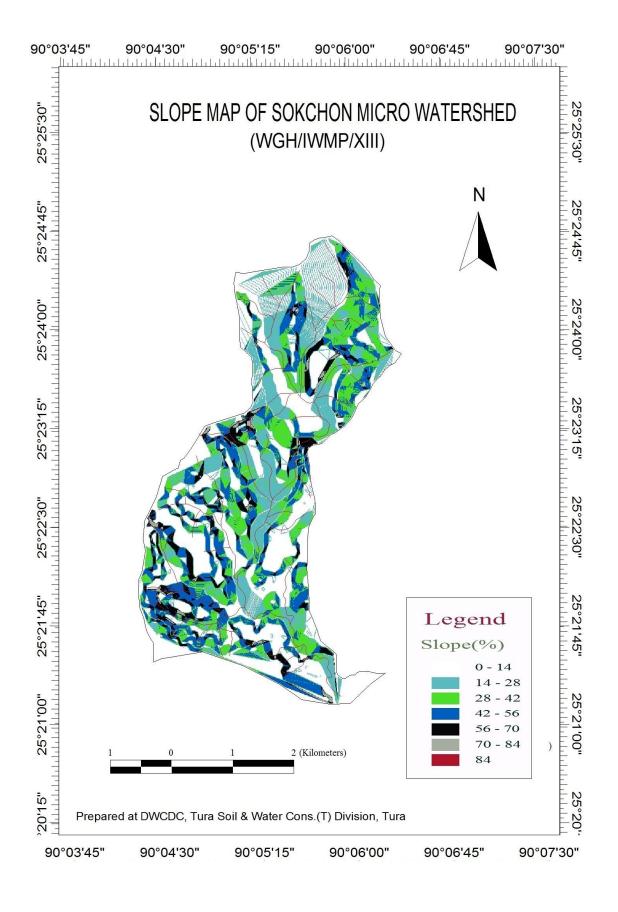


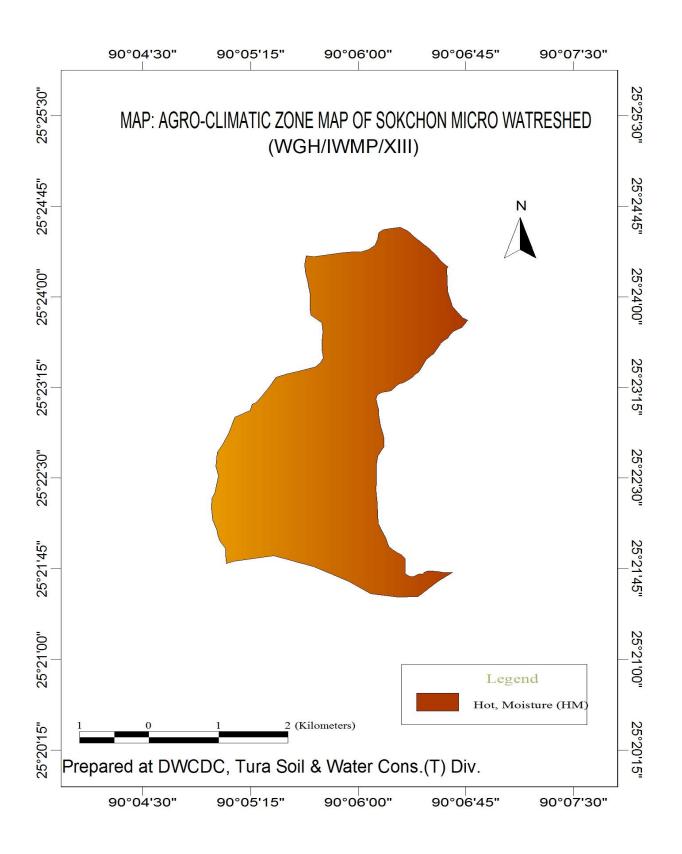


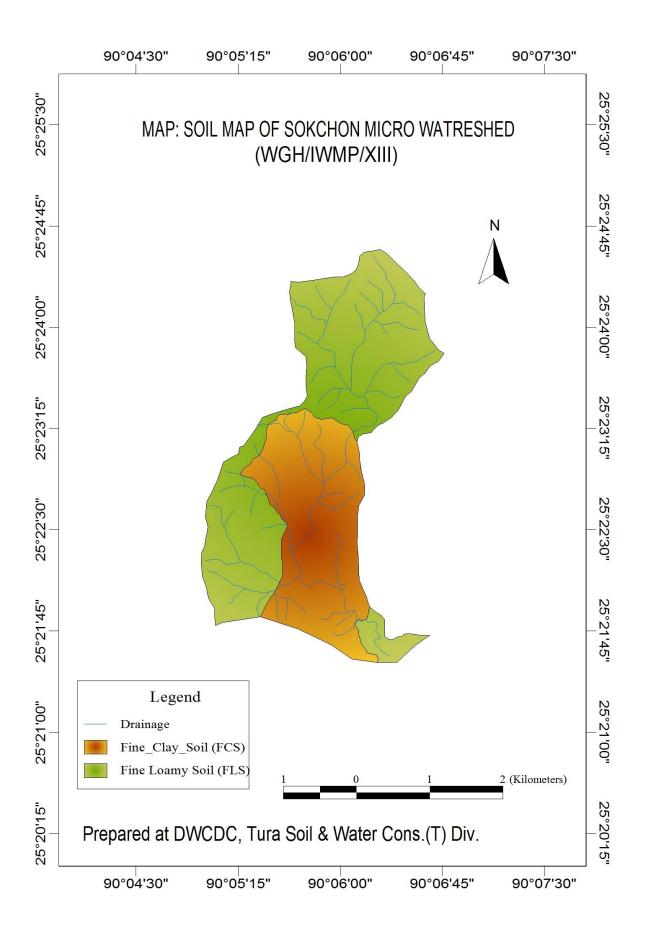


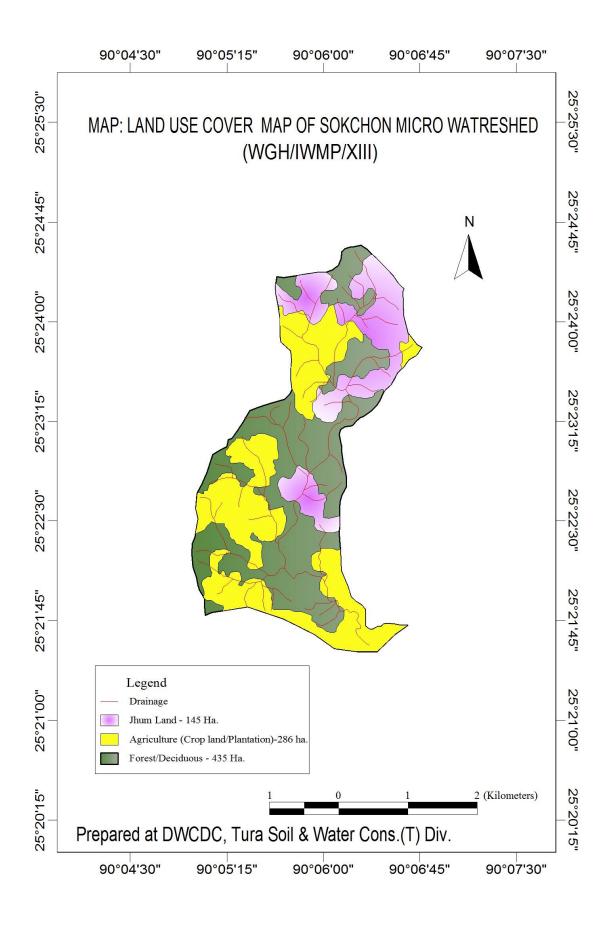


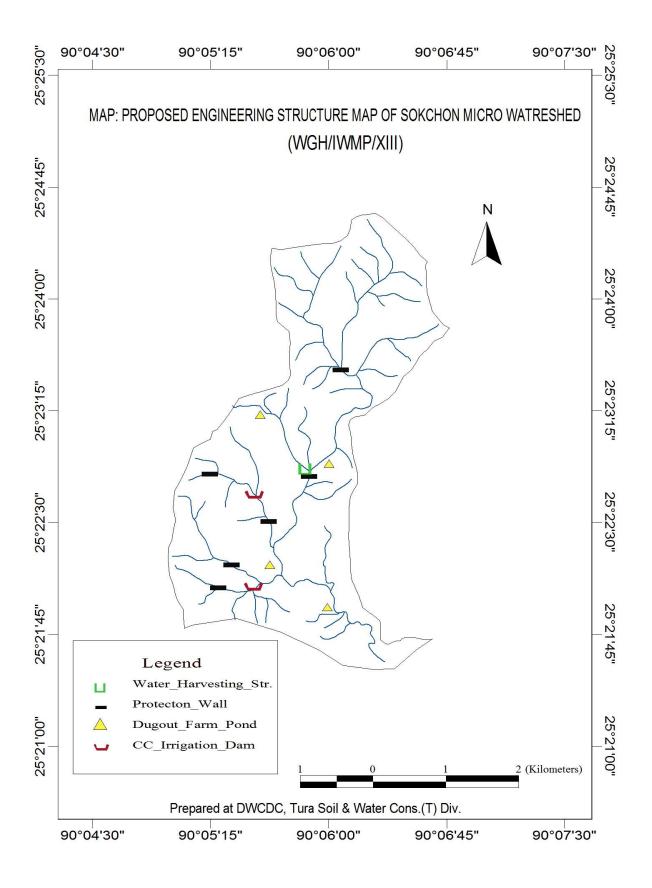


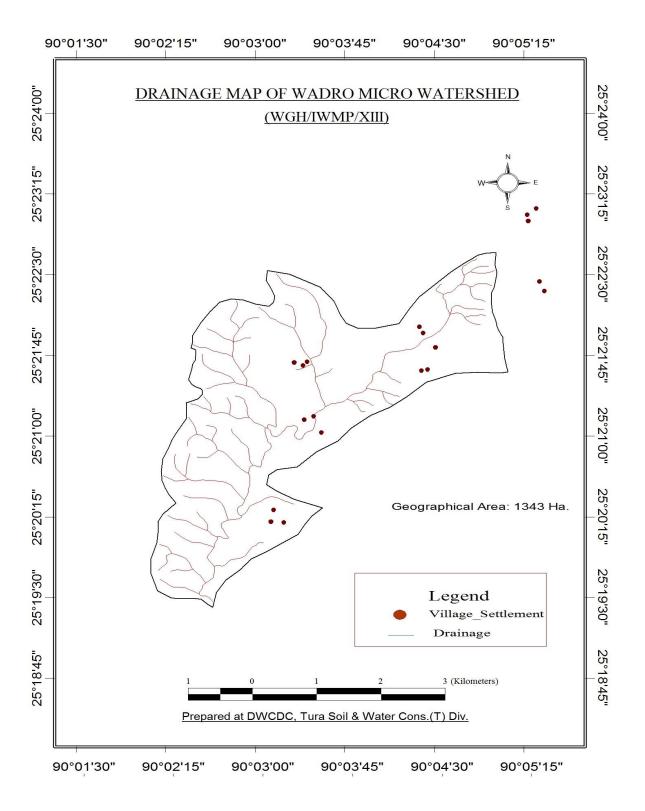


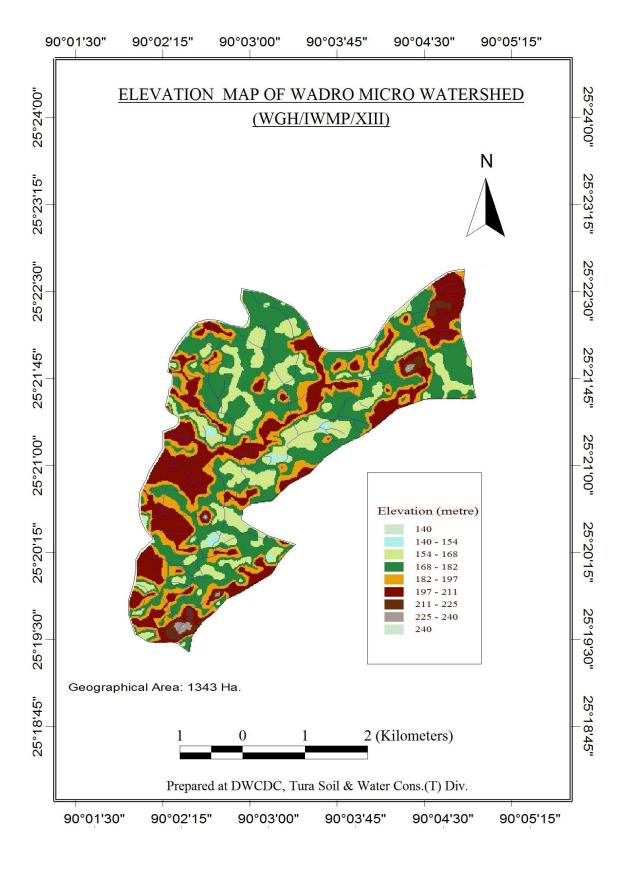


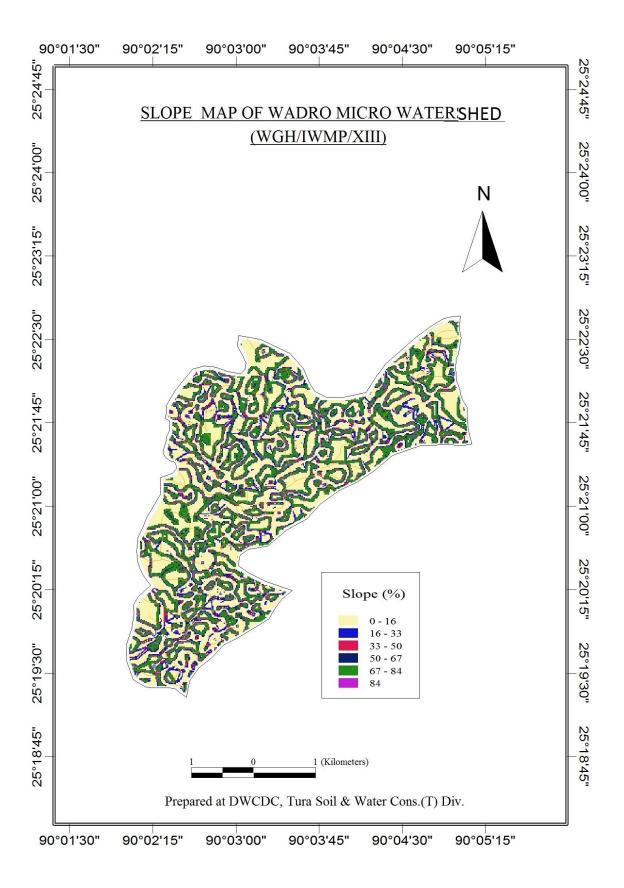


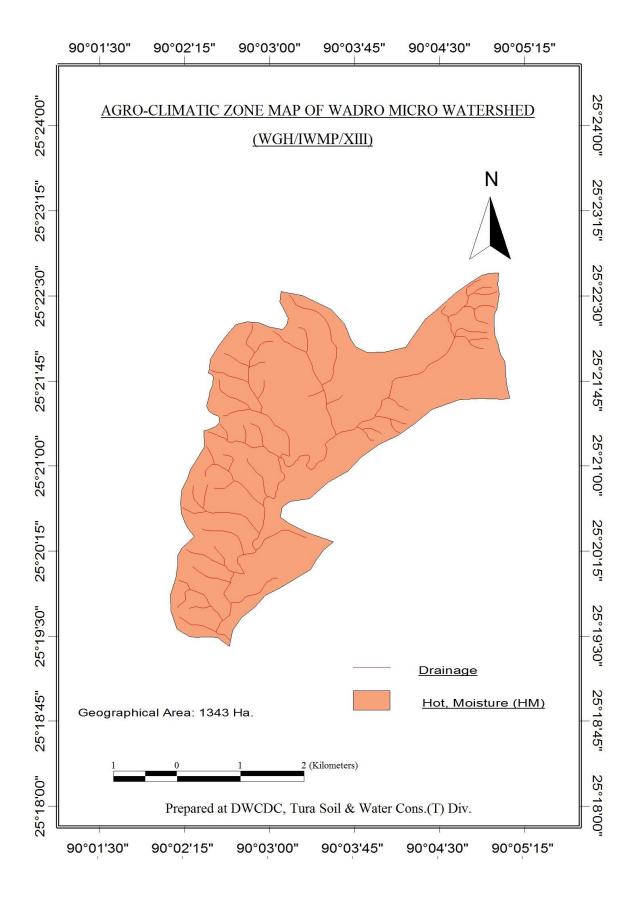


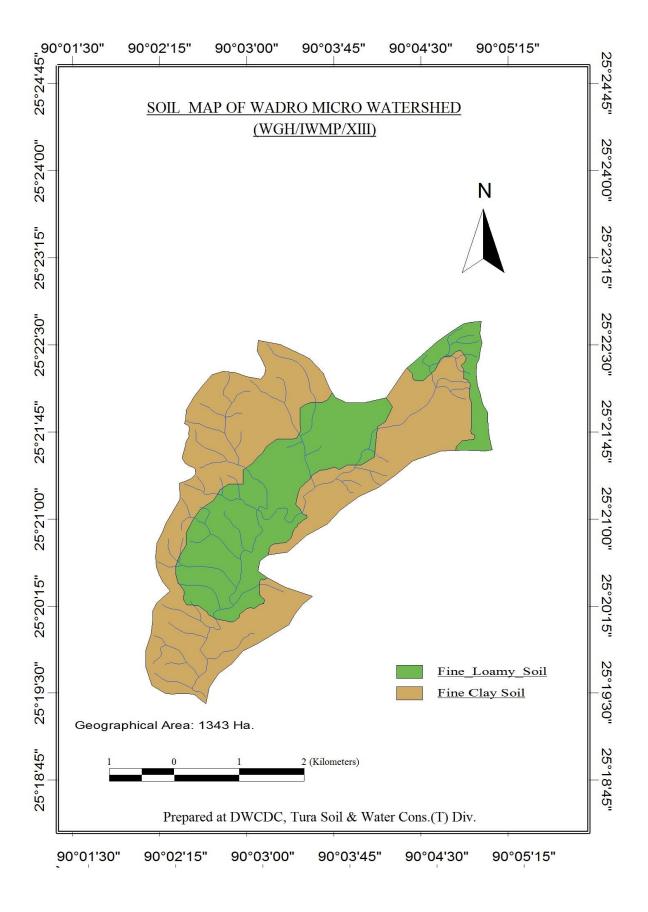


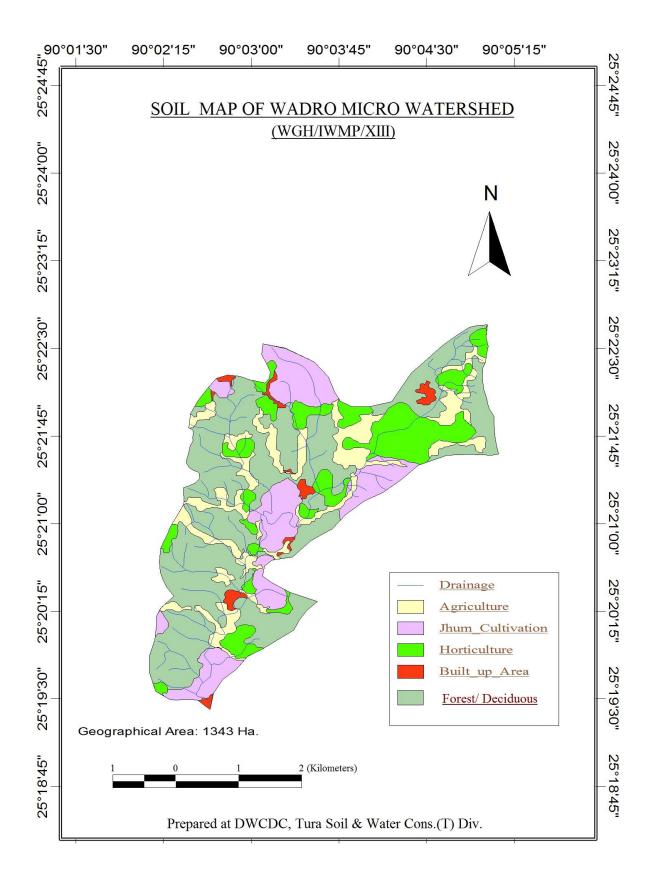


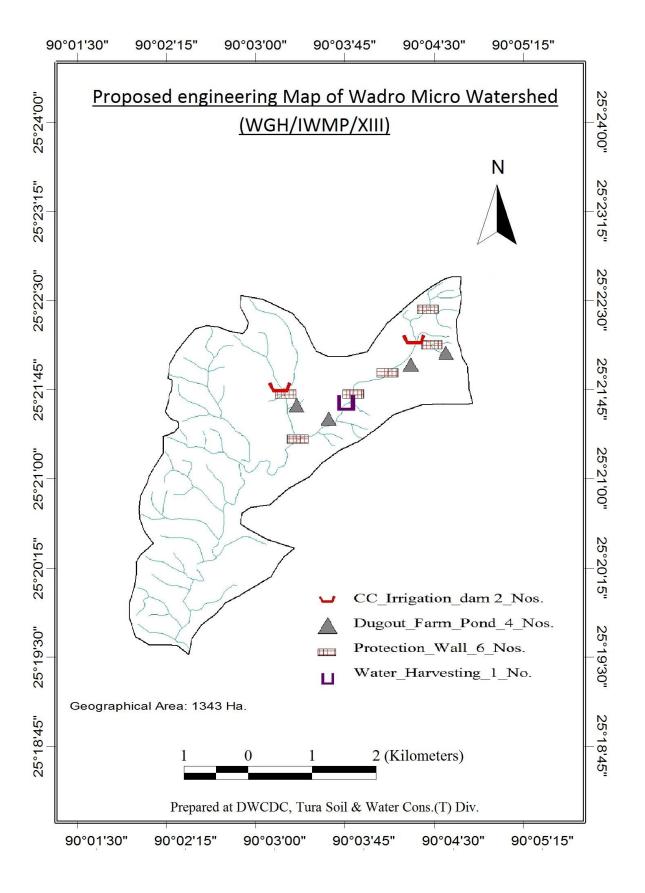


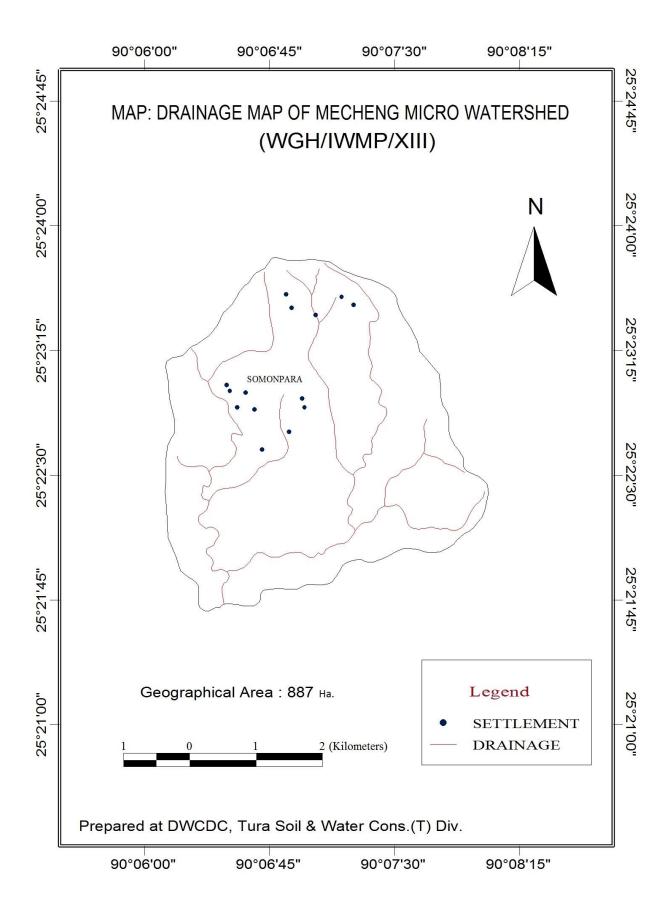


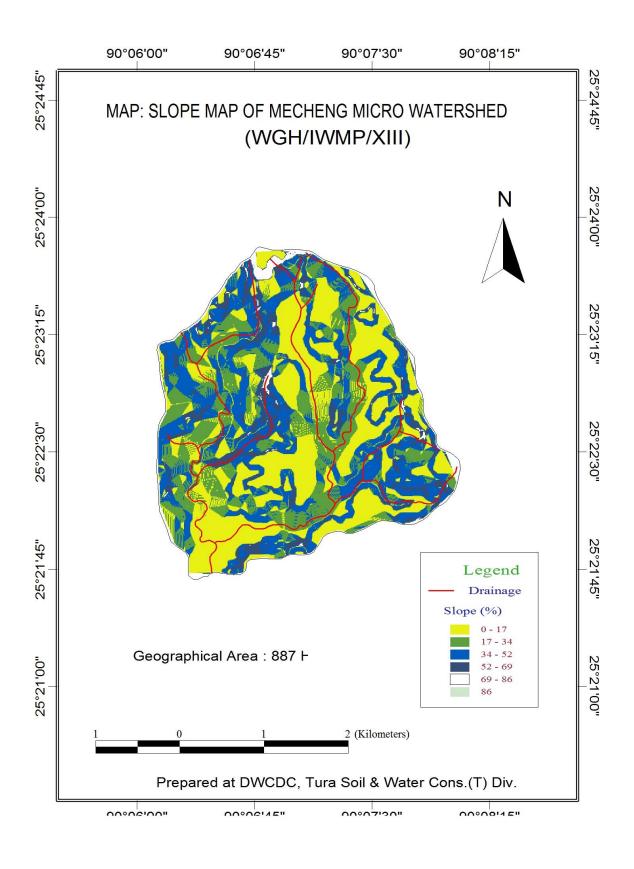


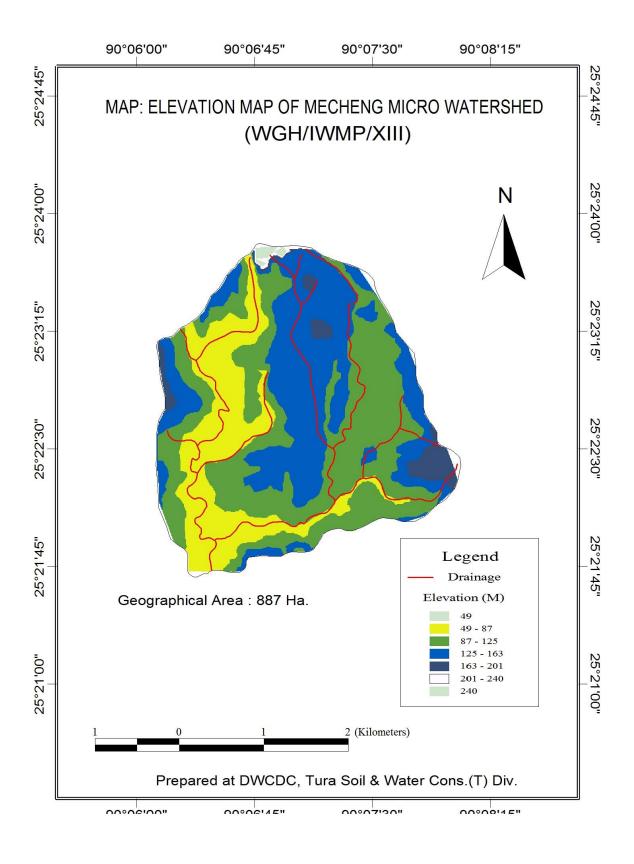


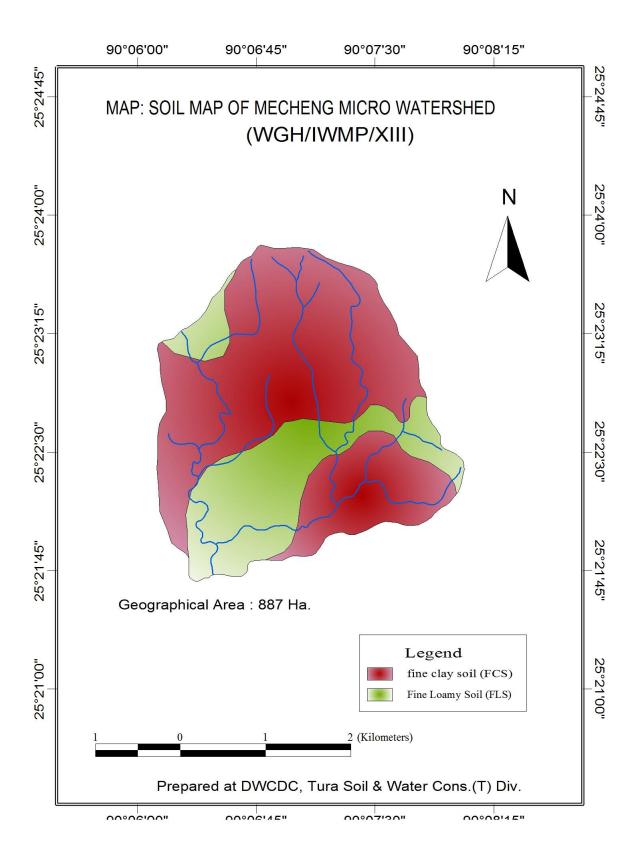


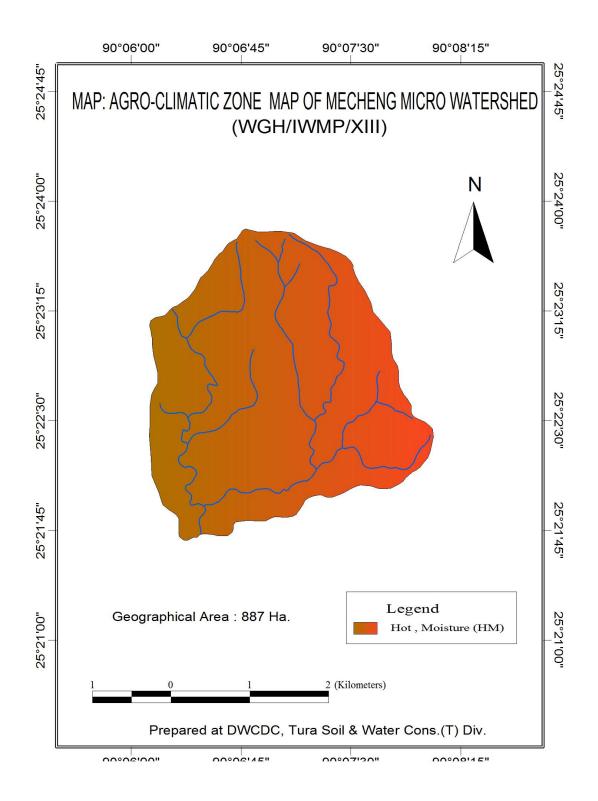


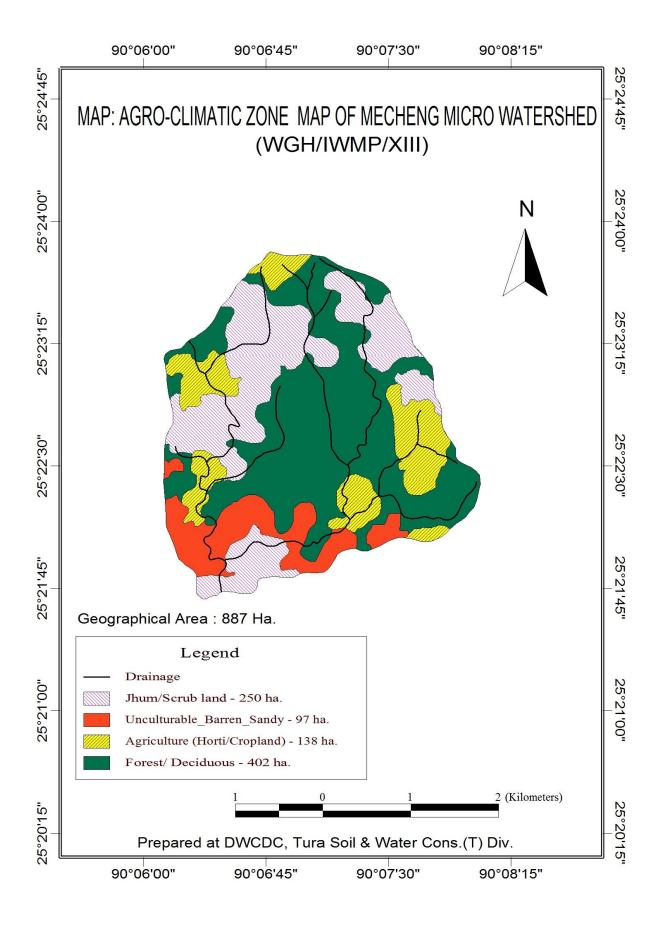


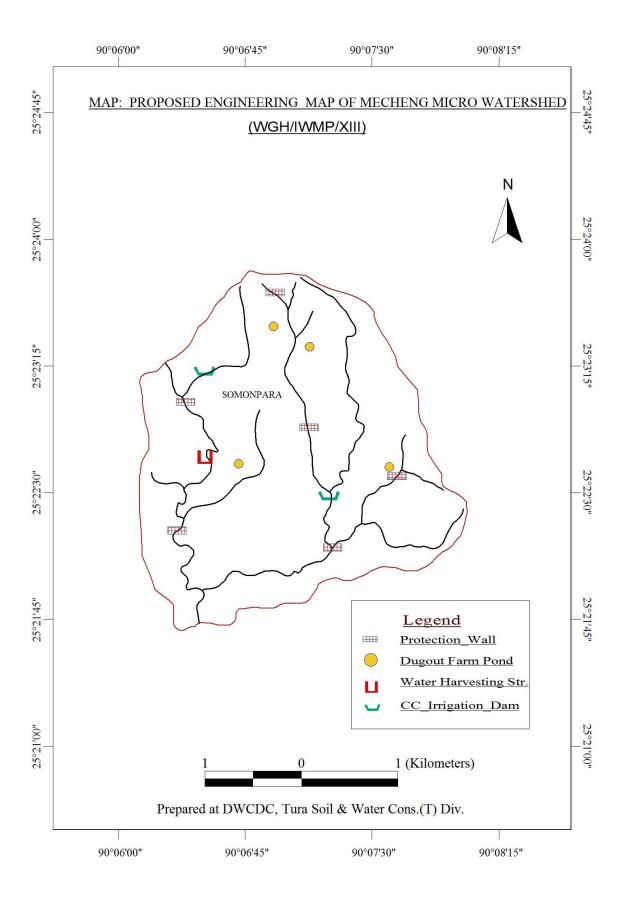












ANNEXTURE –II COST ESTIMATE

MODEL NORMS PER HACTARE FOR TERRACING (IWMP)

A. Technical Parameters .

	i) Average terrace width recommended (m)	15.00
	ii) Vertical Interval (VI) = W x S/100 - S	2.5
	iii) Terrace Length (m) = $A/W + VI$	767.00
	iv) Earthwork = 12.50 x W x S m ³	1200.00
	v) Shoulder Bund Length	779.00
	vi) Shoulder Bund Length x-section (m²)	0.08
	vii) Earthwork for shoulder Bund (m³)	62.32
	viii)Area available for cultivation (Ha.)	0.87
В.	Cost estimate .	Amount.
В.	Cost estimate . i) Jungle clearance including uprooting of stumps	Amount.
В.		Amount. 2000.00
В.	i) Jungle clearance including uprooting of stumps	
В.	i) Jungle clearance including uprooting of stumps (L/s)	2000.00
В.	 i) Jungle clearance including uprooting of stumps (L/s) ii) Cost of terracing @ Rs. 10/- m³ 	2000.00 15000.00
B.	 i) Jungle clearance including uprooting of stumps (L/s) ii) Cost of terracing @ Rs. 10/- m³ iii) Cost of shoulder Bund @ Rs. 7/- m³ 	2000.00 15000.00 850.00

(Rupees twenty thousand) only.

MODEL NORMS PER HA. FOR IMPROVEMENT OF DEGRADED FOREST (IWMP).

(Rate as per PWD SOR for R & B for 2008-09)

<u>Preliminary</u>

A. works.

i) site clearance 3 mandays @ Rs. 100/- each Rs. 300.00

ii) Pit digging (0.30 x 0.30 x 0.30) m 100 nos. @ Rs. 4/- each <u>Rs. 400.00</u>

sub - total Rs. 700.00

B. I st year Planting.

I) Cost of planting material 100 nos. @ Rs. 8/- each
Rs. 800.00
ii) Cost of planting 100 nos. @ Rs. 2/- each
Rs. 200.00
iii) Round weeding 4 times - 5 mandays @ Rs. 100/- each
iv) Plant protection measures 4 mandays @ Rs. 100/- each
sub-total Rs. 1900.00

C. <u>II year Planting</u>.

i) Refilling 10% Rs. 100.00

ii) Round weeding - 4 times- 5 mandays @ Rs. 100/- each Rs. 500.00

iii) Plant protection measures - 4 mandays @ Rs. 100/- each Rs. 400.00

Sub-total Rs. 1000.00
Grand Total Rs. 3600.00

(Rupees three thousand six hundred) only.

Model norms

COST ESTIMATE PER UNIT FOR INTEGRATED FARMING SYSTEM (IWMP).

		G. Total	Rs.	150000.00	
	iv) Cost of seeds including sowing etc.		Rs.	1500.00	
	iii) Cost of equipmants and tools etc.		Rs.	1500.00	
	ii) cost of F.Y.M. including cost of applicaton		Rs.	4000.00	
	i) Site preparation including Bunding, shaping etc.		Rs.	3500.00	
D.	Kitchen Garden ;				
C.	Supply of fingerlings -1500 nos. @ Rs.3000/- per 1000 nos. (L/s)		Rs.	4500.00	
В.	Construction of Dug out Pond (as per estimate)		Rs.	85000.00	
	iii) Cost of feeds for 6 months (L/s)		Rs.	10000.00	
	ii) Cost of Piglets - 10 nos. @ Rs. 20000/- each		Rs.	20000.00	
	i) Construction of sty @ Rs. 20000/- each		Rs.	20000.00	
A.	Piggery ;				

(Rupees one lakh fifty thousand) only.

ESTIMATE FOR THE CONSTRUCTION OF WATER HARVESTING STRUCTURE.

(Rates as P.W.D. S.O.R. for Roads, Bridges and, E&D works, 2011 - 2012)

1/134. Excavation for structures.

- (I) Ordinary Soil. .
- A. Manual means.
- (i) Upto 3.00m depth.

35.88m3 $1 \times 23.00 \times 1.20 \times 1.30 =$ Core wall -1 x 12.00 x 1.40 x 1.15 = 19.32m3 L/Channel 55.20m³

> 7. 2,760.00 @₹.50/-m³

Providing cement concrete work in 1:3:6 2/137.

foundation.....etc.

1 x 23.00 x 1.20 x 0.172 = 4.75m³ Core wall:-

> ₹. 20,244.50 @₹, 4262/- m³ ...

Plain cement concrete in open 3/141.

Foundation.....etc.

64.40m³ $1 \times 23.00 \times (0.40 + 1.00) \times 4.00 =$ Core wall :-2

5.52m² 2 x 12.00 x 0.20 x 1.15 Channel -1.20m2 1 x 12.00 x 1.00 x 0.10 71.12m3

> ₹.3,41,233.76 @₹. 4798/- m²

Construction of embankment.....etc. 4/28. Dam (embankment)-

 $1 \times 23.00 \times (2.50 + 9.50) \times 3.50 =$ 483.00m² Dam :-

41.40m³ $1 \times 23.00 \times (0.40 + 0.80) \times 3.00 = (-)$

441.60m3

₹.36,211.20 @₹.82/-m*

Providing and laying pitching on slopes with Stone boulder.....etc. 5/100

Dam (U/S)-

28.46m³ $1 \times 23.00 \times 4.95 \times 0.25 =$

 $1 \times 12.00 \times 1.00 \times 0.25 =$ Channel -

3.00m³

31,46m³

@₹, 1316/- m³

7.41,401.36

Turfing with sods. 6/37.

Dam (Embankment)

113.85m³ 1 x 23.00 x 4.95

> ₹. 8,197.20 @₹. 72/- m²

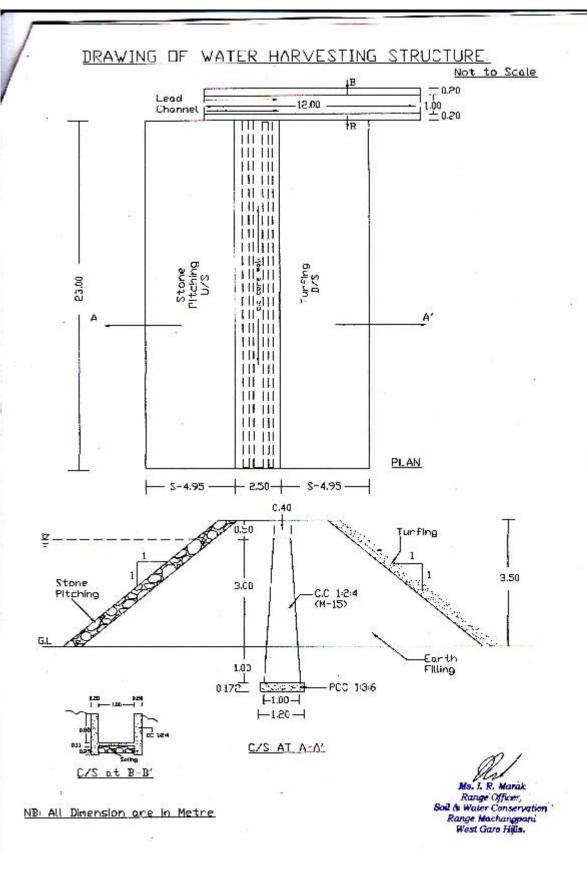
> > GRAND TOTAL:

₹.4,50,048.02

Say, ₹. 4,50,000/-

(Rupees Four lakh fifty thousand) only.

Range Officet, Water Conservation west Gare Hijis.



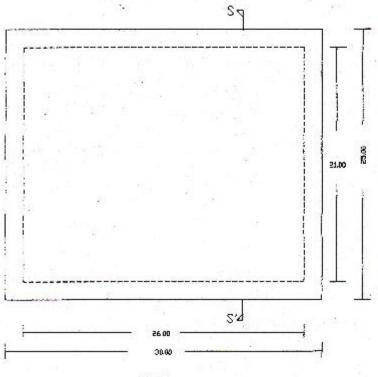
ESTIMATE FOR THE CONSTRUCTION OF DUG OUT POND. (Rate as per P.W.D's S.O.R. for Roads, Bridges and E & D Works, 2011-2012)

1/30(i)	Excavation in cutting in so	il by manua	al means for	
	Dug Out Farm Pond:-			
	2.00(30.00 x 25.00	0) +4(28.00	x 23,00) + (26.00 x 21.00)	
	6	Mile Granes		
	= 1290.67m ³			
	@₹.49/-	π ⁵		₹.63,242.83
2/ 140	(b)Stone masonry work in o	ement mon	tar I:3 in foundationetc.	
	Outlet: 1 x 7.85 x 1.80 x 0).45 =	6.36m ²	
	2 x 7.85 x 0.60 x 0	.60 =	5.65m ²	
-,,			12.01m ²	
	@₹.3061	./-m³		₹.36,762.61
			GRAND TOTAL:	₹.1,00,005.44

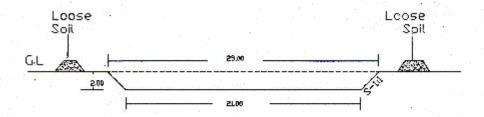
Say, ₹.1,00,000/- (Rupees One lakh)only.

Ms. 1. R. Marak Range Officer, Soit & Water Conservation Range Machangpan West Garo Hills.

DUG DUT POND Not to Scale



PLAN



C/S AT S-S'

C/S. OF OUTLET CHANNEL.

Ms. L. R. Marak Range Officer, Soil & Water Conservation Runge Machangpant West Guro Hills.

ESTIMATE FOR THE CONSTRUCTION OF C.C. IRRIGATION DAM WITH DISPOSAL CHANNEL.

(Rates as per P.W.D. S.O.R. for Roads, Bridges and, E&D works 2011 - 2012).

1/134. Excavation for structures.

(I) Ordinary Soil.

(A) Manual Means.

(i) Upto 3m depth.

M/Dam:

1 x 9.00 x 1.20 x 1.40

 $= 15.12 m^2$

G/wall :

2 x 4.60 x 0.60 x 1.00

= 5.52m³

W/wall:

2 x 5.00 x 0.60 x 1.00

 $= 6.00 \text{m}^3$

I/wall:

1 x 6.60 x 0.50 x 1.20

= 3.96m²

Apron :

1 x 4.60 x 6.00 x 0.35

= 9.66m³

O/channel:

1 x 8.00 x 1.40 x 1.15

= 12.88m²

≈53.14m³

@₹.50/-m³

.....

₹. 2,657.00

2/137.

P.C.C 1:3:6 in foundation.....etc,

Main/Dam : 1 x 9.00 x 1.20 x 0.25

 $= 2.70 m^3$

@₹. 4262/- m³

₹. 11,507.40

3/141.

Plain/reinforced c.c in open foundation complete.

(A) P.C.C M- 15.

M/Dam :

1 x 9.00 x 1.00 x 1.10

= 9.90m²

 $1 \times 9.00 \times 0.50 + 1.00 \times 2.00$

= 13.50m³

5

2 x 1.50 x 0.50 x 0.75

= 1.13m*

G/wail:

2 x 4.60 x 0.60 x 1.00

= 5.52m³

	2 x 5.50 x <u>0.30 + 0.60</u> x 2.75	= 13.61m ⁻¹	3%
Less :	2 x 1/4 x 3.00 x <u>0.30 + 0.43</u> x 1.25	= (-) 1.37m ³	
#	2x 1/4 x 0.50 x 0.50 + 1.00 x 2.00	= (-) 0.75m ²	
	* **		
W/wall:	2 x 5.00 x 0.60 x 1.00	= 6.00m ⁵	
	2 x 5.00 x <u>0.30 + 0.60</u> x 2.75	= 12.38m²	
	contractive and an extractive		
Less :	1 x 1.00 x 0.50 x 0.85	= (-)0.43m ³	
T/wall:	1 x 6.60 x 0.40 x 1.20	= 3.17m ³	
Apron :	1 x 6.05 x 6.00 x 0.15	= 5.45m ¹	
D/channel:	2 x 8.00 x 0.20 x 1.15	$= 3.68 \text{m}^3$	
	1 x 8.00 x 1.00 x 0.10	$= 0.80 \text{m}^3$	
	- V	= 72,59m ³	
	@₹.5343/-m*	₹.3,87,848.37	
		dation	

4/140(b).

Stone masonry work in pernent mortar 1:3 in foundation Complete as drawing and technical.

Apron:

1 x 6.00 x 4.60 x 0.25

= 6.90m³

1 x 6.00 x ½ x 1.50 x 2.00

= 9.00m³

D/channel:

1 x 8.00 x 1.00 x 0.25

 $= 2.00 \text{m}^3$

= 17.90m³

@₹. 3061/- m³

₹.54,791.90

5/30(i)

Excavation in cutting in soil by means with lead upto 50m.

E/channel:

1 x 705.50 x <u>1.50 + 1.00</u> x 1.00 = 881.88m³

2

@₹. 49/- m³

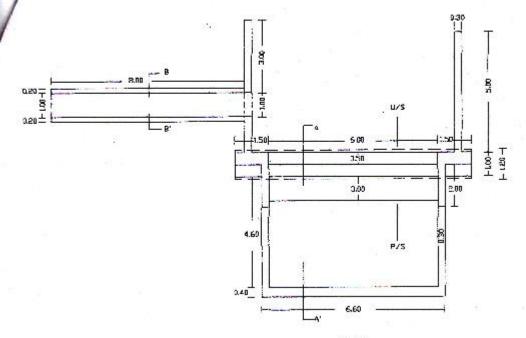
.....₹. 43,212.12

GRAND TOTAL = Rs.5,00,016.79

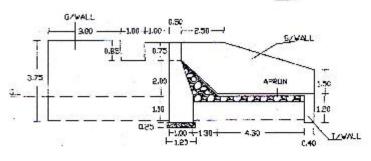
Say, ₹.5,00,000/- (Rupees Five lakhs)only.

lås. I. K. Marak Range Officer, Soil & Water Conservation Range Machangpuri West Garo Hills.

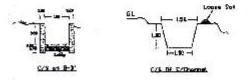
C.C IRRIGATION DAM WITH DISPUSAL CHANNEL Not to Scale



PLAN



C/S at A-A1



Ma. I. R. Marak Range Officer, Soil & Water Conservation Range Machangear West Garo Hills.

ESTIMATE FOR THE CONSTRUCTION OF C.C.PROTECTION WALL . (Rate as per P.W.D's S.O.R. for Roads, Bridges and E&D Works, 2011-2012)

1/134 Excavation for structures. 1. Ordinary soil. A. Manual means. (i) Upto 3.00m. depth. 1 x 12.00 x 1.00 x 1.00 = 12.00m ³	₹. 600.00
2/137PCC 1:3:6 in foundationetc. 1 x 12:00 x 1:00 x 0:12 = 1.44m ³ @ ₹. 4262/-m ³	₹. 6,137.28
3/141 Plain cement concrete in open foundationetc. (A) PCC-M15.	
$1 \times 12.00 \times 0.80 \times 0.90 = 8.64$	n³
$1 \times 12.00 \times 0.40 + 0.80 \times 1.50 = 10.80$	
2	
19.44	ŧm³
@ ₹. 4798/-m³	₹. 93,273.12

GRAND TOTAL:

Say, 7.1,00,000/-(Rupees One lakh)only,

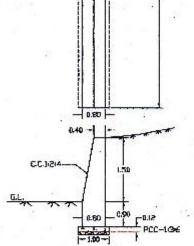
Mis. L. R. Marak Range Officer, Still & Witter Conservation. Range Machangoesi West Garo Hills.

₹.1,00,010.40

DRAWING OF C.C.PROTECTION WALL.

NOT TO SCALE.

PLAN



C/5 AT A-R

Ma. L.R. Marck Ronge Officer, Soil & Water Consumustion Range Machanigrand Blest Oute Hills.

NOTE: All disensions are in netro

ESTIMATE FOR THE CONSTRUCTION OF SPRING CHAMBER WITH RESERVOIR TANK AT ________(Reference:- MPWD's Schedule of Rates for Building works, 2010-2011).

1/1.1	Earthwor	k in ex	cavation in foun	dation		elc.		
	(b)Hard s	oil or	soil mixed with n	noorum	gravels,l	boulders, etc.		
	Ţ)am:	1 x 3.00 x 0.80 t	0.85	-=	2.04m ³		
			2 x 1.00 x 0.80	0.85	ge .	1.36m ³		
	Resewry	oir						
	Tank	:	2 x 2.70 x 0.25	k 0.50	¥ (0.68m ³		
÷9			2 x 2.50 x 0.25	k 0.50	=	0.63m ³		42
			1 x 2.50 x 2.50 x	0.25	=	1.56m ³		
						-22		
						6.27m ³		
			@ Rs. 7				Rs. 48	2.79
2/2.1	Providing	g and	laying cement o	oncrete	іп ргор.			
		Dam:	1 x 3.00 x 0.80	× 0.10	=	0.24m ³		500
			2 x 1.00 x 0.80 :	x 0.10	Ξ	0.16m ³		
	Reservoi	r						
	Tank	4	2 x 2.70 x 0.25	x 0.10		0.14m³		
			2 x 2.50 x 0.25	x 0.10	=	0.13m³		
						0.67m ^a		
	7			859/-m			Rs. 2,58	5.53
3/4.5		70	nm thick soling v	with app	roved qu	jality of stones.		
	Reservol	Г			00000000			
	Tank	(2.	1 x 2.50 x 2.50		6.25m ²			2020
5076143	Water Name	100000		.66/-m ¹			Rs. 1,03	7.50
4/2.9(ering including o					
		Dam:	2 x 3.0D x 0.75		4.50m ²			
			4 x 1.00 x 0.75		3.00m ²			
			2 x 3.00 x 1.20		7.20m ²		10	
			4 x 1.00 x 1.20	-	4.80m ²	1		
		- 8	40	_				
					19.50m ²	5.5	D- 475	4 50
			@ RS. 2	17/-m²			Rs. 4,23	1.50
					110			

Contd....2/-

```
5/2.4(a)Providing and laying of cement concrete in prop. 1:2:4....etc.
                                                           1,35m<sup>3</sup>
                Dam: 1 x 3.00 x 0.60 x 0.75 =
                                                           1.62m3
                         1 x 3.00 x 0.30 + 0.60 x 1.20=
                                                           0.90m<sup>3</sup>
                         2 x 1.00 x 0.60 x 0.75 =
                                                           1.08m<sup>3</sup>
                         2 x 1.00 x 0.30 + 0.60 x 1.20=
                                        2
             Deduct: 1 x 1.00 x 0.30 x 0.20 =(-)
                                                           0.06m<sup>3</sup>
                                                           D.63m<sup>3</sup>
                     : 1 \times 2.50 \times 2.50 \times 0.10 =
        Tank
                                                           5.52m<sup>3</sup>
                                                                                     Rs. 26,153.76
                                  @ Rs. 4738/-m3
6/3.9(a)Providing first class brick in required thickness in cement mortar
         Reservoir
         Tank : 2 \times 2.70 \times 0.25 \times 0.40 =
                                                           D.54m3
                                                            0.50m3
                         2 \times 2.50 \times 0.25 \times 0.40 =
                                                            1.04m3
                                                                                     Rs. 5,182.32
                                 @ Rs. 4983/-m3
         (b)(ii)Thickness- 12.50cm.
         Reservoir
                     : 2 x 2,70 x 1.00
                                                            5.40m<sup>2</sup>
                                                            5.00m<sup>3</sup>
                         2 x 2.50 x 1.00
                                                            10.40m<sup>2</sup>
                                   @ Rs. 668/-m2
                                                                                      Rs. 6,947.20
                                                            7/4.1 Providing 12mm thick cement plaster including cleaning the
         surface.....etc.
         (b) Proportion-1:3.
                  Dam: 2 x 3.00 x 1.20 =
                                                   7.20m<sup>2</sup>
                         4 x 1.00 x 1.20 =
                                                    4.80m2
```

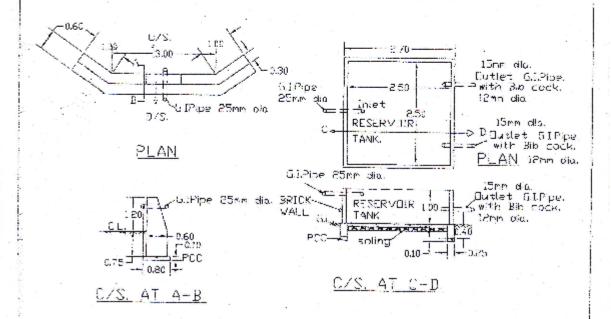
Contd....3/-

Reservoir 10.80m⁴ Tank $4 \times 2.73 \times 1.00 =$ 4 x 2.50 x 1.00 = $1 \times 2.50 \times 2.50 =$ 6.25m² 39.05m² @ ₽5, 135/-m² Rs. 5,271.75 8/11.2?Providing and fixing 25mm dia pipe including necessary suckets. ..etc. (a) Git. Pipe. 158,00macres. Length= Rs. 35,784.00 ⊚ Rs. 213/-m. 9/13.18Providing and fixing 15mm dia GA.Pipe with necessary soukets, etc. (a)(i) G.I. Pipe. 2 nos. x 1.00 = 2.00metres. · @ Rs. 142/-m. 10/11.20Supplying and fitting pape fitting complete as directed. (b) 22mm dia bib cock(brass). 2nos. & Rs. 304/-each. 508.00

Say, Rs. 88,500/ (Rupees Eighty eight thousand five hundred) only-

Mo. 1. R. Morate Range Officer Soil & Water Conservation Bangs Shockshopping

DRAWING OF SPRING CHAMBER WITH RESERVOIR TANK .



N.3: All dimensions are in metre.



ANNEXTURE –III

MoA, SUB COMMITTEE DETAILS

Smt. Kimje Ch. Sangma Nokma Chigitchakgre A'king II-14(51) P.O. Gambegre Dist. West Garo Hills

Meghalaya



Date : ———

Anga Int. Kinge Ch. Langons Chigitchok que A. Kingri Nohma indake see minge Chongmolan angni A. Kingni ningo Sois è Natur consurvation Department Waturester Nature konsurvation Department Waturester Project-ko ra ani bidingo manningha Project-ko ra ani bidingo manningha Kenchahani ba Champungani dang jana Kenchahani ba Champungani dang jana Kenchahani ba Champungani dang jana Kenchahani ba Champungani baksa Anga angni Chua Mahari baksa Anga angni chua Mahari baksa Bimang an senge see manga.

Jako Lee on enggiße,

Simi. a Ch sangma Johna II-14 (51) Chigiscuakgre Askim Ma. Chehme Ch. Marak Nokma Gambouru, Achecara A-king II-14 (41, 49) P.O. Gambegre, West Garo Hills. Meghalaya.



Lo whom it may coneven, to come to somether so blycetion Cirtife Anga Sud. Chekme Ch. Marah of Gambegge Aring Dohne meehih, P. o. Gam Ture, State of Keghelinge Jamo Dept si Develop muit si ding to LAN augho somana Mabagnio Kamianglio Complain are Objection mitela R.T.

P.G. Gambegre West Garo Hills, Meghaleya.

Ma. C Ch. M. Nokma II-14 (81 49) Gambagra, Achapara A-king West Garo Hills.

Phri Jonsing Marak Nokma

Rakuapara A·king II-18 (19) P.O. Chenggapara Dist. West Garo Hills, Meghalaya



Nohmani See on ani

Anga Shri Jonsing Marak Rahuapara
A kingni rebhera, f. O. Ching gapara, West

Lears fill, Meghalaya, indake see

Lears fill, Meghalaya, indake see

An enga Chongonotan Soil & crater

An enga Chongonotan Soil & crater

Lon sowation Department Water shed

Lon sowation Department water shed

Lon sowation Department by dings maning.

Project - na ria ani by dings maning.

A complain ba Champinga mi

ba Romplain ba Champinga mi

dongjawa

Jonsing Mossock

Pa J N Marak Nokma II-18 (19) Nokma II-18 (19) Nosi Garo Hills.

Pa Debilson D. Sangma

Sumonpara A·king II-19 (27) P.O. Gambegre, Dist. West Garo Hills, Meghalaya.



Date		
11470	•	
Control		
_		

Anga la Debilson D. Sangma Sumonpara Aring ni Nokona indake See Orienga Arking ni Nokona indake See Orienga je angni Arkingni ningo Soil & Water je angni Arkingni ningo Soil & Water Konsewation Separament Watershed Konsewation Separament Watershed Konsewation Separament bidingo mamungka fro ject na reaani bidingo mamungka Konsepengani ba kenchakna nangani Kampengani ba kenchakna nangani Konsepengani ba kenchakna nangani dong jawa ine anga been bimang andong jawa ine anga been bimang anLongieko bee on enga Chiquiko bee on enga

Nokma
Shri, Debilson D. Sangma
Somonpara A.king
West Garo Hills.

Pa. Delisson Sangma.

Khiljam Marako Nokma Baduparo Aking II-18177 20.Chenggapara Dist West Galo Hills Meghalaya,



Date :

Bub!- Boil concil vation na Dev: Da ana ba je shime Do-Ba, en a emani gimin evelima troccomint su on ani:

Anga. angni Albingni ningeniko
Beil Cancer va Iion estice na ba Reparti ment na a ako-kerellet ni Shem sangna anga. en enga uni gimin gearangni (ba) departi ment ni berako. mamungcemplaint dengjawa ano ben-Chahani dengjawa ine anga Roccement su en alenga Ja kolloment ko Su onalgiba Badupara Abingni Nohma

Ghri- Legan - Marah

Fine ral Sely - Marah

Teneral Sely - Marah

Reducers West Gara Bliss

Reducers West Gara Bliss

Shri Nangson Sangma

Sengminpera A king II - 19 (26) P.O. Chenggapara, West Garo Hills, Meghalaya.



Date :

Nokmani See In ani

Ango Shri Nang Langora Sengarinpare. A King-ai Nokara indahu sai
pare A King-ai Nokara indahu sai
pare angu A King-ai aingo
pare enga je angu A King-ai aingo
Soil & water Con suwalion Separtarent
Soil & water Con suwalion Separtarent
Natur Shud Prinyoel - ko raiani bidingo
water Shud Prinyoel - ko raiani bidingo
ma anung Chanapengani ba Konglaia
ma anung Chanapengani ba Konglaia
dong jawa. Iako anga be a Briang
ani sung see an enga

Jako su on englipe

Grat is Sanging September 18 (SE Sanging para Arthro Water Grass Mills)

	ment Councils (VEC) a	- 1.1- 5	H	Gambaga
The Village Employ	ment Councils (VEC) a	na the Commun	mes — T	
Villages, Gambega	Blocks, West 0	aro Hills, Megha	alaya have no ol	bjection to the
Convergence of MGNREGS	with integrated Man	agement Project	t (IWMP) at	Gam begte
&	villages/Vil	lage under	Situli_	Micro
Watershed, WGH IWMP_	H being Impler	nented by Tura S	ioil & Water Co	nservation (T) Division.
We also agreed to	allocate and commit	Funds for Wag	e as well as ma	terial component under
MGNREGS in our Annual W				
during the Project Period (<u> プロ/3</u> to	2017]. The wage a	and material component
under MGNREGS shall be u	tilized for following w	orks.		

- 1. Dugout Pond.
- 2. Wet Terrace.
- 3 Areca nut Plantation.
- Rubber Plantation.
- Stone Masonry Protection Wall.
- 6 Earthen Irrigation channel.

President, E. C. Garnhegte V. E. C. West Gard Hills. Section, Gambegre V. S. C. West Garo Hills.

Villages, Gambiga	nt Councils (VEC) and the Communities Games Games Hills, Meghalaya have no objection to the
Convergence of MGNREGS wit	h Integrated Management Project (IJVMP) at Gam Light
&	villages/Village under Kitch Micro
Watershed, WGH-IWMP_X7/	 being Implemented by Tura Soil & Water Conservation (1) Division
We also agreed to allo	ocate and commit Funds for Wage as well as material component uni
MGNREGS in our Annual Work	Plan for various Soil & Water Conservation Works which shall be taken

- 1. Dugout Pond.
- 2. Wet Terrace.
- 3. Areca nut Plantation.
- i∕y, Rubber Plantation.
- \mathcal{G}_{ζ} Stone Masonry Protection Wall.

t two continues in

in the same of the

during the Project Period | 20/3 to

under MGNREGS shall be utilized for following works.

6 Earthen Irrigation channel.

General V. E.C. West Court Hills

20/ と、). The wage and material component

High His Company Caro His.

Villages, Gamber	oloyment Councils (VEC	t Garo Hills, Megha	laya have no objec	tion to the
Convergence of MGNR	GS with integrated Ma	anagement Project.	(IWMP) at	mm back
<u>e</u>	villages/	Village under 🕍	echniq	Micro
Watershed, WGH IWMI	being Imp	lemented by Tura S	oil & Water Conser	vation (T) Division.
	to allocate and comm			
MGNREGS in our Annua	l Work Plan for various	Soil & Water Cons	ervation Works wh	ich shall be taken up
during the Project Perio	od (<u>2073</u> se utilized for fallowing		_). The wage and	material component

- 1. Dugout Pond.
- 2. Wet Terrace
- Areca nut Plantation.
- . Rubber Plantation.
- . Stone Masonry Protection Wall. Earthen Irrigation channel.

VEC.

Soundary E.C.

The Village Employment Councils (VEC) and t	he Communities	
Villages, 6 ambor Blocks, West Gard	Hills, Meghalaya have no objection to the	
Convergence of MGNREGS with Integrated Manager	ment Project (IWMP) at	
g viilages/Village	under VIICES	
Watershoo, WGH-IWMP <u>X 117</u> heing Implemen	ted by Tura Soil & Water Conservation (T) Division.	
We also agreed to allocate and commit Fu	nds for Wage as well as material component under	
MGNREGS in our Annual Work Plan for various Soil &	Water Conservation Works which shall be taken up	
during the Project Period (2012 to	2017. The wage and material component	
under MGNREGS shall be utilized for following work	5.	
1: - Dugout Prond.	and a second control of the control	-
2. Wet Torrace.		
We can be not be the to		
. Areca nut Plantation.		
Rubber Plantation.		
Farthen Irrigation channel.		
	lanoma	
	Shri Nangson Sangma h.T.J. F	
Sol.	4 1 2	
677-	6.7°J.9	
Secretary		
Seaguispara W.F. Ca-	President	
West Gare Hills	Sensiplements, V.E. C.	

The Village Employme Villages, Gam began	nt Councils (VEC) and the Co Blocks, West Garo Hills,	The Colonia Co	hough the
The state of the s			
Convergence of MGNREBS wit			ung (a amagka
& Serguentas	villages/Vj ilag e unde	- Sowehou	Micro
Watershed WGH-IWMP	being Implemented by Tura Soll & Water Conservation (1) Division.		
MGNREGS in our Annual Work during the Project Period [to	er Conservation Works	
under MGNREGS shall be utiliz	ed for following works.		
 Dugout Pond, 			
Wet terrace.			

- 3. Areca nut Plantation.
- 4. Rubber Plantation.
- 😸 Stone Musonry Protection Wall,
- 6 Farthen Irrigation channel.