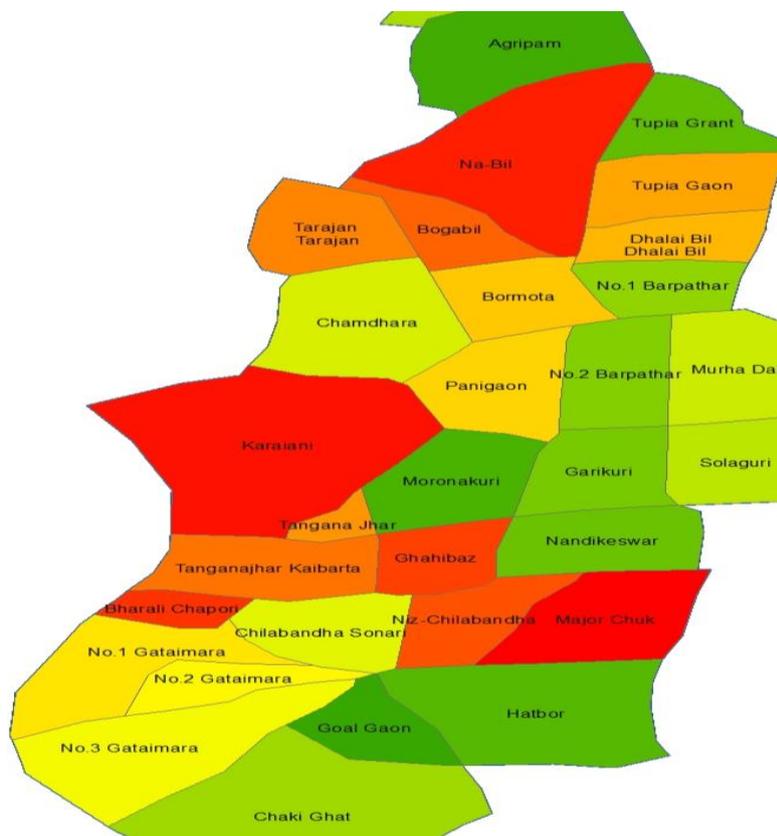


DETAILED PROJECT REPORT
OF
SONITPUR-1/WDC/2021-22 (JIYA BHARALI PART-I)
UNDER
WDC-PMKSY2.0



Prepared By

Project Manager, WDC-PMKSY 2.0
Cum
Divisional Officer
Sonitpur Soil Conservation Division,
Tezpur

PREFACE

The detailed project report for Sonitpur-WDC-I/2021-22 (Jiyabharali Part-I) has been prepared with an objective to optimally harness the natural resources available in order to achieve sustainable development in the region.

Emphasis has been laid on environmental management practices (EMPs) an potential tools for successful watershed management keeping in view the vulnerability of the natural elements subjected to major changes. Traditional natural resources management practices amalgamated with the understanding of soil science and hydro-meteorology have been applied in order to achieve the objectives of integrated watershed management programme.

The planning process has been participatory in nature. The active participation of the rural inhabitants within the project area and proper guidance of the PIA has been reflected in the DPRs.

The staff of our soil conservation department with their profound experience in executing development projects of similar nature has been the guiding force in the entire process of DPR preparation.

The Project Manager, WCDC, WDC-PMKSY 2.0, Sonitpur acknowledges the effort to the WDT Leader cum Jr Engg. Sonitpur Division, Staff of Sonitpur Soil Conservation Division, Accountant under WCDC, WDC-PMKSY 2.0, Sonitpur & Dealing Assistant WDC- PMKSY 2.0 for their support and hard work. They have provided for successful completion of the Detailed Project Report.

Project Manager

WCDC, WDC-PMKSY 2.0, Sonitpur
& Divisional Officer
Sonitpur Soil Conservation Division,
Tezpur

DETAILED PROJECT REPORT

OF

SONITPUR WDC-1/2021-22 (JIYABHARALI PART-I)

Micro Watershed : Na-Bill, Panigaon, Ghahibaz and
Gataimara

Micro Watershed Code No: 3A3A2b1, 3A3A2b2, 3A3A2b3,
3A3A2b4,

IWMP project : NA

Block : Na-Duar

District : Sonitpur

Name of the PIA : Jiyabharali Part-I

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Annexure B: Five Year Budget Details of Productivity Enhancement

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Financial Outlays :

Major Head	Sub Heads	Total %	1 st year		2 nd year		3 rd year		4 th year		5 th year		Total
			%	Fin (Rs.)									
Administrative	Management Cost	10	2	22.00	2	22.00	2	22.00	2	22.00	2	22.00	110.00
	Monitoring & Evaluation	2	0	-	0.5	5.50	0.5	5.50	0.5	5.50	0.5	5.50	22.00
Preparatory Phase	Entry Point Activity	2	2	22.00	0	-	0	-	0	-	0	-	22.00
	DPR Preparation	1	1	11.00	0	-	0	-	0	-	0	-	11.00
	Institution & Capacity Building	3	1.5	16.50	0.5	5.50	0.5	5.50	0.25	2.75	0.25	2.75	33.00
Works Phase	Natural Resource Management	47	16	176.00	16	176.00	9.5	104.50	3	33.00	2.5	27.50	517.00
	Production System	15	1	11.00	3	33.00	6	66.00	4.25	46.75	0.75	8.25	165.00
	Natural Resource Management & Governance	2	0.5	5.50	0.5	5.50	0.5	5.50	0.5	5.50	0	-	22.00
	Livelihood Activities for the asset less persons, Micro Enterprises & Business Development	15	1	11.00	2.5	27.50	6	66.00	4.5	49.50	1	11.00	165.00
Consolidation & Withdrawal Phase		3	0	-	0	-	0	-	0	-	3	33.00	33.00
Total		100		275.00		275.00		275.00		165.00		110.00	1100.00

CHAPTER 1

Introduction and Background

INTRODUCTION

- Name of the State : Assam
- Name of the District : Sonitpur
- Names of the Blocks : Na-Duar
- Name of the project : Sonitpur WDC-1/2021-22 (Jiyabharali Part-I)
- Financial Year of sanction : 2021-22
- Project duration : From 2022 to 2027
- Map of the project area showing village boundaries, contours and drainage.

II). PROFILE OF THE WATERSHED PROJECT:

Table No.1.1 Project at a Glance

1	Name of the State	Assam		
2	Name of the project	Sonitpur WDC-1/2021-22 (Jiyabharali Part-I)		
3	Name of the District	Sonitpur		
4	Names of the Blocks	Na-Duar		
5	Names of Gram Panchayats	Dakhin Moradhol,Uttar Silabandha,Maidhya Silabandha,Dakhin Silabandha and Pub Moradhal		
6	Names & Census Code of Villages covered	MWS Name and Code	Name of Village	Census Code
		Nabill MWS (3A3A2c2)	1)Bogabil	1164000
			2)Tupia Grant	1163100
			3)Tupia Gaon	1163800
			4)Agripam	1162200
			5)Gorbil	1162300
			6)Dhalaibil	1163900
			7)Nabill	1163000
			8)Bormota	1164500
9) No.1 Barpathar	1164600			
Panigaon MWS (3A3A2b3)	1)Chamdhara	1164400		
	2)Maranakuri	1165600		
	3)Karaiani	1165400		
	4)Tarajan	1164100		
	5)Solaguri	1165800		
	6) Garikuri	1165700		
	7) Tanganajhar	1165500		
Ghahibaz MWS (3A3A2b1)	1)Nandikeswar	1166600		
	2) Ghahibaz	1166700		
	3)Tanganajhar Kaibatra	1166800		
	4) Major Chuk	1167300		
	5) Niz Chilabandha	1167200		
	6) Bharali Chapari	1166900		

		Gataimara MWS (3A3A2a3)	7) Chilabandha Sonari 1)Chaki Ghat 2) No. 1 Gataimara 3) Hatbor 4) No. 2 Gataimara 5) Goal Gaon 6) No. 3 Gataimara	1167100 1168700 1168400 1168300 1167000 1168600 1168500
7	Four major reasons for selection of watershed	<p>1. Flood is a major concern for the watershed. Floods cause instant devastation of the life and properties. On the other hand infested thousands of hectares of lands with sands thereby converting cultivable land into waste lands.</p> <p>2. Unscientific system of cultivation is also another major problem in the area, which leads the path towards depletion in the fertility, thereby reducing in the production.</p> <p>3. Run-off originated from seasonal rain attain high velocity due to medium to steep prevailed in the watershed and thereby causes all types of soil erosion hazards.</p> <p>4. Lack of sufficient vegetation cover in the project area is a permanent factor effecting the. infiltration and percolation of surface flow leading to severe moisture stress in the soil which effects the economy of the people in the long run.</p>		
8	Name, Address , Phone No and Reg.No.. of the PIA(s)	Sonitpur-1 WDC/2021-22 (Jiyabharali Part-I), O/O The Divisional Officer, Sonitpur Soil Conservation Division, Tezpur.		
9	Date of approval of Watershed Development Plan by the DPC	19-01-2022		
10	Area of the Project (ha.)	7814.00		
11	Area proposed to be treated (ha.)	5000.00		
12	Financial Year of sanction	2021-22		
13	Project duration	From 2021-22 to 2025-26		

14	Project Cost (Rs. in Lakhs)	1100.00
15	Date of Sanction by State authority	24-04-2022
16	Date of Release of 1 st Installment of Central Assistance (To be filled by DoLR)	
17	Any other, please specify	N/A

Date Source : Field Survey

Table No. 1.2 Need and Scope for Watershed Development

A write up elaborating the weightage table for selection of the watershed. (Weightage for selection of Watershed (as per DoLR's instructions already issued)

Project Name	Project Type	Weightage												
		I	ii	Iii	iv	v	vi	vii	Ix	x	xi	xii	xiii	
Sonitpur-1 WDC/2021-22	Others(Plan)	10	5	5	10	5	0	5	7.5	15	10	5	10	

*As per PPR

Slno	Criteria	Max Score	Ranges and Scores			
i	Poverty index(%of poor to population)	10	Above 80% (10)	80 to 50 % (7.5)	50 to 20 % (5)	Below 20% (2.5)
ii	% of SC/ST population	10	More than 40% (10)	20 to 40 % (5)	Less than 20% (3)	
iii	Actual wages	5	Actual wages are significantly lower than minimum wages (5)	Actual wages are equal to or higher than minimum wages (0)		
iv	% of small and marginal farmers	10	More than 80% (10)	50 to 80% (5)	Less than 50 (3)	
v	Ground water status	15	Over exploited (15)	Critical (10)	Sub critical (5)	Safe (0)
vi	Moisture index/ DPAP/DDP Block	10	-66.7 & below (10) DDP Block	-33.3 to -66.6 (5) DPAP Block	0 to -33.2 (0) Non DPAP/DDP Block	
vii	Area under assured irrigation	15	Less than 10% (15)	10 to 20% (10)	20 to 30% (5)	Above 30% (Reject)
viii	Drinking water	10	No source (10)	Problematic village (7.5)	Partially covered (5)	Fully covered (0)
ix	Degraded land	15	High – above 20% (15)	Medium – 10 to 20 % (10)	Low – less than 10 % of TGA (5)	
x	Productivity potential of the land	10	Lands with low production & where productivity can be significantly enhanced with reasonable efforts (10)	Land with moderate production & where productivity can be enhanced with reasonable efforts (5)	Lands with high production & where productivity can be marginally enhanced with reasonable efforts (0)	

xi	Contiguity to another watershed that has already been developed/treated	10	Contiguous to previously treated watershed & contiguity within the micro watersheds in the project (10)	Contiguity with in the micro watersheds in the project but non contiguous to previously treated watershed (5)	Neither contiguous to previously treated watershed nor contiguity within the micro watersheds in the project (0)	
xii	Cluster approach in the plains (more than one contiguous micro-watersheds in the project)	15	Above 6 micro-watersheds in cluster (15)	4 to 6 micro watersheds in cluster (10)	2 to 4 micro watersheds in cluster (5)	
xiii	Cluster approach in the hills (More than one contiguous micro-watersheds in the project)	15	Above 5 micro-watersheds in cluster (15)	3 to 5 micro watersheds in cluster (10)	2 to 3 micro watersheds in cluster (5)	
	Total	150	150	90	41	2.5

Date Source : Field Survey

Table no.1.3: Watershed information

Sl no	Name of Project	Watershed Code	Villages to be Treated	Geographical Area(Ha)	Treatable Area(Ha)	Approval Year	
1.	Sonitpur-WDC-1/2021-22 (Jiya Bharali Part-I)	Na-Bil	Bogapani	218.00 Ha.	185.00 Ha.		
2.			TUPIA GRANT	154.00 Ha	115.00 Ha.		
3.			TUPIA GAON	244.00 Ha	185.00 Ha.		
4.			AGRIPAM	109.00 Ha	85.00 Ha.		
5.			GORBIL	223.00 Ha	125.54 Ha.		
6.			DHALAI BIL	278.00 Ha.	115.00 Ha.		
7.			NA-BIL	322.00 Ha	195.00 Ha.		
8.			BORMOTA	238.00 Ha	187.00 Ha.		
9.			NO.1 BARPATHAR	126.00 Ha	62.00 Ha.		
10.			Pani Gaon	CHAMDHARA	264.00 Ha		185.00 Ha.
11.				Moronakuri	397.00 Ha		152.00 Ha.
12.				KARAIANI	328.00 Ha		185.00 Ha.
13.	Sonitpur-WDC-1/2021-22 (Jiya Bharali Part-I)	Pani Gaon	TARAJAN	684.00 Ha	296.00 Ha.		
14.			MURHA DAL	351.00 Ha	265.00 Ha.		
15.			NO.2 BARPATHAR	216.00 Ha	185.00 Ha.		
16.			PANIGAON	282.00 Ha	185.00 Ha.		
17.			Solaguri	207.00 Ha	158.00 Ha.		
18.			Garikuri	204.00 Ha	152.00 Ha.		
19.			TANGANA JHAR	120.00 Ha	95.00 Ha.		2021-22

	Sonitpur-WDC-1/2021-22 (Jiya Bharali Part-I)	Gataimara	Chaki Ghat	69.00 Ha	52.00 Ha.		
20.			No.1 Gataimara	330.00 Ha	215.00 Ha.		
21.			No.2 Gataimara	227.00 Ha	115.00 Ha.		
22.			Goal Gaon	376.00 Ha	212.00 Ha.		
23.			No.3 Gataimara	101.00 Ha	58.00 Ha.		
24.			Nandikeswar	202.00 Ha	205.00 Ha.		
25.		Ghahibaz	Ghahibaz	155.00 Ha	125.00 Ha.		2021-22
26.			Tanganajhar Kaibarta	259.00 Ha	142.00 Ha.		
27.			Major Chuk	313.00 Ha	185.44 Ha.		
28.			Niz- Chilabandha	136.00 Ha	115.46 Ha.		
29.			Bharali Chapori	236.00 Ha	132.00 Ha.		
30.			Chilabandha Sonari	201.00 Ha	175.00 Ha.		
31.			Hatbor	244.00 Ha	158.00 Ha.		2021-22
32.							
TOTAL			7814.00 Ha.	5002.44 Ha.			

Data source : GIS Data, Field Survey

Table No.1.4: Status of other development project in the area

Sl No.	Name of the programme/scheme	Sponsoring agency	Objectives of the programme/scheme	Year of commencement	Villages covered	Estimated number of beneficiaries
1.	The Mahatma Gandhi National rural Employment Guarantee Act. (MGNREGA)	Department of Rural Development, Ministry of Rural Development	Is to enhance Livelihood security in rural areas by providing at least 100 days of guaranteed wage employment in a financial year to every household whose adult members volunteer to do unskilled manual work	2009-10 to 2019-20		
2.	National Rural Drinking Programme	Ministry of Drinking Water and Sanitation, Govt. of India	Source sustainability, community managed programmes and recognition of the gap between infrastructure created and service available, installation of water source will not be considered as the criteria for fully covered habitation, but adequate water supply received by all household of the habitations will be the criteria of water conservation and introduction of catchment protection schemes for surface water.	2009		

Date Source : Field Survey

Table No. 1.5: Status of previous watershed programme-

S . No	Project name	Year started	Name of villages	No. Of micro watershed	Water shed codes	Area under treatment	Funding source	Nodal agency	PIA	Total cost	Expenditure incurred up to start of IWMP	% financial completion	% physical completion
1 .	Sakumatha Hariyali	2007	-	-	-	-	Ministry of Rural Development	Department of Panchayat and Rural Development	DRDA			100 %	

Data source : Field Survey

CHAPTER 2

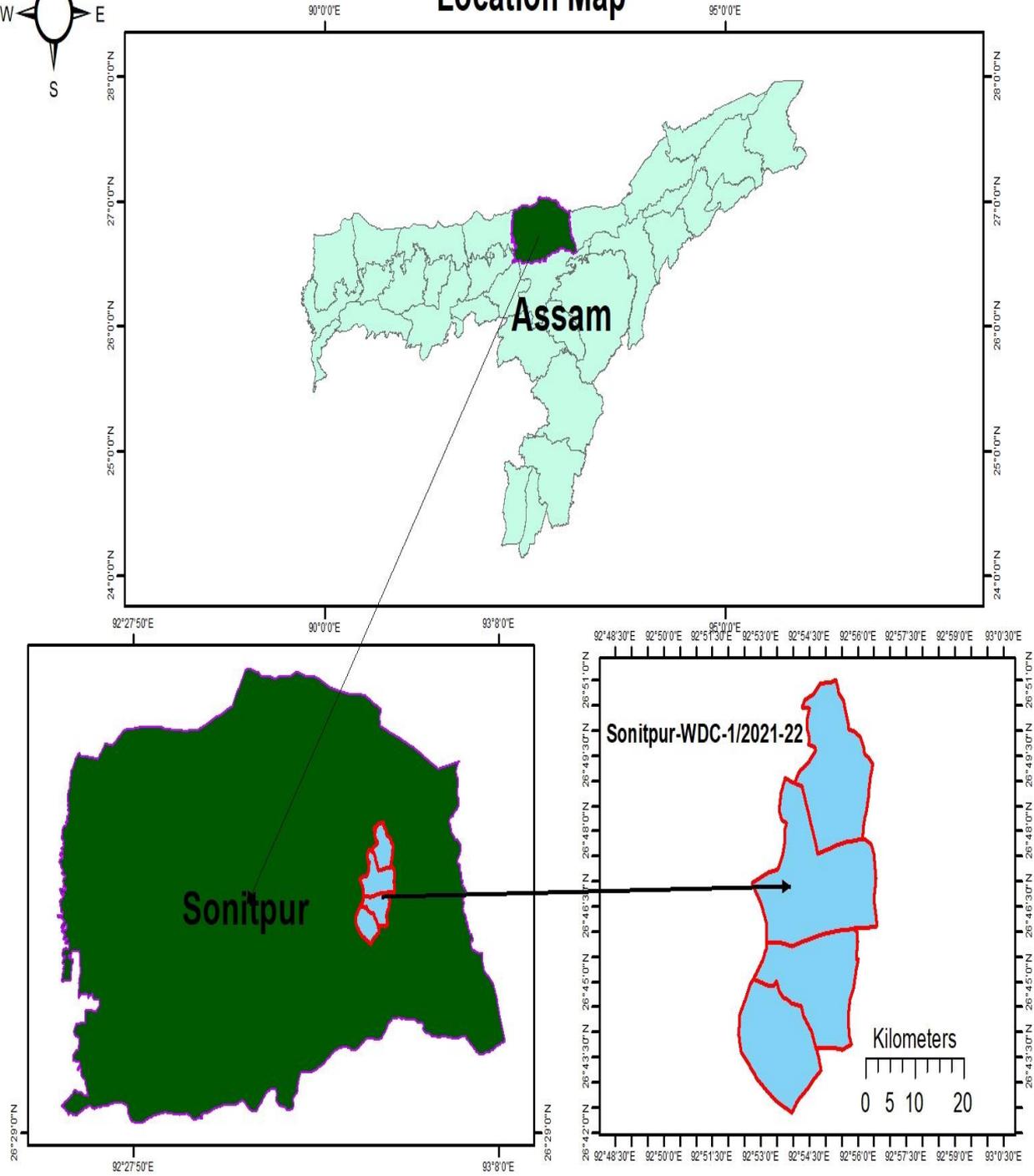
General Description of Project Area

Table 2.1: Location

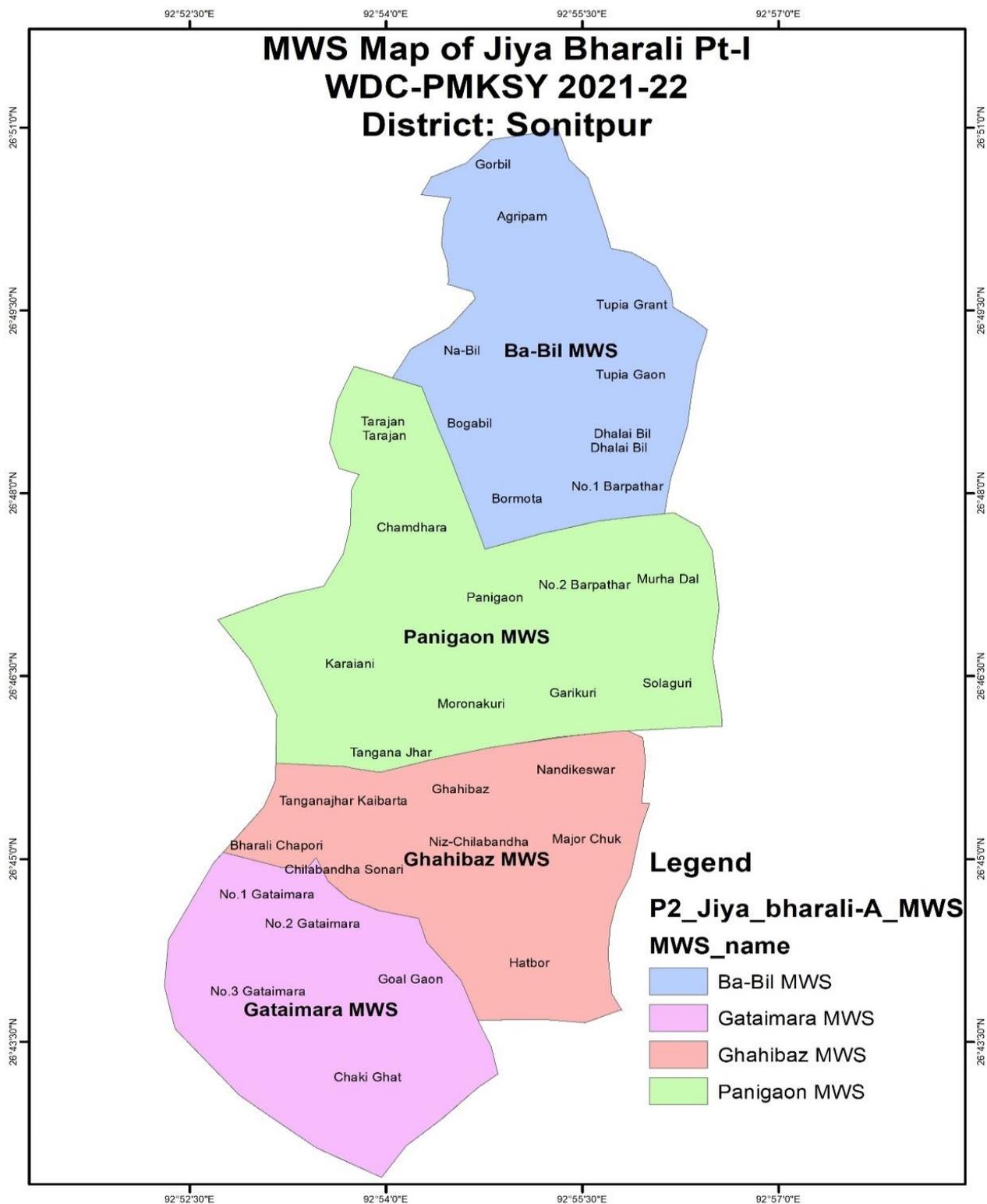
Longitude	94° 54'96.29" E to 92° 11'5.00" E
Latitude	27° 45'86.79" N to 26° 85'88.40"
State	Assam
District	Sonitpur
Sub Division	Tezpur
Block	Na Duar
Panchayat	Dakhin Moradhol,Uttar Silabandha,Maidhya Silabandha,Dakhin Silabandha and Pub Moradhal
Villages	Annexure – I (A)
Approach Road	Chakighat Road to Towbhanga Road

Date Source : Field Survey

Sonitpur-WDC-1/2021-22 Location Map



MWS Map of Jiya Bharali Pt-I WDC-PMKSY 2021-22 District: Sonitpur



Details of the types of areas covered under the project

Location of Watershed :

The Jiya Bharali Watershed is located in central part of Sonitpur District. The project area lines between 94° 54'96.29" E to 92° 11'5.00" E longitude and 27° 45'86.79" N to 26° 85'88.40" latitude. The watershed covers 32 Nos. of villages under Na Duar Development Block. The total project area of the watershed is about 7814 Ha.

Physiography:

The physiography of the project area is characterized by undulating plain with numbers of streams. The ecology of the Watershed is unique and there is a constant threat of flood and erosion. The Watershed area is vast Water Resources like Wetland, Drainage/stream etc. A number of marshy lands are found in the area.

Climate :

The climate of Project area is typically "tropical monsoon rainfall" type with high levels of humidity and heavy rainfall. One can enjoy a moderate climate all throughout the year, with warm summers and mild winters. The sub-tropical climate of the area is characterized by high rainfall and high humidity and is worked by three dominant seasons, viz. winter (November to February), summer (March to May) and monsoon (June to October).

Drainage :

Drainage area is drained by one major perennial streams namely Bharali. The upstream of Dikarai River originated in the hills of Arunachal Pradesh and flows through the Watershed from North to South and connected with River Brahmaputra near Towbhanga, Samdhara, Tupias Grant, Panigaon, Maranakuri, Chenichuk, Chakigaon, etc. Another two small streams flows through the Watershed Gotaimari and Bharali Chapari.

Soil :

The general and average Soil character of cultivable land in the Watershed is mainly alluvial and composed of mixture of sand (course to loamy). In the Project area basically there are three types of taxonomic classification of are found with the watershed namely : Fine Silty, Typic Udifluvents, Coarse-Silty, and Fine Loamy Typic Dystrochrepts.

Economy :

The economy of the Project Area is depends on agriculture. Paddy is the major crop and it cultivated in kharif and land remains uncultivated for rest of the year. The farming system is traditional. Low agricultural productivity, lack of irrigation facilities. Livestock rearing handloom and weaving are other important activities of the Watershed Areas.

Table No. : 2.2 Land Details

S. No.	Name of watersheds	Names of villages	Geographical Area of the village	Forest Area	Land under agricultural use	Rainfed area	Permanent pastures	Wasteland		Treatable area
								Cultivable	Non-cultivable	
1	Na Bil	BOGABIL	218	16.00	183.12	136.03	11.88	7.00	0.00	143.03
2	Pani Gaon	CMDRA	264	5.00	221.76	152.00	0.00	13.00	24.24	165.00
3	Pani Gaon	Moronakuri	397	0.00	333.48	235.00	3.00	23.00	37.52	258.00
4	Pani Gaon	KARAIANI	328	0.00	275.52	195.00	18.00	12.00	22.48	207.00
5	Na Bil	TUPIA GRANT	154	0.00	129.36	96.10	5.00	0.00	19.64	96.10
6	Na Bil	TUPIA GAON	244	0.00	204.96	142.00	0.00	21.84	17.20	163.84
7	Na Bil	AGRIPAM	109	4.00	91.56	68.02	10.00	3.44	0.00	71.46
8	Na Bil	GORBIL	223	9.00	187.32	139.15	0.00	11.00	15.68	150.15
9	Na Bil	DLAI BIL	278	0.00	233.52	166.00	7.00	35.92	1.56	201.92
10	Gataimara	Cki Gt	69	2.00	57.96	43.06	0.00	4.00	5.04	47.06
11	Pani Gaon	TARAJAN	684	4.00	574.56	296.00	0.00	34.00	71.44	330.00
12	Na Bil	NA-BIL	322	7.00	270.48	190.00	0.00	19.25	25.27	209.25
13	Na Bil	BORMOTA	238	2.00	199.92	148.51	0.00	22.01	14.07	170.52
14	Na Bil	NO.1 BARPATR	126	0.00	105.84	78.62	5.00	15.16	0.00	93.78
15	Pani Gaon	MUR DAL	351	0.00	294.84	209.68	12.00	25.25	18.91	234.93
16	Pani Gaon	NO.2 BARPATR	216	0.00	181.44	134.78	0.00	21.86	12.70	156.64
17	Pani Gaon	PANIGAON	282	7.00	236.88	153.00	0.00	16.00	22.12	169.00
18	Pani Gaon	Solaguri	207	0.00	173.88	129.17	0.00	28.00	5.12	157.17
19	Pani Gaon	Garikuri	204	5.00	171.36	127.30	0.00	18.00	9.64	145.30
20	Pani Gaon	TANGANA JR	120	4.00	100.80	74.88	0.00	5.00	10.20	79.88
21	Ghibaz	Nandikeswar	202	3.00	169.68	126.06	3.00	12.00	14.32	138.06

22	Ghibaz	Ghibaz	155	2.00	130.20	96.72	0.00	6.15	16.65	102.87
23	Ghibaz	Tanganajr Kaibarta	259	6.00	217.56	161.62	0.00	18.00	17.44	179.62
24	Ghibaz	Major Chuk	313	6.00	262.92	165.00	5.00	17.00	22.08	182.00
25	Ghibaz	Niz- Chilaband	136	3.00	114.24	84.86	0.00	7.00	11.76	91.86
26	Ghibaz	Brali Cpori	236	1.00	198.24	147.26	9.00	0.00	27.76	147.26
27	Ghibaz	Chilaband Sonari	201	6.00	168.84	125.42	0.00	9.00	17.16	134.42
28	Gataimara	No.1 Gataimara	330	8.00	277.20	186.00	0.00	19.00	25.80	205.00
29	Ghibaz	tbor	244	6.00	204.96	152.26	0.00	12.00	21.04	164.26
30	Gataimara	No.2 Gataimara	227	5.00	190.68	123.00	18.32	13.00	0.00	136.00
31	Gataimara	Goal Gaon	376	5.00	315.84	187.00	0.00	15.00	40.16	202.00
32	Gataimara	No.3 Gataimara	101	2.20	84.84	63.02	0.00	3.60	10.36	66.62
Total			7814	118.20	6563.76	4532.52	107.2	467.48	557.36	5000.00

Table No. 2.3: Details of the types of areas covered under the project

1 Sl. No.	2 Name of village	3 No. of beneficiaries covered				
		MF	SF	LF	Landless	Total
1	BOGABIL	313	188	5	26	532
2	CHAMDHARA	181	53	2	22	258
3	Moronakuri	43	0	0	4	47
4	KARAIANI	145	46	1	15	207
5	TUPIA GRANT	109	51	4	7	171
6	TUPIA GAON	171	68	2	22	263
7	AGRIPAM	220	35	2	24	281
8	GORBIL	299	212	4	25	540
9	DHALAI BIL	165	141	1	14	321
10	Chaki Ghat	119	85	1	13	218
11	TARAJAN	25	2	0	0	27
12	NA-BIL	260	70	2	24	356
13	BORMOTA	186	126	1	16	329
14	NO.1 BARPATHAR	150	30	0	11	191
15	MURHA DAL	131	20	0	15	166
16	NO.2 BARPATHAR	129	24	1	13	167
17	PANIGAON	208	26	2	26	262
18	Solaguri	38	8	0	7	53
19	Garikuri	16	0	0	0	16
20	TANGANA JHAR	15	7	0	0	22
21	Nandikeswar	266	26	5	25	322
22	Ghahibaz	21	4	0	0	25
23	Tanganajhar Kaibarta	4	0	0	0	4

24	Major Chuk	200	36	4	26	266
25	Niz-Chilabandha	35	1	0	0	36
26	Bharali Chapori	7	0	0	0	7
27	Chilabandha Sonari	5	1	0	0	6
28	No.1 Gataimara	76	0	1	13	90
29	Hatbor	139	13	2	22	176
30	No.2 Gataimara	1	0	0	0	1
31	Goal Gaon	46	25	0	0	71
32	No.3 Gataimara	11	21	0	0	32
Total		3734	1319	40	340	5463

Data source : Field survey

Table No. 2.4: Details of Agro-climatic condition

1	2	3	4	5	6		7	
Sl. No.	Name of the Project	Name of the Agro-climatic zone covers project area	Area in ha	Names of the villages	Major soil types		Major crops	
					a) Type	b) Area in ha	a) Name	b) Area in ha
1.	Sonitpur-1/WDC/2021-22	North Bank Plains Zone	218.00 Ha	BOGABIL	Fine (Fluventic Dystrochrepts), Coarse-Loamy (Molic Udifluvents)	218.00	Paddy	112.00
2.			264.00 Ha	CHAMDHARA	Fine (Fluventic Dystrochrepts), Coarse-Loamy (Molic Udifluvents)	264.00	Paddy	115.00
3.			397.00 Ha	Moronakuri	Fine (Fluventic Dystrochrepts), Coarse-Loamy (Molic Udifluvents)	397.00	Paddy	185.00
4.			328.00 Ha	KARAIANI	Fine (Fluventic Dystrochrepts), Coarse-Loamy (Molic Udifluvents)	328.00	Paddy	205.00
5.			154.00 Ha	TUPIA GRANT	Fine (Fluventic Dystrochrepts), Coarse-Loamy (Molic Udifluvents)	154.00	Paddy	85.00
6.			244.00 Ha	TUPIA GAON	Fine (Fluventic Dystrochrepts), Coarse-Loamy (Molic Udifluvents)	244.00	Paddy	115.00
7.			109.00 Ha	AGRIPAM	Fine (Fluventic Dystrochrepts), Coarse-Loamy (Molic Udifluvents)	109.00	Paddy	62.00
8.			223.00 Ha	GORBIL	Fine (Fluventic Dystrochrepts), Coarse-Loamy (Molic Udifluvents)	223.00	Paddy	112.00
9.			278.00	DHALAI BIL	Fine (Fluventic Dystrochrepts), Coarse-Loamy (Molic Udifluvents)	278.00	Paddy	95.00

			Ha.		Udifluvents)			
10.			69.00 Ha	Chaki Ghat	Fine (Fluventic Dystrochrepts), Coarse-Loamy (Molic Udifluvents), Coarse- Loamy (Lithic Dystrochrepts)	69.00	Paddy	35.00
11.			684.00 Ha.	TARAJAN	Fine (Fluventic Dystrochrepts), Coarse-Loamy (Molic Udifluvents), Coarse- Loamy (Lithic Dystrochrepts)	684.00	Paddy	284.00
12.			322.00 Ha	NA-BIL	Fine (Fluventic Dystrochrepts), Coarse-Loamy (Molic Udifluvents)	322.00	Paddy	115.00
13.	Sonitpur-1/WDC/2021-22	North Bank Plains Zone	238.00 Ha	BORMOTA	Fine (Fluventic Dystrochrepts), Coarse-Loamy (Molic Udifluvents)	238.00	Paddy	95.00
14.			126.00 Ha	NO.1 BARPATHEAR	Fine (Fluventic Dystrochrepts), Coarse-Loamy (Molic Udifluvents)	126.00	Paddy	52.00
15.			351.00 Ha	MURHA DAL	Fine (Fluventic Dystrochrepts), Coarse-Loamy (Molic Udifluvents)	351.00	Paddy	125.00
16.			216.00 Ha	NO.2 BARPATHEAR	Fine (Fluventic Dystrochrepts), Coarse-Loamy (Molic Udifluvents)	216.00	Paddy	115.00
17.			282.00 Ha	PANIGAON	Fine (Fluventic Dystrochrepts), Coarse-Loamy (Molic Udifluvents)	282.00	Paddy	124.00
18.			207.00 Ha	Solaguri	Fine (Fluventic Dystrochrepts), Coarse-Loamy (Molic Udifluvents)	207.00	Paddy	142.00
19.			204.00 Ha	Garikuri	Fine (Fluventic Dystrochrepts), Coarse-Loamy (Molic Udifluvents)	204.00	Paddy	105.00
20.			120.00 Ha	TANGANA JHAR	Fine (Fluventic Dystrochrepts), Coarse-Loamy (Molic Udifluvents), Coarse- Loamy (Lithic Dystrochrepts)	120.00	Paddy	42.00
21.			202.00 Ha	Nandikeswar	Fine (Fluventic Dystrochrepts), Coarse-Loamy (Molic Udifluvents), Coarse- Loamy (Lithic Dystrochrepts)	202.00	Paddy	85.00
22.			155.00	Ghahibaz	Fine (Fluventic Dystrochrepts), Coarse-Loamy (Molic	155.00	Paddy	35.00

			Ha		Udifluvents), Coarse- Loamy (Lithic Dystrochrepts)			
23.			259.00 Ha	Tanganajhar Kaibarta	Fine (Fluentic Dystrochrepts), Coarse-Loamy (Molic Udifluvents), Coarse- Loamy (Lithic Dystrochrepts)	259.00	Paddy	115.00
24.			313.00 Ha	Major Chuk	Fine (Fluentic Dystrochrepts), Coarse-Loamy (Molic Udifluvents), Coarse- Loamy (Lithic Dystrochrepts)	313.00	Paddy	142.00
25.	Sonitpur-1/WDC/2021-22	North Bank Zone	136.00 Ha	Niz- Chilabandha	Fine (Fluentic Dystrochrepts), Coarse-Loamy (Molic Udifluvents), Coarse- Loamy (Lithic Dystrochrepts)	136.00	Paddy	85.00
26.			236.00 Ha	Bharali Chapori	Fine (Fluentic Dystrochrepts), Coarse-Loamy (Molic Udifluvents), Coarse- Loamy (Lithic Dystrochrepts)	236.00	Paddy	152.00
27.			201.00 Ha	Chilabandha Sonari	Fine (Fluentic Dystrochrepts), Coarse-Loamy (Molic Udifluvents), Coarse- Loamy (Lithic Dystrochrepts)	201.00	Paddy	95.00
28.			330.00 Ha	No.1 Gataimara	Fine (Fluentic Dystrochrepts), Coarse-Loamy (Molic Udifluvents), Coarse- Loamy (Lithic Dystrochrepts)	330.00	Paddy	151.00
29.			244.00 Ha	Hatbor	Fine (Fluentic Dystrochrepts), Coarse-Loamy (Molic Udifluvents), Coarse- Loamy (Lithic Dystrochrepts)	244.00	Paddy	142.00
30.			227.00 Ha	No.2 Gataimara	Fine (Fluentic Dystrochrepts), Coarse-Loamy (Molic Udifluvents), Coarse- Loamy (Lithic Dystrochrepts)	227.00	Paddy	115.00
31.			376.00 Ha	Goal Gaon	Fine (Fluentic Dystrochrepts), Coarse-Loamy (Molic Udifluvents), Coarse- Loamy (Lithic Dystrochrepts)	376.00	Paddy	175.00
32.			101.00 Ha	No.3 Gataimara	Fine (Fluentic Dystrochrepts), Coarse-Loamy (Molic Udifluvents), Coarse- Loamy (Lithic Dystrochrepts)	101.00	Paddy	42.00

Data source : From field survey

Table No. 2.5 Details of flood and drought in the project area

1	2	3	4		5
Sl. No.	Particulars	Villages	Periodicity		Not affected
			Annual	Any other (Zonation of Flood)	
1	Flood	No. of villages 32 Nos.			
		Name(s) of villages			
2		BOGABIL	7-8 Times	High	
3		CHAMDHARA	7-8 Times	High	
4		Moronakuri	7-8 Times	High	
5		KARAIANI	7-8 Times	High	
6		TUPIA GRANT	7-8 Times	High	
7		TUPIA GAON	7-8 Times	High	
8		AGRIPAM	7-8 Times	High	
9		GORBIL	7-8 Times	High	
10		DHALAI BIL	7-8 Times	High	
11		Chaki Ghat	4-5 Times	Low	
12		TARAJAN	7-8 Times	High	
13		NA-BIL	9-10 Times	Very High	
14		BORMOTA	5-6 Times	Moderate	
15		NO.1 BARPATHAR	7-8 Times	High	
16		MURHA DAL	7-8 Times	High	
17		NO.2 BARPATHAR	7-8 Times	High	
18		PANIGAON	7-8 Times	High	
19		Solaguri	6-7 Times	Moderate	
20		Garikuri	7-8 Times	High	
21		TANGANA JHAR	7-8 Times	High	
22		Nandikeswar	7-8 Times	High	

23		Ghahibaz	6-7 Times	Moderate	
24		Tanganajhar Kaibarta	6-7 Times	Moderate	
25		Major Chuk	6-7 Times	Moderate	
26		Niz-Chilabandha	6-7 Times	Moderate	
27		Bharali Chapori	9-10 Times	Very High	
28		Chilabandha Sonari	7-8 Times	High	
29		No.1 Gataimara	7-8 Times	High	
30		Hatbor	7-8 Times	High	
31		No.2 Gataimara	7-8 Times	High	
32		Goal Gaon	7-8 Times	High	
33		No.3 Gataimara	7-8 Times	High	

Date Source : Field Survey

Table No. 2.6: Details of soil erosion in the project area

1	2	3	4	5		
Cause	Type of erosion	Area affected (ha)	Run off (mm/ year)	Average soil loss (Tonnes/ ha/ year)		
Water erosion						
Na Bill MWS	Sheet	395	1100	Moderate (5 to 10 Ton)		
	Rill	25				
	Gully	0				
Wind erosion		0				
Water erosion						
Ghahibaz MWS	Sheet	385		1100	Moderate (10 to 15 Ton) Moderately Slight (5 to 10 Ton)	
	Rill	22				
	Gully	8				
Wind erosion		0				
Water erosion						
Gataimara MWS	Sheet	295	1100		Slight (<5 Ton), Moderate (10-15 Ton) Moderately Slight (5 to 10 Ton)	
	Rill	15				
	Gully	4				
Wind erosion		0				
Water erosion						
Panigaon MWS	Sheet	348		1100	Slight (<5 Ton), Moderate (10-15 Ton) Moderately Slight (5 to 10 Ton)	
	Rill	22				
	Gully	0				
Wind erosion		0				
TOTAL		1519				

Date Source : Field Survey

Table No. 2.7 Details of the Soil pH

Name of the Villages	Sample no	Soil Ph	Soil Type
BOGABIL		Slightly Acidic (5.5 – 6.5)	Fine (Fluventic Dystrochrepts), Coarse-Loamy (Molic Udifluvents)
CHAMDHAR A		Slightly Acidic (5.5 – 6.5)	Fine (Fluventic Dystrochrepts), Coarse-Loamy (Molic Udifluvents)
Moronakuri		Slightly Acidic (5.5 – 6.5)	Fine (Fluventic Dystrochrepts), Coarse-Loamy (Molic Udifluvents)
KARAIANI		Slightly Acidic (5.5 – 6.5)	Fine (Fluventic Dystrochrepts), Coarse-Loamy (Molic Udifluvents)
TUPIA GRANT		Slightly Acidic (5.5 – 6.5)	Fine (Fluventic Dystrochrepts), Coarse-Loamy (Molic Udifluvents)
TUPIA GAON		Slightly Acidic (5.5 – 6.5)	Fine (Fluventic Dystrochrepts), Coarse-Loamy (Molic Udifluvents)
AGRIPAM		Slightly Acidic (5.5 – 6.5)	Fine (Fluventic Dystrochrepts), Coarse-Loamy (Molic Udifluvents)
GORBIL		Slightly Acidic (5.5 – 6.5)	Fine (Fluventic Dystrochrepts), Coarse-Loamy (Molic Udifluvents)
DHALAI BIL		Slightly Acidic (5.5 – 6.5)	Fine (Fluventic Dystrochrepts), Coarse-Loamy (Molic Udifluvents)
Chaki Ghat		Slightly Acidic (5.5 – 6.5)	Fine (Fluventic Dystrochrepts), Coarse-Loamy (Molic Udifluvents), Coarse- Loamy (Lithic Dystrochrepts)
TARAJAN		Slightly Acidic (5.5 – 6.5)	Fine (Fluventic Dystrochrepts), Coarse-Loamy (Molic Udifluvents), Coarse- Loamy (Lithic Dystrochrepts)
NA-BIL		Slightly Acidic (5.5 – 6.5)	Fine (Fluventic Dystrochrepts), Coarse-Loamy (Molic Udifluvents)
BORMOTA		Slightly Acidic (5.5 – 6.5)	Fine (Fluventic Dystrochrepts), Coarse-Loamy (Molic Udifluvents)
NO.1 BARPATHAR		Slightly Acidic (5.5 – 6.5)	Fine (Fluventic Dystrochrepts), Coarse-Loamy (Molic Udifluvents)
MURHA DAL		Slightly Acidic (5.5 – 6.5)	Fine (Fluventic Dystrochrepts), Coarse-Loamy (Molic Udifluvents)
NO.2 BARPATHAR		Slightly Acidic (5.5 – 6.5)	Fine (Fluventic Dystrochrepts), Coarse-Loamy (Molic Udifluvents)
PANIGAON		Slightly Acidic (5.5 – 6.5)	Fine (Fluventic Dystrochrepts), Coarse-Loamy (Molic Udifluvents)
Solaguri		Slightly Acidic (5.5 – 6.5)	Fine (Fluventic Dystrochrepts), Coarse-Loamy (Molic Udifluvents)

Garikuri	Slightly Acidic (5.5 – 6.5)	Fine (Fluventic Dystrachrepts), Coarse-Loamy (Molic Udifluvents)
TANGANA JHAR	Slightly Acidic (5.5 – 6.5)	Fine (Fluventic Dystrachrepts), Coarse-Loamy (Molic Udifluvents), Coarse-Loamy (Lithic Dystrachrepts)
Nandikeswar	Slightly Acidic (5.5 – 6.5)	Fine (Fluventic Dystrachrepts), Coarse-Loamy (Molic Udifluvents), Coarse-Loamy (Lithic Dystrachrepts)
Ghahibaz	Slightly Acidic (5.5 – 6.5)	Fine (Fluventic Dystrachrepts), Coarse-Loamy (Molic Udifluvents), Coarse-Loamy (Lithic Dystrachrepts)
Tanganajhar Kaibarta	Slightly Acidic (5.5 – 6.5)	Fine (Fluventic Dystrachrepts), Coarse-Loamy (Molic Udifluvents), Coarse-Loamy (Lithic Dystrachrepts)
Major Chuk	Slightly Acidic (5.5 – 6.5)	Fine (Fluventic Dystrachrepts), Coarse-Loamy (Molic Udifluvents), Coarse-Loamy (Lithic Dystrachrepts)
Niz- Chilabandha	Slightly Acidic (5.5 – 6.5)	Fine (Fluventic Dystrachrepts), Coarse-Loamy (Molic Udifluvents), Coarse-Loamy (Lithic Dystrachrepts)
Bharali Chapori	Slightly Acidic (5.5 – 6.5)	Fine (Fluventic Dystrachrepts), Coarse-Loamy (Molic Udifluvents), Coarse-Loamy (Lithic Dystrachrepts)
Chilabandha Sonari	Slightly Acidic (5.5 – 6.5)	Fine (Fluventic Dystrachrepts), Coarse-Loamy (Molic Udifluvents), Coarse-Loamy (Lithic Dystrachrepts)
No.1 Gataimara	Slightly Acidic (5.5 – 6.5)	Fine (Fluventic Dystrachrepts), Coarse-Loamy (Molic Udifluvents), Coarse-Loamy (Lithic Dystrachrepts)
Hatbor	Slightly Acidic (5.5 – 6.5)	Fine (Fluventic Dystrachrepts), Coarse-Loamy (Molic Udifluvents), Coarse-Loamy (Lithic Dystrachrepts)
No.2 Gataimara	Slightly Acidic (5.5 – 6.5)	Fine (Fluventic Dystrachrepts), Coarse-Loamy (Molic Udifluvents), Coarse-Loamy (Lithic Dystrachrepts)
Goal Gaon	Slightly Acidic (5.5 – 6.5)	Fine (Fluventic Dystrachrepts), Coarse-Loamy (Molic Udifluvents), Coarse-Loamy (Lithic Dystrachrepts)
No.3 Gataimara	Slightly Acidic (5.5 – 6.5)	Fine (Fluventic Dystrachrepts), Coarse-Loamy (Molic Udifluvents), Coarse-Loamy (Lithic Dystrachrepts)

Note: Fine Loamy (Fluvaquentic Dystrachrepts) locally known as Old Alluvial Soil

Date Source : GIS Data, Field Survey

Table No.2.7.1 Climatic Condition

Sl No	Year (2020)/Month	Average Monthly Rain fall (in mm)	Average Annual rainfall (in mm) preceding 5 years	Temp(°C)		Wind Velocity	Open pan evaporation (mm per day)	Relative Humidity(RH)	Average Annual run off (mm/year)
				Max	Min				
1.	January	11.50	1809	24.20	11.50		31.50	52	1100
2.	February	13.30		25.10	13.20		50.80	49	
3.	March	16.10		28.50	16.45		71.50	43	
4.	April	22.40		31.20	22.30		69.10	65	
5.	May	23.20		32.20	24.10		94.20	68	
6.	June	280.50		32.84	26.50		91.40	69	
7.	July	265.20		33.20	26.00		92.50	70	
8.	August	185.00		33.25	25.00		78.20	70	
9.	September	85.00		31.20	24.10		92.50	71	
10.	October	52.00		31.40	23.20		67.20	68	
11.	November	16.10		28.24	17.50		43.00	62	
12.	December	0.70		26.50	13.20		29.50	62	

Date Source : GIS Data, Field Survey

Table No.-2.8 Physiographic Features

Elevation(MSL)	Slope Range(%)	Order of Watershed	Major Stream	Toposequence (Soil series)	Average annual soil loss(Ton / hectare/year)
Maximum – 80-81 Mtr Minimum – 71-74 Mtr Average – 73-76 Mtr	Maximum Slope – 1.60 % to 5.4 % Average Slope – 0.3 % to 1.0 %	1 st	Jiyabharali River, Dikarai River, Deuri River, Pach Mukh	Fine (Fluventic Dystrochrepts), Coarse-Loamy (Molic Udifluvents), Coarse- Loamy (Lithic Dystrochrepts)	Moderate (5 to 10 Ton)

Data source : From field survey

Table No. 2.9 Watershed characteristics

Shape index of the watershed	Length of main stream	Drainage density	Average slope	Watershed relief	Perimeter of the watershed
	(Jiyabharali River) 264 Km	0.21	0.60 %	Plain	

Data source : From field survey

CHAPTER – 3

BASE LINE INFORMATION OF WATERSHED

Table No. 3.1: Demographic features:

1	2	3	4	5
S.No	Feature	Male	Female	Total
1	Population	13368	12396	25764
	SC	985	923	1908
	ST	715	682	1397
	Others	11668	10797	22459
2	Children(0-14 years)	1428	1484	2912
3	Sex Ratio (Female per Thousand)	970		
4	Literacy	73.03 %	68.78 %	70.09
	Literates	9763	8527	18290
	Illiterates	3605	3889	7494
5	Work Force			
	Agriculture	4784	1691	6475
	Industrial/Business	1528	584	2112
	Service	852	431	1283
6	Birth Rate	21.10/1000		
7	Death Rate	6.40/1000		

Data source : From Field Survey, Census Data 2011, District Handbook

Table No. 3.2: Livestock details:

1	2	3
S.No	Feature	No./ quantity)
1	Milch Animals	
	Cows	3284
	Buffaloes	42
	Goat, sheep	7415
2	Draft Animals	
	Ox	0
	He Buffalo	0
3	Others	
	Poultry	1246
	Piggery	528
4	Total Milk production from milch animals (ltrs/day)	854
5	Fodder Availability	
	Dry (Abundant/Sufficient/ Scarce)	Sufficient
	Green (Abundant/Sufficient/ Scarce)	Scarce (Occasionally)
6	Fuel wood Availability (Abundant/Sufficient/Scarce)	Scarce

Data source : From field survey

Table No.3.3:Socio- economic status:

1	2	3	4	5						6			
S. No	Type	Total HHs	No. of BPL HHs	Land Holding (Ha)						Annual Gross Income (Rs.)			
				Rain fed			Irrigated			SC	ST	Others	Total
				SC	ST	Others	SC	ST	Others				
1	Marginal	3734	1246	115	142	2515	25	42	528	15000	15000	17000	47000
2	Small Farmers	1319		95	124	985	23	25	115	25000	25000	25000	75000
3	Big farmers	40		25	24	16	14	25	85	50000	50000	65000	165000
4	Landless	340	340										
	Total	5433	1586	235	290	3516	62	92	728	90000	90000	107000	287000

Data source : From field survey

Table No. 3.4: Migration Details:

1	2			3	4	5	6	7
Sl. No.	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.)
	M	F	Total					
1.	445	42	487	100	Lack of in sufficient employment generation, for better opportunity, Lack of Irrigation facilities, Single crop area, etc.	02 Km to 50 Km	Daily Labour, Business, Vegetable Vendor	Average Rs 35,000.00 per Annum

Data source : From field survey

Table No. 3.5: Details of Community Based Organizations existing in the watershed village:

1	2	3				4			5			6			7			8			9			
S. No.	Type of Group	Total no. of CBOs				No. of members			No. of ST in each category			No. of SC in each category			No. of Others in each category			No. of BPL in each category			Bank linkage			
		With only Men	With only Women	With both	Total	M	F	Total	M	F	Total	M	F	Total	M	F	Total	M	F	Total	No. of SHGs	Bank Loan Amount (Rs.)		
1	SHG	25	115	--	140	(i) Landless	151	781	932	17	42	59	22	25	47	125	745	870	168	754	922			
						(ii) MF	65	419	484	22	74	96	16	42	58	42	284	326	65	418	483			
						(iii) SF	35	98	133	2	14	16	2	5	7	34	78	112	0	0	0			
						(iv) LF	14	17	31	4	4	8	2	4	6	8	14	22	0	0	0			
	Total						265	1315	1580	45	134	179	42	76	118	209	1121	1330	233	1172	1405			
2	UGs					(i) Landless	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
						(ii) MF	835	68	903	185	42	227	115	16	131	825	47	872	0	0	0			
						(iii) SF	428	25	453	52	16	68	58	4	62	346	17	363	0	0	0			
						(iv) LF	25	0	25	0	0	0	7	0	7	25	0	25	0	0	0			
	Total						931	1381	2371	58	295	1805	20	200	1196	64	1260	1288	0	0	0			
3	VSS					--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		

4	FG/ FC ¹	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
5	WUA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
6	F-SHG-C	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
7	F-SHG-B	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
8	PG	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
9	PC	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
10	Other related Groups (Specify)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		

VSS: Van Suraksha Samiti, FG: Farmer's Group/ Farmer's Club, WUA: Water User Association, F-SHG: Federation of SHGs (C: at Cluster, B: at Block), PG: Producer's Group, PC: Producer's Cooperative

Data source : From field survey

1

Table No. 3.6: Infrastructure Facilities:

1	2	3	4	5	
S.No	Infrastructure type	No./Quantity	Distance (km)	Status (description)	
1	Educational Institutions				
	Anganwadi	42 Nos.	Average 50-70 KM	Functional	
	Primary School	25 Nos.		-do-	
	Secondary school	7 Nos.		-do-	
	Govt. College	1 Nos.		-do-	
	Vocational Institutions	-			
2	Service Institutions				
	Bank	5 Nos.			Functional
	Post office	4 Nos.		-do-	
	Primary Health Care Center	2 Nos.		-do-	
	Veterinary Center	3 Nos.		-do-	
	Markets/ Village Haat	13 Nos.		-do-	
3	No. of bore wells/pump sets (Functional)	--			
4	No. of Milk collection centers (Union/ Society/ Pvt. Agency/Others)	--			
	Total Quantity of surplus milk	--			
5	Road Connectivity (to main road by an all-weather road) (Yes/No)	Yes			
6	Bus facility (Yes/No)	Yes			
7	No. of HHs provided electricity	17546			
8	No. of HHs with access to drinking water	17546			

9	Access to Agro Industries (Yes/No)	No		
10	Any other facilities (specify-----)			

Data source : From field survey

Table No. 3.7 Land Use Pattern (In Ha.)

1	2	3	4	5	6	7	8	9		10		11	12	13*
S. No	Village	Geographical Area#	Forest Area	Community Land	Land under Non Agriculture Use	Permanent Pastures	Land Under miscellaneous use	Uncultivated Private land		Cultivated area		Net Sown Area	Net Area sown more than once	Gross Cropped Area
								Temporary fallow	Permanent Fallow	Cultivated Rainfed	Cultivated Irrigated			
1	BOGABIL	218.00	16.00	2	185.00	15	20	7.07	0	104	4	108	5	113
2	CHAMDHARA	264.00	0	5	215.43	0	17	62.68	0	71	0	71	0	71
3	Moronakuri	397.00	0	0	321.25	3	14	43.58	0	161	61	222	62	284
4	KARAIANI	328.00	0	0	285.00	18	25	68.62	0	168	34	202	34	236
5	TUPIAGRANT	154.00	0	0	125.54	5	32	0	0	132	16	148	16	164
6	TUPIAGAON	244.00	0	14	205.00	0	49	21.84	0	151	24	175	25	200
7	AGRIPAM	109.00	4.00	6	95.12	10	42	14.73	0	68	17	85	17	102
8	GORBIL	223.00	14.00	8	187.00	0	41	0	0	128	8	136	8	144
9	DHALAIBIL	278.00	0	13	224.00	7	71	35.92	0	104	62	166	62	228
10	Chaki Ghat	69.00	2	25	52.00	0	0	0	0	25	7	32	25	57
11	TARAJAN	684.00	4	0	292.62	0	2	11.62	0	265	34	299	32	331

12	NA-BIL	322.00	0	16	265.00	0	8	0.42	0	115	42	157	0	157
13	BORMOT A	238.00	0	0	191.42	0	4	42.03	0	185	0	185	16	201
14	NO.1 BARPAT HAR	126.00	0	0	87.00	5	14	19.37	0	85	16	101	42	143
15	MURHA DAL	351.00	0	4	321.25	12	52	25.25	0	115	25	140	52	192
16	NO.2 BARPAT HAR	216.00	0	2	167.42	0	15	21.86	0	95	42	137	65	202
17	PANIGAO N	282.00	0	0	122.00	0	0	91.9	0	115	24	139	34	173
18	Solaguri	207.00	0	7	186.86	0	32	28	0	104	52	156	35	191
19	Garikuri	204.00	0	0	164.68	0	25	30	0	105	25	130	25	155
20	TANGAN A JHAR	120.00	0	25	53.00	0	16	0	0	85	22	107	22	129
21	Nandikes war	202.00	0	16	185.90	3	14	12	0	142	24	166	16	182
22	Ghahibaz	155.00	0	7	13.54	0	25	3.15	0	141	42	183	0	183
23	Tanganaj har Kaibarta	259.00	0	4	205.00	0	22	0	0	141	25	166	14	180
24	Major Chuk	313.00	0	0	286.62	5	14	12.42	0	85	42	127	32	159

25	Niz-Chilabandha	136.00	0	0	231.86	0	34	0	0	95	25	120	25	145
26	Bharali Chapori	236.00	0	0	202.44	0	32	0	0	142	52	194	32	226
27	Chilabandha Sonari	201.00	0	0	143.07	0	43	0	0	132	0	132	42	174
28	No.1 Gataimara	330.00	0	0	248.00	0	38	0	0	124	32	156	44	200
29	Hatbor	244.00	0	4	175.00	0	35	0	0	125	42	167	52	219
30	No.2 Gataimara	227.00	0	2	158.00	0	42	85.21	0	142	52	194	16	210
31	Goal Gaon	376.00	0	0	285.00	0	22	0	0	185	85	270	85	355
32	No.3 Gataimara	101.00	0	0	87.00	0	25	0	0	68	16	84	25	109
TOTAL		7814	40	160	5968.02	83	825	637.67	0	3903	952	4855	960	5815

#geographical area here is the area covered under the watershed.

* Column 13 is the summation of column 11 & 12.

Data source : From field survey

Table No. 3.8: Details of Common Property Resources:

1	2	3				4			
S.No	CPR Particulars	Total Area (ha) Area owned/ In possession of				Area available for treatment (ha)			
		Pvt. persons	Govt. (specify dept.)	PRI	Any other (Pl. Specify)	Pvt. persons	Govt. (specify deptt.)	PRI	Any other (Pl. Specify)
1	Wasteland/ degraded land	--	152	--	--	--	152	--	--
2	Pastures	--	--	--	--	--	--	--	--
3	Orchards	--	--	--	--	--	--	--	--
4	Village Forest	521	--	--	--	--	--	--	--
5	Forest	--	40	--	--	--	--	--	--
6	Village Ponds/ Tanks	16	--	--	8	--	--	--	--
7	Community Buildings	--	--	--	7	--	--	--	--
8	Weekly Markets	--	--	--	14	--	--	--	--
9	Permanent markets	14	--	--	--	--	--	--	--
10	Temples/ Places of worship	--	--	--	24	--	--	--	--
11	Others (Pl. specify)	--	--	--	--	--	--	--	--
Total		551	192	0	53	0	152	0	0

Data source : From field survey

Table No. 3.9: Agriculture implements:

1	2	3
S. No	Implements	Nos.
1	Tractor	42
2	Sprayers-manual/ power	68
3	Cultivators/Harrows	7
4	Seed drill	--

Data source : From field survey

Table No. 3.10: Crop Classification

1	2	3
S. No	Crop classification	Area (Ha.)
1	Single crop	4610.36
2	Double crop	1320.40
3	Multiple crop	633.00

Data source : From field survey

Table No. 3.11: Crops & Cropping pattern:

1	2	3	4				5				6			
S. No	Season	Crop sown	Rain fed				Irrigated				Total			
			Area (ha)	Production (Ton/yr)	Productivity (Kgs/ha)	Cost of cultivation (Rs. /ha)	Area (ha)	Production (Ton/yr)	Productivity (Kgs/ha)	Cost of cultivation (Rs. /ha)	Area (ha)	Production (Ton/yr)	Productivity (Kgs/ha)	Cost of cultivation (Rs. /ha)
1	Kharif	Autum Paddy	3541	5362	1500	9000	0	0	0	0	3541	5362	1500	9000
2	Rabi	Winter Paddy	0	0	1500	9000	625	942	1500	15000	625	942	3000	24000
		Mustard	52	43	750	3700	0	0	0	0	52	43	750	38000
		Black Gram	25	16	660	3400	0	0	0	0	25	16	660	3400
		Lentil	34	15	450	3400	0	0	0	0	34	15	450	3400
		Green Gram	22	14	490	3400	0	0	0	0	22	14	490	3400
		Vegetables	0	0	0	0	85	43	500	20000	85	43	500	20000
3	Summer	Summer Paddy	825	1762	2400	9000	0	0	0	0	825	1762	2400	9500
		Jute	52	97	2060	9000	0	0	0	0	52	97	2060	9500
	Total		4551	7309	9810		710	985	2000		5261	8249	11810	

Data source : From field survey

Table No. 3.12: Land capability Classification

1	2	3		4					5				6			Land class				
S.No	Land type	Total Area (ha)	Soil Texture*	Based on Depth (cms)- (mention area in ha)					Based on Slope (%) (mention area in ha)				Erosion (mention area in ha)							
				V. Shallow (0.75)	Shallow (7.5-22.5)	Moderate deep (22.5-45.00)	Deep (45.0-90.0)	Very. Deep (>90)	Nearly Level (0-2)	Moderate slope (2-6)	Strong slope (6-15)	Steep (>15)	Water		Wind					
													Sheet	Rill	Gully					
1	III W	6118	Coarse Loamy	0	0	0	1804	0	1804	0	0	0	7681.90	120	12.10					
2	III WS	175	Coarse Loamy	0	0	0	2138	0	0	2138	0	0								
3	IV ES	132	Coarse Loamy	0	0	0	754	0	0	0	754	0								

* Soil texture (sandy-clay, clayey, loamy-clay, gravel)

Data source : From field survey

Table No.3.13: Irrigation facilities:

1	2	3	4
S.No	Type of the Source	Nos.	Command area (in ha)
1	Ponds	42	--
2	Open wells	22	--
3	Bore wells	58	--
4	Canal irrigation	--	185
5	Natural spring head	--	--

Data source : From field survey

Table No. 3.14: Status of water table:

1	2	3	4	5	6	7	8
S.No	Source (open well)**	Plot No of the source	Name of the Owner*	Date of recording	Depth of water table from ground level (in mts)	Source located at (ridge/middle/valley)	Remarks
1	Deep Tubewell	SC140016957	Bhuyanpara Maszid.		5.2	Valley	Below Permissible Limit Nitrate[4.20 mg/l],Fluoride[0.25 mg/l],Chloride[5.60 mg/l],pH[6.80 pH],Alkalinity[61.00 mg/l] Above Permissible LimitTurbidity[18.00 NTU]
2		SC140016940	Sila Gosai Than.		4.5	Valley	Below Permissible Limit Nitrate[4.20 mg/l],Fluoride[0.23 mg/l],Chloride[4.60 mg/l],pH[6.80 pH],Alkalinity[79.00 mg/l] Above

							Permissible LimitTurbidity[18.00 NTU]
3		SC140016971	Basanta Hazarika.		4.5	Valley	Below Permissible Limit Nitrate[4.50 mg/l],Fluoride[0.13 mg/l],Chloride[5.10 mg/l],pH[6.60 pH],Alkalinity[60.00 mg/l] Above Permissible LimitTurbidity[18.00 NTU]
4	Openwell	P0002033036	Bunanda Kurmi		4.5	Valley	Below Permissible LimitIron[0.30 mg/l],Nitrate[20.00 mg/l],pH[7.00 pH],Alkalinity[78.00 mg/l]
5	Openwell	P0002033037	Guniram Baruah		4	Valley	Below Permissible LimitIron[0.30 mg/l],pH[7.00 pH],Alkalinity[50.00 mg/l]
6	Openwell	P0002033046	Dinesh Ch. Gogoi		5.2	Valley	Above Permissible LimitIron[1.41 mg/l] Below Permissible LimitNitrate[5.10 mg/l],Fluoride[0.25 mg/l],Chloride[5.60 mg/l],pH[7.80 pH],Alkalinity[72.00 mg/l]

Source: National Rural Drinking Water Programme, Govt. of India

**** Identify at least five representative open wells in the ridge/middle/valley portion. Collect the data at the time of DPR and maintain a register every Quarter**

Data source : From field survey

Table No. 3.15: Assessment of drinking water facility*:

1	2	3	4	5
S.No	Item	Units	Quantity	Source
1	Drinking water requirement	Ltrs/day	76128	River, Stream, Drainage Channel, Tube Well, Pond, etc.
2	Present availability of drinking water	Ltrs/day	68173	
3	No. of drinking water sources available	Nos	3851	
a)	Functional	Nos	3851	
b)	Need Repairing	Nos		
c)	Defunct	Nos		
4	Short fall if any	Ltrs/day	7955	
5	No. of families getting drinking water from out side the Micro watershed area	Nos		
6	Requirement of new drinking water sources (if any)	Nos.		

* based on the observation from the field, PHE

Table No. 3.16: Surface water resources

1	2	3	4	5
S.No	Type of water resource	Nos	Area irrigated (Ha)	Storage capacity (Cu.m)
1	Tank			
2	Pond	25	--	34152
3	Lake			
4	Check dam			
5	Percolation tank			
6	Channel/Canal	25	--	214620
7	Any others (Beel)	4		42512

Data source : From field survey

Table No. 3.17 Ground Water Structures to be repaired.

Sl.No	Type of structure	No. available			
		No. to be Repaired	No. to be rejuvenated	No. with no interventions required	Total
1.	Tube Well	5	2	15	22
2.	Ring Well	2	--	13	15
Total		7	2	28	37

Source : From Field data

Table No. 3.18: Existing Water Saving Practices:

Name of the Major Crop	Area (Ha)				Current water Saving status as against flood irrigation. (Cu.m)
	Under water saving devices\$	Under water conserving agronomic practices#	Any other (Farm Bunding, Farm Pond, Drop Spillway))	Total	
Kharif Paddy	--	356	--	356	--
Rabi Paddy	--	2411	--	2411	--
Kharif Veg.	--	62	--	62	--
Rabi Veg.	--	185	--	185	--
Summer Veg.	--	42	--	42	--
Potato	--	62	--	62	--

\$: Sprinklers, Drip, PVC Pipe, etc.,

#: Vermi compost, organic manuring, check basin, alternate furrow, Ridges and furrow & specific practices

Data source : From field survey

Table No. 3.19: Details of existing livelihoods

1	2	3					4
S. No.	Name of activity	No. of beneficiaries					Pre-project average income per HH (Rs.)
		SC	ST	Others	Total	Women	
1.	Dairy	58	202	205	465	152	45000
2.	Goatery	71	251	241	563	185	30000
3.	Duckery	25	115	85	225	7	25000
4.	Poultry	85	356	852	1293	475	25000
TOTAL		239	924	1383	2546	819	

Data source : From field survey

Table No. 3.20: Existing functional assets (Works already completed under different schemes including works undertaken by farmers independently)

1	2	3	4	5	6
Sl. No.	Name of the work	Plot No.	Quantity (No./RMTs)	Amount Spent (Rs.)	Programme
1.	Construction Farm Pond (2020-21)	Chenichuk	1 No.	37,00,000.00	Executed by DRDA
2.	Hariyali Programmee	Sakumatha	1 No.	4,00,000.00	Executed by DRDA
3.	Road Side Plantation	Nandikeswar	--	2,00,000.00	Executed by DRDA

Data source : From field survey

Table No.3.21 PROBLEM TYPOLOGY OF THE WATERSHED

1	2	3	4
S.No	Problem area	Problem analysis	Proposed interventions to overcome problems
1	Soil Conservation (slope, erosion, soil loss, rainfall, productivity, etc)	1.River bank Erosion. 2.Soil Erosion, Siltation and high Soil loss in upland area. 3.Sheet Erosion is high in some places.	1.Construction of Graded Bundh, Field Bundh to protect the Soil Erosion and siltation problems. 2.Applying Bio-Engg. (Vetiver Plantaion), Boulder Pitching to protect the River bank erosion.
2	Water conservation (Water budget, Ground water norms, productivity)	1.Congestion of natural drainage, degradation of Wetland,etc. 2.Lack of Water storage facility. 3.Run-off originated from seasonal rain attains high velocity due to medium to steep prevailed in the watershed and thereby causes all types of Soil erosion hazards. 4.Loss of productivity due to Waterlogging.	1.Restoration of Drainage Channel by excavation and reclamation. 2.Reclamation of Natural Water bodies (Beels) by excavating and constructing Periphery Bundh,etc. 3.Construction of Farm Pond for water Harvesting/Storage along with Water Distribution Channel for Irrigation. 4.Construction of Nullah Bundh to check the Water logging problem.
3	Crop coverage – {80% of w/s area should be with canopy}	1.Rabi Crop area is very low because of lack of Irrigation facilities. 2.Mono Cropping. 3.Inundation problem during summer (kharif). 4.Low vegetative cover.	1.Agro Forestry, Fuel Wood plantation 2.Turmaric and Banana Plantation.

4	Agriculture productivity (crop wise compare with dist. average)	1.Low Agricultural productivity due to high flood during summer, lack of Irrigation facility, erratic and uncertain rainfall, low cropping intensity, lack of location specific technologies to match the high ecological diversity of rainfed area etc.	1.Brick Channel and Water storage farm pond for Irrigation for both Rabi and Kharif Crop.
5	Livestock productivity (Milk Yield, Meat yield, Eggs, Wool Yield, Kidding etc.)	1.Scaracity of fodder during flood period. 2.Lack of secure shelter during flood period. 3.INadequete nutrition due to lack of grazing land. 4.Diseeases which reduce the production potential of livestock.	1.Promotion of Marketing facilities through SHG. 2.Promotion of Dairy, Piggery, Goatery, Duckery, Polutry,etc farming activities.
6	Existing Livelihood activities for Asset less persons	1.Less income generation activities. 2.Their present occupation is Daily Labour.	1.Promotion of Dairy, Piggery, Goatery, Duckery, Polutry,etc farming activities. 2.Promotion of Weaving activities for asset less women.
7	Community Based Organizations & Social capital base	1.Most of the SHG are not functional	1.Formation of SHG, UG for promotion of various income generating activities.
8	Capacity Building (participation, training, awareness of watershed community)	1.In many villages it is observed that the participation in Gram Shabha is very low due to lack of awareness towards Watershed Development activities.	1.Conducting Awareness programmes among the villagers. 2.Providing training respect to each activities.
9	Others (specify)	1.Lack of marketing facilities.	1.Providing market promotion centres along with low cost go down for storage of various products.

CHAPTER - 4

Institutional Building and Project Management

Table No. 4.1 Details of SHGs & UGs newly formed under IWMP:

1	2	3				4			5			6			7			8			9		
Sl. No.	Type of Group	Total no. of CBOs				No. of members			No. of ST in each category			No. of SC in each category			No. of Others in each category			No. of BPL in each category			Bank linkage		
		With only Men	With only Women	With both	Total	M	F	Total	M	F	Total	M	F	Total	M	F	Total	M	F	Total	No. of SHGs	Amount (Rs)	
1	SHG	42	115	--	140	(i) Landless	151	781	932	17	42	59	22	25	47	125	745	870	168	754	922		
						(ii) MF	65	419	484	22	74	96	16	42	58	42	284	326	65	418	483		
						(iii) SF	35	98	133	2	14	16	2	5	7	34	78	112	0	0	0		
						(iv) LF	14	17	31	4	4	8	2	4	6	8	14	22	0	0	0		
	Total						265	1315	1580	45	134	179	42	76	118	209	1121	1330	233	1172	1405		
2	UGs	68	--	26	96	(i) Landless	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
						(ii) MF	835	68	903	185	42	227	115	16	131	825	47	872	0	0	0		
						(iii) SF	428	25	453	52	16	68	58	4	62	346	17	363	0	0	0		
						(iv) LF	25	0	25	0	0	0	7	0	7	25	0	25	0	0	0		
Total						93	1381	237	58	295	180	20	200	1196	64	1260	1288	0	0	0			

*Account no. of Watershed Committee, PIA.

Data source : From field survey

4.2: Details of Watershed Committees (WC)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18			
Name of WCs	Date of Registration as a Society (dd/mm/yyyy)	No. of members in WC	Designation	Name	M/F	SC	ST	SF	MF	LF	Land-less	UG	SHG	GP	Any other	Educl qualification	Function/s assigned#			
						Write "Yes" if applicable														
Na Bill MWS	On Process	14 Nos.	President	Deepak Payeng	M		Yes									HSLC	B,C,D,E,F,G,H & J(Arrangement of WC meeting)			
			Secretary	Prakash Sinte	M		Yes										HS	,B,C,D,E,F,G,H & J(Arrangement of WC meeting)		
			Member	Salman Pagog	M		Yes											HS	B, E & G	
			Member	Krishna Nagte	M		Yes											IX	B, E & G	
			Member	Brajen Das	M	Yes												BA	B, E & G	
			Member	Shankar Das	M	Yes									Yes			VIII	B, E & G	
			Member	Narayan Ragan	M		Yes								Yes			HSLC	B, E & G	
			Member	Niranjan Nangte	M		Yes											VIII	B, E & G	
			Member	Hemakanta Nagte	M		Yes											VIII	B, E & G	
			Member	Ganesh Limbu	M						Yes							OBC	HS	B, E & G
			Member	Momita Mili	F		Yes												HS	B, E & G

			Member	Rashmi Chingte	F		Yes									HS	B, E & G	
			Member	Debamita Pathak	F										OBC	HS	B, E & G	
			Member	Toramai Nagte	F		Yes									IX	B, E & G	
Panigaon MWS	On Process	11 Nos.	President	Nayanmoni Hazarika	M										OBC	HS	,B,C,D,E,F,G,H & J(Arrangement of WCmeeting)	
			Secretary	Pankaj Hazarika	M											OBC	BA	,B,C,D,E,F,G,H & J(Arrangement of WCmeeting)
			Member	Pradip Hazarika	M											OBC	VIII	B, E & G
			Member	Kishor Thapa	M											OBC	BA	B, E & G
			Member	Ratul Hazarika	M					Yes						OBC	HS	B, E & G
			Member	Rupam Saikia	M											OBC	HS	B, E & G
			Member	Pulin Zom	M											OBC	VIII	B, E & G
Panigaon MWS	On Process	11 Nos.	Member	Bitumari Borah	M										Gen	VIII	B, E & G	
			Member	Anup Bhuyan	M											Gen	IX	B, E & G
			Member	Nirmal Bhuyan	M											Gen	BA	B, E & G
			Member	Bhadreswar Paja	M											OBC	HS	B, E & G
			Member	Buli Devi	F											OBC	IX	B, E & G
			President	Mati Kumar Newar	M								Yes			OBC	BA	B,C,D,E,F,G,H & J(Arrangement

Gataimari MWS	On Process	14 Nos.																of WCmeeting)					
			Secretary	Prabin Nath	M														OBC	BA	B,C,D,E,F,G,H & J(Arrangement of WCmeeting)		
			Member	Ramen Nath	M															OBC	HS	B, E & G	
			Member	Ratul Nath	M															OBC	Poly Tech.	B, E & G	
			Member	Hiteswar Nath	M															OBC	VIII	B, E & G	
			Member	Bipul Nath	M															OBC	XI	B, E & G	
			Member	Suraj Nath	M															OBC	HS	B, E & G	
			Member	Raju Nath	M															OBC	HS	B, E & G	
			Member	Biren Bhatta	M															OBC	HS	B, E & G	
			Member	Biman Borah	M															Gen	XI	B, E & G	
			Member	Dinesh Das	M	Yes															HS	B, E & G	
			Member	Mani Devi	F																OBC	HS	B, E & G
			Member	Tilemai Devi	F						Yes										OBC	VIII	B, E & G
			Member	Rinkumoni Borah	F								Yes								Gen	VIII	B, E & G
Member	Era Borah	F																Gen	HS	B, E & G			
Member	Bharati Devi	F						Yes										OBC	BA	B, E & G			
			President	Lakhi Narayan Ghorachai	F													OBC	HS	B,C,D,E,F,G,H & J(Arrangement of WC			

Ghahibaz MWS	On Process	11 Nos.																meeting)					
			Secretary	Rashakanta Nath	M														OBC	HS	B,C,D,E,F,G,H & J(Arrangement of WC meeting)		
			Member	Siraj Ali	M															Gen	VIII	B, E & G	
			Member	Dhaniram Das	M	Yes															VIII	B, E & G	
			Member	Nitya Narayan Das	M	Yes															BA	B, E & G	
			Member	Mun Saikia	M																Gen	HS	B, E & G
			Member	Manoj Darji	M																OBC	HSLC	B, E & G
			Member	Gobin Thapa	M																OBC	VIII	B, E & G
			Member	Bulumoni Devi	F								Yes								OBC	VIII	B, E & G
			Member	Sunmoni Devi	F																OBC	HSLC	B, E & G
			Member	Pritisikha Devi	F																OBC	HSLC	B, E & G
Member	Jitu Bhuyan	M																OBC	HS	B, E & G			

(NOTE- Member wise details of SHGs, UGs & Watershed Committee has to be enclosed as annexures. The details includes the Name, Husband name and Caste)

In column 18 only the letter assigned, as below, needs to be typed, except for 'J', where the type may be specifically mentioned.

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

Table No 4.3: WDT Particulars:

1	2	3	4	5	6	7
S.No	Names of WDT members	M/F#	Age	Qualification / Experience	Description of professional training	Role/ Function*
1.	Ruhul Alom, WDT Leader	M	28	Civil Engg.	Training on Watershed Management, NIRD	A, B, C, D, E, F, G, H, I & J (Arrangement of meeting & Training)
2.	Amlan Sunder Sharma, WDT Member, Executive Engg., Sonitpur Zila Parishad	M	59	Diploma in Civil Engg.	Training on Watershed Management	B & E
3.	Mridul Barman, WDT Member, Jr. Engg. Irrigation, Sootea Division	M	28	B.E. Civil	-Do-	B & E
4.	Dr. Dharendra Kr. Behera, WDT Member, Asstt. Poultry Dev. Officer (APDO), Sonitpur	M	38	BVSC	-Do-	B & E
5.	Prafulla Bhuyan, WDT Member, FDO, Na Duar Dev. Block	M	58	B.Sc. (Zoology)	-Do-	B & E
6.	Jayanta Saikia, WDT Member, ADO, Balipara	M	34	M. Sc. (Agri)	-Do-	B & E
7.	Smti. Hewali Borah, WDT Member, Inspector, WESU, Jamugurihat	F	52	2 Years Certificate in Handloom Textile	-Do-	B & E
8.	Khiteswar Deka, WDT Member, Sericulture Demonstrator, Itakhola circle	M	52	H.S. (Science), Certificate Course in Sericulture	-Do-	B & E

*In column 7 only the letter assigned, as below, needs to be typed, except for 'J', where the type may be specifically mentioned.

A. PNP and PRA

C. Maintenance of Accounts

B. Planning

D. Signing of cheques and making payments

E. Supervision of construction activities
 G. Verification & Measurement
 I. Social Audit

F. Cost Estimation
 H. Record of labour employed
 J. Any other (MB Record).

Table No. 4.4: PIA particulars

1	2	3
S.No	Particulars	Details of PIA
1.	Type of organization#	Govt.
2.	Name of organization	Soil Conservation Department
3.	Designation & Address	Divisional Officer, Sonitpur Soil Conservation Division, Tezpur.
4.	Telephone	
5.	Fax	N/A
6.	E-mail	dosoilsonitpur@gmail.com

In column no. 8.1.6 (1), only the letter assigned to each type, as given below, needs to be typed.

A	Line Dept.	B	Autonomous organization
C	Govt. Institute	D	Research Bodies
E	Zila Parishad	F	Intermediate Panchayat
G	Voluntary Organisations	H	Any other (please specify).

Table No. 4.5 Bank Account Details

Name of WC/PIA	Name of the Bank/Place	Account No.	Name of the Signatory	Address
Sonitpur-1/WDC/2021-22	State Bank of India, Tezpur	40754231181	Ramen Saikia	Divisional Officer, Sonitpur Soil Conservation Division, Tezpur.
WATERSHED COMMITTEE				
Na Bill MWS	State Bank Of India, Jamugurihat Branch	40969360747	WDT Leader and Chair Person	Divisional Officer, Sonitpur Soil Conservation Division, Tezpur.
Panigaon MWS	State Bank Of India, Jamugurihat Branch	40969360758	WDT Leader and Chair Person	Divisional Officer, Sonitpur Soil Conservation Division, Tezpur.
Gataimara MWS	State Bank Of India, Jamugurihat Branch	40969360770	WDT Leader and Chair Person	Divisional Officer, Sonitpur Soil Conservation Division, Tezpur.
Ghahibaz MWS	State Bank Of India, Jamugurihat Branch	40969360805	WDT Leader and Chair Person	Divisional Officer, Sonitpur Soil Conservation Division, Tezpur.

Institutional Mechanisms: (Enclose the following documents)

4.6.1 Flow Chart of Institutional Arrangement from District to watershed level

4.6.2 Fund Flow mechanisms – flow chart,

4.6.2 List of Watershed Records to be maintained

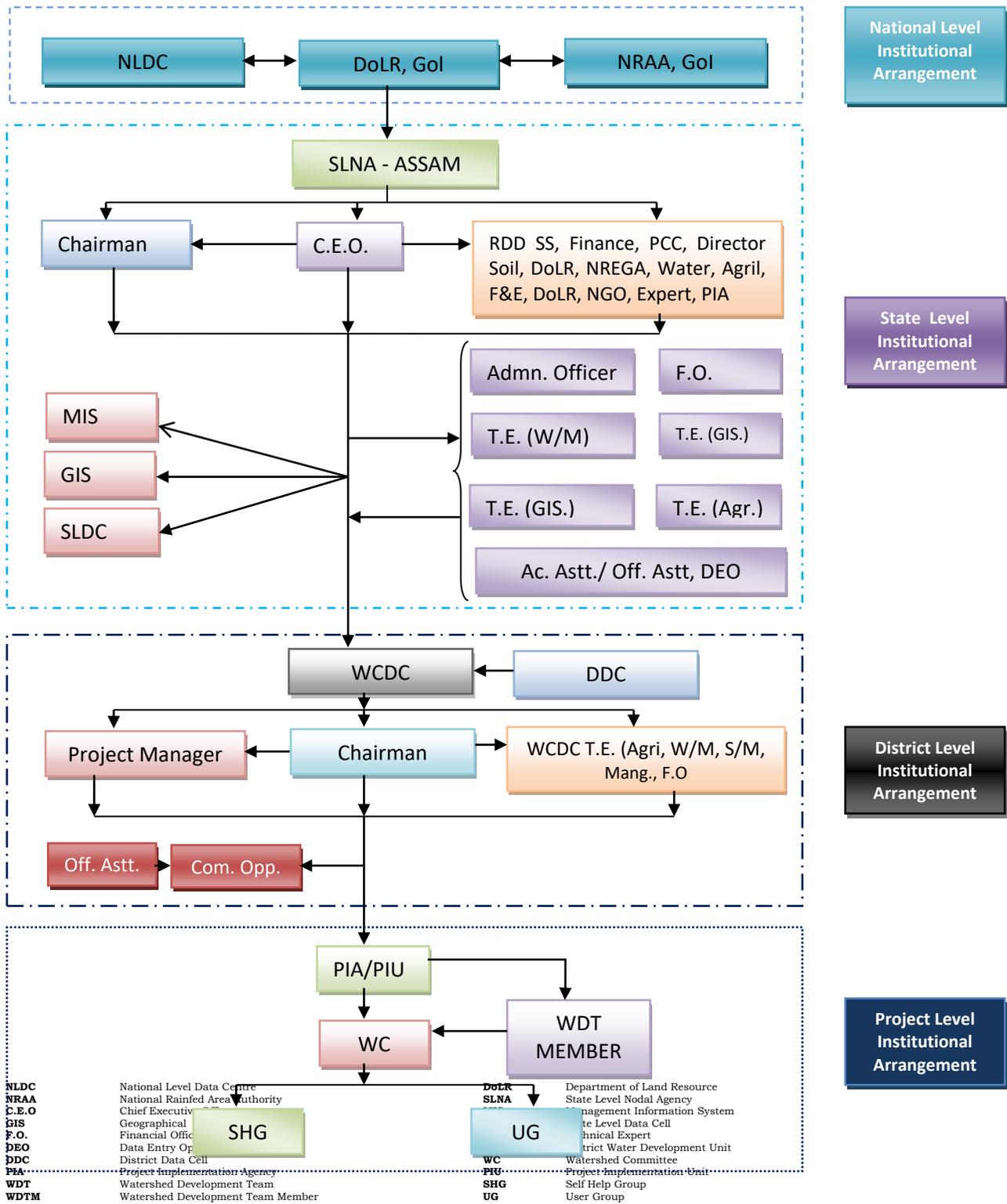
Project Implementation

Project Implementation Strategy including coordination and monitoring of implementation process, DWDU and other coordination mechanism. (Describe in detail).

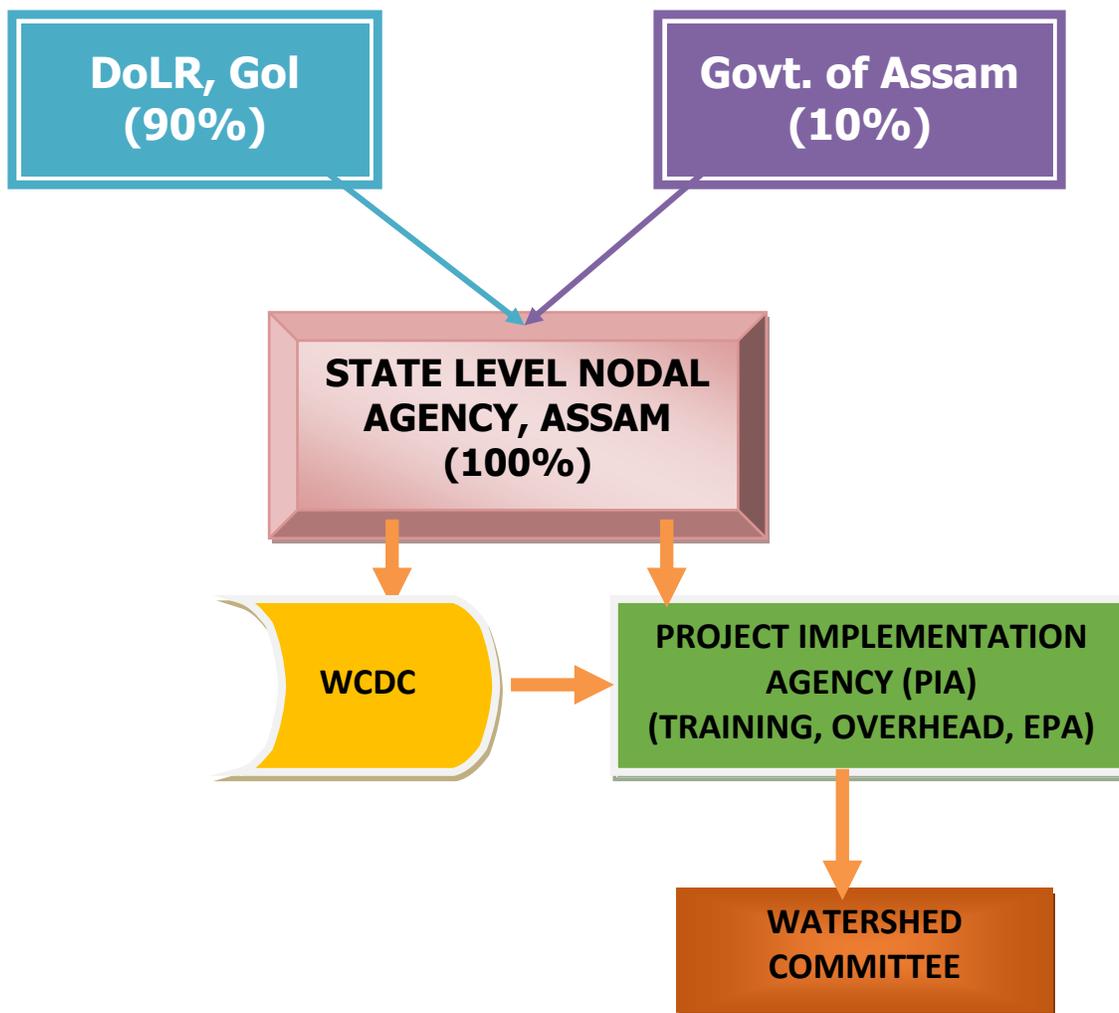
1	2	3	4	5	6	7
S. No.	Names of Departments with Schemes converging with IWMP	Name of activity/task/structure proposed under convergence (a) Structures (b) livelihoods (c) Capacity Building (d) Any other (pl. specify)	Period of Support (Years)	Reference no. of activity/ task/ structure in DPR	Estimated Fund Proposed Under Convergence (in Rs.)	Level of decision taken for convergence Block/district
1.	DRDA-Activities relating to Surface Runoff management and Vegetative cover	1. Water Distribution Channel 2. Drainage Channel 3. Guide bunds / Road side plantation	3	a) Structures d). Plantation Scheme	Necessary fund will be provided/implemented by DRDA	
2.	Agriculture	Improved Agronomical practices, Horticulture Plantation, STW, Agril Implements. Seeds Pesticides, Fertilizers, Marketing	2	(d) Horticulture STW Seeds, Pesticides, Fertilizers, Marketing	Necessary fund will be provided/implemented by Agriculture Deptt.	
3.	Fishery	Renovation of Fishery Tank and Piscicultue activities	2	d) Renovation of Fishery tank and supplying of fish seeds and food.	Necessary fund will be provided/implemented by Fishery Deptt.	

Institutional Mechanisms:

Fig. 11 Flow Chart of Institutional Arrangement from District to watershed level



4.6.2 Fund Flow mechanisms – flow chart,



4.6.3 List of Watershed Records to be maintained

A) AT WATERSHED COMMITTEE LEVEL

- Registration Certificate
- Bylaws
- Detail Project Report
- Annual Action Plan
- Cash Book
- Project Fund Passbook
- Watershed Development Fund Pass book

- Ledger Book
- Asset Register
- Vouchers
- Land Details
- Measurement Book
- Audit Report/ Social Audit Report
- Photo Documents
- Project Completion Report
- Common Guidelines
- MoU between Watershed Committee and Project Implementing Agency
- Revenue Records.

B) AT PROJECT IMPLEMENTING AGENCY LEVEL

- Cash Book
- Computerized Accounting System
- Vouchers

4.7 Documents of Agreements:

4.7.1) Watershed Committee Registration certificate - (under Process)

4.7.2 MoU – PIA – DWDU, PIA – WC - (under Process)

4.7.3 Resolution of Gram Sabha ,Aam Sabha, WC approving action plan#

#the resolution should be done village wise and needs to be approved in Gram/Aam Sabha

4.8 Project Implementation

Project Implementation involves a number of activities. Among them, the major activities are- securing community participation, co-ordination of activities and project management & Controlling, Monitoring.

Co-ordination is the process whereby more people or organizations work together to deal collectively with a shared objective. The rationale for co-ordination shall be-

1. To take immediate corrective action for problems encountered in implementation of the project.
2. To promote better relationship among organizations, institution, departments and individuals connected with the project and to harmonies resources and activities for the achievements of the project objectives.
3. To establish cordial relationship between the target population of the project and all the other section of the society.
4. Team building which include recruiting people with appropriate qualification for positions in the organization, orienting new people to their position to help them learn about their responsibilities and providing training when necessary to upgrade people's skills.

Project Management & Controlling means managing activities to ensure progress towards the project objectives.

1. Measuring progress of project by comparing the current situation with established goals and objectives.
2. Submitting reports to account for project activities and finance
3. Monitoring performance to document the way people carry out their responsibilities.
4. Providing feedback to people on a regular, informal basis including positive feedback and constructive criticism.
5. Adjusting plans to respond to changes in the internal and external organizational environment.

Monitoring is an important part of project implementation which is a process of routinely gathering information on all aspects of the project. The monitoring shall be continuous and it should be in place before start-up.

The first level monitoring shall be done by the project staff. The DWDU and PIA shall be responsible for monitoring the staff and task under them and Project Manager shall be

responsible for monitoring all aspects of the project. The second level monitoring shall be done by third party. The monitoring team shall be collected the report through field visit, progress and measures performance including financial reporting.

Step for Monitoring Process:

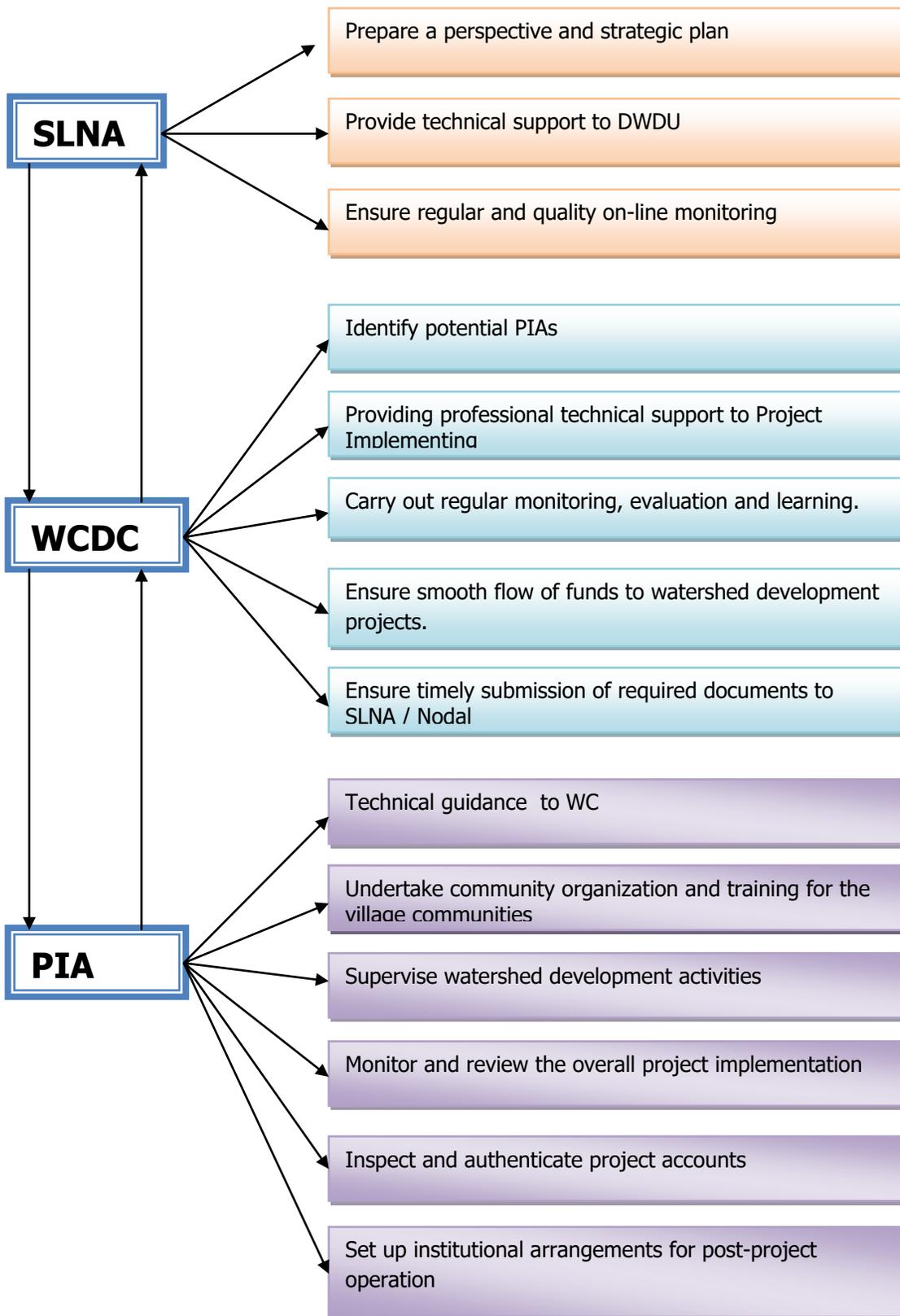
- Defining the objectives of the monitoring system;
- Designing a programme to systematically monitor achievements;
- Selection of indicators/parameters to be monitored, the location, methods/processes and frequency of observations and the information processing and reporting procedure are important; and
- Organizing, motivating and training people to obtain, convey and use the information.

Monitoring Tools

- Semi-structured interviews;
- Community workshops to evaluate the extent of adoption and resulting achievements from conservation practices.
- Observation and measurement of easily quantifiable field indicators.
- Farmers' own records can be prepared which provides vital information to great details.
- Ground photographs taken from the same place depicting before and after remedial measures, details concerning landscape CPR's changes in the status of natural resources.
- Community evaluation of certain simple technical, ecological, economical, social and essential services indicators.
- Remote sensing satellite imageries and aerial photographs taken at the start of the plan are repeated periodically.
- Geographical Information Systems (GIS)
- Video monitoring.
- Comparison with demonstration and research plots/ farms.
- Comparison with demonstration and research micro-watersheds.
- Hydro-meteorological measuring.
- Using the information gathered by other institutional and private enterprises.
- Combination of above mentioned tools.

PIS	Tasks	Responsibility
Project Co-ordination	Immediate corrective action for problem encountered	WCDC, Project Manager, WDT Member
	Create Relationship among staff and Institution	Project Manager
	Team Building & Capacity Building	WCDC/PIA/Project Manager
	Co-operation and Network Development	WCDC/PIA/Project Manager
Project Management & Controlling	Progress of Project	Project Manager
	Report generating to account project activities and financial statement	PIA/ Project Manager
	Performance monitoring	PIA/ Project Manager/WCDC
Monitoring	1 st Level Monitoring Staff Performance Work Performance Target achievement	WCDC/Project Manager/PIA
	2 nd Level Monitoring Work Quality Deviation Report Financial statement	WCDC/Third Party

Role & Responsibility of different Institution during Project Implementation



No. 4.8 Convergence plan with WDC-PMKSY 2.0:

1	2	3	4	5	6	7
S. No.	Names of Departments with Schemes converging with IWMP	Name of activity/task/structure proposed under convergence	Period of Support (Years)	Reference no. of activity/task/structure in DPR (Table No.)	Estimated Fund Proposed Under Convergence (Rs. in Lakh)	Level of decision taken for convergence Block/district
		(a) Structures (b) livelihoods (c) Capacity Building (d) Any other (pl. specify)				
1	Agriculture	Structures (NRM), Production System & MicroEnterprises	5	5.2.2 and 7.1 (3)	17.00	Circle, Block, Sub-division & District level
2	Irrigation	Structures (NRM)	5	5.2.0	51.00	Sub-division, District & Division level
3	Animal Husbandry	Livelihoods Activities for Asset less poor, Production System & Micro Enterprises	5	7.1 (3 and 4)	9.60	Circle, Block, Sub-division & District level
4	Fishery	Farm Pond	5	5.2.2	18.00	-do-
5	Handloom & Textile	Livelihoods Activities for Asset less poor, Production System & Micro Enterprises	5	7.1 (3 and 4)	6.00	Sub-division & District level
	Total	-	-	-	101.60	-

CHAPTER – 5

Management/Action Plan

Description on methodology of plan adopted

a) Awareness generation interventions (Nukkad Natak, Video show, Exposure, Wall painting, door to door campaign, posters, pamphlets, village meeting etc)

(i) Awareness campaign through *Gram Sabha* in each villages of watershed area. Awareness generation programme will be conducted for all project stakeholders at watershed level with the basic purpose of educating them and creating more interest regarding various aspects of the IWMP project.

(ii) Awareness campaign through distribution of pamphlet and brochures describing about the IWMP project.

b) Initial Orientation program (Concept seeding, About Watershed?/Watershed Management?Importance of peoples participation in planning and implementation.) :

For successful completion of the project, orientation of both project personnel and watershed communities according to the changing perspective is imperative and it will enhance skills and competence of project staff to work with the villagers. Various training, awareness programme and seminar shall be conducted to build necessary skills and competence among the project officials, PRIs, especially GPs and other Communities Based Organizations (CBOs) about planning, implementation and management of various project activities.

c) Formation process UGs & Watershed Committee : The User Group and Watershed Committee are formed through Gram Sabha and awareness programme.

d) DPR preparation process:

In consideration of the objective & terms of reference of the programme , the Methodology adopted for Preparing The DPR are-

Survey :

1. **Socio-Economic Survey:**

- a) Collection of data to find out the strength, weakness, opportunity and threat of the project area and assessment of local resources. It also includes collection of water sample, soil sample and testing shall be done in laboratory to find out its problem & prospects.
- b) Total household enumeration – include collection of household data related to social as well economic status of the member. It also include Land use, Agriculture including area, productivity, cropping intensity, Horticulture, Livestock and Fisheries, Forests and Grass land, Livelihood Status, Hydrology and Water Resources, Soil and Moisture Conservation and Efficient use of Water.

2. Data Collection –Secondary Data Collection, SE Survey, PRA tools (Social map, matrix ranking wealth ranking, seasonality of labour, migration, crop, disease, Resource map, Transect walk) , sample collection & testing

- a. A Physical survey has conducted using GPS/Total Station in the study area to identify the location, distribution and availability of the local resources and to identify the location, morphology and other physiographic conditions that proposed for any intervention.
- b. Collection of satellite imagery, toposheets, weather data, data related to natural calamities like damage by flood, earthquake etc.

3. Planning Process – PNP, FGDs, IB and CB plans (by utilizing the PNP formats and input data sheets):

After collection of baseline data of the study areas PRA has conducted among the villagers in village level to find out the intervention which are proposed for implementation. The PRA The process is expected to enhance identification of the felt needs of the people, bringing forth consensus, the empowerment of local disadvantaged groups, integration of local knowledge systems into project design, two-way learning process between the project and local people, political commitment and support, accountability in local governance. The PRA methodology utilizes different tools to seek

its goal of a participatory approach for addressing any issue. The following tools were used by the research team in the exercise under consideration:

- a. **Resource mapping:** Resource Mapping has done to identify valuable resource, Ensure that everyone has access to the resources they need, avoid duplication of services and resource, enhance service, Identify flexible funding strategies, use data to make informed decision and cultivate new partnerships and relationship.
- b. **Social mapping:** Social mapping is used to present information on village layout, social infrastructure, demography, language-religion-culture groups, health, wealth, other, etc. This provides an overview of the socio-economic aspects.
- c. **Focus Group Discussion:** A focus group discussion (FGD) is a group discussion of approximately 6 - 12 persons guided by a facilitator, during which group members talk freely and spontaneously about a certain topic. A FGD is a qualitative method and its purpose is to obtain in-depth information on concepts, perceptions and ideas of a group. A FGD aims to be more than a question-answer interaction. The idea is that group members discuss the topic among themselves, with guidance from the facilitator. A FGD also helps to bring out the perceptions of the weaker stake-holders in an issue, which otherwise will not come up.
- d. **Transect Walk:** A transect walk is a walk taken by participants and facilitator through the area of interest, observing, asking, listening, looking, identifying different zones, seeking problems and possible solutions. The finding are documented and they can be mapped on to a transect diagram or map. Transects are an ideal point of departure for a research/planning process in a village, because we establish the villagers as the experts on living condition of that area.

4. Mapping :

Mapping and analysis has done in GIS Platform using ARC GIS and the Satellite Image interpretation shall be done by ERDAS Software. The data that collected for any intervention has analyzed in GIS Platform using satellite imagery and Google Earth. The following Maps for the study shall be prepared using GIS-

- a. Location Map
- b. Watershed Map
- c. Relief Map
- d. Drainage Map
- e. Slope map

- f. Soil Map
- g. Land Use / Land cover map
- h. Map showing Proposed Intervention in Different Phase

5. Hydro-geological Survey

6. Public-Private partnership

7. Consolidation & preparation of DPR document

8. Approval by Aam Sabha/Gram Sabha

5.2 Details of Natural Resource Management Activities

Table No. 5.2.1 Soil and Moisture Conservation structures

1	2	3	4	5	6	7	8	9	10	11	12	13
Sl. No.	Name of the Activities (Structures)	Name of the Hamlet / Village	Plot Numbers (including Name of the local Patch)	Name of Beneficiaries	Area (in Ha)/ Dimension (in M/ Sq. M / CuM) of Structure	Unit Cost	Total Cost (Rs. In Lakh)	Contribution	Total Grant Amount (Rs. In Lakh)	Year of Implementation (1st/2nd /3rd/4th/5th)	Latitude	Longitude
1.	Earthen Agri Bund	Bharali Chapari	Construction of Earthen Agri Bundh at Chenichuk	All villagers & farmers	5000 M ³	0.0029 /M ³	14.00	0.70	14.00	2 Nd	26.8114 65 ⁰	92.8878 ⁰
2.		Maranakuri	Construction of Earthen Agri Bundh	All villagers & farmers	4300 M ³	0.0029 /M ³	12.98	0.65	12.98	3 Rd	26.8172 83 ⁰	92.88418 6 ⁰
3.		Nabill	Earthen Agri Bundh at Krishi Pam Na Bill	All villagers & farmers	2000 M ³	0.0029 /M ³	5.50	0.275	5.50	2 Nd	26.8172 51 ⁰	92.88405 5 ⁰
4.		2 No. Barpathar	Earthen Agri Bundh at 2 No. Barpathar	All villagers & farmers	2100 M ³	0.0029 /M ³	5.80	0.29	5.80	1 st	26.8172 72 ⁰	92.88374 9 ⁰
5.		Bormota	Earthen Agri Bundh at Bormota	All villagers & farmers	2050 M ³	0.0029 /M ³	5.70	0.285	5.70	3 Rd	26.8092 54 ⁰	92.89632 2 ⁰
6.		Barpathar No. 1	Earthen Agri Bundh at Barpathar No. 1	All villagers & farmers	2100 M ³	0.0029 /M ³	5.80	0.29	5.80	5 Th	26.8112 09 ⁰	92.89175 2 ⁰

7.	Earthen Agri Bund	Chamdha ra	Earthen Agri Bundh at Chamdhara	All villagers & farmers	2500 M ³	0.0029/ M ³	6.00	0.30	6.00	4 Th	26.8092 24 ⁰	92.89862 5 ⁰
8.		Chamdha ra	Earthen Agri Bundh at Chamdhara	All villagers & farmers	2500 M ³	0.0029/ M ³	6.80	0.34	6.80	3 Rd	26.8068 26 ⁰	92.89499 6 ⁰
9.		Gotaimari	Earthen Agri Bundh at Gotaimari	All villagers & farmers	4000 M ³	0.0029/ M ³	11.00	0.55	11.00	2 Nd	26.8025 47 ⁰	92.89211 66 ⁰
Total For Earthen Agri Bundh							73.58	3.68	73.58			
10.	Earthen Guide Bundh	Gotaimar a	Earthen Guide Bundh at Gotaimari	All villagers & farmers	2500 M ³	0.0029/ M ³	6.80	0.25	6.80	3 Rd	26.7786 19 ⁰	92.91467 4 ⁰
11.		Nandikes war	Earthen Guide Bundh at Nandikesw ar	All villagers & farmers	5600 M ³	0.0029/ M ³	16.00	0.80	16.00	1 st	26.7788 64 ⁰	92.91652 8 ⁰
12.		Chaki Ghat	Earthen Guide Bundh at Chaki Ghat	All villagers & farmers	2500 M ³	0.0029/ M ³	6.80	0.34	6.80	3 Rd	26.7788 33 ⁰	92.90527 0
Total for Earthen Guide Bundh							29.60	1.39	29.60			

13.	Others (Brick Channel)	Bharali Chapari	Constructio n of Brick Channel at Bharali Chapari	All villagers & farmers	400 Rm	0.045/ Rm	18.00	0.90	18.00	1 St	26.7788 36 ⁰	92.90006 03 ⁰	
14.		Bharali Gaon	Constructio n of Brick Channel at Bharali Gaon	All villagers & farmers	400 Rm	0.045/ Rm	18.00	0.90	18.00	2 Nd	26.7898 32 ⁰	92.90447 3 ⁰	
15.		Maranakur i	Constructio n of Brick Channel at Maranakuri	All villagers & farmers	280 Rm	0.045/ Rm		12.60	0.63	12.60	3 Rd	26.7912 51 ⁰	92.90335 8 ⁰
16.		Bormota	Constructio n of Brick Channel at Bormota	All villagers & farmers	155 Rm	0.045/ Rm		7.00	0.35	7.00	4 Th	26.7902 31 ⁰	92.9154 ⁰
17.		Gotaimari No.1	Constructio n of Brick Channel at Gotaimari No.1	All villagers & farmers	193 Rm	0.045/ Rm		8.70	0.435	8.70	5 Th	26.7438 64 ⁰	92.88764 7 ⁰
TOTAL for Others (Brick Channel)							64.30	3.215	64.30				
Sub Total for SMC							167.48	8.285	167.48				

Table No. 5.2.2 Water Harvesting Structures

1	2	3	4	5	6	7	8	9	10	11	12	13
Sl. No.	Name of the Activities (Structures)	Name of the Hamlet / Village	Plot Numbers (including Name of the local Patch)	Name of Beneficiaries	Area (in Ha)/ Dimension (in M/ Sq. M / CuM) of Structure	Unit Cost	Total Cost (Rs. In Lakh)	Contribution	Total Grant Amount ((Rs. In Lakh)	Year of Implementation (1st/2nd/3rd/4th/5th)	Latitude	Longitude
1.	Farm Pond	Gotaimari	Farm Pond at Gotaimari	All villagers & farmers	Pond= 7000 M ³ Plantation = 100 Nos.	0.0019 /M ³	17.00	0.95	17.00	2 Nd	26.5612 48 ⁰	92.9287631 ⁰
2.		Gotaimari	Farm Pond at Gotaimari	All villagers & farmers	Pond= 7000 M ³ Plantation = 100 Nos.	0.0019 /M ³	19.00	0.95	19.00	2 Nd	26.7366 02 ⁰	92.907615 ⁰
3.		Gotaimari	Farm Pond at Gotaimari	All villagers & farmers	Pond= 7000 M ³ Plantation = 100 Nos.	0.0019 /M ³	19.00	0.95	19.00	2 Nd	26.7377 58 ⁰	92.91383 ⁰
4.		Bharali Chapari	Farm Pond at Bharali Chapari	All villagers & farmers	Pond= 6000 M ³ Plantation = 100 Nos.	0.0019 /M ³	18.00	0.90	18.00	1 st	26.7360 72 ⁰	92.89415 ⁰
5.		Bharali Chapari	Farm Pond at Bharali Chapari	All villagers & farmers	Pond= 6000 M ³ Plantation = 100 Nos.	0.0019 /M ³	18.00	0.90	18.00	2 Nd	26.7456 94 ⁰	92.746465 ⁰
6.		Nandikeswar	Farm Pond at Nandikeswar	All villagers & farmers	Pond= 5200 M ³ Plantation = 100 Nos.	0.0019 /M ³	10.00	0.50	10.00	1 st	26.7463 69 ⁰	92.917266 ⁰
7.		Bakula	Farm Pond at Bakula	All villagers & farmers	3157 M ³	0.0019 /M ³	6.00	0.30	6.00	3 Rd	26.7465 67 ⁰	92.907264 ⁰

8.		Nabill/To wbhanga	Farm Pond at Towbhanga	All villagers & farmers	Pond= 6000 M ³ Plantation = 100 Nos.	0.0019 /M ³	18.00	0.90	18.00	1 st	26.7464 66 ⁰	92.907264 ⁰
9.		Jugibasti	Farm Pond at Jugibasti	All villagers & farmers	Pond= 5500 M ³ Plantation = 100 Nos.	0.0019 /M ³	13.00	0.65	13.00	3 Rd	26.7437 98 ⁰	92.898574 ⁰
10		Goal Gaon	Farm Pond at Goal Gaon	All villagers & farmers	Pond= 6000 M ³ Plantation = 100 Nos.	0.0019 /M ³	18.00	0.90	18.00	2 Nd	26.7404 48 ⁰	92.887646 ⁰
11.		No. 1 Gataimar i	Farm Pond at No. 1 Gotaimari	All villagers & farmers	Pond= 5500 M ³ Plantation = 100 Nos.	0.0019 /M ³	13.00	0.65	13.00	1 st	26.7438 64 ⁰	92.887647 ⁰
12.		Major Chuk	Farm Pond at Major Chuk	All villagers & farmers	3157 M ³	0.0019 /M ³	6.00	0.30	6.00	2 Nd	26.7900 25 ⁰	92.935945 ⁰
13.		Chamdh ara	Farm Pond at Chamdhara	All villagers & farmers	3157 M ³	0.0019 /M ³	6.00	0.30	6.00	4 Th	26.7955 12 ⁰	92.93911 ⁰
14.		Bormota	Farm Pond at Bormota	All villagers & farmers	3157 M ³	0.0019 /M ³	6.00	0.30	6.00	3 Rd	26.7972 46 ⁰	92.940972 ⁰
15.	Farm Pond	Jamugur i	Renovation of Farm Pond	All villagers & farmers	1 No.	0.0019 /M ³	2.00	0.00	2.00	2 nd	26.7463 69 ⁰	92.917266 ⁰
Total for Farm Pond							189.00	9.45	189.00			

15.	R.C.C. Water Harvesting Structure	Gotaimari	R.C.C Check Dam at Gotaimari	All villagers & farmers	24 M ²	0.689	17.00	0.85	17.00	1 st	26.808007 ⁰	92.938855 ⁰
16.		Kuwamara	R.C.C Check Dam at Kuwamara	All villagers & farmers	24 M ²	0.689	17.00	0.85	17.00	1 st	26.831615 ⁰	92.948404 ⁰
17.		Gotaimari	R.C.C Check Dam at Gotaimari	All villagers & farmers	24 M ²	0.689	17.00	0.85	17.00	1 st	26.831615 ⁰	92.948404 ⁰
Total for R.C.C. WHS							51.00	2.55	51.00			

Table No. 5.2.2 Vegetative Covers

1	2	3	4	5	6	7	8	9	10	11	12	
Sl. No	Name of the Activities	Name of the Hamlet / Village	Plot Numbers (including Name of the local Patch)	Name of Beneficiaries	Area (in Ha)	Unit Cost	Total Cost (Rs. In Lakh)	Contribution	Total Grant Amount (Rs. In Lakh)	Year of Implementation (1st/2nd/3rd/4th/5th)	Latitude	Longitude
1.	Plantation	Nandikeshwar	Plantation Nadikeswar to Patalachuk	Nandikeswar Dewaloi	1.50	3.30	4.95	0.2475	4.95	2 nd	26.737758 ⁰	92.91383 ⁰
2.		Nabill	Towbhanga L.P. School (Horticulture Plantation)	Towbhanga L.P. School	1.50	3.30	4.95	0.2475	4.95	3 rd	26.811349 ⁰	92.891349 ⁰
Total for Vegetative Measures							9.90	0.495	9.90			

Table No. 5.2.3 Engineering Structures

1	2	3	4	5	6	7	8	9	10	11	12		
Sl. No.	Name of the Activities	Name of the Hamlet / Village	Plot Nounbers (including Name of the local Patch)	Name of Beneficiaries	Area (in Ha)	Unit Cost	Total Cost (Rs. In Lakh)	Contribution	Total Grant Amount (Rs. In Lakh)	Year of Implemntation (1st/2nd/3rd/4th/5th)	Latitude	Longitude	
1.	Safe Disposal Unit of Water	Nabill/ Das Gaon	Safe Disposal Unit of Water at Na Bill	All villagers & farmers	48 M ²	0.175 /M ²	8.55	0.35	8.55	2 Nd	26.831615 ⁰	92.948404 ⁰	
2.		Maranakuri	Safe Disposal Unit of Water at Maranakuri	All villagers & farmers	35 M ²	0.175 /M ²	6.50	0.325	6.50	5 Th	26.810931 ⁰	92.889274 ⁰	
3.		Amorakuri	Safe Disposal Unit of Water at Amorakuri	All villagers & farmers	35 M ²	0.175 /M ²	6.50	0.325	6.50	5 Th	26.753095 ⁰	92.89395 ⁰	
4.		Boulder Pitching	Nabill	Boulder Pitching at Nabill	All villagers & farmers	60 M	0.25/ M	15.00	0.75	15.00	3 Rd	26.811401 ⁰	92.889532 ⁰
5.			Tarajan	Boulder Pitching at Tarajan	All villagers & farmers	60 M	0.25/ M	15.00	0.75	15.00	2 Nd	26.8249 ⁰	92.931545 ⁰
		Loop Cutting	Nabill	Nabil to Towbhanga	All villagers & farmers	16200 M ³	0.001 57/M ³	26.20	1.2715	26.20	1 st	26.811442 ⁰	92.894805 ⁰
Total for Engineering Structure							77.75	3.7715	77.75				

Table No. 5.2.4 Land Development (Productive Use)

Sl. No.	Name of the Activities	Name of the Hamlet / Village	Plot Numbers (including Name of the local Patch)	Name of Beneficiaries	Area (in Ha)	Unit Cost	Total Cost (Rs. In Lakh)	Contribution	Total Grant Amount (Rs. In Lakh)	Year of Implementation (1st/2nd/3rd/4th/5th)	Latitude	Longitude
1.	Earthen Drainage Channel	Bormota	Earthen Drainage Channel at Bormota	All villagers & farmers	3684 M ³	0.0019/M ³	7.00	0.35	7.00	4 th	26.8114 65 ⁰	92.8878 ⁰
2.		Hatbor	Earthen Drainage Channel at Hatbor	All villagers & farmers	4142 M ³	0.0019/M ³	7.87	0.3935	7.87	3 rd	26.6712 49 ⁰	92.91692 2 ⁰
3.		No.1 Gataimari	Earthen Drainage Channel at No. 1 Gotaimari	All villagers & farmers	3684 M ³	0.0019/M ³	7.00	0.35	7.00	4 th	26.6612 38 ⁰	92.90693 1 ⁰
Total for Earthen Drainage Channel							21.87	1.0935	21.87			
Grand Total for NRM (5.2)							517.00	25.645	517.00			

5.3: Structure or Activity Wise Details of Engineering Structure and Vegetative Measures

Table No.5.3.1 : Engineering structures for Soil Conservation Measures (SMC)

1	2	3				4					
S. No.	Name of structures	Area (ha)	Farmers	Total units (No./ cu.m./ rmt)	UNIT COST (Rs)	Proposed plan				Farmers contribution (Rs. in lakh)	Grant Portion (Rs. in lakh)
						Estimated cost* (Rs. in lakh)					
						M	W	O	T		
A	PRIVATE LAND	--	--	--	--	--	--	--	--	--	--
B	COMMON LAND										
	Agri Bundh	353	All Farmers of the Villages	27850 M ³	290	14.716	51.506	7.358	73.58	3.6979	73.58
	Guide Bundh	105	-Do-	13100 M ³	290	5.92	20.72	2.96	29.60	1.48	29.60
	Others (Brick Channel)	241	-Do-	1235 Rm	450	38.80	22.505	3.215	64.30	3.215	64.30
	Sub Total (B)	699				59.436	94.731	13.533	167.48	8.3929	167.48
	Grand Total (A+B)	699				59.436	94.731	13.533	167.48	8.3929	167.48

(M – Materials, W- wages, O- others, T – Total)

5.3.2: Details of engineering structures for Water Harvesting WHS

M – Materials, W- wages, O- others, T – Total

1	2	3	4					
S. No.	Name of structures	Total units (No./ cu.m./ rmt)	UNIT COST (Rs. In Lakh)	Proposed plan				Farmers contribution (Rs)
				Estimated cost*				
				(Rs. in lakh)				
				M	W	O	T	
A	PRIVATE LAND	--	--	--	--	--	--	--
A1	Individual structures	--	--	--	--	--	--	--
i.	Check Dams	--	--	--	--	--	--	--
ii.	Percolation Tanks	--	--	--	--	--	--	--
iii.	Mini PTs	--	--	--	--	--	--	--
iv.	Farm Ponds	--	--	--	--	--	--	--
A2	Common structures							
i.	Check Dams	--	--	--	--	--	--	--
ii.	Percolation Tanks	--	--	--	--	--	--	--
iii.	Mini PTs	--	--	--	--	--	--	--
iv.	Farm Ponds	--	--	--	--	--	--	--
v.	Gabion Structures	--	--	--	--	--	--	--
vi.	R.C.C. Box Culvert	--	--	--	--	--	--	--

vii.	Subtotal (A)	--	--	--	--	--	--	--
B	COMMON LAND							
i.	Check Dams	3	17.00	30.60	17.85	2.55	51.00	2.55
ii.	Percolation Tanks	--	--	--	--	--	--	--
iii.	Mini PTs	--	--	--	--	--	--	--
iv.	Farm Ponds	14	0.00190	28.35	122.85	37.80	189.00	9.45
v.	Safe Disposal Unit of Water	3	0.175/ M2	12.90	5.375	3.225	21.50	1.075
vi.	Loop Cutting	1	0.00158/ M3	10.48	13.10	2.62	26.20	1.31
vii.	Boulder Pitching	2	0.25 / M	18.00	7.50	4.50	30.00	1.50
	Sub Total (B)	19		100.33	166.675	50.695	317.70	15.885
	Grand Total (A+B)	19		100.33	166.675	50.695	317.70	15.885

Table No. 5.3.3: Details of activities connected with vegetative cover in watershed works*

1	2	3		4			
S. No.	Name of structure/ work	Area (ha)	No. of plants	Proposed plan			
				Unit Cost (Rs)	Estimated cost (Rs. in lakh)	Farmer Contribution (Rs. in lakh)	Grant (Rs. in lakh)
	Block Plantation / Plantations in CPR	--	--	--	--	--	--
	Agro Forestry (Plantations on bunds and in Agriculture lands)	45	500	330000	9.90		9.90
	Sub Total	45	500	330000	9.90		9.90

Table No. 5.3.4: Details of activities connected with Land Development (Productive use)*

1	2	3		4					
S. No.	Name of structures	Total units (No./ cum/ rmt)	UNIT COST (Rs. Rs.)	Proposed plan				Farmers contribut ion (Rs)	Grant Portion (Rs. in lakh)
				Estimated cost* (Rs. in lakh)					
				M	W	O	T		
A	PRIVATE LAND								
A1	Individual uses		-						
A2	Common uses								
1	Others - Earthen Drainage Channel	1151 0 M ³	190	4.374	14.2155	3.2805	21.87	1.0935	21.87
	Sub Total (B)		190	4.374	14.2155	3.2805	21.87	1.0935	21.87
	Grand Total (A+B)		190	4.374	14.2155	3.2805	21.87	1.0935	21.87

(M – Materials, W- wages, O- others, T – Total)

Chapter 6

Capacity Building Plan

Table No. 6.1 Details of Capacity Building

1	2	3	4	5	6	7	8	9	10	11
Sl. No.	Name of the Training & Exposure (Knowledge, Skill, etc. at both <i>Being and Doing</i> level)	Number of events	Number of Participants in an event	Total Number of days per event	Total Traineedays (= 3 x 4 x 5)	Cost per Trainee day (in Rs)	Total Cost required for the programme (= 6 x7 ; in Rs.)	Total Grant Amount (in Rs)	Year of Implementation (1st/2nd/3rd/4th/5th)	Monitoring Indicators
SHG/ UG / WC / PI related										
1.	Formation of SHG/UG/WC	8	60	1	480	500	240000.00	240000.00	1 st , 2 Nd	Project Manager
2.	Agronomic Practices SHG/UG/WC Members	8	60	1	480	500	240000.00	240000.00	1 st , 2 Nd	
3.	Animal Husbandry to SHG/UG/WC Members and village level worker	4	40	1	160	700	112000.00	112000.00	1 st , 2 Nd	
4.	Fishery and Horticulture, SHG/UG/WC Members,	4	40	1	160	700	112000.00	112000.00	1 st , 2 Nd	
5.	Handloom and Textile SHG/UG/WC Members	4	40	1	160	700	112000.00	112000.00	1 st , 2 Nd	
6.	Watershed Management Training to WC Members	4	40	1	160	700	112000.00	112000.00	1 st , 2 Nd , 3 rd , 4 th	
7.	Exposure Visit	4	20	1	80	1000	80000.00	80000.00	1 st	
Subtotal		36	300	7	1680	4800	1008000.00	1008000.00		

NRM related										
1.	Watershed Management Training to WC Members	4	80	1	320	700	224000.00	224000.00	1 st	Project Manager
2.	Meeting with local village people	8	80	1	640	500	320000.00	320000.00	1 st , 2 Nd , 3 rd	
3.	Land Used Practises	2	40	1	80	1000	80000.00	80000.00	1 st , 2 Nd	
Subtotal		12	200	3	1040	2200	624000.00	624000.00		
Production Enhancement related										
1.	Production Enhancement	6	80	1	480	700	336000.00	336000.00	1 st , 2 Nd , 3 rd	Project Manager
Subtotal		6	80	1	480	700	336000.00	336000.00		
Livelihoods / Micro-enterprises related										
1.	Livelihoods / Micro-enterprises Related	6	80	1	480	700	336000.00	336000.00	1 st , 2 Nd , 3 rd	Project Manager
Subtotal		6	80	1	480	700	336000.00	336000.00		
Convergence / Rights & entitlement / Wel Being related										
1.	Rights & entitlement	2	60	1	120	1000	120000.00	120000.00	3 rd , 4 th	Project Manager
2.	Convergence with other Department Related	2	35	1	70	1000	70000.00	70000.00	3 rd , 4 th , 5 th	
Subtotal		4	95	2	190	2000	190000.00	190000.00		
For PIA / WDT staffs level										
1.	Recruitment of WDT from Open Market	1	40	1	40	1000	40000.00	40000.00	1 st	Project Manager
2.	Watershed Management Training to WDT	4	30	1	120	1000	120000.00	120000.00	1 st	
3.	GIS application and Data Entry to WDT	1	15	1	15	1000	15000.00	15000.00	1 st , 2 Nd	
4.	Exposure visit	2	40	1	80	1000	80000.00	80000.00	3 rd , 4 th , 5 th	
Subtotal		5	125	4	240	2000	255000.00	255000.00		

Others										
1.	Mass Meeting	4	70	1	280	700	196000.00	196000.00	1 st , 2 Nd , 3 rd , 4 th ,	Project Manager
2.	Publicity Materials	--	--	--	--	--	155000.00	155000.00	1 st , 2 Nd , 3 rd , 4 th , 5 th	
3.	Seminar/Workshop	4	50	1	200	1000	200000.00	200000.00	3 rd , 4 th	
Subtotal		8	120	2	480	1700	551000.00	551000.00		
GRAND TOTAL		77	1000	20	4590	14100	3300000.00	3300000.00		

Chapter 7

Phasing of Programme and Budgeting

*Please refer to the “Fund Utilization pattern component wise in % under IWMP” letter attached in the Annexure.

Table No. 7.1: Phasing of the action plan

1	2	3	4	5	6		7		8		9		10		11	
S. N o	Compo nent	Activities	Uni t	Unit Cost (Rs. In Lakh)	1 year		2 nd year		3 rd year		4 th year		5 th year		Total	
					Phy (No)	Fin (Rs.In Lakh)	Ph y (No)	Fin (Rs.In Lakh)	Phy (No)	Fin (Rs.In Lakh)	Phy (No)	Fin (Rs.In Lakh)	Phy (No)	Fin (Rs.In Lakh)	Phy (No)	Fin (Rs.In Lakh)
1	Entry Point Activities (2%)															
	i.	Renovation tanks (Farm Pond)	No.	3.00	2	6.00	--	--	--	--	--	--	--	--	2	6.00
	ii.	Drinking water	No.	--	--	--	--	--	--	--	--	--	--	--	--	--
	iii.	Community Drinking System (Ring Well)	No.	0.65	2	1.30	--	--	--	--	--	--	--	--	2	1.30
	iv.	Others (Community Hall)	No.	3.50	2	7.00	--	--	--	--	--	--	--	--	2	7.00
	v.	Others (Sanitary Latrine)	No.	2.80	1	2.80	--	--	--	--	--	--	--	--	1	2.80
	vi.	Others (Plantation)	No.	--	430	4.90	--	--	--	--	--	--	--	--	430	4.90
		Sub Total of Entry Point Activity				22.00	--	--	--	--	--	--	--	--	--	22.00
2.	Preparation of DPR (1%)				1	11.00	--	--	--	--	--	--	--	--	1	11.00
	Sub Total of DPR				1	11.00	--	--	--	--	--	--	--	1	11.00	

1	2	3	4	5	6		7		8		9		10		11	
S. No	Component	Activities	Unit	Unit Cost (Rs. In Lakh)	1 year		2 nd year		3 rd year		4 th year		5 th year		Total	
					Phy (No)	Fin (Rs.In Lakh)	Phy (No)	Fin (Rs.In Lakh)	Phy (No)	Fin (Rs.In Lakh)	Phy (No)	Fin (Rs.In Lakh)	Phy (No)	Fin (Rs.In Lakh)	Phy (No)	Fin (Rs.In Lakh)
3	Institution & Capacity Building (3%)		Unit	Unit Cost	1 year		2 nd year		3 rd year		4 th year		5 th year		Total	
				(Rs.)	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
		Poor HHs in Watersheds to be covered under SHGs														
		SC	No.		124		42		42		25		25		258	
		ST	No.		1682		528		528		421		421		3580	
		BC	No.		0		0		0		0		0		0	
		OC	No.		115		43		32		25		42		257	
		Awareness Generation (events) to be conducted														
		Pamphlets distribution	No.	0.0001	2022	0.2022	-	-	-	-	-	-	-	-	2022	0.2022
		Wall posters	No.	0.004	100	0.40	-	-	-	-	-	-	-	-	100	0.40
		Small Group meetings	No.	0.0125	-	-	10	0.125	10	0.125	5	0.0625	5	0.0625	30	0.375
		Others- 1.Mass meeting in Project level	No.	0.27	1	0.27	-	-	-	-	-	-	-	-	1	0.27
		2.Mass meeting in MWS level	No.	0.05	4	0.20	3	0.15	3	0.15	-	-	-	-	10	0.50

1	2	3	4	5	6		7		8		9		10		11	
S. No	Component	Activities	Unit	Unit Cost (Rs. In Lakh)	1 year		2 nd year		3 rd year		4 th year		5 th year		Total	
					Phy (No)	Fin (Rs.In Lakh)	Phy (No)	Fin (Rs.In Lakh)	Phy (No)	Fin (Rs.In Lakh)	Phy (No)	Fin (Rs.In Lakh)	Phy (No)	Fin (Rs.In Lakh)	Phy (No)	Fin (Rs.In Lakh)
		3.Mass meeting in Village level	No.	0.05	15	0.75	5	0.25	5	0.25	-	-	-	-	25	1.25
		Formation of UGs	No.	0.0025	30	0.075	20	0.05	20	0.05	10	0.025	10	0.025	90	0.2250
		No. of women	No.													
		No. of men	No.													
		Formation of SHGs	No.	0.00225	500	1.10	-	-	-	-	-	-	-	-	500	1.10
		No. of women	No.													
		No. of men	No.													
		Formation of Watershed Committee	No.	0.25	4	1.00	-	-	-	-	-	-	-	-	4	1.00
		No. of women	No.													
		No. of men	No.													
		Regular Meetings to be conducted														
		Watershed Committee	No.	0.00375	30	0.1125	10	0.0375	10	0.0375	5	0.01875	5	0.01875	60	0.2250
		UGs/LGs	No.	0.01	-	-	20	0.20	20	0.20	10	0.10	10	0.10	60	0.60
		VO/SHGs	No.	0.0125	-	-	30	0.375	30	0.375	20	0.25	20	0.25	100	1.25
		Gram Panchayat	No.													

1	2	3	4	5	6		7		8		9		10		11	
S. No	Component	Activities	Unit	Unit Cost (Rs. In Lakh)	1 year		2 nd year		3 rd year		4 th year		5 th year		Total	
					Phy (No)	Fin (Rs.In Lakh)	Phy (No)	Fin (Rs.In Lakh)	Phy (No)	Fin (Rs.In Lakh)	Phy (No)	Fin (Rs.In Lakh)	Phy (No)	Fin (Rs.In Lakh)	Phy (No)	Fin (Rs.In Lakh)
		Registration of WC	No.	0.25	4	1.00	-	-	-	-	-	-	-	-	4	1.00
		Self Monitoring events (planning, review of activities through tool)	No.	0.05	8	0.40	4	0.02	4	0.02	2	0.10	2	0.10	20	0.64
		Social Audit events	No.	0.025	-	-	3	0.075	3	0.075	2	0.05	2	0.05	10	0.25
		Trainings & Exposures														
		On Institutional & Capacity Building	No. Trgs	0.30	14	4.2966	3	0.93319	3	0.93319	1	0.30	1	0.30	22	6.76298
		Women	No.													
		Men	No.													
		On Gender	No. trgs													
		Women	No.													
		Men	No.													
		On Natural Resource Management	No. trgs	0.357	8	2.856	2	0.6466	2	0.6466	1	0.357	1	0.357	14	4.2166
		Women	No.													
		Men	No.													

1	2	3	4	5	6		7		8		9		10		11	
S. No	Component	Activities	Unit	Unit Cost (Rs. In Lakh)	1 year		2 nd year		3 rd year		4 th year		5 th year		Total	
					Phy (No)	Fin (Rs.In Lakh)	Phy (No)	Fin (Rs.In Lakh)	Phy (No)	Fin (Rs.In Lakh)	Phy (No)	Fin (Rs.In Lakh)	Phy (No)	Fin (Rs.In Lakh)	Phy (No)	Fin (Rs.In Lakh)
		On Enterprise Promotion (Livelihoods/ Micro-enterprises)	No. trgs	0.23	4	0.9857	4	0.9857	4	0.9857	2	0.56075	2	0.56075	16	4.0786
		Women	No.													
		Men	No.													
		On Productivity Enhancement	No.	0.213	4	0.852	4	0.852	4	0.852	2	0.426	2	0.426	16	3.4080
		Women	No.													
		Men	No.													
		Exposure Visits	Nos	2.00	1	2.00	-	-	-	-	-	-	-	-	1	2.00
		Women	No.													
		Men	No.													
		Participation in Exhibition	No.	0.30	-	-	1	0.30	1	0.30	-	-	-	-	2	0.60
		Women	Nos													
		Men	No.													
		Seminar & Workshop	No.	0.50	-	-	1	0.50	1	0.50	1	0.50	1	0.50	4	2.00
		Women	No.													

1	2	3	4	5	6		7		8		9		10		11	
S. No	Component	Activities	Unit	Unit Cost (Rs. In Lakh)	1 year		2 nd year		3 rd year		4 th year		5 th year		Total	
					Phy (No)	Fin (Rs.In Lakh)	Phy (No)	Fin (Rs.In Lakh)	Phy (No)	Fin (Rs.In Lakh)	Phy (No)	Fin (Rs.In Lakh)	Phy (No)	Fin (Rs.In Lakh)	Phy (No)	Fin (Rs.In Lakh)
		Men	Nos													
		Sub Total IB & CB {Do not sum Men & Women under CB events (a to f)} ²					16.50	5.50	5.50	2.75	2.75					33.00
4		Productivity Enhancement (15%)														
		Assam Lemon	No.	0.44	2	0.88	4	1.76	14	6.16	3	1.32	2	0.88		11.00
		Bananna Cultivation	No.	0.44	2	0.88	14	6.16	21	9.24	11	4.84	0	0.00		21.12
		Ginger Cultivation	No.	0.44	3	1.32	12	5.28	19	8.36	13	5.72	2	0.88		21.56
		Turmeric Cultivation	No.	0.44	4	1.76	14	6.16	19	8.36	19	8.36	4	1.76		26.40
		Fishy Culture and Development	No.	0.44	6	2.64	15	6.60	36	15.84	25	11.00	4	1.76		37.84
		Dairy Farming	No.	0.44	4	1.76	4	1.76	38	16.72	29	12.76	4	2.09		35.09
		Battle Nut Plantation	No.	0.44	4	1.76	12	5.28	3	1.32	6	2.75	2	0.88		11.99
		Sub-Total PE					11.00	33.00	66.00	46.75	8.25					165.00

5	Livelihood Activities for Asset Less Persons, Micro Enterprise and Business Development (15%)														
		Bicycle Repairing	No.	0.25	2	0.50	2	0.50	16	4.00	0	0	2	0.50	5.50
		Duckery	No.	0.25	8	2.00	16	4.00	36	9.00	52	13.00	8	2.00	30.00
		Goatery	No.	0.25	8	2.00	20	5.00	14	3.50	32	8.00	8	2.00	20.50
		Piggery	No.	0.25	6	1.50	18	4.50	56	14.00	32	8.00	6	1.50	29.50
		Weaving Centre	No.	0.25	4	1.00	8	2.00	42	10.50	20	5.00	4	1.00	19.50
		Diary Farming	No.	0.25	14	3.50	32	8.00	68	17.00	40	10.00	14	3.50	42.00
		Poultry	No.	0.25	2	0.50	14	3.50	32	8.00	22	5.50	2	0.50	18.00
		SUB TOTAL FOR LH				11.00		27.50		66.00		49.50		11.00	165.00
6	Natural Resource Management (47%)														
	I)	WHS (MI Works)													
	a	Check Dams	Nos.		3	51.00	--	--	--	--	--	--	--	3	51.00
	b	Percolation Tanks	Nos.	--	--	--	--	--	--	--	--	--	--	--	--
	c	Mini PTs	Nos.	--	--	--	--	--	--	--	--	--	--	--	--
	d	Farm Ponds	Nos.		4	59.00	6	99.00	3	25.00	1	6.00	--	--	14 0
	e	Gabion Structures	Nos.	--	--	--	--	--	--	--	--	--	--	--	--
	f	Feeder Channels	Nos.												

	g	Desilting	Cu. m	--	--	--	--	--	--	--	--	--	--	--	--	--
	h	Diversion Drains	Nos.	--	--	--	--	--	--	--	--	--	--	--	--	--
	i	Restoration of Old kuntas	Nos.	--	--	--	--	--	--	--	--	--	--	--	--	--
	j	Structures for Recharging drinking water sources	Nos.	--	--	--	--	--	--	--	--	--	--	--	--	--
	k	Water absorption trenches	RMT	--	--	--	--	--	--	--	--	--	--	--	--	--
	l	Check Weir	No.	--	--	--	--	--	--	--	--	--	--	--	--	--
	m	Sub Surface dams	No	--	--	--	--	--	--	--	--	--	--	--	--	--
	n	Nala bund	No	--	--	--	--	--	--	--	--	--	--	--	--	--
	o	Check wall	No	--	--	--	--	--	--	--	--	--	--	--	--	--
	p	Any other (specify----- -)														
	II	Soil Moisture Conservation (SMC)														
	a	Agri Bundh	CU M		26 00	5.80	15 40 0	30.50	150 00	28.50	3500	6.80	260 0	5.80		77.40
	b	Channel Cutting	CU M		15 00	18.00	15 00	18.00	112 50	20.47	2100	21.00	--	--		77.47
	c	Loose Boulders	No.													
	d	Graded bunding	CU M		90 00	16.00	--	--	107 00	20.80	--	--	--	--		36.80
	e	Bench terracing	RMT	--	--	--	--	--	--	--	--	--	--	--	--	--
	f	Vegetative barriers	Nos.	--	--	--	--	--	--	--	--	--	--	--	--	--

	g	Sunken pits	Nos.	--	--	--	--	--	--	--	--	--	--	--	--	--
	h	CCT / Staggered trenches	RMT	--	--	--	--	--	--	--	--	--	--	--	--	--
	I	Surface farm pond	No.	--	--	--	--	--	--	--	--	--	--	--	--	--
	j	Silt Application	Cu. m	--	--	--	--	--	--	--	--	--	--	--	--	--
	k	Others (Specify----- -)														
	III	Vegetative Measures														
	a	Block Plantation / Plantations in CPR	Ha.		--	--	1.5 0	4.95	1.5 0	4.95	--	--	--	--	--	9.90
	b	Agro Forestry (Plantations on bunds and in Agriculture lands)	Ac	--	--	--	--	--	--	--	--	--	--	--	--	--
	c	Fuel wood	Ac	--	--	--	--	--	--	--	--	--	--	--	--	--
	d	Nurseries Raising	No.	--	--	--	--	--	--	--	--	--	--	--	--	--
	e	Fodder (Bunds & CPR lands)	Ac.	--	--	--	--	--	--	--	--	--	--	--	--	--
	f	Avenue Plantation	Km	--	--	--	--	--	--	--	--	--	--	--	--	--
	g	Scattered planting	Nos.	--	--	--	--	--	--	--	--	--	--	--	--	--
	h	Horticulture	Ac.	--	--	--	--	--	--	--	--	--	--	--	--	--
	i	Foreshore plantation	Ac.	--	--	--	--	--	--	--	--	--	--	--	--	--
	j	Pasture development	Ac.	--	--	--	--	--	--	--	--	--	--	--	--	--
	k	Homestead Kitchen gardens	No.	--	--	--	--	--	--	--	--	--	--	--	--	--

	IV	Non conventional energy development														
	a	Bio gas	No.	--	--	--	--	--	--	--	--	--	--	--	--	--
	b	Solar lamps	No.	--	--	--	--	--	--	--	--	--	--	--	--	--
	c	Solar cookers	No.	--	--	--	--	--	--	--	--	--	--	--	--	--
	d	Solar heater	No.	--	--	--	--	--	--	--	--	--	--	--	--	--
	e	Others (specify)		--	--	--	--	--	--	--	--	--	--	--	--	--
	V	CPR Development		--	--	--	--	--	--	--	--	--	--	--	--	--
	a	Land development	Ac	--	--	--	--	--	--	--	--	--	--	--	--	--
	b	Canopy coverage (fuel/fodder/ afforestation)	Ac	--	--	--	--	--	--	--	--	--	--	--	--	--
	c	Others (specify)		--	--	--	--	--	--	--	--	--	--	--	--	--
	VI	MIP		--	--	--	--	--	--	--	--	--	--	--	--	--
	a	Drip irrigation	Ac.	--	--	--	--	--	--	--	--	--	--	--	--	--
	b	Sprinkler irrigation	Ac.	--	--	--	--	--	--	--	--	--	--	--	--	--
	VII	Innovative works/Measures (5% of NRM funds)	No.	--	--	--	--	--	--	--	--	--	--	--	--	--
	a		No.	--	--	--	--	--	--	--	--	--	--	--	--	--
	b		No.	--	--	--	--	--	--	--	--	--	--	--	--	--
	VIII	Rain Gauge	No.	--	--	--	--	--	--	--	--	--	--	--	--	--
	ix	Absorption wells	No	--	--	--	--	--	--	--	--	--	--	--	--	--
	x	Run off Gauges	No.	--	--	--	--	--	--	--	--	--	--	--	--	--

	Xi	Engineering Structure														
		R.C.C. Box Culvert	No.	--	--	--	1	8.55		--	2	13.00	--	--		20.00
		Boulder Pitching	M	--	--		60	15.00	60	15.00	--	--	--	--		30.00
		Loop Cutting	M3		16 20 0	25.43	--	--	--	--	--	--	--	--		
		Sub Total NRM:				176.00		176.00		104.50		33.00		27.50		517.00
7	Natural Resource Management Governance (2%)															
	I	Maintenance of NRM Assets														
	A	Meeting with the Members of GP along with PRI Members	No.	0.05	6	0.30	6	0.30	6	0.30	6	0.30			24	1.20
	B	Preparation of overall Project Development Plan	No.	0.05	4	0.20	4	0.20	4	0.20	4	0.20			16	0.80
	C	Meeting for Annual Audit under Budgeting with GP and PRI members	No.	0.05			8	0.40	8	0.40	8	0.40			24	1.20
	II	Water Budgeting, Management/Regulatory Norms and Governance														
	A	Ground Water Monitoring (Twice in a year)	No.	0.10	14	1.40	10	1.00	10	1.00	10	1.00			44	4.40
	B	Training for the Monitoring Exercise	No.	0.20	3	0.60	3	0.60	3	0.60	3	0.60			12	2.40

	III	Protection and Regulation/ Regeneration of Common Lands (For the protection of the upper reaches of the watershed slopes)														
	A	Meeting with Departmental Officers and Staff of Forest, Agriculture, Veterinary, etc. for the protection of the upper reaches of the watershed slopes	No.	0.10	12	1.20	12	1.20	12	1.20	12	1.20			48	4.80
	B	Formation of User Group and Mobility	No.	0.03	40	1.20	40	1.20	40	1.20	40	1.20			160	4.80
	C	Formation of Voluntary organization and mobility	No.	0.03	20	0.60	20	0.60	20	0.60	20	0.60			80	2.40
Sub Total of NRM Governance						5.50		5.50		5.50		5.50				22.00

8	Administration (Management Cost) (10%)													
	a	WCDC Level	Rs.		1.00		1.00		1.00		1.00		1.00	5.00
	b	PIA / WDT Level.												
		Honorarium/Specialist /wages to temporary PIA staff	Rs.	0.15	1.80		1.80		1.80		1.80		1.80	9.00
		T.A/D.A.	Rs.		3.50		3.50		3.50		3.50		3.50	17.50
		Office contingencies.	Rs.		3.80		3.80		3.80		3.80		3.80	19.00
		Pol	Rs.		3.52		3.52		3.52		3.52		3.52	17.60
	c	WC / Village Level												
		Honorarium to village level Workers	Rs.	0.10	2.40		2.40		2.40		2.40		2.40	12.00
		Honorarium/Salary to Secy.	Rs.	0.04	0.48		0.48		0.48		0.48		0.48	2.40
		Office contingencies.	Rs.		2.50		2.50		2.50		2.50		2.50	12.50
		T.A/D.A.	Rs.		3.00		3.00		3.00		3.00		3.00	15.00
	Sub Total of Administration (Management Cost)				22.00		22.00		22.00		22.00		22.00	110.00
9	Monitoring (1%)		Rs.		--		2.75		2.75		2.75		2.75	11.00
	Sub Total of Monitoring				--		2.75		2.75		2.75		2.75	11.00
10	Evaluation (1%)		Rs.		--		2.75		2.75		2.75		2.75	11.00
	Sub Total of Evaluation				--		2.75		2.75		2.75		2.75	11.00

11	Consolidation Phase				--	--	--	--	--	--	--	33.00	--	33.00
Sub Total of Consolidation Phase				--	--	--	--	--	--	--	--	33.00	--	33.00
	Grand Total (sum of all sub-totals 1 to 11)				275.00		275.00		275.00		165.00		110.00	1100.00
12	WDF Collected				9.90		11.825		11.825		6.4626		2.3375	42.35

Table No. 7.2 Estimated Benefit Cost Ratio

S.No.	Name of the activity	Total Cost (Rs.)	Total Benefit expected * (Rs.)	BCR	Remarks
	EPA	1728000	1900800	1.1	
	NRM	24192314	35320778	1.46	
	PE	4320000	7344000	1.7	
	Livelihood for Asset less	3888000	6998400	1.8	
	Institution and Capacity building	450000	540000	1.2	
	Overall	34578314	52103978	1.49	

***kindly relate this with table no. 9.2 (expected outcomes)**

Chapter 8

Consolidation and completion of various works

Table No. 8.1: Consolidation of Action Plan

1	2	Implementation Phase								Consolidation/ex it Phase		TOTAL
		1 year		2 nd year		3 rd year		4 th year		5 th year		
		Phy (No)	Fin (Rs. In Lakh)	Phy (No)	Fin (Rs. In Lakh)							
1.	Entry Point Activities (2%)	8	22.00	--	--	--	--	--	--	--	--	22.00
2.	DPR Preparation by PIA(1%)	1	11.00	--	--	--	--	--	--	--	--	11.00
3.	Institution & Capacity Building (3%)		16.50	--	5.50		5.50		2.75		2.75	33.00
4.	Production System (15%)		11.00		33.00		66.00		46.75		8.25	165.00
5.	Livelihoods for Assetless (15%)		11.00		27.50		66.00		49.50		11.00	165.00
6.	Natural Resource Management (47%)		176.00		176.00		104.50		33.00		27.50	517.00

7.	Natural Resource Management and Governance (2 %)		5.50		5.50		5.50		5.50		0.0	22.00
8.	Consolidation and Withdrawal Phase (3%)		0.0		0.0		0.0		0.0		33.00	33.00
9.	Administration											
	Management Cost (10 %)		22.00		22.00		22.00		22.00		22.00	110.00
	Monitoring and Evaluation (2%)		0.0		5.50		5.50		5.50		5.50	22.00
TOTAL			275.00		275.00		275.00		165.00		110.00	1100.00

CHAPTER – 9

EXPECTED OUTCOMES

9.1 Describe in detail the “Expected Outcomes”

Table No. 9.2: Summarize in the table given below (Quantifiable indicators)

1	2	3	4	5	6
S. No.	Item	Unit of measurement	Pre-project Status	Expected Post-project Status	Remarks
1	Status of water table (Depth to Ground water level)	Meters	4	3	
2	Ground water structures repaired/ rejuvenated	No.	N/A	N/A	
3	Quality of drinking water	Description	Iron	Good	
4	Availability of drinking water	Description	Not Available for all Household	Available for maximum No. of Household	
5	Increase in irrigation potential	Hec.	632	3247	
6	Change in cropping/ land use pattern	Description	Single Crop	Double Crop/ Multiple Crop	
7	Area under agricultural crop	Hec.	6563.76	7028.00	
	I	Area under single crop	Hec.	4610.36	4795.00
	ii	Area under double crop	Hec.	1320.40	1410.00
	iii	Area under multiple crop	Hec.	633.00	823.00

8	Net increase in crop production area	Hec.	6563.76	7028.00	
9	Increase in area under Vegetation/Forest	Hec.	85	115	
10	Increase in area under horticulture	Hec.	124	168	
11	Increase in area under fuel	Hec.	52	85	
12	Increase in area under Fodder	Hec.	--	15	
13	Increase in milk production	Litres/day	854	1500	
14	Environmental Impact Change in Soil Loss	Ton/Ha./Year	11	7	
	Perenniality of flow and change in Run-off		852	551	
	Recharge of ground water	Mtr	5.2	4.7	
14	No. of SHGs Promoted	No.	152	485	
15	Increase in no. of livelihoods	No.	239	421	
16	Increase in income	Rs. In Lakh	0.35	0.85	
17	Status of Migration	No.	2265	1320	
18	SHG Federations formed	No.	--	--	
19	Credit linkage with banks	Rs. In Lakh	35.00	80.00	
20	Resource use agreements		--	--	
21	WDF collection & management	Rs. In Lakh	--	34.10 Lakh	
22	Summary of lessons learnt	Description	Poor	Markable	

Table No.9.3: Backward and Forward Linkages

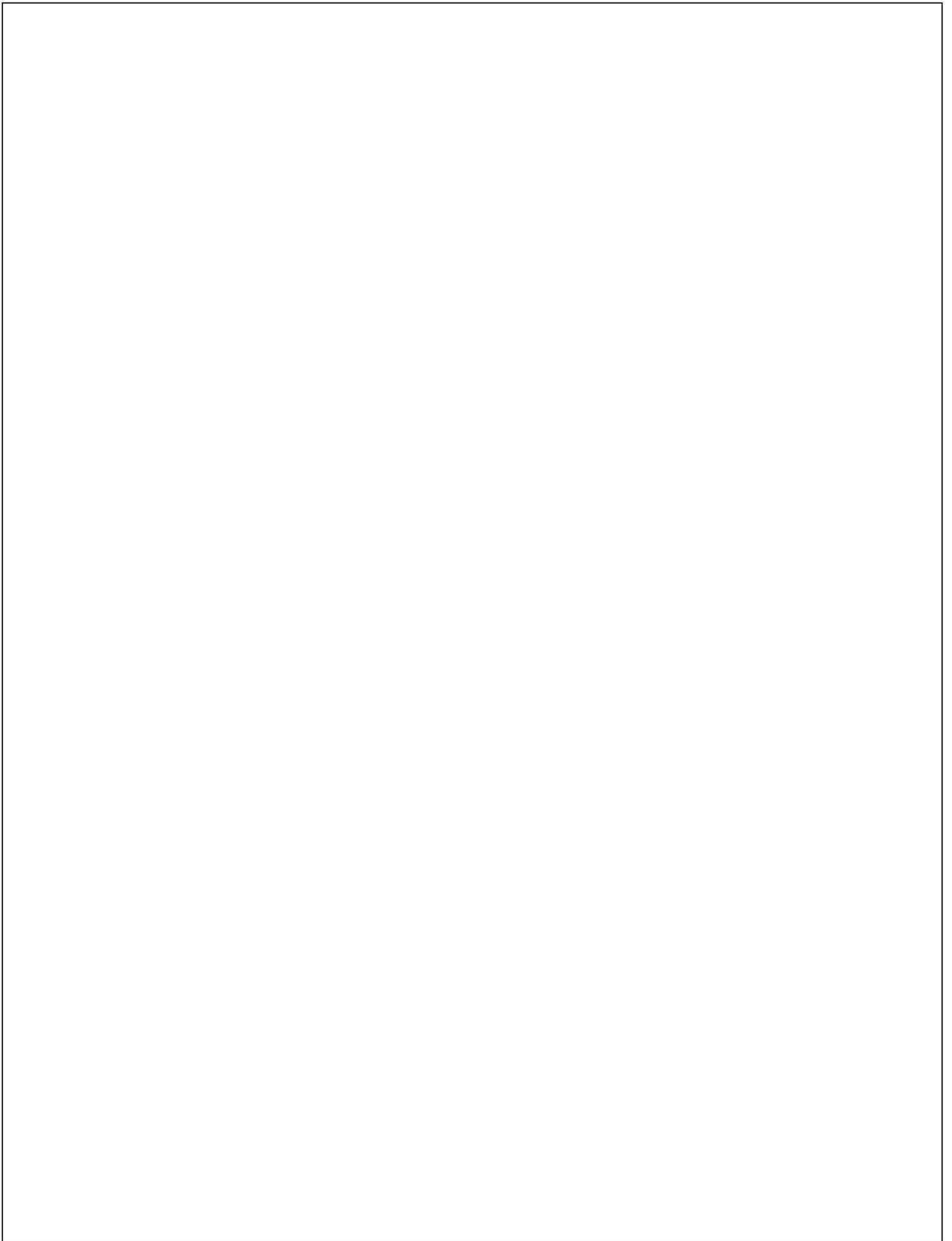
5		6	7
Type of Marketing Facility	Name of the institution	Pre-project (no.)	Expected post project status
(A) Backward linkages	Govt. of Assam	Nil	Will be done
(i) Seed certification	Co-operative and Agriculture Dept.	Nil	Strong Seed supply system will be developed
(ii) Seed supply system	Co-operative and local fertilizer dealer	2	Strong Fertilizer supply system will be developed
(iii) Fertilizer supply system	Local Pesticide Dealer	4	Strong Pesticide supply system will be developed
(iv) Pesticide supply system	Co-operative Bank, SHG, Local Bank, Nodal Bank etc.	Nil	Internal Credit link will be developed among SHG, Local Bank, Co-operative Bank etc. and external credit link from commercial / nodal banks.
(v) Credit institutions	Water User Group	Nil	Will be developed
(vi) Water supply	KVK, ATMA, Agriculture Dept., NGOs	3	Strong extension services will be developed among all institutions
(vii) Extension services	SHG, Horticulture Nursery, Local Nursery	6	Strong extension services will be developed among all institutions
(viii) Nurseries	Ag Deptt	2	Will Continued
(ix) Tools/machinery suppliers	Ag Deptt, Vetty Dept.	Nil	Will Continued
(x) Price Support system	Local wage labour	1	Strong network will be developed
(xi) Labour		772	Strong network will be developed
(xii) Any other (please specify)	Local level	Nil	Strong network

			will be developed
(B) Forward linkages	Local level	Nil	Strong network will be developed
(i) Harvesting/threshing machinery	Local level	Nil	Strong network develop
(ii) Storage (including cold storage)	Local level	1	Strong network develop
(iii) Road network	Local committee, Cooperative	3	Institution will take initiative so that beneficiaries will get better opportunities.
(iv) Transport facilities	Local committee, Cooperative	2	Institution will take initiative so that beneficiaries will get better opportunities.
(v) Markets / Mandis	Local committee, Cooperative	3	Institution will take initiative so that beneficiaries will get better opportunities.
(vi) Agro and other Industries		Nil	
(vii) Milk and other collection centres		Nil	
(viii) Labour		Nil	
(ix) Any other (please specify)		Nil	

ANNEXURE- I

Sl No.	Name of watershed	Village Code No.	Name of Village
1	Na Bil	1164000	BOGABIL
2	Pani Gaon	1164400	CHAMDHARA
3	Pani Gaon	1165600	Moronakuri
4	Pani Gaon	1165400	KARAIANI
5	Na Bil	1163100	TUPIA GRANT
6	Na Bil	1163800	TUPIA GAON
7	Na Bil	1162200	AGRIPAM
8	Na Bil	1162300	GORBIL
9	Na Bil	1163900	DHALAI BIL
10	Gataimara	1168700	Chaki Ghat
11	Pani Gaon	1164100	TARAJAN
12	Na Bil	1163000	NA-BIL
13	Na Bil	1164500	BORMOTA
14	Na Bil	1164600	NO.1 BARPATHAR
15	Pani Gaon	1165100	MURHA DAL
16	Pani Gaon	1165200	NO.2 BARPATHAR
17	Pani Gaon	1165300	PANIGAON
18	Pani Gaon	1165800	Solaguri
19	Pani Gaon	1165700	Garikuri
20	Pani Gaon	1165500	TANGANA JHAR

21	Ghahibaz	1166600	Nandikeswar
22	Ghahibaz	1166700	Ghahibaz
23	Ghahibaz	1166800	Tanganajhar Kaibarta
24	Ghahibaz	1167300	Major Chuk
25	Ghahibaz	1167200	Niz-Chilabandha
26	Ghahibaz	1166900	Bharali Chapori
27	Ghahibaz	1167100	Chilabandha Sonari
28	Gataimara	1168400	No.1 Gataimara
29	Ghahibaz	1168300	Hatbor
30	Gataimara	1167000	No.2 Gataimara
31	Gataimara	1168600	Goal Gaon
32	Gataimara	1168500	No.3 Gataimara



ANNEXURE-A
Five Year Budget Details of Natural Resource Management (NRM) 47%
1st Year Plan

Sl No	Name of Project	Name of Activity	Name of Schemes	Name of MWS	Name of Proposed villages	WDF Contribution (Rs. In Lakh)	Alloted Target	
							Physical	Financial (Rs. In Lakh)
1	Sonitpur-1/2021-22 (Jiyabharali Part-I)	R.C.C. Check Dam	Construction of R.C.C. Check Dam at Gotaimari	Gotaimari	Gotaimari	0.85	1 No.	17.00
2			Construction of R.C.C. Check Dam at Kuwamara	Gotaimari	Kuwamara	0.85	1 No.	17.00
3			Construction of R.C.C. Check Dam at Gotaimari	Gotaimari	Gotaimari	0.85	1 No.	17.00
4		Earthen Agri Bundh	Construction of Agri Bundh at 2 No. Barpathar	Panigaon	2 No. Barpathar	0.29	2600 Cum	5.80
5		Earthen Guide Bundh	Construction of Guide Bundh at Nandikeswar	Ghahibaz	Nandikeswar	0.80	9000 Cum	16.00
6		R.C.C. Brick Channel	Construction of Brick Channel at Bharali Chapari	Ghahibaz	Bharali Chapari	0.90	400 Rm	18.00
7		Excavation of Farm Pond (New)	Excavation of Farm Pond at Bharali Chapari	Ghahibaz	Bharali Chapari	0.90	1 No.	18.00
8			Excavation of Farm Pond at Nandikeswar	Ghahibaz	Nandikeswar	0.50	1 No.	10.00
9			Excavation of farm Pond at Nabill (Towbhanga)	Nabill	Towbhanga	0.90	1 No.	18.00
10			Excavation of Farm Pond at No. 1 Gotaimari	Gotaimari	No. 1 Gotaimari	0.65	1 No.	13.00
11		Loop Cutting	Loop Cutting at Nabill and Towbhanga	Nabill	Nabill	1.31	16200 Cum	26.20
TOTAL						8.80		176.00

ANNEXURE-A
Five Year Budget Details of Natural Resource Management (NRM) 47%
2Nd Year Plan

Sl No.	Name of Project	Name of Activity	Name of Schemes	Name of MWS	Name of Proposed villages	WDF Contribution (Rs. In Lakh)	Alloted Target	
							Physical	Financial (Rs. In Lakh)
1	Sonitpur-1/2021-22 (Jiyabharali Part-I)	Plantation (Horticulture)	Horticulture Plantation at Nandikeswar Dewaloi	Ghahibaz	Nandikeswar	0.2475	1.50 Ha.	4.95
2		Earthen Agri Bundh	Construction of Agri Bundh at Na Bill Krishi Pam	Nabill	Nabill	0.275	2000 M3	5.50
3			Construction of Agri Bundh at Bharali Chapari (Chenichuk)	Ghahibaz	Bharali Chapari	0.7	7200 Cum	14.00
4			Construction of Agri Bundh at Gotaimari	Gotaimari	Gotaimari	0.55	5800 Cum	11.00
5		R.C.C. Brick Channel	Construction of Brick Channel at Bharali Gaon	Ghahibaz	Bharali Gaon	0.9	400 Rm	18.00
6		Excavation of Farm Pond (New)	Excavation of Farm Pond at Gotaimari	Gotaimari	Gotaimari	0.95	1 No.	19.00
7			Excavation of Farm Pond at Gotaimari	Gotaimari	Gotaimari	0.95	1 No.	19.00
8			Excavation of Farm Pond at Gotaimari	Gotaimari	Gotaimari	0.95	1 No.	19.00
9			Excavation of Farm Pond at Goal Gaon	Gotaimari	Goal Gaon	0.9	1 No.	18.00
10			Excavation of Farm Pond at Bharali Chapari	Ghahibaz	Bharali Chapari	0.9	1 No.	18.00
11			Excavation of Farm Pond at Major Chuk	Ghahibaz	Major Chuk	0.3	1 No.	6.00

12		R.C.C. Box Culvert	Construction of R.C.C. Box Culvert at Nabill (Das Gaon)	Nabill	Nabill	0.4275	40 M2	8.55
13		Boulder Pitching	Boulder Pitching at Tarajan	Panigaon	Tarajan	0.75	60 M	15.00
TOTAL						8.80		176.00

ANNEXURE-A
Five Year Budget Details of Natural Resource Management (NRM) 47%
3rd Year Plan

Sl No.	Name of Project	Name of Activity	Name of Schemes	Name of MWS	Name of Proposed villages	WDF Contribution (Rs. In Lakh)	Alloted Target	
							Physical	Financial (Rs. In Lakh)
1	Sonitpur-1/2021-22 (Jiyabharali Part-I)	Earthen Agri Bundh	Construction of Earthen Agri Bundh at Bormota	Nabill	Bormota	0.2850	2050 M3	5.70
2			Construction of Earthen Agri Bundh at Maranakuri	Panigaon	Maranakuri	0.6490	5600 M3	12.98
3			Construction of Earthen Agri Bundh at Chamdhara	Ghahibaz	Chamdharma	0.3400	2500 M3	6.80
4		Earthen Guide Bundh	Construction of Earthen Guide Bundh at Gotaimari	Gotaimari	Gotaimari	0.3400	5000 M3	6.80
5			Construction of Earthen Guide Bundh at Chaki Ghat	Gotaimari	Chaki Ghat	0.3400	2500 M3	6.80
6		R.C.C. Brick Channel	Construction of Brick Channel at Maranakuri	Panigaon	Maranakuri	0.6300	280 Rm	12.60
7		Excavation of Farm Pond (New)	Excavation of Farm Pond at Jugibasti		Jugibasti	0.6500		13.00
8			Excavation of Farm Pond at Bakula (Nabill)	Nabill	Bakula	0.3000	3157 M3	6.00
9			Excavation of Farm Pond at Bormota	Nabill	Bormota	0.3000	3157 M3	6.00

10		Plantation (Horticulture)	Horticulture Plantation at Nabill (Towbhanga L.P. School)	Nabill	Nabill	0.2475	1.50 Ha.	4.95
11		Boulder Pitching	Boulder Pitching at Nabill	Nabill	Nabill	0.7500	60 M	15.00
12		Earthen Drainage Channel	Construction of Earthen Drainage Channel at Hatbor	Ghahibaz	Hatbor	0.3935	4142 M3	7.87
		TOTAL				5.2250		104.50

ANNEXURE-A
Five Year Budget Details of Natural Resource Management (NRM) 47%
4th Year Plan

Sl No.	Name of Project	Name of Activity	Name of Schemes	Name of MWS	Name of Proposed villages	WDF Contribution (Rs. In Lakh)	Alloted Target	
							Physical	Financial (Rs. In Lakh)
1	Sonitpur-1/2021-22 (Jiyabharali Part-I)	R.C.C. Brick Channel	Construction of Brick Channel at Bormota	Nabill	Bormota	0.35	155 Rm	7.00
2		Excavation of Farm Pond (New)	Excavation of Farm Pond at Chamdhara	Ghahibaz	Chamdhara	0.30	3157 M3	6.00
3		Earthen Drainage Channel	Construction of Earthen Drainage Channel at Bormota	Nabill	Bormota	0.35	3684 M3	7.00
4			Construction of Earthen Drainage Channel at No. 1 Gotaimari	Gotaimari	No.1 Gotaimari	0.35	3684 M3	7.00
5		Earthen Agri Bundh	Construction of Earthen Agri Bundh at Chamdhara	Ghahibaz	Chamdhara	0.30	2500 M3	6.00
TOTAL						1.65		33.00

ANNEXURE-A
Five Year Budget Details of Natural Resource Management (NRM) 47%
5th Year Plan

Sl No.	Name of Project	Name of Activity	Name of Schemes	Name of MWS	Name of Proposed villages	WDF Contribution (Rs. In Lakh)	Alloted Target	
							Physical	Financial (Rs. In Lakh)
1	Sonitpur-1/2021-22 (Jiyabharali Part-I)	Earthen Agri Bundh	Construction of Earthen Agri Bundh at Barpathar No.1	Panigaon	Barpathar No.1	0.2900	2100 M3	5.80
2		R.C.C. Box Culvert	Construction of R.C.C. Box Culvert at Maranakuri	Panigaon	Maranakuri	0.3250	35 M2	6.50
3			Construction of R.C.C. Box Culvert at Maranakuri	Panigaon	Maranakuri	0.3250	36 M2	6.50
4		R.C.C. Brick Channel	Construction of Brick Channel at Gotaimari No. 1	Gotaimari	Gotaimari No. 1	0.4350	193 Rm	8.70
TOTAL						1.3750		27.50

ANNEXURE-B
Five Year Budget Details of Productivity Enhancement (15%)
1st Year

Sl No.	Name of District	Name of Project	Name of MWS	Activity	Target		Remarks	
					Phy (Unit)	Fin (RS. In Lakhs)		
1	Sonitpur	Sonitpur-1/2021-22 (Jiyabharali Part-I)	Nabill	Battle Nut Plantation	1	0.44		
2				Fishy Culture and Development	1	0.44		
3				Dairy Farming	1	0.44		
					Sub Total	3	1.32	
4			Gotaimari	Assam Lemon	1	0.44		
5				Ginger Cultivation	1	0.44		
6				Turmeric Cultivation	1	0.44		
7				Battle Nut Plantation	1	0.44		
8				Fishy Culture and Development	2	0.88		
9				Dairy Farming	1	0.44		
					Sub Total	7	3.08	
10			Ghahibaz	Assam Lemon	1	0.44		
11				Bananna Cultivation	1	0.44		
12				Ginger Cultivation	1	0.44		
13				Turmeric Cultivation	2	0.88		
14				Battle Nut Plantation	1	0.44		
15				Fishy Culture and Development	2	0.88		
16				Dairy Farming	1	0.44		
					Sub Total	9	3.96	
17			Panigaon	Bananna Cultivation	1	0.44		
18				Ginger Cultivation	1	0.44		
19				Turmeric Cultivation	1	0.44		
20	Battle Nut Plantation	1		0.44				
21	Fishy Culture and Development	1		0.44				
22	Dairy Farming	1		0.44				
			Sub Total	6	2.64			
TOTAL				25	11.00			

ANNEXURE-B
Five Year Budget Details of Productivity Enhancement (15%)
2nd Year

Sl No.	Name of District	Name of Project	Name of MWS	Activity	Target		Remarks
					Phy (Unit)	Fin (RS. In Lakhs)	
1	Sonitpur	Sonitpur-1/2021-22 (Jiyabharali Part-I)	Nabill	Assam Lemon	1	0.44	
2				Bananna Cultivation	2	0.88	
3				Ginger Cultivation	2	0.88	
4				Turmeric Cultivation	5	2.20	
5				Battle Nut Plantation	2	0.88	
6				Fishy Culture and Development	2	0.88	
7				Dairy Farming	1	0.44	
				Sub Total	15	6.60	
8			Gotaimari	Assam Lemon	1	0.44	
9				Bananna Cultivation	4	1.76	
10				Ginger Cultivation	4	1.76	
11				Turmeric Cultivation	2	0.88	
12				Battle Nut Plantation	4	1.76	
13				Fishy Culture and Development	4	1.76	
14				Dairy Farming	1	0.44	
				Sub Total	20	8.80	
15			Ghahibaz	Assam Lemon	1	0.44	
16				Bananna Cultivation	6	2.64	
17				Ginger Cultivation	4	1.76	
18				Turmeric Cultivation	4	1.76	
19				Battle Nut Plantation	4	1.76	
20				Fishy Culture and Development	5	2.20	
21				Dairy Farming	1	0.44	
				Sub Total	25	11.00	
22			Panigaon	Assam Lemon	1	0.44	
23				Bananna Cultivation	2	0.88	
24				Ginger Cultivation	2	0.88	
25				Turmeric Cultivation	3	1.32	
26	Battle Nut Plantation	2		0.88			
27	Fishy Culture and Development	4		1.76			
28	Dairy Farming	1		0.44			
	Sub Total	15		6.60			
TOTAL					75	33.00	

ANNEXURE-B
Five Year Budget Details of Productivity Enhancement (15%)
3Rd Year

Sl No.	Name of District	Name of Project	Name of MWS	Activity	Target		Remarks
					Phy (Unit)	Fin (RS. In Lakhs)	
1	Sonitpur	Sonitpur-1/2021-22 (Jiyabharali Part-I)	Nabill	Assam Lemon	3	1.32	
2				Bananna Cultivation	3	1.32	
3				Ginger Cultivation	4	1.76	
4				Turmeric Cultivation	4	1.76	
5				Fishy Culture and Development	5	2.20	
6				Dairy Farming	5	2.20	
				Sub Total	24	10.56	
7			Gotaimari	Assam Lemon	4	1.76	
8				Bananna Cultivation	8	3.52	
9				Ginger Cultivation	6	2.64	
10				Turmeric Cultivation	6	2.64	
11				Battle Nut Plantation	3	1.32	
12				Fishy Culture and Development	14	6.16	
13				Dairy Farming	16	7.04	
			Sub Total	57	25.08		
14			Ghahibaz	Assam Lemon	4	1.76	
15				Bananna Cultivation	7	3.08	
16				Ginger Cultivation	6	2.64	
17				Turmeric Cultivation	6	2.64	
18				Fishy Culture and Development	11	4.84	
19				Dairy Farming	11	4.84	
				Sub Total	45	19.80	
20			Panigaon	Assam Lemon	3	1.32	
21				Bananna Cultivation	3	1.32	
22				Ginger Cultivation	3	1.32	
23	Turmeric Cultivation	3		1.32			
24	Fishy Culture and Development	6		2.64			
25	Dairy Farming	6		2.64			
	Sub Total	24	10.56				
	TOTAL		150	66.00			

ANNEXURE-B
Five Year Budget Details of Productivity Enhancement (15%)
4Th Year

Sl No.	Name of District	Name of Project	Name of MWS	Activity	Target		Remarks	
					Phy (Unit)	Fin (RS. In Lakhs)		
1	Sonitpur	Sonitpur-1/2021-22 (Jiyabharali Part-I)	Nabill	Assam Lemon	3	1.32		
2				Bananna Cultivation	2	0.88		
3				Ginger Cultivation	3	1.32		
4				Turmeric Cultivation	4	1.76		
5				Fishy Culture and Development	4	1.76		
6				Battle Nut Plantation	1	0.44		
7				Dairy Farming	6	2.64		
					Sub Total	23	10.12	
8			Gotaimari	Bananna Cultivation	4	1.76		
9				Ginger Cultivation	5	2.20		
10				Turmeric Cultivation	7	3.08		
11				Battle Nut Plantation	3	1.32		
12				Fishy Culture and Development	11	4.84		
13				Dairy Farming	11	4.84		
					Sub Total	41	18.04	
14			Ghahibaz	Bananna Cultivation	3	1.32		
15				Ginger Cultivation	3	1.32		
16				Turmeric Cultivation	4	1.76		
17				Fishy Culture and Development	6	2.64		
18				Battle Nut Plantation	1	0.44		
19				Dairy Farming	8	3.52		
					Sub Total	25	11.00	
20			Panigaon	Bananna Cultivation	2	0.88		
21				Ginger Cultivation	2	0.88		
22				Turmeric Cultivation	4	1.76		
23	Fishy Culture and Development	4		1.76				
24	Battle Nut Plantation	1		0.55				
25	Dairy Farming	4		1.76				
Sub Total				17	7.59			
TOTAL				106	46.75			

ANNEXURE-B
Five Year Budget Details of Productivity Enhancement (15%)
5Th Year

Sl No.	Name of District	Name of Project	Name of MWS	Activity	Target		Remarks
					Phy (Unit)	Fin (RS. In Lakhs)	
1	Sonitpur	Sonitpur-1/2021-22 (Jiyabharali Part-I)	Nabill	Assam Lemon	1	0.44	
2				Turmeric Cultivation	1	0.44	
3				Fishy Culture and Development	1	0.44	
4				Battle Nut Plantation	1	0.44	
5				Dairy Farming	1	0.44	
			Sub Total	5	2.20		
6			Gotaimari	Assam Lemon	1	0.44	
7				Ginger Cultivation	2	0.88	
8				Turmeric Cultivation	1	0.44	
9				Battle Nut Plantation	1	0.44	
10				Fishy Culture and Development	1	0.44	
11				Dairy Farming	1	0.77	
			Sub Total	7	3.41		
12			Ghahibaz	Turmeric Cultivation	1	0.44	
13				Fishy Culture and Development	1	0.44	
14				Dairy Farming	1	0.44	
			Sub Total	3	1.32		
15	Panigaon	Turmeric Cultivation	1	0.44			
16		Fishy Culture and Development	1	0.44			
17		Dairy Farming	1	0.44			
Sub Total					3	1.32	
TOTAL					18	8.25	

ANNEXURE-C

**Five Year Budget Details of Livelihood Activities for Assetless Poor (15%)
1St Year**

Sl No.	Name of District	Name of Project	Name of MWS	Activity	Target		Remarks
					Phy (Unit)	Fin (RS. In Lakhs)	
1	Sonitpur	Sonitpur-1/2021-22 (Jiyabharali Part-I)	Nabill	Bicycle Repairing	1	0.25	
2				Duckery	2	0.50	
3				Goatery	2	0.50	
4				Piggery	2	0.50	
5				Weaving Centre	1	0.25	
6				Dairy Farming	2	0.50	
				Sub Total	10	2.50	
7				Duckery	2	0.50	
8				Goatery	2	0.50	
9				Piggery	1	0.25	
10				Weaving Centre	1	0.25	
11				Dairy Farming	4	1.00	
12				Poultry	1	0.25	
				Sub Total	11	2.75	
13				Duckery	2	0.50	
14				Goatery	2	0.50	
15				Piggery	2	0.50	
16				Weaving Centre	1	0.25	
17				Dairy Farming	5	1.25	
18				Poultry	1	0.25	
				Sub Total	13	3.25	
19			Panigaon	Bicycle Repairing	1	0.25	
20				Duckery	2	0.50	
21				Goatery	2	0.50	
22	Piggery	1		0.25			
23	Weaving Centre	1		0.25			
24	Dairy Farming	3		0.75			
	Sub Total	10	2.50				
TOTAL					44	19.50	

ANNEXURE-C

Five Year Budget Details of Livelihood Activities for Assetless Poor (15%)

2Nd Year

Sl No.	Name of District	Name of Project	Name of MWS	Activity	Target		Remarks
					Phy (Unit)	Fin (RS. In Lakhs)	
1	Sonitpur	Sonitpur-1/2021-22 (Jiyabharali Part-I)	Nabill	Bicycle Repairing	1	0.25	
2				Duckery	4	1.00	
3				Goatery	4	1.00	
4				Piggery	8	2.00	
5				Weaving Centre	2	0.50	
6				Poultry	2	0.50	
7				Dairy Farming	4	1.00	
				Sub Total	25	6.25	
8			Gataimari	Duckery	4	1.00	
9				Goatery	6	1.50	
10				Piggery	2	0.50	
11				Weaving Centre	2	0.50	
12				Dairy Farming	8	2.00	
13				Poultry	4	1.00	
				Sub Total	26	6.50	
14			Ghahibaz	Duckery	4	1.00	
15				Goatery	6	1.50	
16				Piggery	4	1.00	
17				Weaving Centre	2	0.50	
18				Dairy Farming	16	4.00	
19				Poultry	6	1.50	
			Sub Total	38	9.50		
20			Panigaon	Bicycle Repairing	1	0.25	
21				Duckery	4	1.00	
22				Goatery	4	1.00	
23				Piggery	4	1.00	
24	Weaving Centre	2		0.50			
25	Poultry	2		0.50			
26	Dairy Farming	4		1.00			
	Sub Total	21	5.25				
TOTAL						49.75	

ANNEXURE-C

**Five Year Budget Details of Livelihood Activities for Assetless Poor (15%)
3Rd Year**

Sl No.	Name of District	Name of Project	Name of MWS	Activity	Target		Remarks
					Phy (Unit)	Fin (RS. In Lakhs)	
1	Sonitpur	Sonitpur-1/2021-22 (Jiyabharali Part-I)	Nabill	Bicycle Repairing	4	1.00	
2				Duckery	8	2.00	
3				Goatery	2	0.50	
4				Piggery	15	3.75	
5				Weaving Centre	7	1.75	
6				Dairy Farming	15	3.75	
7				Poultry	8	2.00	
				Sub Total	59	14.75	
8			Gataimari	Bicycle Repairing	4	1.00	
9				Duckery	11	2.75	
10				Goatery	6	1.50	
11				Piggery	15	3.75	
12				Weaving Centre	13	3.25	
13				Dairy Farming	23	5.75	
14				Poultry	8	2.00	
				Sub Total	80	20.00	
15			Ghahibaz	Bicycle Repairing	4	1.00	
16				Duckery	11	2.75	
17				Goatery	4	1.00	
18				Piggery	13	3.25	
19				Weaving Centre	11	2.75	
20				Dairy Farming	22	5.50	
21				Poultry	8	2.00	
				Sub Total	73	18.25	
22			Panigaon	Bicycle Repairing	4	1.00	
23				Duckery	6	1.50	
24				Goatery	2	0.50	
25				Piggery	13	3.25	
26	Weaving Centre	11		2.75			
27	Dairy Farming	8		2.00			
28	Poultry	8		2.00			
	Sub Total	52		13.00			
TOTAL					66.00		

ANNEXURE-C

**Five Year Budget Details of Livelihood Activities for Assetless Poor (15%)
4Th Year**

Sl No.	Name of District	Name of Project	Name of MWS	Activity	Target		Remarks
					Phy (Unit)	Fin (RS. In Lakhs)	
1	Sonitpur	Sonitpur-1/2021-22 (Jiyabharali Part-I)	Nabill	Duckery	13	3.25	
2				Goatery	8	2.00	
3				Piggery	8	2.00	
4				Weaving Centre	5	1.25	
5				Dairy Farming	8	2.00	
6				Poultry	6	1.50	
				Sub Total	48	12.00	
7			Gataimari	Duckery	13	3.25	
8				Goatery	8	2.00	
9				Piggery	8	2.00	
10				Weaving Centre	5	1.25	
11				Dairy Farming	13	3.25	
12				Poultry	6	1.50	
				Sub Total	53	13.25	
13			Ghahibaz	Duckery	13	3.25	
14				Goatery	8	2.00	
15				Piggery	8	2.00	
16				Weaving Centre	5	1.25	
17				Dairy Farming	11	2.75	
18				Poultry	6	1.50	
				Sub Total	51	12.75	
19			Panigaon	Duckery	13	3.25	
20				Goatery	8	2.00	
21				Piggery	8	2.00	
22	Weaving Centre	5		1.25			
23	Dairy Farming	8		2.00			
24	Poultry	4		1.00			
	Sub Total	46		11.50			
TOTAL						49.50	

ANNEXURE-C

**Five Year Budget Details of Livelihood Activities for Assetless Poor (15%)
5Th Year**

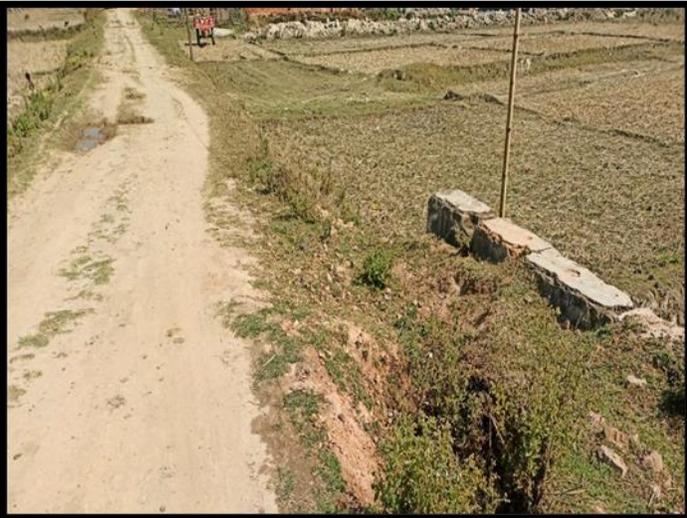
Sl No.	Name of District	Name of Project	Name of MWS	Activity	Target		Remarks		
					Phy (Unit)	Fin (RS. In Lakhs)			
1	Sonitpur	Sonitpur-1/2021-22 (Jiyabharali Part-I)	Nabill	Bicycle Repairing	1	0.25			
2				Duckery	2	0.50			
3				Goatery	2	0.50			
4				Piggery	4	1.00			
5				Weaving Centre	1	0.25			
6				Dairy Farming	2	0.50			
7				Poultry	1	0.25			
					Sub Total	13	3.25		
8			Gataimari			Bicycle Repairing	1	0.25	
9						Duckery	2	0.50	
10						Goatery	2	0.50	
11						Piggery	2	0.50	
12						Weaving Centre	1	0.25	
13						Dairy Farming	5	1.25	
14						Poultry	1	0.25	
					Sub Total	14	3.50		
15			Ghahibaz			Duckery	2	0.50	
16						Goatery	2	0.50	
17						Piggery	0	0.00	
18						Weaving Centre	1	0.25	
19						Dairy Farming	5	1.25	
					Sub Total	10	2.50		
20			Panigaon			Duckery	2	0.50	
21	Goatery	2				0.50			
22	Weaving Centre	1				0.25			
23	Dairy Farming	2				0.50			
			Sub Total	7	1.75				
TOTAL					44	11.00			

PHOTOGRAPHS
OF
BASELINE SURVEY
BEFORE IMPLEMENTATION
OF
WORKS

PHOTOGRAPHS FOR BASE LINE SURVEY BEFORE IMPLEMENTATION OF NRM WORKS



PHOTOGRAPHS FOR BASE LINE SURVEY BEFORE IMPLEMENTATION OF NRM WORKS



PHOTOGRAPHS FOR BASE LINE SURVEY BEFORE IMPLEMENTATION OF NRM WORKS



PHOTOGRAPHS FOR BASE LINE SURVEY BEFORE IMPLEMENTATION OF NRM WORKS



PHOTOGRAPHS FOR BASE LINE SURVEY BEFORE IMPLEMENTATION OF NRM WORKS



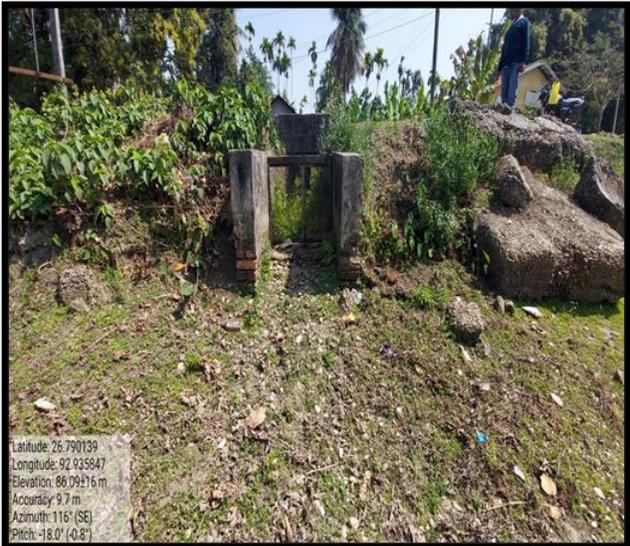
PHOTOGRAPHS FOR BASE LINE SURVEY BEFORE IMPLEMENTATION OF NRM WORKS



PHOTOGRAPHS FOR BASE LINE SURVEY BEFORE IMPLEMENTATION OF EPA WORKS



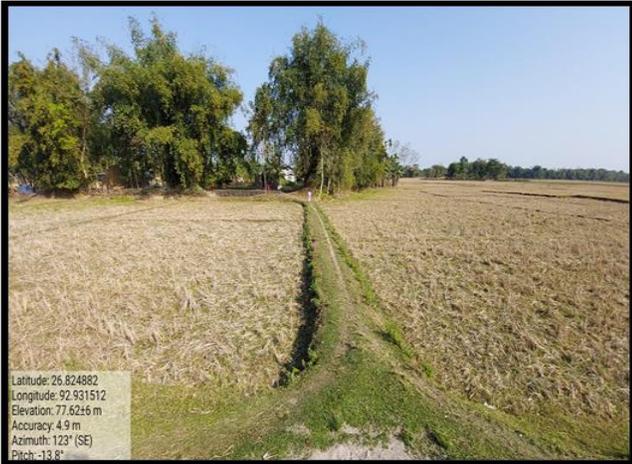
PHOTOGRAPHS FOR BASE LINE SURVEY BEFORE IMPLEMENTATION OF NRM WORKS



PHOTOGRAPHS FOR BASE LINE SURVEY BEFORE IMPLEMENTATION OF NRM WORKS



PHOTOGRAPHS FOR BASE LINE SURVEY BEFORE IMPLEMENTATION OF NRM WORKS



PHOTOGRAPHS
OF
MEETING WITH LOCAL
PEOPLE,
PRA EXERCISE, ETC.

PHOTOGRAPHS OF PRA EXECISE, MEETINGS, WC FORMATION, ETC WITH HONORABLE MLA AND LOCAL PEOPLE



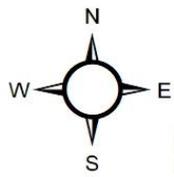
PHOTOGRAPHS OF PRA EXECISE, MEETINGS, WC FORMATION,ETC WITH HONORABLE MLA,
AND LOCAL PEOPLE



PHOTOGRAPHS OF PRA EXECISE, MEETINGS, WC FORMATION, ETC WITH HONORABLE MLA AND LOCAL PEOPLE



MAPS



Sonitpur-WDC-1/2021-22 Location Map

