

# Detail Project Report

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## **NEW GENERATION WATERSHED AND SPRINGSHED DEVELOPMENT PROJECTS,2021**

### **BARPETA-I /2021-22 (Mora Choulkhowa) WDC-PMKSY 2021-22**

Submitted to:

**State Level Nodal Agency, IWMP Assam**

RGB Road, Guwahati

Submitted By:

**Project Implementing Agency,  
BARPETA-I /2021-22 (Mora Choulkhowa) WDC-PMKSY  
Cum**

Divisional Soil Conservation Office, Barpeta Soil Conservation Division, Barpeta, Assam

# DETAILED PROJECT REPORT OF IWMP

## (2021– 2026)

Micro Watershed & Micro Watershed Code No	:	1. Radhakuchi MWS(3A2A4fi)
		2. Sitolijan MWS(3A2A4fii)
		3. Batikuriha MWS(3A2A4fiii)
		4. Guma MWS(3A2A4fiv)
IWMP project	:	BARPETA-I /2021-22 (Mora Choulkhowa) New Generation WDC-PMKSY
Block	:	Barpeta & Gumafulbari
District	:	Barpeta
Name of the PIA	:	Divisional Soil Conservation Office, Barpeta Division, Barpeta, Assam

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## Executive Summary

### **Briefly About the Area:**

BARPETA-I /2021-22 (Mora Choulkhowa) with an area of 6166 Ha. located at about 26°13'54.342"N to 26°13'54.75"N N latitude and 91°2'56.202"E to 91°8'1.141"E longitude covering 28 numbers of census villages under Barpeta & Gumafulbari Development Block of Barpeta District. The River Brahmaputra is located in the southern boundary of the watershed. Physiographically almost the entire watershed is occupied by an alluvial deposit with flat topography and there is a very gentle slope towards the Brahmaputra river, which makes the southern boundary of the Watershed.

Only one numbers of perennial streams flows through the watershed area namely Chaulkhowa Nadi. Apart from Chaulkhuwa Nadi there are numbers of wetland located within the watershed namely Chitali Beel, Boha Beel, Pagada Beel, Soha Beel etc. The watershed has soil cover of younger and older alluvial soil which has undergone diversified pedagogical changes. The soils are characterized by medium to high organic carbon and low to medium phosphorous and potash contents..

The climatic condition of the watershed is sub-tropical and humid. The average temperature ranges from 15<sup>o</sup> to 30<sup>o</sup>C. The winter season starts by November and continues till February. December/January is the coldest and July/August is the hottest period. The air is highly humid throughout the year and during rainy season, the relative humidity is about 90 percent..

As per 2011 census there are 9053 household in the watershed area. The total population of the watershed area is about 43684 of which 22631 are male and 21053 are female. The population density of the project area is about 708 per sq. km. There are 0.58% population are belongs to Scheduled caste and 0.04 % are Scheduled Tribes population.

Agriculture is the principal occupation and more than 85% of the total population depends on it. Irrigation is largely rain-fed, with mechanized shallow tube wells. Paddy is the major crop occupies more than 70% of gross cropped area followed by mustard, blackgram, potato and maize. Vegetables and fruits are also cultivated in

moderate scale. Piggery, poultry, goat rearing, fishery and sericulture are major agricultural allied activities in the watershed area.

## **INSTITUTIONAL ARRANGEMENTS:**

### **Watershed Cell cum Data Centre:**

Under the State Level Nodal Agency, Assam there is a Watershed Cell cum Data Centre in Barpeta District headed by Deputy Commissioner as Chairman and Divisional Soil Conservation Officer, Barpeta Soil Conservation Division as Project Manager with all line department as members.

### **Project Implementing Agency:**

Under the WCDC, Barpeta, Barpeta Soil Conservation Division is selected as Project Implementing Agency (PIA) for this watershed project. The Barpeta Soil Conservation Division is a multi disciplinary organization comprising of Agriculture/Civil Engineering, Forestry, Agronomy and Soil Science. The organization deals with various land and water management programme on river training engineering works, management of waste land, wetlands/ marshy land, degraded land etc.

### **Watershed Development Team:**

The Project Implementing Agency (PIA) has already setup a Watershed Development Team (WDT).

The details of WDT as follows-

<b>Sl. No.</b>	<b>Name of WDT Member</b>	<b>Designation &amp; Office Address</b>	<b>Phone No. &amp; email ID</b>	<b>Remarks</b>
1	Sri Gaurisankar Bezbaruah	Beat officer, Pathsala Soil Conservation Account Beat, Pathsala	7002339950	Team Leader
2	Naba Kr. Choudhury	Circle Inspector H & T, office of the assistant Director, Handloom & Textiles, Barpeta	9957383701 , nabakrchoudhury.nkchou@gmail.com	Member
3	Deepak Das	Junior Engineer, O/O Asstt. Director Sericulture, Barpeta	8761029503	Member
4	Sri Alok Kumar Das	Agriculture extension Officer, office of the Executive engineer, Barpeta- Baghbar Division, (irri) Barpeta	7002379482, Alokumardas956@gmail.com	Member



### **Watershed Committee:**

There are four numbers of Micro-Watershed in the area. Thus, four numbers of Watershed Committee has formed and details of Watershed Committee are enclosed in Table No 4.2.

### **Self Help Group (SHG) & User Group (UG):**

There are 87 User Group (under NRM activities & under Production System) has been formed and 913 numbers of Self Help Group (SHG) created (for Livelihood Activities & under Production System)).

### **Farmer Producers Organization (FPO):**

The Agriculture Department, has already initiated for creation of a Farmer Producer Organization in the Watershed area. As various farming activity has propose under production system component, there is a possibility to create more Farmer Producer Organization in the watershed area.

### **Salient Project activities:**

<b>Component</b>	<b>Activities proposed</b>
Entry Point Activities	<ul style="list-style-type: none"><li>• Development of community Pond</li><li>• Farmer Rest Shed</li><li>• Installation of Tara Hand Pump</li></ul>
Natural Resource Management	<ul style="list-style-type: none"><li>• Water Harvesting Structure<ul style="list-style-type: none"><li>(i) Pond</li><li>(ii) Development of Pond</li></ul></li><li>• Soil Moisture Conservation<ul style="list-style-type: none"><li>(i) Agril Bund</li><li>(iii) Brick Canal</li></ul></li><li>• Vegetative Cover<ul style="list-style-type: none"><li>(i) Horticulture Plantation</li></ul></li></ul>
Production System	<ul style="list-style-type: none"><li>• Fishery</li><li>• Apple Bear Cultivation</li><li>• Assam Lemon Cultivation</li><li>• Papaya Cultivation (Red Lady)</li><li>• Strawberry Cultivation</li><li>• Banana Cultivation</li><li>• Vermi Composting</li></ul>
Livelihood Activities	<ul style="list-style-type: none"><li>• Goatry</li><li>• Poultry</li><li>• Duckery</li><li>• Broiler Farm</li><li>• Supari Making Unit</li></ul>

### Physical target and financial outlays

Sl No	Component	Unit	1st Year		2nd Year		3rd Year		4th Year		5th Year		Total	
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
<b>1</b>	<b>Entry Point Activities</b>													
(i)	Farmer Resting Shed	No	1	3.30	0	0	0	0	0	0	0	0	1	3.30
(ii)	Farmer Resting Shed	No	1	3.30	0	0	0	0	0	0	0	0	1	3.30
(iii)	Dev. of Community pond at Fruit bearing Planting	No	1	6.43	0	0	0	0	0	0	0	0	1	6.43
(iv)	Insulation of Tara Pump	No	1	0.50	0	0	0	0	0	0	0	0	1	0.50
(v)	Insulation of Tara Pump	No	1	0.50	0	0	0	0	0	0	0	0	1	0.50
(vi)	Insulation of Tara Pump	No	1	0.50	0	0	0	0	0	0	0	0	1	0.50
(vii)	Insulation of Tara Pump	No	1	0.50	0	0	0	0	0	0	0	0	1	0.50
(viii)	Insulation of Tara Pump	No	1	0.50	0	0	0	0	0	0	0	0	1	0.50
(ix)	Dev. of Community pond at Fruit bearing Planting	No	1	6.10	0	0	0	0	0	0	0	0	1	6.10
	<b>Sub Total of Entry Point Activities</b>		<b>9</b>	<b>21.63</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9</b>	<b>21.63</b>
2	Administrative	-	-	21.6348	-	21.6348	-	21.6348	-	21.6348		21.6348		108.174
3	Monitoring & Evaluation					5.4087		5.4087		5.4087		5.4087		21.6348
4	Institution & Capacity building			16.2261		5.4087		5.4087		2.70435		2.70435		32.4522
5	DPR	No	1	10.8174										10.8174
<b>6</b>	<b>Natural Resource Management</b>													
<b>A</b>	<b>Soil and Moisture Conservation structures</b>													
a)	Agril Bund	RM	4100	23.247	5450	30.9015	3850	21.8295	0	0	700	3.969	14100	79.95
b)	Agril Bund (hume pipe)	RM	900	5.103	1050	5.9535	0	0	0	0	0	0	1950	11.06
c)	Agril Bund (with Slab Culvert)	RM	900	5.103	0	0	0	0	0	0	0	0	900	5.10
d)	Brick Canal (Slab Culvert)	RM	0	0	240	6.144	240	6.144	240	6.144	0	0	720	18.43
e)	Brick Canal	RM	3830	98.048	4530	115.968	2530	64.768	490	12.544	0	0	0	291.33
<b>Subt</b>				<b>131.50</b>		<b>158.96</b>		<b>92.741</b>		<b>18.688</b>		<b>3.969</b>		<b>405.87</b>

Sl No	Component	Unit	1st Year		2nd Year		3rd Year		4th Year		5th Year		Total	
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
aotl				1		7		5						
<b>Sub Total of A</b>				<b>132.80</b>		<b>161.76</b>		<b>94.61</b>		<b>18.69</b>		<b>3.97</b>		<b>411.82</b>
<b>B</b>	<b>Water Harvesting Structures</b>													
(I)	Farm Pond	Sqm	1045 0	24.35	2200	5.126	2200	5.126	1700	3.961	1700	3.961	18250.00	42.52
(ii)	Development of Farm Pond	Sqm	4300	10.019	2150	5.0095	0	0	3100	7.223	5600	13.048	15150.00	35.30
<b>Sub Total of B</b>				<b>34.37</b>		<b>10.14</b>		<b>5.13</b>		<b>11.18</b>		<b>17.01</b>		<b>77.82</b>
<b>C</b>	<b>Vegetative Covers</b>													
(i)	Horticulture Plantation		2.448	5.913	0.489	1.180	1.256	3.034	1.068	2.580	2.512	6.065	7.77	18.77
<b>Sub Total of C</b>				<b>5.91</b>		<b>1.18</b>		<b>3.03</b>		<b>2.58</b>		<b>6.07</b>		<b>18.77</b>
<b>Sub Total of NRM</b>				<b>173.08</b>		<b>173.08</b>		<b>102.77</b>		<b>32.45</b>		<b>27.04</b>		<b>508.4178</b>
7	Natural Resource Management & Governance			5.4087		5.4087		5.4087		5.4087		0	0	21.6348
<b>8</b>	<b>Production System</b>													
(i)	Apple Bear Cultivation	No	3.00	1.32	10.00	4.40	19.00	8.36	14.00	6.16	5.00	2.20	51.00	22.44
(ii)	Assam Lemon Cultivation	No	3.00	1.32	12.00	5.28	26.00	11.44	14.00	6.16	3.00	1.32	58.00	25.52
(iii)	Bananna Cultivation	No	3.00	1.32	10.00	4.40	21.00	9.24	20.00	8.80	3.00	1.32	57.00	25.08
(iv)	Fishery	No	0.00	0.00	14.00	6.16	37.00	16.28	30.00	13.20	3.00	1.32	84.00	36.96
(v)	Papaya Cultivation (Red Lady)	No	15.00	6.60	20.00	8.80	13.00	5.72	8.00	3.52	3.00	1.32	59.00	25.96
(vi)	Strawberry Cultivation	No	1.00	0.44	8.00	3.52	31.00	13.64	18.00	7.92	1.00	0.44	59.00	25.96
(vii)	Vermi Compost		0.00	0.00	0.00	0.00	1.00	0.34	0.00	0.00	0.00	0.00	1.00	0.34
<b>Sub Total of Production System</b>				<b>11.00</b>		<b>32.56</b>		<b>65.02</b>		<b>45.76</b>		<b>7.92</b>		<b>162.26</b>
<b>9</b>	<b>Livelihood Activities for the asset less persons Micro Enterprise &amp; Business Development</b>													
	Goatry	No	6.00	1.50	37.00	9.25	72.00	18.00	47.00	11.75	0.00	0.00	162.00	40.50
	Poultry	No	8.00	2.00	18.00	4.50	73.00	18.25	38.00	9.50	6.00	1.50	143.00	35.75
	Duckery	No	10.00	2.50	29.00	7.25	34.00	8.50	80.00	20.00	19.00	4.75	172.00	43.00
	Supari Making Unit	No	0.00	0.00	0.00	0.00	1.00	0.26	0.00	0.00	0.00	0.00	1.00	0.26
	Broiler Farm	No	19.00	4.75	24.00	6.00	80.00	20.00	30.00	7.50	18.00	4.50	171.00	42.75

SI No	Component	Unit	1st Year		2nd Year		3rd Year		4th Year		5th Year		Total	
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
	<b>Sub Total of Livelihood</b>	<b>No</b>	<b>43.00</b>	<b>10.75</b>	<b>108.00</b>	<b>27.00</b>	<b>260.00</b>	<b>65.01</b>	<b>195.00</b>	<b>48.75</b>	<b>43.00</b>	<b>10.75</b>	<b>649.00</b>	<b>162.26</b>
10	Consolidation	-	-	0	0	0	0	0	0	0	0	32.4522	0	32.45
	GRAND Total			270.55		270.50		270.66		162.12		107.91		1081.74

## Treatment area and details

SL No	Particulars	Area (in Ha)
1	Rain-fed area	4121.00
2	Cultivable Wasteland	796.00
<b>Total</b>		<b>4917.00</b>

## Fact sheet about bench mark indicators and action plan a glance.

Benchmarking is a process of setting realistic standard of watershed outcomes by assigning specific values to the indicators identified for the purpose. Indicator & benchmark set for the watershed as follows-

SL No	Indicators	Measuring Details	Frequency /Stage
<b>A</b>	<b>Soil Health</b>		
(i)	Soil Organic Carbon increase	NMR Spectroscopy	5 Year
(ii)	Erosion reduction	Gully formation/ Sediment loss (gauges)	3 years
<b>B</b>	<b>Hydrology</b>		
(i)	Rainfall (intensity, no of rainy days)	Rain gauge	Daily
(ii)	Stream flow Cum/Sec Monsoon flow on selected streams in watershed) reduce	V Notch/ Staff Gauge	Daily
(iii)	Ground Water level (in meter) increase	Tape	Monthly
(iv)	Spread Area increase	Field Survey/ Remote Sensing	Six Monthly
(v)	Rejuvenation	Field Survey/ Remote Sensing	Monthly
(vi)	New Water bodies (in Number) Increase	Field Survey/ Remote Sensing	Monthly

<b>SL No</b>	<b>Indicators</b>	<b>Measuring Details</b>	<b>Frequency /Stage</b>
(vii)	Drinking Water availability Increase	Survey/ FGD	3 Years
(viii)	Soil Moisture increase	Probes	Quarterly
<b>C</b>	<b>Forestry</b>		
(i)	Tree Cover Increase	Inventory	3 Years
(ii)	Nominalised Differential Vegetation Index (NDVI) increase	Remote Sensing	3 Years
(iii)	Survival of numbers planted	Survey	Yearly
(iv)	Percentage of farm Family cultivating Agro forestry increase	Survey	Yearly
<b>D</b>	<b>Agriculture and Horticulture</b>		
(i)	Fallow & Wasteland reduction	Remote Sensing/ Survey	2 Years
(ii)	Diversification in agriculture & horticulture	Survey	2 Years
(iii)	Area covered under improved variety of total cultivated land	Survey	2 Years
(iv)	Area covered micro irrigation system increase	Survey	1 year
(v)	No of Farmer Producer Institutions increase	Survey	Yearly
(vi)	No of Farmer undergo training	Survey	Yearly
<b>E</b>	<b>Animal Husbandry, Dairy and Fishery</b>		
(i)	Increase in area under Grassland on CPR	Revenue Record/ Survey	3 Years
(ii)	Increase in area under cultivated fodder	Revenue record/Survey	3 Years

<b>SL No</b>	<b>Indicators</b>	<b>Measuring Details</b>	<b>Frequency /Stage</b>
(iii)	Increase in area under cultivated fodder	Revenue record/Survey	3 Years
(iv)	Shift from open grazing to stall feeding	Survey	2 Years
(v)	No of livestock owners adopting Artificial Insemination (AI)	Survey	2 Years
(vi)	Increase in aquaculture production	Survey	2 Years
<b>F</b>	<b>Economic, Financial, Process, Asset, Institutional, Risk &amp; Convergence</b>		
(i)	Total Income	Survey	3 Years
(ii)	No. of families recorded positive change in income	Survey	3 Years
(iii)	Distress migration	Survey	3 Years
(iv)	Watershed Development Fund	Survey	5 Years
(v)	Common Property Resources Maintenance Mechanism	Survey	5 Years
(vi)	Status of Area Treatment	Survey	3 Years
(vii)	Status of Drainage line treatment	Survey	3 Years
(viii)	No. of Social audit	Survey	5 Years
(ix)	No of SHG/CBO/MI formed	Survey	3 Years
(x)	No of common watershed asset created	Survey	3 Years

### Photographic View







# CHAPTER 1

## Introduction and Background

### INTRODUCTION:

- Name of the State : Assam
- Name of the District : Barpeta
- Names of the Blocks : Barpeta & Gumafulbari
- Name of the project : BARPETA-I /2021-22 (Mora Choulkhowa)  
New Generation WDC-PMKSY
- Financial Year of sanction : 2021-22
- Project duration : From 2021 to 2026

### 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	BARPETA-I /2021-22 (Mora Choulkhowa) New Generation WDC-PMKSY
3	Name of the District	BARPETA
4	Names of the Blocks	Barpeta & Gumafulbari
5	Names of Gram Panchayats	Radhakuchi, Bhella, Barbila & Pajarbhanga
6	<b>Names Villages covered</b>	<b>Census Code</b>
	Panichilla	283098
	Kharua Para (Nagaon Kharuapara)	283094
	Tatikuchi	283093
	Radhakuchi	283095
	Radhakuchi Habi	283096
	Jabrikuchi	283092
	Banbaria	283091
	Bhella	283088
	Khankarpara	283090
	Bara	283111
	Barbila	283110
	Batikuriha	283113
	Kaljahi	283112
	Sila	283114
	Omura (Gumura)	283115
	Damal Jar	283124
	Suha Bil Daloni (Sohabil Doloni)	283123
	Dakreswar	283122
	Bar Suha (Barsoha)	283116
	Belortari	283141

	Khapan Baria Bhitha	283121
	Bar Ghol	283120
	Kachari Para	283119
	Pajar Bhanga	283118
	Bar Baradi	283117
	Balapara	283004
	Tarabari	283002
	Guma (Goma)	283003
7	Four major reasons for selection of watershed	<p>1. There is no means of Water harvesting and conservation means to have a good crop round the year.</p> <p>2. A large portion of the population is under poverty.</p> <p>3. Acute shortage of drinking and Irrigation water.</p> <p>4. There is no other sector available for livelihood for the landless or the poorest</p>
8	Name, Address , Phone No and Reg.No.. of the PIA(s)	Divisional Officer, Barpeta Soil Conservation Division, Barpeta
9	Date of approval of Watershed Development Plan by the DPC	
10	Area of the Project (ha.)	6166 Ha
11	Area proposed to be treated (ha.)	4917Ha
12	Financial Year of sanction	2021-22
13	Project duration	From 2021-22 to2026-27
14	Project Cost (Rs. in Lakhs)	1081.74lakhs
15	Date of Sanction by State authority	4/1/2022
16	Date of Release of 1 <sup>st</sup> Installment of Central Assistance (To be filled by DoLR)	23-02-2022
17	Any other, please specify	

**Project Background:**

Watershed Development Component - Pradhan Mantri Krishi Sinchai Yojna (WDC-PMKSY 2.0) is a modified programme of previous Drought Prone Areas Programme (DPAP), Desert Development Programme (DDP), Integrated Wastelands Development Programme (IWDP) and Integrated Watershed Management Programme (IWMP) of the Development of Land Resources, Government of India. The scheme is launched during 2021-22. The main objectives of the Watershed Development Component- Pradhan Mantri Krishi Sinchai Yojna (WDC-PMKSY 2.0) are to restore the ecological balance by harnessing, conserving and developing degraded natural resources such as soil, vegetative cover and water. The outcomes are prevention of soil erosion, regeneration of natural vegetation, rain water harvesting and recharging of the ground water table. This enables multi-cropping and the introduction of diverse agro-based activities, which help to provide sustainable livelihoods to the people residing in the watershed area.

Every land area, regardless of its location, is part of a watershed. Some are hilly and others are relatively flat. Every watershed has a physical landscape a complex terrain of landforms, water resources, vegetation, animals and their habitats, human beings and the structures they have built. At the watershed scale, conflicts over water and land resources are inherently multi-attribute, multi-stakeholder, and multi-discipline decision problems. Watershed systems from those with many small tributaries to large-scale lake systems and river basins provide direct inputs to economic processes, serve as waste sinks for economic output, and provide ecosystem services that make life possible.

In recent years, the concepts of integrated watershed management have gained increasing attention as strategies for sustainable resource use within a complex multi-institutional regulatory context. Watershed is a basic hydrologic unit, and hydrologic and ecologic processes govern the quality of soil and water resources within the watershed. Soil degradative processes are accentuated by anthropogenic factors. It is appropriate; therefore, that issues related to sustainable management of natural resources (e.g., food security and environment quality) are addressed within the context of watershed management.

Watershed Development implies rational utilization of natural resources for optimal and sustained production with minimum hazard to environment. It requires collection and analysis of information from multiple services to ensure sustainable economic and social progress of a watershed.

**Problems:**

The project area of Barpeta-I (Mora Chaulkhowa) WDC-PMKSY falls under Barpeta & Gomaphulbari Dev. Block of Barpeta District. About 90% of the population of this area is fully dependent on Agriculture. The area has been facing many problems right from very low ground water table to perennial flash flood. Due to erratic climatic character, the project area has to face occasional drought like situation also. Adverse climatic conditions, poor mobilization of the resources and inadequate agricultural infrastructure are some of the factors responsible for the underdeveloped state of the area. Hence, it is anticipated that the project area of over 5000 ha would undoubtedly boost the living standards of the people of the area through the improvement in agriculture and allied activities.

The vital problem of the watershed is degradation of natural water bodies like wetland & rivers. Due to annual, the natural drainages become very shallow and thereby water holding capacity has been reduced and because of biotic interference and environmental degradation, congestion of the drainage system & wetlands has become very sensitive. Most of the wetlands in the watershed have become very shallow and the whole area is covered with thick weeds and infested with wild aquatic fauna and thereby water holding capacity has been reduced up to a great extent. The degradation of the natural wetland & drainages has also created the problem of water logging in the catchment areas.

Besides above, the uneven rainfall, damage caused by pest and diseases in agricultural production, lack of knowledge and technologies and facilities for cash crops, non availability of safe drinking water, lack of acquired skills for artisans and weavers for producing better quality products insufficiency of other infrastructural developments are also important problems in the project area.

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

Degradation of soil and water resources is considered not only as an extreme constraint to sustainable agricultural development but also a peril to the society. Poor ecosystem management results in the weaken functioning of watershed; hence there is a need to protect and preserve the quality of the ecosystem.

Due to rapid growth of population there is an excessive demand for more land both for agriculture and non-agriculture uses. This has created a vast extend of wastelands and some are on the margin of becoming wastelands. There is need to reverse the trend by giving proper treatment to wastelands. Lands degraded by natural forces need improvement by appropriate interventions.

Watershed management is the implementation of management systems that guarantee the preservation, conservation and sustainable use of all land and water resources. Watershed management also integrates various aspects of forestry, agriculture, hydrology, ecology, pedology etc. for choosing acceptable management alternative within the specific social and economic context. As mention above, the major problems of the Watershed are degradation of Natural Resources, soil erosion, siltation etc. and therefore there is a tremendous scope for executing watershed development activities in the watershed area.

**Table No. 1.2 Need and Scope for Watershed Development**

1	2	3	6	7												8											
Sl. No.	District	Name of the Project	Type of project(Hilly / Desert/ Others)	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XII	Total										
1	Barpeta	Barpeta-I (Mora Choulkhowa Pt-I)	Others	10	3	5	5	2	0	15	7.5	10	10	10	10	0	87.5										

\*As per PPR

S. No.	Criteria	Maximum score	Ranges & 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	5	Over exploited (5)	Critical (3)		Sub critical (2)		Safe (0)
vi	Moisture index/ DPAP/ DDP Block	15	-66.7 & below (15)	-33.3 to -66.6 (10)		0 to -33.2 (0)		
			DDP Block	DPAP Block		Non DPAP/ DDP Block		
vii	Area under rain-fed agriculture	15	More than 90 % (15)	80 to 90 % (10)		70 to 80% (5)		Above 70 % (Reject)
viii	Drinking water	10	No source (10)	Problematic village (7.5)		Partially covered (5)		Fully covered

S. No.	Criteria	Maximum score	Ranges & scores			
						(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	15	Lands with low production & where productivity can be significantly enhanced with reasonable efforts (15)	Lands with moderate production & where productivity can be enhanced with reasonable efforts (10)	Lands with high production & where productivity can be marginally enhanced with reasonable efforts (5)	
xi	Contiguity to another watershed that has already been developed/ treated	10	Contiguous to previously treated watershed & contiguity within the microwatersheds in the project (10)	Contiguity within the microwatersheds in the project but non contiguous to previously treated watershed (5)	Neither contiguous to previously treated watershed nor contiguity within the microwatersheds 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 microwatersheds in cluster (10)	2 to 4 microwatersheds in cluster (5)	
	Cluster approach in the hills (more than one contiguous micro-watersheds in the project)		Above 5 micro-watersheds in cluster (15)	3 to 5 microwatersheds in cluster (10)	2 to 3 microwatersheds in cluster (5)	



**Table no.1.3: Watershed information**

Sl no	Name of Project	Name of MWS	Name of Village	Geographical Area(Ha)	Treatable Area(Ha)	Approval Year
1	BARPETA-I /2021-22 (Mora Choulkhowa) New Generation WDC-PMKSY	Radhakuchi MWS(3A2A4fi)	Panichilla	96	87	2021-22
2			Kharua Para (Nagaon Kharuapara)	274	236	
3			Tatikuchi	118	98	
4			Radhakuchi	279	210	
5			Radhakuchi Habi	282	242	
6		Sitolijan MWS(3A2A4fii)	Jabrikuchi	88	85	
7			Banbaria	130	106	
8			Bhella	268	196	
9			Khankarpara	347	303	
10			Bara	94	67	
11		Batikuriha MWS(3A2A4fiii)	Barbila	149	116	
12			Batikuriha	209	125	
13			Kaljahi	159	116	
14			Sila	164	114	
15			Omura (Gumura)	68	40	
16			Damal Jar	264	188	
17			Suha Bil Daloni (Sohabil Doloni)	158	105	
18			Dakreswar	152	114	
19			Bar Suha (Barsoha)	185	143	
21		Guma MWS(3A2A4fiv)	Belortari	152	89	
22			Khapan Baria Bhitha	319	285	
23			Bar Ghol	360	320	
24			Kachari Para	378	323	
25			Pajar Bhanga	303	229	
26			Bar Baradi	141	121	
27			Balapara	483	393	
28			Tarabari	340	284	
29			Guma (Goma)	206	182	
		<b>TOTAL</b>			<b>6166</b>	

Source: Field Survey & Census Data

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

<b>Sl. no</b>	<b>Name of the programme/scheme</b>	<b>Sponsoring agency</b>	<b>Objectives of the programme/scheme</b>	<b>Year of commencement</b>	<b>Villages covered</b>	<b>Estimated number of beneficiaries</b>
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	-	-
2	Jal Jeevan Mission	Ministry of Drinking Water & Sanitation, Govt. of India	The goal of JJM is to provide functional household tap connection to every household with service level at the rate of 55 litres per capita per day	2022	-	-

Source: Field Survey Data

**Table No. 1.5: Status of previous watershed programme**

S. No	Project name	Year started	Name of villages	No. Of micro watershed	Watershed codes	Area under treatment	Funding source	Nodal agency	PIA	Total cost	Expenditure incurred up to start of IWMP	% financial completion	% physical completion
No Previous Watershed Programme													

## CHAPTER 2

### General Description of Project Area

#### **Location of Watershed:**

BARPETA-I /2021-22 (Mora Choulkhowa) with an area of 6166 Ha. located at about 26°13'54.342"N to 26°13'54.75"N N latitude and 91°2'56.202"E to 91°8'1.141"E longitude covering 28 numbers of census villages under Barpeta & Gumafulbari Development Block of Barpeta District. The River Brahmaputra is located in the southern boundary of the watershed.

#### **Physiography:**

Physiographically almost the entire watershed is occupied by an alluvial deposit with flat topography and there is a very gentle slope towards the Brahmaputra river, which makes the southern boundary of the Watershed.

#### **Drainage & Water bodies:**

Only one numbers of perennial streams flows through the watershed area namely Chaulkhowa Nadi. Apart from Chaulkhuwa Nadi there are numbers of wetland located within the watershed namely Chitali Beel, Boha Beel, Pagada Beel, Soha Beel etc.

#### **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 characterised 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). Most of the rainfall in the state is received under the influence of the south-west monsoon between June and October.

#### **Soil:**

The watershed has soil cover of younger and older alluvial soil which has undergone diversified pedagogical changes. The soils are characterized by medium to high organic carbon and low to medium phosphorous and potash contents..

**Ground Water:**

The depth of ground water level in water table zone varies from 0.41 to 3.07 m bgl in the pre monsoon period and 0.56 to 3.41 m bgl during post monsoon period. As per the records of Ground Water Information Booklet, Central Ground Water Board, 2008 –the area is best suited for creation of ground water abstraction structures for discharge ranging from 100-300 M<sup>3</sup>/hr.

**Demography:**

As per 2011 census there are 9053 household in the watershed area. The total population of the watershed area is about 43684 of which 22631 are male and 21053 are female. The population density of the project area is about 708 per sq. km. There are 0.58% population are belongs to Scheduled caste and 0.04 % are Scheduled Tribes population.

**Economy:**

Agriculture is the principal occupation and more than 85% of the total population depends on it. Irrigation is largely rain-fed, with mechanized shallow tube wells. Paddy is the major crop occupies more than 70% of gross cropped area followed by mustard, blackgram, potato and maize. Vegetables and fruits are also cultivated in moderate scale. Piggery, poultry, goat rearing, fishery and sericulture are major agricultural allied activities in the watershed area.

**Land Use/ Land Cover:**

The following landuse categories are identified through visual interpretation of remote Sensing Map and supported by field verification. The identified main landuse categories are –Agricultural land constitute about 4121 ha about 83% of total geographical area of the watershed and Wasteland cultivable about 796 Ha including marshy land.

**Table 2.1: Location**

Longitude	91°2'56.202"E to 91°8'1.141"E	
Latitude	26°13'54.342"N to 26°13'54.75"N	
State	Assam	
District	Barpeta	
Subdivision	Barpeta	
Block	Barpeta & Gumafulbari	
Panchayat	Radhakuchi, Bhella, Barbila & Pajarbhanga	
Villages	<b>Village Name</b>	<b>Census</b>
	Panichilla	283098
	Kharua Para (Nagaon Kharuapara)	283094
	Tatikuchi	283093
	Radhakuchi	283095
	Radhakuchi Habi	283096
	Jabrikuchi	283092
	Banbaria	283091
	Bhella	283088
	Khankarpara	283090
	Bara	283111
	Barbila	283110
	Batikuriha	283113
	Kaljahi	283112
	Sila	283114
	Omura (Gumura)	283115
	Damal Jar	283124
	Suha Bil Daloni (Sohabil Doloni)	283123
	Dakreswar	283122
	Bar Suha (Barsoha)	283116
	Belortari	283141
	Khapan Baria Bhitha	283121
	Bar Ghol	283120
	Kachari Para	283119
	Pajar Bhanga	283118
	Bar Baradi	283117
Balapara	283004	
Tarabari	283002	
Guma (Goma)	283003	
Approach Road	Barpeta Panchchila Road	

Source: Census Data

**Table no: 2.2 Land Details**

1	2	3	4	5	6	7	8	9		10						
								Geographical Area of the village	Forest Area		Land under agricultural use	Rain fed area	Permanent pastures	Wasteland		Treatable area
														Cultivable	Non-Cultivable	
Sl. No.	Name of watersheds	Names of villages														
1	BARPETA- I/2021-22 (Mora Choulkhowa Pt-I) New Generation WDC-PMKSY	Panichilla	96	0	62	62	0	25	0	87						
2		Kharua Para (Nagaon Kharuapara	274	0	217	217	0	19	0	236						
3		Tatikuchi	118	0	94	94	0	4	0	98						
4		Radhakuchi	279	0	187	187	0	23	0	210						
5		Radhakuchi Habi	282	0	148	148	0	94	0	242						
6		Jabrikuchi	88	0	82	82	0	3	0	85						
7		Banbaria	130	0	97	97	0	9	0	106						
8		Bhella	268	0	164	164	0	32	0	196						
9		Khankarpara	347	0	201	201	0	102	0	303						
10		Bara	94	0	63	63	0	4	0	67						
11		Barbila	149	0	115	115	0	1	0	116						
12		Batikuriha	209	0	112	112	0	13	0	125						
13		Kaljahi	159	0	107	107	0	9	0	116						
14		Sila	164	0	96	96	0	18	0	114						
15		Omura (Gumura)	68	0	40	40	0	0	0	40						
16		Damal Jar	264	0	166	166	0	22	0	188						
17		Suha Bil Daloni(Sohabil Doloni	158	0	105	105	0	0	0	105						
18		Dakreswar	152	0	114	114	0	0	0	114						
19		Bar Suha (Barsoha)	185	0	143	143	0	0	0	143						

1	2	3	4	5	6	7	8	9		10
Sl. No.	Name of watersheds	Names of villages	Geographical Area of the village	Forest Area	Land under agricultural use	Rain fed area	Permanent pastures	Wasteland		Treatable area
								Cultivable	Non-Cultivable	
20		Belortari	152	0	31	31	0	58	0	89
21		Khapan Baria Bhitha	319	0	265	265	0	20	0	285
22		Bar Ghol	360	0	288	288	0	32	0	320
23		Kachari Para	378	0	312	312	0	11	0	323
24		Pajar Bhanga	303	0	165	165	0	64	0	229
25		Bar Baradi	141	0	119	119	0	2	0	121
26		Balapara	483	0	242	242	0	151	0	393
27		Tarabari	340	0	225	225	0	59	0	284
28		Guma (Goma)	206	0	161	161	0	21	0	182
<b>Total</b>			<b>6166</b>	<b>0</b>	<b>4121</b>	<b>4121</b>	<b>0</b>	<b>796</b>	<b>0</b>	<b>4917</b>

Source: Field Survey & census Data



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

Sl. No.	Name of Village	No. of beneficiaries covered				
		MF	SF	LF	Landless	Total
1	Panichilla	101	24	1	17	143
2	Kharua Para (Nagaon Kharuapara)	454	92	3	24	573
3	Tatikuchi	223	32	4	30	289
4	Radhakuchi	612	96	2	61	771
5	Radhakuchi Habi	375	62	2	46	485
6	Jabrikuchi	31	7	1	3	42
7	Banbaria	312	55	3	15	385
8	Bhella	767	120	4	92	983
9	Khankarpara	419	72	1	40	532
10	Bara	140	22	3	10	175
11	Barbila	130	25	1	25	181
12	Batikuriha	341	56	4	12	413
13	Kaljahi	67	7	2	6	82
14	Sila	445	70	1	34	550
15	Omura (Gumura)	250	41	2	3	296
16	Damal Jar	448	75	5	48	576
17	Suha Bil Daloni (Sohabil Doloni)	343	52	3	34	432
18	Dakreswar	175	32	1	17	225
19	Bar Suha (Barsoha)	312	54	2	43	411
20	Belortari	309	55	1	29	394
21	Khapan Baria Bhitha	32	7	2	9	50
22	Bar Ghol	78	15	2	18	113
23	Kachari Para	31	7	2	7	47
24	Pajar Bhanga	231	41	1	18	291
25	Bar Baradi	171	31	1	20	223
26	Balapara	130	22	2	19	173
27	Tarabari	135	24	2	7	168
28	Guma (Goma)	99	18	2	14	133
	<b>TOTAL</b>	<b>7161</b>	<b>1214</b>	<b>60</b>	<b>701</b>	<b>9136</b>

Source: Field Survey Data

**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	BARPETA-I /2021-22 (Mora Choulkhowa Pt-I) New Generation WDC-PMKSY	Lower Brahmaputra Valley Zone	96	Panichilla	Alluvial	96	PADDY	62
2			274	Kharua Para (Nagaon Kharuapara)	Alluvial	274	PADDY	217
3			118	Tatikuchi	Alluvial	118	PADDY	94
4			279	Radhakuchi	Alluvial	279	PADDY	187
5			282	Radhakuchi Habi	Alluvial	282	PADDY	148
6			88	Jabrikuchi	Alluvial	88	PADDY	82
7			130	Banbaria	Alluvial	130	PADDY	97
8			268	Bhella	Alluvial	268	PADDY	164
9			347	Khankarpara	Alluvial	347	PADDY	201
10			94	Bara	Alluvial	94	PADDY	63
11			149	Barbila	Alluvial	149	PADDY	115
12			209	Batikuriha	Alluvial	209	PADDY	112
13			159	Kaljahi	Alluvial	159	PADDY	107
14			164	Sila	Alluvial	164	PADDY	96
15			68	Omura (Gumura)	Alluvial	68	PADDY	40
16			264	Damal Jar	Alluvial	264	PADDY	166
17			158	Suha Bil Daloni (Sohabil Doloni)	Alluvial	158	PADDY	105
18			152	Dakreswar	Sandy Loam	152	PADDY	114
19			185	Bar Suha (Barsoha)	Sandy Loam	185	PADDY	143
20			152	Belortari	Sandy Loam	152	PADDY	31

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
21			319	Khapan Baria Bhitha	Sandy Loam	319	PADDY	265
22			360	Bar Ghol	Sandy Loam	360	PADDY	288
23			378	Kachari Para	Sandy Loam	378	PADDY	312
24			303	Pajar Bhanga	Sandy Loam	303	PADDY	165
25			141	Bar Baradi	Sandy Loam	141	PADDY	119
26			483	Balapara	Sandy Loam	483	PADDY	242
27			340	Tarabari	Sandy Loam	340	PADDY	225
28			206	Guma (Goma)	Sandy Loam	206	PADDY	161
<b>Total</b>			<b>6166</b>			<b>6166</b>		<b>4121</b>

Source: Field Survey Data

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

1 Sl. No.	2 Particulars	3 Villages	4 Periodicity		5 Not affected
			Annual	Any other (Please specify)	
1	Flood	22 Nos	Yes	-	6 Nos
		<b>Name(s) of villages</b>	Yes	---	<b>Name(s) of villages</b>
		Panichilla			Suha Bil Daloni
		Tatikuchi			Bar Suha (Barsoha)
		Radhakuchi			Khapan Baria Bhitha
		Radhakuchi Habi			Bar Ghol
		Banbaria			Tarabari
		Bhella			Kharua Para
		Khankarpara			-
		Bara			-
		Barbila			-
		Batikuriha			-
		Kaljahi			-
		Omura (Gumura)			-
		Damal Jar			-
		Dakreswar			-
		Belortari			-
		Kachari Para			-
		Pajar Bhanga			-
		Bar Baradi			-
		Balapara			-
		Guma (Goma)			-
Jabrikuchi			-		
Sila			-		
2	Drought	No. of villages	6	-	-
		Name(s) of villages	-	-	-
		Suha Bil Daloni	Occasionally		NA
		Bar Suha (Barsoha)			
		Khapan Baria Bhitha			
		Bar Ghol			
		Tarabari			
		Kharua Para			

Source: Field Survey Data

**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				
a	Sheet	4422	1107	0.5 MT/Ha
b	Rill	308		
c	Gully	185		
Sub-Total		4915		
Wind erosion		0		
<b>Total</b>		<b>4915</b>		

Source: Field Survey data

**Table No. 2.7 Details of the Soil pH**

Name of the Villages	Sample no	Soil Ph	Soil Type
Panichilla	M-1/S-1	Neutral	Alluvial
Kharua Para (Nagaon Kharuapara)	M-1/S-2	Neutral	Alluvial
Tatikuchi	M-1/S-3	Neutral	Alluvial
Radhakuchi	M-1/S-4	Neutral	Alluvial
Radhakuchi Habi	M-1/S-5	Neutral	Alluvial
Jabrikuchi	M-2/S-1	Neutral	Alluvial
Banbaria	M-2/S-2	Neutral	Alluvial
Bhella	M-2/S-3	Neutral	Alluvial
Khankarpara	M-2/S-4	Neutral	Alluvial
Bara	M-2/S-5	Neutral	Alluvial
Barbila	M-2/S-6	Neutral	Alluvial
Batikuriha	M-3/S-1	Neutral	Alluvial
Kaljahi	M-3/S-2	Neutral	Alluvial
Sila	M-3/S-3	Neutral	Alluvial
Omura (Gumura)	M-3/S-4	Neutral	Alluvial
Damal Jar	M-3/S-5	Neutral	Alluvial
Suha Bil Daloni (Sohabil Doloni)	M-3/S-6	Neutral	Alluvial
Dakreswar	M-3/S-7	Neutral	Sandy Loam
Bar Suha (Barsoha)	M-3/S-8	Neutral	Sandy Loam
Belortari	M-4/S-1	Neutral	Sandy Loam
Khapan Baria Bhitha	M-4/S-2	Neutral	Sandy Loam
Bar Ghol	M-4/S-3	Neutral	Sandy Loam
Kachari Para	M-4/S-4	Neutral	Sandy Loam
Pajar Bhanga	M-4/S-5	Neutral	Sandy Loam
Bar Baradi	M-4/S-6	Neutral	Sandy Loam
Balapara	M-4/S-7	Neutral	Sandy Loam
Tarabari	M-4/S-8	Neutral	Sandy Loam
Guma (Goma)	M-4/S-9	Neutral	Sandy Loam

Source: Field Survey data

**Table No.2.7.1 Climatic Condition**

Sl No	Year	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			at 1613	at 1313	
1	2016-17	139.30	1671.80	28.00	19.20	35.3	2.1	88	61	<b>1020</b>
2	2017-18	137.00	1644.40	29.10	19.70	32.6	2.2	87	59	
3	2018-19	197.50	2370.30	28.00	19.10	30	2	88	62	
4	2019-20	134.80	1617.00	28.40	19.20	26.4	1.9	89	62	
5	2020-21	138.50	1661.50	28.40	18.50	27.7	2.1	87	60	

Source: Regional Meteorological Centre, Guwahati

**Table No.-2.8 Physiographic Features**

<b>Elevation (MSL)</b>	<b>Slope Range(%)</b>	<b>Order of Watershed</b>	<b>Major Stream</b>	<b>Toposequence (Soil series)</b>	<b>Average annual soil loss(Ton / hectare/year)</b>
38 Mtr	Avg- 1.5%	1st	Chaulkhowa	Alluvial, Sandy Loam	Average 0.5 T/Ha/Year

Source: Field Survey data

**Table No. 2.9 Watershed characteristics**

<b>Shape index of the watershed</b>	<b>Length of main stream</b>	<b>Drainage density</b>	<b>Average slope</b>	<b>Watershed relief</b>	<b>Perimeter of the watershed</b>
Elongated	4.8	72.98	1.5	Plain	57.5KM

Source: Field Survey & GIS data

## 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	<b>Population</b>	22631	21053	43684
	SC	253	233	486
	ST	18	12	30
	BC	-	-	-
	Others	22360	20808	43168
2	<b>Children(0-14 years)</b>	7162	6920	14082
3	<b>Sex Ratio</b>	930		
4	<b>Literacy (%)</b>	60.02	49.20	54.81
	<b>Literates</b>	13584	10359	23943
	<b>Illiterates</b>	9047	10694	19741
5	<b>Work Force</b>	11394	2667	14061
	<b>Agriculture</b>	7975	2021	9996
	<b>Industrial/Business</b>	2164	423	2305
	<b>Service</b>	1255	223	2305
6	<b>Birth Rate</b>	-	-	-
7	<b>Death Rate</b>	-	-	-

Source: Field Survey Data & Census Data

**Table No. 3.2: Livestock details:**

Sl.No	Feature	No./ quantity)
1	<b>Milch Animals</b>	
	Cows	8488
	Buffaloes	127
	Goat, sheep	18131
2	<b>Draft Animals</b>	
	Ox	1520
	He Buffalo	21
3	<b>Others</b>	
	Poultry	27212
	Piggery	-
4	<b>Total Milk production</b> from milch animals (ltrs/day)	Average 8200 Ltr per Day
5	<b>Fodder Availability</b>	
	Dry (Abundant/Sufficient/ Scarce)	Sufficient
	Green (Abundant/Sufficient/ Scarce)	Sufficient
6	<b>Fuel wood Availability</b> (Abundant/Sufficient/Scarce)	Sufficient

Source: Field Survey Data



**Table No.3.3: Socio- economic status**

1	2	3	4	5						6			
Sl. 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	7161	1207	62.00	3.50	2228.00	0.00	0.00	0.00	45000	45000	45000	135000
2	Small Farmers	1214	0	18.00	1.50	1489.00	0.00	0.00	0.00	60000	60000	60000	180000
3	Big farmers	60	0	3.00	0.00	202.00	0.00	0.00	0.00	80000	80000	80000	240000
4	Landless	701	701	8.00	0.00	202.00	0.00	0.00	0.00	25000	25000	25000	75000
	<b>Total</b>	<b>9136</b>	<b>1908</b>	<b>91.00</b>	<b>5.00</b>	<b>4121.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>210000</b>	<b>210000</b>	<b>210000</b>	<b>630000</b>

Source: Field Survey Data

**Table No. 3.4: Migration Details:**

Name of Village	No. of persons migrating			No. of days per year of migration	Major reason(s) for migrating	Distance of destination of migration from the village (km)	Occupation during migration	Income from such occupation (Rs.)
	M	F	Total					
Panichilla	31	6	37	150-180 days	Lack in sufficient employment generation, For Better Opportunity, Lack of irrigation facility, Mono Crop Area etc.	2 km to 50 Km	Daily labour, business, vegetable vendor	Average Rs. 20,000/- per Annum
Kharua Para (Nagaon Kharuapara	23	8	31					
Tatikuchi	15	3	18					
Radhakuchi	33	10	43					
Radhakuchi Habi	42	13	55					
Jabrikuchi	17	6	23					
Banbaria	51	13	64					
Bhella	34	8	42					
Khankarpara	28	11	39					
Bara	22	8	30					
Barbila	29	13	42					
Batikuriha	30	14	44					
Kaljahi	18	7	25					
Sila	27	6	33					
Omura (Gumura)	19	3	22					
Damal Jar	17	6	23					
Suha Bil Daloni(Sohabil Doloni	22	9	31					
Dakreswar	18	7	25					
Bar Suha (Barsoha)	19	10	29					
Belortari	23	10	33					

Name of Village	No. of persons migrating			No. of days per year of migration	Major reason(s) for migrating	Distance of destination of migration from the village (km)	Occupation during migration	Income from such occupation (Rs.)
	M	F	Total					
Khapan Baria Bhitha	24	13	37					
Bar Ghol	34	15	49					
Kachari Para	25	4	29					
Pajar Bhanga	24	9	33					
Bar Baradi	23	16	39					
Balapara	26	9	35					
Tarabari	28	9	37					
Guma (Goma)	27	6	33					
<b>Total</b>	<b>729</b>	<b>252</b>	<b>981</b>					

Source: Field Survey Data

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

1	2	3				4			5			6			7			8			9		
		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	30	75	-	105	(i) Landless	29	68	97	1	0	1	2	8	10	26	60	86	29	68	97	72	NA
						(ii) MF	257	640	897	2	5	7	12	28	40	243	607	850	120	321	441		
						(iii) SF	42	112	154	0	0	0	4	12	16	38	100	138	0	0	0		
						(iv) LF	2	5	7	0	0	0	1	1	2	1	4	5	0	0	0		
	<b>Total</b>						<b>330</b>	<b>825</b>	<b>1155</b>	<b>3</b>	<b>5</b>	<b>8</b>	<b>19</b>	<b>49</b>	<b>68</b>	<b>308</b>	<b>771</b>	<b>1079</b>	<b>149</b>	<b>389</b>	<b>538</b>		
2	UGs	7	0	0	7	(i) Landless	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NA	NA	
						(ii) MF	49	0	49	0	0	0	5	0	5	44	0	44	49	0			49
						(iii) SF	33	0	33	0	0	0	7	0	7	26	0	26	0	0			0
						(iv) LF	2	0	2	0	0	0	0	0	0	2	0	2	0	0			0
	<b>Total</b>						<b>84</b>	<b>0</b>	<b>84</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>12</b>	<b>0</b>	<b>12</b>	<b>72</b>	<b>0</b>	<b>72</b>	<b>49</b>	<b>0</b>	<b>49</b>		

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.

Source: Field Survey data

**Table No. 3.6: Infrastructure Facilities:**

1	2	3	4	5
Sl.No	Infrastructure type	No./Quantity	Distance (km)	Status (description)
1	Educational Institutions			
	Anganwadi	54	Within the village	Functional
	Primary School	49	Within the village	Functional
	Secondary school	11	Within the village	Functional
	Govt. College	1	Within the village	Functional
	Vocational Institutions	NA	Barpeta 8 Km	Functional
2	Service Institutions	-	-	-
	Bank	1	Within the village	Functional
	Post office	2 & 2 Sub Post Office	Within the village	Functional
	Primary Health Care Center	3	Within the village	Functional
	Veterinary Center	2	Within the village	Functional
	Markets/ Village Haat	22	Within the village	Functional
3	No. of bore wells/pump sets (Functional)	NA	NA	NA
4	No. of Milk collection centers	1	Within the village	Functional
	( Union/ Society/ Pvt. Agency/Others)	-	-	-
	Total Quantity of surplus milk	3200	-	-
5	Road Connectivity (to main road by an all-weather road) (Yes/No)	Yes	Within the village	Functional
6	Bus facility (Yes/No)	Yes	Within the village	Functional
7	No. of HHs provided electricity	8746	Within the village	Functional
8	No. of HHs with access to drinking water	7849	Within the village	Functional
9	Access to Agro Industries (Yes/No)	No	-	-
10	Any other facilities (specify-----)			

Source: Filed Survey Data

**Table No.3.7 Land use pattern (in Hectares)**

S. No	Name	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	Panichilla	96	0	0	4	0	30	0	0.00	62	0	62	23	85
2	Kharua Para (Nagaon Kharuapara)	274	0	0	7	0	50	0	0.00	217	0	217	80	297
3	Tatikuchi	118	0	0	3	0	21	0	0.00	94	0	94	34	128
4	Radhakuchi	279	0	0	11	0	81	0	0.00	187	0	187	71	258
5	Radhakuchi Habi	282	0	0	14	0	120	0	0.00	148	0	148	50	198
6	Jabrikuchi	88	0	0	2	0	4	0	0.00	82	0	82	34	116
7	Banbaria	130	0	0	3	0	30	0	0.00	97	0	97	41	138
8	Bhella	268	0	0	12	0	92	0	0.00	164	0	164	64	228
9	Khankarpara	347	0	0	16	0	130	0	0.00	201	0	201	82	283
10	Bara	94	0	0	3	0	28	0	0.00	63	0	63	22	85
11	Barbila	149	0	0	4	0	30	0	0.00	115	0	115	50	165
12	Batikuriha	209	0	0	11	0	86	0	0.00	112	0	112	43	155
13	Kaljahi	159	0	0	6	0	46	0	0.00	107	0	107	40	147
14	Sila	164	0	0	6	0	62	0	0.00	96	0	96	32	128
15	Omura (Gumura)	68	0	0	4	0	24	0	0.00	40	0	40	14	54
16	Damal Jar	264	0	0	10	0	88	0	0.00	166	0	166	65	231
17	Suha Bil Daloni (Sohabil Doloni)	158	0	0	5	0	48	0	0.00	105	0	105	33	138
18	Dakreswar	152	0	0	3	0	35	0	0.00	114	0	114	41	155
19	Bar Suha (Barsoha)	185	0	0	3	0	39	0	0.00	143	0	143	56	199
20	Belortari	152	0	0	5	0	58	58	0.00	31	0	31	11	42
21	Khapan Baria Bhitha	319	0	0	4	0	30	20	0.00	265	0	265	103	368

S. No	Name	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			
22	Bar Ghol	360	0	0	3	0	37	32	0.00	288	0	288	112	400
23	Kachari Para	378	0	0	7	0	48	11	0.00	312	0	312	117	429
24	Pajar Bhanga	303	0	0	6	0	68	64	0.00	165	0	165	71	236
25	Bar Baradi	141	0	0	2	0	18	2	0.00	119	0	119	57	176
26	Balapara	483	0	0	10	0	80	151	0.00	<b>242</b>	0	242	94	336
27	Tarabari	340	0	0	4	0	52	59	0.00	225	0	225	80	305
28	Guma (Goma)	206	0	0	2	0	22	21	0.00	161	0	161	65	226
	<b>TOTAL</b>	<b>6166</b>	<b>0</b>	<b>0</b>	<b>170</b>	<b>0</b>	<b>1457</b>	<b>418</b>	<b>0</b>	<b>4121</b>	<b>0</b>	<b>4121</b>	<b>1585</b>	<b>5706</b>

Source: Field Survey Data & census Data

**Table No. 3.8: Details of Common Property Resources**

1	2	3				4			
Sl.No	CPR	Total Area (ha)				Area available for treatment (ha)			
	Particulars	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	212.00	206.00	-	-	212.00	206.00	-	-
2	Pastures	-	-	-	-	-	-	-	-
3	Orchards	-	-	-	-	-	-	-	-
4	Village Forest (Homestead Tree Clad area)	116.00	-	-	-	-	-	-	-
5	Forest	-	-	-	-	-	-	-	-
6	Village Ponds/ Tanks	91.00	-	-	8.00	-	-	-	8.00
7	Community Buildings	-	-	2.00	4.00	-	-	-	-
8	Weekly Markets	-	-	4.00	2.00	-	-	-	-
9	Permanent markets	16.00	-	4.00	-	-	-	-	-
10	Temples/ Places of worship	-	-	-	18.00	-	-	-	-
11	Others (Pl. specify)	-	-	-	-	-	-	-	-
<b>Total</b>		<b>435.00</b>	<b>206.00</b>	<b>10.00</b>	<b>32.00</b>	<b>212.00</b>	<b>206.00</b>	<b>0.00</b>	<b>8.00</b>

Source: Field Survey Data



**Table No. 3.10: Crop Classification**

1	2	3
S. No	Crop classification	Area (Hec)
1	Single crop	4121
2	Double crop	1582
3	Multiple crop	-

Source: Field Survey Data

**Table No. 3.9: Agriculture implements:**

1	2	3
S. No	Implements	Nos.
1	Tractor	32
2	Sprayers-manual/ power	116
3	Cultivators/Harrows	NA
4	Seed drill	NA

Source: Field Survey Data

**Table No. 3.11: Crops & Cropping pattern**

1	2	3	4				5				6			
Sl. 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	Paddy	3746	6069	1620	15000	0	0	0	0	3746	6069	1620	15000
		Vegetables	231	878	3800	30000	0	0	0	0	231	878	3800	30000
2	Rabi	Paddy	324	648	2000	20000	0	0	0	0	324	648	2000	20000
		Mustard	392	235	600	14000	0	0	0	0	392	235	600	14000
		Black gram	121	79	650	14000	0	0	0	0	121	79	650	14000
		Lentil	34	17	500	14000	0	0	0	0	34	17	500	14000
		Green gram	18	9	500	14000	0	0	0	0	18	9	500	14000
		Vegetables	317	951	3000	11000	0	0	0	0	317	951	3000	11000
3	Summer	Vegetables	523	1464	2800	8000	0	0	0	0	523	1464	2800	8000
	<b>Total</b>		<b>5706</b>	<b>10350</b>	<b>15470</b>	<b>140000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5706</b>	<b>10350</b>	<b>15470</b>	<b>140000</b>

Source: Field Survey Data

**Table No. 3.12: Land capability Classification**

Sl.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)				Land class
				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	Sandy Loam	6166	Sandy Loam	181	324	1988	482	318	5270	660	236	0	4422	308	185	0	-
2	- Clay Loam		Clay Loam	127	341	1524	451	430									
<b>Total</b>		<b>6166</b>		<b>308</b>	<b>665</b>	<b>3512</b>	<b>933</b>	<b>748</b>	<b>5270</b>	<b>660</b>	<b>236</b>	<b>0</b>	<b>4422</b>	<b>308</b>	<b>185</b>	<b>0</b>	<b>0</b>

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

Source: Field Survey Data

**Table No.3.13: Irrigation facilities**

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

**Table No. 3.14: Status of water table**

Sl.No	Source (open well)**	Location	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	Well/TW	Panichilla	B001	Near Taizuddin	11/11/2021	2.500	Valley	
2		Kharua Para (Nagaon Kharuapara)	B002	Near 1262 No. Uttar Khaurapara LPS	11/11/2021	4.000	Valley	
3		Tatikuchi	B003	Near Tatikuchi Masjid	11/11/2021	2.000	Valley	
4		Jabrikuchi	B004	Near Bangshi Boro	11/11/2021	3.000	Valley	
5		Khankarpara	B005	Habizur Rahman	12/11/2021	3.000	Valley	
6		Bara	B006	Near Sarat Das	12/11/2021	3.000	Valley	
7		Barbila	B007	Near Masjid	12/11/2021	3.500	Valley	
8		Kaljahi	B008	Near 389 No. Barbila Girls LPS	12/11/2021	3.500	Valley	
9		Damal Jar	B009	Near Hasmata Ali	15/11/2021	3.500	Valley	
10		Dakreswar	B010	Near Monir Hussain	15/11/2021	2.500	Valley	
11		Belortari	B011	Near Niyat Ali	15/11/2021	2.000	Valley	

Sl.No	Source (open well)**	Location	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
12		Bar Ghol	B012	Near Barghol Maszid	15/11/2021	4.000	Valley	
13		Pajar Bhanga	B013	Near Pazarbhanga H.S.	15/11/2021	4.000	Valley	
14		Bar Baradi	B014	Near Bar Baradi Girls LPS	17/11/2021	3.500	Valley	
15		Balapara	B015	Near Hasan Ali	17/11/2021	3.500	Valley	
16		Tarabari	B016	Near Maktab Ghor	17/11/2021	3.500	Valley	
17		Guma (Goma)	B017	Near Feddus Kazi	17/11/2021	3.500	Valley	

Source: Field Survey Data

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

1	2	3	4	5
Sl.No	Item	Units	Quantity	Source
1	Drinking water requirement	Ltrs/day	131052	Tube Well, Govt Supply, River
2	Present availability of drinking water	Ltrs/day	102221	Tube Well, Govt Supply, River
3	No. of drinking water sources available	Nos	7849	Tube Well, Govt Supply, River
a)	Functional	Nos	7849	Tube Well, Govt Supply, River
b)	Need Repairing	Nos	29	Tube Well, Govt Supply, River
c)	Defunct	Nos	71	Tube Well, Govt Supply, River
4	Short fall if any	Ltrs/day	28831	-
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.	1287	

\* based on the observation from the field / Source: Field Survey Data

**Table No. 3.16: Surface water resources**

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

**Table No. 3.17 Ground Water Structures to be repaired**

Sl.No	Type of structure	No. available			Total
		No. to be Repaired	No. to be rejuvenated	No. with no interventions required	
N.A.					
	<b>Total</b>				

**Table No. 3.18: Existing Water Saving Practices**

Name of the Major Crop	Area (Ha)			Total	Current water Saving status as against flood irrigation. (Cu.m)
	Under water saving devices\$	Under water conserving agronomic practices#	Any other (Pl. Specify)		
Kharif Paddy	-	3746	-	3746	-
Rabi Paddy	-	324	-	324	-
Mustard		392	-	392	-
Black gram	-	121	-	121	-
Vegetable	-	523		523	-

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

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

Source: Field Survey Data

**Table No. 3.19: Details of existing livelihoods**

1	2	3					4
Sl. No.	Name of activity	No. of beneficiaries					Pre-project average income per HH (Rs.)
		SC	ST	Others	Total	Women	
1	Dairy	52	2	4821	4875	625	40000
2	Goatary	18	2	7612	7632	1520	30000
3	Duckery	10	4	9120	9134	1860	25000
4	Poultry	22	4	9120	9146	1820	25000
	<b>TOTAL</b>	<b>102</b>	<b>12</b>	<b>30673</b>	<b>30787</b>	<b>5825</b>	

Source: Field Survey Data

**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	<b>Soil Conservation</b> (slope, erosion, soil loss, rainfall, productivity, etc)	<ol style="list-style-type: none"> <li>1. Soil Erosion, and heavy soil loss in upland area.</li> <li>2. Sheet erosion is combatively high in many places.</li> <li>3. unpredictable nature of Soil</li> </ol>	<ol style="list-style-type: none"> <li>1. Construction of graded bund and field bund to protect the soil erosion and siltation problems.</li> </ol>
2	<b>Water conservation</b> (Water budget, Ground water norms, productivity)	<ol style="list-style-type: none"> <li>1. Degradation of Natural Resource such as congestion of natural drainage,</li> <li>2. Lack of water storage facility results in shortage of water during winter.</li> <li>3. Run-off resulting from seasonal rain conquers high velocity due to steep slope in the watershed and thereby causes different types of soil erosion hazards.</li> <li>4. Due to inadequate irrigation infrastructure mainly mono cropping is done</li> </ol>	<ol style="list-style-type: none"> <li>1. Re-generation of drainage channel by excavation and reclamation activities.</li> <li>2. Reclamation of natural water bodies (beels) by excavating and constructing periphery bund etc. toIncrease water storage capacity.</li> <li>3. creation of Farm Pond and related distribution channel for water harvesting/storage and irrigation</li> <li>4. Construction of Nullabund to control the waterlogging problem.</li> </ol>
3	<b>Crop coverage</b> – {80% of w/s area should be with canopy}	<ol style="list-style-type: none"> <li>1. Rabi crop area is proportionately small due to inadequate irrigation facilities.</li> <li>2. Predominance Mono cropping</li> <li>3. Flooding problem during summer</li> </ol>	<ol style="list-style-type: none"> <li>1. Agro-forestry, fuel wood plantation</li> <li>2. Turmeric &amp; Banana Plantation</li> </ol>

1	2	3	4
S.No	Problem area	Problem analysis	Proposed interventions to overcome problems
		4. Scarce vegetative cover over the area	
4	<b>Agriculture productivity</b> (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 locally available agri-technologies to match the high ecological diversity of rainfed area etc.	1. Brick canal and water storage farm pond for irrigation for both Rabi & Kharif crop.
5	<b>Livestock productivity</b> (Milk Yield, Meat yield, Eggs, Wool Yield, Kidding etc.)	1. Dearth of fodder during flood period. 2. Lack of protected shelter for the inhabitants during flood period 3. lack of grazing land effects the production of milk and allied products, which inturn results in inadequate nutrition. 4. Diseases which reduce the production potential of livestock.	1. Promotion of Marketing facilities through SHG 2. Promotion of Dairy, Piggery, goatery, Duckery and Poultry farming activities.
6	<b>Existing Livelihood activities for Asset less persons</b>	1. Less income generating unsustained activities. 2. Their present occupation is Daily Labour, Rikswa Pullers etc.	1. Promotion of Dairy, Piggery, goaery, Duckery and Poultry farming activities. 2. Promotion of weaving activities for asset less woman.
7	<b>Community Based Organizations &amp; Social capital base</b>	1. Most of the SHGs are not functional.	1. Formation of SHG, User groups for promotion of various income generating activities
8	<b>Capacity Building</b> (participation,	1. In many villages it is observed that the Participation in Gram Sabha is very low due	1. Conducting Awareness programmes



<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
<b>S.No</b>	<b>Problem area</b>	<b>Problem analysis</b>	<b>Proposed interventions to overcome problems</b>
	training, awareness of watershed community	to lack of awareness towards watershed development activities.	among the villagers. 2. Providing training in respect to each activities proposed for watershed development as well as livelihood generation.
9	<b>Others (specify)</b>	1. Lack of Marketing and trading 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		
		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		
Sl. No.	Type of Group	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	350	400	163	913	(i) Landless	650	701	1351	2	2	4	12	16	28	636	683	1319	650	701	1351	NA	NA
						(ii) MF	3765	8068	11833	2	2	4	45	70	115	3718	7996	11714	86	75	161		
						(iii) SF	232	1214	1446	0	0	0	2	4	6	230	1210	1440	0	0	0		
						(iv) LF	18	60	78	0	0	0	0	0	0	18	60	78	0	0	0		
	<b>Total</b>						<b>4665</b>	<b>10043</b>	<b>14708</b>	<b>4</b>	<b>4</b>	<b>8</b>	<b>59</b>	<b>90</b>	<b>149</b>	<b>4602</b>	<b>9949</b>	<b>14551</b>	<b>736</b>	<b>776</b>	<b>1512</b>		
2	UGs	50	-	37	87	(i) Landless	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NA	NA
						(ii) MF	1135	65	1200	142	4	146	98	12	110	895	49	944	0	0	0		
						(iii) SF	475	22	497	7	2	9	27	5	32	441	15	456	0	0	0		
						(iv) LF	28	0	28	0	0	0	0	0	0	28	0	28	0	0	0		
<b>Total</b>						<b>1638</b>	<b>87</b>	<b>1725</b>	<b>149</b>	<b>6</b>	<b>155</b>	<b>125</b>	<b>17</b>	<b>142</b>	<b>1364</b>	<b>64</b>	<b>1428</b>	<b>0</b>	<b>0</b>	<b>0</b>			

#### 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	Date of Birth	SC	ST	SF	MF	LF	Land-less	UG	SHG	GP	Any other	Educl qualification	Function/s assigned#	
						Write "Yes" if applicable													
Sitolijan	under process	11	Chairperson	Mastaf Ali	M	1/1/1981									Bhella		BA/LLB	B,C,D,E,F,G,H & J(Arrangement of WC meeting)	
			Secretary	Syeda Masuma Sultana	F	1/1/1986										Bhella		HS	B,C,D,E,F,G,H & J(Arrangement of WC meeting)
			Member	Rena Begum	F	4/5/1994									Y	Bhella		BA	B, E & G
			Member	Raj Kamal Ahmed	M	7/1/1980										Bhella		HS	B, E & G
			Member	Rumi Begum	F	1/1/1993										Bhella		HSLC	B, E & G
			Member	Mafida Begum	F	1/1/1984									Y	Bhella		HS	B, E & G
			Member	Rashim Ali	M	4/20/1973										Bhella		HSLC	B, E & G
			Member	Jonmoni Das	M	12/31/1991	Y									Barbila		HS	B, E & G
			Member	Babul Khandakar	M	9/21/1961			Y							Bhella		HSLC	B, E & G
			Member	Nur Islam	M	10/1/1982							Y			Bhella		HSLC	B, E & G
Member	Abul Hussain	M	6/7/1978					Y					Bhella		HSLC	B, E & G			

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	Date of Birth	SC	ST	SF	MF	LF	Land-less	UG	SHG	GP	Any other	Educational qualification	Function/s assigned#		
						Write "Yes" if applicable														
Radhakuchi	under process	11	Chairperson	Shaizuddin Ahmed	M	1/11/1975										Radhakuchi	HSLC	B,C,D,E,F,G,H J(Arrangement of WC meeting)		
			Secretary	Samsul Haque	M	1/1/1994												Radhakuchi	BA	B,C,D,E,F,G,H J(Arrangement of WC meeting)
			Member	Moniul Hoque	M	12/31/1976												Radhakuchi	HSLC	B, E & G
			Member	Sahibar Rahman	M	12/31/1992												Radhakuchi	HS	B, E & G
			Member	Tanjuwara Begum	F	1/31/1983										Y		Radhakuchi	BA	B, E & G
			Member	Ajmat Ali	M	3/1/1978				Y								Radhakuchi	10th	B, E & G
			Member	Jahanara Khatun	F	1/1/1974										Y		Radhakuchi	10th	B, E & G
			Member	Kahinur Parbin	F	5/25/1992												Radhakuchi	10th	B, E & G
			Member	Shariyat Khan	M	10/5/1975					Y							Radhakuchi	10th	B, E & G
			Member	Rekat Kan	M	1/1/1969								Y				Radhakuchi	10th	B, E & G
Member	Chatur Ali	M	1/9/1957												Radhakuchi	10 th	B, E & G			
Batikuriha	under process	11	Chairperson	Ansuman Sarma	M	16/10/1997										Barbila	HS	B,C,D,E,F,G,H J(Arrangement of WC meeting)		

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	Date of Birth	SC	ST	SF	MF	LF	Land-less	UG	SHG	GP	Any other	Educl qualification	Function/s assigned#		
						Write "Yes" if applicable														
			Secretary	Hazarat Khan	M	1/1/1987			Y						Pajar Bhanga		HSLC	B,C,D,E,F,G,H J(Arrangement of WC meeting)		
			Member	Archana Barua	F	1/10/1975									Y	Barbila		HSLC	B, E & G	
			Member	Jaynal Mollah	M	31/12/1996				Y							Barbila		HSLC	B, E & G
			Member	Sahil Akhtar	M	23/07/2002									Y	Pajar Bhanga		HS	B, E & G	
			Member	Anima Seal	F	1/1/1973									Y	Barbila		HS	B, E & G	
			Member	Jagannath Das	M	20/11/1969				Y							Nagaon		HSLC	B, E & G
			Member	Arjun Sarma	M	18/5/1964											Pajar Bhanga		HSLC	B, E & G
			Member	Faizur Rahman	M	1/1/1998								Y			Barbila		HSLC	B, E & G
			Member	Nopul Das	M	1/1/1988			Y								Barbila		HS	B, E & G
			Member	Anima Pathak	M	1/1/1982											Barbila		10th	B, E & G
			Guma	under process	12	Chairperson	Makbul Hussain	M	11/30/1976			Y						Guma		BA
Secretary	Omen Bayan	M				3/1/1966				Y						Barbila		HS	B,C,D,E,F,G,H J(Arrangement of WC meeting)	

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	Date of Birth	SC	ST	SF	MF	LF	Land-less	UG	SHG	GP	Any other	Educl qualification	Function/s assigned#
						Write "Yes" if applicable												
																		meeting)
			Member	Rubul Amin	M	1/1/1979			Y						Guma		HSLC	B, E & G
			Member	Sahanaj Parbin	F	5/15/1996								Y	Guma		HS	B, E & G
			Member	Jahangir Ali	M	2/3/2000									Guma		HS	B, E & G
			Member	Aynal Hoque	M	1/1/1991			Y						Pajarbhanga		BA	B, E & G
			Member	Armina Begum	F	1/1/1989								Y	Pajarbhanga		HSLC	B, E & G
			Member	Elima Sultana	F	5/1/1978								Y	Pajarbhanga		HSLC	B, E & G
			Member	Anisuz Zaman	M	12/31/1998									Pajarbhanga		HS	B, E & G
			Member	Motiur Rahman	M	1/1/1956				Y					Pajarbhanga		HS	B, E & G
			Member	Jahuruddin Ahmed	M	31/2/1977			Y						Pajarbhanga		HS	B, E & G
			Member	Sanjib bayan	M	3/5/1988			Y						Batikuria		HSLC	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 `]`, 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
Sl.No	Names of WDT members	M/F#	Age	Qualification / Experience	Description of professional training	Role/ Function*
1	Sri Gaurisankar Bezbaruah	Male	42 Yrs.	H.S (Sc.), Diploma in Civil Engg.	Soil & Water Conservation at NIRD	A, B, C, D, E, F, G, H, I & J (Arrangement of meeting & Training)
2	Naba Kr. Choudhury	Male	54 Yrs.	Diploma in Textile Technology	Training on Handloom & textile	B, E & G
3	Deepak Das	Male	54 Yrs.	Polytechnic and B.A	Training on Sericulture	B, E & G
4	Sri Alok Kumar Das	Male	49 Yrs	B.Sc (Agril)	Training on Agro Horticulture	B, E & G
5	Dr. Gunajit Choudhury	Male	55 Yrs.	B.Sc & A.H	-	B, E & G
6	Prasen Das	Male	57 Yrs	HSLC	-	B, E & G

Source: PIA, Barpeta-I (Mora Chaulkhiwa Part-I)

\*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                            | 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. 4.4: PIA particulars**

1	2	3
S.No	Particulars	Details of PIA
1.	Type of organization#	Govt. Department
2.	Name of organization	Department of Soil Conservation
3.	Designation & Address	Divisional Officer, Barpeta Soil Conservation Division, Barpeta, Assam
4.	Telephone	9435054444
5.	Fax	---
6.	E-mail	do_barpetascddivision1@rediffmail.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
<b>Barpeta-I/2021-22 (Mora Choulkhowa Pt-I) WDC-PMKSY 2.0</b>	State Bank of India, Barpeta Bazar Branch	40754231294	Divisional Officer, Barpeta Soil Conservation Division	Divisional Officer, Barpeta Soil Conservation Division, Barpeta, Assam
Radhakuchi MWS			Under Process	
Sitolijan MWS			Under Process	
Batikuriha MWS			Under Process	
Guma MWS			Under Process	

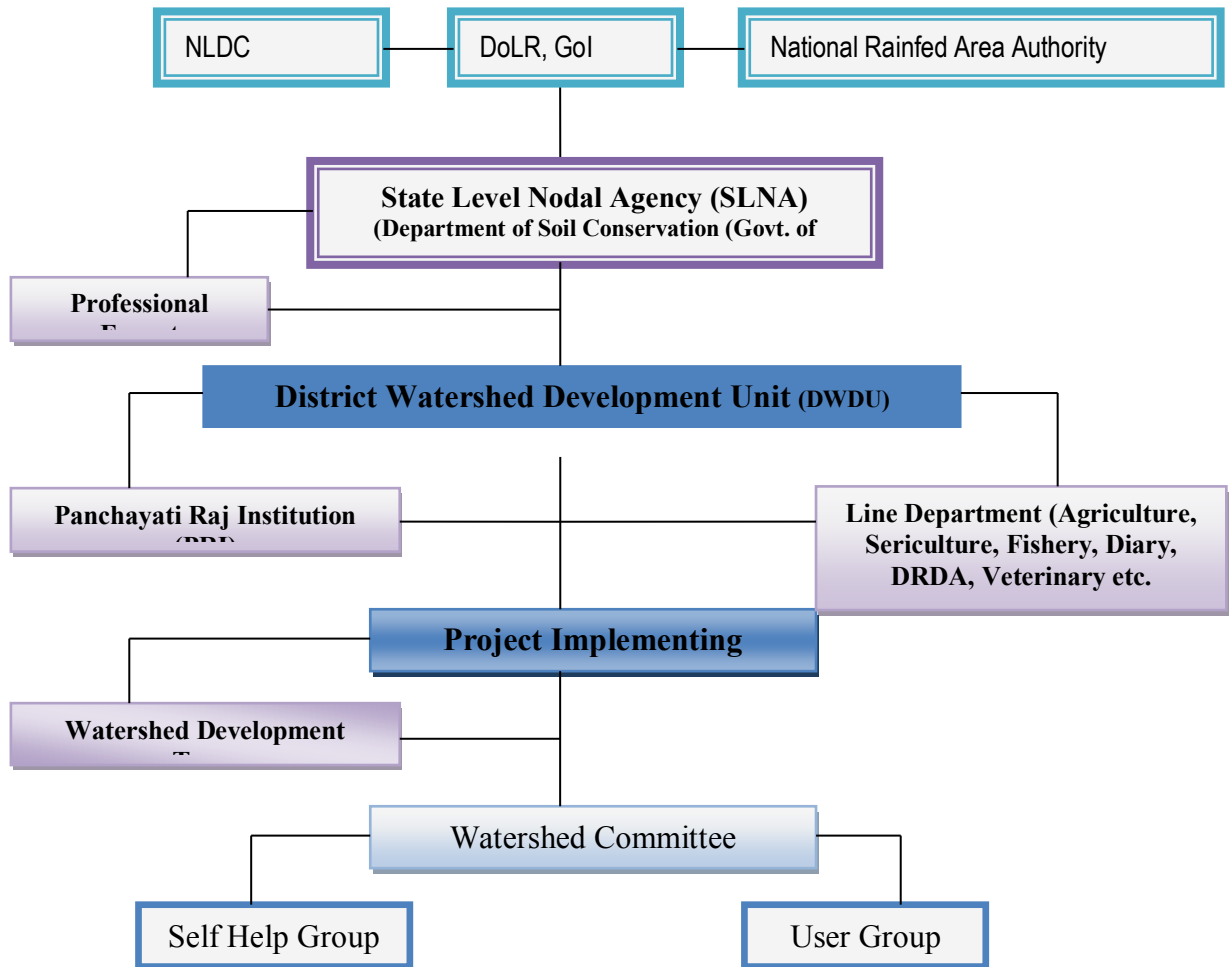


**Table No. 4.5 Convergence plan with IWMP**

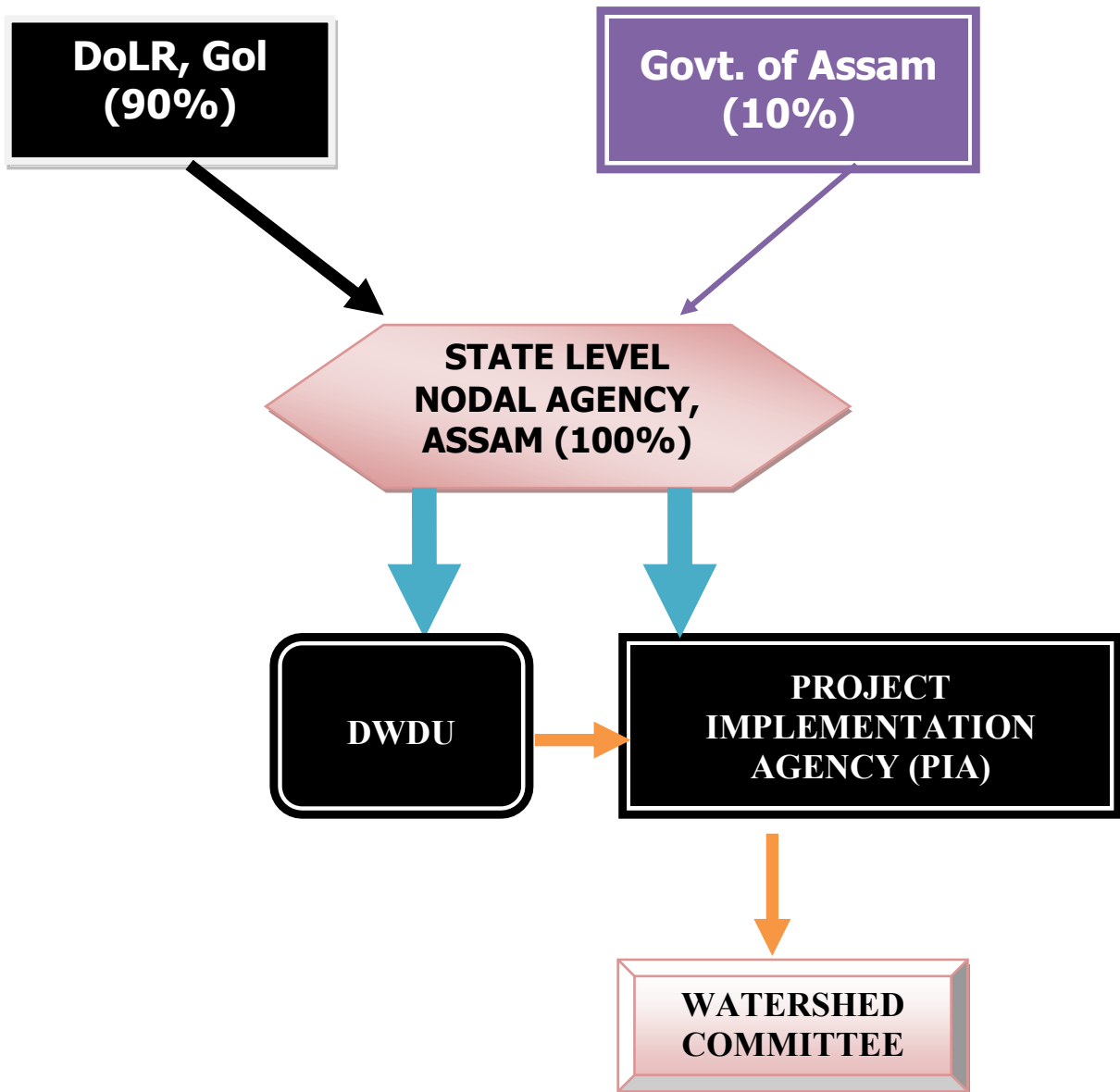
1	2	3	4	5	6	7
S. No.	Names of Departments with Schemes converging with IWMP	Name of activity/task/structure proposed under convergence	Period of Support	Reference no. of activity/ task/ structure in DPR	Estimated Fund Proposed Under Convergence (in Rs.)	Level of decision taken for convergence
		(a) Structures	(Years)			Block/district
		(b) livelihoods				
		(c) Capacity Building				
		(d) Any other (pl. specify)				
<b>Under Process</b>						

**\* 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, of which the major are - securing community participation, co-ordination of activities and project management & Controlling, Monitoring.

**Co-ordination** is the practice 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 curative action for problems encountered in implementation of the project.
2. To promote better relationship among organizations, institution, agencies, 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 segments of the society.
4. Team building, which includes recruiting people with appropriate qualification and capability 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. Evaluating the 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 optimistic feedback and constructive criticism.
5. Adjusting plans to respond the changes in the internal and external organizational environment.

**Monitoring** is an important stage of project implementation and it implies the process of routinely gathering information on all aspects of the project.

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 accountable 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 monitor achievements systematically;
- Selection of indicators/parameters to be monitored, the location, methods/processes and frequency of observations and the information processing and reporting procedure are essential; 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 the central theme.
- Ground photographs taken from the same place before and after remedial measures, depicting details about 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.

<b>PIS</b>	<b>Tasks</b>	<b>Responsibility</b>
<b>Project Co-ordination</b>	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
<b>Project Management &amp; Controlling</b>	Progress of Project	Project Manager
	Report generating to account project activities and financial statement	PIA/ Project Manager
	Performance monitoring	PIA/ Project Manager/ WCDC
<b>Monitoring</b>	1 <sup>st</sup> Level Monitoring Staff Performance Work Performance Target achievement	WCDC /Project Manager/PIA
	2 <sup>nd</sup> Level Monitoring Work Quality Deviation Report Financial statement	WCDC / Third Party

## CHAPTER – 5

### Management/Action Plan

#### Description on methodology of plan adopted

##### a) Awareness generation interventions :

- i. Awareness campaign through Gram Sabha in all villages of watershed area is essential. Awareness generation programme will be conducted for all project stakeholders at watershed level with the fundamental purpose of educating them and creating more interest in regard to various aspects of the IWMP project.
- ii. Awareness campaign through distribution of leaflet and brochures describing about the IWMP project.

**b) Initial Orientation program:** For successful completion of the project, orientation of both project personnel and watershed communities according to the changing perspective is vital and it will enhance skills and competency of project staff to work with the villagers. Various training, awareness programme, meeting and seminar shall be conducted to build necessary ability and competency 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:

The study area is confined to 28 villages of Barpeta district of Assam. Both primary and secondary data pertaining to the study were collected from various sources. While the secondary data were collected from various government organizations, published documents and literatures. The primary data were collected from the villagers staying within the watershed area. Structured questionnaires were used for collecting the primary data. The study team also visited many problem prone areas to obtain first-



hand information of natural resources and their uses. Data and information thus collected have been analyzed to know about the characteristics of the problem and prospects. The following are the various steps of data collection & report preparation-

- Secondary data collection, preparations.
- Village meeting & Conduct of Participatory Rural Appraisal (PRA) techniques for problem identification, need assessment and selection of project activities. All the treatment plan and interventions are identified after elaborate PRA exercise.
- Socio Economic Survey of all Households in Watershed village.
- Collection of baseline data such as Demographic features, Livestock details, BPL status, Operational Holdings, Migration particulars, Details of Community Based Organization, Land features, Details of CPR, Crops & Cropping patterns, Soil classification & Erosion status, Climate & Hydrological features, Ground water status, Irrigation facilities, Status of water table, Quality and availability of drinking water, Water budget, Details of livelihoods.
- Problem Typology Analysis.
- Productivity & Livelihoods planning exercise.
- Institutional & Capacity Building plan (with support of Course Directors).
- Data Consolidation & Documentation of DPR.
- Integration of various spatial and non-spatial (attribute) data using the Geographical Information system (GIS). GIS software is an especially effective tool for watershed management. GIS software provides the ability to create a computerized database consisting of spatial (map or image) data.

## 5.2 Details of Natural Resource Management Activities

**Table No. 5.2.1 Soil and Moisture Conservation structures & Surface Water Treatment**

1	2	3	4	5		6	7	8	9	10	11	12	13
Sl. No.	Name of the Activities (Structures)	Name of the Village	Name of the Hamlet	Name of Beneficiaries	Unit	Dimension ( in M/ Sq. M / CuM) of Structure	Unit Cost	Total Cost (in Rs.)	Contribution	Total Grant Amount (in Rs)	Year of Implementation (1st/2nd/3rd/4th/5th)	GPS Points	
												Long	Lat
1	Agril Bund	Banbaria	Banbaria	All Villagers	RM	900	567	510300	25515	510300	2nd Year	26.311175	91.091706
2		Bhella	Bhella	All Villagers	RM	1100	567	623700	31185	623700	3rd Year	26.309148	91.06945
3		Bara	Bara	All Villagers	RM	1050	567	595350	29767.5	595350	2nd Year	26.307538	91.088597
4		Belortari	Belortari	All Villagers	RM	1050	567	595350	29767.5	595350	3rd Year	26.251534	91.067736
4		Barbila	Barbila	All Villagers	RM	1400	567	793800	39690	793800	1st Year	26.309118	91.092894
5		Sila	Sila	All Villagers	RM	700	567	396900	19845	396900	5th Year	26.288012	91.073058
6		Omura (Gumura)	Omura (Gumura)	All Villagers	RM	900	567	510300	25515	510300	1st Year	26.28163	91.085977
7		Damal Jar	Damal Jar	All Villagers	RM	900	567	510300	25515	510300	1st Year	26.27325	91.072753
8	Suha Bil Daloni (Sohabil Doloni)	Suha Bil Daloni (Sohabil Doloni)	All Villagers	RM	1400	567	793800	39690	793800	2nd Year	26.269098	91.067001	

1	2	3	4	5		6	7	8	9	10	11	12	13
Sl. No.	Name of the Activities (Structures)	Name of the Village	Name of the Hamlet	Name of Beneficiaries	Unit	Dimension ( in M/ Sq. M / CuM) of Structure	Unit Cost	Total Cost (in Rs.)	Contribution	Total Grant Amount (in Rs)	Year of Implementation (1st/2nd/3rd/4th/5th)	GPS Points	
												Long	Lat
9		Bar Suha (Barsoha)	Bar Suha (Barsoha)	All Villagers	RM	900	567	510300	25515	510300	3rd Year	26.268199	91.093876
10		Bar Suha (Barsoha)	Bar Suha (Barsoha)	All Villagers	RM	900	567	510300	25515	510300	2nd Year	26.270683	91.093789
10		Bar Ghol	Bar Ghol	All Villagers	RM	500	567	283500	14175	283500	1st Year	26.254932	91.088502
10		Kachari Para	Kachari Para	All Villagers	RM	400	567	226800	11340	226800	3rd Year	26.254932	91.085724
10		Pajar Bhanga	Pajar Bhanga	All Villagers	RM	400	567	226800	11340	226800	2nd Year	26.254932	91.085724
10		Bar Baradi	Bar Baradi	All Villagers	RM	400	567	226800	11340	226800	2nd Year	26.255754	91.08679
10		Balapara	Balapara	All Villagers	RM	400	567	226800	11340	226800	3rd Year	26.229917°	91.101878°
10		Tarabari	Tarabari	All Villagers	RM	400	567	226800	11340	226800	2nd Year	26.229421°	91.127302°
10		Guma (Goma)	Guma (Goma)	All Villagers	RM	400	567	226800	11340	226800	1st Year	26.256131°	91.110273°
<b>Sub Total</b>						<b>14100</b>	<b>10206</b>	<b>7994700</b>	<b>399735</b>	<b>7994700</b>			
1	Agril Bund (with Hume Pipe)	Belortari	Belortari	All Villagers	RM	900	567	510300	25515	510300	1st Year	26.251452	91.061383
2		Belortari	Belortari	All Villagers	RM	1050	567	595350	29767.5	595350	2nd Year	26.249036	91.060853

1	2	3	4	5		6	7	8	9	10	11	12	13
Sl. No.	Name of the Activities (Structures)	Name of the Village	Name of the Hamlet	Name of Beneficiaries	Unit	Dimension ( in M/ Sq. M / CuM) of Structure	Unit Cost	Total Cost (in Rs.)	Contribution	Total Grant Amount (in Rs)	Year of Implementation (1st/2nd/3rd/4th/5th)	GPS Points	
												Long	Lat
<b>Sub Total</b>						<b>1950</b>		<b>1105650</b>	<b>55282.5</b>	<b>1105650</b>			
1	Agri Bund (with Slab Culvert)	Kaljahi	Kaljahi	All Villagers	RM	900	567	510300	25515	510300	1st Year	26.289057	91.090213
<b>Sub Total</b>						<b>900</b>		<b>510300</b>	<b>25515</b>	<b>510300</b>			
1	Brick Canal (Slab Culvert)	Omura (Gumura)	Omura (Gumura)	All Villagers	RM	240	2560	614400	30720	614400	2nd Year	26.280622	91.086973
2		Omura (Gumura)	Omura (Gumura)	All Villagers	RM	240	2560	614400	30720	614400	3rd Year	26.281346	91.08543
3		Omura (Gumura)	Omura (Gumura)	All Villagers	RM	240	2560	614400	30720	614400	4th Year	26.276524	91.086827
<b>Sub Total</b>						<b>720</b>		<b>1843200</b>	<b>92160</b>	<b>1843200</b>			
1	Brick Canal	Panichilla	Panichilla	All Villagers	RM	400	2560	1024000	51200	1024000	2nd Year	26.340145	91.097543
2		Panichilla	Panichilla	All Villagers	RM	230	2560	588800	29440	588800	3rd Year	26.340246	91.097683
3		Kharua Para (Nagaon Kharuapara)	Kharua Para (Nagaon Kharuapara)	All Villagers	RM	280	2560	716800	35840	716800	1st Year	26.324391	91.074506
4		Kharua Para (Nagaon)	Kharua Para (Nagaon)	All Villagers	RM	280	2560	716800	35840	716800	2nd Year	26.327522	91.079675

1	2	3	4	5		6	7	8	9	10	11	12	13
Sl. No.	Name of the Activities (Structures)	Name of the Village	Name of the Hamlet	Name of Beneficiaries	Unit	Dimension ( in M/ Sq. M / CuM) of Structure	Unit Cost	Total Cost (in Rs.)	Contribution	Total Grant Amount (in Rs)	Year of Implementation (1st/2nd/3rd/4th/5th)	GPS Points	
												Long	Lat
		Kharuapara)	Kharuapara)										
5		Kharua Para (Nagaon Kharuapara)	Kharua Para (Nagaon Kharuapara)	All Villagers	RM	280	2560	716800	35840	716800	3rd Year	26.323638	91.076442
6		Tatikuchi	Tatikuchi	All Villagers	RM	200	2560	512000	25600	512000	3rd Year	26.324662	91.073996
7		Tatikuchi	Tatikuchi	All Villagers	RM	240	2560	614400	30720	614400	2nd Year	26.324148	91.073907
8		Tatikuchi	Tatikuchi	All Villagers	RM	240	2560	614400	30720	614400	1st Year	26.329858	91.071724
9		Radhakuchi	Radhakuchi	All Villagers	RM	240	2560	614400	30720	614400	1st Year	26.323522	91.087346
10		Radhakuchi	Radhakuchi	All Villagers	RM	320	2560	819200	40960	819200	2nd Year	26.323959	91.087426
11		Radhakuchi Habi	Radhakuchi Habi	All Villagers	RM	240	2560	614400	30720	614400	2nd Year	26.318649	91.108972
12		Radhakuchi Habi	Radhakuchi Habi	All Villagers	RM	250	2560	640000	32000	640000	1st Year	26.31758	91.11045
13		Radhakuchi Habi	Radhakuchi Habi	All Villagers	RM	290	2560	742400	37120	742400	2nd Year	26.316778	91.114517
14		Radhakuchi Habi	Radhakuchi Habi	All Villagers	RM	240	2560	614400	30720	614400	3rd Year	26.3202	91.107989

1	2	3	4	5		6	7	8	9	10	11	12	13
Sl. No.	Name of the Activities (Structures)	Name of the Village	Name of the Hamlet	Name of Beneficiaries	Unit	Dimension ( in M/ Sq. M / CuM) of Structure	Unit Cost	Total Cost (in Rs.)	Contribution	Total Grant Amount (in Rs)	Year of Implementation (1st/2nd/3rd/4th/5th)	GPS Points	
												Long	Lat
15		Jabrikuchi	Jabrikuchi	All Villagers	RM	240	2560	614400	30720	614400	1st Year	26.320185	91.075791
16		Jabrikuchi	Jabrikuchi	All Villagers	RM	240	2560	614400	30720	614400	3rd Year	26.319558	91.07669
17		Banbaria	Banbaria	All Villagers	RM	240	2560	614400	30720	614400	3rd Year	26.311332	91.092446
18		Bhella	Bhella	All Villagers	RM	240	2560	614400	30720	614400	1st Year	26.307516	91.07533
19		Bhella	Bhella	All Villagers	RM	240	2560	614400	30720	614400	2nd Year	26.307043	91.076037
20		Bhella	Bhella	All Villagers	RM	240	2560	614400	30720	614400	3rd Year	26.306949	91.075098
21		Bhella	Bhella	All Villagers	RM	240	2560	614400	30720	614400	2nd Year	26.306971	91.077272
22		Bhella	Bhella	All Villagers	RM	270	2560	691200	34560	691200	1st Year	26.309321	91.068253
23		Bhella	Bhella	All Villagers	RM	200	2560	512000	25600	512000	2nd Year	26.308865	91.068424
24		Bhella	Bhella	All Villagers	RM	200	2560	512000	25600	512000	3rd Year	26.309795	91.069566
25		Bhella	Bhella	All Villagers	RM	200	2560	512000	25600	512000	1st Year	26.305682	91.067789

1	2	3	4	5		6	7	8	9	10	11	12	13
Sl. No.	Name of the Activities (Structures)	Name of the Village	Name of the Hamlet	Name of Beneficiaries	Unit	Dimension ( in M/ Sq. M / CuM) of Structure	Unit Cost	Total Cost (in Rs.)	Contribution	Total Grant Amount (in Rs)	Year of Implementation (1st/2nd/3rd/4th/5th)	GPS Points	
												Long	Lat
26		Khankarpara	Khankarpara	All Villagers	RM	200	2560	512000	25600	512000	1st Year	26.298349	91.070641
27		Khankarpara	Khankarpara	All Villagers	RM	240	2560	614400	30720	614400	2nd Year	26.298371	91.067132
28		Khankarpara	Khankarpara	All Villagers	RM	200	2560	512000	25600	512000	2nd Year	26.298755	91.070307
29		Bara	Bara	All Villagers	RM	240	2560	614400	30720	614400	1st Year	26.307239	91.088593
30		Barbila	Barbila	All Villagers	RM	240	2560	614400	30720	614400	2nd Year	26.309491	91.09373
31		Barbila	Barbila	All Villagers	RM	240	2560	614400	30720	614400	1st Year	26.310183	91.092193
32		Batikuriha	Batikuriha	All Villagers	RM	200	2560	512000	25600	512000	2nd Year	26.289631	91.093858
33		Kaljahi	Kaljahi	All Villagers	RM	240	2560	614400	30720	614400	2nd Year	26.286505	91.089798
34		Kaljahi	Kaljahi	All Villagers	RM	240	2560	614400	30720	614400	1st Year	26.280942	91.089518
35		Kaljahi	Kaljahi	All Villagers	RM	240	2560	614400	30720	614400	2nd Year	26.29064	91.092697
36		Sila	Sila	All Villagers	RM	240	2560	614400	30720	614400	4th Year	26.281508	91.079073

1	2	3	4	5		6	7	8	9	10	11	12	13
Sl. No.	Name of the Activities (Structures)	Name of the Village	Name of the Hamlet	Name of Beneficiaries	Unit	Dimension ( in M/ Sq. M / CuM) of Structure	Unit Cost	Total Cost (in Rs.)	Contribution	Total Grant Amount (in Rs)	Year of Implementation (1st/2nd/3rd/4th/5th)	GPS Points	
												Long	Lat
37		Damal Jar	Damal Jar	All Villagers	RM	240	2560	614400	30720	614400	2nd Year	26.272887	91.072496
38		Damal Jar	Damal Jar	All Villagers	RM	200	2560	512000	25600	512000	3rd Year	26.272839	91.074984
39		Damal Jar	Damal Jar	All Villagers	RM	240	2560	614400	30720	614400	1st Year	26.271938	91.072683
40		Suha Bil Daloni (Sohabil Doloni)	Suha Bil Daloni (Sohabil Doloni)	All Villagers	RM	240	2560	614400	30720	614400	3rd Year	26.266273	91.07252
41		Suha Bil Daloni (Sohabil Doloni)	Suha Bil Daloni (Sohabil Doloni)	All Villagers	RM	250	2560	640000	32000	640000	4th Year	26.266273	91.07252
42		Dakreswar	Dakreswar	All Villagers	RM	240	2560	614400	30720	614400	2nd Year	26.253606	91.071593
43		Dakreswar	Dakreswar	All Villagers	RM	250	2560	640000	32000	640000	1st Year	26.25444	91.073659
44		Dakreswar	Dakreswar	All Villagers	RM	220	2560	563200	28160	563200	3rd Year	26.255178	91.072921
45		Bar Suha (Barsoha)	Bar Suha (Barsoha)	All Villagers	RM	220	2560	563200	28160	563200	1st Year	26.267367	91.081461
46		Belortari	Belortari	All Villagers	RM	240	2560	614400	30720	614400	2nd Year	26.249019	91.061193
47		Belortari	Belortari	All Villagers	RM	240	2560	614400	30720	614400	1st Year	26.2483392	91.060277



1	2	3	4	5		6	7	8	9	10	11	12	13
Sl. No.	Name of the Activities (Structures)	Name of the Village	Name of the Hamlet	Name of Beneficiaries	Unit	Dimension ( in M/ Sq. M / CuM) of Structure	Unit Cost	Total Cost (in Rs.)	Contribution	Total Grant Amount (in Rs)	Year of Implementation (1st/2nd/3rd/4th/5th)	Long	Lat
Sub Total						11380		29132800	1456640	29132800			
Total								40586650	2029333	40586650			

**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 Village	Name of the Hamlet	Name of Beneficiaries	Unit	Dimension ( in M/ Sq. M / CuM) of Structure	Unit Cost	Total Cost (in Rs.)	Contribution	Total Grant Amount (in Rs)	Year of Implementation (1st/2nd/3rd/4th/5th)	GPS Points	
												Long	Lat
1	DEVELOPMENT OF POND	Tatikuchi	Tatikuchi	-	Sqm	1500	233	349500	17475	349500	4th Year	26.32457	91.074203
2		Tatikuchi	Tatikuchi	-	Sqm	1700	233	396100	19805	396100	5th Year	26.329972	91.071281
3		Radhakuchi Habi	Radhaku chi Habi	-	Sqm	2200	233	512600	25630	512600	5th Year	26.322419	91.10754
4		Banbaria	Banbaria	-	Sqm	1700	233	396100	19805	396100	5th Year	26.319814	91.087591
5		Bara	Bara	-	Sqm	2600	233	605800	30290	605800	1st Year	26.301147	91.084029
6		Bara	Bara	-	Sqm	1600	233	372800	18640	372800	4th Year	26.301672	91.084647
7		Batikuriha	Batikuriha	-	Sqm	1700	233	396100	19805	396100	1st Year	26.289644	91.09404
8		Batikuriha	Batikuriha	-	Sqm	2150	233	500950	25048	500950	2nd Year	26.291667	91.103026
<b>Sub Total</b>						<b>15150</b>		<b>3529950</b>	<b>176497.5</b>	<b>3529950</b>			
1	Pond	Panichilla	Panichilla	Atab Ali, Burhan Ali, Hanif Ali, Dujjan Ali, Iman Ali, Sukur Ali, Kader Ali, Makbul Hussain, Abjaal Khan, Siddik Ali,	Sqm	2200	233	512600	25630	512600	1st Year	26.346894	91.09797

1	2	3	4	5		6	7	8	9	10	11	12	13
Sl. No.	Name of the Activities (Structures)	Name of the Village	Name of the Hamlet	Name of Beneficiaries	Unit	Dimension ( in M/ Sq. M / CuM) of Structure	Unit Cost	Total Cost (in Rs.)	Contribution	Total Grant Amount (in Rs)	Year of Implementation (1st/2nd/3rd/4th/5th)	GPS Points	
												Long	Lat
2		Radhakuchi Habi	Radhaku chi Habi	Manik Ali, Ghuggur Ali, Ambar Ali, Baron Ali, Hitmon Ali, Hatem Ali, Mehar Ali, Mantaj Ali, Ser Ali, Palan Ali,	Sqm	1700	233	396100	19805	396100	4th Year	26.318727	91.109091
3		Radhakuchi Habi	Radhaku chi Habi	Ajgar Ali, Billa Hussain, Hukum Ali, Hanif Ali, Akbar Ali, Rahman Ali, Aajhar Ali,	Sqm	2200	233	512600	25630	512600	3rd Year	26.318035	91.110529
4		Bhella	Bhella	Solim Ali, Majmil Ali, Fakrul Ali, Sahjahan Ali, Rahim Ali, Sabujan, Maftuddin, Fukar Ali, Manju Ali	Sqm	1700	233	396100	19805	396100	5th Year	26.30847	91.069591
5		Barbila	Barbila	All Villagers	Sqm	2400	233	559200	27960	559200	1st Year	26.30993	91.092865
6		Barbila	Barbila	All Villagers	Sqm	2200	233	512600	25630	512600	2nd Year	26.307592	91.090622

1	2	3	4	5		6	7	8	9	10	11	12	13
Sl. No.	Name of the Activities (Structures)	Name of the Village	Name of the Hamlet	Name of Beneficiaries	Unit	Dimension ( in M/ Sq. M / CuM) of Structure	Unit Cost	Total Cost (in Rs.)	Contribution	Total Grant Amount (in Rs)	Year of Implementation (1st/2nd/3rd/4th/5th)	GPS Points	
												Long	Lat
7		Batikuriha	Batikuriha	Bijoy Pathak, Dalim Talukdar, Ananta Pathak, Bhupesh Das, Bhabananda Das, Sankar Talukdar,	Sqm	1700	233	396100	19805	396100	1st Year	26.290396	91.101866
8		Suha Bil Daloni (Sohabil Doloni)	Suha Bil Daloni (Sohabil Doloni)	Kaddus Ali, Golap Khan, Jinar Khan, Nayeb Ali, Liyakat Khan, Mahur Uddin, Majibur Rahman, Kalam Sikdar, Usman Sikdar	Sqm	2200	233	512600	25630	512600	1st Year	26.268554	91.066479
9		Bar Suha (Barsoha)	Bar Suha (Barsoha)	All Villagers	Sqm	1950	233	454350	22718	454350	1st Year	26.267174	91.082645
<b>Sub Total</b>						<b>18250</b>		<b>4252250</b>	<b>212612.5</b>	<b>4252250</b>			
<b>Total</b>								<b>7782200</b>	<b>389110</b>	<b>7782200</b>			

**Table No. 5.2.3 Vegetative Covers**

1	2	3	4	5		6		7	8	9	10	11													
												Sl. No.	Name of the Activities	Name of the Village	Name of the Hamlet	Name of Beneficiaries	Unit	Area (in Hec)	Unit Cost	Total Cost (in Rs.)	Contribution	Total Grant Amount (in Rs)	Year of Implementation (1st/2nd/3rd/4th/5th)	GPS Points	
																								Long	Lat
1	Horticulture Plantation	Barbila	Barbila	Village Farmer	Hec	1.4484058	241500	349790	17489.5	349790	1st year	26.309785	91.092121												
2		Barbila	Barbila	Village Farmer	Hec	0.4885714	241500	117990	5899.50014	117990	2nd year	26.309785	91.092121												
3		Barbila	Barbila	Village Farmer	Hec	0.2562319	241500	61880	3094.00019	61880	3rd year	26.309785	91.092121												
4		Barbila	Barbila	Village Farmer	Hec	0.0684058	241500	16520	826.000035	16520	4th year	26.309785	91.092121												
5		Barbila	Barbila	Village Farmer	Hec	0.7365942	241500	177887	8894.37497	177887	5th year	26.309785	91.092121												
6		Khapan Baria Bhitha	Khapan Baria Bhitha	Village Farmer	Hec	1	241500	241500	12075	241500	3rd year	26.231987°	91.062887°												
7		Bar Baradi	Bar Baradi	Village Farmer	Hec	1	241500	241500	12075	241500	1st year	26.263702°	91.099376°												
8		Balapara	Balapara	Village Farmer	Hec	1	241500	241500	12075	241500	4th year	26.226803°	91.102611°												
9		Tarabari	Tarabari	Village Farmer	Hec	1	241500	241500	12075	241500	2nd year	26.229576°	91.124478°												
10		Tarabari	Tarabari	Village Farmer	Hec	1	241500	241500	12075	241500	5th year	26.254994°	91.116433°												

1	2	3	4	5		6		7	8	9	10	11	
Sl. No.	Name of the Activities	Name of the Village	Name of the Hamlet	Name of Beneficiaries	Unit	Area (in Hec)	Unit Cost	Total Cost (in Rs.)	Contribution	Total Grant Amount (in Rs)	Year of Implementation (1st/2nd/3rd/4th/5th)	GPS Points	
												Long	Lat
11		Guma (Goma)	Guma (Goma)	Village Farmer	Hec	0.53706	241500	129700	6484.9995	129700	1st year	26.256130°	91.110270°
12		Guma (Goma)	Guma (Goma)	Village Farmer	Hec	0.157763	241500	38099.8	1904.98823	38099.8	2nd year	26.256121°	91.110274°
13		Guma (Goma)	Guma (Goma)	Village Farmer	Hec	0.771842	241500	186400	9319.99215	186400	3rd year	26.256021°	91.111274°
14		Guma (Goma)	Guma (Goma)	Village Farmer	Hec	0.775	241500	187163	9358.125	187163	5th year	26.256025°	91.111279°
<b>Sub Total</b>						<b>10.23987</b>		<b>2E+06</b>	<b>123646.48</b>	<b>2472930</b>			
<b>Total</b>						<b>10.23987</b>	<b>0</b>	<b>2E+06</b>	<b>123646.48</b>	<b>2472930</b>			

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

1	2			3		4					
Sl. No.	Name of structures	Area (ha)	Farmers	Total units (No./cu.m./rmt)	UNIT COST (Rs)	Proposed plan Estimated cost* (Rs. in lakh)				Farmers contribution	Grant Portion
						M	W	O	T	(Rs. in lakh)	(Rs. in lakh)
A	PRIVATE LAND										
1	Agril Bund	389	All Villagers	14100	567	7.99	67.95	4.00	79.95	7.99	79.95
3	Agril Bund (with Hume Pipe)	50	All Villagers	1950	567	4.42	5.53	1.11	11.06	1.11	11.06
5	Agril Bund (with Slab Culvert)	23	All Villagers	900	567	0.51	4.34	0.26	5.10	0.51	5.10
7	Brick Canal (Slab Culvert)	83	All Villagers	720	2560	1.84	15.67	0.92	18.43	1.84	18.43
7	Brick Canal	1324	All Villagers	11380	2560	29.13	247.63	14.57	291.33	29.13	291.33
<b>Grand total (A+B)</b>					<b>6821</b>	<b>43.9</b>	<b>341.117</b>	<b>20.8462</b>	<b>405.87</b>	<b>40.5867</b>	<b>405.867</b>

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

### 5.3.2: Details of engineering structures for Water Harvesting WHS

1	2	3		4				
Sl. No.	Name of structures	Total units (No./ cu.m./ rmt)	UNIT COST (Rs)	Proposed plan				
				Estimated cost*				Farmers contribution
				(Rs. in lakh)				(Rs)
				M	W	O	T	
<b>A2</b>	<b>Common structures</b>							
2	DEVELOPMENT OF POND	15150	233	14.12	17.65	3.53	35.30	352995.00
3	Pond	18250	233	17.01	21.26	4.25	42.52	425225.00
<b>Grand total</b>				<b>31.13</b>	<b>38.91</b>	<b>7.78</b>	<b>77.82</b>	<b>778220.00</b>

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

1	2	3	4			
Sl. No.	Name of structure/ work	Area (ha)	Unit Cost(Rs)	Proposed plan		
				Estimated cost (Rs. in lakh)	Farmer Contribution (Rs. in lakh)	Grant (Rs. in lakh)
1	Horticulture Plantation	10.2399	241500	24.73	123646.48	24.73
<b>Grand total</b>				<b>24.73</b>	<b>123646.48</b>	<b>24.73</b>



## Chapter 6

### Capacity Building Plan (FINANCIAL)

**Table No. 6.1 Details of Capacity Building (Financial) (Rs. in Lakh)**

1	2	3	4	5	6	7	8	9	10
Sl. No.	Name of the Training & Exposure ( Knowledge, Skill, etc. at both Being and Doing level)	Number of events	Number of Participants in an event	Total Number of days per event	Total Trainee days (= 3 x 4 x 5)	Cost per Trainee day (in Rs)	Total Cost required for the programme (= 6 x 7 ; in Rs.)	Total Grant Amount (in Rs)	Year of Implementation (1st/2nd/3rd/4th/5th )
<b>Mass Meeting</b>									
1	MassMeeting	10	500	1	5000	25.96	129809	129809	1st, 3rd , 4th
<b>Subtotal</b>		<b>10</b>	<b>500</b>	<b>1</b>	<b>5000</b>	<b>25.96</b>	<b>129809</b>	<b>129809</b>	
<b>Awariness Meeting</b>									
1	Awariness Meeting	25	200	1	5000	51.92	259618	259618	1st, 2nd
<b>Subtotal</b>		<b>25</b>	<b>200</b>	<b>1</b>	<b>5000</b>	<b>51.92</b>	<b>259618</b>	<b>259618</b>	
<b>Publicity Materials</b>									
1	Publicity Materials	-	-	-	-	-	194713	194713	1st, 2nd
<b>Subtotal</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>194713.2</b>	<b>194713.2</b>	
<b>Institutional Building</b>									
1	WC Formation & Registration, etc.	-	-	-	-	-	97357	97357	1st, 2nd
2	UG Formation	-	-	-	-	-	97357	97357	2nd, 3rd, 4th, 5th
3	SHG Formation	-	-	-	-	-	97357	97357	2nd, 3rd, 4th, 5th
<b>Subtotal</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>292070</b>	<b>292070</b>	
<b>TRAINING</b>									
1	DWDU	2	60	1	120	1623	194713	194713	1st Year
2	PIA/WDT	7	20	2	280	1043	292070	292070	1st, 2nd , 3rd, 4th

1	2	3	4	5	6	7	8	9	10
Sl. No.	Name of the Training & Exposure ( Knowledge, Skill, etc. at both Being and Doing level)	Number of events	Number of Participants in an event	Total Number of days per event	Total Trainee days (= 3 x 4 x 5)	Cost per Trainee day (in Rs)	Total Cost required for the programme (= 6 x 7 ; in Rs.)	Total Grant Amount (in Rs)	Year of Implementation (1st/2nd/3rd/4th/5th)
3	Watershed Committee	10	11	2	220	1475	324522	324522	2nd, 3rd
4	User Group	12	20	2	480	642	308296	308296	2nd, 3rd, 4th, 5th
3	SHG	12	20	2	480	676	324522	324522	2nd, 3rd, 4th, 5th
<b>Subtotal</b>		<b>43</b>	<b>131</b>	<b>9</b>	<b>1580</b>	<b>5459</b>	<b>1444123</b>	<b>1444123</b>	
<b>EXPOSURE VISIT</b>									
1	Farmers/ WC Members	4	20	4	320	1268	405653	405653	2nd, 3rd, 4th, 5th
2	PIA/WDT	4	10	4	160	1420	227165	227165	2nd, 3rd, 4th, 5th
<b>Subtotal</b>		<b>8</b>	<b>30</b>	<b>8</b>	<b>480</b>	<b>2687</b>	<b>632818</b>	<b>632818</b>	
<b>PARTICIPATION IN EXHIBITION</b>									
1	SHG/UG	2	20	4	160	1217	194713	194713	2nd, 3rd, 4th, 5th
<b>Subtotal</b>		<b>2</b>	<b>20</b>	<b>4</b>	<b>160</b>	<b>1217</b>	<b>194713</b>	<b>194713</b>	
<b>SEMINER &amp; WORKSHOP</b>									
1	Seminer & Workshop	1	100	1	100	974	97357	97357	2nd Year, 4th Year
<b>Subtotal</b>		<b>1</b>	<b>100</b>	<b>1</b>	<b>100</b>	<b>974</b>	<b>97357</b>	<b>97357</b>	
<b>GRAND TOTAL</b>		<b>89</b>	<b>981</b>	<b>24</b>	<b>12320</b>	<b>10415</b>	<b>3245220</b>	<b>3245220</b>	

## Chapter 7

### Phasing of Programme and Budgeting

**Table No. 7.1: Phasing of the action plan**

1	2	3	4	5	6		7		8		9		10		11	
Sl.No	Component	Activities	Unit	Unit Cost	1 year		2 <sup>nd</sup> year		3 <sup>rd</sup> year		4 <sup>th</sup> year		5 <sup>th</sup> year		Total	
				(Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)
1	<b>Entry Point Activities (2%)</b>															
	a)	Waiting shed at Bhella	No.	500000	1	500000	0	0	0	0	0	0	0	0	1	500000
	b)	Waiting shed at Bar Suha (Barsoha)	No.	500000	1	500000	0	0	0	0	0	0	0	0	1	500000
	c)	Farmer Rest Shed at Damal Jar	No.	581740	1	581740	0	0	0	0	0	0	0	0	1	581740
	d)	Farmer Rest Shed at Bara	No.	581740	1	581740	0	0	0	0	0	0	0	0	1	581740
		<b>Sub Total of Entry Point Activity</b>			<b>4</b>	<b>2163480</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>2163480</b>	
2	<b>Institution &amp; Capacity Building (5%)</b>															
	i)	Poor HHs in Watersheds to be covered under SHGs														
		SC	No.	-	20	0	63	-	10	-	11	-	7	-	111	0
		ST	No.	-	3	0	3	-	0	-	0	-	3	-	9	0
		BC	No.	-	210	0	308	-	110	-	110	-	220	-	958	0

1	2	3	4	5	6		7		8		9		10		11	
Sl.No	Component	Activities	Unit	Unit Cost	1 year		2 <sup>nd</sup> year		3 <sup>rd</sup> year		4 <sup>th</sup> year		5 <sup>th</sup> year		Total	
				(Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)
		OC	No.	-	240	0	814	-	2740	-	2024	-	243	-	6061	0
	ii)	Awareness Generation (events) to be conducted														
		Pamphlets distribution	No.	1.50	21508	32262	4635	6952.5	0	0	0	0	0	0	26143	39214.5
		Wall posters	No.	5.00	12000	60000	1600	8000	0	0	0	0	0	0	13600	68000
		Wall writings/Flex Postering	No.	1250.00	56	70000	14	17500	0	0	0	0	0	0	70	87500
		Mass meetings	No.	10817.40	6	64904	3	32452	3	32452	0	0	0	0	12	129809
	iii)	Orientation programmes to GP, WC,UG, SHG,VO, VSS, WUA, Societies, Elected reps.	No.	9272.06	18.00	166897.03	4.00	37088.23	3.00	27816.17	3.00	27816.17	0.00	0.00	28.00	259617.60
	iv)	Formation of Ugs & SHG	No.	-	-	129808.8	-	32452.2	-	16226.1	-	16226.1	-	0	-	194713.2
		No. of women	No.	-	3930	0	2100	-	2100	-	2000	-	0	-	10130	0
		No. of men	No.	-	2530	0	1200	-	1200	-	1373	-	0	-	6303	0
	vi)	Formation of Watershed Committee	No.	20691.00	4	97356.6	0	0	0	0	0	0	0	0	4	97356.6
		No. of women	No.	-	4	0	-	-	-	-	-	-	-	-	4	0
		No. of men	No.	-	44	0	-	-	-	-	-	-	-	-	44	0
	vii)	Regular Meetings to be conducted				0										
		Watershed Committee	No.	-	12	0	12	-	12	-	12	-	12	-	60	0

1	2	3	4	5	6		7		8		9		10		11	
Sl.No	Component	Activities	Unit	Unit Cost	1 year		2 <sup>nd</sup> year		3 <sup>rd</sup> year		4 <sup>th</sup> year		5 <sup>th</sup> year		Total	
				(Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)
		UGs/LGs	No.	-	75	0	75		75		75		75		375	0
		VO/SHGs	No.		111	0	111		111		111		111		555	0
		Gram Panchayat	No.		12	0	12	-	12	-	12	-	12	-	60	0
	viii)	No. of Planning events	No.		12	0	12	-	12	-	12	-	12	-	60	0
	ix)	Registration of WC	No.		4	0	-	-	-	-	-	-	4		8	0
	x)	Self Monitoring events (planning, review of activities through tool)	No.		1	0	1	-	1	-	1	-	1	-	4	0
	xi)	Convergence meetings with LDs/other institutions	No.		1	0	1	-	1	-	1	-	1	-	4	0
	xii)	Social Audit events	No.		1	0	1	-	1	-	1	-	1	-	4	0
	xiii)	<b>Trainings &amp; Exposures</b>														
	a)	DWDU Level	No. Trgs	1081.74	120	129808.80	30	32452.20	30	32452.20	0	0	0	0	180	194713.2
		Women	No.	-	15	0.00	10	-	10	-	0	-	0	-	35	0
		Men	No.		105	0.00	20	-	20	-	0	-	0		145	0
	b)	On PIA Level	No. trgs	1043.11	186	194017.80	31	32336.30	31	32336.30	32	33379.41	0	0	280	292069.8
		Women	No.	-	65	0	10	-	10	-	-	-	-	-	85	0
		Men	No.	-	15	0	21	-	21	-	-	-	-	-	57	0

1	2	3	4	5	6		7		8		9		10		11	
Sl.No	Component	Activities	Unit	Unit Cost	1 year		2 <sup>nd</sup> year		3 <sup>rd</sup> year		4 <sup>th</sup> year		5 <sup>th</sup> year		Total	
				(Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)
	c)	On WC Level	No. trgs	901.45	252	227165.40	36	32452.20	36	32452.20	36	32452.2	0	0	360	324522
		Women	No.	-	40	0	6	-	6	-	6	-	0	-	58	0
		Men	No.	-	212	0	30	-	30	-	30	-	0	-	302	0
	c)	On Natural Resource Management	No. trgs	642.2831	253	162497.6306	76	48813.5175	101	64870.5956	25	16057.0781	25	16057.0781	480	308295.9
		Women	No.	-	53	0	20	-	30	-	5	-	5	-	113	0
		Men	No.	0	200	0	56	-	71	-	20	-	20	-	367	0
	d)	On Enterprise Promotion	No. trgs	676.0875	126	85187.025	38	25691.325	50	33804.375	13	8789.1375	13	8789.1375	240	162261
		Women	No.	-	100	0	30	-	40	-	10	-	10	-	190	0
		Men	No.	0	26	0	8	-	10	-	3	-	3	-	50	0
	e)	On Productivity Enhancement	No. trgs	676.0875	126	85187.025	38	25691.325	50	33804.375	13	8789.1375	13	8789.1375	240	162261
		Women	No.	-	100	0	30	-	40	-	10	-	10	-	190	0
		Men	No.	0	26	0	8	-	10	-	3	-	3	-	50	0
	f)	Exposure Visits Farmer & WC Member	Nos	4507.25	22	99159.5	23	103666.75	19	85637.75	10	45072.5	16	72116	90	405652.5
		Women	No.		5	0	5	-	7	-	5	-	6	-	28	0
		Men	No.		17	0	18	-	12	-	5	-	10	-	62	0
	(g)	Exposure Visits PIA & WDT	Nos	5048.12	0	0	10	50481.2	13	65625.56	10	50481.2	12	60577.44	45	227165.4
		Women	No.		-	0	3	-	3	-	3	-	4	-	13	0
		Men	No.		-	0	7	-	10	-	7	-	8	-	32	0
	(h)	Seminar & Workshop	Nos	973.566	33	32127.678	17	16550.622	17	16550.622	17	16550.622	16	15577.056	100	97356.6

1	2	3	4	5	6		7		8		9		10		11		
Sl.No	Component	Activities	Unit	Unit Cost	1 year		2 <sup>nd</sup> year		3 <sup>rd</sup> year		4 <sup>th</sup> year		5 <sup>th</sup> year		Total		
				(Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	
		Women	No.		-	0	3	-	3	-	3	-	4	-	13	0	
		Men	No.		-	0	7	-	10	-	7	-	8	-	32	0	
	(h)	Participation in Exhibition	Nos	1216.958	0	0	40	48678.3	53	64498.7475	14	17037.405	53	64498.7475	160	194713.2	
		Women	No.		-	0	3	-	3	-	3	-	4	-	13	0	
		Men	No.		-	0	7	-	10	-	7	-	8	-	32	0	
	<b>Sub Total IB &amp; CB {Do not sum Men &amp; Women under CB events (a to f)}[1]</b>					<b>0</b>	<b>1636379.68</b>		<b>551258.87</b>		<b>538527.2</b>		<b>272650.96</b>	<b>953</b>	<b>246404.6</b>	<b>68649</b>	<b>3245221.3</b>
3	<b>Productivity Enhancement - Production system &amp; Micro Enterprises (15%)</b>																
	a)	Assam Lemon Cultivation	NO	44000	3	132000	12	528000	26	1144000	14	616000	3	132000	58	2552000	
	b)	Bananna Cultivation	NO	44000	3	132000	10	440000	21	924000	20	880000	3	132000	57	2508000	
	c)	Fishery	NO	44000	0	0	14	616000	37	1628000	30	1320000	3	132000	84	3696000	
	d)	Papaya Cultivation (Red Lady)	NO	44000	15	660000	20	880000	13	572000	8	352000	3	132000	59	2596000	
	e)	Som & Sualo Plantation	NO	44000	1	44000	8	352000	31	1364000	18	792000	1	44000	59	2596000	
	f)	Apple Bear Cultivation	NO	44000	3	132000	10	440000	19	836000	14	616000	5	220000	51	2244000	
	g)	Vermi Composting	NO	34100	0	0	0	0	1	34100	0	0	0	0	1	34100	
	<b>Sub-Total PE</b>					<b>22</b>	<b>968000</b>	<b>74</b>	<b>3256000</b>	<b>148</b>	<b>6502100</b>	<b>104</b>	<b>4576000</b>	<b>18</b>	<b>792000</b>	<b>369</b>	<b>16226100</b>
4	<b>Enterprise Promotion - Livelihood Activities for Assetless Poor (15%)</b>																
	a)	broiler Farm	NO	25000	19	475000	24	600000	80	2000000	30	750000	18	450000	171	4275000	
	b)	Duckery	NO	25000	10	250000	29	725000	34	850000	80	2000000	19	475000	172	4300000	
	c)	Goatery	NO	25000	6	150000	37	925000	72	1800000	47	1175000	0	0	162	4050000	

1	2	3	4	5	6		7		8		9		10		11	
Sl.No	Component	Activities	Unit	Unit Cost	1 year		2 <sup>nd</sup> year		3 <sup>rd</sup> year		4 <sup>th</sup> year		5 <sup>th</sup> year		Total	
				(Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)
	d)	Poultry	NO	25000	8	200000	18	450000	73	1825000	38	950000	6	150000	143	3575000
	e)	Supari Making	NO	26100	0	0	0	0	1	26100	0	0	0	0	1	26100
	<b>Sub-Total LA</b>				<b>43</b>	<b>1075000</b>	<b>108</b>	<b>2700000</b>	<b>260</b>	<b>6501100</b>	<b>195</b>	<b>4875000</b>	<b>43</b>	<b>1075000</b>	<b>649</b>	<b>16226100</b>
5	<b>Natural Resource Management (47%)</b>															
	<b>I</b>	<b>WHS (MI Works)</b>														
	a)	Pond	Sqm	233	10450	2434850	2200	512600	2200	512600	1700	396100	1700	396100	18250	4252250
	b)	Development of Pond	Sqm	233	4300	1001900	2150	500950	0	0	3100	722300	5600	1304800	15150	3529950
	<b>II</b>	<b>Soil Moisture Conservation (SMC)</b>														
	a)	Agril Bund	RM	567	4100	2324700	5450	3090150	3850	2182950	0	0	700	396900	14100	7994700
	b)	Agril Bund (hume pipe)	RM	567	900	510300	1050	595350	0	0	0	0	0	0	1950	1105650
	c)	Agril Bund (with Slab Culvert)	RM	567	900	510300	0	0	0	0	0	0	0	0	900	510300
	d)	Brick Canal (Slab Culvert)	RM	2560	0	0	240	614400	240	614400	240	614400	0	0	720	1843200
	e)	Brick Canal	RM	2560	3830	9804800	4530	11596800	2530	6476800	490	1254400	0	0	0	29132800
	<b>III</b>	<b>Vegetative Covers</b>														
a)	Horticulture Plantation	Hec	241500	2.985466	720989.9907	1.6463344	397589.767	2.028074	489779.847	1.068406	258020.001	2.511594	606549.999	10.239874	2472930	
	<b>Sub Total NRM:</b>				<b>24483</b>	<b>17307840</b>	<b>15622</b>	<b>17307840</b>	<b>8822</b>	<b>10276530</b>	<b>5531</b>	<b>3245220</b>	<b>8003</b>	<b>2704350</b>	<b>51080</b>	<b>50841780</b>
6	<b>Natural Resource Management Governance (2%)</b>															
	<b>I</b>	<b>Maintenance of Natural Resources Related Assets</b>														



1	2	3	4	5	6		7		8		9		10		11	
Sl.No	Component	Activities	Unit	Unit Cost	1 year		2 <sup>nd</sup> year		3 <sup>rd</sup> year		4 <sup>th</sup> year		5 <sup>th</sup> year		Total	
				(Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)
	a)	Meeting with the members of Gram Panchayat alongwith PRI members	No.	5000	8	40000	8	40000	8	40000	8	40000	0	0	32	160000
	b)	Preparation of over all Project Development Plan	No.	5000	3	15000	3	15000	3	15000	3	15000	0	0	12	60000
	c)	Meeting for Annual Audit under Budgeting with GP and PRI members	No.	5000	-	-	6	30000	6	30000	6	30000	0	0	18	90000
	<b>II</b>	<b># Water Budgeting, Management/ Regulatory Norms and Governance</b>														
	a)	Ground Water Monitoring (twice a year)	No.	10000	16	160000	16	160000	15	150000	15	150000	-	-	62	620000
	b)	Training for the Monitoring Exercises	No.	16000	5	80000	5	80000	5	80000	5	80000	-	-	20	320000
	<b>III</b>	<b>Protection and Regulation/ Regeneration of Common Lands (For the protection of the upper reaches of the</b>														

1	2	3	4	5	6		7		8		9		10		11	
Sl.No	Component	Activities	Unit	Unit Cost	1 year		2 <sup>nd</sup> year		3 <sup>rd</sup> year		4 <sup>th</sup> year		5 <sup>th</sup> year		Total	
				(Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)
		watershed slopes)														
	a)	Meeting with Departmental Officers & staff of Forest, Agriculture, Veterinary etc. for protection & regeneration/ regulation in upper reaches of	No.	5000	16	80000	16	80000	21	105000	21	105000	-	-	74	370000
	b)	Formation of User's Group & Mobility	No.	3000	40	120000	30	90000	25	75000	25	75000	-	-	120	360000
	c)	Formation of VouluntaryOrg anization & Mobility	No.	2548	18	45870	18	45870	18	45870	18	45870	-	-	72	183480
		<b>Sub Total NRM:</b>			<b>106</b>	<b>540870</b>	<b>102</b>	<b>540870</b>	<b>101</b>	<b>540870</b>	<b>101</b>	<b>540870</b>	<b>0</b>	<b>0</b>	<b>410</b>	<b>2163480</b>
7	<b>Administration (10%)</b>															
	a)	WCDC Level	-	-	-	50000	-	50000	-	50000	-	50000	-	50000	-	250000
	b)	PIA / WDT Level.	-	-	-		-		-		-		-		-	
		1)Honorarium/ Specialist/wages to	-	-	-	338480	-	338480	-	338480	-	338480	-	338480	-	1692400

1	2	3	4	5	6		7		8		9		10		11	
Sl.No	Component	Activities	Unit	Unit Cost	1 year		2 <sup>nd</sup> year		3 <sup>rd</sup> year		4 <sup>th</sup> year		5 <sup>th</sup> year		Total	
				(Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)
		temporary PIA staff														
		2) T.A/D.A.	-	-	-	280000	-	280000	-	280000	-	280000	-	280000	-	1400000
		3) Office contingencies.	-	-	-	250000	-	250000	-	250000	-	250000	-	250000	-	1250000
	c)	WC / Village Level	-	-	-		-		-		-		-		-	
		1) Honorarium to village level	-	-	-	275000	-	275000	-	275000	-	275000	-	275000	-	1375000
		Workers	-	-	-	260000	-	260000	-	260000	-	260000	-	260000	-	1300000
		2) Honorarium/Salary to Secy.	-	-	-	310000	-	310000	-	310000	-	310000	-	310000	-	1550000
		3) Office contingencies.	-	-	-	200000	-	200000	-	200000	-	200000	-	200000	-	1000000
		4) T.A/D.A.	-	-	-	200000	-	200000	-	200000	-	200000	-	200000	-	1000000
		<b>Sub Total Administration:</b>				<b>2163480</b>	<b>0</b>	<b>2163480</b>	<b>0</b>	<b>2163480</b>	<b>0</b>	<b>2163480</b>	<b>0</b>	<b>2163480</b>		<b>10817400</b>
8		<b>Monitoring and Evaluation Cost (2%)</b>														
	a)	Monitoring and Evaluation	Rs.			-	-	540870	-	540870	-	540870	-	540870	-	2163480
		<b>Sub Total of Monitoring and Evaluation:</b>						<b>540870</b>		<b>540870</b>		<b>540870</b>		<b>540870</b>		<b>2163480</b>
9		<b>DPR (1%)</b>														
	a)	DPR Preparation	Rs.			-	-	1081740	-	-	-	-	-	-	-	1081740
		<b>Sub Total of DPR</b>				<b>1081740</b>										<b>1081740</b>
10		<b>Consolidation (3%)</b>														

1	2	3	4	5	6		7		8		9		10		11	
Sl.No	Component	Activities	Unit	Unit Cost	1 year		2 <sup>nd</sup> year		3 <sup>rd</sup> year		4 <sup>th</sup> year		5 <sup>th</sup> year		Total	
				(Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)
	a)	Consolidation	Rs.	-	-	-	-	-	-	-	-	-	-	3245220	-	3245220
		<b>Sub Total of Consolidation</b>												3245220		3245220
		<b>Grand Total</b>				26936790		27060319		27063477		16214091		10767325		10817400 1

**Table No. 7.2 Estimated Benefit Cost Ratio**

<b>S.No.</b>	<b>Name of the activity</b>	<b>Total Cost (Rs.)</b>	<b>Total Benefit expected * (Rs.)</b>	<b>BCR</b>	<b>Remarks</b>
1	EPA	2163000	2379300	1.1	
2	NRM	50841780	74228999	1.46	
3	Prpductivity Enhancement	16226100	27584370	1.7	
4	Livelihood for Asset less	16226100	29206980	1.8	
5	Institution and Capacity building	3245221	3894266	1.2	
6	Overall	88702201	137293914	1.55	

**\*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**

Component	Fund Allocation by Year (Rs. In Lakh)					Total in Rs. In Lakh
	Phase -I: Preparatory	Phase- II: Work			Phase-III Consolidation	
	1st Year	2nd Year	3rd Year	4th Year	5th Year	
Administrative	21.63	21.63	21.63	21.63	21.63	<b>108.17</b>
Monitoring	0.00	5.41	5.41	5.41	5.41	<b>21.63</b>
Entry point Activities	21.63	0.00	0.00	0.00	0.00	<b>21.63</b>
Institution & Capacity building	16.23	5.41	5.41	2.70	2.70	<b>32.45</b>
DPR	10.82	0.00	0.00	0.00	0.00	<b>10.82</b>
Natural Resource Management	173.08	173.08	102.77	32.45	27.04	<b>508.42</b>
Production System	10.82	32.45	64.90	45.97	8.11	<b>162.26</b>
Natural Resource Management & Governance	5.41	5.41	5.41	5.41	0.00	<b>21.63</b>
Livelihood Activities for the assetless persons Micro Enterprise & Business Development	10.82	27.04	64.90	48.68	10.82	<b>162.26</b>
Consolidation	0.00	0.00	0.00	0.00	32.45	<b>32.45</b>
<b>TOTAL</b>	<b>270.44</b>	<b>270.44</b>	<b>270.44</b>	<b>162.26</b>	<b>108.17</b>	<b>1081.74</b>

## CHAPTER - 9

### 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	3	2.5	
2	Ground water structures repaired/ rejuvenated	No.	NA	NA	
3	Quality of drinking water	Description	Iron content high	Low Iron content	
4	Availability of drinking water	Description	There is a shortfall of 28831 Ltr/Day	All HH will be connected pipe water system under JJM	
5	Increase in irrigation potential	Hec.	-	1200	
6	Change in cropping/ land use pattern	Description			
7	Area under agricultural crop	Hec.			
	I Area under single crop	Hec.	4121	4121	
	ii Area under double crop	Hec.	206	3260	
	iii Area under multiple crop	Hec.	0	305	
8	Net increase in crop production area	Hec.	-	-	
9	Increase in area under Vegetation/Forest	Hec.	-	-	
10	Increase in area under horticulture	Hec.		-	
11	Increase in area under fuel	Hec.		-	
12	Increase in area under Fodder	Hec.		-	
13	Increase in milk production	Litres/day		250	
14	Environmental Impact Change in Soil Loss Perenniality of flow and change in Run-off Recharge of ground water	Ton/Ha/Year	0.5	0.3	
14	No. of SHGs Promoted	No.	105	1018	
15	Increase in no. of livelihoods	No.	-	649	
16	Increase in income	Rs.	Average income 1,57,500/-	Average 2,25000/-	
17	Status of Migration	No.	981	102	
18	SHG Federations formed	No.	-	2-	
19	Credit linkage with banks	Rs.	Nil	50,00,000	
20	Resource use agreements		Nil	Will be made	
21	WDF collection & management	Rs.	-	<b>Rs. 50,841,77/-</b>	
22	Summary of lessons learnt	The ground water level in the ridge area is almost more			

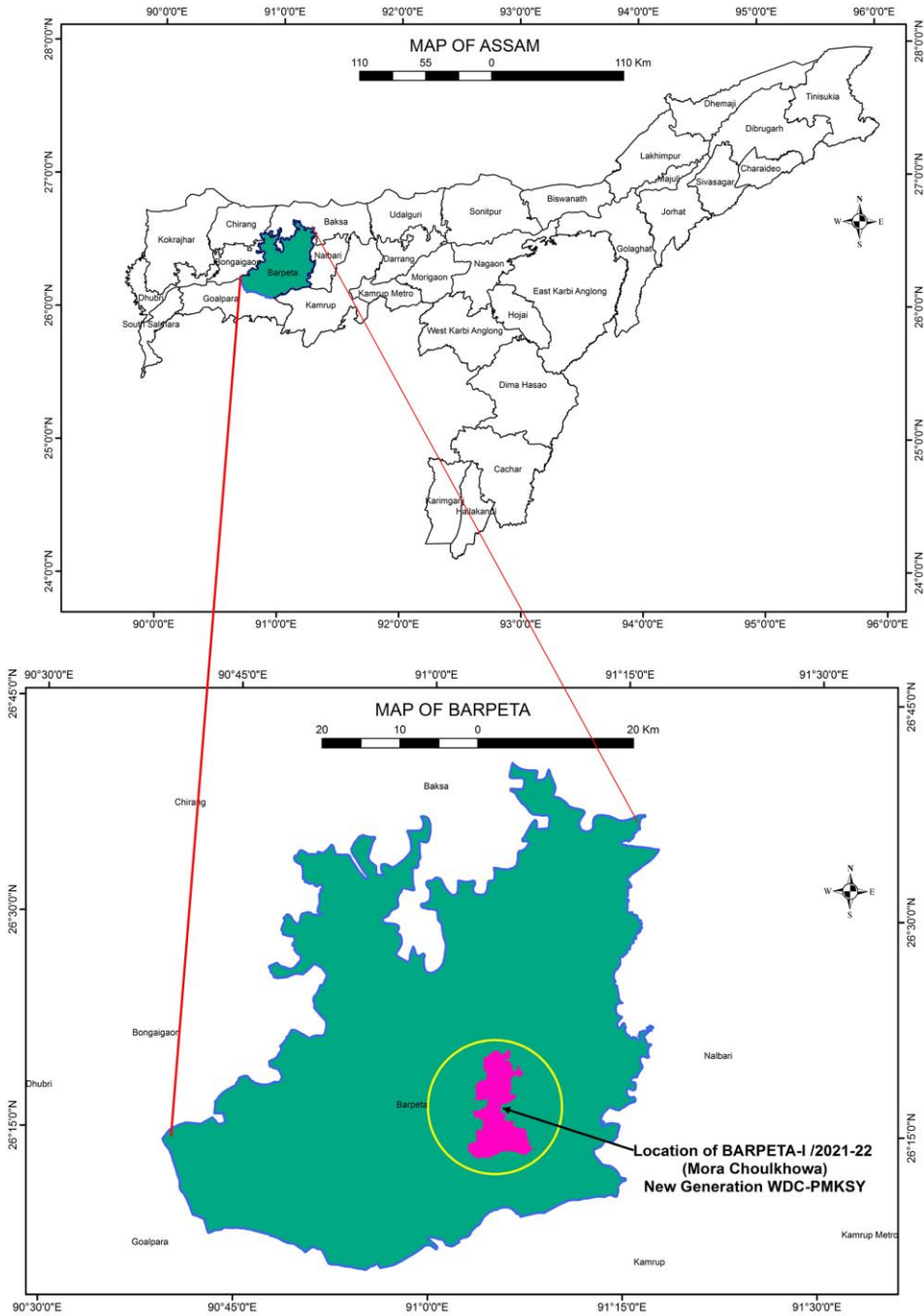
		than 3 mtr which can be reduce to average 2 mtr. Almost 94 numbers of new intervention proposed under water harvesting which will developed the ground water status as well as irrigated area of the watershed. Almost 369 numbers of unit of various horticulture crop for organic farming are proposed under Production System which will developed the watershed area as a organic hub of the district.
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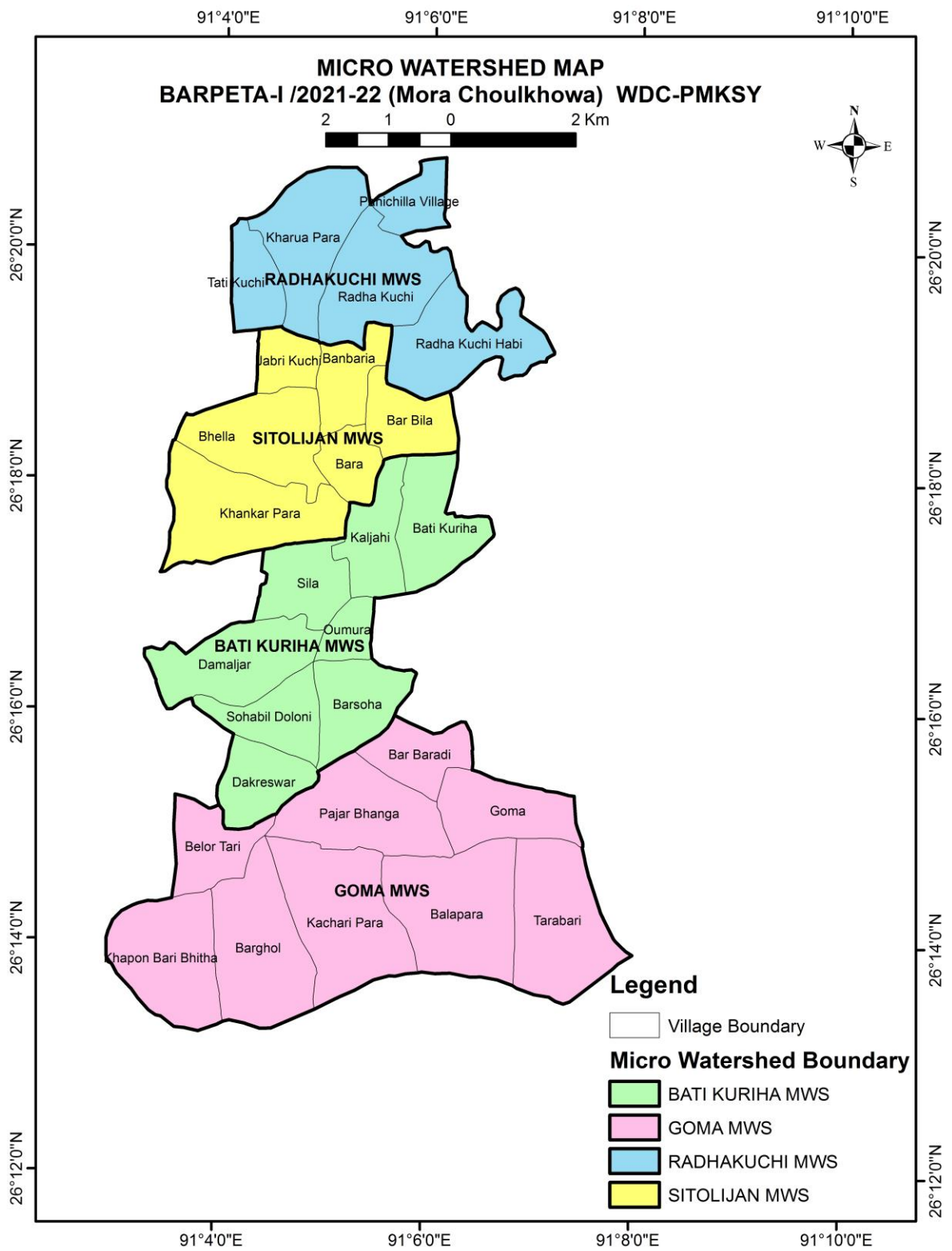


**Table No.9.3: Backward and Forward Linkages**

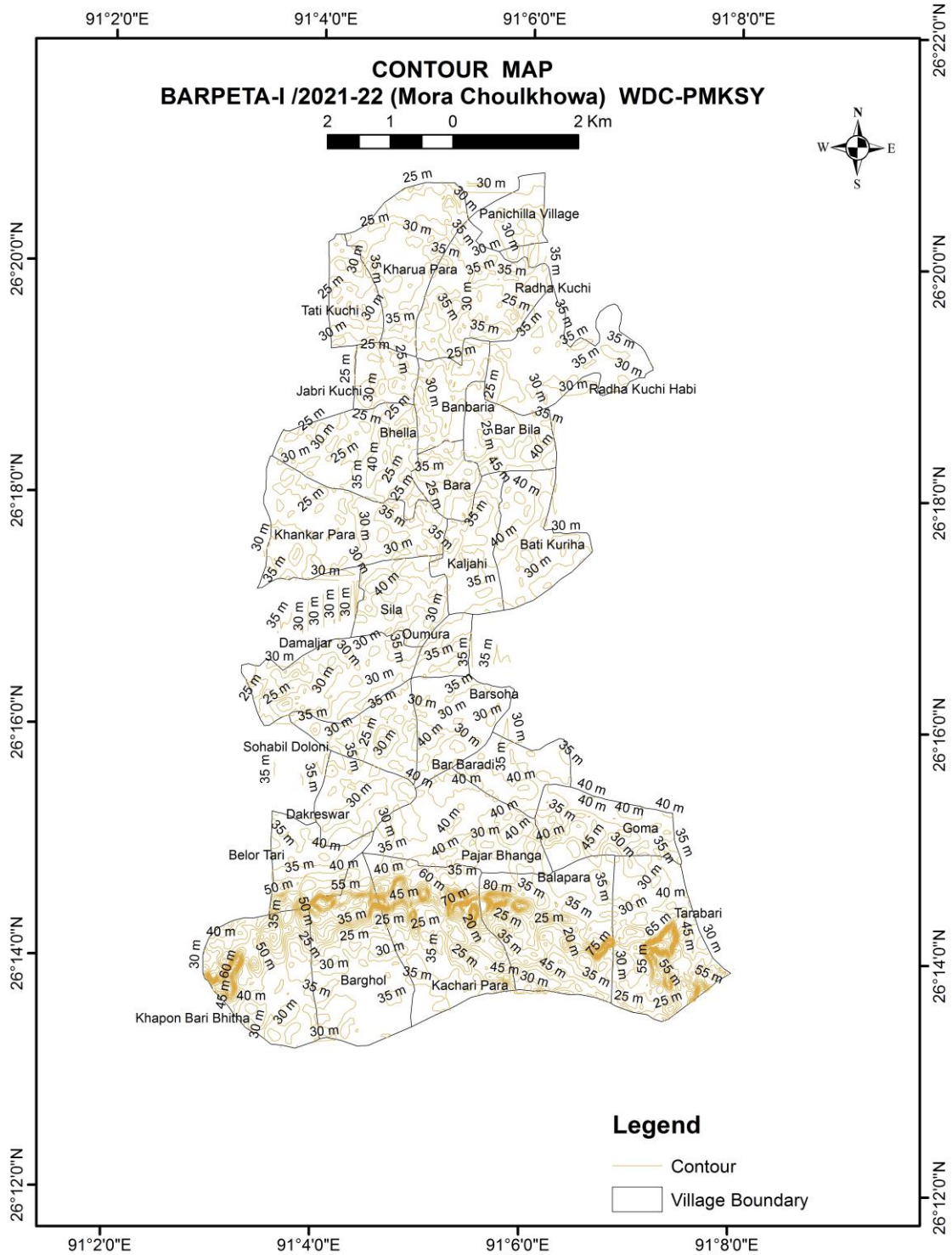
Type of Marketing Facility	Name of the institution	Pre-project (no.)	Expected post project status
<b>(A) Backward linkages</b>			
(i) Seed certification	Govt. of Assam	No	Will be done
(ii) Seed supply system	Co-operative and Agriculture Dept.	No	Strong Seed supply system will be developed
(iii) Fertilizer supply system	Co-operative and local fertilizer dealer	No	Strong Fertilizer supply system will be developed
(iv) Pesticide supply system	Local Pesticide Dealer	No	Strong Pesticide supply system will be developed
(v) Credit institutions	Co-operative Bank, SHG, Local Bank, Nodal Bank etc.	SHG	Internal Credit link will be developed among SHG, Local Bank, Co-operative Bank etc. and external credit link from commercial / nodal banks.
(vi) Water supply	Water User Group	No	Will be developed
(vii) Extension services	KVK, ATMA, Agriculture Dept., NGOs	ATMA, Agri Dept., NGO	Strong extension services will be developed among all institutions
(viii) Nurseries	SHG, Horticulture Nursery, Local Nursery	Local Nursery	Strong extension services will be developed among all institutions
(ix) Tools/machinery suppliers	Ag Deptt	Ag Deptt	Will Continued
(x) Price Support system	Ag Deptt, Vetty Dept.	Ag Deptt	Will Continued
(xi) Labour	Local wage labour	Local wage labour	Strong network will be developed
<b>(B) Forward linkages</b>			Strong network will be developed
(i) Harvesting/threshing machinery	Local level	Local level	Strong network will be developed
(ii) Storage (including cold storage)	Local level	Local level	Strong network will be developed
(iii) Road network	Local level	Local level	Strong network develop
(iv) Transport facilities	Local level	Local level	Strong network develop
(v) Markets / Mandis	Local committee, Cooperative	No	Institution will take initiative so that beneficiaries will get better opportunities.
(vi) Agro and other Industries	Local committee, Cooperative	No	Institution will take initiative so that beneficiaries will get better opportunities.
(vii) Milk and other collection centres	Local committee, Cooperative	No	Institution will take initiative so that beneficiaries will get better opportunities.

# Location Map BARPETA-I /2021-22 (Mora Choulkhowa) New Generation WDC-PMKSY

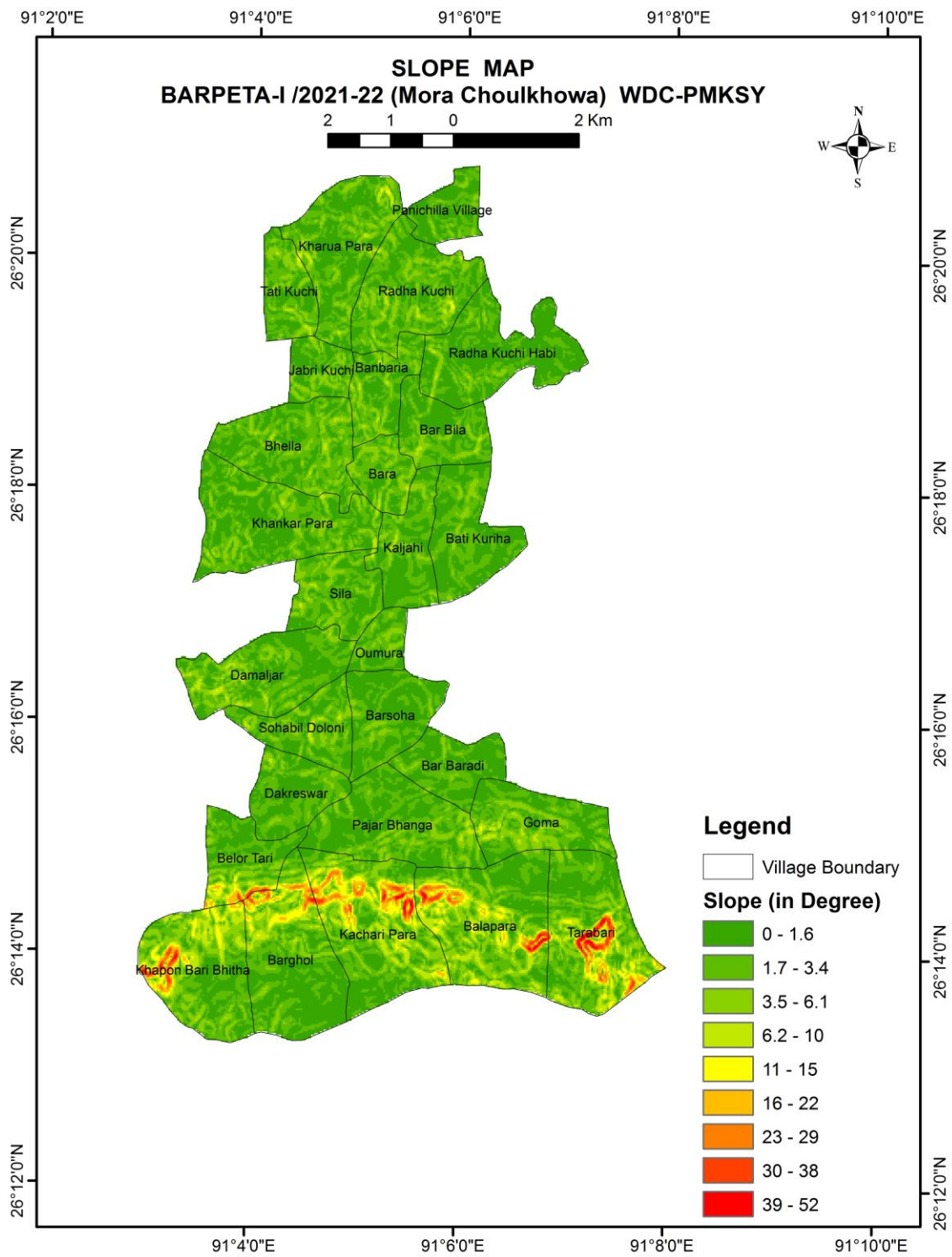




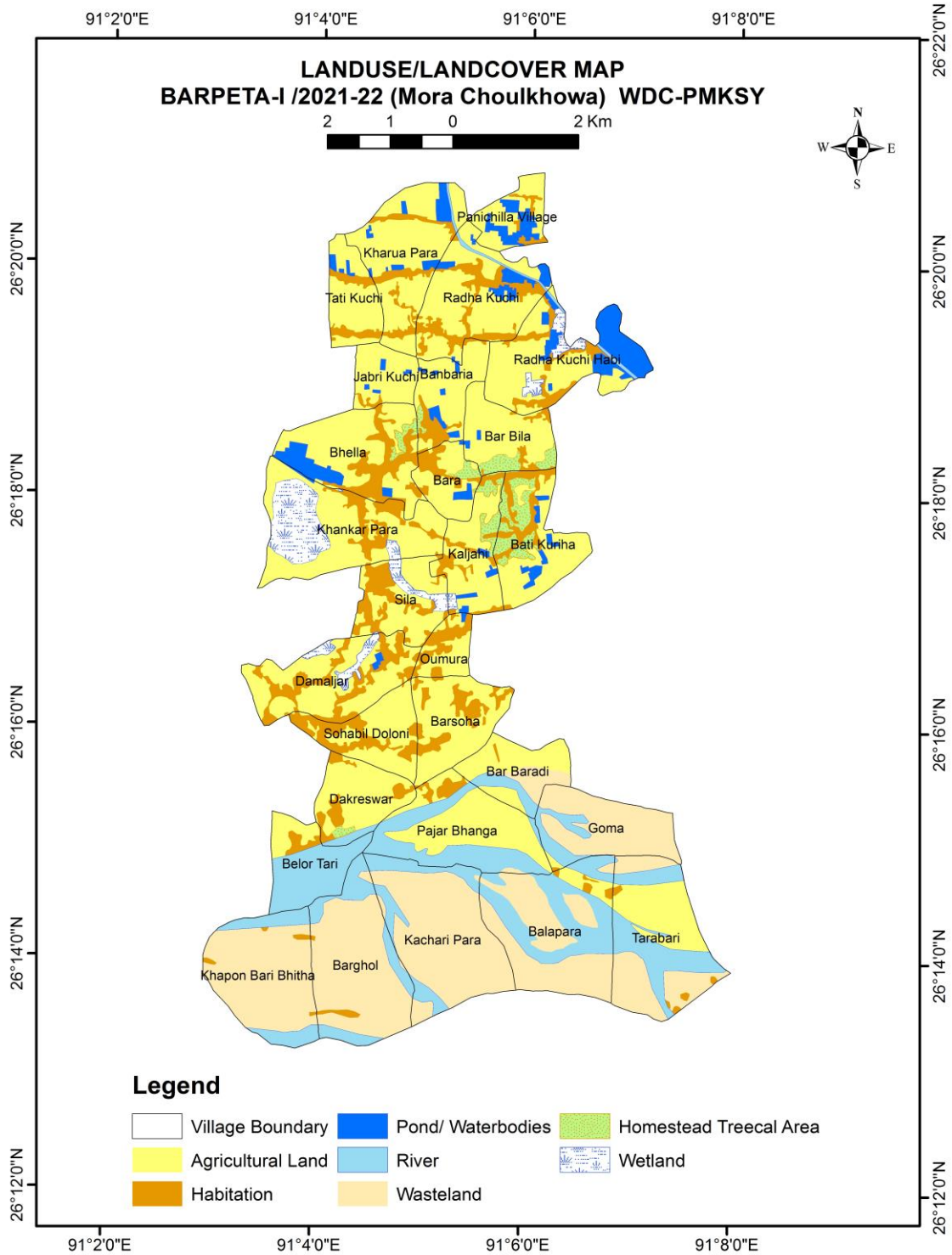
Source: Village Boundary, Census of India



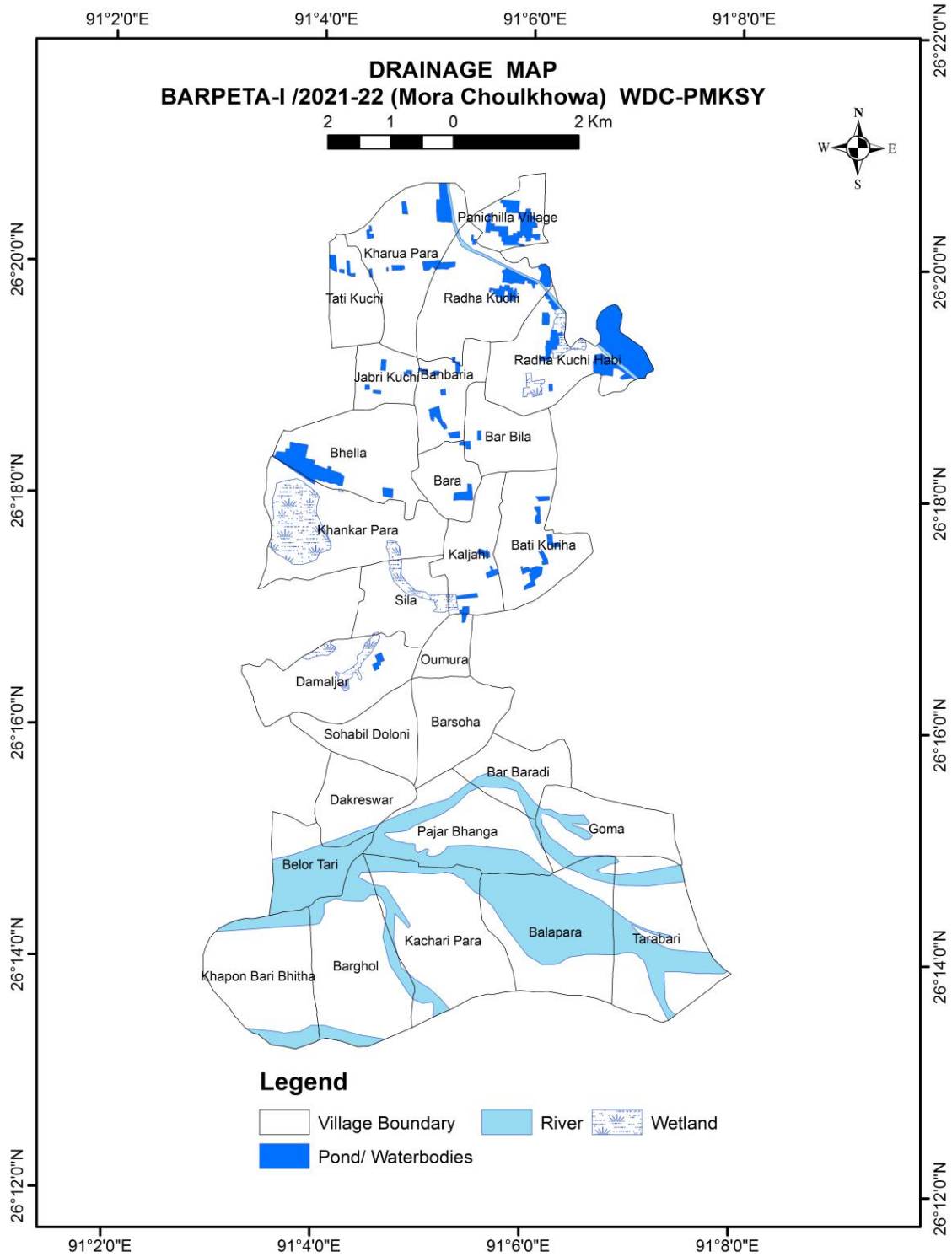
Source: Generated from DEM (Cartosat-1, Carto DEM Ver 3-R1)



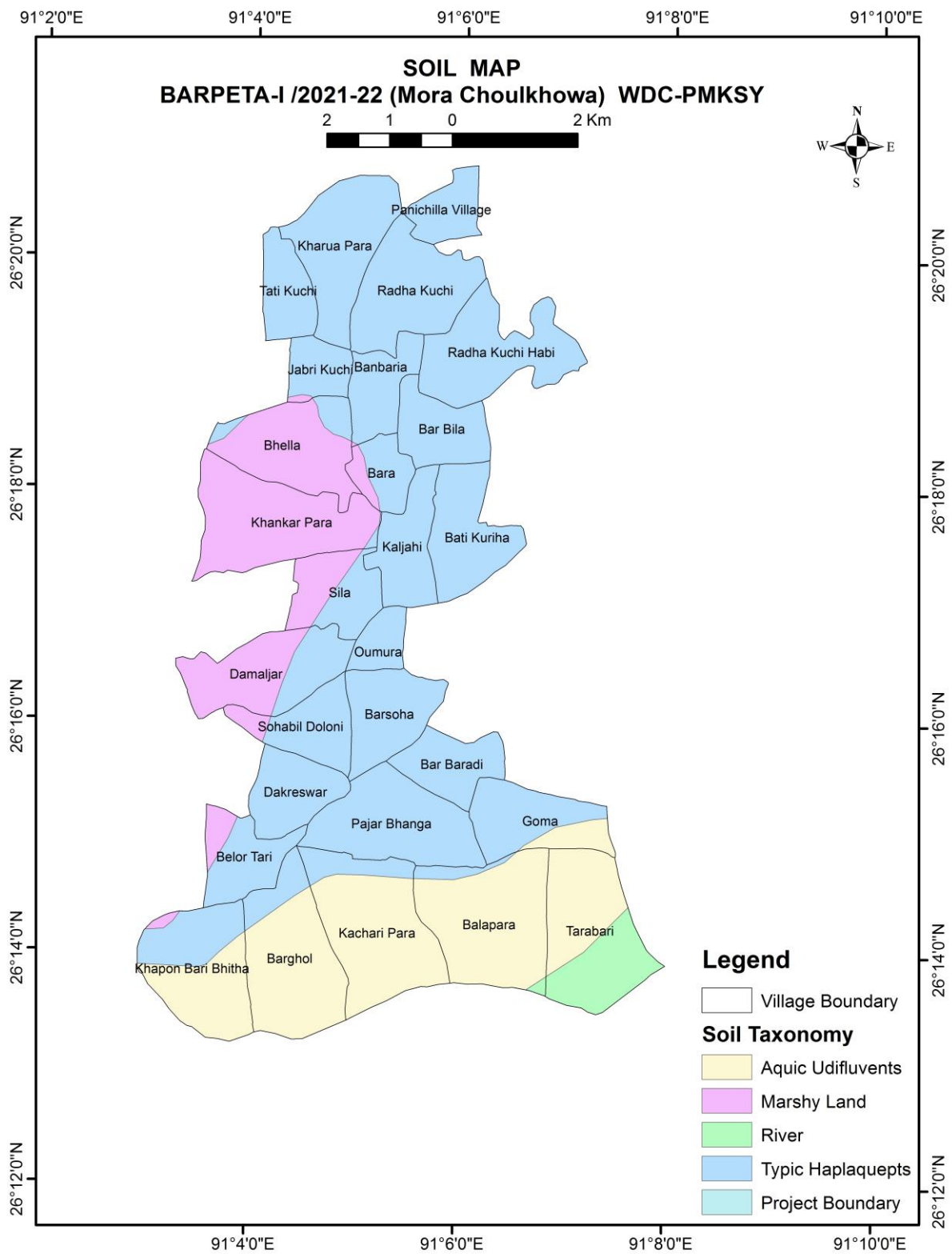
Source: Created from DEM (Cartosat-1, Carto DEM Ver 3-R1)



Source: Resourcesat-2:Liss-III (Dec, 2019), Landset data

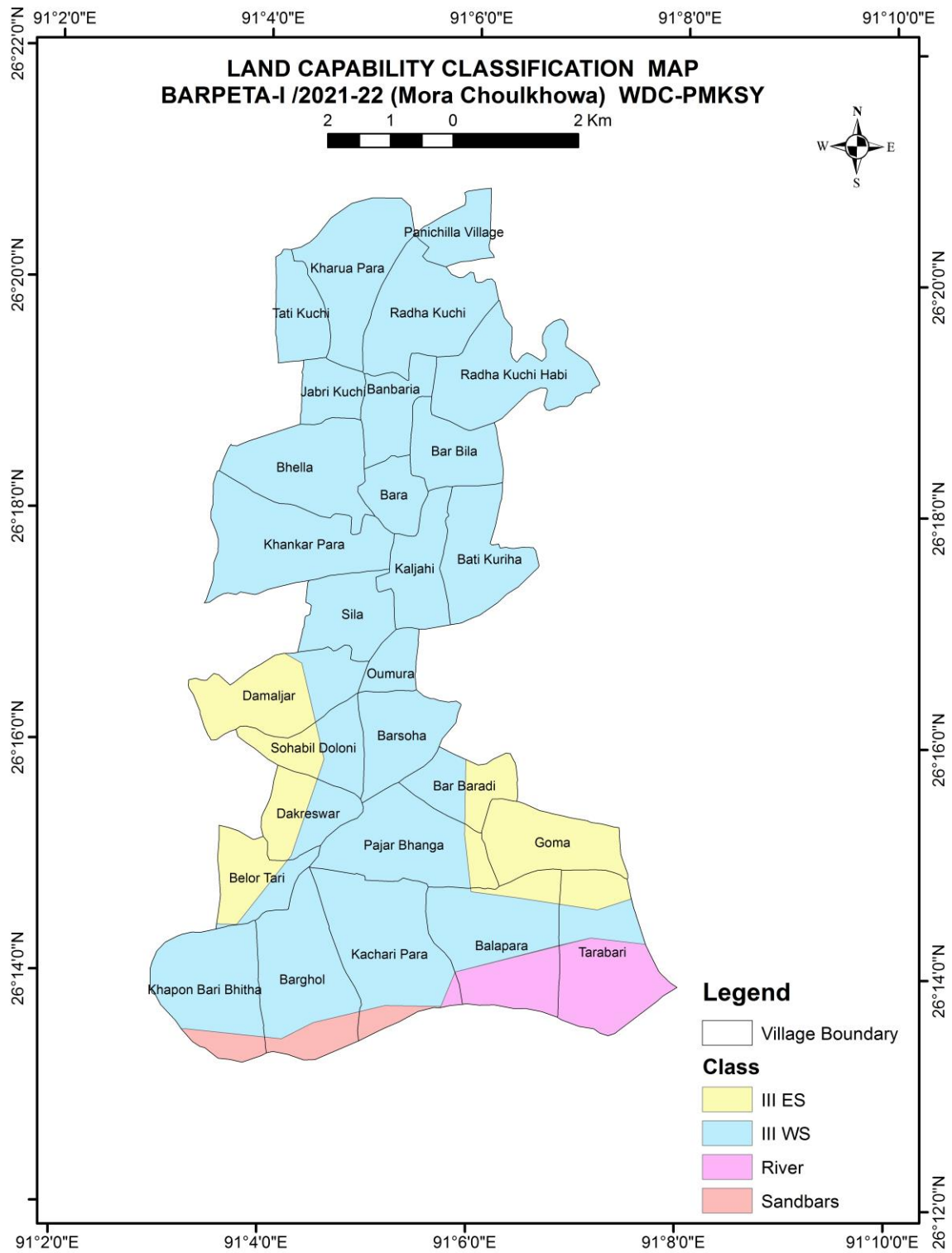


Source: Resourceset-2:Liss-III (Dec, 2019) & Toposheet

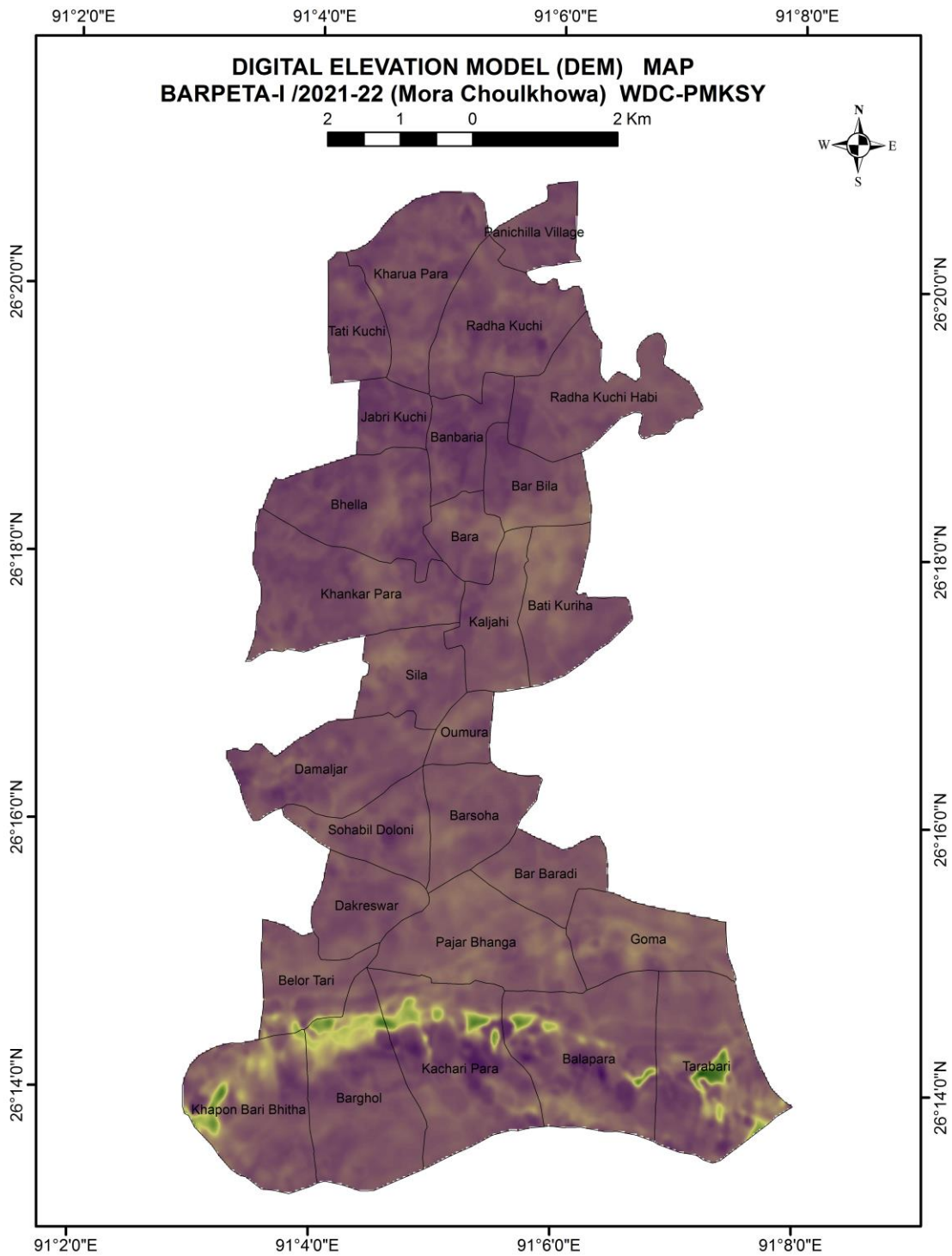


Source: NBSS, Publ-66

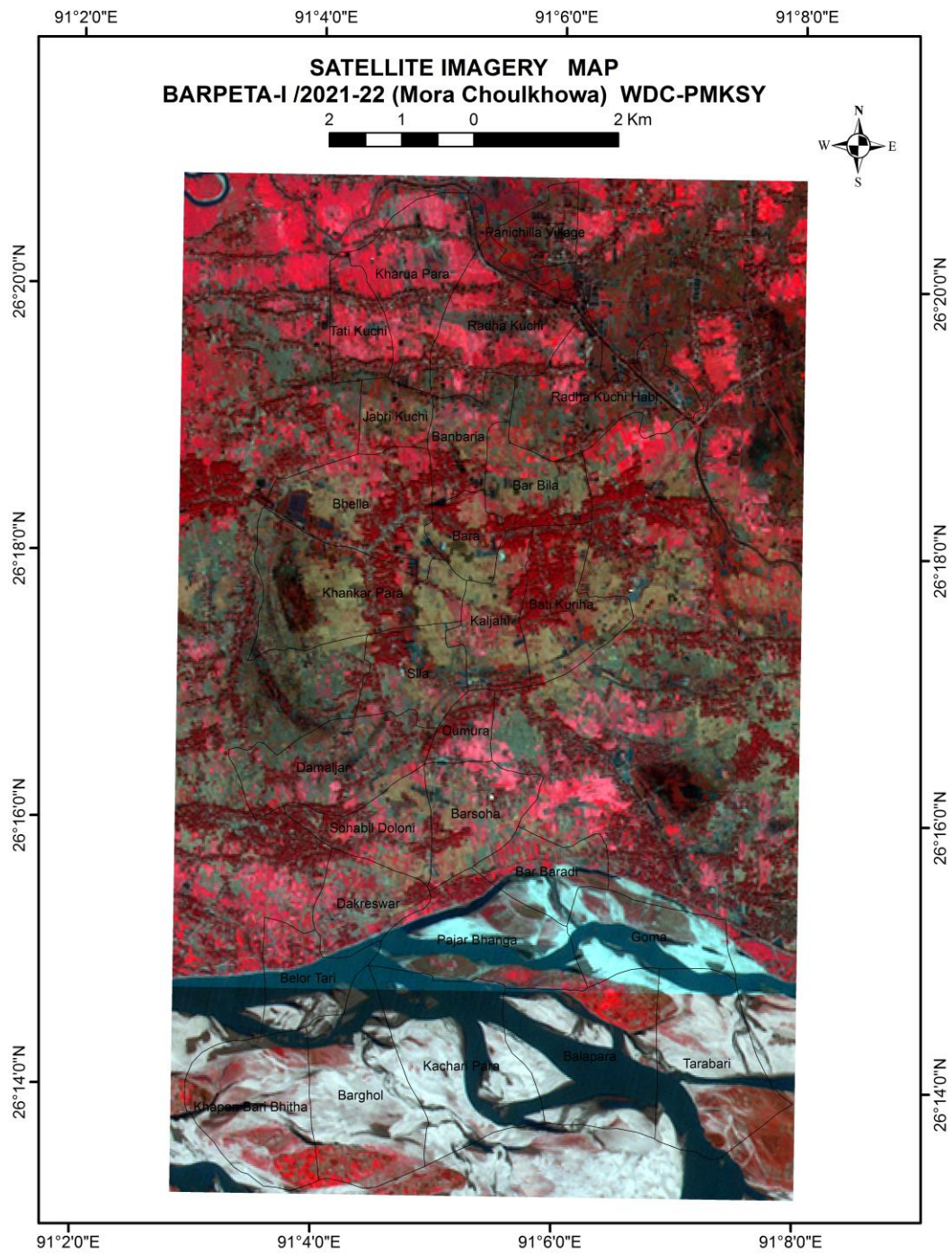




Source: NBSS,



Source: Created from DEM (Cartosat-1, Carto DEM Ver 3-R1)



Source: Resourceset-2:Liss-III (Dec, 2019)



## Appendix-1

### Village Wise Intervention under NRM

Name of Micro Watershed		Radhakuchi MWS													
Name of Village		Panichilla													
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		5th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Pond	Sqm	233	2200	5.13	2200	5.13	0	0.00	0	0.00	0	0.00	0	0.00	
Brick Canal	RM	2560	400	10.24	0	0.00	400	10.24	0	0.00	0	0.00	0	0.00	
Brick Canal	RM	2560	230	5.89	0	0.00	0	0.00	230	5.89	0	0.00	0	0.00	
Name of Micro Watershed		Radhakuchi MWS													
Name of Village		Kharua Para (Nagaon Kharuapara)													
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		5th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Brick Canal	RM	2560	280	7.17	280	7.17	0	0.00	0	0.00	0	0.00	0	0.00	
Brick Canal	RM	2560	280	7.17	0	0.00	280	7.17	0	0.00	0	0.00	0	0.00	
Brick Canal	RM	2560	280	7.17	0	0.00	0	0.00	280	7.17	0	0.00	0	0.00	
Name of Micro Watershed		Radhakuchi MWS													
Name of Village		Tatikuchi													
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		5th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
DEVELOPMENT OF POND	Sqm	233	1500	3.50	0	0.00	0	0.00	0	0.00	1500	3.50	0	0.00	
DEVELOPMENT OF POND	Sqm	233	1700	3.96	0	0.00	0	0.00	0	0.00	0	0.00	1700	3.96	
Brick Canal	RM	2560	200	5.12	0	0.00	0	0.00	200	5.12	0	0.00	0	0.00	
Brick Canal	RM	2560	240	6.14	0	0.00	240	6.14	0	0.00	0	0.00	0	0.00	
Brick Canal	RM	2560	240	6.14	240	6.14	0	0.00	0	0.00	0	0.00	0	0.00	

<b>Name of Micro Watershed</b>	<b>Radhakuchi MWS</b>														
<b>Name of Village</b>	<b>Radhakuchi</b>														
<b>Name of Intervention</b>	<b>Unit</b>	<b>Rate (in INR)</b>	<b>TOTAL</b>		<b>1st Year</b>		<b>2nd Year</b>		<b>3rd Year</b>		<b>4th Year</b>		<b>5th Year</b>		
			<b>Phy</b>	<b>Fin</b>	<b>Phy</b>	<b>Fin</b>	<b>Phy</b>	<b>Fin</b>	<b>Phy</b>	<b>Fin</b>	<b>Phy</b>	<b>Fin</b>	<b>Phy</b>	<b>Fin</b>	
Brick Canal	RM	2560	240	6.14	240	6.14	0	0.00	0	0.00	0	0.00	0	0.00	
Brick Canal	RM	2560	320	8.19	0	0.00	320	8.19	0	0.00	0	0.00	0	0.00	
<b>Name of Micro Watershed</b>	<b>Radhakuchi MWS</b>														
<b>Name of Village</b>	<b>Radhakuchi Habi</b>														
<b>Name of Intervention</b>	<b>Unit</b>	<b>Rate (in INR)</b>	<b>TOTAL</b>		<b>1st Year</b>		<b>2nd Year</b>		<b>3rd Year</b>		<b>4th Year</b>		<b>5th Year</b>		
			<b>Phy</b>	<b>Fin</b>	<b>Phy</b>	<b>Fin</b>	<b>Phy</b>	<b>Fin</b>	<b>Phy</b>	<b>Fin</b>	<b>Phy</b>	<b>Fin</b>	<b>Phy</b>	<b>Fin</b>	
DEVELOPMENT OF POND	CU M	233	2200	5.13	0	0.00	0	0.00	0	0.00	0	0.00	2200	5.13	
Pond	Sqm	233	1700	3.96	0	0.00	0	0.00	0	0.00	1700	3.96	0	0.00	
Pond	Sqm	233	2200	5.13	0	0.00	0	0.00	2200	5.13	0	0.00	0	0.00	
Brick Canal	RM	2560	240	6.14	0	0.00	240	6.14	0	0.00	0	0.00	0	0.00	
Brick Canal	RM	2560	250	6.40	250	6.40	0	0.00	0	0.00	0	0.00	0	0.00	
Brick Canal	RM	2560	290	7.42	0	0.00	290	7.42	0	0.00	0	0.00	0	0.00	
Brick Canal	RM	2560	240	6.14	0	0.00	0	0.00	240	6.14	0	0.00	0	0.00	
<b>SUB TOTAL</b>			<b>15230.00</b>	<b>122.28</b>	<b>3210.00</b>	<b>30.98</b>	<b>1770.00</b>	<b>45.31</b>	<b>3150.00</b>	<b>29.45</b>	<b>3200.00</b>	<b>7.46</b>	<b>3900.00</b>	<b>9.09</b>	
<b>Name of Micro Watershed</b>	<b>Sitolijan MWS</b>														
<b>Name of Village</b>	<b>Jabrikuchi</b>														
<b>Name of Intervention</b>	<b>Unit</b>	<b>Rate (in INR)</b>	<b>TOTAL</b>		<b>1st Year</b>		<b>2nd Year</b>		<b>3rd Year</b>		<b>4th Year</b>		<b>5th Year</b>		
			<b>Phy</b>	<b>Fin</b>	<b>Phy</b>	<b>Fin</b>	<b>Phy</b>	<b>Fin</b>	<b>Phy</b>	<b>Fin</b>	<b>Phy</b>	<b>Fin</b>	<b>Phy</b>	<b>Fin</b>	
Brick Canal	RM	2560	240	6.14	240	6.14	0	0.00	0	0.00	0	0.00	0	0.00	
Brick Canal	RM	2560	240	6.14	0	0.00	0	0.00	240	6.14	0	0.00	0	0.00	
<b>Name of Micro Watershed</b>	<b>Sitolijan MWS</b>														
<b>Name of Village</b>	<b>Banbaria</b>														

Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		5th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
DEVELOPMENT OF POND	Sqm	233	1700	3.96	0	0.00	0	0.00	0	0.00	0	0.00	1700	3.96	
Agril Bund	RM	567	900	5.10	0	0.00	900	5.10	0	0.00	0	0.00	0	0.00	
Brick Canal	RM	2560	240	6.14	0	0.00	0	0.00	240	6.14	0	0.00	0	0.00	
<b>Name of Micro Watershed</b>	<b>Sitolijan MWS</b>														
<b>Name of Village</b>	<b>Bhella</b>														
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		5th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Pond	Sqm	233	1700	3.96	0	0.00	0	0.00	0	0.00	0	0.00	1700	3.96	
Agril Bund	RM	567	1100	6.24	0	0.00	0	0.00	1100	6.24	0	0.00	0	0.00	
Brick Canal	RM	2560	240	6.14	240	6.14	0	0.00	0	0.00	0	0.00	0	0.00	
Brick Canal	RM	2560	240	6.14	0	0.00	240	6.14	0	0.00	0	0.00	0	0.00	
Brick Canal	RM	2560	240	6.14	0	0.00	0	0.00	240	6.14	0	0.00	0	0.00	
Brick Canal	RM	2560	240	6.14	0	0.00	240	6.14	0	0.00	0	0.00	0	0.00	
Brick Canal	RM	2560	270	6.91	270	6.91	0	0.00	0	0.00	0	0.00	0	0.00	
Brick Canal	RM	2560	200	5.12	0	0.00	200	5.12	0	0.00	0	0.00	0	0.00	
Brick Canal	RM	2560	200	5.12	0	0.00	0	0.00	200	5.12	0	0.00	0	0.00	
Brick Canal	RM	2560	200	5.12	200	5.12	0	0.00	0	0.00	0	0.00	0	0.00	
<b>Name of Micro Watershed</b>	<b>Sitolijan MWS</b>														
<b>Name of Village</b>	<b>Khankarpara</b>														
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		5th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Brick Canal	RM	2560	200	5.12	200	5.12	0	0.00	0	0.00	0	0.00	0	0.00	
Brick Canal	RM	2560	240	6.14	0	0.00	240	6.14	0	0.00	0	0.00	0	0.00	
Brick Canal	RM	2560	200	5.12	0	0.00	200	5.12	0	0.00	0	0.00	0	0.00	
<b>Name of Micro Watershed</b>	<b>Sitolijan MWS</b>														

Name of Village		Bara													
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		5th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
DEVELOPMENT OF POND	Sqm	233	2600	6.06	2600	6.06	0	0.00	0	0.00	0	0.00	0	0.00	
DEVELOPMENT OF POND	Sqm	233	1600	3.73	0	0.00	0	0.00	0	0.00	1600	3.73	0	0.00	
Agril Bund	RM	567	1050	5.95	0	0.00	1050	5.95	0	0.00	0	0.00	0	0.00	
Brick Canal	RM	2560	240	6.14	240	6.14	0	0.00	0	0.00	0	0.00	0	0.00	
Name of Micro Watershed		Sitolijan MWS													
Name of Village		Barbila													
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		5th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Pond	Sqm	233	2400	5.59	2400	5.59	0	0.00	0	0.00	0	0.00	0	0.00	
Pond	Sqm	233	2200	5.13	0	0.00	2200	5.13	0	0.00	0	0.00	0	0.00	
Agril Bund	RM	567	1400	7.94	1400	7.94	0	0.00	0	0.00	0	0.00	0	0.00	
Brick Canal	RM	2560	240	6.14	0	0.00	240	6.14	0	0.00	0	0.00	0	0.00	
Brick Canal	RM	2560	240	6.14	240	6.14	0	0.00	0	0.00	0	0.00	0	0.00	
Horticulture Plantation	Hec	24150	2.998209	7.24	1.448405	3.50	0.488571	1.18	0.256231	0.62	0.068405	0.17	0.736594	1.78	
<b>SUB TOTAL</b>			<b>20563.00</b>	<b>160.99</b>	<b>8031.45</b>	<b>64.81</b>	<b>5510.49</b>	<b>52.18</b>	<b>2020.26</b>	<b>30.41</b>	<b>1600.07</b>	<b>3.89</b>	<b>3400.74</b>	<b>9.70</b>	
Name of Micro Watershed		Batikuriha MWS													
Name of Village		Batikuriha													
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		5th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
DEVELOPMENT OF POND	Sqm	233	1700	3.96	1700	3.96	0	0.00	0	0.00	0	0.00	0	0.00	
DEVELOPMENT OF POND	Sqm	233	2150	5.01	0	0.00	2150	5.01	0	0.00	0	0.00	0	0.00	
POND	Sqm	233	1700	3.96	1700	3.96	0	0.00	0	0.00	0	0.00	0	0.00	



Brick Canal	RM	2560	200	5.12	0	0.00	200	5.12	0	0.00	0	0.00	0	0.00	
<b>Name of Micro Watershed</b>	<b>Batikuriha MWS</b>														
<b>Name of Village</b>	<b>Kaljahi</b>														
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		5th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Agril Bund (with Slab Culvert)	RM	567	900	5.10	900	5.10	0	0.00	0	0.00	0	0.00	0	0.00	
Brick Canal	RM	2560	240	6.14	0	0.00	240	6.14	0	0.00	0	0.00	0	0.00	
Brick Canal	RM	2560	240	6.14	240	6.14	0	0.00	0	0.00	0	0.00	0	0.00	
Brick Canal	RM	2560	240	6.14	0	0.00	240	6.14	0	0.00	0	0.00	0	0.00	
<b>Name of Micro Watershed</b>	<b>Batikuriha MWS</b>														
<b>Name of Village</b>	<b>Sila</b>														
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		5th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Agril Bund	RM	567	700	3.97	0	0.00	0	0.00	0	0.00	0	0.00	700	3.97	
Brick Canal	RM	2560	240	6.14	0	0.00	0	0.00	0	0.00	240	6.14	0	0.00	
<b>Name of Micro Watershed</b>	<b>Batikuriha MWS</b>														
<b>Name of Village</b>	<b>Omura (Gumura)</b>														
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		5th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Agril Bund	RM	567	900	5.10	900	5.10	0	0.00	0	0.00	0	0.00	0	0.00	
Brick Canal (Slab Culvert)	RM	2560	240	6.14	0	0.00	240	6.14	0	0.00	0	0.00	0	0.00	
Brick Canal (Slab Culvert)	RM	2560	240	6.14	0	0.00	0	0.00	240	6.14	0	0.00	0	0.00	
Brick Canal (Slab Culvert)	RM	2560	240	6.14	0	0.00	0	0.00	0	0.00	240	6.14	0	0.00	
<b>Name of Micro Watershed</b>	<b>Batikuriha MWS</b>														
<b>Name of Village</b>	<b>Damal Jar</b>														
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		5th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	

		INR)													
Agril Bund	RM	567	900	5.10	900	5.10	0	0.00	0	0.00	0	0.00	0	0.00	
Brick Canal	RM	2560	240	6.14	0	0.00	240	6.14	0	0.00	0	0.00	0	0.00	
Brick Canal	RM	2560	200	5.12	0	0.00	0	0.00	200	5.12	0	0.00	0	0.00	
Brick Canal	RM	2560	240	6.14	240	6.14	0	0.00	0	0.00	0	0.00	0	0.00	
<b>Name of Micro Watershed</b>	<b>Batikuriha MWS</b>														
<b>Name of Village</b>	<b>Suha Bil Daloni (Sohabil Doloni)</b>														
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		5th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Pond	Sqm	233	2200	5.13	2200	5.13	0	0.00	0	0.00	0	0.00	0	0.00	
Agril Bund	RM	567	1400	7.94	0	0.00	1400	7.94	0	0.00	0	0.00	0	0.00	
Brick Canal	RM	2560	240	6.14	0	0.00	0	0.00	240	6.14	0	0.00	0	0.00	
Brick Canal	RM	2560	250	6.40	0	0.00	0	0.00	0	0.00	250	6.40	0	0.00	
<b>Name of Micro Watershed</b>	<b>Batikuriha MWS</b>														
<b>Name of Village</b>	<b>Dakreswar</b>														
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		5th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Brick Canal	RM	2560	240	6.14	0	0.00	240	6.14	0	0.00	0	0.00	0	0.00	
Brick Canal	RM	2560	250	6.40	250	6.40	0	0.00	0	0.00	0	0.00	0	0.00	
Brick Canal	RM	2560	220	5.63	0	0.00	0	0.00	220	5.63	0	0.00	0	0.00	
<b>Name of Micro Watershed</b>	<b>Batikuriha MWS</b>														
<b>Name of Village</b>	<b>Bar Suha (Barsoha)</b>														
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		5th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Pond	Sqm	233	1950	4.54	1950	4.54	0	0.00	0	0.00	0	0.00	0	0.00	
Agril Bund	RM	567	900	5.10	0	0.00	0	0.00	900	5.10	0	0.00	0	0.00	
Agril Bund	RM	567	900	5.10	0	0.00	900	5.10	0	0.00	0	0.00	0	0.00	
Brick Canal	RM	2560	220	5.63	220	5.63	0	0.00	0	0.00	0	0.00	0	0.00	

<b>SUB TOTAL</b>			<b>20280.00</b>	<b>161.91</b>	<b>11200.00</b>	<b>57.22</b>	<b>5850.00</b>	<b>53.89</b>	<b>1800.00</b>	<b>28.14</b>	<b>730.00</b>	<b>18.69</b>	<b>700.00</b>	<b>3.97</b>
<b>Name of Micro Watershed</b>	<b>Guma MWS</b>													
<b>Name of Village</b>	<b>Belortari</b>													
<b>Name of Intervention</b>	<b>Unit</b>	<b>Rate (in INR)</b>	<b>TOTAL</b>		<b>1st Year</b>		<b>2nd Year</b>		<b>3rd Year</b>		<b>4th Year</b>		<b>5th Year</b>	
			<b>Phy</b>	<b>Fin</b>	<b>Phy</b>	<b>Fin</b>	<b>Phy</b>	<b>Fin</b>	<b>Phy</b>	<b>Fin</b>	<b>Phy</b>	<b>Fin</b>	<b>Phy</b>	<b>Fin</b>
AGRI BUND WITH HUME PIPE	RM	567	900	5.10	900	5.10	0	0.00	0	0.00	0	0.00	0	0.00
AGRI BUND WITH HUME PIPE	RM	567	1050	5.95	0	0.00	1050	5.95	0	0.00	0	0.00	0	0.00
Agri bund	RM	567	1050	5.95	0	0.00	0	0.00	1050	5.95	0	0.00	0	0.00
Brick Canal	RM	2560	240	6.14	0	0.00	240	6.14	0	0.00	0	0.00	0	0.00
Brick Canal	RM	2560	240	6.14	240	6.14	0	0.00	0	0.00	0	0.00	0	0.00
<b>Name of Micro Watershed</b>	<b>Guma MWS</b>													
<b>Name of Village</b>	<b>Khapan Baria Bhitha</b>													
<b>Name of Intervention</b>	<b>Unit</b>	<b>Rate (in INR)</b>	<b>TOTAL</b>		<b>1st Year</b>		<b>2nd Year</b>		<b>3rd Year</b>		<b>4th Year</b>		<b>5th Year</b>	
			<b>Phy</b>	<b>Fin</b>	<b>Phy</b>	<b>Fin</b>	<b>Phy</b>	<b>Fin</b>	<b>Phy</b>	<b>Fin</b>	<b>Phy</b>	<b>Fin</b>	<b>Phy</b>	<b>Fin</b>
Pond	Sqm	233		0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Pond	Sqm	233		0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Pond	Sqm	233		0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Pond	Sqm	233		0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Horticulture Plantation	Hec	24150	1	2.42	0	0.00	0	0.00	1	2.42	0	0.00	0	0.00
<b>Name of Micro Watershed</b>	<b>Guma MWS</b>													
<b>Name of Village</b>	<b>Bar Ghol</b>													
<b>Name of Intervention</b>	<b>Unit</b>	<b>Rate (in INR)</b>	<b>TOTAL</b>		<b>1st Year</b>		<b>2nd Year</b>		<b>3rd Year</b>		<b>4th Year</b>		<b>5th Year</b>	
			<b>Phy</b>	<b>Fin</b>	<b>Phy</b>	<b>Fin</b>	<b>Phy</b>	<b>Fin</b>	<b>Phy</b>	<b>Fin</b>	<b>Phy</b>	<b>Fin</b>	<b>Phy</b>	<b>Fin</b>
Agri bund	RM	567	500	2.84	500	2.84	0	0.00	0	0.00	0	0.00	0	0.00
<b>Name of Micro Watershed</b>	<b>Guma MWS</b>													

Name of Village		Kachari Para													
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		5th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Agri bund	RM	567	400	2.27	0	0.00	0	0.00	400	2.27	0	0.00	0	0.00	
Name of Micro Watershed		Guma MWS													
Name of Village		Pajar Bhanga													
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		5th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Agri bund	RM	567	400	2.27	0	0.00	400	2.27	0	0.00	0	0.00	0	0.00	
Name of Micro Watershed		Guma MWS													
Name of Village		Bar Baradi													
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		5th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Agri bund	RM	567	400	2.27	0	0.00	400	2.27	0	0.00	0	0.00	0	0.00	
Horticulture Plantation	Hec	24150 0	1	2.42	1	2.42	0	0.00	0	0.00	0	0.00	0	0.00	
Name of Micro Watershed		Guma MWS													
Name of Village		Balapara													
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		5th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Agri bund	RM	567	400	2.27	0	0.00	0	0.00	400	2.27	0	0.00	0	0.00	
Horticulture Plantation	Hec	24150 0	1	2.42	0	0.00	0	0.00	0	0.00	1	2.42	0	0.00	
Name of Micro Watershed		Guma MWS													
Name of Village		Tarabari													
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		5th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	

Agri bund	RM	567	400	2.27	0	0.00	400	2.27	0	0.00	0	0.00	0	0.00
Horticulture Plantation	Hec	24150 0	2	4.83	0	0.00	1	2.42	0	0.00	0	0.00	1	2.42
<b>Name of Micro Watershed</b>	<b>Guma MWS</b>													
<b>Name of Village</b>	<b>Guma (Goma)</b>													
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		5th Year	
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
Agri bund	RM	567	400	2.27	400	2.27	0	0.00	0	0.00	0	0.00	0	0.00
Horticulture Plantation	Hec	24150 0	2.241665	5.41	0.53706	1.30	0.157763	0.38	0.771842	1.86	0	0.00	0.775	1.87
<b>SUB TOTAL</b>			<b>6387.24</b>	<b>63.23</b>	<b>2041.54</b>	<b>20.06</b>	<b>2491.16</b>	<b>21.70</b>	<b>1851.77</b>	<b>14.77</b>	<b>1.00</b>	<b>2.42</b>	<b>1.78</b>	<b>4.29</b>
<b>GRAND TOTAL</b>				<b>508.4178</b> <b>0</b>		<b>173.0</b> <b>8</b>		<b>173.0</b> <b>8</b>		<b>102.7</b> <b>7</b>		<b>32.4</b> <b>5</b>		<b>27.0</b> <b>4</b>

## Appendix-II

### Village wise Intervention under Production System

<b>Name of Micro Watershed</b>	<b>Radhakuchi MWS</b>														
<b>Name of Village</b>	<b>Panichilla</b>														
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		5th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Fishery	NO	44000	3	1.32	0	0.00	0	0.00	3	1.32	0	0.00	0	0.00	
Apple Bear Cultivation	NO	44000	2	0.88	1	0.44	0	0.00	0	0.00	0	0.00	1	0.44	
Papaya Cultivation (Red Lady)	NO	44000	2	0.88	2	0.88	0	0.00	0	0.00	0	0.00	0	0.00	
Som & Sualo Plantation	NO	44000	2	0.88	1	0.44	0	0.00	0	0.00	0	0.00	1	0.44	
Assam Lemon Cultivation	NO	44000	2	0.88	1	0.44	0	0.00	0	0.00	0	0.00	1	0.44	
Bananna Cultivation	NO	44000	2	0.88	0	0.00	2	0.88	0	0.00	0	0.00	0	0.00	
<b>Name of Micro Watershed</b>	<b>Radhakuchi MWS</b>														
<b>Name of Village</b>	<b>Kharua Para (Nagaon Kharuapara)</b>														
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Fishery	NO	44000	3	1.32	0	0.00	0	0.00	0	0.00	3	1.32	0	0.00	
Apple Bear Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	0	0.00	2	0.88	0	0.00	
Papaya Cultivation (Red Lady)	NO	44000	2	0.88	0	0.00	2	0.88	0	0.00	0	0.00	0	0.00	
Som & Sualo Plantation	NO	44000	2	0.88	0	0.00	2	0.88	0	0.00	0	0.00	0	0.00	
Assam Lemon Cultivation	NO	44000	2	0.88	0	0.00	2	0.88	0	0.00	0	0.00	0	0.00	
Bananna Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	2	0.88	0	0.00	0	0.00	
<b>Name of Micro Watershed</b>	<b>Radhakuchi MWS</b>														
<b>Name of Village</b>	<b>Tatikuchi</b>														
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Fishery	NO	44000	3	1.32	0	0.00	3	1.32	0	0.00	0	0.00	0	0.00	
Apple Bear Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	2	0.88	0	0.00	0	0.00	
Papaya Cultivation (Red Lady)	NO	44000	2	0.88	0	0.00	0	0.00	1	0.44	1	0.44	0	0.00	

Som & Sualo Plantation	NO	44000	2	0.88	0	0.00	0	0.00	2	0.88	0	0.00	0	0.00	
Assam Lemon Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	2	0.88	0	0.00	0	0.00	
Bananna Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	2	0.88	0	0.00	0	0.00	
<b>Name of Micro Watershed</b>	<b>Radhakuchi MWS</b>														
<b>Name of Village</b>	<b>Radhakuchi</b>														
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Fishery	NO	44000	3	1.32	0	0.00	0	0.00	3	1.32	0	0.00	0	0.00	
Apple Bear Cultivation	NO	44000	2	0.88	0	0.00	2	0.88	0	0.00	0	0.00	0	0.00	
Papaya Cultivation (Red Lady)	NO	44000	2	0.88	0	0.00	0	0.00	0	0.00	1	0.44	1	0.44	
Som & Sualo Plantation	NO	44000	2	0.88	0	0.00	0	0.00	0	0.00	2	0.88	0	0.00	
Assam Lemon Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	0	0.00	2	0.88	0	0.00	
Bananna Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	0	0.00	2	0.88	0	0.00	
<b>Name of Micro Watershed</b>	<b>Radhakuchi MWS</b>														
<b>Name of Village</b>	<b>Radhakuchi Habi</b>														
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Fishery	NO	44000	3	1.32	0	0.00	0	0.00	0	0.00	3	1.32	0	0.00	
Apple Bear Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	2	0.88	0	0.00	0	0.00	
Papaya Cultivation (Red Lady)	NO	44000	2	0.88	0	0.00	0	0.00	2	0.88	0	0.00	0	0.00	
Som & Sualo Plantation	NO	44000	3	1.32	0	0.00	0	0.00	3	1.32	0	0.00	0	0.00	
Assam Lemon Cultivation	NO	44000	2	0.88	1	0.44	0	0.00	0	0.00	0	0.00	1	0.44	
Bananna Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	0	0.00	2	0.88	0	0.00	
<b>SUB TOTAL</b>			<b>66.00</b>	<b>29.04</b>	<b>6.00</b>	<b>2.64</b>	<b>13.00</b>	<b>5.72</b>	<b>24.00</b>	<b>10.56</b>	<b>18.00</b>	<b>7.92</b>	<b>5.00</b>	<b>2.20</b>	
<b>Name of Micro Watershed</b>	<b>Sitolijan MWS</b>														
<b>Name of Village</b>	<b>Jabrikuchi</b>														
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Fishery	NO	44000	3	1.32	0	0.00	0	0.00	3	1.32	0	0.00	0	0.00	
Apple Bear Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	0	0.00	2	0.88	0	0.00	
Papaya Cultivation (Red Lady)	NO	44000	2	0.88	0	0.00	2	0.88	0	0.00	0	0.00	0	0.00	

Som & Sualo Plantation	NO	44000	2	0.88	0	0.00	2	0.88	0	0.00	0	0.00	0	0.00	
Assam Lemon Cultivation	NO	44000	2	0.88	0	0.00	2	0.88	0	0.00	0	0.00	0	0.00	
Bananna Cultivation	NO	44000	2	0.88	1	0.44	0	0.00	0	0.00	0	0.00	1	0.44	
<b>Name of Micro Watershed</b>	<b>Sitolijan MWS</b>														
<b>Name of Village</b>	<b>Banbaria</b>														
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Fishery	NO	44000	3	1.32	0	0.00	0	0.00	3	1.32	0	0.00	0	0.00	
Apple Bear Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	0	0.00	0	0.00	2	0.88	
Papaya Cultivation (Red Lady)	NO	44000	2	0.88	2	0.88	0	0.00	0	0.00	0	0.00	0	0.00	
Som & Sualo Plantation	NO	44000	2	0.88	0	0.00	0	0.00	2	0.88	0	0.00	0	0.00	
Assam Lemon Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	2	0.88	0	0.00	0	0.00	
Bananna Cultivation	NO	44000	2	0.88	0	0.00	2	0.88	0	0.00	0	0.00	0	0.00	
<b>Name of Micro Watershed</b>	<b>Sitolijan MWS</b>														
<b>Name of Village</b>	<b>Bhella</b>														
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Fishery	NO	44000	3	1.32	0	0.00	0	0.00	0	0.00	3	1.32	0	0.00	
Apple Bear Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	0	0.00	2	0.88	0	0.00	
Papaya Cultivation (Red Lady)	NO	44000	2	0.88	0	0.00	2	0.88	0	0.00	0	0.00	0	0.00	
Som & Sualo Plantation	NO	44000	2	0.88	0	0.00	0	0.00	0	0.00	2	0.88	0	0.00	
Assam Lemon Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	0	0.00	2	0.88	0	0.00	
Bananna Cultivation	NO	44000	2	0.88	0	0.00	2	0.88	0	0.00	0	0.00	0	0.00	
<b>Name of Micro Watershed</b>	<b>Sitolijan MWS</b>														
<b>Name of Village</b>	<b>Khankarpara</b>														
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Fishery	NO	44000	3	1.32	0	0.00	0	0.00	3	1.32	0	0.00	0	0.00	
Apple Bear Cultivation	NO	44000	3	1.32	0	0.00	0	0.00	3	1.32	0	0.00	0	0.00	
Papaya Cultivation (Red Lady)	NO	44000	3	1.32	1	0.44	0	0.00	2	0.88	0	0.00	0	0.00	
Som & Sualo Plantation	NO	44000	3	1.32	0	0.00	0	0.00	3	1.32	0	0.00	0	0.00	



Assam Lemon Cultivation	NO	44000	3	1.32	0	0.00	0	0.00	3	1.32	0	0.00	0	0.00
Bananna Cultivation	NO	44000	3	1.32	0	0.00	0	0.00	3	1.32	0	0.00	0	0.00
<b>Name of Micro Watershed</b>	<b>Sitolijan MWS</b>													
<b>Name of Village</b>	<b>Bara</b>													
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year	
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
Fishery	NO	44000	3	1.32	0	0.00	0	0.00	0	0.00	3	1.32	0	0.00
Apple Bear Cultivation	NO	44000	3	1.32	0	0.00	2	0.88	1	0.44	0	0.00	0	0.00
Papaya Cultivation (Red Lady)	NO	44000	3	1.32	1	0.44	0	0.00	0	0.00	1	0.44	1	0.44
Som & Sualo Plantation	NO	44000	3	1.32	0	0.00	2	0.88	1	0.44	0	0.00	0	0.00
Assam Lemon Cultivation	NO	44000	3	1.32	0	0.00	2	0.88	1	0.44	0	0.00	0	0.00
Bananna Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	2	0.88	0	0.00	0	0.00
<b>Name of Micro Watershed</b>	<b>Sitolijan MWS</b>													
<b>Name of Village</b>	<b>Barbila</b>													
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year	
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
Fishery	NO	44000	3	1.32	0	0.00	0	0.00	3	1.32	0	0.00	0	0.00
Apple Bear Cultivation	NO	44000	3	1.32	2	0.88	0	0.00	1	0.44	0	0.00	0	0.00
Papaya Cultivation (Red Lady)	NO	44000	3	1.32	1	0.44	0	0.00	2	0.88	0	0.00	0	0.00
Som & Sualo Plantation	NO	44000	2	0.88	0	0.00	0	0.00	2	0.88	0	0.00	0	0.00
Assam Lemon Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	2	0.88	0	0.00	0	0.00
Bananna Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	2	0.88	0	0.00	0	0.00
<b>SUB TOTAL</b>			<b>89.00</b>	<b>39.16</b>	<b>8.00</b>	<b>3.52</b>	<b>18.00</b>	<b>7.92</b>	<b>44.00</b>	<b>19.36</b>	<b>15.00</b>	<b>6.60</b>	<b>4.00</b>	<b>1.76</b>
<b>Name of Micro Watershed</b>	<b>Batikuriha MWS</b>													
<b>Name of Village</b>	<b>Batikuriha</b>													
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year	
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
Fishery	NO	44000	3	1.32	0	0.00	0	0.00	3	1.32	0	0.00	0	0.00
Apple Bear Cultivation	NO	44000	2	0.88	0	0.00	2	0.88	0	0.00	0	0.00	0	0.00
Papaya Cultivation (Red Lady)	NO	44000	2	0.88	0	0.00	2	0.88	0	0.00	0	0.00	0	0.00
Som & Sualo Plantation	NO	44000	2	0.88	0	0.00	0	0.00	0	0.00	2	0.88	0	0.00

Assam Lemon Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	0	0.00	2	0.88	0	0.00
Bananna Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	0	0.00	2	0.88	0	0.00
<b>Name of Micro Watershed</b>	<b>Batikuriha MWS</b>													
<b>Name of Village</b>	<b>Kaljahi</b>													
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year	
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
Fishery	NO	44000	3	1.32	0	0.00	0	0.00	0	0.00	3	1.32	0	0.00
Apple Bear Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	2	0.88	0	0.00	0	0.00
Papaya Cultivation (Red Lady)	NO	44000	2	0.88	2	0.88	0	0.00	0	0.00	0	0.00	0	0.00
Som & Sualo Plantation	NO	44000	2	0.88	0	0.00	0	0.00	2	0.88	0	0.00	0	0.00
Assam Lemon Cultivation	NO	44000	2	0.88	1	0.44	0	0.00	0	0.00	0	0.00	1	0.44
Bananna Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	0	0.00	2	0.88	0	0.00
<b>Name of Micro Watershed</b>	<b>Batikuriha MWS</b>													
<b>Name of Village</b>	<b>Sila</b>													
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year	
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
Fishery	NO	44000	3	1.32	0	0.00	0	0.00	0	0.00	3	1.32	0	0.00
Apple Bear Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	0	0.00	2	0.88	0	0.00
Papaya Cultivation (Red Lady)	NO	44000	2	0.88	2	0.88	0	0.00	0	0.00	0	0.00	0	0.00
Som & Sualo Plantation	NO	44000	2	0.88	0	0.00	2	0.88	0	0.00	0	0.00	0	0.00
Assam Lemon Cultivation	NO	44000	2	0.88	0	0.00	2	0.88	0	0.00	0	0.00	0	0.00
Bananna Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	0	0.00	2	0.88	0	0.00
<b>Name of Micro Watershed</b>	<b>Batikuriha MWS</b>													
<b>Name of Village</b>	<b>Omura (Gumura)</b>													
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year	
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
Fishery	NO	44000	3	1.32	0	0.00	0	0.00	3	1.32	0	0.00	0	0.00
Apple Bear Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	0	0.00	0	0.00	2	0.88
Papaya Cultivation (Red Lady)	NO	44000	2	0.88	2	0.88	0	0.00	0	0.00	0	0.00	0	0.00
Som & Sualo Plantation	NO	44000	2	0.88	0	0.00	0	0.00	2	0.88	0	0.00	0	0.00
Assam Lemon Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	2	0.88	0	0.00	0	0.00

Bananna Cultivation	NO	44000	2	0.88	1	0.44	0	0.00	0	0.00	0	0.00	1	0.44
<b>Name of Micro Watershed</b>	<b>Batikuriha MWS</b>													
<b>Name of Village</b>	<b>Damal Jar</b>													
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year	
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
Fishery	NO	44000	3	1.32	0	0.00	0	0.00	3	1.32	0	0.00	0	0.00
Apple Bear Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	0	0.00	2	0.88	0	0.00
Papaya Cultivation (Red Lady)	NO	44000	2	0.88	0	0.00	2	0.88	0	0.00	0	0.00	0	0.00
Som & Sualo Plantation	NO	44000	2	0.88	0	0.00	0	0.00	0	0.00	2	0.88	0	0.00
Assam Lemon Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	0	0.00	2	0.88	0	0.00
Bananna Cultivation	NO	44000	2	0.88	0	0.00	2	0.88	0	0.00	0	0.00	0	0.00
<b>Name of Micro Watershed</b>	<b>Batikuriha MWS</b>													
<b>Name of Village</b>	<b>Bar Suha (Barsoha)</b>													
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year	
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
Fishery	NO	44000	3	1.32	0	0.00	0	0.00	0	0.00	3	1.32	0	0.00
Apple Bear Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	2	0.88	0	0.00	0	0.00
Papaya Cultivation (Red Lady)	NO	44000	2	0.88	0	0.00	2	0.88	0	0.00	0	0.00	0	0.00
Som & Sualo Plantation	NO	44000	2	0.88	0	0.00	0	0.00	2	0.88	0	0.00	0	0.00
Assam Lemon Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	2	0.88	0	0.00	0	0.00
Bananna Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	2	0.88	0	0.00	0	0.00
<b>Name of Micro Watershed</b>	<b>Batikuriha MWS</b>													
<b>Name of Village</b>	<b>Suha Bil Daloni (Sohabil Doloni)</b>													
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year	
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
Fishery	NO	44000	3	1.32	0	0.00	0	0.00	0	0.00	3	1.32	0	0.00
Apple Bear Cultivation	NO	44000	2	0.88	0	0.00	2	0.88	0	0.00	0	0.00	0	0.00
Papaya Cultivation (Red Lady)	NO	44000	2	0.88	0	0.00	0	0.00	2	0.88	0	0.00	0	0.00
Som & Sualo Plantation	NO	44000	2	0.88	0	0.00	0	0.00	2	0.88	0	0.00	0	0.00
Assam Lemon Cultivation	NO	44000	2	0.88	0	0.00	2	0.88	0	0.00	0	0.00	0	0.00
Bananna Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	0	0.00	2	0.88	0	0.00

Name of Micro Watershed		Batikuriha MWS												
Name of Village		Dakreswar												
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year	
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
Fishery	NO	44000	3	1.32	0	0.00	3	1.32	0	0.00	0	0.00	0	0.00
Apple Bear Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	2	0.88	0	0.00	0	0.00
Papaya Cultivation (Red Lady)	NO	44000	2	0.88	0	0.00	0	0.00	0	0.00	2	0.88	0	0.00
Som & Sualo Plantation	NO	44000	2	0.88	0	0.00	0	0.00	2	0.88	0	0.00	0	0.00
Assam Lemon Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	2	0.88	0	0.00	0	0.00
Bananna Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	2	0.88	0	0.00	0	0.00
<b>SUB TOTAL</b>			<b>104.00</b>	<b>45.76</b>	<b>8.00</b>	<b>3.52</b>	<b>21.00</b>	<b>9.24</b>	<b>37.00</b>	<b>16.28</b>	<b>34.00</b>	<b>14.96</b>	<b>4.00</b>	<b>1.76</b>
Name of Micro Watershed		Guma MWS												
Name of Village		Belortari												
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year	
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
Fishery	NO	44000	3	1.32	0	0.00	3	1.32	0	0.00	0	0.00	0	0.00
Apple Bear Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	0	0.00	2	0.88	0	0.00
Papaya Cultivation (Red Lady)	NO	44000	2	0.88	0	0.00	0	0.00	2	0.88	0	0.00	0	0.00
Som & Sualo Plantation	NO	44000	2	0.88	0	0.00	0	0.00	0	0.00	2	0.88	0	0.00
Assam Lemon Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	0	0.00	2	0.88	0	0.00
Bananna Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	2	0.88	0	0.00	0	0.00
Name of Micro Watershed		Guma MWS												
Name of Village		Khapan Baria Bhitha												
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year	
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
Fishery	NO	44000	3	1.32	0	0.00	0	0.00	0	0.00	3	1.32	0	0.00
Papaya Cultivation (Red Lady)	NO	44000	2	0.88	0	0.00	2	0.88	0	0.00	0	0.00	0	0.00
Som & Sualo Plantation	NO	44000	2	0.88	0	0.00	0	0.00	0	0.00	2	0.88	0	0.00
Assam Lemon Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	2	0.88	0	0.00	0	0.00
Bananna Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	0	0.00	2	0.88	0	0.00
Name of Micro Watershed		Guma MWS												

Name of Village		Bar Ghol												
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year	
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
Fishery	NO	44000	3	1.32	0	0.00	0	0.00	3	1.32	0	0.00	0	0.00
Apple Bear Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	2	0.88	0	0.00	0	0.00
Papaya Cultivation (Red Lady)	NO	44000	2	0.88	0	0.00	0	0.00	2	0.88	0	0.00	0	0.00
Som & Sualo Plantation	NO	44000	2	0.88	0	0.00	0	0.00	2	0.88	0	0.00	0	0.00
Assam Lemon Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	2	0.88	0	0.00	0	0.00
Bananna Cultivation	NO	44000	2	0.88	0	0.00	2	0.88	0	0.00	0	0.00	0	0.00
Name of Micro Watershed		Guma MWS												
Name of Village		Kachari Para												
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year	
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
Fishery	NO	44000	3	1.32	0	0.00	3	1.32	0	0.00	0	0.00	0	0.00
Apple Bear Cultivation	NO	44000	2	0.88	0	0.00	2	0.88	0	0.00	0	0.00	0	0.00
Papaya Cultivation (Red Lady)	NO	44000	2	0.88	0	0.00	2	0.88	0	0.00	0	0.00	0	0.00
Som & Sualo Plantation	NO	44000	2	0.88	0	0.00	0	0.00	0	0.00	2	0.88	0	0.00
Assam Lemon Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	2	0.88	0	0.00	0	0.00
Bananna Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	2	0.88	0	0.00	0	0.00
Name of Micro Watershed		Guma MWS												
Name of Village		Pajar Bhanga												
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year	
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
Fishery	NO	44000	3	1.32	0	0.00	0	0.00	3	1.32	0	0.00	0	0.00
Apple Bear Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	2	0.88	0	0.00	0	0.00
Papaya Cultivation (Red Lady)	NO	44000	2	0.88	0	0.00	2	0.88	0	0.00	0	0.00	0	0.00
Som & Sualo Plantation	NO	44000	2	0.88	0	0.00	0	0.00	2	0.88	0	0.00	0	0.00
Assam Lemon Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	0	0.00	2	0.88	0	0.00
Bananna Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	0	0.00	2	0.88	0	0.00
Name of Micro Watershed		Guma MWS												
Name of Village		Bar Baradi												

Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Fishery	NO	44000	3	1.32	0	0.00	0	0.00	0	0.00	3	1.32	0	0.00	
Apple Bear Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	0	0.00	2	0.88	0	0.00	
Papaya Cultivation (Red Lady)	NO	44000	2	0.88	2	0.88	0	0.00	0	0.00	0	0.00	0	0.00	
Som & Sualo Plantation	NO	44000	2	0.88	0	0.00	0	0.00	0	0.00	2	0.88	0	0.00	
Assam Lemon Cultivation	NO	44000	2	0.88	0	0.00	2	0.88	0	0.00	0	0.00	0	0.00	
Bananna Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	2	0.88	0	0.00	0	0.00	
<b>Name of Micro Watershed</b>	<b>Guma MWS</b>														
<b>Name of Village</b>	<b>Balapara</b>														
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Fishery	NO	44000	3	1.32	0	0.00	0	0.00	3	1.32	0	0.00	0	0.00	
Papaya Cultivation (Red Lady)	NO	44000	2	0.88	0	0.00	0	0.00	0	0.00	1	0.44	1	0.44	
Som & Sualo Plantation	NO	44000	2	0.88	0	0.00	0	0.00	2	0.88	0	0.00	0	0.00	
Assam Lemon Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	2	0.88	0	0.00	0	0.00	
Bananna Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	0	0.00	2	0.88	0	0.00	
<b>Name of Micro Watershed</b>	<b>Guma MWS</b>														
<b>Name of Village</b>	<b>Tarabari</b>														
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Fishery	NO	44000	3	1.32	0	0.00	2	0.88	1	0.44	0	0.00	0	0.00	
Papaya Cultivation (Red Lady)	NO	44000	2	0.88	0	0.00	2	0.88	0	0.00	0	0.00	0	0.00	
Som & Sualo Plantation	NO	44000	2	0.88	0	0.00	0	0.00	0	0.00	2	0.88	0	0.00	
Assam Lemon Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	0	0.00	2	0.88	0	0.00	
Bananna Cultivation	NO	44000	2	0.88	1	0.44	0	0.00	0	0.00	0	0.00	1	0.44	
<b>Name of Micro Watershed</b>	<b>Guma MWS</b>														
<b>Name of Village</b>	<b>Guma (Goma)</b>														
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Fishery	NO	44000	3	1.32	0	0.00	0	0.00	0	0.00	0	0.00	3	1.32	

Papaya Cultivation (Red Lady)	NO	44000	2	0.88	0	0.00	0	0.00	0	0.00	2	0.88	0	0.00
Som & Sualo Plantation	NO	44000	2	0.88	0	0.00	0	0.00	2	0.88	0	0.00	0	0.00
Assam Lemon Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	2	0.88	0	0.00	0	0.00
Bananna Cultivation	NO	44000	2	0.88	0	0.00	0	0.00	0	0.00	2	0.88	0	0.00
Vermi Composting	NO	34100	1	0.34	0	0.00	0	0.00	1	0.34	0	0.00	0	0.00
<b>SUB TOTAL</b>			<b>110.00</b>	<b>48.30</b>	<b>3.00</b>	<b>1.32</b>	<b>22.00</b>	<b>9.68</b>	<b>43.00</b>	<b>18.82</b>	<b>37.00</b>	<b>16.28</b>	<b>5.00</b>	<b>2.20</b>
<b>GRAND TOTAL</b>			<b>369.00</b>	<b>162.26100000</b>	<b>25.00</b>	<b>11.00</b>	<b>74.00</b>	<b>32.56</b>	<b>148.00</b>	<b>65.02</b>	<b>104.00</b>	<b>45.76</b>	<b>18.00</b>	<b>7.92</b>

### Appendix-III

#### Village Wise Intervention under Livelihood Activities

<b>Name of Micro Watershed</b>		<b>Radhakuchi MWS</b>													
<b>Name of Village</b>		<b>Panichilla</b>													
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		5th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Goatry	NO	25000	8	2.00	2	0.50	4	1.00	2	0.50	0	0.00	0	0.00	
Poultry	NO	25000	5	1.25	2	0.50	0	0.00	3	0.75	0	0.00	0	0.00	
Duckery	NO	25000	6	1.50	0	0.00	4	1.00	0	0.00	0	0.00	2	0.50	
broiler Farm	NO	25000	6	1.50	6	1.50	0	0.00	0	0.00	0	0.00	0	0.00	
<b>Name of Micro Watershed</b>		<b>Radhakuchi MWS</b>													
<b>Name of Village</b>		<b>Kharua Para (Nagaon Kharuapara)</b>													
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Goatry	NO	25000	8	2.00	0	0.00	4	1.00	0	0.00	4	1.00	0	0.00	
Poultry	NO	25000	5	1.25	0	0.00	0	0.00	5	1.25	0	0.00	0	0.00	
Duckery	NO	25000	6	1.50	0	0.00	0	0.00	0	0.00	2	0.50	4	1.00	
broiler Farm	NO	25000	6	1.50	0	0.00	0	0.00	6	1.50	0	0.00	0	0.00	
<b>Name of Micro Watershed</b>		<b>Radhakuchi MWS</b>													
<b>Name of Village</b>		<b>Tatikuchi</b>													
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Goatry	NO	25000	8	2.00	0	0.00	4	1.00	4	1.00	0	0.00	0	0.00	
Poultry	NO	25000	5	1.25	0	0.00	0	0.00	0	0.00	4	1.00	1	0.25	
Duckery	NO	25000	6	1.50	0	0.00	0	0.00	2	0.50	4	1.00	0	0.00	
broiler Farm	NO	25000	6	1.50	0	0.00	0	0.00	0	0.00	3	0.75	3	0.75	
<b>Name of Micro Watershed</b>		<b>Radhakuchi MWS</b>													
<b>Name of Village</b>		<b>Radhakuchi</b>													
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	



Goatry	NO	25000	8	2.00	0	0.00	0	0.00	4	1.00	4	1.00	0	0.00	
Poultry	NO	25000	5	1.25	2	0.50	0	0.00	1	0.25	0	0.00	2	0.50	
Duckery	NO	25000	6	1.50	0	0.00	0	0.00	2	0.50	0	0.00	4	1.00	
broiler Farm	NO	25000	6	1.50	0	0.00	0	0.00	0	0.00	0	0.00	6	1.50	
<b>Name of Micro Watershed</b>	<b>Radhakuchi MWS</b>														
<b>Name of Village</b>	<b>Radhakuchi Habi</b>														
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Goatry	NO	25000	8	2.00	0	0.00	4	1.00	4	1.00	0	0.00	0	0.00	
Poultry	NO	25000	5	1.25	0	0.00	0	0.00	5	1.25	0	0.00	0	0.00	
Duckery	NO	25000	6	1.50	0	0.00	2	0.50	0	0.00	4	1.00	0	0.00	
broiler Farm	NO	25000	6	1.50	0	0.00	0	0.00	0	0.00	0	0.00	6	1.50	
<b>SUB TOTAL</b>			<b>125.00</b>	<b>31.25</b>	<b>12.00</b>	<b>3.00</b>	<b>22.00</b>	<b>5.50</b>	<b>38.00</b>	<b>9.50</b>	<b>25.00</b>	<b>6.25</b>	<b>28.00</b>	<b>7.00</b>	
<b>Name of Micro Watershed</b>	<b>Sitolijan MWS</b>														
<b>Name of Village</b>	<b>Jabrikuchi</b>														
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Goatry	NO	25000	4	1.00	0	0.00	0	0.00	0	0.00	4	1.00	0	0.00	
Poultry	NO	25000	5	1.25	0	0.00	0	0.00	5	1.25	0	0.00	0	0.00	
Duckery	NO	25000	6	1.50	0	0.00	2	0.50	0	0.00	4	1.00	0	0.00	
broiler Farm	NO	25000	6	1.50	4	1.00	0	0.00	0	0.00	0	0.00	2	0.50	
<b>Name of Micro Watershed</b>	<b>Sitolijan MWS</b>														
<b>Name of Village</b>	<b>Banbaria</b>														
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Goatry	NO	25000	4	1.00	0	0.00	0	0.00	0	0.00	4	1.00	0	0.00	
Poultry	NO	25000	5	1.25	0	0.00	0	0.00	4	1.00	0	0.00	1	0.25	
Duckery	NO	25000	6	1.50	0	0.00	2	0.50	0	0.00	4	1.00	0	0.00	
broiler Farm	NO	25000	6	1.50	0	0.00	0	0.00	0	0.00	6	1.50	0	0.00	
<b>Name of Micro Watershed</b>	<b>Sitolijan MWS</b>														
<b>Name of Village</b>	<b>Khankarpara</b>														

Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Goatry	NO	25000	4	1.00	0	0.00	4	1.00	0	0.00	0	0.00	0	0.00	
Poultry	NO	25000	5	1.25	0	0.00	5	1.25	0	0.00	0	0.00	0	0.00	
Duckery	NO	25000	6	1.50	0	0.00	0	0.00	4	1.00	2	0.50	0	0.00	
broiler Farm	NO	25000	6	1.50	0	0.00	0	0.00	0		6	1.50	0	0.00	
<b>Name of Micro Watershed</b>	<b>Sitolijan MWS</b>														
<b>Name of Village</b>	<b>Bara</b>														
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Goatry	NO	25000	4	1.00	0	0.00	0	0.00	0	0.00	4	1.00	0	0.00	
Poultry	NO	25000	5	1.25	2	0.50	3	0.75	0	0.00	0	0.00	0	0.00	
Duckery	NO	25000	6	1.50	0	0.00	4	1.00	0	0.00	2	0.50	0	0.00	
broiler Farm	NO	25000	6	1.50	0	0.00	0	0.00	6	1.50	0	0.00	0	0.00	
<b>Name of Micro Watershed</b>	<b>Sitolijan MWS</b>														
<b>Name of Village</b>	<b>Barbila</b>														
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Goatry	NO	25000	4	1.00	0	0.00	4	1.00	0	0.00	0	0.00	0	0.00	
Poultry	NO	25000	5	1.25	0	0.00	0	0.00	5	1.25	0	0.00	0	0.00	
Duckery	NO	25000	6	1.50	0	0.00	0	0.00	0	0.00	6	1.50	0	0.00	
broiler Farm	NO	25000	6	1.50	0	0.00	0	0.00	6	1.50	0	0.00	0	0.00	
<b>Name of Micro Watershed</b>	<b>Sitolijan MWS</b>														
<b>Name of Village</b>	<b>Barbila</b>														
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Goatry	NO	25000	4	1.00	0	0.00	3	0.75	1	0.25	0	0.00	0	0.00	
Poultry	NO	25000	5	1.25	0	0.00	0	0.00	2	0.50	3	0.75	0	0.00	
Duckery	NO	25000	6	1.50	0	0.00	0	0.00	0	0.00	6	1.50	0	0.00	
broiler Farm	NO	25000	6	1.50	0	0.00	0	0.00	6	1.50	0	0.00	0	0.00	
<b>SUB TOTAL</b>			<b>126.00</b>	<b>31.50</b>	<b>6.00</b>	<b>1.50</b>	<b>27.00</b>	<b>6.75</b>	<b>39.00</b>	<b>9.75</b>	<b>51.00</b>	<b>12.75</b>	<b>3.00</b>	<b>0.75</b>	

Name of Micro Watershed		Batikuriha MWS													
Name of Village		Batikuriha													
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Goatry	NO	25000	4	1.00	0	0.00	0	0.00	3	0.75	1	0.25	0	0.00	
Poultry	NO	25000	5	1.25	0	0.00	0	0.00	4	1.00	1	0.25	0	0.00	
Duckery	NO	25000	6	1.50	0	0.00	0	0.00	5	1.25	0	0.00	1	0.25	
broiler Farm	NO	25000	6	1.50	0	0.00	0	0.00	6	1.50	0	0.00	0	0.00	
Name of Micro Watershed		Batikuriha MWS													
Name of Village		Kaljahi													
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Goatry	NO	25000	4	1.00	0	0.00	4	1.00	0	0.00	0	0.00	0	0.00	
Poultry	NO	25000	5	1.25	0	0.00	0	0.00	5	1.25	0	0.00	0	0.00	
Duckery	NO	25000	6	1.50	2	0.50	0	0.00	0	0.00	4	1.00	0	0.00	
broiler Farm	NO	25000	6	1.50	0	0.00	0	0.00	6	1.50	0	0.00	0	0.00	
Name of Micro Watershed		Batikuriha MWS													
Name of Village		Sila													
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Goatry	NO	25000	4	1.00	4	1.00	0	0.00	0	0.00	0	0.00	0	0.00	
Poultry	NO	25000	5	1.25	0	0.00	4	1.00	0	0.00	0	0.00	1	0.25	
Duckery	NO	25000	6	1.50	4	1.00	2	0.50	0	0.00	0	0.00	0	0.00	
broiler Farm	NO	25000	6	1.50	6	1.50	0	0.00	0	0.00	0	0.00	0	0.00	
Name of Micro Watershed		Batikuriha MWS													
Name of Village		Omura (Gumura)													
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Goatry	NO	25000	4	1.00	0	0.00	3	0.75	0	0.00	1	0.25	0	0.00	
Poultry	NO	25000	5	1.25	2	0.50	2	0.50	0	0.00	1	0.25	0	0.00	
Duckery	NO	25000	6	1.50	3	0.75	3	0.75	0	0.00	0	0.00	0	0.00	

broiler Farm	NO	25000	6	1.50	3	0.75	3	0.75	0	0.00	0	0.00	0	0.00	
<b>Name of Micro Watershed</b>	<b>Batikuriha MWS</b>														
<b>Name of Village</b>	<b>Damal Jar</b>														
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Goatry	NO	25000	5	1.25	0	0.00	0	0.00	4	1.00	1	0.25	0	0.00	
Poultry	NO	25000	5	1.25	0	0.00	0	0.00	5	1.25	0	0.00	0	0.00	
Duckery	NO	25000	6	1.50	0	0.00	6	1.50	0	0.00	0	0.00	0	0.00	
broiler Farm	NO	25000	6	1.50	0	0.00	0	0.00	6	1.50	0	0.00	0	0.00	
<b>Name of Micro Watershed</b>	<b>Batikuriha MWS</b>														
<b>Name of Village</b>	<b>Bar Suha (Barsoha)</b>														
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Goatry	NO	25000	5	1.25	0	0.00	0	0.00	4	1.00	1	0.25	0	0.00	
Poultry	NO	25000	5	1.25	0	0.00	4	1.00	0	0.00	1	0.25	0	0.00	
Duckery	NO	25000	6	1.50	1	0.25	4	1.00	0	0.00	0	0.00	1	0.25	
broiler Farm	NO	25000	6	1.50	0	0.00	6	1.50	0	0.00	0	0.00	0	0.00	
<b>Name of Micro Watershed</b>	<b>Batikuriha MWS</b>														
<b>Name of Village</b>	<b>Suha Bil Daloni (Sohabil Daloni)</b>														
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Goatry	NO	25000	8	2.00	0	0.00	3	0.75	4	1.00	1	0.25	0	0.00	
Poultry	NO	25000	5	1.25	0	0.00	0	0.00	4	1.00	1	0.25	0	0.00	
Duckery	NO	25000	6	1.50	0	0.00	0	0.00	0	0.00	6	1.50	0	0.00	
broiler Farm	NO	25000	6	1.50	0	0.00	3	0.75	3	0.75	0	0.00	0	0.00	
<b>Name of Micro Watershed</b>	<b>Batikuriha MWS</b>														
<b>Name of Village</b>	<b>Dakreswar</b>														
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Goatry	NO	25000	8	2.00	0	0.00	0	0.00	7	1.75	1	0.25	0	0.00	
Poultry	NO	25000	5	1.25	0	0.00	0	0.00	4	1.00	1	0.25	0	0.00	

Duckery	NO	25000	6	1.50	0	0.00	0	0.00	6	1.50	0	0.00	0	0.00	
broiler Farm	NO	25000	6	1.50	0	0.00	0	0.00	6	1.50	0	0.00	0	0.00	
<b>SUB TOTAL</b>			<b>178.00</b>	<b>44.50</b>	<b>25.00</b>	<b>6.25</b>	<b>47.00</b>	<b>11.75</b>	<b>82.00</b>	<b>20.50</b>	<b>21.00</b>	<b>5.25</b>	<b>3.00</b>	<b>0.75</b>	
<b>Name of Micro Watershed</b>	<b>Guma MWS</b>														
<b>Name of Village</b>	<b>Belortari</b>														
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Goatry	NO	25000	5	1.25	0	0.00	0	0.00	4	1.00	1	0.25	0	0.00	
Poultry	NO	25000	5	1.25	0	0.00	0	0.00	5	1.25	0	0.00	0	0.00	
Duckery	NO	25000	6	1.50	0	0.00	0	0.00	5	1.25	0	0.00	1	0.25	
broiler Farm	NO	25000	6	1.50	0	0.00	0	0.00	6	1.50	0	0.00	0	0.00	
<b>Name of Micro Watershed</b>	<b>Guma MWS</b>														
<b>Name of Village</b>	<b>Khapan Baria Bhitha</b>														
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Goatry	NO	25000	5	1.25	0	0.00	0	0.00	0	0.00	5	1.25	0	0.00	
Poultry	NO	25000	5	1.25	0	0.00	0	0.00	0	0.00	5	1.25	0	0.00	
Duckery	NO	25000	6	1.50	0	0.00	0	0.00	0	0.00	5	1.25	1	0.25	
broiler Farm	NO	25000	6	1.50	0	0.00	0	0.00	0	0.00	6	1.50	0	0.00	
<b>Name of Micro Watershed</b>	<b>Guma MWS</b>														
<b>Name of Village</b>	<b>Bar Ghol</b>														
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Goatry	NO	25000	5	1.25	0	0.00	0	0.00	0	0.00	5	1.25	0	0.00	
Poultry	NO	25000	5	1.25	0	0.00	0	0.00	0	0.00	5	1.25	0	0.00	
Duckery	NO	25000	6	1.50	0	0.00	0	0.00	5	1.25	0	0.00	1	0.25	
broiler Farm	NO	25000	6	1.50	0	0.00	6	1.50	0	0.00	0	0.00	0	0.00	
<b>Name of Micro Watershed</b>	<b>Guma MWS</b>														
<b>Name of Village</b>	<b>Kachari Para</b>														
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	

Goatry	NO	25000	5	1.25	0	0.00	0	0.00	5	1.25	0	0.00	0	0.00	
Poultry	NO	25000	5	1.25	0	0.00	0	0.00	4	1.00	0	0.00	1	0.25	
Duckery	NO	25000	6	1.50	0	0.00	0	0.00	5	1.25	1	0.25	0	0.00	
broiler Farm	NO	25000	6	1.50	0	0.00	0	0.00	6	1.50	0	0.00	0	0.00	
<b>Name of Micro Watershed</b>	<b>Guma MWS</b>														
<b>Name of Village</b>	<b>Pajar Bhanga</b>														
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Goatry	NO	25000	8	2.00	0	0.00	0	0.00	4	1.00	4	1.00	0	0.00	
Poultry	NO	25000	5	1.25	0	0.00	0	0.00	5	1.25	0	0.00	0	0.00	
Duckery	NO	25000	6	1.50	0	0.00	0	0.00	0	0.00	5	1.25	1	0.25	
broiler Farm	NO	25000	6	1.50	0	0.00	4	1.00	0	0.00	2	0.50	0	0.00	
<b>Name of Micro Watershed</b>	<b>Guma MWS</b>														
<b>Name of Village</b>	<b>Bar Baradi</b>														
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Goatry	NO	25000	8	2.00	0	0.00	0	0.00	8	2.00	0	0.00	0	0.00	
Poultry	NO	25000	8	2.00	0	0.00	0	0.00	7	1.75	1	0.25	0	0.00	
Duckery	NO	25000	6	1.50	0	0.00	0	0.00	0	0.00	4	1.00	2	0.50	
broiler Farm	NO	25000	6	1.50	0	0.00	0	0.00	6	1.50	0	0.00	0	0.00	
<b>Name of Micro Watershed</b>	<b>Guma MWS</b>														
<b>Name of Village</b>	<b>Balapara</b>														
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Goatry	NO	25000	7	1.75	0	0.00	0	0.00	7	1.75	0	0.00	0	0.00	
Poultry	NO	25000	5	1.25	0	0.00	0	0.00	0	0.00	5	1.25	0	0.00	
Duckery	NO	25000	6	1.50	0	0.00	0	0.00	0	0.00	6	1.50	0	0.00	
broiler Farm	NO	25000	6	1.50	0	0.00	0	0.00	3	0.75	3	0.75	0	0.00	
<b>Name of Micro Watershed</b>	<b>Guma MWS</b>														
<b>Name of Village</b>	<b>Tarabari</b>														
Name of Intervention	Unit	Rate (in	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year		

		INR)	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Goatry	NO	25000	8	2.00	0	0.00	0	0.00	7	1.75	1	0.25	0	0.00	
Poultry	NO	25000	5	1.25	0	0.00	0	0.00	0	0.00	5	1.25	0	0.00	
Duckery	NO	25000	8	2.00	0	0.00	0	0.00	0	0.00	8	2.00	0	0.00	
broiler Farm	NO	25000	8	2.00	0	0.00	0	0.00	6	1.50	2	0.50	0	0.00	
<b>Name of Micro Watershed</b>	<b>Guma MWS</b>														
<b>Name of Village</b>	<b>Guma (Goma)</b>														
Name of Intervention	Unit	Rate (in INR)	TOTAL		1st Year		2nd Year		3rd Year		4th Year		4th Year		
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Goatry	NO	25000	5	1.25	0	0.00	0	0.00		0.00	5	1.25	0	0.00	
Poultry	NO	25000	5	1.25	0	0.00	0	0.00	0	0.00	5	1.25	0	0.00	
Duckery	NO	25000	8	2.00	0	0.00	0	0.00	0	0.00	7	1.75	1	0.25	
Cycle Repairing	NO	26100	1	0.26	0	0.00	0	0.00	1	0.26	0	0.00	0	0.00	
broiler Farm	NO	25000	7	1.75	0	0.00	2	0.50	2	0.50	2	0.50	1	0.25	
<b>SUB TOTAL</b>			<b>220.00</b>	<b>55.01</b>	<b>0.00</b>	<b>0.00</b>	<b>12.00</b>	<b>3.00</b>	<b>101.00</b>	<b>25.26</b>	<b>98.00</b>	<b>24.50</b>	<b>9.00</b>	<b>2.25</b>	
<b>GRAND TOTAL</b>			<b>649.00</b>	<b>162.26</b>	<b>43.00</b>	<b>10.75</b>	<b>108.00</b>	<b>27.00</b>	<b>260.00</b>	<b>65.01</b>	<b>195.00</b>	<b>48.75</b>	<b>43.00</b>	<b>10.75</b>	