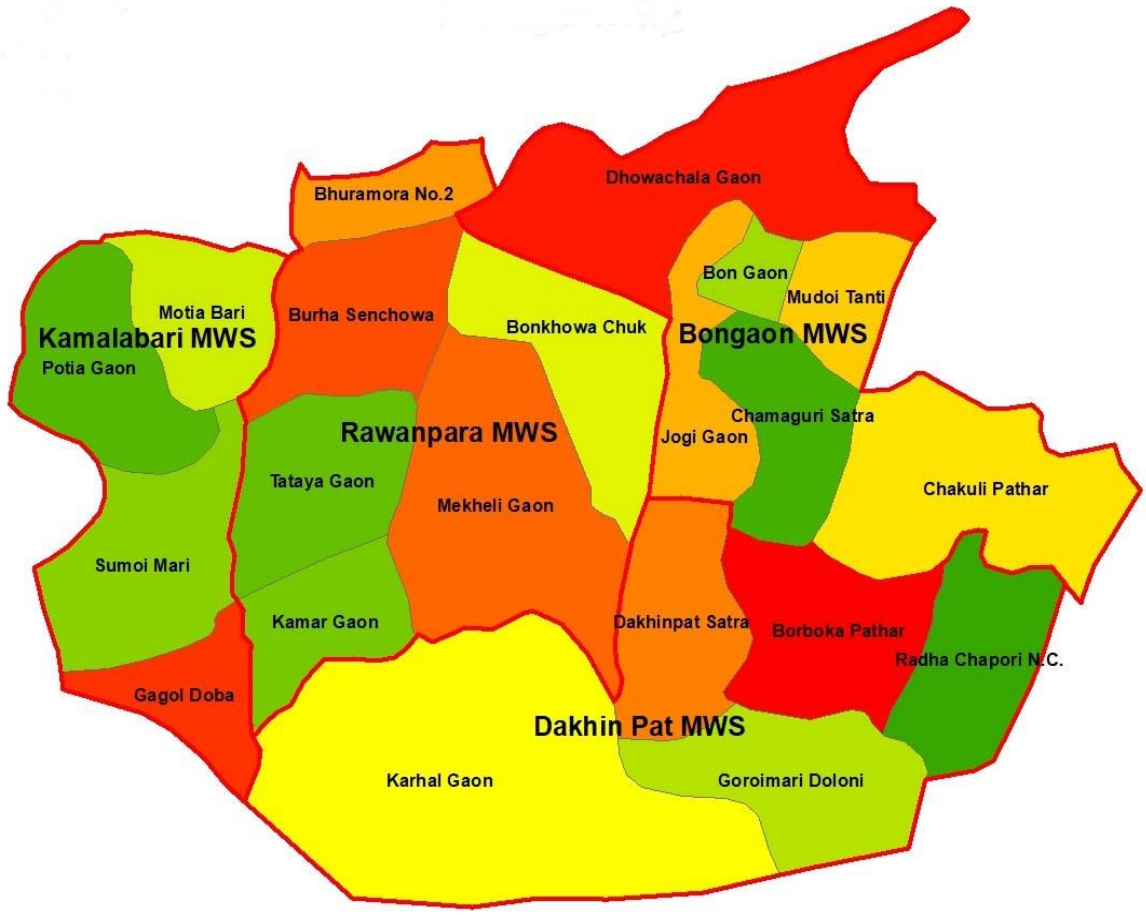
DETAILED PROJECT REPORT
MAJULI – I / 2021-22 (LOWER TUNI)
WDC-PMKSY 2.0



Prepared by

Project Manager
WCDC, WDC-PMKSY 2.0 Majuli
Divisional Officer
Majuli Soil Conservation Division
Majuli

DETAILED PROJECT REPORT OF WDC-PMKSY 2.0
(MAJULI – I / 2021-22 (LOWER TUNI)

Micro Watershed & Micro Watershed Code No.	:	Kamalabari MWS $3B3C1d_{v}$
	:	Rawanpara MWS $3B3C1d_{vi}$
	:	Bongaon MWS $3B3C1d_{vii}$
	:	Dakhin Pat MWS $3B3C1d_{viii}$
WDC-PMKSY Project	:	MAJULI – I / 2021-22 (LOWER TUNI)
Block	:	Majuli
District	:	Majuli
Name of PIA	:	Divisional Soil Conservation Officer, Majuli Soil Conservation Division, Majuli, Assam

Content

Executive Summary 5-7

CHAPTER -1

INTRODUCTION AND BACKGROUND

INTRODUCTION 8-10

Profile of the Watershed Project 11-12

Table No. 1.1: Project at a Glance 12

Table No. 1.2: Need and Scope of Watershed Development 13-14

Table No. 1.3: Watershed Information 15

Table No. 1.4: Status of other development project in the area 16

Table No. 1.5: Status of Previous Watershed Programme 16

CHAPTER -2

General Description of the Project Area

Table No.2.1: Location/ Details of the type of areas covered under the project 17-18

Table No.2.2: Land Details 19

Table No.2.3: Details of the types of areas covered under the project 20

Table No.2.4: Details of Agro-climatic condition 21

Table No.2.5: Details of flood and drought in the project area 22

Table No.2.6: Details of the soil erosion in the project area 22

Table No.2.7: Details of Soil Ph 23

Table No.2.7.1: Climatic Condition 24

Table No.2.8: Physiographic Features 24

Table No.2.9: Watershed characteristic 24

CHAPTER 3

BASE LINE INFORMATION OF WATERSHED

Table No.3.1: Demographic features 25

Table No.3.2: Livestock details 26

Table No.3.3: Socio-economic status 27

Table No.3.4: Migration details 27

Table No.3.5: Details of Community Based Organization existing in the watershed area 28

Table No.3.6: Infrastructure Facilities 29

Table No.3.7: Land Use Pattern (in Hectares) 30

Table No.3.8: Details of Common Property Resources 31

Table No.3.9: Agriculture implements 31

Table No.3.10: Crop Classification 31
Table No.3.11: Crop and Cropping pattern 32
Table No.3.12: Land Capability Classification 32
Table No.3.13: Irrigation Facility 33
Table No.3.14: Status of water table 33
Table No.3.15: Assessment of drinking water facility 34
Table No.3.16: Surface water resource 34
Table No.3.17: Ground water Structures to be repaired 34
Table No. 3.18: Existing Water Saving Practices 35
Table No. 3.19: Details of existing livelihoods 35
Table No. 3.20: Existing functional assets (Works already completed under different schemes including works undertaken by farmers independently) 35
Table No.3.21: Problem Typology Of The Watershed 36-37

CHAPTER – 4

Institutional Building and Project Management:

Table No. 4.1: Details of SHGs & UGs newly formed under IWMP 38
Table No. 4.2: Details of Watershed Committees (WC) 39-42
Table No. 4.3: WDT Particulars: 43
Table No. 4.4: PIA particulars 44
Table No. 4.5: Bank Account Details 44
Table No. 4.6: Institutional Mechanisms: (Enclose the following documents) 45-46
Table No. 4.7: Documents of Agreements: 47-49
Table No. 4.8: Convergence plan with IWMP 50

CHAPTER – 5

Management/Action Plan

Table No.5.1: Description on methodology of plan adopted 51-52
Table No.5.2: Details of Natural Resource Management Activities
Table No. 5.2.1: Soil and Moisture Conservation structures 53-54
Table No. 5.2.2: Water Harvesting Structures 55
Table No. 5.2.3: Vegetative Covers 56
Table No. 5.3: Structure or Activity Wise Details of Engineering Structure and Vegetative Measures 57-58
Table No.5.3.1: Engineering structures for Soil Conservation Measures (SMC)
Table No. 5.3.2: Details of engineering structure for water Harvesting WHS 59
Table No. 5.3.3: Details of activities connected with vegetative cover in watershed works 60

CHAPTER 6

Capacity Building Plan

Table No. 6.1: Details of Capacity Building 61

CHAPTER 7

Table No. 7.1: Phasing of the action plan 62-68

Table No. 7.2: Estimated Benefit Cost Ratio 69

CHAPTER 8

Consolidation and completion of various works

Table No. 8.1: Consolidation of Action Plan 70

CHAPTER – 9

EXPECTED OUTCOMES

Table No. 9.1: Describe in detail the "Expected Outcomes" 71

Table No. 9.2: Summarize in the table given below (Quantifiable indicators) 71-72

Table No.9.3: Backward and Forward Linkages 73

CHAPTER –10

Table No.10: Area taken up for Treatment 74

PHOTOGRAPHS

Photo of Socio-Economic Survey 75

Photo of Watershed Committee Formation 76

Photo of PRA -Exercise 77

PRA – Maps 78

The Project Site Survey 79

LIST OF MAPS TO BE ENCLOSED ALONG WITH DPR

Location map 80

Watershed map 81

Village map 82

Drainage map 83

Land Use/Land Cover map 84

Slope map 85

Contour map 86

DEM 87

Flow Accumulation 88

Soil map 89

Satellite map 90

Annual Action Plan Map (Intervention Map) 91

Executive Summary of DPR Majuli-I (Lower Tuni) WDC-PMKSY 2.0 / 2021-22 Majuli District, Assam.

Brief about area:

The Majuli-I (Lower Tuni) WDC-PMKSY 2.0 having watershed code 3B3C1d in an area of 5484.00 Hact. and treatable area 4600.00 Hact., covers Dhowachala Gaon , Bhuramora No.2, Jogi Gaon, Bon Gaon, Bonkhowachuk, Motiabari, Mudoi Tanti, Potia Gaon, Chamaguri Satra, Mekheli Gaon,Chakuli Pathar,Tataya Gaon, Sumoimari, Borboka Pathar,Kamar Gaon, Radha Chapori N.C., Gagol Doba, Karhal Gaon, Goroimari Doloni, Burha Senchowa, Dakhinpat Satra villages of Kamalabari, Rawanapara, Rangachahi, Bongaon and Dhakinpat panchayats under Majuli block of Majuli district. It has 4640 families with a total population of 24220. The Schedule Tribe (ST), Schedule Caste (SC), Other Backward Caste (OBC) and others communities are residing in the area and constitute 11.41%, 36.86% and 51.73% (OBC and others combined) of total population respectively. More than 70% of the total families falls under the economically poor category. Male and female literacy is respectively 56.61% and 56.08% in the area. The percentage of landless, marginal, small and large farmers stands at 3.15%, 54.66%, 15.93% and 0.32% respectively. The watershed falls in the upper Brahmputra valley zone having very gentle slope. Due to heavy rainfall in rainy season there is some erosion in the form of sheet/gully erosion. This type of erosion has occurred due to heavy downpour and the rivers water carrying capacity reaches to maximum hence a constant thrust is felt by the land masses. In due course the sheet/gully erosion occurs. Due to very gentle slope this activity takes a longer duration. Nearly 15 tonnes/Hact./year is lost as soil erosion. The area is, having agriculture lands of moderate productivity; prevalence of wide spread poverty, lack of irrigation and safe drinking water facility and compelled unskilled migration from the area. Integrated Watershed Management Programme aims at improving the situation of the area during the project period 2021-2026. Integrated Watershed Management Programme is prioritized on the basis of thirteen parameters namely Poverty Index, Percentage of SC/ST, Actual wages, Percentage of small and marginal farmers, Ground water status, Moisture Index, Area under rain fed agriculture, Drinking water situation in the area, Percentage of the degraded land, Productivity potential of the land, Continuity of another watershed that has already developed/treated, Cluster approach for plain or for hilly terrain. Based on these thirteen parameters a composite point 80.00 was given to Majuli-I (Lower Tuni) WDC-PMKSY 2.0 project as given in table 1.2.

Institutional arrangement:

Deptt. of Soil-Conservation would take charge of all the relevant issues in the watershed area. PIA would promote Self-Help Groups; develops natural resources and locally suitable economic activities; mobilizes finances; and introduces systems to improve livelihoods of the rural poor and sustain their progress. Currently, it has several professionals and technical & support staffs. It would collaborate extensively with government agencies, banks, market institutions, panchayats, other voluntary organisations, and research bodies. Deptt of soil conservation has long standing experience in natural resource management projects, watershed and livelihood related programmes in Assam. The project would be implemented by the community-based organization (CBO) either existed or promoted during the project.

Period Commonly known CBO would be Women Self Help Group (SHG), User Group (UG), Watershed Committee (WC), Producers Collectives, etc. It is targeted to form new SHG and to improve their capacity building. At watershed level, a watershed committee would be formed and thus become operational. Overall, more than 80% of the watershed families are going to take part and contribute in the watershed processes and programmes in various institutional form.

Salient Project Activities:

Considering the context, baseline data analysis, PRA exercises, activities under Entry Point Activity (EPA), natural resource management (NRM) plan, livelihood development plan, productivity enhancement plan and capacity building plan has been prepared. Major proposed activities under EPA are which would cost 2% of the whole budget i.e.Rs.20.24 lakhs. Horticulture, agro-forestry, water harvesting tanks, renovation of ponds, earthen check dams, nala bund, etc. are the activities under NRM plan which covers 80% of project families cost 47% of the budget amounting Rs. 475.64 lakhs. The key focuses of these activities are predominantly to conserve soil and recharge the moisture regime of the area through centralize and decentralize structures. Diary, poultry, duckery, piggery, fishery, weaving, goat rearing and banana plantation are under Production System plans for the 70% of landless and marginalized families which is 15% of the budget amounting of Rs. 151.80 lakhs. Similarly diary, poultry, duckery, piggery, weaving, goat rearing, carpentry and cycle repairing are under Livelihood Activities which is 15% of the budget amounting 151.80 lakhs. The farmer's would generate contribution both for livelihood activities and micro-enterprises.

A comprehensive training and capacity building plan covering about 400 families (with overlaps) would capacitate during the project period. The entire proposed plan would be implemented by Watershed Committee in close coordination with SHGs and UGs under the facilitation of PIA.

Physical target and financial outlay:

The details of physical target and financial outlay is under chapter-5,6,7 and 8.reatment area and datails: The details of treatment area is in Table 1.1 and 2.2 Fact sheet about bench mark indicator and action plan at a glance: The bench mark indicator is in chapter-9 and action plan in chapter-5, 6, 7 and 8.

INTRODUCTION AND BACKGROUND

(I) INTRODUCTION

Name of the State	: Assam
Name of the District	: Majuli
Names of the Blocks	: Majuli
Name of the project	: MAJULI – I/2021-22 (LOWER TUNI)
Financial Year of sanction	: 2021-22
Project duration	: From 2021-22 to 2025-26

Map of the project area showing village boundaries, contours and drainage. (Page 80 to 87)

Background Note of the District of Majuli:

The Majuli District in which the Majuli-I (Lower Tuni) WDC-PMKSY 2021-22 falls in the South East corner of the state and is a river island of Brahmaputra. The Majuli district is a plain district of Assam. The soil of Majuli district mostly of two types inceptisol (Old alluvial) and Entisol (recent alluvial).

Agricultural scenario:-

Agriculture is the main occupation in the district and contributes a major parts of district economy which however is a subsistence type. Sali (winter) paddy is the main crop in the district under rainfed condition Jute, banana, potato, vegetables, pineapple, turmeric, ginger etc. are also important crops. The district is surplus in production of oilseeds, fruits and spices while it is measurably deficit in pulses, milk, meat, egg and fish production. There are tremendous scope for horticultural crops, plantation crops, animal husbandry and sericulture in the district.

Soil:-

The two orders of soils are found in the district namely (i) Entisols (recent alluvium), (ii) Inceptions (old alluvium). The soil of zone is mostly acidic nature and Ph increases near the river track. The organic carbon and available Nitrogen of the soil mostly varies from medium to high, low in available P2O5 and medium in K2 O status). Mild micronutrient deficiency specially of Boron has been observed in some areas throughout the district. However, in general, soil of the district is acidic in reaction. Soil of major areas are mildly acidic (5.5-6.5 PH), while soil in high land old alluvial is severely acidic. There is a problem of riverbank erosion in the riverine tracts, especially during flood season.

Climate and Soil :–

The Majuli district lays between longitudes 93°57'30" to 94°33'30" and latitudes 26°50'25" to 27°11'15". The district has a sub- tropical humid type of climate, with the relative humidity varying from 91% to 93% during the morning hours and from 51% to 72% during the afternoons. The climate of the place can be divided into three main seasons- summer, monsoon and winter. The average annual rainfall is 1823 mm out of which 75% is received during monsoon months (June to September). The monsoon months are wet and winter is dry. Both pre and post monsoon months have unpredicted and erratic rainfall. The mean maximum and minimum temperature varies from 33 to 38 C and 9 to 10 C, respectively. The average radiation is the highest during March – April, while overcast sky reduces the solar radiation to the least during July.

The soil of Majuli district moistly of two types inceptisol (Old alluvial) and Entisol (recent alluvial).The texture of surface soil ranges from Fine loamy, coarse silty and fine soil. 58% of total are categorized under fine loamy soil under Incept sol. The most typical characteristic of the soil of the district is its acidity. The major part of the soils of Majuli district is acidic in nature. The organic matter content of soil is medium to high. The available N is medium and available P and K is low to medium.

The climate is sub-tropical in nature with warm and humid summer followed by dry and cool winter. The climatic season is classified as follows

Winter (b) pre-monsoon, (c) monsoon and (d) retreating monsoon.

WINTER:

The winter covers the months of December, January and February. In this season, fair weather prevails occasionally associated with fogs and haze. December and January are the driest months and January is the coldest. The minimum temperature ranges between 8 C and 10 C and the maximum between 27 C and 29 C. The average rainfall in the season is 20 cm.

PRE-MONSOON:

The months of March, April and May constitute the pre-monsoon season. From March the land surface gets steadily heated and the temperature starts rising. Strong convection develops due to the local depressions formed especially in the afternoon. The nor 'westers locally called Bordoichilla appears during the period. Rainfall ranges between 59 and 160 cm and maximum temperature ranges between 28 C and 32 C. This season is, in fact, a transitional phase between the dry cool winter and the warm moist monsoon.

MONSOON:

With the onset of monsoon in early June, heavy rainfall occurs. Widespread low clouds and high humidity together maintain almost uniform temperature over the area. The

maximum temperature ranges between 33 C and 37 C. The average annual rainfall during the period is 300 cm. The occurrence of thunderstorms is the most conspicuous characteristics of the monsoon weather. This is the season of dominant agricultural operation in the area.

RETREATING MONSOON:

The monsoon withdraws from the area in the last week of September or first week of October. The geographic low is replaced by high pressure and a flat pressure gradient occurs. Rainfall decreases abruptly and the sky becomes progressively clear. Sunny days prevail till the end of November. The CWB climate thus has a profound influence on the economy and life of the people of the area. It is most suitable for the cultivation of a variety of grain and horticultural crops.

Rainfall data analysis for the area:

GROUND WATER POTENTIALITY: -

The depth of ground water table plays an important role in determining the risk due to contamination to groundwater. Like the surface water bodies, the pressure on the ground water is increasing in the watershed area. Ground water occurs under phreatic condition in the shallow aquifer zone and under semi-confined condition in the deeper aquifer. Flow of ground water is from north to south. Pre-monsoon water level varies from 0.01 to 9.40 mbgl and during post-monsoon period, water level varies from 0.56 to 8.26 mgbl. Other than higher arsenic (As) and iron (Fe) concentration in ground water, most of the chemical constituents are within the permissible limit.

(II) PROFILE OF THE WATERSHED PROJECT

Table No.1.1 Project at a glance:

1	**Name of State**	Assam
2	**Name of the Project**	MAJULI – I/2021-22 (LOWER TUNI)
3	**Name of the District**	Majuli
4	**Name of the Block**	Majuli
5	**Name of Gram Panchayat**	1.Kamalabari 2.Rawanapara 3.Rangachahi 4.Bongaon 5.Dhakinpat

Table No.1.1 Project at a glance:

		MWS	Name of Village	Census Code	Block Name	GP Name
6	Names & Census Code of Villages covered	**Kamalabari MWS 3A5A1g1**	Sumoi Mari	1860000	Majuli	Kamalabari
			Potia Gaon	1859600	Majuli	Kamalabari
			Gagol Doba	1860200	Majuli	Kamalabari
			Motia Bari	1860500	Majuli	Kamalabari
		Rawanpara MWS 3A5A1g3	Tataya Gaon	1861700	Majuli	Rawnapara
			Bhuramora No.2	1862600	Majuli	Rangachahi
			Burha Senchowa	1860400	Majuli	Rawnapara
			Kamar Gaon	1861900	Majuli	Rawnapara
			Bonkhowa Chuk	1862500	Majuli	Rawnapara
			Mekheli Gaon	1862400	Majuli	Rawnapara
		Bongaon MWS 3A5A1g5	Dhowachala	1863800	Majuli	Bongaon
			Jogi Gaon	1862200	Majuli	Bongaon
			Chamaguri Satra	1861800	Majuli	Bongaon
			Chakuli Pathar	1864500	Majuli	Bongaon
			Mudoi Tanti	1863900	Majuli	Bongaon
			Bon gaon	1862300	Majuli	Bongaon
		Dakhin Pat MWS 3A5A1g2	Karhal Gaon	1861900	Majuli	Rawnapara
			Dakhinpat Satra	1860100	Majuli	Dakhinpat
			Borboka Pathar	1864700	Majuli	Dakhinpat
			Radha Chapori N.C.	1859900	Majuli	Dakhinpat
			Goroimari Doloni	1862000	Majuli	Dakhinpat
7	Four major reasons for selection of watershed	1. Upliftment of Socio-Economic condition of the rural poor. 2. Increase of Agricultural area as well as Production. 3. Generation of employment opportunities to the rural people. 4. Conservation and Proper utilization of Natural Resources.				
8	Name, Address, Phone No. and Registration No.of the PIA(s)	Divisional Officer, Majuli Soil Conservation Division, Majuli, Assam (9085757345/9854450561)				
9	Date of approval of Watershed Development Plan by the DPC	-				
10	Area of the Project (ha.)	**5484.00**				
11	Area proposed to be treated (ha.)	**4600.00**				
12	Financial year of sanction	**2021-22**				
13	Project duration	**5 years**				
14	Project Cost (Rs. in Lakhs)	**1012.00**				
15	Date of sanction by the State Authority	**04-01-2022**				
16	Date of release of 1st installment of Central Assistance (to be filled up by DoLR)	**23/2/2022**				
17	Any other (please specify)					

Source: From Field Survey

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

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

Name of the project	Type of project (Hilly/ Desert/ Others)	Weightage under the criteria#													
		i	ii	iii	iv	v	vi	vii	viii	ix	x	xi	xii	xiii	**Total**
Majuli-I/2021-22 (Lower-Tuni)	**Others**	7.5	5	5	5	0	0	10	7.5	10	10	10	10	-	**80**

Source: From Field Survey

As per PPR:-

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

Sl. No	Criteria	Max Score	Ranges and Scores			
xi	Contiguity to another watershed that has already been developed/treated	10	Contiguous to previously treated watershed & contiguity within the micro watersheds in the project (10)	Contiguity with in the micro watersheds in the project but non contiguous to previously treated watershed (5)	Neither contiguous to previously treated watershed nor contiguity within the micro watersheds in the project (0)	
xii	Cluster approach in the plains (more than one contiguous micro-watersheds in the project)	15	Above 6 micro-watersheds in cluster (15)	4 to 6 micro watersheds in cluster (10)	2 to 4 micro watersheds in cluster (5)	
xiii	Cluster approach in the hills (More than one contiguous micro-watersheds in the project)	15	Above 5 micro-watersheds in cluster (15)	3 to 5 micro watersheds in cluster (10)	2 to 3 micro watersheds in cluster (5)	
	Total	**150**	**150**	**90**	**41**	**2.5**

Table No.1.3 Watershed Information:-

Name of Project	Watershed Code	Sl. NO	Village to be treated	Geographical Area (Hact)	Treatable Area (Hact.)	Approval Year
Majuli-I(Lower Tuni)WDC-PMKSY/2021-22	**Kamalabari MWS 3A5A1g1**	**1**	Sumoi Mari	126.00	106.10	2021-22
		2	Potia Gaon	338.00	230.80	
		3	Gagol Doba	179.00	154.20	
		4	Motia Bari	290.00	246.80	
	Rawanpara MWS 3A5A1g3	5	Tataya Gaon	346.00	300.00	
		6	Bhuramora No.2	175.00	152.70	
		7	Burha Senchowa	214.00	173.20	
		8	Kamar Gaon	267.00	235.40	
		9	Bonkhowa Chuk	221.00	190.90	
		10	Mekheli Gaon	319.00	292.70	
	Bongaon MWS 3A5A1g5	11	Dhowachala Gaon	500.00	461.90	
		12	Jogi Gaon	147.00	126.10	
		13	Chamaguri Satra	137.00	25.00	
		14	Chakuli Pathar	243.00	211.50	
		15	Mudoi Tanti	127.00	95.60	
		16	Bon gaon	181.00	157.00	
	DakhinPat MWS 3A5A1g2	17	Karhal Gaon	147.00	124.00	
		18	Dakhinpat Satra	120.00	97.50	
		19	Borboka Pathar	254.00	218.00	
		20	Radha Chapori N.C.	843.00	759.40	
		21	Goroimari Doloni	310.00	241.20	
Total				**5484.00**	**4600.00**	

Source: GIS

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

Sl. No	Name of the programme /scheme	Sponsoring agency	Objectives of the programme /scheme	Year of commencement	Villages covered	Estimated number of beneficiaries
1	Construction of Development and Beautification at Doria Lake	MGNREGA	Development of environment & to maintain ecological balance	2019-20	Doria Gaon	210
2	Renovation and Development of Majuli Thana Campus pond	MGNREGA	For beautification.	2020-21	Kamalabari	230
3	Land Development of Sankar Dev. Sisu Niketan at Rawanapara	MGNREGA	For infrastructure development.	2020-21	Rawanapar Samuguri	180
4	Agri Bund from Rawanaghar to Ujani Kanda Road	MGNREGA	For water conservation.	2020-21	Rawanapar	190
5	Land Development of College Colony Part-1	MGNREGA	For infrastructure development.	2020-21	Bongaon	234
6	Raise Plat Form at Kamjan Elengi	MGNREGA	For shelter during flood	2020-21	Bon Gaon	275
7	Raise Plat Form at Bamubari Dakhinpat	MGNREGA	For shelter during flood	2020-21	Dhakinpath	243
8	Fishery with Plantation at Sri Sri Dhakinpath Satra	MGNREGA	Income generation of the Satra and beautification.	2021-22	Dhakinpath	70

Source: Zilla Parishad, Majuli

Table No.1.5: Status of previous watershed programme:

Sl. No.	Project Name	Year started	Name of village	No. of Micro watershed	Watershed code	Area under treatment	Funding source	Nodal Agency	PIA	Total Cost	Expenditure incurred up to start of New Generation PMKSY	% financial completion	% physical completion
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Nil													

CHAPTER-2

GENERAL DESCRIPTION OF THE PROJECT AREA

Table No.2.1 Location

Longitude	94º12’20” to 94º19’30”
Latitude	26º53’30” to 26º58’30”
Name of the State	Assam
Name of the District	Majuli
Name of the Sub-Division	Majuli
Names of the Blocks	Majuli
Names of Gram Panchayats	1. Kamalabari 2. Rawanapara 3. Rangachahi 4. Bongaon 5. Dhakinpat
Villages	Sumoi Mari
	Potia Gaon
	Gagol Doba
	Motia Bari
	Tataya Gaon
	Bhuramora No.2
	Burha Senchowa
	Kamar Gaon
	Karhal Gaon
	Bonkhowa Chuk
	Mekheli Gaon
	Pohumara
	Dhowachala Gaon
	Jogi Gaon
	Chamaguri Satra
	Chakuli Pathar
	Mudoi Tanti
	Bon gaon
	Dakhinpat Satra
	Borboka Pathar
	Radha Chapori N.C.
	Goroimari Doloni
Approach Road	The area is approachable via Kamalabari and Phulani. The villages are interlinked by both katcha and pakka road.

Source: From PPR

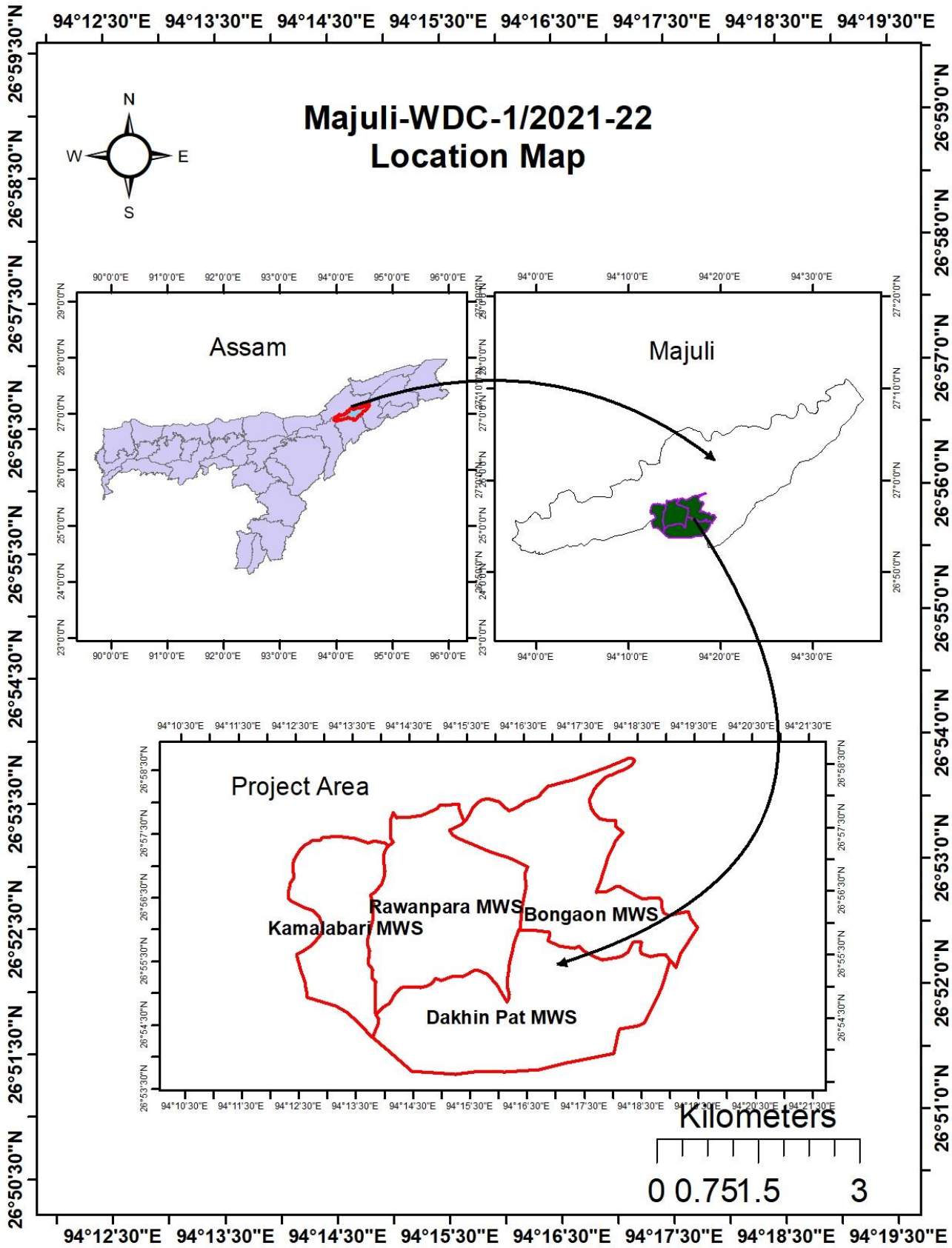

Majuli-WDC-1/2021-22
Location Map
N
W
E
S
Assam
Majuli
Project Area
Rawanpara MWS
Bongaon MWS
Kamalabari MWS
Dakhin Pat MWS
Kilometers
0 0.751.5 3

Table No.2.2 Land Details (Area in Ha.):-

1	2	3	4	5	6	7	8		9
Sl. No.	Names of villages	Geographical Area of the village (Ha.)	Forest Area (Ha.)	Land under agricultural use (Ha.)	Rainfed area (Ha.)	Permanent pastures (Ha.)	Wasteland		Treatable Area (Ha.)
							Cultivable (Ha.)	Non-cultivable (Ha.)	
1	Dhowachala Gaon	500.00	0.00	435.40	459.20	1.20	2.70	60.70	461.90
2	Bhuramora No.2	175.00	0.00	160.60	146.60	0.50	6.10	7.80	152.70
3	Jogi Gaon	147.00	0.00	135.60	125.00	7.00	1.10	3.30	126.10
4	Bon Gaon	181.00	0.00	152.60	150.80	0.80	6.20	21.40	157.00
5	Bonkhowa Chuk	221.00	0.00	177.30	183.10	1.90	7.80	34.00	190.90
6	Motia Bari	290.00	0.00	283.80	245.00	1.00	1.80	3.40	246.80
7	Mudoi Tanti	127.00	10.00	76.60	90.00	0.90	5.60	33.90	95.60
8	Potia Gaon	338.00	0.00	255.30	224.00	0.00	6.80	75.90	230.80
9	Chamaguri Satra	137.00	0.00	34.90	18.00	2.00	7.00	93.10	25.00
10	Mekheli Gaon	319.00	0.00	305.00	288.20	1.00	4.50	8.50	292.70
11	Chakuli Pathar	243.00	0.00	213.00	208.60	0.50	2.90	26.60	211.50
12	Tataya Gaon	346.00	0.00	320.10	296.90	0.70	3.10	22.10	300.00
13	Sumoi Mari	126.00	0.00	103.60	96.60	1.00	9.50	11.90	106.10
14	Borboka Pathar	254.00	0.00	237.20	212.60	4.10	5.40	7.30	218.00
15	Kamar Gaon	267.00	0.00	225.60	227.30	0.00	8.10	33.30	235.40
16	Radha Chapori N.C.	843.00	0.00	804.00	754.20	0.00	5.20	33.80	759.40
17	Gagol Doba	179.00	0.00	162.10	147.50	1.00	6.70	9.20	154.20
18	Karhal Gaon	147.00	0.00	101.00	119.00	3.00	5.00	38.00	124.00
19	Goroimari Doloni	310.00	0.00	228.70	234.20	0.00	7.00	74.30	241.20
20	Burha Senchowa	214.00	0.00	185.00	167.90	3.00	5.30	20.70	173.20
21	Dakhinpat Satra	120.00	0.00	90.00	87.50	0.00	10.00	20.00	97.50
Total		5484.00	10.00	4687.40	4482.20	29.60	117.80	639.20	4600.00

Source: From PPR

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

1	2	3				
S. No.	Names of villages	No. of beneficiaries covered				
		MF	SF	LF	Landless	Total
1	Bhuramora No.2	45	15	0	0	60
2	Burha Senchowa	225	3	0	28	256
3	Bonkhowa Chuk	209	108	3	0	320
4	Kamar Gaon	177	42	0	1	220
5	Mekheli Gaon	91	69	0	0	160
6	Tataya Gaon	250	67	0	1	318
7	Sumoi Mari	124	29	5	22	180
8	Gagol Doba	45	0	0	5	50
9	Motia Bari	94	25	0	18	137
10	Potia Gaon	78	21	5	0	104
11	Borboka Pathar	204	4	0	49	257
12	Goroimari Doloni	53	14	0	1	68
13	Dakhinpat Satra	100	50	0	0	150
14	Karhal Gaon	133	0	0	20	153
15	Radha Chapori N.C.	79	21	0	0	100
16	Bon Gaon	81	46	2	1	130
17	Chakuli Pathar	43	7	0	0	50
18	Chamaguri Satra	134	99	0	0	233
19	Dhowachala Gaon	113	57	0	0	170
20	Jogi Gaon	118	42	0	0	160
21	Mudoi Tanti	140	20	0	0	160
Total		2536	739	15	146	3436

Source: House to House data collection

Table No. 2.4: Details of Agro-climatic condition

1	2	3	4	5	6		7	
					Major soil types		Major crops	
Sl. No.	Name of the Project	Name of the Agro-climatic zone covers project area	Area in ha	Names of the villages	a)Type	b) Area in ha	a) Name	Major crops
1	Majuli-I /2021-22 (Lower-Tuni)	Upper Brahmaputtra Valley Zone	500.00	Dhowachala Gaon	Alluvial (Sandy Loam)	269.20	Winter Paddy	1052.00
2			175.00	Bhuramora No.2		103.00	Black Gram/ Green Gram	180.00
3			147.00	Jogi Gaon		174.00		
4			181.00	Bon Gaon		182.20	Kharif Vegetable	110.00
5			221.00	Bonkhowa Chuk		247.00	Summer Paddy	1806.00
6			290.00	Motia Bari		108.00	Mustard	780.00
7			127.00	Mudoi Tanti		268.10	Pea	85.00
8			338.00	Potia Gaon		250.00	Potato	120.00
9			137.00	Chamaguri Satra		313.20	Robi Vegetable	116.00
10			319.00	Mekheli Gaon		116.50	Atumn Paddy	128.00
11			243.00	Chakuli Pathar		105.40	Horticulture	52.00
12			346.00	Tataya Gaon		95.60		
13			126.00	Sumoi Mari		102.00		
14			254.00	Borboka Pathar		173.50		
15			267.00	Kamar Gaon		256.00		
16			843.00	Radha Chapori N.C.		218.00		
17			179.00	Gagol Doba		93.1.0		
18			147.00	Karhal Gaon		252.00		
19			310.00	Goroimari Doloni		252.20		
20			214.00	Burha Senchowa		95.00		
21			120.00	Dakhinpat Satra		65.00		
Total			**5484.00**	**-**		**3837.00**		**4429.00**

Source: From PPR

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

1	2	3	4		5
Sl. No.	Particulars	Villages	Periodicity		Not affected
			Annual	Any other (please specify)	
1	Flood	No. of village s : 21			
		Name(s) of villages – Dhowachala Gaon, Bhuramora No.2, Jogi Gaon, Bon Gaon, Bonkhowachuk, Motiabari, Mudoi Tanti, Potia Gaon, Chamaguri Satra, Mekheli Gaon,Chakuli Pathar,Tataya Gaon, Sumoimari, Borboka Pathar,Kamar Gaon, Radha Chapori N.C., Gagol Doba, Karhal Gaon, Goroimari Doloni, Burha Senchowa, Dakhinpat Satra	Periodic	Flash Flood	Nil
2	Drought	No. of villages – NIL			
		Name(s) of villages – Does not arise	-	-	-

Source: From field

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	4316	556	15
b	Rill	264		
c	Gully	-		
Sub-Total		4580		15
Wind erosion		N/A	NA	-
Total		4580	556	15

Source: From field

Table No. 2.7: Details of Soil PH:

1	2	3	4	5
SL. No.	Names of the villages	Sample No.	Soil PH	Soil Type
1	Dhowachala Gaon	1	5.50 to 6.00	Alluvial(Sandy Loam)
2	Bhuramora No.2	2	5.50 to 6.00	Alluvial(Sandy Loam)
3	Jogi Gaon	3	5.50 to 6.00	Alluvial(Sandy Loam)
4	Bon Gaon	4	5.50 to 6.00	Alluvial(Sandy Loam)
5	Bonkhowa Chuk	5	5.50 to 6.00	Alluvial(Sandy Loam)
6	Motia Bari	6	5.50 to 6.00	Alluvial(Sandy Loam)
7	Mudoi Tanti	7	5.50 to 6.00	Alluvial(Sandy Loam)
8	Potia Gaon	8	5.50 to 6.00	Alluvial(Sandy Loam)
9	Chamaguri Satra	9	5.50 to 6.00	Alluvial(Sandy Loam)
10	Mekheli Gaon	10	5.50 to 6.00	Alluvial(Sandy Loam)
11	Chakuli Pathar	11	5.50 to 6.00	Alluvial(Sandy Loam)
12	Tataya Gaon	12	5.50 to 6.00	Alluvial(Sandy Loam)
13	Sumoi Mari	13	5.50 to 6.00	Alluvial(Sandy Loam)
14	Borboka Pathar	14	5.50 to 6.00	Alluvial(Sandy Loam)
15	Kamar Gaon	15	5.50 to 6.00	Alluvial(Sandy Loam)
16	Radha Chapori N.C.	16	5.50 to 6.00	Alluvial(Sandy Loam)
17	Gagol Doba	17	5.50 to 6.00	Alluvial(Sandy Loam)
18	Karhal Gaon	18	5.50 to 6.00	Alluvial(Sandy Loam)
19	Goroimari Doloni	19	5.50 to 6.00	Alluvial(Sandy Loam)
20	Burha Senchowa	20	5.50 to 6.00	Alluvial(Sandy Loam)
21	Dakhinpat Satra	21	5.50 to 6.00	Alluvial(Sandy Loam)

Source: District Agriculture Office, Majuli

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(^{0}C)		Wind Velocity	Open pan evaporation (mm per day)	Relative Humidity(RH)	Average Annual run off (mm/year)
				Max	Min				
1	2017	170.83	2050.00	36,00	7.00	5 to 11 km/hr	50.00	72%	617.00
2	2018	148.50	1782.00	37,00	14.00	5 to 11 km/hr	53.00	73%	547.00
3	2019	142.42	1709.00	38,00	12.00	5 to 11 km/hr	49.00	71%	526.00
4	2020	149.50	1794.00	32,00	15.00	5 to 11 km/hr	54.00	75%	543.00
5	2021	148.33	1780.00	30.00	12.00	5 to 11 km/hr	48.00	74%	547.00
Average		151.92	1823.00	34.60	12.00	5 to 11 km/hr	50.80	73%	556.00

Source: Water Resource, Majuli

Table No.-2.8 Physiographic Features:

Elevation(MSL)	Slope Range(%)	Order of Watershed	Major Stream	Toposequence (Soil series)	Average annual soil loss(Ton / hectare/year)
84.50m	2 to 5	-	Tuni river	Sandy loam Loamy	15.00

Source: From field

Table No. 2.9 Watershed characteristics

Shape index of the watershed	Length of main stream	Drainage density	Average slope	Watershed relief	Perimeter of the watershed
Rectangular	Tuni River a.Total length=74km b.Within project=13km	0.30	0.55%	plain	27343.00RM

Source: From field

CHAPTER – 3
BASE LINE INFORMATION OF WATERSHED

Table No. 3.1: Demographic features:

1	2	3	4	5
Sl. No	**Feature**	**Male**	**Female**	**Total**
1	Population	12195	11838	24220
	SC	4528	4400	8928
	ST	1481	1282	2763
	BC	2809	2877	5686
	Others	3377	3279	6656
2	Children(0-14 years)	1032	1033	2065
3	Sex Ratio	1000	971	-
4	Literacy			
	Literates	6903	6639	13542
	Illiterates	1138	1357	2495
5	Work Force			
	Agriculture	2638	583	3221
	Industrial/Business	295	50	345
	Service	443	144	587
6	Birth Rate	22:1000	20:1000	21:1000
7	Death Rate	6.4:1000	6.2:1000	6.3:1000

Source: From field

Table No. 3.2: Livestock details:

1	2	3
Sl. No	Feature	No./ quantity)
1	Milch Animals	
	Cows	5490
	Buffaloes	128
	Goat, sheep	3750
2	Draft Animals	
	Ox	2506
	He Buffalo	7
3	Others	
	Poultry	2039
	Piggery	19
	Fishery	360
4	Total Milk production from milch animals (ltrs/day)	2141
5	Fodder Availability	
	Dry (Abundant/Sufficient/ Scarce)	Sufficient
	Green (Abundant/Sufficient/ Scarce)	Sufficient
6	Fuel wood Availability (Abundant/Sufficient/Scarce)	Sufficient

Source: From field

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.) [per head/year]			
				Rain fed			Irrigated						
				SC	ST	Others	SC	ST	Others	SC	ST	Others	Total
1	Marginal	2536	2317	113.60	70.30	2067.40	--	--	--	22720000.00	14060000.00	413480000.00	450260000.00
2	Small Farmers	739	367	311.40	178.50	1162.80	--	--	--	62280000.00	35700000.00	232560000.00	330540000.00
3	Big farmers	15	--	13.00	12.00	538.20	--	--	--	2600000.00	2400000.00	107640000.00	112640000.00
4	Land less	146	146	--	--	--	--	--	--	--	--	--	--
Total		3436	2830	--	--	--	--	--	--	--	--	--	--

Source: From field

Table No. 3.4: Migration Details:

1	2			3	4	5	6	7
Sl. No.	No. of persons migrating			No. of days per year of migration	Major reason(s) for migrating	Distance of destination of migration from the village (km)	Occupation during migration	Income from such occupation (Rs.)
	M	F	Total					
1	3820	Nil	3820	150-180 days	To get regular wages etc. during lean period of the year and after completing of cultivation practice and get subsidiary income for upliftment of the family member.	20-40 km	Daily wage	6000-8000

Source: From field

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

1	2	3				4				5			6			7			8			9	
Sl. No.	**Type of Group**	**Total no. of CBOs**				**No. of members**				**No. of ST in each category**			**No. of SC in each category**			**No. of Others in each category**			**No. of BPL in each category**			**Bank linkage**	
		With only Men	**With only Women**	**With both**	**Total**		**M**	**F**	**Total**	**M**	**F**	**Total**	**M**	**F**	**Total**	**M**	**F**	**Total**	**M**	**F**	**Total**	**No. of SHGs**	**Bank Loan Amount (Rs.)**
1	SHG	-	935	-	15	**(i)Landless**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						(ii) MF	-	6156	6156		745	745		1537	1537		2687	2687		4242	4242	165	330.00
						(iii) SF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						(iv) LF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total	-	935	-	15		-	6156	6156		745	745		1537	1537		2687	2687		4242	4242	165	330.00
2	UGs	Nil	Nil	Nil	Nil	**(i) Landless**	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil
						(ii) MF	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil
						(iii) SF	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil
						(iv) LF	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil
	Total	-	935	-	15		nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil
3	VSS	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil
4	FG/FC	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil
5	WUA	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil
6	F-SHG-C	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil
7	F-SHG-B	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil
8	PG	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil
9	PC	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil
10	Other related Groups (Specify	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil	nil

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 Cooperatives.

Source: From field

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	137	In walking distance	Within project area
	Primary School	36	In walking distance	
	Secondary school	8	In walking distance	
	Govt. College	2	In walking distance	
	Vocational Institutions	1	In walking distance	
2	Service Institutions			
	Bank	3	In walking distance	
	Post office	3	In walking distance	
	Primary Health Care Center	3	In walking distance	
	Veterinary Center	4	In walking distance	
	Markets/ Village Haat	3	In walking distance	
3	No. of bore wells/pump sets (Functional)	Nil	In walking distance	
4	No. of Milk collection centers (Union/ Society/ Pvt. Agency/Others)	Nil	In walking distance	
	Total Quantity of surplus milk	Nil		
5	Road Connectivity (to main road by an all-weather road) (Yes/No)	Yes	-	-
6	Bus facility (Yes/No)	Yes	-	-
7	No. of HHs provided electricity	4408	-	-
8	No. of HHs with access to drinking water	450	-	-
9	Access to Agro Industries (Yes/No)	No	-	-
10	Any other facilities (specify----------)		-	-

Source: From field

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

1	2	3	4	5	6	7	8	9		10		11	12	13
Sl. No.	Village	Geographical area	Forest area	Community land	Land under non agriculture use	Permanent Pastures	Land under micsc. Use	Uncultivable private land		Cultivated area		Net Sown Area	Net area sown more than once	Gross cropped area
								Temporary fallow	Permanent fallow	Cultivated Rainfed	Cultivate Irrigated			
1	Dhowachala Gaon	500.00	0.00	2.00	64.6	1.20	3.00	3.00	68.70	459.20	7.90	467.10	44.00	511.10
2	Bhuramora No.2	175.00	0.00	2.00	14.4	0.50	1.00	7.10	6.80	146.60	14.00	160.60	16.00	176.60
3	Jogi Gaon	147.00	0.00	1.50	11.4	7.00	1.00	1.40	3.00	125.60	10.00	135.60	14.00	149.60
4	Bon Gaon	181.00	0.00	2.20	28.4	0.80	1.50	7.20	23.40	157.80	6.80	164.60	17.00	181.60
5	Bonkhowa Chuk	221.00	0.00	2.40	43.7	2.00	1.50	7.80	49.00	183.70	8.50	192.20	20.00	212.20
6	Motia Bari	290.00	0.00	2.20	6.2	1.00	2.00	2.00	3.20	245.00	38.80	283.80	29.00	312.80
7	Mudoi Tanti	127.00	10.00	1.00	50.4	1.00	1.00	5.10	37.00	90.40	6.50	96.90	10.00	106.90
8	Potia Gaon	338.00	0.00	2.30	82.7	0.00	2.00	7.10	92.90	224.00	62.00	286.00	3.00	289.00
9	Chamaguri Satra	137.00	0.00	0.80	102.1	2.00	1.00	7.00	107.00	18.00	3.00	21.00	2.00	23.00
10	Mekheli Gaon	319.00	0.00	1.80	14	1.00	2.00	2.00	11.00	288.60	16.40	305.00	32.00	337.00
11	Chakuli Pathar	243.00	0.00	2.00	30	0.50	1.50	3.40	29.10	208.60	6.40	215.00	22.00	237.00
12	Tataya Gaon	346.00	0.00	2.00	25.9	0.70	2.00	4.10	24.10	296.90	30.20	327.10	33.00	360.10
13	Sumoi Mari	126.00	0.00	0.70	22.4	2.00	1.00	7.40	13.00	96.60	7.00	103.60	10.00	113.60
14	Borboka Pathar	254.00	0.00	2.20	16.8	5.10	1.00	3.40	8.30	212.60	24.60	237.20	24.00	261.20
15	Kamar Gaon	267.00	0.00	2.00	41.4	0.00	1.00	8.00	36.90	227.30	4.80	232.10	23.00	255.10
16	Radha Chapori N.C.	843.00	0.00	2.20	39	0.00	5.00	4.20	34.80	754.20	49.80	804.00	8.00	812.00
17	Gagol Doba	179.00	0.00	1.10	16.9	1.00	1.00	7.50	10.40	147.50	17.60	165.10	17.00	182.10
18	Karhal Gaon	147.00	0.00	1.15	46	3.00	1.00	4.00	55.00	119.00	6.00	125.00	13.00	138.00
19	Goroimari Doloni	310.00	0.00	2.00	81.3	0.00	1.50	6.10	113.30	234.20	6.40	240.60	24.00	264.60
20	Burha Senchowa	214.00	0.00	2.20	29	3.00	1.00	6.00	20.00	167.90	17.10	185.00	19.00	204.00
21	Dakhinpat Satra	120.00	0.00	0.70	30	0.00	1.00	7.00	30.00	87.50	5.50	93.00	9.00	102.00
	Total	**5484.00**	**10.00**	**34.25**	**796.60**	**31.80**	**33.00**	**110.80**	**776.90**	**4481.20**	**349.30**	**4840.50**	**389.00**	**5229.50**

Source: From field & Census 2011

Table No. 3.8: Details of Common Property Resources:

1	2	3				4			
Sl. No	CPR Particulars	Total Area (ha) Area owned/ In possession of				Area available for treatment (ha)			
		Pvt. persons	Govt. (specify dept.)	PRI	Any other (Pl. Specify)	Pvt. persons	Govt. (specify deptt.)	PRI	Any other (Pl. Specify)
1	Wasteland/ degraded land								
2	Pastures	Nil	31.80	Nil	Nil	Nil	Nil	Nil	Nil
3	Orchards								
4	Village Forest								
5	Forest	Nil	10.00	Nil	Nil	Nil	Nil	Nil	Nil
6	Village Ponds/ Tanks	2.00	-	6.00	-				
7	Community Buildings	-	-	-	8.00				
8	Weekly Markets	-	-	1.00	-				
9	Permanent markets	-	-	-	10.00				
10	Temples/ Places of worship	-	-	-	1.50				
11	Others (Pl. specify)	-	-	-	-				
Total		**2.00**	**41.80**	**7.00**	**19.50**	**Nil**	**Nil**	**Nil**	**Nil**

Source: From field

Table No. 3.9: Agriculture implements:

1	2	3
Sl. No	Implements	Nos.
1	Tractor	4
2	Sprayers-manual/ power	215
3	Cultivators/Harrows	nil
4	Seed drill	nil

Source: From field

Table No. 3.10: Crop Classification:

1	2	3
Sl. No	Crop classification	Area (Hact.)
1	Single crop	4488.40
2	Double crop	100.2
3	Multiple crop	63.0

Source: From field

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) (4+8)	Production (Ton/yr) (5+9)	Productivity (Kgs/ha) (6+10)/2	Cost of cultivation (Rs. /ha) (7+11)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Kharif	Sugar cane	4	28.80	7200.00	7000.00	3	22.50	7500.00	9000.00	7	51.30	7350.00	8000.00
		Black gram	15	16.88	1125.00	8000.00	10	11.75	1175.00	8000.00	25	28.63	1150.00	8000.00
2	Rabi	Mustard	6	36.00	6000.00	15000.00	-	-	-	-	6	36.00	6000.00	15000.00
		Vegetable	3	1.50	500.00	20000.00	2	1.20	600.00	20000.00	5	2.70	550.00	20000.00
3	Summer	Summer Rice	4100	10250	2500.00	24000.00	-	-	-	-	4100	10250	2500.00	24000.00
	Total	-	4128	1033.18	-	-	15	35.45	-	-	4143	10368.63	-	-

Source: From field

Table No. 3.12: Land capability Classification

1	2	3	4	5					6				7				8
Sl. No	Land Type	Total Area	Soil Texture	Based on Depth (cms) – (mention area in (Hact)					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	
													Rill	Sheet	Gully		
1	Valley	1603	Sandy /Loamy	0	0	0	0	0	1603	0	0	21	0	0	0	0	Class-II
2	Valley	1091	Sandy /Loamy	0	0	0	0	0	0	1091	0	0	15	0	0	0	Class-II
3	Valley	368	Sandy /Loamy	0	0	0	0	0	0	368	0	0	3	0	0	0	Class-II
4	Valley	258	Sandy /Loamy	0	0	0	0	0	0	258	0	0	2	0	0	0	Class-II
Total		**3320**		**0**	**0**	**0**	**0**	**0**	**0**	**3320**	**0**	**0**	**41**	**0**	**0**	**0**	**-**

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

Source: From field

Table No.3.13: Irrigation facilities:

1	2	3	4
Sl. No	Type of the Source	Nos.	Command area (in ha)
1	Ponds	Nil	
2	Open wells	Nil	
3	Bore wells	Nil	
4	Canal irrigation	1	12 Hac.
5	Natural spring head	Nil	

Source: From field

Table No. 3.14: Status of Water table:

1	2	3	4	5	6	7	8
Sl. No	Source (open well)**	Plot No of the source	Name of the Owner*	Date of recording	Depth of water table from ground level (in mts)	Source located at (ridge/ middle / valley)	Remarks
1	ShallowTube well	Burasensowa	Bhaity Taye,	1-1-2022	9	Valley	
2		Potia Gaon	Pabon Dutta,	1-1-2022	7	Valley	
3		Motiabari Missing	Ranjan ayeng,	1-1-2022	10	Valley	
4		Dakhinpat Satra	Munindra Hazarika,	1-1-2022	9	Valley	
5		Bhuya,Tataya	Jyoti	1-1-2022	9	Valley	
6		Saikia, Kamar Gaon	Khireswar	1-1-2022	10	Valley	
7		Gagol Duba	Lalit Kutum,	1-1-2022	9	Valley	
8		Chumaimari	Dibakar Doley,	1-1-2022	9	Valley	
9		Bhuramara	Khagen Das,	1-1-2022	9	Valley	
10		Bongaon	Bijoy Das,	1-1-2022	9	Valley	

Source: From field.

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	226020	Tube Well , Govt. Supply
2	Present availability of drinking water	Ltrs/day	220000	
3	No. of drinking water sources available	Nos	104	
a)	Functional	Nos	87	
b)	Need Repairing	Nos	17	
c)	Defunct	Nos		
	Short fall if any	Ltrs/day	6020	
4	No. of families getting drinking water from outside the Micro watershed area	Nos	Nil	
5	Requirement of new drinking water sources (if any)	Nos.	20	

Source: From field

Table No. 3.16: Surface water resources:

1	2	3	4	5
Sl. No	Type of water resource	Nos.	Area irrigated (Ha)	Storage capacity (Cum)
1	Tank	Nil	Nil	Nil
2	Pond	Nil	Nil	Nil
3	Lake	Nil	Nil	Nil
4	Check dam	Nil	Nil	Nil
5	Percolation tank	Nil	Nil	Nil
6	Channel/Canal	1	3.50	-
7	Any others (specify----------)	Nil	Nil	Nil

Source: From field

Table No. 3.17 Ground Water Structures to be repaired:

Sl. No	Type of structure	No. available			
		No. to be Repaired	No. to be rejuvenated	No. with no interventions required	Total
1		Nil	Nil	Nil	Nil
2		Nil	Nil	Nil	Nil
3		Nil	Nil	Nil	Nil
Total					

Source: From field

Table No. 3.18: Existing Water Saving Practices:

Name of the Major Crop	Area (Ha)				Current water Saving status as against flood irrigation. (Cum)
	Under water saving devices[$]	Under water conserving agronomic practices#	Any other (Pl. Specify)	Total	
NIL					

$: Sprinklers, Drip, PVC Pipe, etc., #: Vermi compost, organic manuring, check basin, alternate furrow, Ridges and furrow & specific practices

Source: From field

Table No. 3.19: Details of Existing Livelihoods:

1	2	3						4
Sl. No.	**Name of activity**	**No. of beneficiary**						**Pre-project average income per HH (Rs.)**
		SC	**ST**	**OBC**	**Others**	**Total**	**Women**	
	Dairy	185	192	205	322	904	272	42000.00
	Piggery	-	150	-	-	150	232	32000.00
	Poultry	155	572	381	488	1596	479	27000.00
	Goatary	273	188	216	316	993	298	36000.00
	Fishery	110	130	120	69	429	129	37000.00
Total		**723**	**1232**	**922**	**1195**	**4072**	**931**	

Source: From field

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

1	2	3	4	5	6
Sl. No	**Name of the work**	**Plot No.**	**Quantity (No./RMTs)**	**Amount spent (Rs.)**	**Programme**
Nil					

Source: From field

Table No.3.21 PROBLEM TYPOLOGY OF THE WATERSHED:

1	2	3	4
Sl. No.	**Problem of the area**	**Problem Analysis**	**Proposed interventions to overcome problems**
1	**Soil Conservation (slope, erosion, soil loss, rainfall, productivity, etc)**	Soil Erosion, and heavy soil loss in upland area. Sheet erosion is combatively high in many places. Unpredictable nature of Soil	Construction of graded bund and field bund to protect the soil erosion and siltation problems.
2	**Water conservation (Water budget, Ground water norms, productivity**	Degradation of Natural Resource such as congestion of natural drainage. Lack of water storage facility results in shortage of water during winter. 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. Due to inadequate irrigation infrastructure mainly mono cropping is done	Re-generation of drainage channel by excavation and reclamation activities. Reclamation of natural water bodies (beels) by excavating and constructing periphery bund etc. toIncrease water storage capacity. Creation of Farm Pond and related distribution channel for water harvesting/storage and irrigation. Construction of Nullabund to control the water logging problem.
3	**Crop coverage – {80% of w/s area should be with canopy}**	Rabi crop area is proportionately small due to inadequate irrigation facilities. Predominance Mono cropping. Flooding problem during summer. Scarce vegetative cover over the area	Agro-forestry, fuel wood plantation Turmeric & Banana Plantation
4	**Agriculture productivity (crop wise compare with dist. average)**	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.	Brick canal and water storage farm pond for irrigation for both Rabi & Kharif crop.
5	**Livestock productivity (Milk Yield, Meat yield, Eggs, Wool Yield, Kidding etc.)**	Dearth of fodder during flood period. Lack of protected shelter for the inhabitants during flood period. Lack of grazing land effects the production of milk and allied products, which in turn results in inadequate nutrition. Diseases which reduce the production potential of livestock.	Promotion of marketing facilities through SHG. Promotion of Dairy, Piggery, goatery, Duckery and Poultry farming activities.

1	2	3	4
Sl. No.	**Problem of the area**	**Problem Analysis**	**Proposed interventions to overcome problems**
6	**Existing Livelihood activities for Asset less persons**.	Less income generating unsustained activities. Their present occupation is Daily Labour, Rikswa Pullers etc.	Promotion of Dairy, Piggery, goaery, Duckery and Poultry farming activities. Promotion of weaving activities for asset less woman.
7	**Community Based Organizations & Social capital base**	Most of the SHGs are not functional.	Formation of SHG, User groups for promotion of various income generating activities
8	**Capacity Building (participation, training, awareness of watershed community**	1. In many villages it is observed that the Participation in Gram Sabha is very low due to lack of awareness towards watershed development activities.	Conducting Awareness programmes among the villagers. Providing training in respect to each activities proposed for watershed development as well as livelihood generation.
9	**Others (specify)**	Lack of Marketing and treading Facilities	1. Providing Market Promotion Centres along with Low Cost go-down for storage of various products.

Source: From field

CHAPTER - 4
Institutional Building and Project Management

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

1	2	3				4	5			6			7			8			9	
Sl. No	Type of Group	Total No. of CBOs					No. of 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	No. of members	M	F	Total	M	F	Total	M	F	Total	M	F	Total	No. of SHGs	Bank linkage
1	SHG					(i) Landless	Can be filled up only after execution of the project													
						(ii) MF														
						(iii) SF														
	Total					(iv) LF														
2	UGs					(i)Landless														
						(ii) MF														
						(iii) SF														
	Total					(iv) LF														

*Account no. of Watershed Committee, PIA.

Source: To be collected from field after formation

Table No. 4.2: Details of Watershed Committees (WC)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Name of WCs	Date of Registration as a Society (dd/mm/ yyyy)	No. of members in WC	Designation	Name	M/F	SC	ST	SF	MF	LF	Land-less	UG	SHG	GP	Any other	Education qualification	Function/s assigned#
						Write "Yes" if applicable											
Dakhinpat MWS	Under Progress	12	Project Leader	Bharat Khanikar	M		-	-	-	-	-	-	-	-	-	H.S (Survey)	A,B,C,D,E,G
			President	Probin Ch. Das	M	Yes	-	-	-	-	-	-	-	-	-	B.A	A,B,D
			Vice - President	Riju Saikia	F	No	-	-	-	-	-	-	-	-	-	H.S	A,B,D
			Secretary	Anjan Kalita	M	-	-	-	-	-	-	-	-	-	-	H.S	A,B,C,D,E,G,
			Member	Bhaskar Kalita	M	-	-	-	-	-	-	-	-	-	-	H.S	A.E,H
			Member	Ranjan Das	M	Yes	-	-	-	-	-	-	-	-	-	H.S.L.C	A.E,H
			Member	Anupam Rajkhowa	M	-	-	-	-	-	-	-	-	-	-	H.S	A.E,H
			Member	Surav Kalita	M	-	-	-	-	-	-	-	-	-	-	H.S	A.E,H
			Member	Putul Borah	M	-	--	-	-	-	-	-	-	-	-	H.S.L.C	A.E,H
			Member	Kamal Boruah	M	-	-	-	-	-	-	-	-	-	-	H.S.L.C	A.E,H
			Member	Munindra Borah	M	-	-	-	-	-	-	-	-	-	-	H.S	A.E,H
			Member	Kakumoni Saikia	F	-	-	-	-	-	-	-	-	-	-	H.S	A.E,H

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

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Name of WCs	Date of Registration as a Society (dd/mm/ yyyy)	No. of members in WC	Designation	Name	M/F	SC	ST	SF	MF	LF	Land-less	UG	SHG	GP	Any other	Education qualification	Function/s assigned#
						Write "Yes" if applicable											
Rawanapara MWS	Under Progress	12	Project Leader	Bharat Khanikar	M	-	-	-	-	-	-	-	-	-	-	H.S (Survey)	A,B,C,D,E,G
			President	Modan Hazarika	M	-	-	Yes	-	-	-	-	-	-	-	B.A	A,B,D
			Vice – President	Priyanka Saikia	F	-	-	Yes	-	-	-	-	-	-	-	H.S	A.E,H
			Secretary	Prabin Oza	M	-	-	Yes	-	-	-	-	-	-	-	H.S	A,B,C,D,E,G,
			Member	Proffula Borah	M	-	-	Yes	-	-	-	-	-	-	-	9th Pass	A.E,H
			Member	Pobitra Bora	M	-	-	Yes	-	-	-	-	-	-	-	B.A	A.E,H
			Member	Bubul Borah	M	-	-	Yes	-	-	-	-	-	-	-	HSLC	A.E,H
			Member	Juri Das	F	Yes	-	Yes	-	-	-	-	-	-	-	H.S	A.E,H
			Member	Hideswar Saikia	M	-	-	Yes	-	-	-	-	-	-	-	B.A	A.E,H
			Member	Pranjal Saikia	M	-	-	Yes	-	-	-	-	-	-	-	B.A	A.E,H
			Member	Ajit Chintey	M	-	Yes	Yes	-	-	-	-	-	-	-	H.S.L.C	A.E,H
			Member	Navakanta Das	M	Yes	-	Yes	-	-	-	-	-	-	-	H.S	A.E,H

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

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Name of WCs	Date of Registration as a Society (dd/mm/ yyyy)	No. of members in WC	Designation	Name	M/F	SC	ST	SF	MF	LF	Land-less	UG	SHG	GP	Any other	Education qualification	Function/s assigned#
						Write "Yes" if applicable											
Bongaon MWS	Under Progress	12	Project Leader	Bharat Khanikar	M	-	-	-	-	-	-	-	-	-	-	H.S (Survey)	A,B,C,D,E,G
			President	Bul Bharali	M	Yes	-	Yes	-	-	-	-	-	-	-	H.S	A,B,D
			Vice-President	Rupali Saikia	F	-	-	Yes	-	-	-	-	-	-	-	B.A	A.E,H
			Secretary	Lakhinath Borah	M	-	-	Yes	-	-	-	-	-	-	-	H.S	A,B,C,D,E,G,
			Member	Deep Saikia	M	-	-	Yes	-	-	-	-	-	-	-	H.S	A.E,H
			Member	Prasanta Bharali	M	Yes	-	Yes	-	-	-	-	-	-	-	B.A	A.E,H
			Member	Hireswar Kalita	M	-	-	Yes	-	-	-	-	-	-	-	HSLC	A.E,H
			Member	Tulu Das	F	Yes	-	Yes	-	-	-	-	-	-	-	10th Pass	A.E,H
			Member	Pranobjyoti Bez	M	-	-	Yes	-	-	-	-	-	-	-	H.S	A.E,H
			Member	Hiteswar Borah	M	-	-	Yes	-	-	-	-	-	-	-	H.S	A.E,H
			Member	Balen Pegu	M	-	Yes	Yes	-	-	-	-	-	-	-	H.S	A.E,H
			Member	Ranjit Das	M	Yes	-	Yes	-	-	-	-	-	-	-	HSLC	A.E,H

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

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Name of WCs	Date of Registration as a Society (dd/mm/ yyyy)	No. of members in WC	Designation	Name	M/F	SC	ST	SF	MF	LF	Land-less	UG	SHG	GP	Any other	Education qualification	Function/s assigned#
						Write "Yes" if applicable											
Kamalabari MWS	Under Process	12	Project Leader	Bharat Khanikar	M	-	-	-	-	-	-	-	-	-	-	H.S (Survey)	A,B,C,D,E,G
			President	Bipul Dutta	M	-	-	Yes	-	-	-	-	-	-	-	BA	A,B,D
			Vice President	Ranjita Kutum Pegu	F	-	Yes	Yes	-	-	-	-	-	-	-	H.S	A.E,H
			Secretary	Jotin Chintey	M	-	Yes	Yes	-	-	-	-	-	-	-	B.A	A,B,C,D,E,G,
			Member	Amar Charo	M	-	Yes	Yes	-	-	-	-	-	-	-	H.S	A.E,H
			Member	Sisso Ram Doley	M	-	Yes	Yes	-	-	-	-	-	-	-	HSLC	A.E,H
			Member	Diganta Borah	M	-	-	Yes	-	-	-	-	-	-	-	B.A	A.E,H
			Member	Pronabjyoti Bhuyan	M	-	-	Yes	-	-	-	-	-	-	-	B.A	A.E,H
			Member	Anol Payun	M	-	Yes	Yes	-	-	-	-	-	-	-	H.S	A.E,H
			Member	Bimal Doley	M	-	-	Yes	-	-	-	-	-	-	-	9th Pass	A.E,H
			Member	Nayan Jyoti Pahadi	M	-	Yes	Yes	-	-	-	-	-	-	-	9th Pass	A.E,H
			Member	Anjana Borah	F			Yes	-	-	-	-	-	-	-	9th Pass	A.E,H

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

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

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

Source: From Watershed Committee Formation Meeting

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	Bharat Khanikar	M	50	H.S & Diploma in Survey	Departmental training on survey	A, B, C, D, E, F, G, H, I
2	Sri Anupam Dutta	M	28	M. Sc (Agri)	Departmental training on Agriculture	E, F, J (Training on Agriculture)
3	Thaneswar Mudoi	M	52	BVSC & A+A (Veterinary)	Departmental training on Veterinary	E, F, J (Training on Veterinary)
4	Dibajyoti Pegu	M	31	B. Tech. (Irrigation)	Departmental training on Irrigation	E, F, J (Training on Irrigation)
5	M.A Chowdary	M	50	D.Tech (Handloom Textile)	Departmental training on Handloom Textile	E, F, J (Training on Handloom Textile)

*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).

Source: Discussion with the line department

Table No. 4.4: PIA particulars:

1	2	3
Sl. No	**Particulars**	**Details of PIA**
1	Type of organization	H. Government Department
2	Name of organization	Department of Soil Conservation, Assam
3	Designation & Address	Divisional Soil Conservation Officer, Majuli Soil Conservation Division, Majuli, Assam
4	Telephone	9085757345/9854450561
5	Fax	
6	E-mail	Divisionmajulisoil@gmail.com

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

A Line Dept. B Autonomous organization

C Govt. Institute D Research Bodies

E Zila Parishad F Intermediate Panchayat

G Voluntary Organisations H Any other (please specify).

Source: From office record

Table No. 4.5 Bank Account Details:

Name of WC/PIA	Name of the Bank/Place	Account No.	Name of the Signatory	Address
WCDC, Majuli	State Bank of India, Kamalabari SBIN0018990	40608759437	Sultan Jahedur Rahman	Project Manager, Majuli & Divisional Officer, Majuli Soil Conservation Division, Majuli
PIA, Majuli-I (Lower Tuni) 2021-22 WDC-PMKSY 2.0	State Bank of India, Kamalabari SBIN0018990	40754231114	Sultan Jahedur Rahman	
MAJ-1 Bongaon MWS	State Bank of India, Kamalabari SBIN0018990	**40969360260**	Sri Bharat Khanikar (Project Leader) Sri Bul Bharali (Chairperson)	
MAJ-1 Dakhinpat MWS	State Bank of India, Kamalabari SBIN0018990	**40969360306**	Sri Bharat Khanikar (Project Leader) Sri Probin Das (Chairperson)	
MAJ-1 Kamalabari MWS	State Bank of India, Kamalabari SBIN0018990	**40969360317**	Sri Bharat Khanikar (Project Leader) Sri Bipul Dutta (Chairperson)	
MAJ-1 Rawanapara MWS		**40969360339**	Sri Bharat Khanikar (Project Leader) Sri Madan Hazarika (Chairperson)	

Source: From Accountant, WDC-PMKSY 2.0. Majuli

Table No. 4.6 Institutional Mechanisms: (Enclose the following documents)

4.6.1 Flow Chart of Institutional Arrangement from District to watershed level

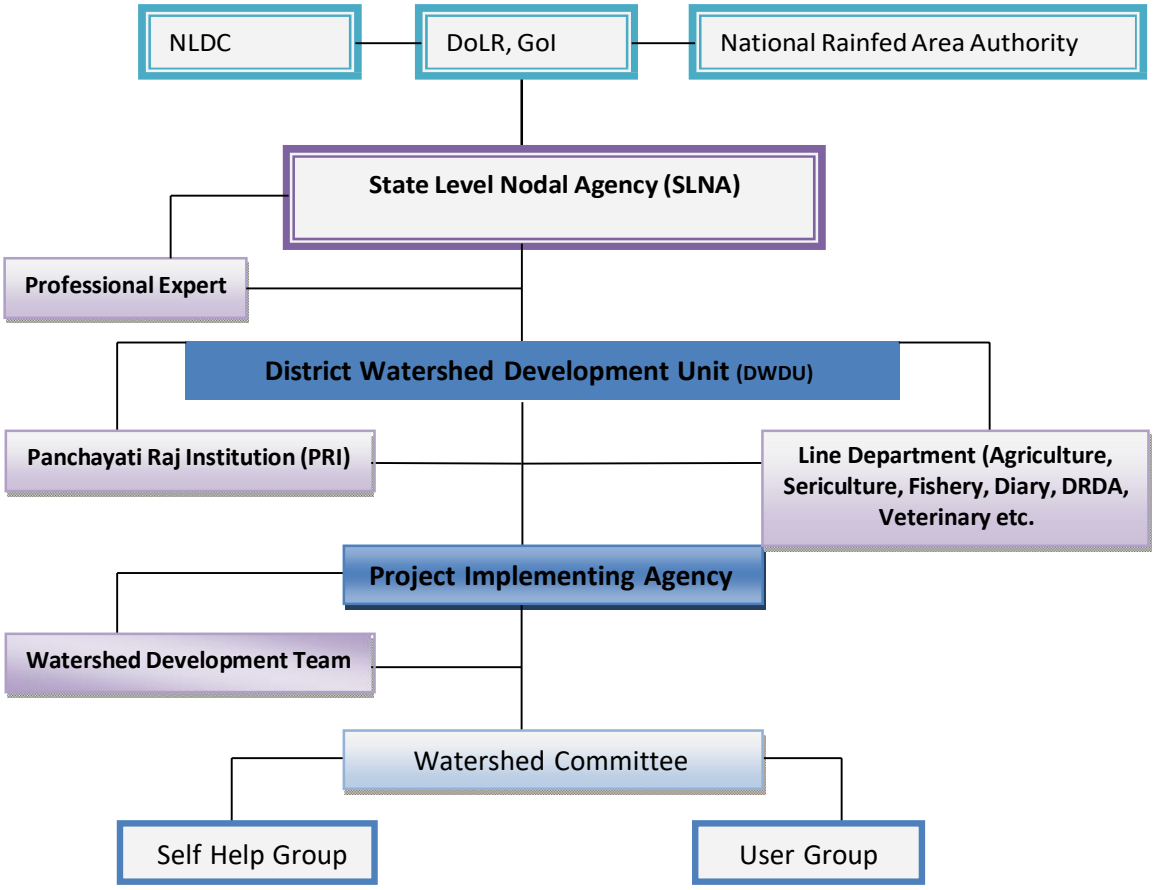


Table No. 4.6.1 Fund Flow mechanisms – flow chart,

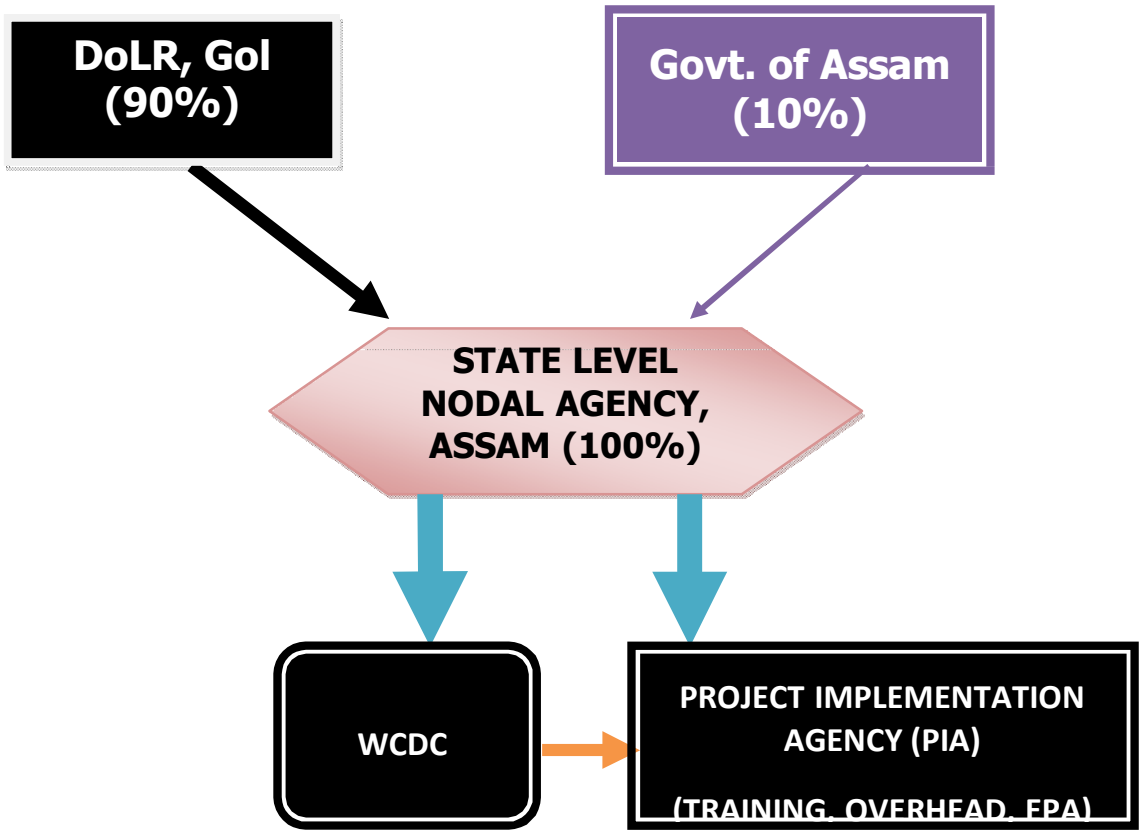


Table No: 4.6.3. List of Watershed Records to be maintained

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

Table No. 4.7 Documents of Agreements:

4.7.2.1 4.7.1) Watershed Committee Registration certificate(under process)

4.7.2.2 MoU – PIA – DWDU, PIA – WC (under process)

4.7.2.3 Resolution of Gram Sabha ,Aam Sabha, WC approving action plan# (to be enclosed latter)

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

4.8 Project Implementation

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

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 andessential services indicators.
- Remote sensing satellite imageries and aerial photographs taken at the start of the planare repeated periodically.
- Geographical Information Systems (GIS)
- Video monitoring.
- Comparison with demonstration and research plots/ farms.
- Comparison with demonstration and research micro-watersheds.
- Hydro-meteorological measuring.
- Using the information gathered by other institutional and private enterprises.
- Combination of above mentioned tools.

PIS	Tasks	Responsibility
Project Co-ordination	Immediate corrective action for problem encountered	WCDC, Project Manager, WDT Member
	Create Relationship among staff and Institution	Project Manager
	Team Building & Capacity Building	WCDC/PIA/Project Manager
	Co-operation and Network Development	WCDC/PIA/Project Manager
Project Management & Controlling	Progress of Project	Project Manager
	Report generating to account projectactivities and financial statement	PIA/Project Manager
	Performance monitoring	PIA/Project Manager/WCDC

Table No. 4.8 Convergence plan with IWMP:

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

CHAPTER – 5

Management/Action Plan

Table 5.1 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:

1. Data Collection : The study area is confined to 21 villages of Majuli 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 patters, 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.

2. Planning Process: All the data collected have been compiled and filled up the required table accordingly.
3. Mapping: Mapping has been done with the help of local villagers after doing the PRA exercise.
4. Hydro-geological Survey : The ground water table and the perculation capacity of the area has been studied during preparation of DPR
5. Public-Private partnership: The relationship of the public with the villagers of the edjoining villages has been studied.
6. Consolidation & preparation of DPR documents: Combining all the records, the DPR has been prepared with the best effort.
7. Approval by Aam Sabha/ Gram Sabha : The DPR has been approved by the Gram Sabha.

5.2 Details of Natural Resource Management Activities

Table No. 5.2.1 Soil and Moisture Conservation structures:

1	2	3	4	5	6	7	8	9	10	11	12	
Name of MWS	Name of Activities (Structure)	Name of village	Plot No. (including name of the local patch)	Name of beneficiaries	Area (in Hact) Dimension (in M/sqm/cum) of structure	Unit cost	Total Cost (in Rs.)	Contribution (in Rs.)	Total Grant amount (in Rs.)	Year of implementation (1st/2nd/3rd/4th/5th)	GPS No	
											Latitude	Longitude
Kamalabari MWS	Agri Bund	Motiabari	Motiabari pathar	-	600.00RM	1455.00	8,73,000.00	43,650.00	8,73,000.00	1st	26.956597	94.222239
		Chumaimari	Arjungurupathar	-	800.00RM	2055.00	16,44,000.00	82,200.00	16,44,000.00	1st	26.933772	94.226791
		Motiabari	Mohanpur to Malowkuwa Pathar	-	687.00RM	1428.57	10,00,000.00	50,000.00	10,00,000.00	2nd	26.949422	94.218093
		Gagol Duba	Gagol Duba to Habisora	-	515.00RM	1667.00	8,60,000.00	43,000.00	8,60,000.00	2nd	26.94545	94.241444
		Motiabari	Debotor Pathar	-	605.00RM	2055.00	12,44,000.00	62,200.00	12,44,000.00	3rd	26.96461	94.217353
Rawanapara MWS		Bonkhuwachuk	Kumarchapori Pathar	-	885.00RM	1455.00	12,88,000.00	64,400.00	12,88,000.00	1st	26.973313	94.267198
		Totaya	Kaundara Pathar	-	706.00RM	1500.00	10,60,000.00	53,000.00	10,60,000.00	1st	26.94394	94.260444
		Kamar Gaon	Simoluguri Pathar	-	800.00RM	2055.00	16,44,000.00	82,200.00	16,44,000.00	1st	26.94545	94.241444
		Bhurasensuwa	Sola Pathar	-	538.00RM	1455.00	7,84,000.00	39,200.00	7,84,000.00	2nd	26.964622	94.224882
		Mekheli Gaon	Charinga Pathar	-	206.00RM	2909.00	6,00,000.00	30,000.00	6,00,000.00	2nd	26.959032	94.257656
		Bhurasensuwa	Bihidia Pathar	-	725.00RM	1455.00	10,55,000.00	52,750.00	10,55,000.00	3rd	26.95535	94.22784
		No.2 Bhuramara	Amguri Pathar	-	300.00RM	1455.00	4,37,000.00	21,850.00	4,37,000.00	3rd	26.970562	94.235298
		Kamar gaon	Nidikibari Pathar	-	600.00RM	1727.00	10,36,000.00	51,800.00	10,36,000.00	5th	26.947821	94.241252
Bongaon MWS		Bongaon	P.W.D Road to Shengali Morajan	-	715.00RM	1663.75	11,91,000.00	59,550.00	11,91,000.00	1st	26.954286	94.284389
		Mudai Tati	Phukhuri Poria Chuk to Dalani Pathar	-	409.00RM	1455.00	5,95,000.00	29,750.00	5,95,000.00	3rd	26.955602	94.276822
		Jugi Gaon	P.W.D to Jugi Pathar	-	593.00RM	2266.44	13,44,000.00	67,200.00	13,44,000.00	2nd	26.943674	94.29585
		Mudoi Tanti	Ruwati Pathar to Bonkuwachuk		324.00RM	1850.00	6,00,000.00	30,000.00	6,00,000.00	4th	26.966173	94.281278
		Chamuguri	Chamuguri Bonia Pathar	-	252.00RM	1727.00	4,36,000.00	21,800.00	4,36,000.00	4th	26.937298	94.27687
		Bongaon	PWD to Changalimora Pathar	-	400.00RM	1850.00	7,40,000.00	37,000.00	7,40,000.00	5th	26.960445	94.284235

1	2	3	4	5	6	7	8	9	10	11	12	
Name of MWS	**Name of Activities (Structure)**	**Name of village**	**Plot No. (including name of the local patch)**	**Name of beneficiaries**	**Area (in Hact) Dimension (in M/sqm/cum) of structure**	**Unit cost**	**Total Cost (in Rs.)**	**Contribution (in Rs.)**	**Total Grant amount (in Rs.)**	**Year of implementation ($1^{st}/2^{nd}/3^{rd}/4^{th}/5^{th}$**	**GPS No**	
											Latitude	Longitude
Dakhinpat MWS	**Agri Bund**	Goroimari	Afolamukh Pathar	-	207.00RM	1455.00	3,01,000.00	15,050.00	3,01,000.00	1st	26.91121	94.279725
		Dakhinpat	Moghuli Pathar (Koroni Ati)	-	1000RM	1612.00	16,12,000.00	80,600.00	16,12,000.00	3rd	26.937283	942515553
		Radha Chapori	Chenimari Jan to Dakhinpath Kumar Gaon	-	605.00RM	2055.00	12,44,000.00	62,200.00	12,44,000.00	3rd	26.919726	94.240216
Kamalabari MWS	**Reclamation of Drainage Channel**	Chumoimari	Arjunguri Pathar	-	500.00RM	1300.00	6,50,000.00	32,500.00	6,50,000.00	3rd	26.933772	94.226791
		Motiabari	Malowkhuwa Pathar	-	250.00RM	1000.00	2,50,000.00	12,500.00	2,50,000.00	5th	26.950914	94.218689
Bongao MWS		Chamuguri Bonia	Chamuguri Dolani Pathar to Bihidiya Beel	-	800.00RM	1208.75	9,67,000.00	48,350.00	9,67,000.00	1st	26.941638	94.28254
		Dhowachala	Bhagemari	-	750.00RM	1200.00	9,00,000.00	45,000.00	9,00,000.00	2nd	26.988778	94.292167
Dakhinpat MWS		Borboka	Borboka Pathar	-	600.00RM	1800.00	10,80,000.00	54,000.00	10,80,000.00	2nd	26.934259	94.301106
		Radhachapori	Kawoi Mari Jan	-	400.00RM	1000.00	4,00,000.00	20,000.00	4,00,000.00	2nd	26.915260	94.259513
		Dakhinpat Satra	Chenimari-Magurmara	-	500.00RM	1000.00	5,00,000.00	25,000.00	5,00,000.00	2nd	26.926851	94.243437
Dakhinpat MWS	**Brick Canal**	**1 No. Karhal Gaon**	**Bezguri Pathar**	**-**	**300.00 RM**	**5310.00**	**15,93,000.00**	**79,650.00**	**15,93,000.00**	2nd	**26.936286**	**94.278821**
Total of SMC WORKS							**279,28,000.00**	**13,96,400.00**	**279,28,000.00**			

Source: From PRA Exercise & field survey

Table No. 5.2.2 Water Harvesting Structures:

1	2	3	4	5	6	7	8	9	10	11	12	
Name of MWS	Name of Activities (Structure)	Name of village	Plot No. (including name of the local patch)	Name of beneficiaries	Area (in Hact) Dimension (in M/sqm/cum) of structure	Unit cost	Total Cost (in Rs.)	Contribution (in Rs.)	Total Grant amount (in Rs.)	implementation (1st/2nd/3rd/4th	GPS No.	
											Latitude	Longitude
Dakhinpath MWS	Reclamation of Marshy land by Box Culvert	Radhachapori	Rani Narah Path	-	30.00cum	16667.00	5,00,000.00	25,000.00	5,00,000.00	1st	26.920874	94.245241
		Radhachapori	Natun Chubur	-	30.00cum	16667.00	5,00,000.00	25,000.00	5,00,000.00	2nd	26.918682	94.251185
		Radhachapori	Mohbat Path Dakhinpat Kumar Gaon	-	30.24cum	16667.00	5,04,000.00	25,200.00	5,04,000.00	5th	26.922286	94.242032
		Borbuka Pathar	Borbuka Pathar		40.00cum E/W = 150 m	16667.00	9,04,000.00	45,200.00	9,04,000.00	1st	26.933295	94.299935
Bongao MWS		Samaguri Satra	Samaguri Bonia Gaon		44.40cum	16667.00	7,40,000.00	37,000.00	7,40,000.00	2nd	26.940582	94.261771
		Chakoli Pathar	Construction of Box Culvert at Chakali Pathar		44.40cum	16667.00	7,40,000.00	37,000.00	7,40,000.00	1st	26.963127	94.300651
Rawanapara MWS		Tataya	Khaundbari Gaon		44.40cum	16667.00	7,40,000.00	37,000.00	7,40,000.00	1st	26.941811	94.255166
		Kamar Gaon	Kamar Gaon to Chumoimari		44.40cum	16667.00	7,40,000.00	37,000.00	7,40,000.00	1st	26.91996	94.239752
		Mekheli Gaon	Chapori Pathar		44.40cum	16667.00	7,40,000.00	37,000.00	7,40,000.00	2nd	26.956894	94.261182
Kamalabari MWS		Gagolduba	Gagolduba Pathar		44.40cum	16667.00	7,40,000.00	37,000.00	7,40,000.00	2nd	26.935519	94.248957
Kamalabari MWS	Renovation of Pond	Potia Goan	Kuh Beel	-	1818.00sqm	220.00	4,00,000.00	20,000.00	4,00,000.00	2nd	26.94409	94.228308
Rawanapara MWS		Mekheli gaon	Chariniya - Ati Beel	-	2727.00sqm	220.00	6,00,000.00	30,000.00	6,00,000.00	1st	26.959068	94.255385
		2 No.Bhuramora	Khalimari	-	2777.00sqm	220.00	6,11,000.00	30,550.00	6,11,000.00	2nd	26.94409	94.228308
		Bonkhuwachuk	Potiyabari Beel	-	2727.00sqm	220.00	6,00,000.00	30,000.00	6,00,000.00	2nd	26.967665	94.267133
		Totaya	Totaya Pathar-Bhimpur Satra	-	4091.00sqm	220.00	9,00,000.00	45,000.00	9,00,000.00	4th	26.94608	94.248761
		Mekheli gaon	Tatinga Beel		2273.00sqm	220.00	5,00,000.00	25,000.00	5,00,000.00	2nd	26.959137	94.255246
Bongao MWS		Chakali Pathar	Chakali Pathar	-	2273.00sqm	220.00	5,00,000.00	25,000.00	5,00,000.00	3rd	26.962218	94.294979
Kamalabari MWS	Construction of Farm Pond	Gagol Duba	Gelapukhuri	-	2650.00sqm	302.00	8,00,000.00	40,000.00	8,00,000.00	1st	26.938646	94.235648
		Potia gaon	Potia Mandir Beel	-	1325.00sqm	302.00	4,00,000.00	20,000.00	4,00,000.00	1st	26.94376	94.221882
		Chumoimari	Upper Chumoimari	-	2650.00sqm	302.00	8,00,000.00	40,000.00	8,00,000.00	2nd	26.926392	94.235417
		Motiabari	Burha Kalita	-	994.00sqm	302.00	3,00,000.00	15,000.00	3,00,000.00	4th	26.951143	94.221988

1	2	3	4	5	6	7	8	9	10	11	12	
Name of MWS	Name of Activities (Structure)	Name of village	Plot No. (including name of the local patch)	Name of beneficiaries	Area (in Hact) Dimension (in M/sqm/cum) of	Unit cost	Total Cost (in Rs.)	Contribution (in Rs.)	Total Grant amount (in Rs.)	implementation (1st/2nd/3rd/	GPS No.	
											Latitude	Longitude
Bongao MWS	Construction of Farm Pond	Mudoi Tanti	Balichat Jan	-	2650.00sqm	302.00	8,00,000.00	40,000.00	8,00,000.00	1st	26.96344	94.280691
		Chakali Pathar	Chakali pond	-	1988.00sqm	302.00	6,00,000.00	30,000.00	6,00,000.00	1st	26.962218	94.294979
		Jugi Gaon	Jugi pathar	-	1325.00sqm	302.00	4,00,000.00	20,000.00	4,00,000.00	1st	26.95999	94.297014
		Chamuguri Bonia	Ghura Chara-Ati Pathar	-	1988.00sqm	302.00	6,00,000.00	30,000.00	6,00,000.00	2nd	26.946775	94.282205
		Bongaon	Changalimora jaan	-	1988.00sqm	302.00	6,00,000.00	30,000.00	6,00,000.00	2nd	26.959819	94.2841122
Dakhinpath MWS		Karhal Gaon	2 . No Karhal Gaon	-	2650.00 sqm	302.00	8,00,000.00	40,000.00	8,00,000.00	4th	26.931604	94.290703
TOTAL OF WHS							170,59,000.00	8,52,950.00	170,59,000.00			

*Source: From PRA Exercise & field survey

Table No. 5.2.3 Vegetative Covers:

1	2	3	4	5	6	7	8	9	10	11	12	
. Name of MWS	Name of Activities (Structure)	Name of village	Plot No. (including name of the local patch)	Name of beneficiaries	Area (in Hact) Dimension (in M/sqm/cum) of structure	Unit cost	Total Cost (in Rs.)	Contribution (in Rs.)	Total Grant amount (in Rs.)	Year of implementation (1st/2nd/3rd/4th/5t	GPS No.	
											Latitude	Longitude
Kamalabari MWS	Road Side Plantation	Chumaimari	Upper Chumaimari		210 Nos.	3,700.00	7,77,000.00	38,850.00	7,77,000.00	3rd	26.92887	94.244095
Bongaon MWS	Fodder Plantation	Jugi pathar	Jugi pathar		1.00 Hact.	3,00,000.00	3,00,000.00	15,000.00	3,00,000.00	3rd	26.940294	94.292854
	Horticulture	Chakali Pathar	Chakali Pathar		1.00 Hact.	3,00,000.00	3,00,000.00	15,000.00	3,00,000.00	2nd	26.96391	94.300185
	Protective Afforestation	Chakali Pathar	Chakali Pathar		7.00 Hact.	1,71,430.00	12,00,000.00	60,000.00	12,00,000.00	3rd	26.96397	94.300183
TOTAL OF VEGETATIVE COVER							25,77,000.00	1,28,850.00	25,77,000.00			

Source: From PRA Exercise & field survey

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

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

1	2	3	4	5	6	7	8				9	10
Sl. No.	**Name of Structure**	**Name of village**	**Area (in Hact)**	**Name of farmers**	**Total unit (No./cum/RM)**	**Unit cost**	**Proposed Plan**					
							Estimated cost (Rs. in lakh)				**Farmers' Contribution (Rs. In lakh)**	**Grant Portion (Rs. In lakh)**
							M	**W**	**O**	**T**		
A	Private Land											
	Nil											
	Common Land											
1	**Agri Bund**	Motiabari	82		600.00RM	0.01455	0.17000	8.46000	0.10	8.73	0.43650	8.73000
2		Chumaimari	150		800.00RM	0.02055	3.60000	12.64000	0.20	16.44	0.82200	16.44000
3		Motiabari	90		687.00RM	0.01429	0.25000	9.70000	0.05	10.00	0.50000	10.00000
4		Gagol Duba	145		515.00RM	0.01667	1.55000	7.00000	0.05	8.60	0.43000	8.60000
5		Motiabari	122		605.00RM	0.02055	3.60000	8.64000	0.20	12.44	0.62200	12.44000
6		Bonkhuwachuk	120		885.00RM	0.01455	0.35000	12.43000	0.10	12.88	0.64400	12.88000
7		Totaya	170		706.00RM	0.01500	2.64000	7.86000	0.10	10.60	0.53000	10.60000
8		Kamar Gaon	148		800.00RM	0.02055	3.60000	12.64000	0.20	16.44	0.82200	16.44000
9		Bhurasensuwa	108		538.00RM	0.01455	0.20000	7.60000	0.04	7.84	0.39200	7.84000
10		Mekheli Gaon	87		206.00RM	0.02909	3.50000	2.45000	0.05	6.00	0.30000	6.00000
11		Bhurasensuwa	95		725.00RM	0.01455	0.10000	10.40000	0.05	10.55	0.52750	10.55000
12		No.2 Bhuramara	38		300.00RM	0.01455	0.03000	4.33000	0.01	4.37	0.21850	4.37000
13		Kamar gaon	95		600.00RM	0.01727	1.40000	8.86000	0.10	10.36	0.51800	10.36000
14		Bongaon	122		715.00RM	0.01664	1.40000	10.46000	0.05	11.91	0.59550	11.91000
15		Mudoi Tanti	65		409.00RM	0.01455	1.20000	4.72000	0.03	5.95	0.29750	5.95000
16		Jugi Gaon	125		593.00RM	0.02266	3.55000	9.84000	0.05	13.44	0.67200	13.44000
17		Mudai Tati	54		324.00RM	0.01850	0.04000	5.95000	0.01	6.00	0.30000	6.00000
18		Chamuguri	96		252.00RM	0.01727	1.40000	2.86000	0.10	4.36	0.21800	4.36000
19		Bongaon	65		400.00RM	0.01850	1.20000	6.15000	0.05	7.40	0.37000	7.40000

1	2	3	4	5	6	7	8				9	10
Sl. No.	**Name of Structure**	**Name of village**	**Area (in Hact)**	**Name of farmers**	**Total unit (No./cum/RM)**	**Unit cost**	**Proposed Plan**					
							Estimated cost (Rs. in lakh)				**Farmers' Contribution (Rs. In lakh)**	**Grant Portion (Rs. In lakh)**
							M	**W**	**O**	**T**		
A	Private Land											
	Nil											
	Common Land											
20	**Agri Bund**	Goroimari	28		207.00RM	0.01455	0.06000	2.94000	0.01	3.01	0.15050	3.01000
21		Dakhinpat	155		1000RM	0.01612	1.20000	14.87000	0.05	16.12	0.80600	16.12000
22		Radha Chapori	115		605.00RM	0.02055	3.60000	8.64000	0.20	12.44	0.62200	12.44000
23	**Reclamation of Drainage Channel**	Chumoimari	56		500.00RM	0.01300	1.32000	5.15000	0.03	6.50	0.32500	6.50000
24		Motiabari	20		250.00RM	0.01000	0.07000	2.40000	0.03	2.50	0.12500	2.50000
25		Chamuguri Bonia	84		800.00RM	0.01209	1.32000	8.30000	0.05	9.67	0.48350	9.67000
26		Dhowachala	85		750.00RM	0.01200	1.50000	7.45000	0.05	9.00	0.45000	9.00000
27		Borboka	92		600.00RM	0.01800	3.50000	7.20000	0.10	10.80	0.54000	10.80000
28		Radhachapori	37		400.00RM	0.01000	0.10000	3.88000	0.02	4.00	0.20000	4.00000
29		Dakhinpat Satra	46		500.00RM	0.01000	0.10000	4.88000	0.02	5.00	0.25000	5.00000
30	**Brick Canal**	Karhal gaon	146		300.00RM	0.05310	11.40000	4.50000	0.03	15.93	0.79650	15.93000
TOTAL OF SMC WORKS							81.15000	249.38000	2.19	**332.72**	16.63600	**332.72000**

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

5.3.2: Details of engineering structures for Water Harvesting WHS:

1	2	3	4	5	6				7
Sl. No.	Name of Structure	Name of village	Total unit (No./cum/ RM)	Unit cost	Proposed Plan				
					Estimated cost (Rs. in lakh)				Farmers' Contribution (Rs. In lakh)
					M	W	O	T	
A	**Private Land**								
	Nil								
B	**Common Land**								
1	**Reclamation of Marshy land by Box Culvert**	Radhachapori	30.00cum	0.16667	3.500	1.45	0.05	5.00	0.25000
2		Radhachapori	30.00cum	0.16667	3.500	1.45	0.05	5.00	0.25000
3		Radhachapori	30.24cum	0.16667	3.540	1.45	0.05	5.04	0.25200
4		Borbuka Pathar	40.00cum	0.16667	6.330	2.63	0.08	9.04	0.45200
5		Samaguri Satra	44.40cum	0.16667	5.180	2.16	0.06	7.40	0.37000
6		Chakoli Pathar	44.40cum	0.16667	5.180	2.16	0.06	7.40	0.37000
7		Tataya	44.40cum	0.16667	5.180	2.16	0.06	7.40	0.37000
8		Kamar Gaon	44.40cum	0.16667	5.180	2.16	0.06	7.40	0.37000
9		Mekheli Gaon	44.40cum	0.16667	5.180	2.16	0.06	7.40	0.37000
10		Gagolduba	44.40cum	0.16667	5.180	2.16	0.06	7.40	0.37000
11	**Renovation of Pond**	Potia Goan	1818.00sqm	0.00220	0	3.97	0.03	4.00	0.20000
12		Mekheli gaon	2727.00sqm	0.00220	0	5.97	0.03	6.00	0.30000
13		2 No. Bhuramora	2777.00sqm	0.00220	0	6.08	0.03	6.11	0.30550
14		Bonkhuwachuk	2727.00sqm	0.00220	0	5.97	0.03	6.00	0.30000
15		Tataya	4091.00sqm	0.00220	0	8.96	0.04	9.00	0.45000
16		Mekheli gaon	2273.00sqm	0.00220	0	4.97	0.03	5.00	0.25000
17		Chakali Pathar	2273.00sqm	0.00220	0	4.97	0.03	5.00	0.25000
18	**Construction of Farm Pond**	Gagol Duba	2650.00sqm	0.00302	0	7.97	0.03	8.00	0.40000
19		Potia gaon	1325.00sqm	0.00302	0	3.97	0.03	4.00	0.20000
20		Chumoimari	2650.00sqm	0.00302	0	7.97	0.03	8.00	0.40000
21		Motiabari	994.00sqm	0.00302	0	2.97	0.03	3.00	0.15000
22		Mudoi Tanti	2650.00sqm	0.00302	0	7.97	0.03	8.00	0.40000
23		Chakali Pathar	1988.00sqm	0.00302	0	5.97	0.03	6.00	0.30000
24		Jugi Gaon	1325.00sqm	0.00302	0	3.97	0.03	4.00	0.20000
25		Chamuguri Bonia	1988.00sqm	0.00302	0	5.97	0.03	6.00	0.30000
26		Bongaon	1988.00sqm	0.00302	0	5.97	0.03	6.00	0.30000
27		Karhal Gaon	2650.00sqm	0.00302	0	7.97	0.03	8.00	0.40000
TOTAL OF WHS					10.540	105.95	0.66	**117.15**	**5.85750**

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

1	2	3	4	5	6	7	8	9
Sl. No.	Name of Structure	Name of village	Area (in Hact.)	No of Plants	Unit cost	Proposed Plan		
						Estimated Cost (Rs. In lakh)	Farmers' Contribution (Rs. In lakh)	Grant Portion (Rs. In lakh)
A	**Private Land**							
	Nil							
B	**Common Land**							
1	Single Planting	Chumaimari	2.00	210	0.03700	7.77000	0.38850	7.77000
2	Fodder Plantation	Jugi pathar	1.00	25000	0.00012	3.00000	0.15000	3.00000
3	Horticulture	Chakali Pathar	1.00	2500	0.00120	3.00000	0.15000	3.00000
4	Protective Afforestation	Chakali Pathar	7.00	7700	171.43000	12.00000	0.60000	12.00000
TOTAL OF VEGETATIVE COVER						25.77000	1.28850	25.77000

Chapter 6
Capacity Building Plan

Table No. 6.1 Details of Capacity Building:

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)	Numberof events	Number of Participants inan event	Total Number of days per event	Total Traineedays (=3 x 4 x 5)	Cost per Traineeday (in Rs)	Total Cost required for the programme (= 6x7 ; in Rs.)	Total GrantAmount (inRs)	Year of Implementation (1st/2nd/3rd/4th/ 5th)
MASS MEETING									
1	Mass Meeting	5	500	1	2500	100	250000	250000	1st, 2nd, 3rd
Sub Total		**5**	**-**	**-**	**2500**	**-**	**250000**	**250000**	
AWARENESS MEETING									
1	Awareness Meeting	8	200	1	1600	200	320000	320000	1st, 2nd, 3rd
Sub Total		**8**	**-**	**-**	**1600**	**-**	**320000**	**320000**	
PUBLICITY MATERIALS									
1	Publicity Materials	-	-	-	-	-	256000	256000	1st, 2nd,
Sub Total		**-**	**-**	**-**	**-**	**-**	**256000**	**256000**	
INSTITUTIONAL BUILDING									
1	WC Formation & Registration, etc.	4	300	1	1200	100	120000	120000	1st
2	UG Formation	20	50	1	1000	200	200000	200000	1st, 2nd, 3rd, 4th, 5th
3	SHG Formation	20	50	1	1000	300	300000	300000	1st, 2nd, 3rd, 4th,
Sub Total		**44**	**-**	**-**	**3200**	**-**	**620000**	**620000**	
TRAINING									
1	DWDC	2	10	1	20	1000	20000	20000	1st, 2nd
2	PIA/WDT	3	20	1	600	1000	60000	60000	1st, 2nd, 3rd
	Watershed Committee	10	11	1	110	1000	110000	110000	1st, 2nd,
	User Group	12	20	1	240	1000	240000	240000	1st, 2nd, 3rd, 4th, 5th
	SHG	12	40	1	480	1000	480000	480000	1st, 2nd, 3rd, 4th
Sub Total		**39**	**-**	**-**	**1450**	**-**	**910000**	**910000**	
EXPOSURE VISIT									
1	Farmers/ WC Members	2	20	2	80	1500	120000	120000	2nd, 3rd
2	PIA/WDT	4	10	2	80	2000	160000	160000	2nd, 3rd
Sub Total		**6**	**-**	**-**	**160**	**-**	**280000**	**280000**	
PARTICIPATION IN EXHIBITION									
1	SHG/UG	2	20	4	160	2000	320000	320000	2nd, 3rd, 4th, 5th
Sub Total		**2**	**-**	**-**	**160**	**-**	**320000**	**320000**	
SEMINER & WORKSHOP									
1	Seminar & Workshop	1	40	1	40	1500	60000	60000	2nd
Sub Total		**1**	**-**	**-**	**40**	**-**	**60000**	**60000**	
MEETING WITH WC IN THE OFFICE									
1	Meeting with WC	20	10	1	200	100	20000	20000	2nd, 3rd, 4th
Sub Total		**10**	**10**	**1**	**100**	**200**	**20000**	**20000**	
GRAND TOTAL							**3036000**	**3036000**	

CHAPTER 7

Phasing of Programme and Budgeting

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

Table No. 7.1: Phasing of the action plan.

1	2	3	4	5	6		7		8		9		10		11	
Sl. No	Component	Activities	Unit	Unit Cost (Rs.)	1st year		2nd year		3rd year		4th year		5th year		Total	
					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	**Entry Point Activities (2%)**															
	i	Renovation tanks	No.	-	-	-	-	-	-	-	-	-	-	-	-	-
	Ii	Drinking water	No.	-	-	-	-	-	-	-	-	-	-	-	-	-
	Iii	Community Drinking System	No.	-	-	-	-	-	-	-	-	-	-	-	-	-
	iv	Waiting Shed	No.	5,06,000.00	4	20,24,000.00	-	-	-	-	-	-	-	-	4	20,24,000.00
Total of Entry Point Activity					**4**	**20,24,000.00**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**4**	**20,24,000.00**

1	2	3	4	5	6		7		8		9		10		11	
Sl. No	Component	Activities	Unit	Unit Cost (Rs.)	1st year		2nd year		3rd year		4th year		5th year		Total	
					Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)
2	**Institution & Capacity Building (3%)**															
	i	**Mass Meeting**														
		Mass Meeting	No.	50000	3	150000	1	50000	1	50000	-	-	-	-	5	250000
	ii	**Awareness Meeting**														
		Awareness Meeting	No.	40000	6	240000	1	40000	1	40000	-	-	-	-	8	320000
	iii	**Awareness Generation (events) to be conducted (Publicity Materials)**														
		Pamphlets distribution	No.	5.60	10000	56000	-	-	-	-	-	-	-	-	10000	56000
		Wall posters	No.	10.00	4400	44000	5600	56000	-	-	-	-	-	-	10000	100000
		Rallies	No.	10000.00	10	100000	-	-	-	-	-	-	-	-	10	100000
	iv	**Institutional Building**														
		WC Formation & Registration, etc.	No.	30000	4	120000	-	-	-	-	-	-	-	-	4	120000
		Formation of UGs	No.	10000	10	100000	5	50000	2	20000	2	20000	1	10000	20	200000
		SHG Formation	No.	15000	10	150000	10	150000	-	-	-	-	-	-	20	300000
	v	**Training**														
		DWDC	No.	10000	1	10000	-	-	1	10000	-	-	-	-	2	20000
		PIA/WDT	No.	20000	2	40000	-	-	1	20000	-	-	-	-	3	60000
		Watershed Committee	No.	11000	8	88000	-	-	2	22000	-	-	-	-	10	110000
		User Group	No.	20000	5	100000	-	-	1	20000	4	80000	2	40000	12	240000
		SHG	No.	40000	8	320000	-	-	-	-	-	-	4	160000	12	480000

1	2	3	4	5	6		7		8		9		10		11	
Sl. No	Component	Activities	Unit	Unit Cost (Rs.)	1st year		2nd year		3rd year		4th year		5th year		Total	
					Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)
	vi	**Exposure Visit**														
		Farmers/ WC Members	No.	60000	-	-	-	-	1	60000	1	60000	-	-	2	120000
		PIA/WDT	No.	40000	-	-	-	-	1	40000	2	80000	1	40000	4	160000
	vii	**Participation in Exhibition**														
		SHG/UG	No.	160000	-	-	1	160000	1	160000	-	-	-	-	2	320000
	viii	**Seminar and Workshop**														
		Seminar and Workshop	No.	60000	-	-	-	-	1	60000	-	-	-	-	1	60000
	ix	**Meeting with WC in the office**														
		Meeting with WC	No.	1000	-	-	-	-	4	4000	13	13000	3	3000	20	20000
Total of Institution & Capacity Building						**1518000**		**506000**		**506000**		**253000**		**253000**		**3036000**

1	2	3	4	5			6			7			8			9			10	
				1st year			2nd year			3rd year			4th year			5th year			Total	
Sl. No	Component	Activities	Unit	Unit Cost	Phy (No)	Fin (Rs.)	Unit Cost	Phy (No)	Fin (Rs.)	Unit Cost	Phy (No)	Fin (Rs.)	Unit Cost	Phy (No)	Fin (Rs.)	Unit Cost	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)
3	**Productivity System (15%)**																			
	i	Dairy	No.	44000	3	132000	44000	9	396000	44000	21	924000	44000	15	660000	44000	2	88000	50	2200000
	ii	Poultry	No.	44000	6	264000	44000	9	396000	44000	21	924000	44000	15	660000	44000	5	220000	56	2464000
	iii	Duckery	No.	44000	3	132000	44000	18	792000	44000	21	924000	44000	15	660000	44000	2	88000	59	2596000
	iv	Goat Rearing	No.	44000	3	132000	44000	9	396000	44000	21	924000	44000	15	660000	44000	2	88000	50	2200000
	v	Piggery	No.	44000	3	132000	44000	9	396000	44000	21	924000	44000	15	660000	44000	2	88000	50	2200000
	vi	Fishery	No.	44000	3	132000	44000	9	396000	44000	21	924000	44000	16	704000	44000	3	132000	52	2288000
	vii	Horticulture	No.	44000	2	88000	44000	6	264000	44000	12	528000	42429	7	297000	27500	2	55000	29	1232000
	Total of Productivity System				**23**	**1012000**	**-**	**69**	**3036000**	**-**	**138**	**6072000**	**-**	**98**	**4301000**	**-**	**18**	**759000**	**346**	**15180000**
4	**Livelihood Activities for the asset less persons, Micro Enterprise & Business Development (15%)**																			
	i	Dairy	No.	25000	-	-	25000	16	400000	25000	28	700000	25000	30	750000	25000	6	150000	80	2000000
	ii	E. Rikshaw/E. Thela	No.	25000	13	325000	25000	-	-	25000	12	300000	25000	-	-	25000	-	-	25	625000
	iii	Poultry	No.	25000	7	175000	25000	-	-	25000	28	700000	25000	30	750000	25000	7	175000	72	1800000
	iv	Duckery	No.	25000	5	125000	25000	16	400000	25000	28	700000	25000	30	750000	25000	5	125000	84	2100000
	v	Goat Rearing	No.	25000	-	-	25000	16	400000	25000	28	700000	25000	30	750000	25000	7	175000	81	2025000
	vi	Piggery	No.	25000	5	125000	25000	-	-	25000	28	700000	25000	30	750000	25000	5	125000	68	1700000
	vii	Carrier Van	No.	25000	-	-	25000	32	800000	25000	48	1200000	25000	-	-	25000	-	-	80	2000000
	viii	Weaving	No	25000	5	125000	25000	16	400000	25000	38	950000	25000	30	750000	25000	5	125000	94	2350000
	ix	Carpentry	No	25000	3	75000	25000	3	75000	25000	3	75000	25000	1	25000	25000	3	75000	13	325000
	x	Cycle Repairing	No	20667	3	62000	18333	3	55000	23500	2	47000	14500	2	29000	20667	3	62000	13	255000

1	2	3	4	5	6		7		8		9		10		11	
Sl. No	Component	Activities	Unit	Unit Cost (Rs.)	1st year		2nd year		3rd year		4th year		5th year		Total	
					Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)
5	**Natural resource Management**															
	i	Soil and Moisture Conservation Structure														
	a	Agri Bund	RM	1731.00	7	80,01,000.00	5	45,88,000.00	6	61,87000.00	2	10,36,000.00	2	17,76000.00	22	215,88000.00
	b	Earthen Drainage Channel	RM	1250.00	1	9,67,000.00	4	28,80,000.00	1	6,50,000.00	-	-	1	2,50,000.00	7	47,47,000.00
	c	Brick Channel	RM	5310.00	-	-	1	15,93,000.00	-	-	-	-	-	-	1	15,93,000.00
	ii	**Water Harvesting Structure**														
	a	Reclamation of Marshy Land (Box Culvert)	Cum	17,265.00	5	36,24,000.00	4	27,20,000.00	-	-	-	-	1	504,000.00	10	68,48,000.00
	b	Renovation of Pond	Cum	0.00190	1	6,00,000.00	4	21,11,000.00	1	5,00,000.00	1	9,00,000.00	-	-	7	41,11,000.00
	c	Construction of Pond	Cum	0.00190	5	30,00,000.00	3	20,00,000.00	-	-	2	11,00,000.00	-	-	10	61,00,000.00
	iii	**Vegetative Cover**														
	a	Single Planting	No.	3000.00	-	-	-	-	1	7,77,000.00	-	-	-	-	1	7,77,000.00
	b	Fodder	Hact.	3,00,000.00	-	-	-	-	1	3,00,00.00	-	-	-	-	1	3,00,000.00
	C	Horticulture	Hact.	3,00,000.00	-	-	1	3,00,000.00	-	-	-	-	-	-	1	3,00,000.00
	d	P. Afforestation	Hact.	1,71,430.00					1	12,00000.00	-	-	-	-	1	12,00,000.00
Total					**19**	**16192000.00**	**22**	**16192000.00**	**11**	**9614000.00**	**5**	**3036000.00**	**4**	**2530000.00**	**61**	**47564000.00**
6	**Administration**															
	a	WC office expenditure	No.	36000	4	144000	4	144000	4	144000	4	144000	4	144000		7,20,000
	b	WS secretary Salary	No.	48000	4	192000	4	192000	4	192000	4	192000	4	192000		9,60,000
	c	Stationary & miscellaneous	-	-	-	1208000	-	1208000	-	1208000	-	1208000	-	1208000		60,40,000
	d	Salary of Accountant	No.	264000	1	264000	1	264000	1	264000	1	264000	1	264000		13,20,000
	e	Salary of DEO	No.	216000	1	216000	1	216000	1	216000	1	216000	1	216000		10,80,000
Total						**2024000**		**2024000**		**2024000**		**2024000**		**2024000**		**101,20,000**

1	2	3	4	5	6		7		8		9		10		11	
Sl. No	Component	Activities	Unit	Unit Cost (Rs.)	1st year		2nd year		3rd year		4th year		5th year		Total	
					Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)
7	**Detail Project Report (DPR)**															
	a	Monitoring & Evaluation	No.	506000	-	-	1	506000	1	506000	1	506000	1	506000	4	2024000
	Total				-	-	**1**	**506000**	**1**	**506000**	**1**	**506000**	**1**	**506000**	**4**	**2024000**
8	**Detail Project Report (DPR)**															
	a	DPR preparation including Socio-economic survey, PRA etc.	No.	1012000	1	1012000	-	-	-	-	-	-	-	-	1	1012000
	Total				**1**	**1012000**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**1**	**1012000**
9	**Natural resource Management Governance**															
	i	Maintenance of created assett														
	a	Meeting with PRI	No.	5000	8	40000	8	40000	8	40000	8	40000	-	-	32	160000
	b	Preparation of overall Project Development Plan	No.	5000	4	20000	4	20000	4	20000	4	20000	-	-	16	80000
	c	Meeting with Annual Audit	No.	5000	2	10000	2	10000	2	10000	2	10000	-	-	8	40000
	II	Water Budgeting											-	-		
	a	Ground Water Monitoring (twice a year)	No.	10000	21	210000	21	210000	21	210000	21	210000	-	-	84	840000
	b	Training for the Monitoring Exercise	No.	20000	3	60000	3	60000	3	60000	3	60000	-	-	12	240000

1	2	3	4	5	6		7		8		9		10		11	
Sl. No	Component	Activities	Unit	Unit Cost (Rs.)	1st year		2nd year		3rd year		4th year		5th year		Total	
					Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)
	III	Protection & Regulation/ Regeneration of common land (for the protection of the upper reaches of watershed slopes)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	a	Meeting with Departmental Officer & staff of Forest, Agriculture, Veterinary etc. for protection of the upper reaches of watershed slopes)	No.	5000	10	50000	10	50000	10	50000	10	50000	-	-	40	200000
	b	Formation of UG & Mobility	No.	2000	40	80000	40	80000	40	80000	40	80000	-	-	160	320000
	c	Formation of Vouluntary Organization & Mobolity	No.	3000	12	36000	12	36000	12	36000	12	36000	-	-	48	144000
Total					**1**	**506000**	**1**	**506000**	**1**	**506000**	**1**	**506000**	**-**	**-**	**4**	**2024000**
10	**Consolidation & Withdrawal Phase**															
	a	Consolidation & Withdrawal Phase	No.	3036000	-	-	-	-	-	-	-	-	1	3036000	1	3036000
Total					**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**1**	**3036000**	**1**	**3036000**
GRAND TOTAL						**253,00,000.00**		**253,00,000.00**		**253,00,000.00**		**151,80,000.00**		**101,20,000.00**		**1012,00000.00**

Table No. 7.2 Estimated Benefit Cost Ratio:

Sl. No.	Name of the activity	Total Cost (Rs.)	Total Benefit expected * (Rs.)	BCR	Remarks
	EPA	20,24,000.00	23,27,600.00	1.15:1	The benefit cost ratio will further increase from the next year.
	NRM	475,64,000.00	665,89,600.00	1.40:1	
	PE	151.80,000.00	258,06,000.00	1.70:1	
	Livelihood for Asset less	151.80,000.00	258,06,000.00	1.70:1	
	Institution and Capacity building	30,36,000.00	36,43,200.00	1.20:1	
	Overall	829,84,000.00	1241,72,400.00	1.50:1	

***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:

Sl. No	Component	Implementation Phase								Consolidation/exit Phase		Total
		1 year		2nd year		3rd year		4th year		5th year		
		Phy (No/ Unit)	Fin (Rs.)	Phy (No/ Unit)	Fin (Rs.)	Phy (No/	Fin (Rs.)	Phy (No/ Unit)	Fin (Rs.)	Phy (No/ Unit)	Fin (Rs.)	
1	Entry Point Activities (2%)	2%	20,24,000.00	-	-	-	-	-	-	-	-	20,24,000.00
2	DPR Preparation by PIA(1%)	1%	10,12,000.00	-	-	-	-	-	-	-	-	10,12,000.00
3	Institution & Capacity Building (3%)	1.5%	15,18,000.00	0.5%	5,06,000.00	0.5%	5,06,000.00	0.25%	2,53,000.00	0.25%	2,53,000.00	30,36,00000
4	Productivity Enhancement (15%)	1%	10,12,000.00	3%	30,36,000.00	6%	60,72,000.00	4.25%	43,01,000.00	0.75%	7,59,000.00	15,18,0000.00
5	Livelihoods for Asset less (15%)	1%	10,12,000.00	2.5%	25,30,000.00	6%	60,72,000.00	4.5%	45,54,000.00	1%	10,12,000.00	15,18,0000.00
6	Natural Resource Management (47%)	16%	161,92,000.00	16%	161,92,000.00	9.5%	96,14,000.00	3%	30,36,000.00	2.5%	25,30,000.00	475,64000.00
7	Monitoring (2%)	-	Nil	0.5%	5,06,000.00	0.5%	5,06,000.00	0.5%	5,06,000.00	0.5%	5,06,000.00	20,24,000.00
8	NRM & Governance (2%)	0.5%	5,06,000.00	0.5%	5,06,000.00	0.5%	5,06,000.00	0.5%	5,06,000.00	-	Nil	20,24,000.00
9	Consolidation phase (3%)	-	Nil	-	Nil	-	Nil	-	Nil	3%	30,36,000.00	30,36,000.00
10	Management Cost (10 %)	2%	20,24,000.00	2%	20,24,000.00	2%	20,24,000.00	2%	20,24,000.00	2%	20,24,000.00	101,20,000.00
Total		**25%**	**253,00,000.00**	**25%**	**253,00,000.00**	**25%**	**253,00,000.00**	**15%**	**151,80,000.00**	**10%**	**101,20,000.00**	**1012,00,000.00**

CHAPTER – 9
EXPECTED OUTCOMES

9.1 Describe in detail the "Expected Outcomes"

Employment has always been a problem in the village. The principal occupations of the people are land agriculture, animal husbandry and casual labour work. However, rain fall being periodic hence agriculture suffers, i.e. at best they can take only a single crop, which keeps them partially engaged for about 6-7 months. Lack of fodder makes animal husbandry very difficult too. So, animal husbandry does not keep them engaged full time. Thus the people mainly depend upon casual labour, either in the village itself or outside it. The project plans for creation of both wage employment and self employment opportunities. Wage employment would be created by engaging people in watershed physical works like construction of earthen bunds, farm bunds, village pond, plantation, etc. Self employment would be created by providing the people with cash support in the form of direct livelihood activities like agriculture, animal husbandry and enterprise development.

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

1	2	3	4	5	6
Sl. No.	Item	Unit of measurement	Pre-project Status	Expected Post-project Status	Remarks
1	Status of water table (Depth to Ground water level)	Meters	9.00	8.4	
2	Ground water structures repaired/ rejuvenated	No.	NA	NA	
3	Quality of drinking water	Description	Treated	Potable	
4	Availability of drinking water	Description	70%	90%	
5	Increase in irrigation potential	Hec.	-	1000	
6	Change in cropping/ land use pattern	Description	From single	To double & multiple	
7	Area under agricultural crop	Hec.	4651.60	4763.20	
	i Area under single crop	Hec.	4488.4	4553.2	
	ii Area under double crop	Hec.	100.2	130.00	
	iii Area under multiple crop	Hec.	63.0	80.00	
8	Net increase in crop production area	Hec.	5997.50	6421.00	
9	Increase in area under Vegetation/Forest	Hec.	-	13.00	
10	Increase in area under horticulture	Hec.	-	10.00	
11	Increase in area under fuel	Hec.	-	2.00	
12	Increase in area under Fodder	Hec.	-	7.00	
13	Increase in milk production	Litres/day	0.5 to 2.0	2.0 to 3.5	Per household
14	Environmental Impact Change in Soil Loss Perenniality of flow and change in Run-off Recharge of ground water	Tone/Hact/ Year	15.00	9.00	
15	No. of SHGs Promoted	No.	-	100 (newly formed)	

1	2	3	4	5	6
Sl. No.	Item	Unit of measurement	Pre-project Status	Expected Post-project Status	Remarks
15	No. of SHGs Promoted	No.	-	100 (newly formed)	
16	Increase in no. of livelihoods	No.	-	607	
17	Increase in income	Rs.	10,000.00	15,000.00	Per HH/month
18	Status of Migration	No.	3820	3056	
19	SHG Federations formed	No.	-	1	
20	Credit linkage with banks	Rs.	-	40.00 lakhs	
21	Resource use agreements		Does not exist	Initiated	
22	WDF collection & management	Rs.	Nil	38,96,200.00 lakhs	
23	Summary of lessons learnt	Description Area could progress and become self-sufficient if irrigation potential is enhanced, assetless are roped under livelihood generation/micro-enterprises activities with several other techno economic/socio-economic efforts			

Table No.9.3: Backward and Forward Linkages:

Type of Marketing Facility	Name of the institution	Pre-project (no.)	Expected post project status
(A) Backward linkages			
(i) Seed certification	Govt. of Assam	Nil	Will be done
(ii) Seed supply system	Co-operative and Agriculture Dept.	Nil	Strong Seed supply system will be developed
(iii) Fertilizer supply System	Co-operative and local fertilizer dealer	Nil	Strong Fertilizer supply system will be developed
(iv) Pesticide supply System	Local Pesticide Dealer	Nil	Strong Pesticide supply system will be developed
(v) Credit institutions	Co-operative Bank, SHG, Local Bank, Nodal Bank etc.	168	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	Nil	Will be developed
(vii) Extension services	KVK, ATMA, Agriculture Dept.,NGOs	5	Strong extension services will be developed among all institutions
(viii) Nurseries	SHG, Horticulture Nursery, Local Nursery	7	Strong extension services will be developed among all institutions
(ix) Tools/machinery Suppliers	Ag Deptt	4	Will Continued
(x) Price Support System	Ag Deptt, Vetty Dept.	3	Will Continued
(xi) Labour	Local wage labour	365	Strong network will be developed
(B) Forward linkages			Strong network will be developed
(i) Harvesting/threshing Machinery	Local level	2	Strong network will be developed
(ii) Storage (including cold storage)	Local level	1	Strong network will be developed
(ii) Road network	Local level	3	Strong network develop
(iii) Transport facilities	Local level	2	Strong network develop
(v) Markets / Mandis	Local committee, Cooperative	Nil	Institution will take initiative so that beneficiaries will get better opportunities.
(vi) Agro and other Industries	Local committee, Cooperative	Nil	Institution will take initiative so that beneficiaries will get better opportunities.
(vii) Milk and other collection centres	Local committee, Cooperative	Nil	Institution will take initiative so that eneficiaries will get better opportunities.

ANNEXURE -II

SDG Format

TOTAL TARGET AREA TO BE TREATED

DURING IMPLEMENTATION OF THE PROJECT UNDER WDC-PMKSY2.0

DISTRICT : MAJULI

PROJECT : MAJULI-1/2021-22 (LOWER TUNI) WDC-PMKSY 2.0

Sl. No.	Component	List of activities (As per 5 Year Action Plan)			Total Treatable Area to be Benefitted (Ha)
		Name of Activities (Structure)	Name of village	Plot No. (including name of the local patch)	
1	NRM Works	Agri Bund	Motiabari	Motiabari pathar	92.00
2			Chumaimari	Arjungurupathar	168.00
3			Motiabari	Mohanpur to Malowkuwa Pathar	103.00
4			Gagol Duba	Gagol Duba to Habisora	88.00
5			Motiabari	Debotor Pathar	128.00
6			Bonkhuwachuk	Kumarchapori Pathar	133.00
7			Totaya	Kaundara Pathar	108.00
8			Kamar Gaon	Simoluguri Pathar	172.00
9			Bhurasensuwa	Sola Pathar	83.00
10			Mekheli Gaon	Charinga Pathar	68.00
11			Bhurasensuwa	Bihidia Pathar	112.00
12			No.2 Bhuramara	Amguri Pathar	48.00
13			Kamar gaon	Nidikibari Pathar	109.00
14			Bongaon	P.W.D Road to Shengali Morajan	123.00
15			Mudai Tati	Phukhuri Poria Chuk to Dalani Pathar	58.00
16			Jugi Gaon	P.W.D to Jugi Pathar	140.00
17			Mudoi Tanti	Ruwati Pathar to Bonkuwachuk	66.00
18			Chamuguri	Chamuguri Bonia Pathar	49.00
19			Bongaon	PWD to Changalimora Pathar	80.00
20			Goroimari	Afolamukh Pathar	34.00
21			Dakhinpat	Moghuli Pathar (Koroni Ati)	164.00
22			Radha Chapori	Chenimari Jan to Dakhinpath Kumar Gaon	128.00
23		Reclamation of Drainage Channel	Chumoimari	Arjunguri Pathar	68.00
24			Motiabari	Malowkhuwa Pathar	27.00
25			Chamuguri Bonia	Chamuguri Dolani Pathar to Bihidiya Beel	100.00
26			Dhowachala	Bhagemari	94.00
27			Borboka	Borboka Pathar	112.00
28			Radhachapori	Kawoi Mari Jan	44.00
29			Dakhinpat Satra	Chenimari-Magurmara	54.00
30		Brick Channel	1 No. Karhal Gaon	Bezguri Pathar	161.00

Sl. No.	Component	List of activities (As per 5 Year Action Plan)			Total Treatable Area to be Benefitted (Ha)
		Name of Activities (Structure)	Name of village	Plot No. (including name of the local patch)	
31	NRM Works	Reclamation of Marshy land by Box Culvert	Radhachapori	Rani Narah Path	48.00
32			Radhachapori	Natun Chubur	48.00
33			Radhachapori	Mohbat Path Dakhinpat Kumar Gaon	50.00
34			Borbuka Pathar	Borbuka Pathar	87.00
35			Samaguri Satra	Samaguri Bonia Gaon	71.00
36			Chakoli Pathar	Construction of Box Culvert at Chakali Pathar	70.00
37			Tataya	Khaundbari Gaon	68.00
38			Kamar Gaon	Kamar Gaon to Chumoimari	72.00
39			Mekheli Gaon	Chapori Pathar	70.00
40			Gagolduba	Gagolduba Pathar	70.00
41		Renovation of Pond	Potia Goan	Kuh Beel	35.00
32			Mekheli gaon	Chariniya - Ati Beel	55.00
43			2 No.Bhuramora	Khalimari	55.00
44			Bonkhuwachuk	Potiyabari Beel	54.00
45			Totaya	Totaya Pathar-Bhimpur Satra	66.00
46			Mekheli gaon	Tatinga Beel	52.00
47			Chakali Pathar	Chakali Pathar	52.00
48		Construction of Farm Pond	Gagol Duba	Gelapukhuri	83.00
49			Potia gaon	Potia Mandir Beel	42.00
50			Chumoimari	Upper Chumoimari	83.00
51			Motiabari	Burha Kalita	32.00
52			Mudoi Tanti	Balichat Jan	85.00
53			Chakali Pathar	Chakali pond	63.00
54			Jugi Gaon	Jugi pathar	44.00
55			Chamuguri Bonia	Ghura Chara-Ati Pathar	66.00
56			Bongaon	Changalimora jaan	65.00
57			Karhal Gaon	2 . No Karhal Gaon	82.00
58		Vegetative Cover	Chumaimari	Upper Chumaimari	1.00
59			Jugi pathar	Jugi pathar	1.00
60			Chakali Pathar	Chakali Pathar	1.00
61			Chakali Pathar	Chakali Pathar	7.00
Total A					**4592.00**
	Production System land Based	Horticulture Block Plantation	-	-	8.00
Total B					**8.00**
Total C = A + B					**4600.00**

CHAPTER – 10

Table No.10: Area taken up for Treatment:

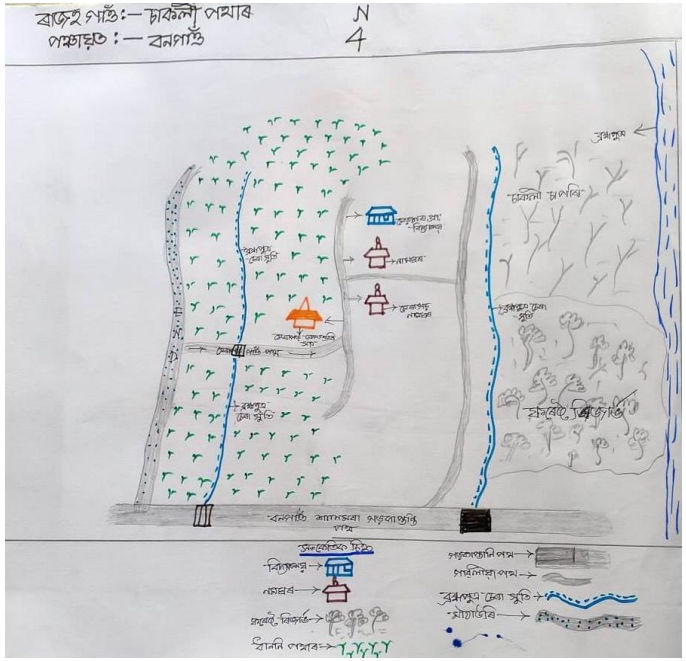
Sl. No.	Component		Total Area taken up for treatment as per DPR (Hact)	
1	NRM Activities	A	a. Soil & Moisture Conservation Structure	2914.00
			b. Water Harvesting Structure	1668.00
			c. Vegetative Cover	10.00
2	Production System (Land Based Activities)	B	a. Reclamation of problematic soils	Nil
			b. Organic Farming	Nil
			c. Horticulture	8.00
Total			C = A + B	4600.00
N.B.: C. Total Target Area to be Treated = Project Treatable Area				

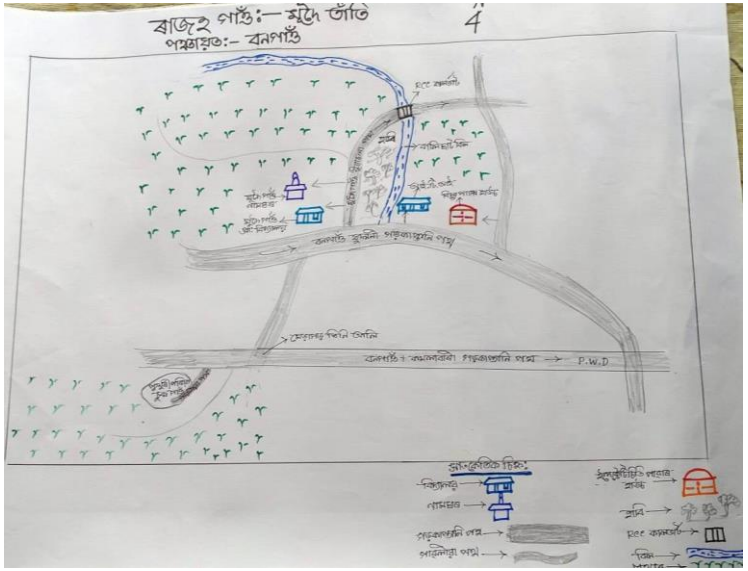
DOOR TO DOOR SOCIO-ECONOMIC SURVEY

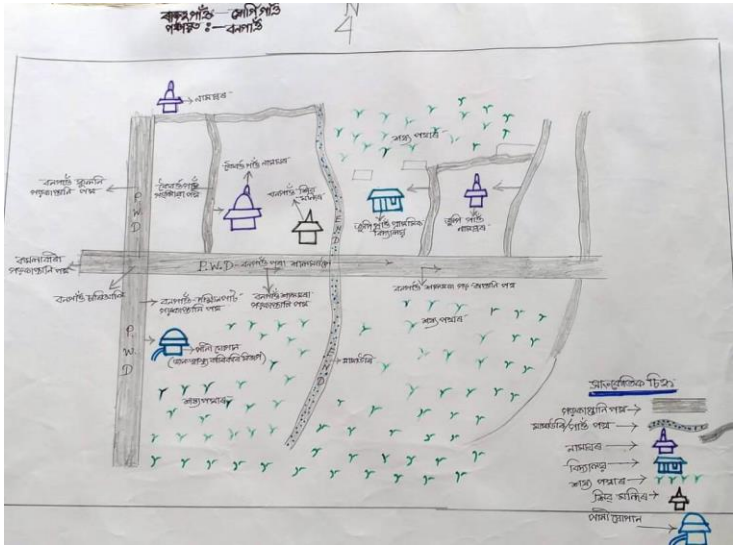
WATERSHED COMMITTEE FORMATION

PRA EXERCISE

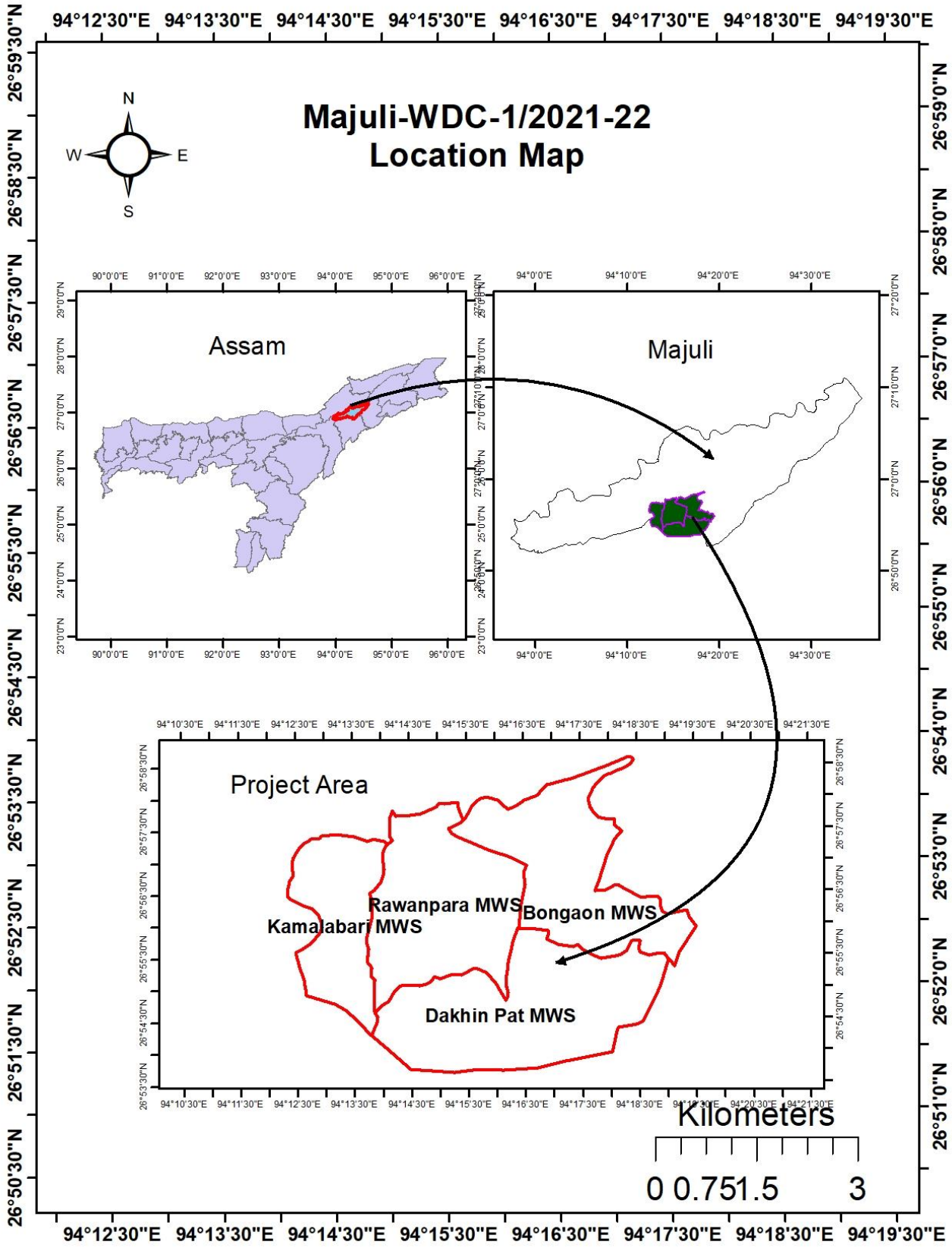
PRA MAPS

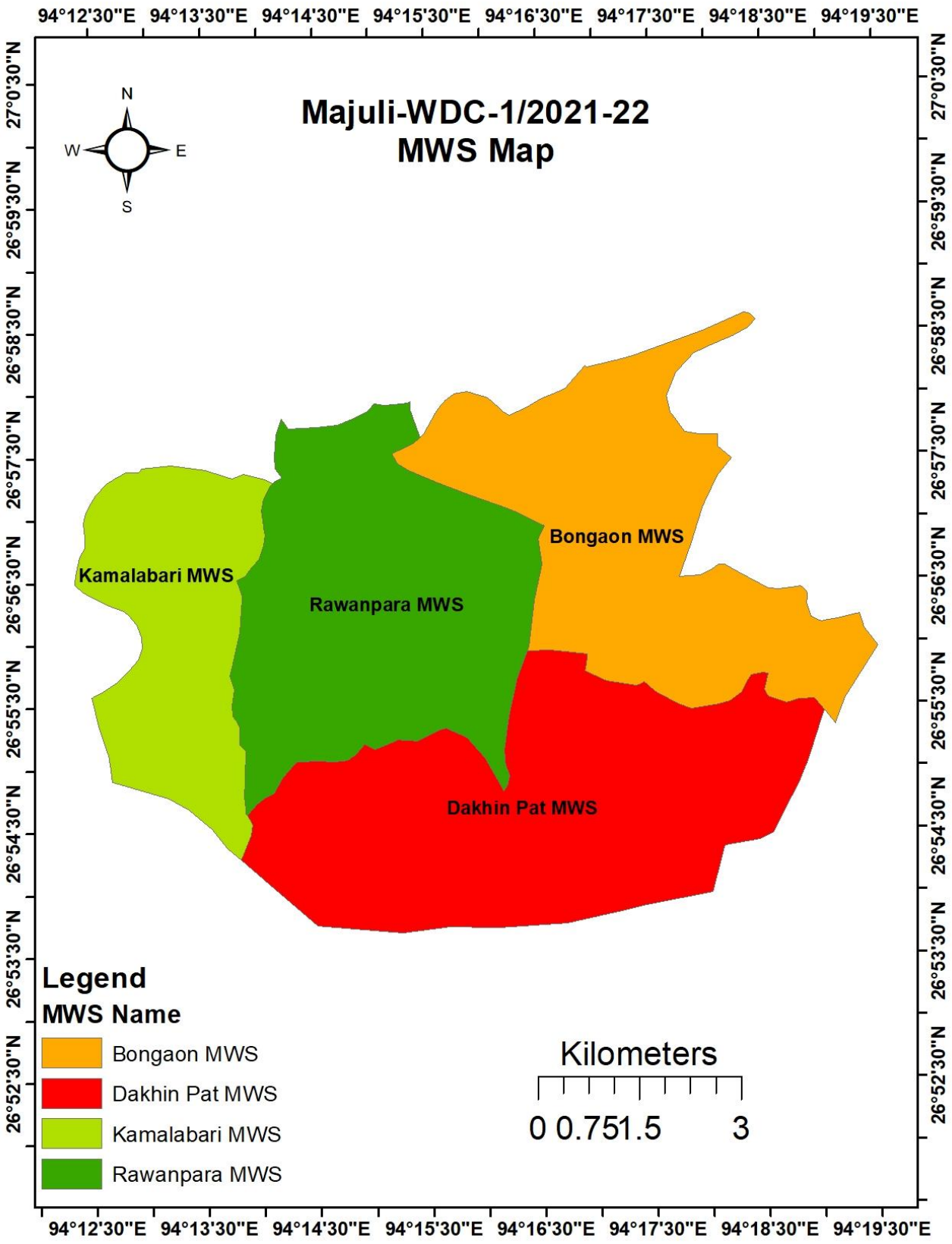


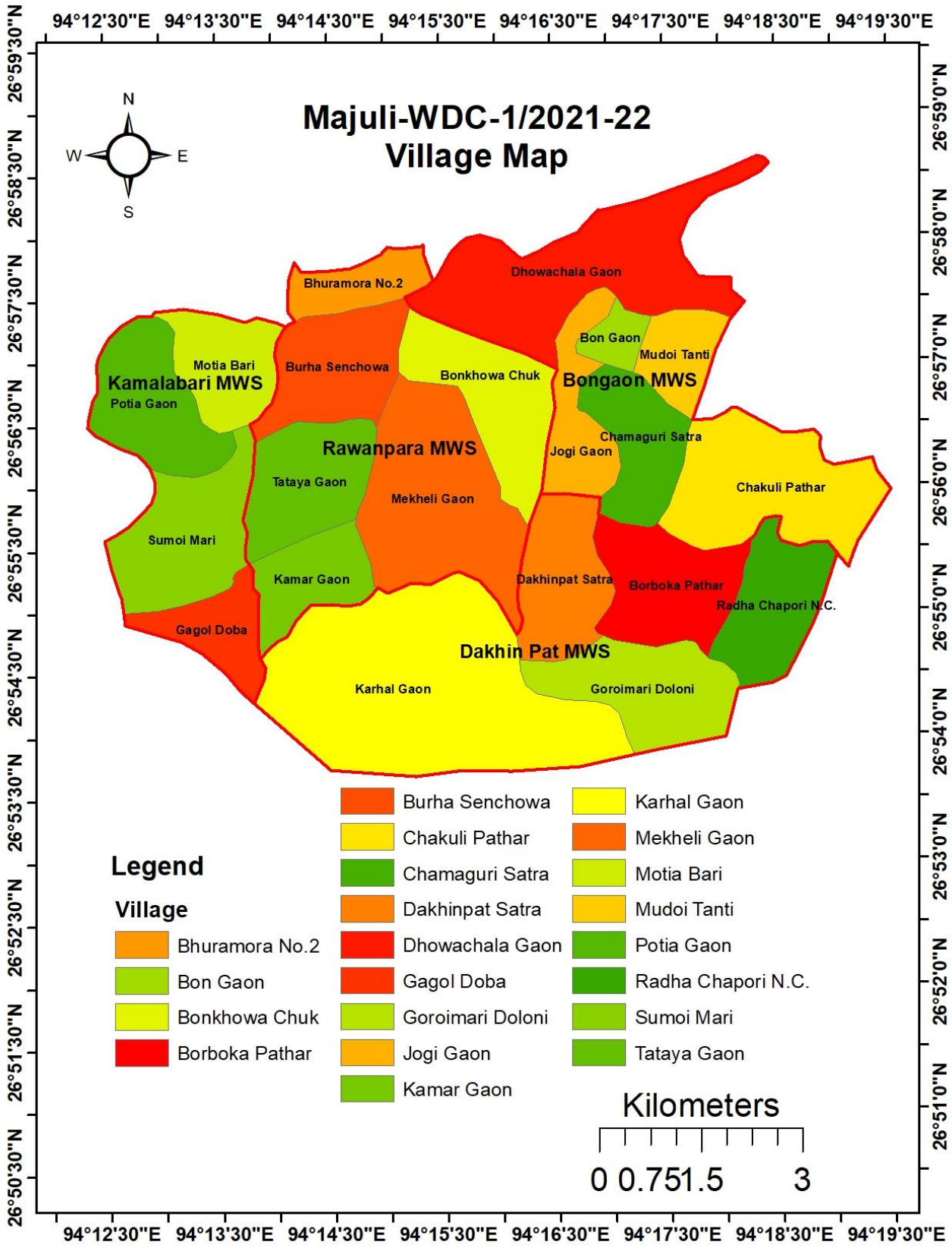


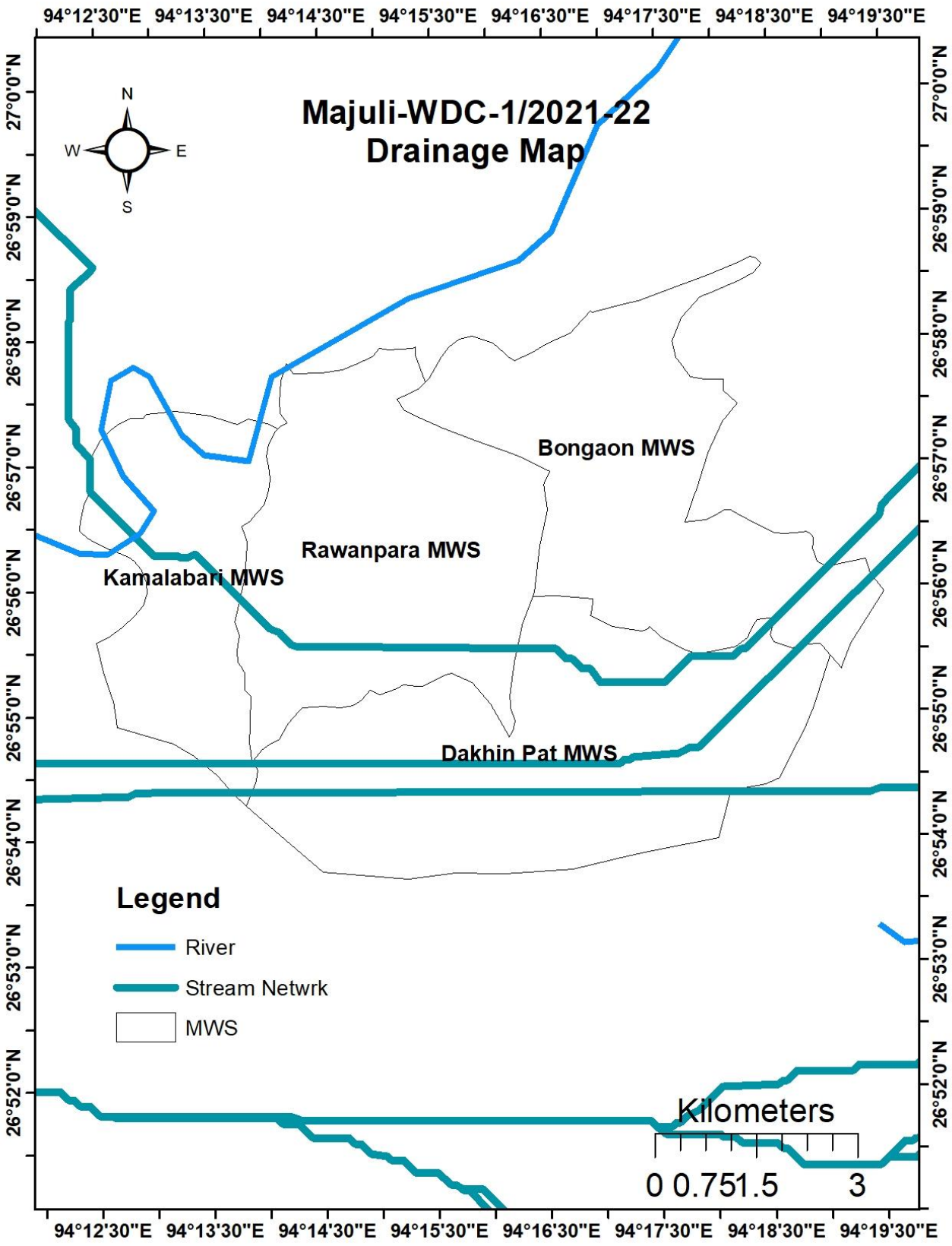


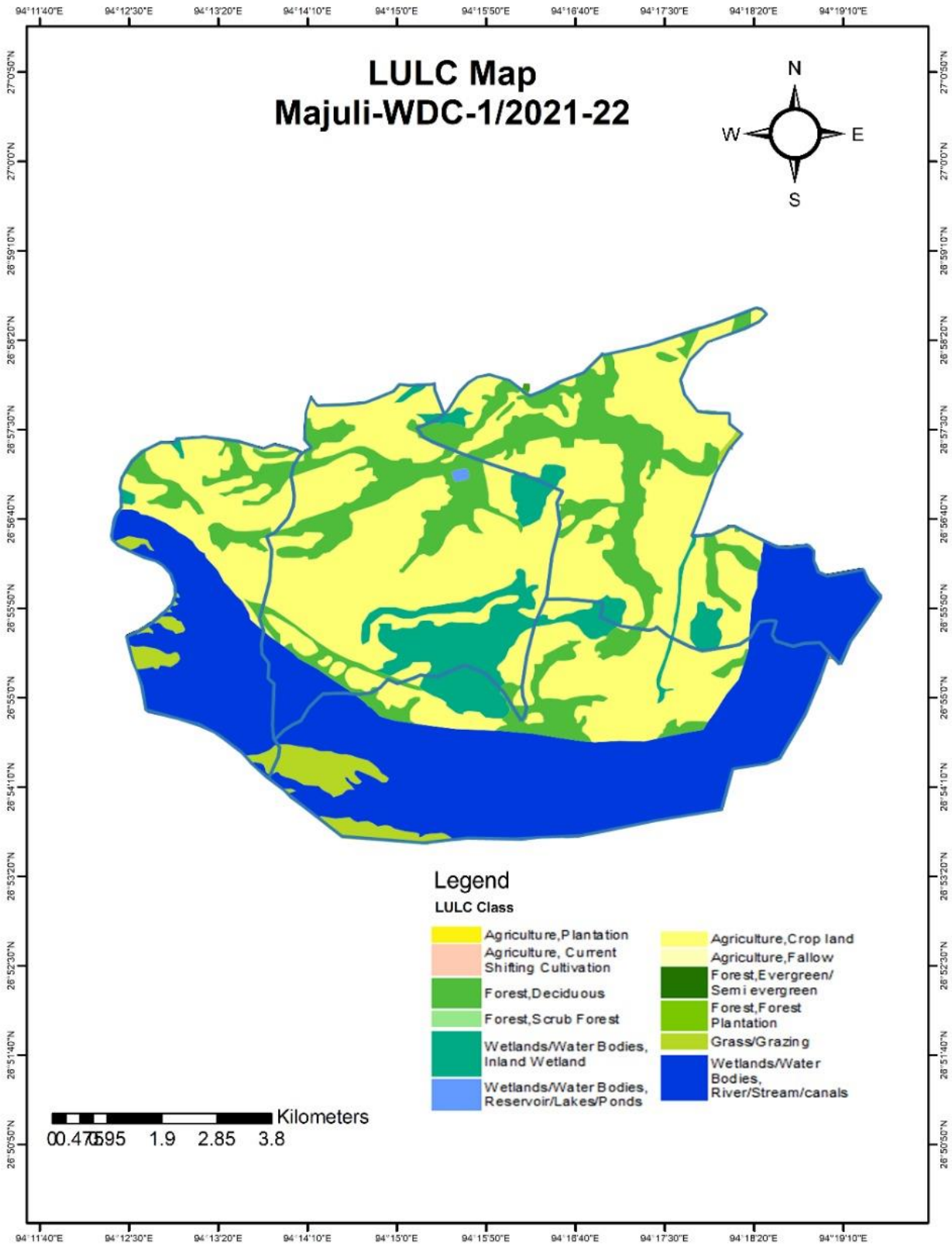
THE PROJECT SITE

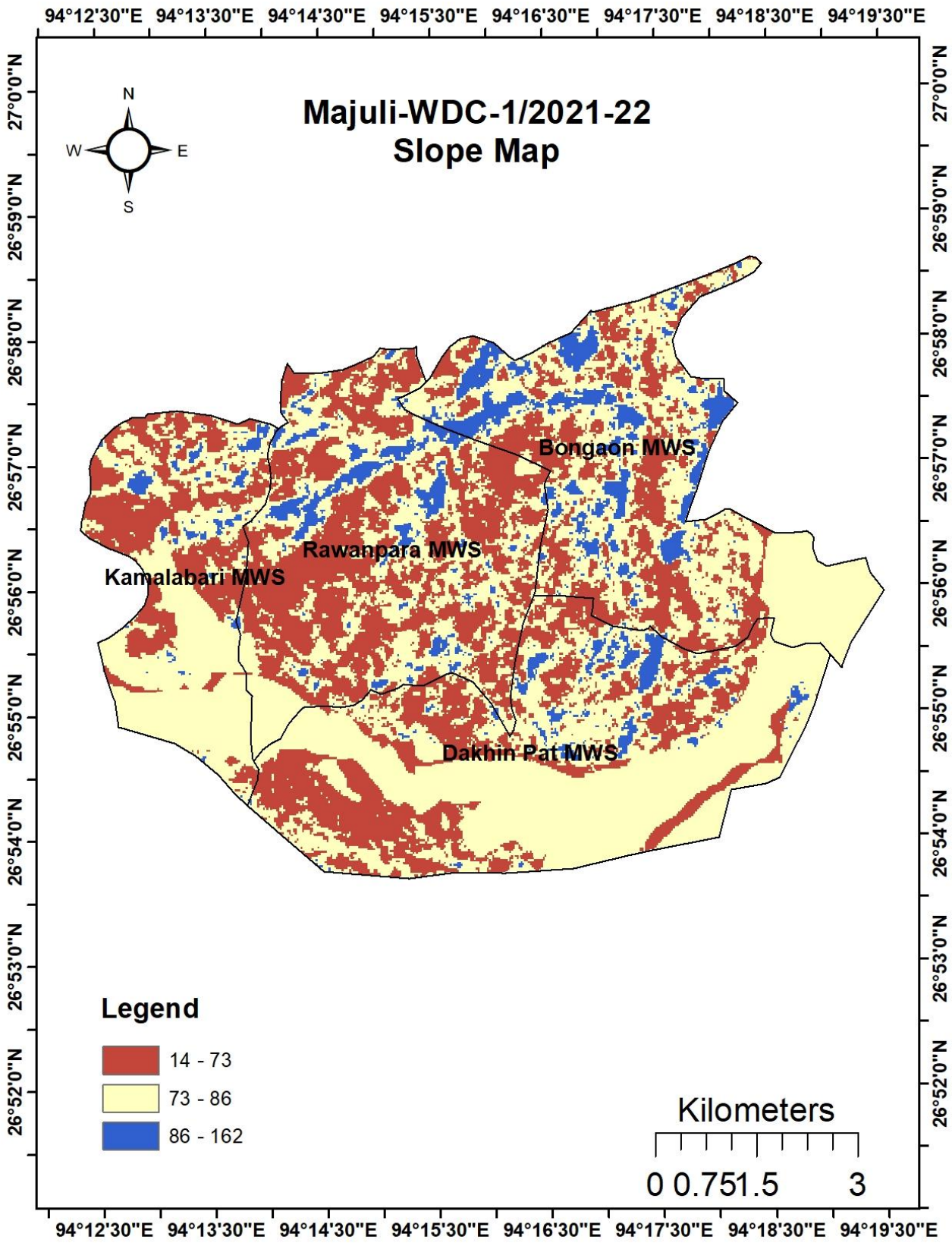

Majuli-WDC-1/2021-22
Location Map
N
W
E
S
Assam
Majuli
Project Area
Rawanpara MWS
Bongaon MWS
Kamalabari MWS
Dakhin Pat MWS
Kilometers
0 0.751.5 3

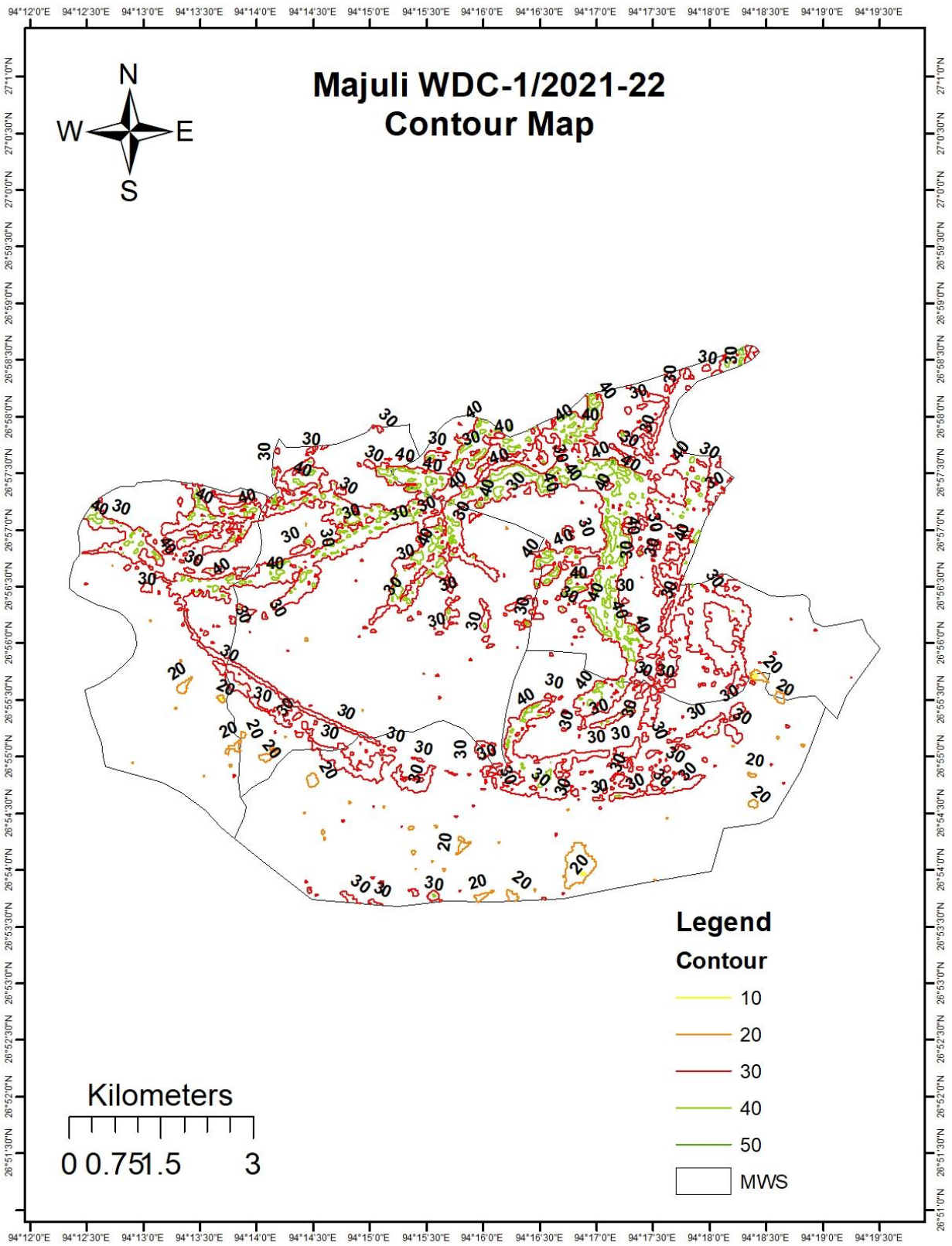

Majuli-WDC-1/2021-22
MWS Map
N
W
E
S
94°12'30"E
94°13'30"E
94°14'30"E
94°15'30"E
94°16'30"E
94°17'30"E
94°18'30"E
94°19'30"E
27°0'30"N
26°59'30"N
26°58'30"N
26°57'30"N
26°56'30"N
26°55'30"N
26°54'30"N
26°53'30"N
26°52'30"N
Bongaon MWS
Kamalabari MWS
Rawanpara MWS
Dakhin Pat MWS
Legend
MWS Name
Bongaon MWS
Dakhin Pat MWS
Kamalabari MWS
Rawanpara MWS
Kilometers
0 0.751.5 3

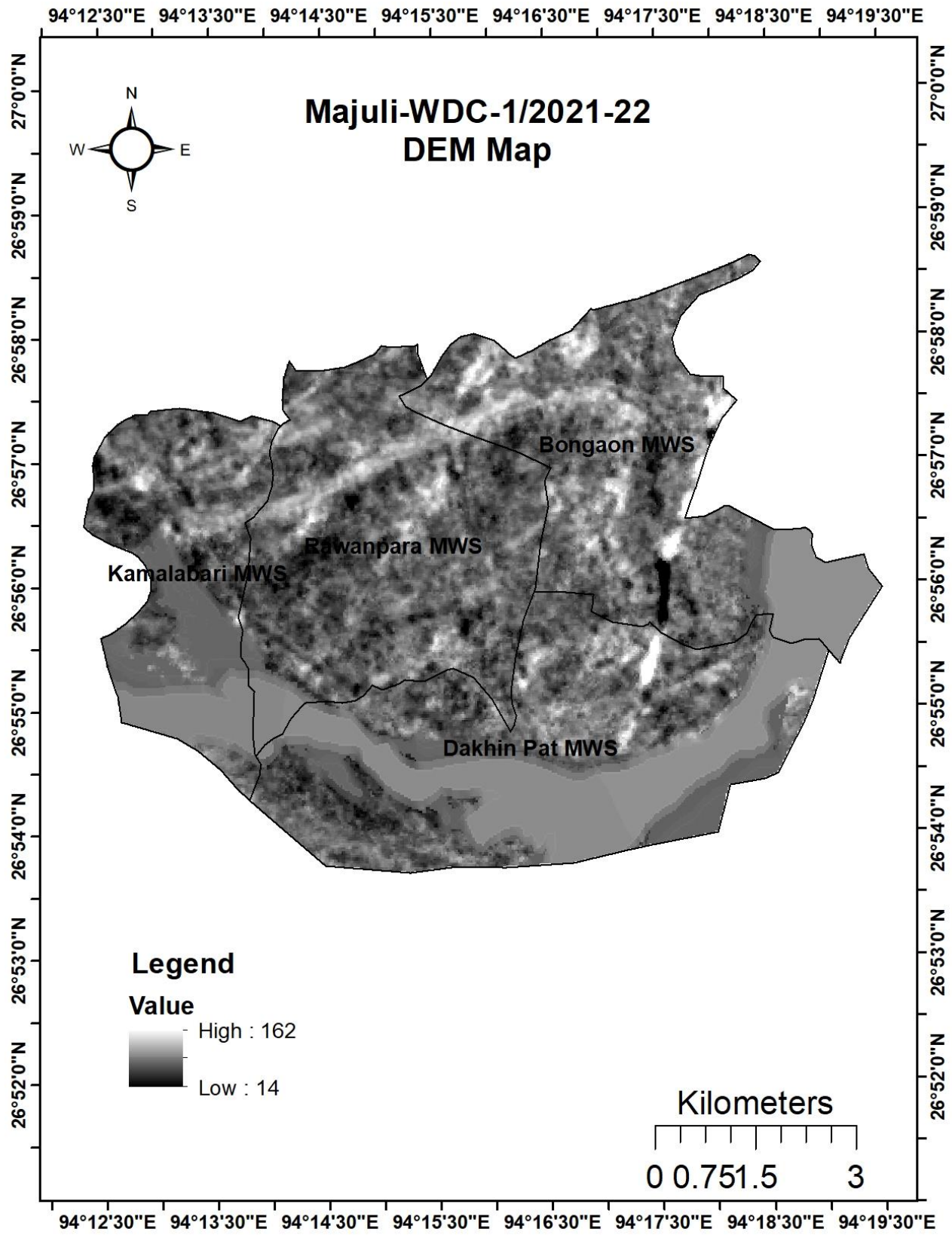

Majuli-WDC-1/2021-22
Village Map
N
W
E
S
94°12'30"E
94°13'30"E
94°14'30"E
94°15'30"E
94°16'30"E
94°17'30"E
94°18'30"E
94°19'30"E
26°59'30"N
26°58'30"N
26°57'30"N
26°56'30"N
26°55'30"N
26°54'30"N
26°53'30"N
26°52'30"N
26°51'30"N
26°50'30"N
26°59'0"N
26°58'0"N
26°57'0"N
26°56'0"N
26°55'0"N
26°54'0"N
26°53'0"N
26°52'0"N
26°51'0"N
Bhuramora No.2
Dhowachala Gaon
Bon Gaon
Mudoi Tanti
Motia Bari
Kamalabari MWS
Potia Gaon
Burha Senchowa
Bonkhowa Chuk
Bongaon MWS
Chamaguri Satra
Rawanpara MWS
Jogi Gaon
Chakuli Pathar
Tataya Gaon
Mekheli Gaon
Sumoi Mari
Kamar Gaon
Dakhinpat Satra
Borboka Pathar
Radha Chapori N.C.
Gagol Doba
Dakhin Pat MWS
Karhal Gaon
Goroimari Doloni
Legend
Village
Bhuramora No.2
Bon Gaon
Bonkhowa Chuk
Borboka Pathar
Burha Senchowa
Chakuli Pathar
Chamaguri Satra
Dakhinpat Satra
Dhowachala Gaon
Gagol Doba
Goroimari Doloni
Jogi Gaon
Kamar Gaon
Karhal Gaon
Mekheli Gaon
Motia Bari
Mudoi Tanti
Potia Gaon
Radha Chapori N.C.
Sumoi Mari
Tataya Gaon
Kilometers
0 0.751.5 3

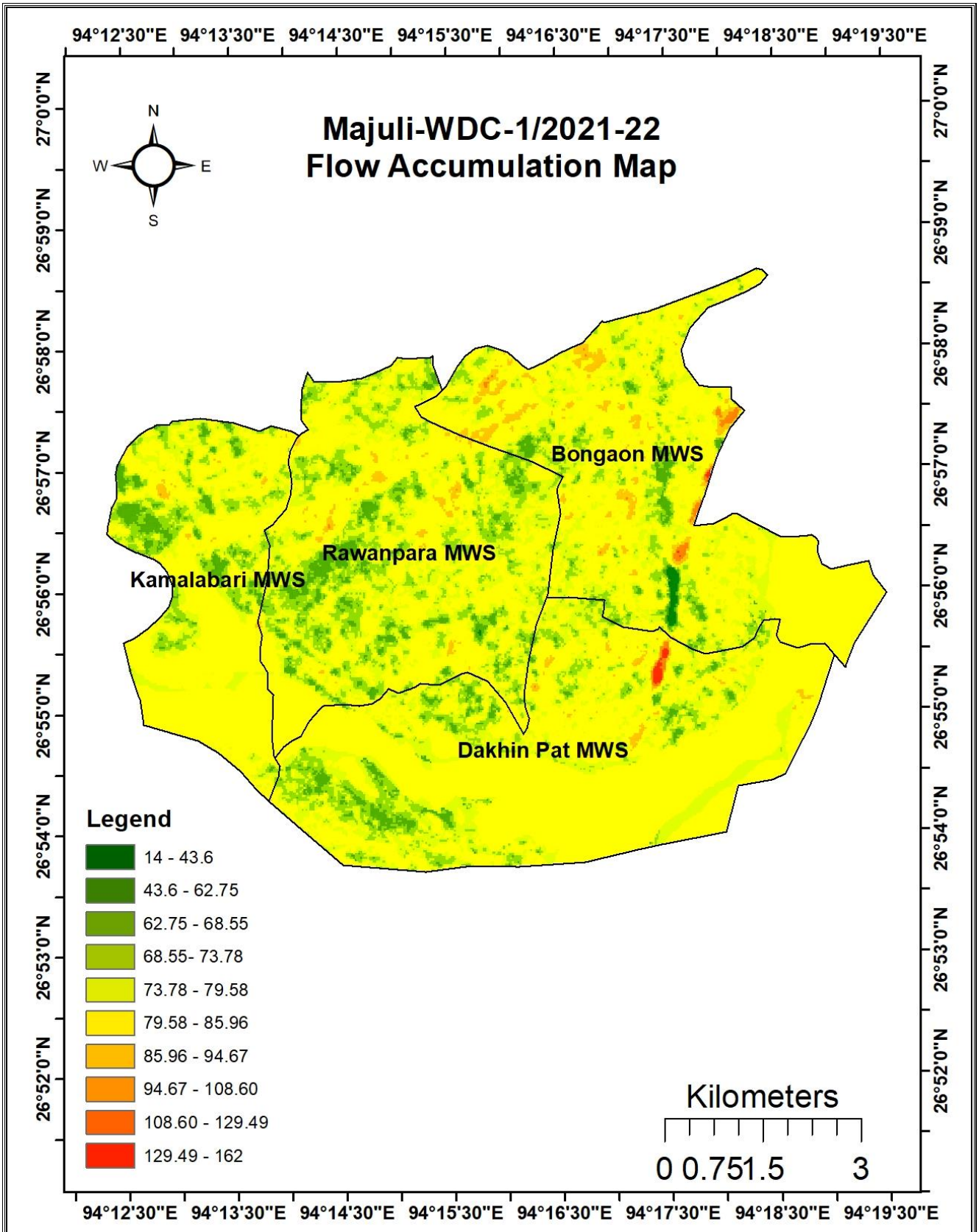

Majuli-WDC-1/2021-22
Drainage Map
N
W
E
S
94°12'30"E
94°13'30"E
94°14'30"E
94°15'30"E
94°16'30"E
94°17'30"E
94°18'30"E
94°19'30"E
27°0'0"N
26°59'0"N
26°58'0"N
26°57'0"N
26°56'0"N
26°55'0"N
26°54'0"N
26°53'0"N
26°52'0"N
Bongaon MWS
Rawanpara MWS
Kamalabari MWS
Dakhin Pat MWS
Legend
River
Stream Netwrk
MWS
Kilometers
0 0.751.5 3

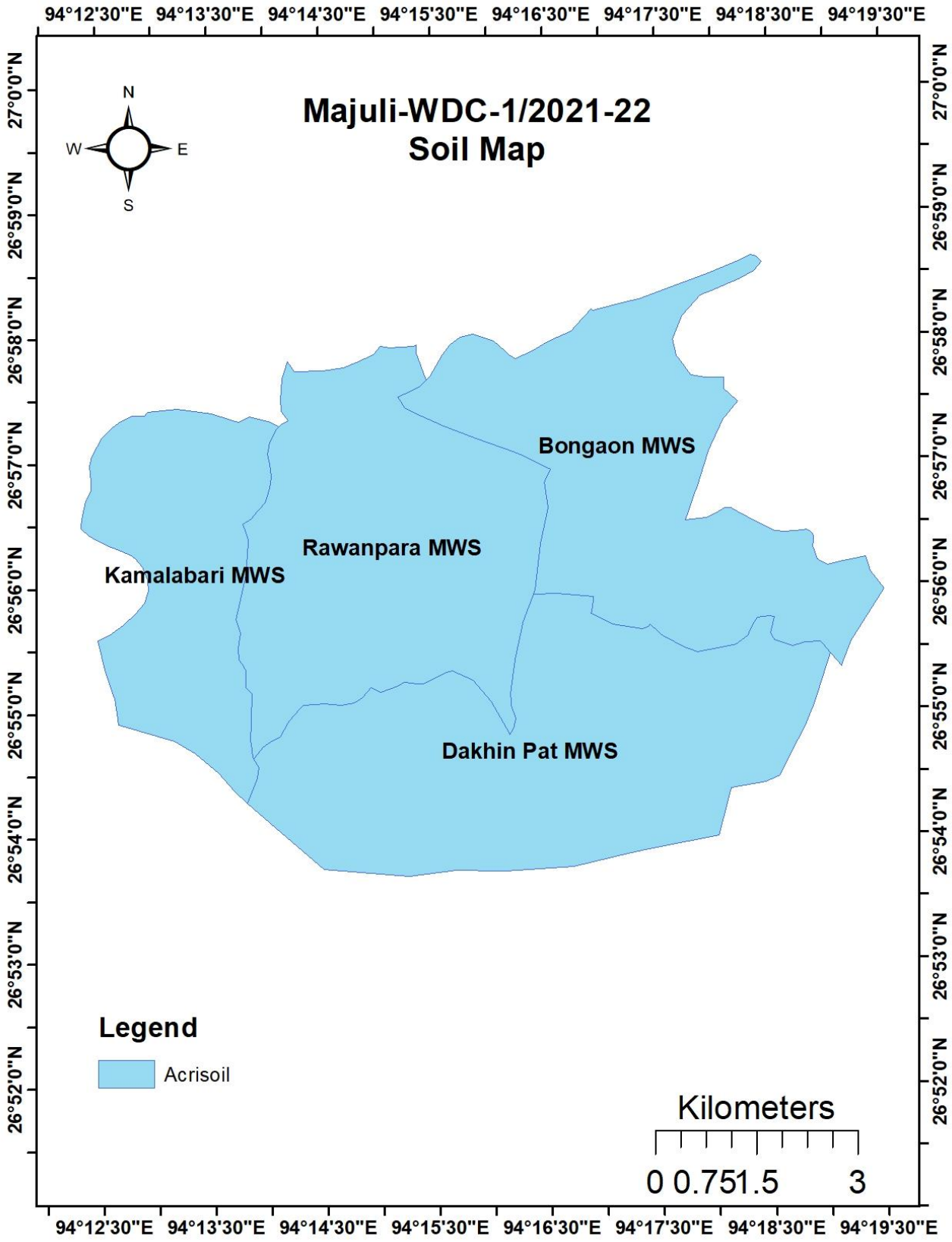

LULC Map
Majuli-WDC-1/2021-22
N
W
E
S
94°11'40"E
94°12'30"E
94°13'20"E
94°14'10"E
94°15'0"E
94°15'50"E
94°16'40"E
94°17'30"E
94°18'20"E
94°19'10"E
27°0'50"N
27°0'0"N
26°59'10"N
26°58'20"N
26°57'30"N
26°56'40"N
26°55'50"N
26°55'0"N
26°54'10"N
26°53'20"N
26°52'30"N
26°51'40"N
26°50'50"N
Legend
LULC Class
Agriculture,Plantation
Agriculture, Current Shifting Cultivation
Forest,Deciduous
Forest,Scrub Forest
Wetlands/Water Bodies, Inland Wetland
Wetlands/Water Bodies, Reservoir/Lakes/Ponds
Agriculture,Crop land
Agriculture,Fallow
Forest,Evergreen/ Semi evergreen
Forest,Forest Plantation
Grass/Grazing
Wetlands/Water Bodies, River/Stream/canals
Kilometers
0 0.475 0.95 1.9 2.85 3.8

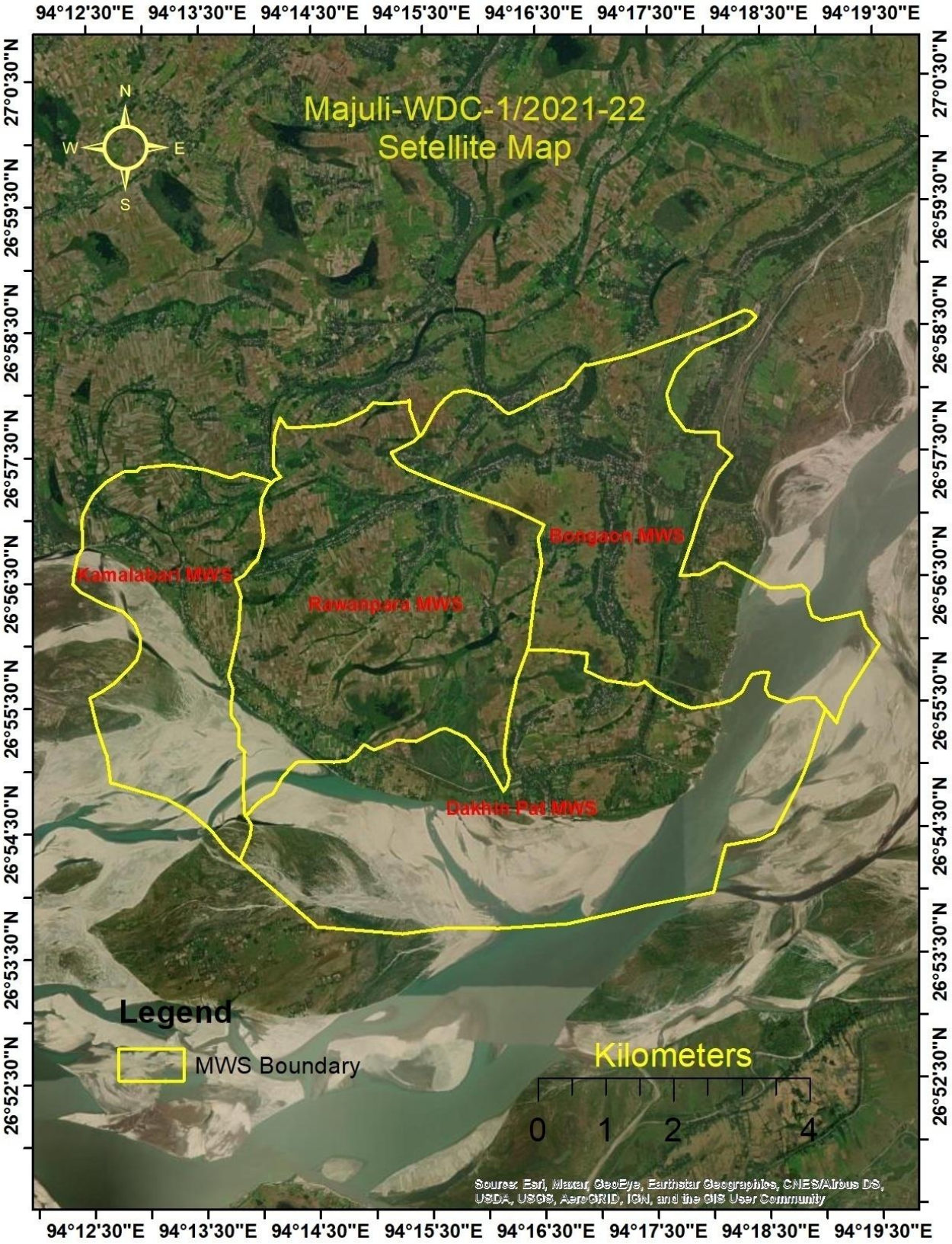

Majuli-WDC-1/2021-22
Slope Map
N
W
E
S
94°12'30"E
94°13'30"E
94°14'30"E
94°15'30"E
94°16'30"E
94°17'30"E
94°18'30"E
94°19'30"E
27°0'0"N
26°59'0"N
26°58'0"N
26°57'0"N
26°56'0"N
26°55'0"N
26°54'0"N
26°53'0"N
26°52'0"N
Bongaon MWS
Rawanpara MWS
Kamalabari MWS
Dakhin Pat MWS
Legend
14 - 73
73 - 86
86 - 162
Kilometers
0 0.751.5 3

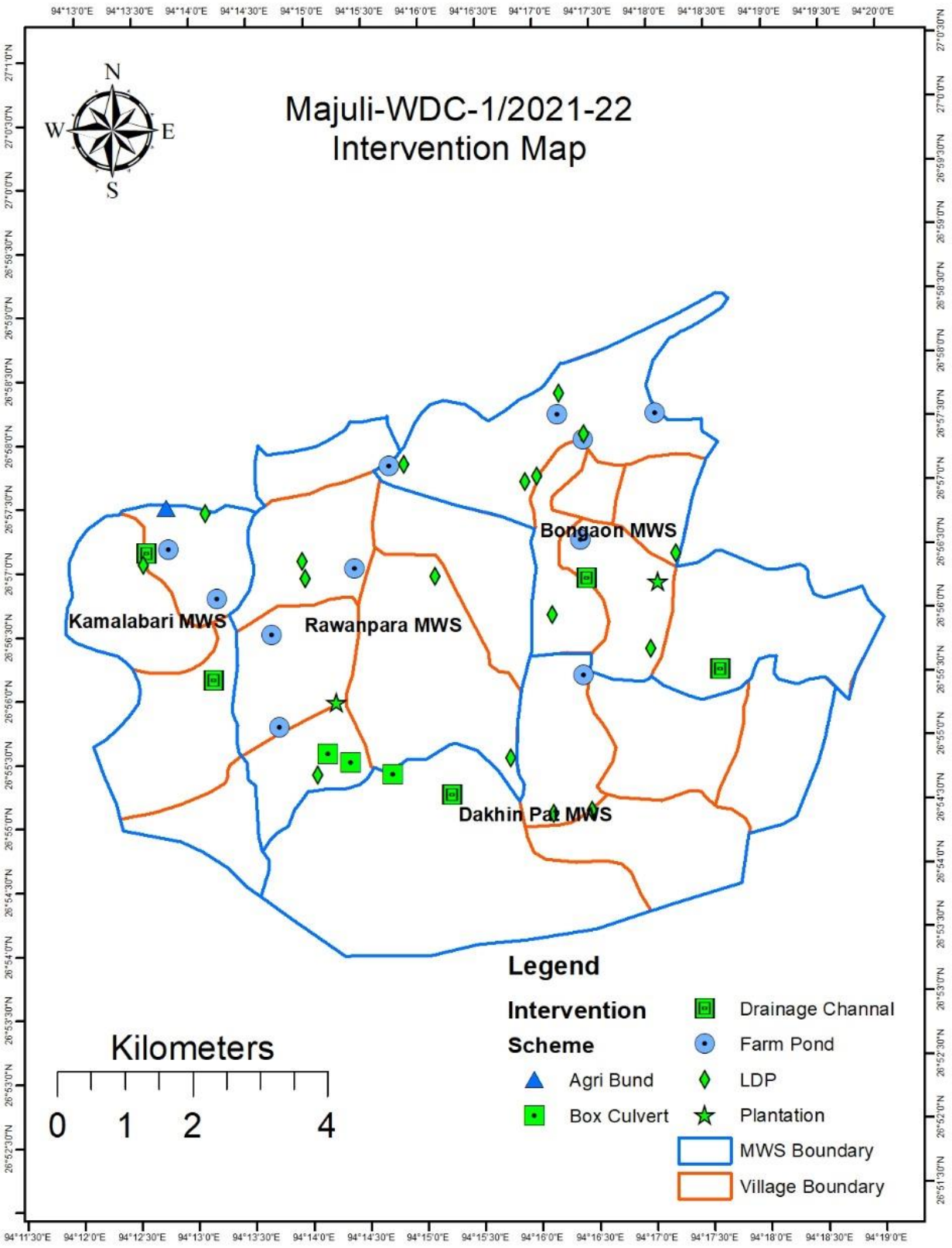

Majuli WDC-1/2021-22
Contour Map
N
W
E
S
94°12'0"E
94°12'30"E
94°13'0"E
94°13'30"E
94°14'0"E
94°14'30"E
94°15'0"E
94°15'30"E
94°16'0"E
94°16'30"E
94°17'0"E
94°17'30"E
94°18'0"E
94°18'30"E
94°19'0"E
94°19'30"E
27°1'0"N
27°0'30"N
27°0'0"N
26°59'30"N
26°59'0"N
26°58'30"N
26°58'0"N
26°57'30"N
26°57'0"N
26°56'30"N
26°56'0"N
26°55'30"N
26°55'0"N
26°54'30"N
26°54'0"N
26°53'30"N
26°53'0"N
26°52'30"N
26°52'0"N
26°51'30"N
26°51'0"N
Legend
Contour
10
20
30
40
50
MWS
Kilometers
0 0.751.5 3


Majuli-WDC-1/2021-22
DEM Map
N
W
E
S
94°12'30"E
94°13'30"E
94°14'30"E
94°15'30"E
94°16'30"E
94°17'30"E
94°18'30"E
94°19'30"E
27°0'0"N
26°59'0"N
26°58'0"N
26°57'0"N
26°56'0"N
26°55'0"N
26°54'0"N
26°53'0"N
26°52'0"N
Bongaon MWS
Rawanpara MWS
Kamalabari MWS
Dakhin Pat MWS
Legend
Value
High : 162
Low : 14
Kilometers
0 0.751.5 3


Majuli-WDC-1/2021-22
Flow Accumulation Map
N
W
E
S
94°12'30"E
94°13'30"E
94°14'30"E
94°15'30"E
94°16'30"E
94°17'30"E
94°18'30"E
94°19'30"E
27°0'0"N
26°59'0"N
26°58'0"N
26°57'0"N
26°56'0"N
26°55'0"N
26°54'0"N
26°53'0"N
26°52'0"N
Bongaon MWS
Rawanpara MWS
Kamalabari MWS
Dakhin Pat MWS
Legend
14 - 43.6
43.6 - 62.75
62.75 - 68.55
68.55- 73.78
73.78 - 79.58
79.58 - 85.96
85.96 - 94.67
94.67 - 108.60
108.60 - 129.49
129.49 - 162
Kilometers
0 0.751.5 3


Majuli-WDC-1/2021-22
Soil Map
N
W
E
S
94°12'30"E
94°13'30"E
94°14'30"E
94°15'30"E
94°16'30"E
94°17'30"E
94°18'30"E
94°19'30"E
27°0'0"N
26°59'0"N
26°58'0"N
26°57'0"N
26°56'0"N
26°55'0"N
26°54'0"N
26°53'0"N
26°52'0"N
Bongaon MWS
Rawanpara MWS
Kamalabari MWS
Dakhin Pat MWS
Legend
Acrisoil
Kilometers
0 0.751.5 3


Majuli-WDC-1/2021-22
Setellite Map
N
W
E
S
94°12'30"E
94°13'30"E
94°14'30"E
94°15'30"E
94°16'30"E
94°17'30"E
94°18'30"E
94°19'30"E
27°0'30"N
26°59'30"N
26°58'30"N
26°57'30"N
26°56'30"N
26°55'30"N
26°54'30"N
26°53'30"N
26°52'30"N
Kamalabari MWS
Rawanpara MWS
Bongaon MWS
Dakhin Pat MWS
Legend
MWS Boundary
Kilometers
0 1 2 4
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



Sources of maps

1. Open Source ORNL DAAC
2. Indian Geo-Platform of ISRO
3. Google Earth Pro