

DETAIL PROJECT REPORT

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

**DHUBRI -I/2021-22 (DHAKABEEL SOUTH)
WDC-PMKSY 2.0
2021-22**

Submitted to:

State Level Nodal Agency, IWMP Assam

RGB Road, Guwahati

Submitted By:

Project Implementing Agency,

Dhubri -I/2021-22 (Dakabeel South) WDC-PMKSY 2.0

Cum

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

DETAILED PROJECT REPORT

WDC-PMKSY

(DHUBRI-I/2021-22 (DHAKABEEL SOUTH) WDC PMKSY 2.0)

Micro Watershed : 1. Dumardaha 2. Rowah 3. Borbila 4. Jhagra

Micro Watershed Code No :1. 3A1F1c5, 2. 3A1F1c4, 3. 3A1F1c3,
4. 3A1F1b7

IWMP project : DHUBRI-I/2021-22 (Dhakabeel South) WDC-PMKSY 2.0

Block : Gauripur & Dhubri

District :Dhubri

Name of the PIA : Divisional Officer, Barpeta Soil
Conservation Division, Barpeta

Contents

Executive Summary	8
CHAPTER 1.....	9
Introduction and Background	9
INTRODUCTION.....	9
II). PROFILE OF THE WATERSHED PROJECT:	9
Table No.1.1 Project at a Glance	9
Table No. 1.2 Need and Scope for Watershed Development.....	14
Table no.1.3: Watershed information.....	16
Table No.1.4: Status of other development project in the area.....	17
Table No. 1.5: Status of previous watershed programme-.....	18
CHAPTER 2.....	19
General Description of Project Area.....	19
Table 2.1: Location	19
Details of the types of areas covered under the project	Error! Bookmark not defined.
Table no: 2.2 Land Details	25
Table No. 2.3: Details of the types of areas covered under the project	27

Table No. 2.4: Details of Agro-climatic condition	27
Table No. 2.5 Details of flood and drought in the project area	29
Table No. 2.6: Details of soil erosion in the project area	29
Table No. 2.7 Details of the Soil pH.....	30
Table No.2.7.1 Climatic Condition.....	31
Table No.-2.8 Physiographic Features.....	32
Table No. 2.9 Watershed characteristics	32
CHAPTER – 3.....	33
BASE LINE INFORMATION OF WATERSHED	33
Table No. 3.1: Demographic features:	33
Table No. 3.2: Livestock details:.....	33
Table No.3.3:Socio- economic status:	35
Table No. 3.4: Migration Details:	36
Table No. 3.5: Details of Community Based Organizations existing in the watershed village:.....	38
Table No. 3.6: Infrastructure Facilities:	39
Table No.3.7 Land use pattern (in Hectares)	40
Table No. 3.8: Details of Common Property Resources:	42
Table No. 3.9: Agriculture implements: Table No. 3.10: Crop Classification	43

Table No. 3.11: Crops & Cropping pattern:	43
Table No. 3.12: Land capability Classification	45
Table No.3.13: Irrigation facilities:	45
Table No. 3.14: Status of water table:	46
Table No. 3.15: Assessment of drinking water facility*:	47
Table No. 3.16: Surface water resources	47
Table No. 3.17 Ground Water Structures to be repaired.....	48
Table No. 3.18: Existing Water Saving Practices:.....	48
Table No. 3.19: Details of existing livelihoods	48
Table No. 3.20: Existing functional assets (Works already completed under different schemes including works undertaken by farmers independently)	49
Table No.3.21 PROBLEM TYPOLOGY OF THE WATERSHED	51
CHAPTER – 4.....	53
Institutional Building and Project Management	53
Table No. 4.1 Details of SHGs & UGs newly formed under IWMP:	53
4.2: Details of Watershed Committees (WC)	54
Table No 4.3: WDT Particulars:	57
Table No. 4.4: PIA particulars	58

Table No. 4.5 Bank Account Details	59
Institutional Mechanisms: (Enclose the following documents)	60
Documents of Agreements:.....	Error! Bookmark not defined.
Table No. 4.8 Convergence plan with IWMP:	66
CHAPTER – 5.....	Error! Bookmark not defined.
Management/Action Plan.....	Error! Bookmark not defined.
Description on methodology of plan adopted	Error! Bookmark not defined.
5.2 Details of Natural Resource Management Activities	69
Table No. 5.2.1 Soil and Moisture Conservation structures	Error! Bookmark not defined.
Table No. 5.2.2 Water Harvesting Structures	77
Table No. 5.2.2 Vegetative Covers.....	80
5.3: Structure or Activity Wise Details of Engineering Structure and Vegetative Measures	82
Table No.5.3.1 : Engineering structures for Soil Conservation Measures (SMC)	82
5.3.2: Details of engineering structures for Water Harvesting WHS	82
Table No. 5.3.3: Details of activities connected with vegetative cover in watershed works*	83
Chapter 6	88
Capacity Building Plan	92
Table No. 6.1 Details of Capacity Building	Error! Bookmark not defined.

Chapter 797

Phasing of Programme and Budgeting97

 Table No. 7.1: Phasing of the action plan97

 Table No. 7.2 Estimated Benefit Cost Ratio99

Chapter 8109

Consolidation and completion of various works109

 Table No. 8.1: Consolidation of Action Plan109

CHAPTER – 9110

EXPECTED OUTCOMES110

 9.1 Describe in detail the “Expected Outcomes”110

 Table No. 9.2: Summarize in the table given below (Quantifiable indicators)111

 Table No.9.3: Backward and Forward Linkages **Error! Bookmark not defined.**

List of Maps to be enclosed along with DPR.114

Annexure 1: Five Year Budget Details as approved by CEO SLNA – JSWM and Rural Development Secretary, Jharkhand

Annexure 2: Convergence of IWMP and MNREGA guideline of DoLR, GoI

Annexure 3: Action Plan as recommended by CEO SLNA-JSWM

Executive Summary

- Brief about area
- Institutional arrangements
- Salient Project activities
- Physical target and financial outlays
- Treatment area and details
- Fact sheet about bench mark indicators and action plan a glance.

CHAPTER 1

Introduction and Background

INTRODUCTION

- Name of the State : Assam
- Name of the District : Dhubri
- Names of the Blocks : Gauripur & Dhubri
- Name of the project : **DHUBRI-I/2021-22 (Dhakabeel South) WDC-PMKSY 2.0**
- 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.

II). PROFILE OF THE WATERSHED PROJECT:

Table No.1.1 Project at a Glance

1	Name of the State	Assam
2	Name of the project	DHUBRI-I/2021-22 (Dhakabeel South) WDC-PMKSY 2.0
3	Name of the District	Dhubri
4	Names of the Blocks	Gauripur & Dhubri
5	Names of Gram Panchayats	Dumardaha, MadhusoulmariTiamari, Kalarhat, Adabari, Dharmashala & Howrarpar

		Name of Village	Village Code	G P	MWS	
6	Names & Census Code of Villages covered	DumardahaPt.I	280876	Dumardaha	Dumardaha	
		TiamariPt.II	280896			
		Madhusoulmari Pt. I	280951	MadhusoulmariTiamari		
		MadhusaulmariPt.II	280895			
		Gauripur	---			
		Burirmari	280877	Dumardaha	Rowah	
		RowahPt.I	280952	MadhusoulmariTiamari		
		RowahPt.II	280953			
		RowahPt.III	280950			
		KismatHasdahaPt.IV	280971	Kalarhat	Borbila	
		AdabariPt.I	280968	Adabari		
		AdabariPt.II	280967			
		Kachuar Khas Pt.II	280970	Dharmashala		
		Kachuar Khas Pt.I	280969			
		BorbilaPt.I	281010	Howrarpar		
		BorbilaPt.II	281009			
		Jangila	281008			
		ChagalcharaPt.I	281011	Adabari		Jhagra
		JhagraPt.II	280954	Jhagarpar		
		Folimari Pt. I	280947			
Jhagra III	280949					
JhagraPt.I	280955					
ChagalcharaPt.III	280966	Adabari				
ChotoBashjani	280964					
ChagalcharaPt.II	280965					

7	Four major reasons for selection of watershed	
8	Name, Address , Phone No and Reg.No.. of the PIA(s)	Niranjan Saikia, Divisional Officer, Barpeta Soil Conservation Division, Barpeta, Phon No. 9435054444
9	Date of approval of Watershed Development Plan by the DPC	
10	Area of the Project (ha.)	5720.16
11	Area proposed to be treated (ha.)	4956.00
12	Financial Year of sanction	2021-22
13	Project duration	From 2021-22 to 2025-26
14	Project Cost (Rs. in Lakhs)	Rs. 1090.32 Lakhs
15	Date of Sanction by State authority	
16	Date of Release of 1 st Installment of Central Assistance (To be filled by DoLR)	
17	Any other, please specify	

- *As per PPR*

Project Background:

The National Rainfed Area Authority (NRAA) was set up in the year 2006. In coordination with the Planning Commission of India, NRAA formulated the Common Guideline on Watershed Management Programmed in 2021 for all watershed development projects in all Ministries and Departments of Govt. of India. Under this Guideline, Ministry of Rural Development, GoI has launched New Generation Watershed & Springshed Development Project as the successive one of its earlier programme like IWDP/Hariyali. New Generation Watershed & Springshed Development Project is a modified programme of previous Drought Prone Areas Programme (DPAP), Desert Development Programme (DDP) and Integrated Wastelands Development Programme (IWDP) of the Department of Land Resources, Government of India. The scheme was launched during 2021-22. The main objectives of the New Generation Watershed & Springshed Development Project are to restore the ecological balance by harnessing, conserving and developing degraded natural resources such as soil, vegetative cover and water. The outcomes are prevention of soil erosion, regeneration of natural vegetation, rain water harvesting and recharging of the ground water table. This enables multi-cropping and the introduction of diverse agro-based activities, which help to provide sustainable livelihoods to the people residing in the watershed area.

The main objectives of the New Generation Watershed & Springshed Development Project (2.0) are to restore the ecological balance by harnessing, conserving and developing degraded natural resources such as soil, vegetative cover and water. The outcomes are prevention of soil erosion, regeneration of natural vegetation, rain water harvesting and recharging of the ground water table. These allow multi-cropping and the introduction of diverse agro-based activities, which help to provide sustainable livelihoods to the people living in the watershed area.

Watershed approach has conveniently aimed at treating degraded lands with the help of low cost and locally available technologies such as in-situ soil and moisture conservation measures, afforestation etc., through a participatory approach that seeks to secure close involvement of the user community. The broad objective of the watershed development programme was the promotion of the overall development of socio-economic conditions of the resourceless poor sections of the people inhabiting with in the watershed.

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

The integrated watershed management essentially involves the following principles:

- Land and water resources are interactive parts of natural ecosystem and should be managed on catchment basis;
- Catchments are continually changing and need to be managed by considering these changes
- Management of land and water resources must be coordinated, with decision based on the best available information
- Sound land and water management is best achieved through the information action of individual users and managers of these resources
- A balance of economic development and conservation of land and water resources must be maintained.

Problems:

The project area of Dhubri- 1/2021-22 (Dakabeel South) WDC-PMKSY, 2.0 falls under Gauripurj and Dhubri Dev. Block of Dhubri District. About 90% of the population of this area is fully dependent on Agriculture. The area has been facing many problems right from very low ground water table to perennial flesh flood. Due to erratic climatic character, the project area has to face occasional drought like situation also. Adverse climatic conditions, poor mobilization of the resources and inadequate agricultural infrastructure are some of the factors responsible for the underdeveloped state of the area. Hence, it is anticipated that the project area of over 5000 ha would undoubtedly boost the living standards of the people of the area through the improvement in agriculture and allied activities.

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

Besides above, the uneven rainfall, damage caused by pest and diseases in agricultural production, lack of knowledge and technologies and facilities for cash crops, no availability of safe drinking water, lack of acquired skills for artisans and weavers for producing better quality products insufficiency of other infrastructural developments are also important problems in the project area.

Need and Scope for Watershed Development

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

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

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

Table No. 1.2 Need and Scope for Watershed Development

Project Name	Project Type	Weightage												Total
		i	ii	iii	iv	v	vi	vii	ix	x	xi	xii	xiii	
DHUBRI-I/2021-22 (Dhakabeel South) WDC-PMKSY 2.0	Plain	10	3	5	5	2	0	15	5	10	10	10	10	85

*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)	
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

Sl. No.	Name of Project	Watershed Name & Code	Villages to be Treated	Geographical Area(Ha)	Treatable Area(Ha)	Approval Year
1	DHUBRI-I/2021-22 (Dhakabeel South) WDC-PMKSY 2.0	Dumardaha (3A1F1b5i)	DumardahaPt.I	101.40	93	2021-22
2			TiamariPt.II	138	72	
3			Madhusoulmari Pt. I	481.18	440	
4			MadhusaulmariPt.II	508.73	453	
5			Gauripur	86	86	
6		Rowa (3A1F1b5ii)	Burirmari	119.88	113	
7			RowahPt.I	191.82	165	
8			RowahPt.II	138.65	125	
9			RowahPt.III	319.30	292	
10			KismatHasdahaPt.IV	471.85	400	
11		Borbila (3A1F1b5iii)	AdabariPt.I	307.56	269	
12			AdabariPt.II	441.51	392	
13			Kachuar Khas Pt.II	138.80	132	
14			Kachuar Khas Pt.I	235.93	170	
15			BorbilaPt.I	207.5	171	
16			BorbilaPt.II	167.54	157	
17			Jangila	128.69	125	
18			ChagolcharaPt.I	370.62	318	
19		Jhagra (3A1F1b5iv)	JhagraPt.II	118.17	110	
20			Folimari Pt. I	355.98	285	
21			Jhagra III	119.80	100	
22			JhagraPt.I	197.36	166	
23			ChagalcharaPt.III	121.85	109	
24			ChotoBashjani	127.00	124	
25			ChagalcharaPt.II	125.04	89	
		Total	5720.16	4956.00		

Data source : GIS Data, Field Survey

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

Sl. No.	Name of the programme /scheme	Sponsoring agency	Objectives of the programme /scheme	Year of commencement	Villages covered	Estimated number of beneficiaries
1	The Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA)	Department of Rural Development, Ministry of Rural Development	is to enhance livelihood security in rural areas by providing at least 100 days of guaranteed wage employment in a financial year to every household whose adult members volunteer to do unskilled manual work.	2009-10		
2	National Rural Drinking Water Programme	Ministry of Drinking Water & Sanitation, Govt. of India	<p>Source sustainability, community managed programmes and recognition of the gap between infrastructure created and service available</p> <p>Installation of a water source will not be considered as the criteria for fully covered habitation, but adequate water supply received by all household of the habitations will be the criteria.</p> <p>Change the lpcd (litres per capita per day) standard as a mean of measuring availability of water, but look at larger and various indicators of water security;</p> <p>Focus on ensuring household level drinking water security through preparation of village water security plans and household level water budgeting.</p> <p>Conjunctive use of surface and groundwater and focus on rainwater harvesting for recharge. For old and new ground water schemes, recharge mechanisms will be made mandatory;</p> <p>Need for social regulation of agricultural water for meeting the demand of drinking water;</p> <p>Revival of traditional systems of water conservation and introduction of catchment protection schemes for surface water;</p>	2009-10		

Table No. 1.5: Status of previous watershed programme-

Sl. No.	Project name	Year started	No. of villages	No. Of micro watershed	Watershed codes	Area under treatment	Funding source	Nodal agency	PIA	Total cost	Expenditure incurred up to start of IWMP	% financial completion	% physical completion
1	Dhubri-IX (Gadadhar Upper) IWMP	2011-12	38	5	Moterjhar (3A1E3/2/I), Dumardaha (3A1E3/2/V), Debottar Hasdaha (3A1E3/2/IV), Dawbanghi (3A1E3/2/II), Dakhin Raipur (3A1E3/2/III)	4082 Ha.	Govt. of India	State Level Nodal Agency	Barpeta Soil Conservation Division	489.84	489.84	100%	100%
2	BirsingJarua IWDP	2003-04						Agriculture Deptt.		209.71	154.93	100%	100%
3	Dharmasa / GauripurHariyali Project	2004-05								164.15	130.65	100%	100%
4	Sonai Tumni Hariyali Project	2005-06								46.06	44.68	100%	100%
5	NWDPRA (7Nos.)	2003-04								23.93	23.93	100%	100%
6	RIDF-XXV	2019-20						Soil Conservation Deptt.		24.85558	23.6128	100%	100%
Data Source : IWMP DPR & Field Survey													

CHAPTER 2

General Description of Project Area

Table 2.1: Location

Longitude	89°50'28.462"E to 89°56'34.332"E
Latitude	26°03'57.545"N to 26°11'21.292"N
State	Assam
District	Dhubri
Subdivision	Dhubri
Block	Gauripur & Dhubri
Panchayat	Dumardaha, MadhusoulmariTiamari, Kalarhat, Adabari, Dharmashala & Howrarpar
Villages	DumardahaPt.I, TiamariPt.II, Madhusoulmari Pt. I, MadhusaulmariPt.II, Gauripur, Burirmari, RowahPt.I RowahPt.II, RowahPt.III, KismatHasdahaPt.IV, AdabariPt.I, AdabariPt.II, Kachuar Khas Pt.II Kachuar Khas Pt.I, BorbilaPt.I BorbilaPt.II, Jangila, ChagalcharaPt.I, JhagraPt.II, Folimari Pt. I, Jhagra III, JhagraPt.I, ChagalcharaPt.III, ChotoBashjani, ChagalcharaPt.II.
Approach Road	National Highway No. 31

** As per PPR

Location of Watershed:

The Dakabeel South Watershed is located in Western part of Dhubri District. The project area is located between 89°50'28.462"E to 89°56'34.332"E longitude and 26°3'57.545"N to 26°11'21.292"N. The watershed area covers 25 numbers of revenue villages under two dev. Blocks namely, Dhubri and Gauripur. The total project area of the watershed is about 5720.16 Ha.

Physiography:

The physiography of the project area is characterized by undulating plain with numbers of streams. The ecology of the watershed is unique and there is a constant threat of flood and erosion. The watershed area is gifted with vast water resources like wetlands, drainage/stream etc. A number of swamps/ marshy lands are found in the area.

The physical make-up of the area represents younger flood plain, younger alluvial plain and old alluvial plain. Proportionately larger area is covered by old younger alluvium.

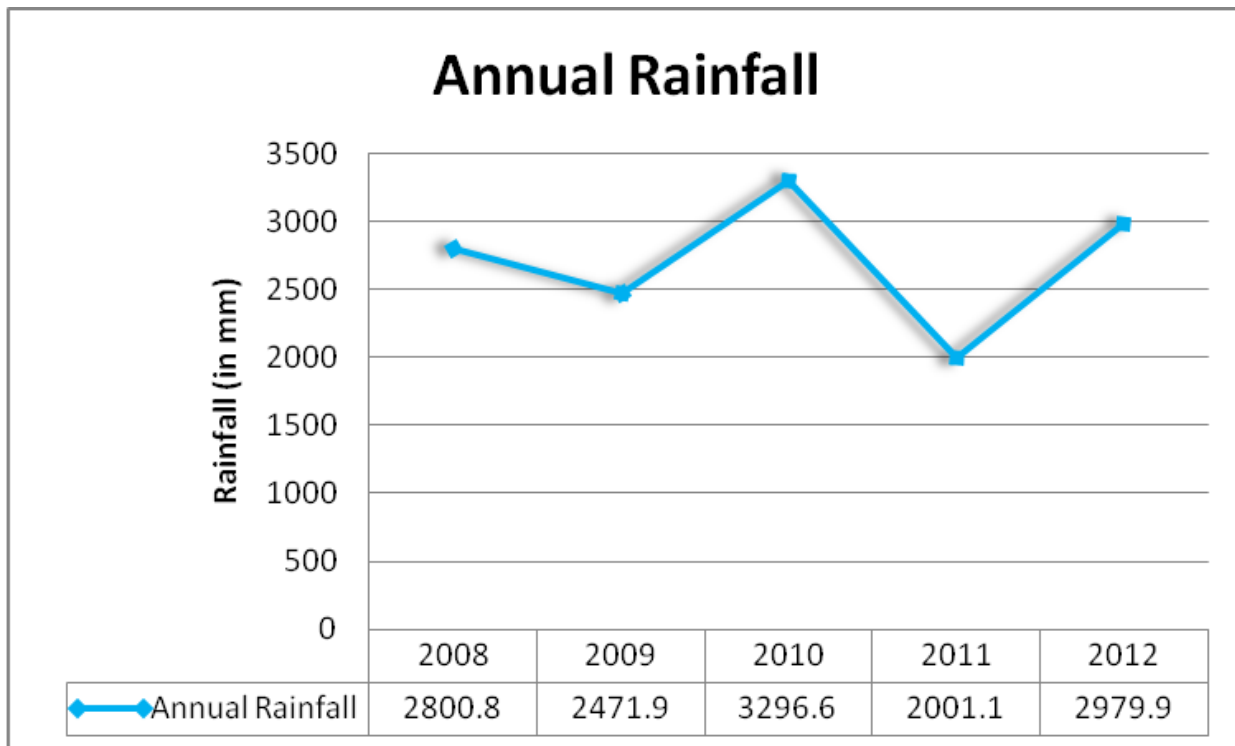
Climate:

The climate of project area is typically 'tropical monsoon rainfall' type, with high levels of humidity and heavy rainfall. One can enjoy a moderate climate all throughout the year, with warm summers and mild winters. The sub-tropical climate of the area is characterized by high rainfall and high humidity and is worked by three dominant seasons, viz. winter (November to February), summer (March to May) and monsoon (June to October). Most of the rainfall in the state is received under the influence of the south-west monsoon between June and October.

Rainfall Data of Dhubri District for Last 5Years (2022-2026) (rainfall in mm)

Year	January	February	March	April	May	June	July	August	September	October	November	December
2008	28.9	15.1	133.9	298.1	281.2	459.6	454.7	725.3	303	101	0	0
2009	0.1	0	51.9	162.4	300.7	463.9	414.4	681.7	180.3	209.4	6.3	0.8
2010	0	1.7	91.3	448.3	436.1	735.2	636.7	329	575.6	40.8	1.2	0.7
2011	2.7	8.9	140.7	67.2	301.1	455.7	424.3	323.4	253	6.9	17.2	0
2012	8.1	15.9	3	288.5	211.7	1107.9	496.7	223.3	446.3	177.8	0	0.7

Source: India Meteorological Department, HYDROMET DIVISION.



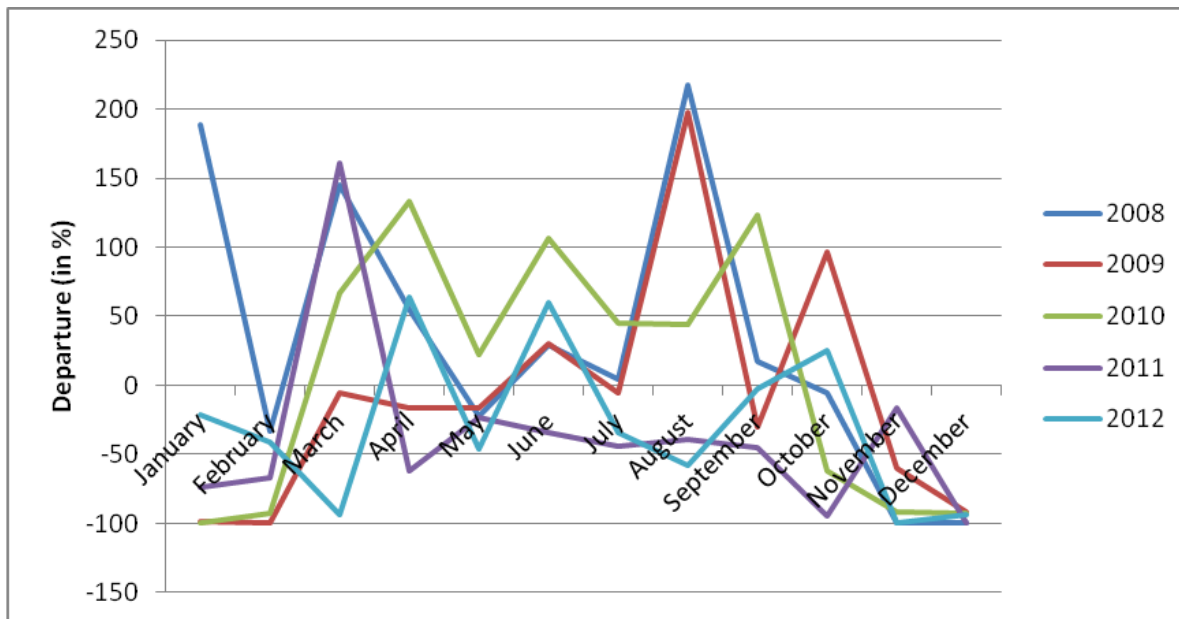
Departures of Rainfall

(Departures in %)

Year	January	February	March	April	May	June	July	August	September	October	November	December
2008	189	-33	145	55	-22	29	4	217	17	-5	-100	-100
2009	-99	-100	-5	-16	-16	30	-5	198	-30	97	-60	-92
2010	-100	-93	67	133	22	106	45	44	123	-62	-92	-93
2011	-74	-67	161	-62	-23	-34	-44	-39	-45	-95	-16	-100
2012	-21	-41	-94	64	-46	60	-34	-58	-3	25	-100	-94

Source: India Meteorological Department, HYDROMET DIVISION.

Note: % departures are the departures of rainfall from the long period averages of rainfall



Drainage & Water Bodies :

The watershed area is drained by many perennial streams namely Gangadhar River, Ratankobha River, Basjani Nadi, Biskhowa Nadi, Baknal Nadi. Apart from these perennial streams the watershed area is also edowed with many wetlsnds namely Chinalukhash Bil, Jawarlmari Bil, Nadini Bil, Guipao Bil, Bhelamari Bil, Bherbheri Bil, Mandaldoba Bil, Arimara Bil, Itakhuli Bil, Kadhudala Bil etc.

Soil:

The general and average soil character of cultivable land in the watershed is mainly alluvial and composed of mixture of sand (course to loamy). From soil resource mapping and taxonomic classification carried by the Natural Bureau of Soil Survey and Land Use Planning (NBSSLUP) it is observed that basically eight types of taxonomic classification are found with the watershed namely - Fine Typic Haplaquepts associated with fine loamy, Aeric Haplaquepts (74), Fine loamy, Typic Haplaquepts associated Fine Loamy, Aeric Fluvequents (75) & Fine Silty Typic Fluvequents associated with Fine Aeric Haplaquepts (76)

Characteristics of Dominant Soil:

Particulars	Fine Typic Haplaquepts associated with fine loamy, Aeric Haplaquepts (74)	Fine loamy, Typic Haplaquepts associated Fine Loamy, Aeric Fluvequents (75)	Fine Silty Typic Fluvequents associated with Fine Aeric Haplaquepts (76)
Morphology	Valleys	Valleys	Valleys
Surface Texture	Valleys	Valleys	Valleys
Parent Material	Alluvium	Alluvium	Alluvium
Soil Depth	Deep (>100 cm)	Deep (>100)	Deep (>100 cm)
Particle Size Class	Fine	Fine loamy	Fine Silty
Mineralogy	Mixed	Mixed	Mixed
Soil temperature regime	Highper thermic 22 ⁰ -28 ⁰ C	Highper thermic 22 ⁰ -28 ⁰ C	Highper thermic 22 ⁰ -28 ⁰ C
Reaction (pH)	Slietly acedic 5.5-6.5	Slietly acedic 5.5-6.5	Slietly acedic 5.5-6.5
Drainage Class	Imperfect	Poor	Poor
Ground Water Depth	Moderately shallow (1-2mtr)	Moderately shallow (1-2mtr)	Shallow (<1 mtr)
Slope	Very gently slopping (1-3%)	Very gently slopping (1-3%)	Level to nearly level (0-1%)

Ground Water:

The depth of ground water level in water table zone varies from 0.41 to 3.07 m bgl in the pre monsoon period and 0.56 to 3.41 m bgl during post monsoon period. As per the records of Ground Water Information Booklet, Central Ground Water Board, 2022 –the area is best suited for creation of ground water abstraction structures for discharge ranging from 100-300 M³/hr.

Economy:

The project area is depends on agricultural economy. Paddy is the major crop and is cultivated in kharif season and land remains uncultivated for rest of the year. The traditional farming system characterized by Low agricultural productivity, lack of irrigation facilities, damage cause by pest and diseases is the major constraint for the agricultural development of the region. Further fishing, livestock rearing handloom and weaving are other important economic activities of the watershed area.

Land Use/ Land Cover:

The following landuse categories are identified through visual interpretation of remote Sensing Map and supported by field verification. The identified main landuse categories are –Agricultural land (kharif) constitute about 3966 ha about 54% of total geographical area of the watershed and Wasteland cultivable about 1033 Ha (14%) including marshy land.

(Area in Ha.)

Table no: 2.2 Land Details

Sl. No.	Names of villages	Geographical Area of the village (ha)	Forest Area (ha)	Land under agricultural use (ha)	Rain-fed area (ha)	Permanent pastures (ha)	Wasteland	
							Cultivable (ha)	Non-cultivable (ha)
1	DumardahaPt.I	101.40	0	94.78	93	0	0	6.62
2	TiamariPt.II	138	0	21	20	0	52	65
3	Madhusoulmari Pt. I	481.18	0	426.18	400	0	40	15
4	MadhusaulmariPt.II	508.73	0	435.73	403	0	50	23
5	Gauripur Town	86	0	86	86	0	0	0
6	Burirmari	119.88	0	105.88	99	0	14	0
7	RowahPt.I	191.82	0	154.82	140	0	25	12
8	RowahPt.II	138.65	0	107.65	105	0	20	11
9	RowahPt.III	319.30	0	282.3	270	0	22	15
10	KismatHasdahaPt.I V	471.85	0	421.85	360	0	40	10
11	AdabariPt.I	307.56	0	216.56	199	0	70	21
12	AdabariPt.II	441.51	0	411.51	370	0	22	8
13	Kachuar Khas Pt.II	138.80	0	136.8	130	0	2	0
14	Kachuar Khas Pt.I	235.93	0	188.93	170	0	0	47
15	BorbilaPt.I	207.5	0	105.5	101	0	70	32

Sl. No.	Names of villages	Geographical Area of the village (ha)	Forest Area (ha)	Land under agricultural use (ha)	Rain-fed area (ha)	Permanent pastures (ha)	Wasteland	
							Cultivable (ha)	Non-cultivable (ha)
16	BorbilaPt.II	167.54	0	160.54	150	0	7	0
17	Jangila	128.69	0	123.69	120	0	5	0
18	ChagalcharaPt.I	370.62	0	277.62	260	0	58	35
19	JhagraPt.II	118.17	0	106.17	104	0	6	6
20	Folimari Pt. I	355.98	0	250.98	230	0	55	50
21	Jhagra III	119.80	0	79.8	75	0	25	15
22	JhagraPt.I	197.36	0	189.36	160	0	6	2
23	ChagalcharaPt.III	121.85	0	110.85	109	0	0	11
24	ChotoBashjani	127.00	0	119	119	0	5	3
25	ChagalcharaPt.II	125.04	0	69.04	69	0	20	36
Total		5720.16	0	4682.54	4342	0	614	423.62

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

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

1 Sl. No.	2 Name of village	3 No. of beneficiaries covered				
		MF	SF	LF	Landless	Total
1	DumardahaPt.I	308	102	20	88	518
2	TiamariPt.II	330	189	77	92	688
3	Madhusoulmari Pt. I	342	188	67	124	721
4	MadhusoulmariPt.II	320	204	69	134	727
5	Gauripur Town	199	128	10	16	353
6	Burirmari	289	209	72	142	712
7	RowahPt.I	308	199	52	129	688
8	RowahPt.II	288	198	59	135	680
9	RowahPt.III	403	220	58	142	823
10	KismatHasdahaPt.IV	405	302	129	133	969
11	AdabariPt.I	313	166	99	133	711
12	AdabariPt.II	405	243	99	136	883
13	Kachuar Khas Pt.II	325	193	87	137	742
14	Kachuar Khas Pt.I	333	210	73	100	716
15	BorbilaPt.I	280	211	92	103	686
16	BorbilaPt.II	228	199	88	108	623
17	Jangila	229	106	79	107	521
18	ChagolcharaPt.I	227	123	86	111	547
19	JhagraPt.II	310	216	89	112	727
20	Folimari Pt. I	268	190	83	116	657
21	Jhagra III	246	186	62	123	617
22	JhagraPt.I	267	188	35	129	619
23	ChagalcharaPt.III	477	289	32	126	924
24	ChotoBashjani	334	169	49	128	680
25	ChagalcharaPt.II	309	190	55	121	675
Total		7743	4818	1721	2925	17207

Data source : From field survey

Table No. 2.4: Details of Agro-climatic condition

1	2	3	4	5	6		7	
Sl. No.	Name of the Project	Name of the Agro-climatic zone covers project area	Area in ha	Names of the villages	Major soil types		Major crops	
					a)Type	b) Area in ha	a) Name	b) Area in ha
1	DHUBRI-I/2021-22 (Dhakabeel South) WDC-PMKSY 2.0	Lower Brahmaputra Valley Zone	101.40	DumardahaPt.I	Fine-Loamy(Typic Fluvaquents)	101.40	Paddy	79.12
2			138	TiamariPt.II		138	Paddy	101.15
3			481.18	Madhusoulmari Pt. I		481.18	Paddy	380.20
4			508.73	MadhusaulmariPt.II		508.73	Paddy	403.00
5			86	Gauripur Town		86	Paddy	62.00
6			119.88	Burirmari		119.88	Paddy	82.00
7			191.82	RowahPt.I		191.82	Paddy	146.00
8			138.65	RowahPt.II		138.65	Paddy	112.00
9			319.30	RowahPt.III		319.30	Paddy	219.00
10			471.85	KismatHasdahaPt.IV		471.85	Paddy	369.00
11			307.56	AdabariPt.I		307.56	Paddy	264.00
12			441.51	AdabariPt.II		441.51	Paddy	336.00
13			138.80	Kachuar Khas Pt.II		138.80	Paddy	102.00
14			235.93	Kachuar Khas Pt.I		235.93	Paddy	201.16
15			207.5	BorbilaPt.I		207.5	Paddy	165.21
16			167.54	BorbilaPt.II		167.54	Paddy	108.30
17			128.69	Jangila		128.69	Paddy	96.60
18			370.62	ChagalcharaPt.I		370.62	Paddy	202.00
19			118.17	JhagraPt.II		118.17	Paddy	71.80
20			355.98	Folimari Pt. I		355.98	Paddy	240.10
21			119.80	Jhagra III		119.80	Paddy	83.63
22			197.36	JhagraPt.I		197.36	Paddy	123.00
23			121.85	ChagalcharaPt.III		121.85	Paddy	90.00
24			127.00	ChotoBashjani		127.00	Paddy	85.00
25			125.04	ChagalcharaPt.II		125.04	Paddy	93.00
Data source : From field survey								

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

1	2	3	4		5
Sl. No.	Particulars	Villages	Periodicity		Not affected
			Annual	Any other (please specify)	
1	Flood	25 No. of villages	5 Nos. of villages occasionally flooded during high rainfall		Other 20 villages are not affected
		Name(s) of villages			
2	Drought	No. of villages	Nil		
		Name(s) of villages	---		

Data source : From field survey

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

1	2	3	4	5
Cause	Type of erosion	Area affected (ha)	Run off (mm/ year)	Average soil loss (Tonnes/ ha/ year)
Water erosion				
a	Sheet	3150	1021.00	More Than 12.5 Ton
b	Rill	325		
c	Gully	101		
Sub-Total		3576		
Wind erosion		---	NA	
Total		3576		

Data source : From field survey

Table No. 2.7 Details of the Soil pH

Name of the Villages	Sample no	Soil Ph	Soil Type
DumardahaPt.I	--	6.5-7.5	Fine Loamy, Typic Fluvaquents
TiamariPt.II	--	6.5-7.5	Fine Loamy, Typic Fluvaquents
Madhusoulmari Pt. I	--	6.5-7.5	Fine Loamy, Typic Fluvaquents
MadhusaulmariPt.II	--	6.5-7.5	Fine Loamy, Typic Fluvaquents
Gauripur Town	--	6.5-7.5	Fine Loamy, Typic Fluvaquents
Burirmari	--	6.5-7.5	Fine Loamy, Typic Fluvaquents
RowahPt.I	--	6.5-7.5	Fine Loamy, Typic Fluvaquents
RowahPt.II	--	6.5-7.5	Fine Loamy, Typic Fluvaquents
RowahPt.III	--	6.5-7.5	Fine Loamy, Typic Fluvaquents
KismatHasdahaPt.IV	--	6.5-7.5	Fine Loamy, Typic Fluvaquents
AdabariPt.I	--	6.5-7.5	Fine Loamy, Typic Fluvaquents
AdabariPt.II	--	6.5-7.5	Fine Loamy, Typic Fluvaquents
Kachuar Khas Pt.II	--	6.5-7.5	Fine Loamy, Typic Fluvaquents
Kachuar Khas Pt.I	--	6.5-7.5	Fine Loamy, Typic Fluvaquents
BorbilaPt.I	--	6.5-7.5	Fine Loamy, Typic Fluvaquents
BorbilaPt.II	--	6.5-7.5	Fine Loamy, Typic Fluvaquents
Jangila	--	6.5-7.5	Fine Loamy, Typic Fluvaquents
ChagolcharaPt.I	--	6.5-7.5	Fine Loamy, Typic Fluvaquents
JhagraPt.II	--	6.5-7.5	Fine Loamy, Typic Fluvaquents
Folimari Pt. I	--	6.5-7.5	Fine Loamy, Typic Fluvaquents
Jhagra III	--	6.5-7.5	Fine Loamy, Typic Fluvaquents
JhagraPt.I	--	6.5-7.5	Fine Loamy, Typic Fluvaquents
ChagalcharaPt.III	--	6.5-7.5	Fine Loamy, Typic Fluvaquents
ChotoBashjani	--	6.5-7.5	Fine Loamy, Typic Fluvaquents
ChagalcharaPt.II	--	6.5-7.5	Fine Loamy, Typic Fluvaquents

Table No.2.7.1 Climatic Condition

Sl. No	Year (2022)	Average Monthly Rain fall(in mm)	Average Annual rainfall(in mm)preceding 5 years	Temp(°C)		Wind Velocity	Open pan evaporation (mm per day)	Relative Humidity (RH)	Average Annual run off(mm/year)
				Max	Min				
1	January	0.00	1836	24	10.8	4.08	2.58	95	1120
2	February	8.40		25.1	11.3	3.84	3.3	87	
3	March	40.30		28.1	15.3	4.02	4.25	91	
4	April	160.80		31.3	21.3	3.62	4.75	95	
5	May	210.50		31.7	23.8	3.19	4.81	95	
6	June	208.90		31.7	25.8	3.07	4.37	99	
7	July	486.30		32.9	26.1	2.99	4.15	97	
8	August	254.80		31.9	25.8	2.79	4.45	99	
9	September	155.30		30.9	25	2.74	3.71	97	
10	October	77.10		31	22.9	3.09	3.05	98	
11	November	0.60		27	17.7	3.74	2.81	94	
12	December	5.70		25	11.4	4.03	2.31	85	
13	Average Monthly Rain fall(in mm)	134.06			29.22	19.77			

Table No.-2.8 Physiographic Features

Elevation(MSL)	Slope Range (%)	Order of Watershed	Major Stream	Toposequence (Soil series)	Average annual soil loss(Ton / hectare/year)
Maximum - 35 mtr., Minimum- 29 mtr. Average- 33mtr.	Maximum Slope -5.1%, Average Slope- 0.5%	-	Gadadhar River,Baknal Nadi,Alalkuri Nadi	Fine Loamy,Typic Fluvaquents	Moderately Slight (5-10 Ton)
Maximum -35 mtr., Minimum- 28 mtr. Average- 31 mtr.	Maximum Slope -3.4 %, Average Slope- 0.9%	-	Dumardaha Nadi	Fine Loamy,Typic Fluvaquents	Moderately Slight (5-10 Ton)
Maximum - 33 mtr., Minimum- 29 mtr. Average- 31 mtr.	Maximum Slope -4.5 %, Average Slope- 0.5%	-	Chullbhangi Nadi	Fine Loamy,Typic Fluvaquents	Moderately Slight (5-10 Ton)
Maximum - 37 mtr., Minimum- 28 mtr. Average- 32 mtr.	Maximum Slope -1.6 %, Average Slope- 1.1 %	-	Gadadhar River, Dumardaha Nadi	Fine Loamy,Typic Fluvaquents	Moderately Slight (5-10 Ton)

Data source : From field survey

Table No. 2.9 Watershed characteristics

Shape index of the watershed	Length of main stream	Drainage density	Average slope	Watershed relief	Perimeter of the watershed
---	18,728 mtr	0.0032	0.80%	Plain	56979

Data source : From field survey

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	42810	40674	83484
	SC	250	235	485
	ST	1	5	6
	BC	23876	19535	43411
	Others	18683	20899	39582
2	Children(0-14 years)	6733	5790	12523
3	Sex Ratio	951		
4	Literacy	55.66%	44.44%	51.62%
	Literates	23984	19108	43092
	Illiterates	18826	21566	40392
5	Work Force	22025	4461	26486
	Agriculture	36192	26421	62613
	Industrial/Business	2909	1265	4174
	Service	953	717	1670
6	Birth Rate	---	---	---
7	Death Rate	---	---	---

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

Table No. 3.2: Livestock details:

1	2	3
SL. No	Feature	No./ quantity)
1	Milch Animals	
	Cows	4657
	Buffaloes	24
	Goat, sheep	1643
2	Draft Animals	
	Ox	
	He Buffalo	
3	Others	
	Poultry	1245
	Piggery	5
4	Total Milk production from milch animals (ltrs/day)	1100
5	Fodder Availability	
	Dry (Abundant/Sufficient/ Scarce)	
	Green (Abundant/Sufficient/ Scarce)	
6	Fuel wood Availability (Abundant/Sufficient/Scarce)	
Data source : From field survey		

Table No.3.3:Socio- economic status:

1	2	3	4	5						6			
S. No	Type	Total HHs	No. of BPL HHs	Land Holding (Ha)						Annual Gross Income (Rs.)			
				Rain fed			Irrigated			SC	ST	Others	Total
				SC	ST	Others	SC	ST	Others				
1	Marginal	7743	10152	221	3	2820	8	0	16	22000	22000	22000	66000
2	Small Farmers	4818		63	--	739	6	0	14	37000	37000	37000	111000
3	Big farmers	1720		42	--	190	10	0	72	72000	72000	72000	216000
4	Landless	2925		--	--	--	--	--	--	--	--	--	--
	Total	17206	10125	326	3	3749	24	0	102	131000	131000	131000	393000

Data source : From field survey

Table No. 3.4: Migration Details:

1	2			3	4	5	6	7
Name of Village	No. of persons migrating			No. of days per year of migration	Major reason(s) for migrating	Distance of destination of migration from the village (km)	Occupation during migration	Income from such occupation (Rs.)
	M	F	Total					
DumardahaPt.I	21	5	26	60	Lack in sufficient employment generation, For Better Opportunity , Lack of irrigation facility, Mono Crop Area etc.	2 km. to 50 Km.	Daily labour, business, vegetable vendor	Average Rs. 22,000/- per Annum
TiamariPt.II	15	2	17	60				
Madhusoulmari Pt. I	33	4	37	60				
MadhusaulmariPt.II	10	2	12	30				
Gauripur Town	15	3	18	30				
Burirmari	32	4	36	45				
RowahPt.I	13	3	16	60				
RowahPt.II	15	3	18	30				
RowahPt.III	10	5	15	45				
KismatHasdahaPt.IV	12	4	16	30				
AdabariPt.I	13	2	15	30				
AdabariPt.II	14	3	17	60				
Kachuar Khas Pt.II	12	5	17	60				
Kachuar Khas Pt.I	15	4	19	60				
BorbilaPt.I	11	5	16	30				
BorbilaPt.II	10	9	19	30				
Jangila	16	3	19	45				
ChagolcharaPt.I	14	3	17	60				

Table No. 3.4: Migration Details:

1	2			3	4	5	6	7
Name of Village	No. of persons migrating			No. of days per year of migration	Major reason(s) for migrating	Distance of destination of migration from the village (km)	Occupation during migration	Income from such occupation (Rs.)
	M	F	Total					
JhagraPt.II	17	2	19	45	Lack in sufficient employment generation, For Better Opportunity , Lack of irrigation facility, Mono Crop Area etc.	2 km. to 50 Km.	Daily labour, business, vegetable vendor	Average Rs. 22,000/- per Annum
Folimari Pt. I	14	1	15	30				
Jhagra III	13	3	16	60				
JhagraPt.I	15	3	18	60				
ChagalcharaPt.III	12	6	18	50				
ChotoBashjani	11	4	15	60				
ChagalcharaPt.II	11	5	16	80				
Total	374	93	467					

Data source : From field survey

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

1	2	3				4			5			6			7			8			9		
S. No.	Type of Group	Total no. of CBOs				No. of members			No. of ST in each category			No. of SC in each category			No. of Others in each category			No. of BPL in each category			Bank linkage		
		With only Men	With only Women	With both	Total	M	F	Total	M	F	Total	M	F	Total	M	F	Total	M	F	Total	No. of SHGs	Bank Loan Amount (Rs.)	
1	SHG	21	170	-	191	(i) Landless	181	1620	1801	5	5	10	7	9	16	169	1606	1775	181	1620	1801		
						(ii) MF	38	213	251	0	0	0	0	0	0	38	213	251	38	213	251		
						(iii) SF	12	38	50	0	0	0	0	0	0	12	38	50	0	0	0		
						(iv) LF	0		0	0	0	0	0	0	0	0	0	0	0	0	0		
	Total						231	1871	2102	5	5	10	7	9	16	219	1857	2076	219	1833	2052		

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

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	37	1-5	
	Primary School	32	1-5	
	Secondary school	3	5-10	
	Govt. College	-		
	Vocational Institutions	7	5-10	
2	Service Institutions	5	1-4	
	Bank	2	1-3	
	Post office	3	5-10	
	Primary Health Care Center	2	4-8	
	Veterinary Center	1	1-10	
	Markets/ Village Haat	13	1-3	
3	No. of bore wells/pump sets (Functional)	-		
4	No. of Milk collection centers	-		
	(Union/ Society/ Pvt. Agency/Others)			
	Total Quantity of surplus milk	-		
5	Road Connectivity (to main road by an all-weather road) (Yes/No)	Yes		
6	Bus facility (Yes/No)	Yes		
7	No. of HHs provided electricity	10250		
8	No. of HHs with access to drinking water	11224		
9	Access to Agro Industries (Yes/No)	-		
10	Any other facilities (specify-----)	-		

Data source : From field survey

Table No.3.7 Land use pattern (in Hectares)

1	2	3	4	5	6	7	8	9		10		11	12	13*
S. No	Village	Geographical Area#	Forest Area	Community Land	Land under Non Agriculture Use	Permanent Pastures	Land Under miscellaneous use	Uncultivated Private land		Cultivated area		Net Sown Area	Net Area sown more than once	Gross Cropped Area
								Temporary fallow	Permanent Fallow	Cultivated Rainfed	Cultivated Irrigated			
1	DumardahaPt.I	101.40	0	0	10	0	0	0	0	6.62	0	90	4.78	94.78
2	TiamariPt.II	138	0	0	25	0	0	0	0	65	52	20	1	21
3	Madhusoulmari Pt. I	481.18	0	0	29	0	0	0	0	15	40	399	27.18	426.18
4	MadhusoulmariPt.II	508.73	0	0	32	0	0	0	0	23	50	389	46.73	435.73
5	Gauripur Town	86	0	0	23	0	28	0	0	0	0	80	6	86
6	Burirmari	119.88	0	0	1	0	0	0	0	0	14	98	7.88	105.88
7	RowahPt.I	191.82	0	0	7	0	27	0	0	12	25	146	8.82	154.82
8	RowahPt.II	138.65	0	0	75	0	0	0	0	11	20	89	18.65	107.65
9	RowahPt.III	319.30	0	0	18	0	7	22	0	15	22	280	2.3	282.3
10	KismatHasdahaPt.IV	471.85	0	0	35	0	10	0	0	10	40	392	29.85	421.85
11	AdabariPt.I	307.56	0	0	56	0	19	10	0	21	70	210	6.56	216.56
12	AdabariPt.II	441.51	0	0	24	0	0	0	0	8	22	380	31.51	411.51
13	Kachuar Khas Pt.II	138.80	0	0	29	0	18	19	0	0	2	130	6.8	136.8
14	Kachuar Khas Pt.I	235.93	0	0	43	0	0	0	0	47	0	178	10.93	188.93

15	BorbilaPt.I	207.5	0	0	45	0	0	0	0	32	70	93	12.5	105.5
16	BorbilaPt.II	167.54	0	0	19	0	7	0	0	0	7	148	12.54	160.54
17	Jangila	128.69	0	0	20	0	5	0	0	0	5	115	8.69	123.69
18	ChagolcharaPt.I	370.62	0	0	27	0	7	12	0	35	58	260	17.62	277.62
19	JhagraPt.II	118.17	0	0	29	0	0	19	0	6	6	94	12.17	106.17
20	Folimari Pt. I	355.98	0	0	36	0	0	0	0	50	55	230	20.98	250.98
21	Jhagra III	119.80	0	0	39	0	8	0	0	15	25	60	19.8	79.8
22	JhagraPt.I	197.36	0	0	85	0	13	0	0	2	6	180	9.36	189.36
23	ChagalcharaPt.III	121.85	0	0	35	0	0	21	0	11	0	96	14.85	110.85
24	ChotoBashjani	127.00	0	0	17	0	14	23	0	3	5	100	19	119
25	ChagalcharaPt.II	125.04	0	0	36	0	19	0	0	36	20	60	9.04	69.04
Total		5720.16	0.00	0.00	795	0.00	182	126	0.00	423.62	614	4317	365.54	4682.54

Data Source : Field survey and Census Data 2011

Table No. 3.8: Details of Common Property Resources:

1	2	3				4			
S.No	CPR Particulars	Total Area (ha) Area owned/ In possession of				Area available for treatment (ha)			
		Pvt. persons	Govt. (specify dept.)	PRI	Any other (Pl. Specify)	Pvt. persons	Govt. (specify deptt.)	PRI	Any other (Pl. Specify)
	Wasteland/ degraded land	0	175	0	0	0	162	0	0
	Pastures	0	0	0	0	0	0	0	0
	Orchards	0	0	0	0	0	0	0	0
	Village Forest	220	0	0	0	0	0	0	0
	Forest	0	0	0	0	0	0	0	0
	Village Ponds/ Tanks	22	0	0	10	0	0	0	0
	Community Buildings	0	0	0	3	0	0	0	0
	Weekly Markets	0	0	0	2	0	0	0	0
	Permanent markets	11	0	0	0	0	0	0	0
	Temples/ Places of worship	0	0	0	9	0	0	0	0
	Others (Pl. specify)	0	0	0	0	0	0	0	0
Total		242	175	0	24	0	162	0	0

Data Source : From Field survey

Table No. 3.9: Agriculture implements:

1	2	3
S. No	Implements	Nos.
1	Tractor	29
2	Sprayers-manual/ power	44
3	Cultivators/Harrows	--
4	Seed drill	--

Data Source : From Field survey

Table No. 3.10: Crop Classification

1	2	3
S. No	Crop classification	Area (Ac)
1	Single crop	3916
2	Double crop	111
3	Multiple crop	--

Data Source : From Field survey

Table No. 3.11: Crops & Cropping pattern:

1 S · N O	2 Season	3 Crop sown	4				5				6			
			Rain fed				Irrigated				Total			
			Area (ha)	Productio n (Ton/yr)	Productivi ty (Kgs/ha)	Cost of cultivation (Rs. /ha)	Area (ha)	Productio n(Ton/yr)	Productivit y (Kgs/ha)	Cost of cultivation (Rs. /ha)	Area (ha)	Productio n (Ton/yr)	Productivit y (Kgs/ha)	Cost of cultivation (Rs. /ha)
1	Kharif	Autumn Paddy	3439	5158.5	1500	9000	0	0	0	0	3439	5158.5	1500	9000
2	Rabi	Winter Paddy	0	0	0	0	111	167	1500	15000	111	166.5	1500	15000
		Mustard	18	13.5	750	3700	0	0	0	0	18	13.5	750	3700
		Black gram	22	14.52	660	3400	0	0	0	0	22	14.52	660	3400
		Lentil	27	12.15	450	3400	0	0	0	0	27	12.15	450	3400
		Green gram	19	9.31	490	3400	0	0	0	0	19	9.31	490	3400
3	SUMME R	Summer Paddy	526	1841	3500	9000	0	0	0	0	526	1841	3500	9000
	TOTAL		4051	7049	7350	31900	111	167	1500	15000	4162	7215	8850	

Table No. 3.12: Land capability Classification

S.No	Land type	Total Area (ha)	Soil Texture*	Based on Depth (cms)- (mention area in ha)					Based on Slope (%) (mention area in ha)				Erosion (mention area in ha)				Land class
				V. Shallow (0.75)	Shallow (7.5-22.5)	Moderate Deep (22.5-45.00)	Deep (45.0-90.0)	Very. Deep (>90)	Nearly Level (0-2)	Moderate slope (2-6)	Strong slope (6-15)	Steep (>15)	Water			Wind	
													Sheet	Rill	Gully		
1	I	2066	Fine Loamy	0	0	0	0	2066	2066	0	0	0	---	---	---	---	---
2	II	1901	Fine Loamy	0	0	0	0	1901	0	1901	0	0	---	---	---	---	---
3	III	70	Fine Loamy	0	0	0	0	70	0	0	70	0	---	---	---	---	---
4	IV	0	Fine Loamy	0	0	0	0	0	0	0	0	0	---	---	---	---	---
5	V	720	Fine Loamy	0	0	0	0	720	403	308	9	0	---	---	---	---	---
6	VI	67	Fine Loamy	0	0	0	0	67	37	29	1	0	---	---	---	---	---
7	VII	232	Fine Loamy	0	0	0	0	232	0	0	0	232	---	---	---	---	---
8	VIII	739	Fine Loamy	0	0	0	0	739	345	378	16	0	---	---	---	---	---

Table No.3.13: Irrigation facilities:

1	2	3	4
S.No	Type of the Source	Nos.	Command area (in ha)
1	Ponds	65	
2	Open wells	5	
3	Bore wells	18	115
4	Canal irrigation	-	
5	Natural spring head	-	

Data Source : From Field survey

Table No. 3.14: Status of water table:

1	2	3	4	5	6	7	8
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	Shallow Tubewell	PU0001965922	Abul Kalam Azad	13/02/2022	4.5	Valley	Above Permissible Limit Iron[1.32 mg/l]
2	Shallow Tubewell	PU0001966063	Sulaman Ali	14/02/2022	4.5	Valley	Above Permissible Limit Iron[2.51 mg/l]
3	Shallow Tubewell	PU0001959018	Satish Das	14/02/2022	4.5	Valley	Above Permissible Limit Iron[0.85 mg/l]
4	Shallow Tubewell	PU0001966305	Muzammil Hussain	15/02/2022	4.5	Valley	Above Permissible Limit Iron[2.27 mg/l]
5	Shallow Tubewell	PU0001966313	Ahmed Ali	15/02/2022	4.5	Valley	Above Permissible Limit Iron[5.00 mg/l]
6	Shallow Tubewell	PU0001958570	Saheb Ali	16/02/2022	4.5	Valley	Above Permissible Limit Iron[5.00 mg/l]
7	Shallow Tubewell	PU0001958596	Jibon Das	17/02/2022	4.5	Valley	Above Permissible Limit Iron[5.00 mg/l]
8	Shallow Tubewell	PU0001958587	Debasish Biswas	18/02/2022	4.5	Valley	Above Permissible Limit Iron[5.00 mg/l]
9	Shallow Tubewell	PU0001966341	Akbar Ali	19/02/2022	4.5	Valley	Above Permissible Limit Iron[3.82 mg/l]
1	Shallow Tubewell	PU0001965922	Samsul Haque	20/02/2022	4.5	Valley	Above Permissible Limit Iron[1.32 mg/l]

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

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	178229	Tube Well, Govt. Supply, Ring Well
2	Present availability of drinking water	Ltrs/day	134127	
3	No. of drinking water sources available	Nos	6638	
	a) Functional	Nos	6438	
	b) Need Repairing	Nos	-	
	c) Defunct	Nos	-	
4	Short fall if any	Ltrs/day	44907	
5	No. of families getting drinking water from out side the Micro watershed area	Nos	-	
6	Requirement of new drinking water sources (if any)	Nos.	-	

* based on the observation from the field, PHE-DHUBRI

Table No. 3.16: Surface water resources

1	2	3	4	5
S.No	Type of water resource	Nos	Area irrigated (Ha)	Storage capacity (Cu.m)
1	Tank	7	--	--
2	Pond	65	--	--
3	Lake	--	--	--
4	Check dam	--	--	--
5	Percolation tank	--	--	--
6	Channel/Canal	--	--	--
7	Any others (specify-----)	--	--	--

Data Source : From Field survey

Table No. 3.17 Ground Water Structures to be repaired.

Sl. No	Type of structure	No. available			Total
		No. to be Repaired	No. to be rejuvenated	No. with no interventions required	
1	Shallow TubeWell	11	3	24	38
2	Mark-III TubeWell	5	1	16	22
3	Ring Well	2	1	11	14
4	Tara hand Pump	2	-	7	9
Total		20	5	58	83

Source : From Field data

Table No. 3.18: Existing Water Saving Practices:

Name of the Major Crop	Area (Ha)				Current water Saving status as against flood irrigation. (Cu.m)
	Under water saving devices [§]	Under water conserving agronomic practices [#]	Any other (Pl. Specify)	Total	
Kharif Paddy	-	345	-	345	-
Rabi Paddy	-	2130	-	2130	-
Mustard	-	338	-	338	-
Kharif Veg.	-	52	-	52	-
Rabi Veg.	-	165	-	165	-
Summer Veg.	-	36	-	36	-
Potato	-	62	-	62	-

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

Table No. 3.19: Details of existing livelihoods

1	2	3					4
S. No.	Name of activity	No. of beneficiaries					Pre-project average income per HH (Rs.)
		SC	ST	Others	Total	Women	
1	Dairy	45	1	567	616	205	45000
2	Goatary	72	1	680	753	248	30000
3	Duckery	25	0	225	251	80	25000
4	Poultry	137	1	2272	2416	795	25000
	TOTAL	279	3	3744	4026	1328	

Data Source : From Field survey

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

1	2	3	4	5	6
Sl. No.	Name of the work	Plot No.	Quantity (No./RMTs)	Amount spent (Rs. In lakhs)	Programme
1	River Training Project at Geramari Pt-VI under RIDF – XXV for the year 2020-21	Geramari Pt-VI village (Gadadhar River)	1 No.	Rs. 70.68 Lakhs	Executed by Soil Conservation Deptt., Barpeta



Table No.3.21 PROBLEM TYPOLOGY OF THE WATERSHED

1	2	3	4
S.No	Problem area	Problem analysis	Proposed interventions to overcome problems
1	Soil Conservation (slope, erosion, soil loss, rainfall, productivity, etc)	<ol style="list-style-type: none"> 1. Soil Erosion, and heavy soil loss in upland area. 2. Sheet erosion is combatively high in many places. 3. unpredictable nature of Soil 	<ol style="list-style-type: none"> 1. Construction of graded bund and field bund to protect the soil erosion and siltation problems.
2	Water conservation (Water budget, Ground water norms, productivity)	<ol style="list-style-type: none"> 1. Degradation of Natural Resource such as congestion of natural drainage, 2. Lack of water storage facility results in shortage of water during winter. 3. Run-off resulting from seasonal rain conquers high velocity due to steep slope in the watershed and thereby causes different types of soil erosion hazards. 4. Due to inadequate irrigation infrastructure mainly mono cropping is done 	<ol style="list-style-type: none"> 1. Re-generation of drainage channel by excavation and reclamation activities. 2. Reclamation of natural water bodies (beels) by excavating and constructing periphery bund etc. to increase water storage capacity. 3. creation of Farm Pond and related distribution channel for water harvesting/storage and irrigation 4. Construction of Nullabund to control the waterlogging problem.
3	Crop coverage – {80% of w/s area should be with canopy}	<ol style="list-style-type: none"> 1. Rabi crop area is proportionately small due to inadequate irrigation facilities. 2. Predominance Mono cropping 3. Flooding problem during summer 4. Scarce vegetative cover over the area 	<ol style="list-style-type: none"> 1. Agro-forestry, fuel wood plantation 2. Turmeric & Banana Plantation

4	Agriculture productivity (crop wise compare with dist. average)	<ol style="list-style-type: none"> 1. Low agricultural productivity due to high flood during summer, lack of irrigation facility, erratic and uncertain rainfall, low cropping intensity, lack of locally available agri-technologies to match the high ecological diversity of rainfed area etc. 	<ol style="list-style-type: none"> 1. 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.)	<ol style="list-style-type: none"> 1. Dearth of fodder during flood period. 2. Lack of protected shelter for the inhabitants during flood period 3. lack of grazing land effects the production of milk and allied products, which in turn results in inadequate nutrition. 4. Diseases which reduce the production potential of livestock. 	<ol style="list-style-type: none"> 1. Promotion of Marketing facilities through SHG 2. Promotion of Dairy, Piggery, goatery, Duckery and Poultry farming activities.
6	Existing Livelihood activities for Asset less persons	<ol style="list-style-type: none"> 1. Less income generating unsustained activities. 2. Their present occupation is Daily Labour, Rikswa Pullers etc. 	<ol style="list-style-type: none"> 1. Promotion of Dairy, Piggery, goatery, Duckery and Poultry farming activities. 2. Promotion of weaving activities for asset less woman.
7	Community Based Organizations & Social capital base	<ol style="list-style-type: none"> 1. Most of the SHGs are not functional. 	<ol style="list-style-type: none"> 1. Formation of SHG, User groups for promotion of various income generating activities
8	Capacity Building (participation, training, awareness of watershed community)	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 1. Conducting Awareness programmes among the villagers. 2. Providing training in respect to each activities proposed for watershed development as well as livelihood generation.
9	Others (specify)	<ol style="list-style-type: none"> 1. Lack of Marketing and trading Facilities 	<ol style="list-style-type: none"> 1. Providing Market Promotion Centres along with Low Cost go-down for storage of various products.

CHAPTER - 4

Institutional Building and Project Management

Table No. 4.1 Details of SHGs & UGs newly formed under WDC-PMKSY:

1	2	3				4			5			6			7			8			
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			
		With only Men	With only Women	With both	Total		M	F	Total	M	F	Total	M	F	Total	M	F	Total	M	F	Total
1	SHG	42	295	20	357	(i) Landless	950	1200	2150	0	2	2	44	90	134	906	1108	2014	950	1200	2150
						(ii) MF	470	780	1250	0	2	2	16	28	44	454	750	1204	86	75	161
						(iii) SF	210	230	440	0	0	0	10	20	30	200	210	410	0	0	0
						(iv) LF	20	40	60	2	6	8	0	0	0	18	34	52	0	0	0
	Total						1650	2250	3900	2	10	12	70	138	208	1578	2102	3680	1036	1275	2311
2	UGs	48	N/A	25	74	(i) Landless	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
						(ii) MF	1023	48	1071	0	2	2	40	6	46	983	40	1023	0	0	0
						(iii) SF	412	18	430	2	2	4	15	4	19	395	12	407	0	0	0
						(iv) LF	20	0	20	0	0	0	0	0	0	20	0	20	0	0	0
Total						1455	66	1521	2	4	6	55	10	65	1398	52	1450	0	0	0	

4.2: Details of Watershed Committees (WC)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
Name of WCs	Date of Registration as a Society (dd/mm/yyyy)	No. of members in WC	Designation	Name	M/F	SC	ST	SF	MF	LF	Land-less	UG	SHG	GP	Any other	Educl qualification	Function/s assigned#		
Write "Yes" if applicable																			
Barbila MWS	Under Process	10 Nos.	President	Zakir Hussain	M											PU	B, E & G		
			Secretary	Mozahar Ali	M												BA	B, E & G	
			Member	Abdul Hai	M					Y				Y				HSLC	B, E & G
			Member	Fereza Begum	F										Y			HSLC	B, E & G
			Member	Moriom Begum	F				Y									HSLC	B, E & G
			Member	Satish Ravidas	M	Y								Y				IV	B, E & G
			Member	Firoza Khatun	F										Y			VIII	B, E & G
			Member	Ala Uddin	M									Y				HSLC	B, E & G
			Member	Joyser Ali	M									Y				VIII	B, E & G
Member	Srimati Sitavan Ravidas	F	Y									Y			VIII	B, E & G			
Rowa MWS	Under Process	15 Nos.	President	Nazrul Haque	M											BA	B, E & G		
			Secretary	Maynal Haque	M												BA	B, E & G	
			Member	Akbar Ali	M									Y			HSLC	B, E & G	
			Member	Monowara Bibi	F										Y		VIII	B, E & G	
			Member	Regia Bibi	F										Y		VIII	B, E & G	
			Member	Basina Bewa	F							Y					V	B, E & G	
			Member	Monsur Ali	M									Y			HSLC	B, E & G	
			Member	Sanowar Ali	M												HSLC	B, E & G	
			Member	Kabir Uddin	M				Y								VIII	B, E & G	
			Member	Samsul Haque	M				Y								IX	B, E & G	
			Member	Aklesur Rahman	M						Y						BA	B, E & G	
			Member	Abdul Hamid	M									Y	Y		VIII	B, E & G	
			Member	Minara Khatun	F										Y		VIII	B, E & G	
			Member	Jahira Begum	F				Y								IX	B, E & G	
Member	Sayed Hasibur Islam	M									Y			HSLC	B, E & G				

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18				
Name of WCs	Date of Registration as a Society (dd/mm/yyyy)	No. of members in WC	Designation	Name	M/F	SC	ST	SF	MF	LF	Land-less	UG	SHG	GP	Any other	Educl qualification	Function/s assigned#				
																		Write "Yes" if applicable			
Jhagra MWS	Under Process	13 Nos.	President	Faruk Hussain	M												BA	B, E & G			
			Secretary	Ahor Ali	M														BA	B, E & G	
			Member	Anowar Mondal	M									Y					HSLC	B, E & G	
			Member	Shohiga Bibi	F								Y		Y					IX	B, E & G
			Member	Alima Bibi	F										Y					HSLC	B, E & G
			Member	Mahendra Sarkar	M	Y		Y							Y					V	B, E & G
			Member	Jahira Bibi	F								Y		Y					V	B, E & G
			Member	Jahirul Islam	M			Y												HSLC	B, E & G
			Member	Ali Asgor	M															BA	B, E & G
			Member	Riyajul Hoque	M										Y					HSLC	B, E & G
			Member	Azad Ali	M										Y					HS	B, E & G
			Member	Eunus Ali	M										Y					VIII	B, E & G
Member	Harish Ch. Ravidas	M	Y		Y							Y					HSLC	B, E & G			
Dumardaha MWS	Under Process	14 Nos.	President	Sadekul Haque	M													BBA	B, E & G		
			Secretary	Najibul Alom	M					Y									BA	B, E & G	
			Member	Farida Khatun	F										Y				HSLC	B, E & G	
			Member	Minara Khatun	F										Y					VIII	B, E & G
			Member	Monsura Khatun	F										Y					VIII	B, E & G
			Member	Abdul Majid Sk.	M									Y						IX	B, E & G
			Member	Ali Md. Chy.	M				Y											X	B, E & G
			Member	Delber Ali	M										Y					HS	B, E & G
			Member	Hayat Tarik	M				Y											VIII	B, E & G
			Member	Abdus Sattar	M				Y											HSLC	B, E & G
			Member	Moffessel Hoque Prodhany	M						Y									HS	B, E & G
			Member	Abdul Monnaf Ahmed	M										Y					VIII	B, E & G
			Member	Sohel Ahmed	M						Y									HS	B, E & G
			Member	Sofikul Ahmed	M										Y					VIII	B, E & G

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

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

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

Table No 4.3: WDT Particulars:

1	2	3	4	5	6	7
Sl. No.	Names of WDT members	M/F#	Age	Qualification / Experience	Description of professional training	Role/ Function*
1	Sri Mihir Kr. Roy	M	58	Range Officer (Diploma in civil engineering)	WDT nominee of IWMP Projects	Training for Management of IWMP project, Accountancy, & Awareness
2	Moinul Hoque Choudhury	M	56	B Sc. (Diploma in Sericulture)	Plantation & Silkworm Rearing	---
3	Sri Suraj Baruah	M	28	M. Sc (Agriculture) Extension service for 1 year 6 month	Marketing linkage, IIPM	---
4	Dr. Jani Borah	M	41	M. VSc. In Veterinary Microbiology, PHD. In life Science from Dibrugarh University	--	---
5	Sri Parashmani Kalita	M	24	Bachelor of Fisheries Science	2 months training	---
6	Sri Bholanath Nath	M	46	Diploma in Textile Technology	7 years service experience	---

*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
I. Social Audit

- H. Record of labour employed
J. Any other (please specify).

Table No. 4.4: PIA particulars

1	2	3
SL. No.	Particulars	Details of PIA
1.	Type of organization#	Govt. Department
2.	Name of organization	Department of Soil Conservation
3.	Designation & Address	Project Manager, WCDC-PMKS, Dhubri & Divisional Officer, Barpeta Soil Conservation Division, Barpeta
4.	Telephone	6901065038
5.	Fax	--
6.	E-mail	do_barpetasdivision1@rediffmail.com

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

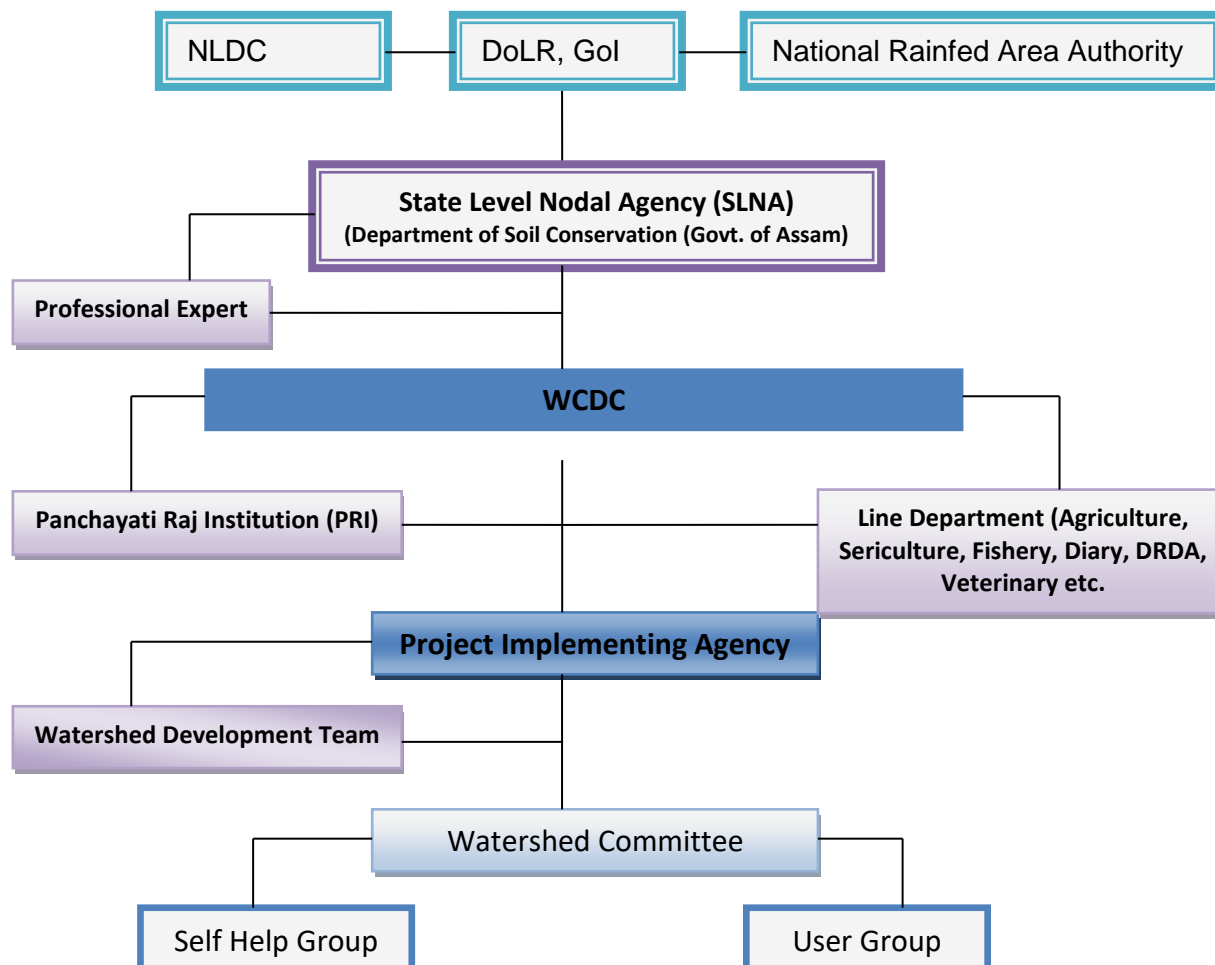
- | | | | |
|---|-------------------------|---|-----------------------------|
| A | Line Dept. | B | Autonomous organization |
| C | Govt. Institute | D | Research Bodies |
| E | Zila Parishad | F | Intermediate Panchayat |
| G | Voluntary Organisations | H | Any other (please specify). |

Table No. 4.5 Bank Account Details

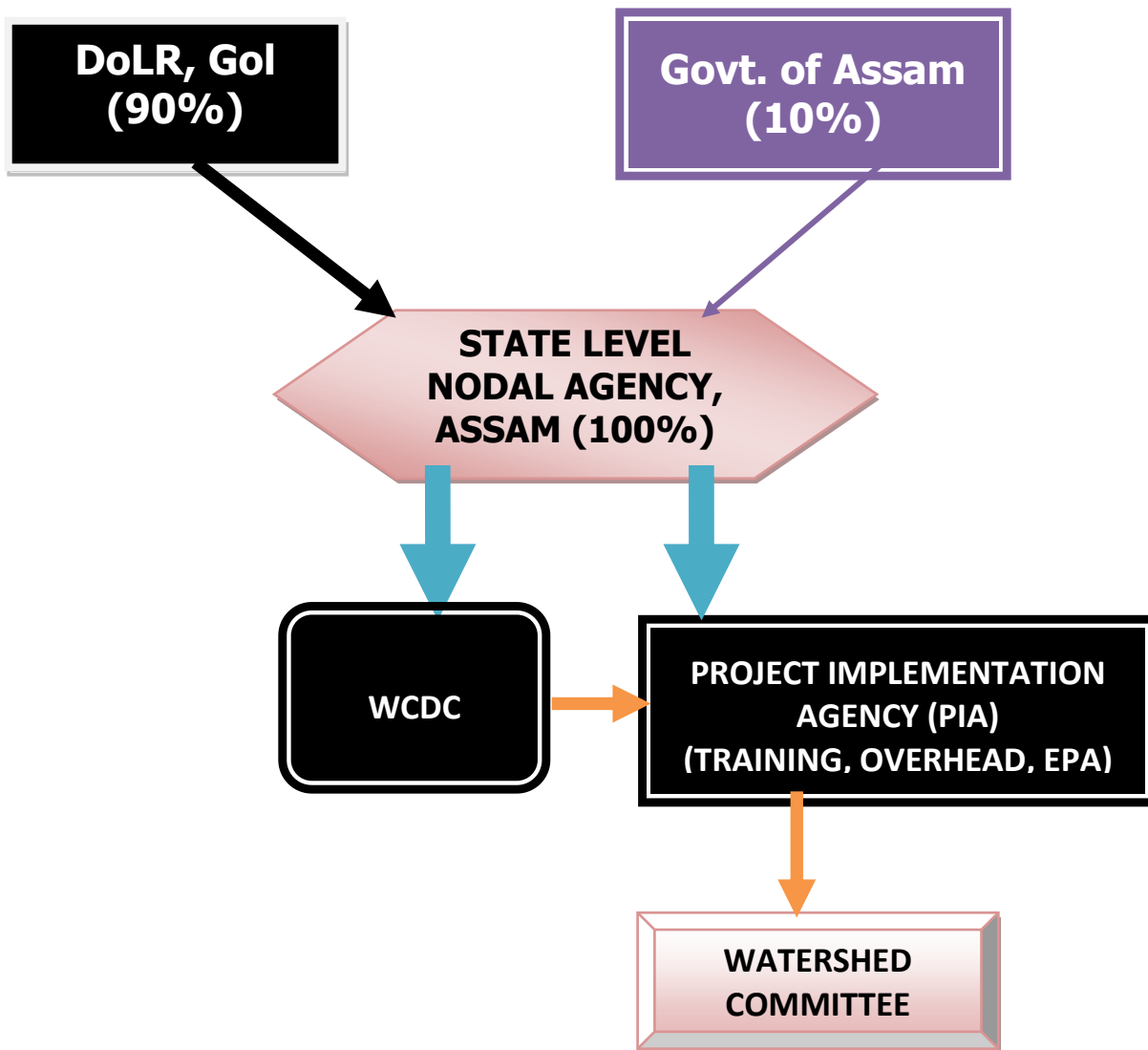
Name of WC/PIA	Name of the Bank/Place	Account No.	Name of the Signatory	Address
DHUBRI-I/2021-22 (DHAKABEEL SOUTH) WDC-PMKSY 2.0	STATE BANK OF INDIA, GAURIPUR BRANCH	40608759368	NIRANJAN SAIKIA	Divisional Officer, Barpeta Soil Conservation Division
Dumardaha MWC	SBI, Gauripur	40969361967	WDT Nominee and President	Divisional Officer, Barpeta Soil Conservation Division
Rowah MWC	SBI, Gauripur	40969361978	WDT Nominee and President	Divisional Officer, Barpeta Soil Conservation Division
Borbila MWS	SBI, Gauripur	40969361989	WDT Nominee and President	Divisional Officer, Barpeta Soil Conservation Division
Jhagra MWC	SBI, Gauripur	40969361990	WDT Nominee and President	Divisional Officer, Barpeta Soil Conservation Division

Institutional Mechanisms: (Enclose the following documents)

4.6.1 Flow Chart of Institutional Arrangement from District to watershed level



4.6.2 Fund Flow mechanisms – flow chart,



4.6.3 List of Watershed Records to be maintained

A) AT WATERSHED COMMITTEE LEVEL

- Registration Certificate
- Bylaws
- Detail Project Report
- Annual Action Plan
- Cash Book
- Project Fund Passbook

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

B) AT PROJECT IMPLEMENTING AGENCY LEVEL

- Cash Book
- Computerized Accounting System
- Vouchers

4.7 Documents of Agreements:

- 4.7.1) Watershed Committee Registration certificate - (under Process)
- 4.7.2 MoU – PIA – DWDU, PIA – WC - (under Process)
- 4.7.3 Resolution of Gram Sabha ,Aam Sabha, WC approving action plan#

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

4.8 Project Implementation

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

Co-ordination is the practice whereby more people or organizations work together to deal collectively with a shared objective.

The rationale for co-ordination shall be-

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

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

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

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

The first level monitoring shall be done by the project staff. The DWDU and PIA shall be responsible for monitoring the staff and task under them and Project Manager shall be accountable for monitoring all aspects of the project. The second level monitoring shall be done by third party. The monitoring team shall be collected the report through field visit, progress and measures performance including financial reporting.

Step for Monitoring Process:

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

Monitoring Tools

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

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

Table No. 4.8 Convergence plan with New Generation WDC-PMKSY 2.0:

1	2	3	4	5	6	7
S. No.	Names of Departments with Schemes converging with IWMP	Name of activity/task/structure proposed under convergence	Period of Support (Years)	Reference no. of activity/ task/ structure in DPR	Estimated Fund Proposed Under Convergence (in Rs.)	Level of decision taken for convergence Block/district
		(a) Structures (b) livelihoods (c) Capacity Building (d) Any other (pl. specify)				
1	Animal Husbandry	Livelihoods Activities for Asset less poor, Production System & Micro Enterprises	5	Table of Production System & Livelihood Activities	20.00	Circle, Block, Sub-division & District level
2	Fishery	Livelihoods Activities for Asset less poor, Production System & Micro Enterprises	5	Table of Production System & Livelihood Activities	36.0144	-do-
3	Handloom & textile	Livelihoods Activities for Asset less poor, Production System & Micro Enterprises	5	Livelihoods Activities for Asset less poor	25.00	Sub-division & District level
4	Agriculture	Production System & Micro Enterprises	5	Table of Production System	19.764	Circle, Block, Sub-division & District level
	Total				105.7784	

CHAPTER – 5

MANAGEMENT/ACTION PLAN

Description on methodology of plan adopted

a) Awareness generation interventions :

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

ii. Awareness campaign through distribution of leaflet and brochures describing about the IWMP project.

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

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

d) DPR preparation process:

The study area is confined to 25 villages of Dhubri district of Assam. Both primary and secondary data pertaining to the study were collected from various sources. While the secondary data were collected from various government organizations, published documents and literatures. The primary data were collected from the villagers staying within the watershed area. Structured questionnaires were used for collecting the primary data. The study team also visited many problem prone areas to obtain first-hand information of natural resources and their uses. Data and information thus collected have been analyzed to know about the characteristics of the problem and prospects. The following are the various steps of data collection & report preparation-

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

5.2 Details of Natural Resource Management Activities

1	2	3	4	5	6	7	8	9	10	11	12	13
Sl. No.	Name of the Activities (Structures)	Name of the Hamlet / Village	Plot Numbers (including Name of the local Patch)	Name of Beneficiaries	Area (in Ha)/ Dimension (in M/ Sq. M / CuM) of Structure	Unit Cost (Rs.)	Total Cost (in Lakh)	Contribution	Total Grant Amount (in Rs)	Year of Implementation (1st/2nd/3rd/4th/5th)	GPS POINTS	
											Long	Lat
Rowa MWS												
1	Agri. field bund with RCC slab culvert	Rowa Pt-I	All works under ROWA G.P	All villagers & farmers	1940 Rm.	567	11.00	1.1	11.00	1 st Year	26-060332	89-917701
2	Farm Pond	Rowa Pt-I			1717 Cum.	1717	4.00	0.40	4.00	2 nd Year	26-052315	89-926824
3	Agri Field Bund with slab culvert	Rowa Pt-I			2644 Cum.	245	6.48	0.648	6.48	5 th Year	26.061313	89.96681
4	Agri. field bund with RCC slab culvert	Rowa Pt-II			1058 Cum.	567	6.00	0.60	6.00	2 nd Year	26-050046	89-927696
5	Agri Field Bund	Rowah Pt-II			3151 Cum	238	7.50	0.75	7.50	4 th Year	26.050041	89.927671
6	Agri. field bund with RCC slab culvert	Burirmari		All villagers & farmers	2058 Rm.	567	11.67	1.167	11.67	1 st Year	26-674802	89-921657
7	Protective Afforestation Plantation	Rowa Pt-I		All villagers & farmers	0.66 Ha.	241000	1.60	0.16	1.60	1 st year	26-051240	89-925683
8	Farm Pond	Rowa Pt-III		1502 Cum.	233	3.50	0.35	3.50	2 nd Year	26-060390	89-935071	
9	Agri Field Bund	Rowa Pt-III		3865 Cum	238	9.20	0.92	9.20	3 rd Year	26.050136	89.917017	

Sl. No.	Name of the Activities (Structures)	Name of the Hamlet / Village	Plot Numbers (including Name of the local Patch)	Name of Beneficiaries	Area (in Ha)/ Dimension (in M/ Sq. M / CuM) of Structure	Unit Cost (Rs.)	Total Cost (in Lakh)	Contribution	Total Grant Amount (in Rs)	Year of Implementation (1st/2nd/3rd/4th/5th)	GPS POINTS	
											GPS POINTS	GPS POINTS
10	Brick canal	Rowa Pt-III	Rowa GP area	All villagers & farmers	391 Rm.	2560	10.00	1.00	10.00	1 st Year	26-060390	89-935072
11	Renovation of farm Pond	Rowa Pt-III			1459.22 Cum	233	3.40	0.34	3.40	1 st Year	26-050046	89-927696
12	Agri. field bund with RCC slab culvert	Rowa Pt-III			1587 Rm.	567	9.00	0.90	9.00	2 nd year	26-058046	89-939392
13	Brick Canal	Rowa Pt-II	Burirmari Village area	All villagers & farmers	270 Rm.	2560	6.91	0.691	6.91	1 st year	26-674802	89-921657
14	Brick canal	Burirmari			430 Rm.	2560	11.00	1.10	11.00	2 nd year	26-0748402	89-921657
15	Plantation				0.66 Ha.	24100	1.60	0.16	1.60	3 rd Year	26.063672	89.912720
17	Brick canal	Kismat Hasdaha Pt-IV	Kismat Hasdaha Village area	All villagers & farmers	391 Rm.	2560	10.00	1.00	10.00	2 nd year	26-056922	89-966506
19	Water Distribution Brick Channel				355 Rm.	2560	9.08	0.908	9.08	3 rd Year	26.060332	89.917701
Total for Rowa MWS							121.94	12.194	121.94			

1	2	3	4	5	6	7	8	9	10	11	12	13
Sl. No.	Name of the Activities (Structures)	Name of the Hamlet / Village	Plot Numbers (including Name of the local Patch)	Name of Beneficiaries	Area (in Ha)/ Dimension (in M/ Sq. M / CuM) of Structure	Unit Cost (Rs.)	Total Cost (in Lakh)	Contribution	Total Grant Amount (in Rs)	Year of Implementation (1st/2nd/3rd/4th/5th)	GPS POINTS	
											Long	Lat
Domardaha MWS												
1	RCC Slab Culvert	Dumardaha Pt-I	Dumardaha Area	All villagers & farmers	4.80 Sqm.	627	3.00	0.30	3.00	2 nd Year	26082642	89929081
2	Brick Channel	Dumardaha Pt-I			266 Cum.	2560	6.81	0.681	6.81	1 st Year	26.081185	89927985
3	Brick Channel	Tiamari Pt-II	Tiamari	All villagers & farmers	291 Rm.	2560	7.44	0.744	7.44	1 st Year	26071589	89954130
4	Brick Channel	Madhusaulmari pt.I	All Works under Madhusoulmari GP		195 Rm.	2560	5.00	0.50	5.00	1 st year	26074112	89929975
5	Agri Bund with Slab culvert (part A)				1587 Rm.	567	9.00	0.90	9.00	1 st year	26074112	89929975
6	Agri. Bund with Slab culvert (part B)				1323 Rm.	567	7.50	0.75	7.50	2 nd year	26074802	89921657
7	Agri Field Bund with slab culvert				2543 Cum.	245	6.2296	0.62296	6.2296	4 th Year	26.074112	89.929975
8	Renovation of Pond				1179 Cum.	190	2.24	0.224	2.24	5 th Year	26.073786	89.930494
9	Agri Field Bund				3674 Cum.	245	9.00	0.90	9.00	3 rd Year	26.074802	89.921657

1	2	3	4	5	6	7	8	9	10	11	12	13
Sl. No.	Name of the Activities (Structures)	Name of the Hamlet / Village	Plot Numbers (including Name of the local Patch)	Name of Beneficiaries	Area (in Ha)/ Dimension (in M/ Sq. M / CuM) of Structure	Unit Cost (Rs.)	Total Cost (in Lakh)	Contribution	Total Grant Amount (in Rs)	Year of Implementation (1st/2nd/3rd/4th /5th)	GPS POINTS	
											Long	Lat
10	Brick Channel	Madhusaul mari pt.I	All Works under Madhusoulm ari GP	All villagers & farmers	244 Rm	2560	6.25	0.625	6.25	2 nd year	26-074802	89-921657
11	Farm Pond	Madhusaulmari pt.II			2202 Cum.	233	5.13	0.513	5.13	1 st year	26-081808	89-931095
12	Brick channel				391 Rm	2560	10.00	1.00	10.00	1 st year	26-68829	89-935424
13	Water Distribution Brick Channel				391 Rm.	2560	10.00	1.00	10.00	3 rd Year	26.062712	89.941667
14	Brick Channel				318 Rm.	2560	8.16	0.816	8.16	3 rd year	26.071629	89.941667
15	Renovation of Pond				1200 Cum.	190	2.28	0.228	2.28	4 th year	26.072960	89.933343
16	Brick channel				293 Rm	2560	7.50	0.75	7.50	2 nd year	26-062712	89-941667
17	Agri Bund with Slab culvert				1411 Rm	567	8.00	0.80	8.0	2 nd year	26.060691	89-940913
18	Drainage Channel (Brick)				342 Rm.	2560	8.75	0.875	8.75	2 nd year	26-060249	89-942867
Total for Dumardaha MWS						122.2896	12.22896	122.2896				

1	2	3	4	5	6	7	8	9	10	11	12	13
Sl. No.	Name of the Activities (Structures)	Name of the Hamlet / Village	Plot Numbers (including Name of the local Patch)	Name of Beneficiaries	Area (in Ha)/ Dimension (in M/ Sq. M / CuM) of Structure	Unit Cost (Rs.)	Total Cost (in Lakh)	Contribution	Total Grant Amount (in Rs)	Year of Implementation (1st/2nd/3rd/4th/5th)	GPS POINTS	
											Long	Lat
Borbila MWS												
1	Brick channel	Adabari Pt-I	All works under Adabari Area	All villagers & farmers	342 Rm	2560	8.75	0.875	8.75	1 st Year	26.040321	89.923217
2	Brick channel				273 Rm	2560	7.00	0.70	7.00	2 nd Year	26.040321	89.923217
3	Periphery Bund				1587 Rm	567	9.00	0.90	9.00	2 nd Year	26.036390	89.918239
4	Agri Field Bund with Slab Culvert	Adabari Pt-II		All villagers & farmers	1499 Rm	567	8.50	0.85	8.50	2 nd year	26.036261	89.942793
5	Brick channel				342 Rm	2560	8.75	0.875	8.75	1 st Year	26.036261	89.942793
6	Farm Pond				3391 Cum	233	7.90	0.79	7.90	2 nd year	26.028880	89.933145
7	Agri Field Bund with slab culvert				3677 Cum.	245	9.01	0.901	9.01	3 rd Year	26.030934	89.937320
8	Drainage Channel (Brick)				340 Rm.	2560	8.71	0.871	8.71	3 rd Year	26.032837	89.944722
9	Water Distribution Brick Channel				254 Rm.	2560	6.50	0.65	6.50	5 th Year	26.036261	89.942793
10	Distribution Brick channel	Kasuarkhas Pt I	Brick Canal Brick canal	All villagers & farmers	342 Rm	2560	8.75	0.875	8.75	1 st Year	26.028737	89.905182

1	2	3	4	5	6	7	8	9	10	11	12	13
Sl. No.	Name of the Activities (Structures)	Name of the Hamlet / Village	Plot Numbers (including Name of the local Patch)	Name of Beneficiaries	Area (in Ha)/ Dimension (in M/ Sq. M / CuM) of Structure	Unit Cost (Rs.)	Total Cost (in Lakh)	Contribution	Total Grant Amount (in Rs)	Year of Implementation (1st/2nd/3rd/4th/5th)	GPS POINTS	
											Long	Lat
11	Brick Canal	Kasuarkhas Pt-I	Pond	All villagers & farmers	635 Rm.	2560	7.81	0.781	7.81	2 nd year	26.030359	89.902779
12	Brick channel	Kasuarkhas Pt -II	Brick Canal		391 Rm	2590	10.00	1.00	10.00	2 nd Year	26.035691	89.914462
13	Water Distribution Brick Channel				390 Rm.	2560	10.00	1.00	10.00	3 rd Year	26.061027	89.943091
14	Water Distribution Brick Channel				250 Rm.	2560	6.40	0.64	6.40	4 th Year	26.060249	89.942867
15	Agri. Field Bund with Slab Culvert	Borbila Pt I		Agri Field Bund with Slab Culvert at Borbila Vill.	All villagers & farmers	1411 Rm	567	8.00	0.80	8.00	1 st year	26.019105
16	Brick channel		Brick canal	342 Rm	2560	8.75	0.875	8.75	2 nd year	26.019027	89.911033	
17	Agri. Field Bund with Slab Culvert	Borbila Pt II	Borbila-II Agri Bund & Brick canal	All villagers & farmers	1323 Rm	567	7.50	0.75	7.50	1 st year	26.016469	89.891229
18	Brick channel	Chagolchhara Pt I	Chagalchara Brick canal	All villagers & farmers	258 Rm	2560	6.60	0.66	6.60	1 st year	26.020040	89.932345
Total for Borbila MWS							147.93	14.793	147.93			

1	2	3	4	5	6	7	8	9	10	11	12	13
Sl. No.	Name of the Activities (Structures)	Name of the Hamlet / Village	Plot Numbers (including Name of the local Patch)	Name of Beneficiaries	Area (in Ha)/ Dimension (in M/ Sq. M / CuM) of Structure	Unit Cost (Rs.)	Total Cost (in Lakh)	Contribution	Total Grant Amount (in Rs)	Year of Implementation (1st/2nd/3rd/4th/5th)	GPS POINTS	
											Long	Lat
Jhagra MWS												
1	Farm Pond	Jhagra Pt II	Jhagra village area	All villagers & farmers	1377 Cum	233	5.9112	0.59112	5.9112	1 st Year	26.039530	89.940798
2	Brick Channel				193 Rm	2560	4.93	0.493	4.93	1 st Year	26.039530	89.940798
3	Agri Field Bund with slab Culvert	Folimari Pt I	Folimari Village area	All villagers & farmers	2116 Rm	567	12.00	1.20	12.00	2 nd Year	26.041056	89.975407
4	Brick Channel				391 Rm	2560	10.00	1.00	10.00	1 st Year	26.041056	89.975407
5	Water Harvesting Tank				2000 Cum.	233	4.66	0.466	4.66	3 rd Year	26.039436	89.977585
6	Water Distribution Brick Channel				280 Rm.	2560	7.16	0.716	7.16	3 rd Year	26.034367	89.945421
7	Plantation				1.55 Ha.	241000	3.75	0.375	3.75	3 rd Year	--	--
8	Renovation of Pond	Jhagra Pt III	Under Jhagra MWS area	All villagers & farmers	1253 Cum.	190	2.38	0.238	2.38	4 th Year	26.039530	89.940798
9	Agri Field Bund				3328 Cum.	238	7.92	0.792	7.92	4 th Year	26.051596	89.959444

10	Protective Afforestation	Jhagra Pt I	All villagers & farmers	3.11 Ha.	241000	7.50	0.75	7.50	1 st year	26.025383	89.960925
11	Brick Canal			351 Rm	2560	8.9926	0.89926	8.9926	2 nd year	26.026368	89.954368
12	Boulder Revetment & Pitching			104 Rm.	11575	12.038	1.2038	12.038	5 th Year	26.026368	89.954368

1	2	3	4	5	6	7	8	9	10	11	12	13
Sl. No.	Name of the Activities (Structures)	Name of the Hamlet / Village	Plot Numbers (including Name of the local Patch)	Name of Beneficiaries	Area (in Ha)/ Dimension (in M/ Sq. M / CuM) of Structure	Unit Cost (Rs.)	Total Cost (in Lakh)	Contrib ution	Total Grant Amount (in Rs)	Year of Implementation (1st/2nd/3rd/4th /5th)	GPS POINTS	
											Long	Lat
13	Brick Channel	Chagolchara Pt III	Chagolchara Vill. area	All villagers & farmers	383 Rm	2560	9.80	0.98	9.80	1 st year	26.029196	89.944985
14	Plantation				1.55 Ha.	241000	3.75	0.375	3.75	3 rd Year	26.025172	89.942513
15	Water Distribution Brick Channel	Chotobasjhani	Chotobasjani Vill area	All villagers & farmers	371 Rm.	2560	9.50	0.95	9.50	3 rd Year	26.022267	89.947262
16	Brick Channel				391 Rm	2560	10.00	1.00	10.00	2 nd year	26.022267	89.899472
Total for Jhagra MWS							120.2918	12.02918	120.2918			

(Total NRM for Rowa MWS + Domardaha MWS + Borbila MWS + Jhagra MWS = Rs. 512.4504 Lakhs)

Table No. 5.2.1 Soil and Moisture Conservation structures

1	2	3	4	5	6	7	8	9	10	11
Sl. No.	Name of the Activities (Structures)	Name of the Hamlet / Village	Plot Numbers (including Name of the local Patch)	Name of Beneficiaries	Area (in Ha)/ Dimension (in M/ Sq. M / CuM) of Structure	Unit Cost	Total Cost (in Rs.)	Contribution	Total Grant Amount (in Rs)	Year of Implementation (1st/2nd/3rd/4th/5th)
1	Agri. field bund /Earthen bund & Periphery Bund/Brick Canal/Drainage Channel/RCC Slab Culvert	Rowa Pt-I	--	All villagers & farmers	1940 Rm.	567	11.00	1.1	11.00	1 st Year
2		Rowa Pt-I	--		2644 Cum.	245	6.48	0.648	6.48	5 th Year
3		Rowa Pt-II	--		1058 Cum.	567	6.00	0.60	6.00	2 nd Year
4		Rowah Pt-II	--		3151 Cum	238	7.50	0.75	7.50	4 th Year
5		Burirmari	--		2058 Rm.	567	11.67	1.167	11.67	1 st Year
6		Rowa Pt-III	--		3865 Cum	238	9.20	0.92	9.20	3 rd Year
7		Rowa Pt-III	--		391 Rm.	2560	10.00	1.00	10.00	1 st Year
8		Rowa Pt-III	--		1587 Rm.	567	9.00	0.90	9.00	2 nd year
9		Rowa Pt-II	--		270 Rm.	2560	6.91	0.691	6.91	1 st year
10		Burirmari	--		430 Rm.	2560	11.00	1.10	11.00	2 nd year
11		Kismat Hasdaha Pt-IV	--		391 Rm.	2560	10.00	1.00	10.00	2 nd year
12		Kismat Hasdaha Pt-IV	--		355 Rm.	2560	9.08	0.908	9.08	3 rd Year
13		Dumardaha Pt-I	--		4.80 Sqm.	627	3.00	0.30	3.00	2 nd Year
14		Dumardaha Pt-I	--		266 Cum.	2560	6.81	0.681	6.81	1 st Year
15		Tiamari Pt-II			291 Rm.	2560	7.44	0.744	7.44	1 st Year
16		Madhusaulmari pt.I			195 Rm.	2560	5.00	0.50	5.00	1 st year
17		Madhusaulmari pt.I			1587 Rm.	567	9.00	0.90	9.00	1 st year

1	2	3	4	5	6	7	8	9	10	11
Sl. No.	Name of the Activities (Structures)	Name of the Hamlet / Village	Plot Numbers (including Name of the local Patch)	Name of Beneficiaries	Area (in Ha)/ Dimension (in M/ Sq. M / CuM) of Structure	Unit Cost	Total Cost (in Rs.)	Contribution	Total Grant Amount (in Rs)	Year of Implementation (1st/2nd/3rd/4th/5th)
18	Agri. field bund /Earthen bund & Periphery Bund/Brick Canal/Drainage Channel/RCC Slab Culvert	Madhusaulmari pt.I	--	All villagers & farmers	1323 Rm.	567	7.50	0.75	7.50	2 nd year
19			--		2543 Cum.	245	6.2296	0.62296	6.2296	4 th Year
20			--		3674 Cum.	245	9.00	0.90	9.00	3 rd Year
21			--		244 Rm	2560	6.25	0.625	6.25	2 nd year
22		Madhusaulmari pt.II	--		391 Rm	2560	10.00	1.00	10.00	1 st year
23			--		391 Rm.	2560	10.00	1.00	10.00	3 rd Year
24			--		318 Rm.	2560	8.16	0.816	8.16	3 rd year
25			--		293 Rm	2560	7.50	0.75	7.50	2 nd year
26			--		1411 Rm	567	8.00	0.80	8.0	2 nd year
27			--		342 Rm.	2560	8.75	0.875	8.75	2 nd year
28		Adabari Pt-I	--		342 Rm	2560	8.75	0.875	8.75	1 st Year
29			--		273 Rm	2560	7.00	0.70	7.00	2 nd Year
30			--		1587 Rm	567	9.00	0.90	9.00	2 nd Year
31		Adabari Pt-II	--		1499 Rm	567	8.50	0.85	8.50	2 nd year
32			--		342 Rm	2560	8.75	0.875	8.75	1 st Year
33			--		3677 Cum.	245	9.01	0.901	9.01	3 rd Year
34			--		340 Rm.	2560	8.71	0.871	8.71	3 rd Year
35			--		254 Rm.	2560	6.50	0.65	6.50	5 th Year
36		Kasuarkhas Pt I	--		342 Rm	2560	8.75	0.875	8.75	1 st Year
37			--		635 Rm.	2560	7.81	0.781	7.81	2 nd year
38		Kasuarkhas Pt-II	--		391 Rm	2590	10.00	1.00	10.00	2 nd Year
39			--		390 Rm.	2560	10.00	1.00	10.00	3 rd Year
40			--		250 Rm.	2560	6.40	0.64	6.40	4 th Year
41	Borbila Pt I	--	1411 Rm	567	8.00	0.80	8.00	1 st year		
42		--	342 Rm	2560	8.75	0.875	8.75	2 nd year		
43	Borbila Pt II	--	1323 Rm	567	7.50	0.75	7.50	1 st year		

44		Chagolchara Pt I			258 Rm	2560	6.60	0.66	6.60	1 st year
----	--	------------------	--	--	--------	------	------	------	------	----------------------

1	2	3	4	5	6	7	8	9	10	11
Sl. No.	Name of the Activities (Structures)	Name of the Hamlet / Village	Plot Numbers (including Name of the local Patch)	Name of Beneficiaries	Area (in Ha)/ Dimension (in M/ Sq. M / CuM) of Structure	Unit Cost	Total Cost (in Rs.)	Contribution	Total Grant Amount (in Rs)	Year of Implementation (1st/2nd/3rd/4th/ 5th)
45	Agri. field bund /Earthen bund & Periphery Bund/Brick Canal/Drainage Channel/RCC Slab Culvert	Jhagra Pt II	--	All villagers & farmers	193 Rm	2560	4.93	0.493	4.93	1 st Year
46		Folimari Pt I	--		2116 Rm	567	12.00	1.20	12.00	2 nd Year
47			--		391 Rm	2560	10.00	1.00	10.00	1 st Year
48			--		280 Rm.	2560	7.16	0.716	7.16	3 rd Year
49			--		3328 Cum.	238	7.92	0.792	7.92	4 th Year
50		Jhagra Pt I	--		351 Rm	2560	8.9926	0.89926	8.9926	2 nd year
51		Chagolchara Pt III	--		383 Rm	2560	9.80	0.98	9.80	1 st year
52		Chotobashjani	--		371 Rm.	2560	9.50	0.95	9.50	3 rd Year
53			--		391 Rm	2560	10.00	1.00	10.00	2 nd year
Total										

Table No. 5.2.2 Water Harvesting Structures

1	2	3	4	5	6	7	8	9	10	11
Sl. No.	Name of the Activities (Structures)	Name of the Hamlet / Village	Plot Numbers (including Name of the local Patch)	Name of Beneficiaries	Area (in Ha)/ Dimension (in M/ Sq. M / CuM) of Structure	Unit Cost	Total Cost (in Rs.)	Contribution	Total Grant Amount (in Rs)	Year of Implementation (1st/2nd/3rd/4th/5th)
1	Water Harvesting Pond/Tank (Farm Pond)/ Renovation of Pond	Rowa Pt-I	---	All villagers	1717 Cum.	1717	4.00	0.40	4.00	2 nd Year
2		Rowa Pt-III	---		1502 Cum.	233	3.50	0.35	3.50	2 nd Year
3		Rowa Pt-III	---		1459.22 Cum	233	3.40	0.34	3.40	1 st Year
4		Madhusaulmari pt.I	---		1179 Cum.	190	2.24	0.224	2.24	5 th Year
5		Madhusaulmari pt.II	---		2202 Cum.	233	5.13	0.513	5.13	1 st year
6		---	---		1200 Cum.	190	2.28	0.228	2.28	4 th year
7		Adabari Pt-II	---		3391 Cum	233	7.90	0.79	7.90	2 nd year
8		Jhagra Pt-II	---		1377 Cum	233	5.9112	0.59112	5.9112	1 st Year
9		Folimari Pt-I	---		2000 Cum.	233	4.66	0.466	4.66	3 rd Year
10		Jhagra Pt-III	---		1253 Cum.	190	2.38	0.238	2.38	4 th Year
Total							39.12348	3.912348	39.12348	

Table No. 5.2.3 Vegetative Covers

1	2	3	4	5	6	7	8	9	10	11
Sl. No.	Name of the Activities (Structures)	Name of the Hamlet / Village	Plot Numbers (including Name of the local Patch)	No. of Beneficiaries	Area (in Ha)/ Dimension (in M/ Sq. M / CuM) of Structure	Unit Cost	Total Cost (Rs. In lakhs)	Contribution	Total Grant Amount (Rs. In lakhs)	Year of Implementation (1st/2nd/3rd/4th/5th)
1	Protective Afforestation	Rowa Pt-I	---	All villagers	0.66 Ha.	241000	1.60	0.16	1.60	1 st year
2	Plantation	Burirmari	---		0.66 Ha.	24100	1.60	0.16	1.60	3 rd Year
3	Plantation	Folimari Pt-I	---		1.55 Ha.	241000	3.75	0.375	3.75	3 rd Year
4	Protective Afforestation	Folimari Pt-I	---		3.11 Ha.	241000	7.50	0.75	7.50	1 st year
5	Plantation	Chagolchara Pt III	---		1.55 Ha.	241000	3.75	0.375	3.75	3 rd Year
Total							18.20	1.82	18.20	

Table No. 5.2.3(i) Vegetative & Engineering Structures

1	2	3	4	5	6	7	8	9	10	11
Sl. No.	Name of the Activities (Structures)	Name of the Hamlet / Village	Plot Numbers (including Name of the local Patch)	No. of Beneficiaries	Area (in Ha)/ Dimension (in M/ Sq. M / CuM) of Structure	Unit Cost	Total Cost (Rs. In lakhs)	Contribution	Total Grant Amount (Rs. In lakhs)	Year of Implementation (1st/2nd/3rd/4th/5th)

1	Boulder Revetment & Pitching	Jhagra Pt-I	---	All villagers	104 Rm.	11575	12.038	1.2038	12.038	5 th Year
Total							12.038	1.2038	12.038	

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								
						S. No.	Name of structures	Area (ha)	Farmers			Total units (No./ cu.m./ rmt)	UNIT COST (Rs)	Proposed plan Estimated cost* (Rs. in lakh)				Farmers contribution (in Rs)	Grant Portion (Rs. in lakh)
														M	W	O	T		
A	PRIVATE LAND																		
1	Graded Bund			32800	218	7.15	60.78	3.58	71.50	715040	7150400								
2	Periphery Bund			13825	218	3.01	25.62	1.51	30.14	301385	3013850								
Grand total (A+B)		0	0	46625	436	10.16425	86.396125	5.082125	101.6425	1016425	10164250								

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

5.3.2: Details of engineering structures for Water Harvesting WHS

1	2	3	4	5								
				S. No.	Name of structures	Total units (No./ cu.m./ rmt)	UNIT COST (Rs)	Proposed plan Estimated cost* (Rs. in lakh)				Farmers contribution (Rs)
								(Rs. in lakh)				
								M	W	O	T	
A2	Common structures											
1	Reclamation of Brick Canal	23472	346	8.12	69.03	4.06	81.21	812131				
2	Reclamation of Drainage Channel	11650	355	4.14	35.15	2.07	41.36	413575				
3	Slab Culvert	15	84500	1.27	10.77	0.63	12.68	126750				
4	Pond	22	84500	1.86	15.80	0.93	18.59	185900				
Grand total		35159	169701	15	131	8	154	1538356				

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

1	2	3		4			
Sl. No.	Name of structure/ work	Area (ha)	No. of plants	Proposed plan			
				Unit Cost (Rs)	Estimated cost (Rs. in lakh)	Farmer Contribution (Rs. in lakh)	Grant (Rs. in lakh)
1	Bio Engineering (Vetiver Plantation)	1 Ha.	5926	160000	160000	---	160000
Total		1 Ha.	5926	160000	160000	---	160000

PRODUCTION SYSTEM

Rowa MWS

Sl. No.	Name of Activities	Location/Village	Unit	Unit Cost (in Rs.)	Physical	Financial (in lakhs)	Year
							1st/2nd/3rd/4th/5th
1	Miltch Cow	Burimari	No.	43920/Unit	4	1.7568	3rd & 4th
2	Semi intensive pisciculture				3	1.3176	2nd & 5th
3	Goatery				14	3.0744	1st & 3rd
4	Miltch Cow	Rowa Pt-I	No.	43920/Unit	6	2.6352	3rd & 4th
5	Semi intensive pisciculture				5	2.1960	2nd & 5th
6	Assam lemon cultivation				9	1.9764	1st & 3rd
7	Goatery	Rowa Pt-II	No.	21960/Unit	10	2.1960	1st & 3rd
8	Miltch Cow				5	2.196	3rd & 4th
9	Semi intensive pisciculture				5	2.196	2nd & 5th
10	Assam lemon cultivation				8	1.7568	1st & 3rd

11	Poultry (Commercial Broiler Unit)	Rowa Pt-III	No.	21960/Unit	7	1.5372	2nd & 5th
12	Semi intensive pisciculture			43920/Unit	6	2.6352	3rd & 4th
13	Goatery			21960/Unit	10	2.1960	1st & 3rd
14	Miltch Cow			43920/Unit	7	3.0744	3rd & 4th
15	Assam lemon cultivation	Kismat Hasdaha-IV	No.	21960/Unit	12	2.6352	1st & 3rd
16	Miltch Cow			43920/Unit	6	2.6352	3rd & 4th
Total					117	36.0144	

PRODUCTION SYSTEM
Dumardaha MWS

Sl. No.	Name of Activities	Location/Village	Unit	Unit Cost (in Rs.)	Physical	Financial (in lakhs)	Year	
							1st/2nd/3rd/4th/5th	
1	Miltch Cow	Domardaha Pt-I	No.	43920/Unit	4	1.7568	3rd & 4th	
2	Semi intensive pisciculture				3	1.3176	2nd & 5th	
3	Bio flog				-/Unit	1.9764	1st & 3rd	
4	Miltch Cow	Tiamari Pt-II	No.	43920/Unit	6	2.6352	3rd & 4th	
5	Semi intensive pisciculture				5	2.1960	2nd & 5th	
6	Assam lemon cultivation				21960/Unit	9	1.9764	1st & 3rd
7	Goatery	Madhusoulmari Pt-I	No.	21960/Unit	10	2.1960	1st & 3rd	
8	Miltch Cow				43920/Unit	6	2.6352	3rd & 4th
9	Semi intensive pisciculture				43920/Unit	5	2.196	2nd & 5th

10	Assam lemon cultivation			21960/Unit	8	1.7568	1st & 3rd
11	Poultry (Commercial Broiler Unit)	Madhusoulmari Pt-II	No.	21960/Unit	8	1.7568	2nd & 5th
12	Semi intensive pisciculture			43920/Unit	8	3.5136	3rd & 4th
13	Goatery			21960/Unit	10	4.3920	1st & 3rd
14	Miltch Cow			43920/Unit	7	3.0744	3rd & 4th
15	Assam lemon cultivation	Gauripur	No.	21960/Unit	8	1.7568	1st & 3rd
16	Miltch Cow			43920/Unit	6	2.6352	3rd & 4th
Total					112	37.7712	

Borbila MWS

Sl. No.	Name of Activities	Location/Village	Unit	Unit Cost (in Rs.)	Physical	Financial (in lakhs)	Year
							1st/2nd/3rd/4th/5th
1	Miltch Cow	Adabari Pt-I	No.	43920/Unit	4	1.7568	3rd & 4th
2	Semi intensive pisciculture				4	1.7568	2nd & 5th
3	Goatery				21960/Unit	9	1.9764
4	Miltch Cow	Adabari Pt-II	No.	43920/Unit	5	2.196	3rd & 4th
5	Semi intensive pisciculture				4	1.7568	2nd & 5th
6	Carpenter				4	1.7568	1st & 3rd
7	Goatery				21960/Unit	8	1.7568
8	Miltch Cow	Kasuarkas Pt-II	No.	43920/Unit	4	1.7568	2nd & 5th
9	Semi intensive pisciculture				3	1.3176	1st & 3rd
10	Goatery				21960/Unit	9	1.9764
11	Miltch Cow	Kasuarkas Pt-I	No.	43920/Unit	6	2.6352	3rd & 4th

12	Semi intensive pisciculture				5	2.1960	2nd & 5th		
13	Assam lemon cultivation			21960/Unit	9	1.9764	1st & 3rd		
14	Goatery	Borbila Pt-II	No.	21960/Unit	10	2.1960	1st & 3rd		
15	Carpenter			43920/Unit	5	2.1960	3rd & 4th		
16	Miltch Cow			43920/Unit	6	2.6352	3rd & 4th		
17	Semi intensive pisciculture			43920/Unit	5	2.196	2nd & 5th		
18	Assam lemon cultivation			21960/Unit	8	1.7568	1st & 3rd		
19	Poultry (Commercial Broiler Unit)			Jangila	No.	21960/Unit	8	1.7568	2nd & 5th
20	Semi intensive pisciculture	43920/Unit	8			3.5136	3rd & 4th		
21	Goatery	21960/Unit	10			4.3920	1st & 3rd		
22	Miltch Cow	43920/Unit	7			3.0744	3rd & 4th		
23	Carpenter	Chagalchara Pt-I	No.			43920/Unit	5	2.1960	3rd & 4th
24	Goatery					21960/Unit	9	1.9764	3rd & 4th
25	Assam lemon cultivation			21960/Unit	8	1.7568	1st & 3rd		
26	Miltch Cow			43920/Unit	6	2.6352	3rd & 4th		
Total					169	57.096			

Jhagra MWS

Sl. No.	Name of Activities	Location/Village	Unit	Unit Cost (in Rs.)	Physical	Financial (in lakhs)	Year
							1st/2nd/3rd/4th/5th
1	Miltch Cow	Jhagra Pt-II	No.	43920/Unit	3	1.3176	3rd & 4th
2	Semi intensive pisciculture				2	0.8784	2nd & 5th
3	Goatery				4	0.8784	1st & 3rd
4	Miltch Cow	Folimari Pt-I	No.	43920/Unit	5	2.196	3rd & 4th
5	Semi intensive pisciculture				3	1.3176	2nd & 5th
6	Carpenter				6	2.6352	1st & 3rd
7	Goatery				21960/Unit	8	1.7568
8	Miltch Cow	Jhagra Pt-III	No.	43920/Unit	2	0.8784	2nd & 5th
9	Semi intensive pisciculture				2	0.8784	1st & 3rd
10	Goatery				21960/Unit	3	0.6048
11	Miltch Cow	Jhagra Pt-I	No.	43920/Unit	4	1.7568	3rd & 4th

12	Semi intensive pisciculture				2	0.8784	2nd & 5th
13	Assam lemon cultivation			21960/Unit	3	0.6588	1st & 3rd
14	Goatery	Sagalsara Pt-III	No.	21960/Unit	3	0.6588	1st & 3rd
15	Carpenter			43920/Unit	3	1.3176	3rd & 4th
16	Miltch Cow			43920/Unit	2	0.8784	3rd & 4th
17	Semi intensive pisciculture			43920/Unit	2	0.8784	2nd & 5th
18	Assam lemon cultivation			21960/Unit	3	0.6588	1st & 3rd
19	Poultry (Commercial Broiler Unit)	Chotobashjani	No.	21960/Unit	3	0.6588	2nd & 5th
20	Semi intensive pisciculture			43920/Unit	2	0.8784	3rd & 4th
21	Goatery			21960/Unit	5	1.0980	1st & 3rd
22	Miltch Cow			43920/Unit	7	3.0744	3rd & 4th
23	Carpenter			43920/Unit	2	0.8784	3rd & 4th
24	Goatery	Chagalchara Pt-II	No.	21960/Unit	9	1.9764	3rd & 4th
25	Assam lemon cultivation			21960/Unit	8	1.7568	1st & 3rd
26	Miltch Cow			43920/Unit	3	1.3176	3rd & 4th
Total					99	32.6664	

LIVELIHOOD FOR ASSETELESS PERSONS

Rowa MWS

Sl. No.	Name of Activities	Location/Village	Unit	Unit Cost (in Rs.)	Physical	Financial (in lakhs)	Year
							1st/2nd/3rd/4th/5th
1	Handloom	Burimari	No.	25000/SHG	7	1.75	3rd & 4th
2	Vermi Compost			25000/SHG	8	2.00	2nd & 5th
3	Goat farming			25000/SHG	7	1.75	1st & 3rd
4	Miltch Cow	Rowa Pt-I	No.	25000/SHG	7	1.75	3rd & 4th
5	Semi intensive pisciculture			25000/SHG	7	1.75	2nd & 5th
6	Handloom			25000/SHG	8	2.00	1st & 3rd
7	Poultry (Commercial Broiler Unit)	Rowa Pt-II	No.	25000/SHG	7	1.75	1st & 3rd
8	Miltch Cow			25000/SHG	7	1.75	3rd & 4th
9	Semi intensive pisciculture			25000/SHG	8	1.8925	2nd & 5th
10	Handloom			25000/SHG	7	1.75	1st & 3rd

11	Poultry (Commercial Broiler Unit)	Rowa Pt-III	No.	25000/SHG	7	1.75	2nd & 5th
12	Semi intensive pisciculture			25000/SHG	7	1.75	3rd & 4th
13	Goat farming			25000/SHG	8	2.00	1st & 3rd
14	Miltch Cow			25000/SHG	7	1.75	3rd & 4th
15	Handloom	Kismat Hasdaha-IV	No.	25000/SHG	7	1.75	1st & 3rd
16	Semi intensive pisciculture			25000/SHG	7	1.75	3rd & 4th
17	Poultry (Commercial Broiler Unit)			25000/SHG	7	1.75	1st & 3rd
18	Goat farming			25000/SHG	7	1.75	3rd & 4th
19	Vermi Compost			25000/SHG	8	2.00	2nd & 5th
20	Duck farming			25000/SHG	7	1.75	3rd & 4th
Total					79	36.1425	

LIVELIHOOD FOR ASSETELESS PERSONS

Domardaha MWS

Sl. No.	Name of Activities	Location/Village	Unit	Unit Cost (in Rs.)	Physical	Financial (in lakhs)	Year
							1st/2nd/3rd/4th/5th
1	Poultry (Commercial Broiler Unit)	Domardaha Pt-I	No.	45750/SHG	2	0.9150	3rd & 4th
2	Goat farming			45750/SHG	3	1.3725	2nd & 5th
3	Vermi Compost			45750/SHG	2	0.9150	1st & 3rd
4	Goat farming	Tiamari Pt-II	No.	45750/SHG	2	0.9150	3rd & 4th
5	Miltch Cow			45750/SHG	2	0.9150	2nd & 5th
6	Handloom			45750/SHG	1	0.4575	1st & 3rd
7	Miltch Cow	Madhusoulmari Pt-I	No.	45750/SHG	7	3.2025	1st & 3rd
8	Semi intensive pisciculture			45750/SHG	5	2.2875	3rd & 4th

9	Goat farming			45750/SHG	5	2.2875	1st & 3rd
10	Vermi Compost			45750/SHG	6	2.7450	2nd & 5th
11	Handloom			45750/SHG	4	1.8300	2nd & 5th
12	Goat farming			45750/SHG	5	2.2875	1st & 3rd
13	Vermi Compost	Madhusoulmari Pt-II	No.	45750/SHG	5	2.2875	2nd & 5th
14	Handloom			45750/SHG	7	3.2025	3rd & 4th
15	Miltch Cow			45750/SHG	6	2.7450	1st & 3rd
16	Duck farming			45750/SHG	5	2.2875	3rd & 4th
17	Semi intensive pisciculture			45750/SHG	5	2.2875	1st & 3rd
18	Poultry (Commercial Broiler Unit)			45750/SHG	4	1.8300	3rd & 4th
19	Miltch Cow	Gauripur	No.	45750/SHG	3	1.3725	1st & 3rd
20	Handloom			45750/SHG	3	1.3725	3rd & 4th
Total					82	37.5150	

Borbila MWS

Sl. No.	Name of Activities	Location/Village	Unit	Unit Cost (in Rs.)	Physical	Financial (in lakhs)	Year
							1st/2nd/3rd/4th/5th
1	Miltch Cow	Adabari Pt-I	No.	45750/SHG	8	3.6600	3rd & 4th
2	Semi intensive pisciculture			45750/SHG	5	2.2875	2nd & 5th
3	Goat farming			45750/SHG	6	2.7450	1st & 3rd
4	Duck farming	Adabari Pt-II	No.	45750/SHG	9	4.1175	3rd & 4th
5	Semi intensive pisciculture			45750/SHG	5	2.2875	2nd & 5th
6	Poultry (Commercial Broiler Unit)			45750/SHG	7	3.2025	1st & 3rd
7	Handloom			45750/SHG	7	3.2025	3rd & 4th
8	Miltch Cow	Kasuarkas Pt-II	No.	45750/SHG	4	1.8300	2nd & 5th
9	Semi intensive pisciculture			45750/SHG	3	1.3725	1st & 3rd
10	Goat farming			45750/SHG	3	1.3725	3rd & 4th

11	Goat farming	Kasuarkas Pt-I	No.	45750/SHG	5	2.2875	3rd & 4th
12	Miltch Cow			45750/SHG	3	1.3725	2nd & 5th
13	Handloom			45750/SHG	4	1.8300	1st & 3rd
14	Duck farming	Borbila Pt-I	No.	45750/SHG	6	2.7450	1st & 3rd
15	Semi intensive pisciculture			45750/SHG	3	1.3725	3rd & 4th
16	Poultry (Commercial Broiler Unit)			45750/SHG	3	1.3725	3rd & 4th
17	Miltch Cow	Borbila Pt-II	No.	45750/SHG	7	3.2025	2nd & 5th
18	Handloom			45750/SHG	5	2.2875	1st & 3rd
19	Goat farming	Jangila	No.	45750/SHG	2	0.9150	2nd & 5th
20	Vermi Compost			45750/SHG	3	1.3725	3rd & 4th
21	Handloom			45750/SHG	2	0.9150	1st & 3rd
22	Semi intensive pisciculture			45750/SHG	2	0.9150	3rd & 4th
23	Miltch Cow	Chagalchara Pt-I	No.	45750/SHG	8	3.6600	3rd & 4th
24	Semi intensive pisciculture			45750/SHG	5	2.2875	3rd & 4th
25	Goat farming			45750/SHG	5	2.2875	1st & 3rd
26	Duck farming			45750/SHG	5	2.2875	3rd & 4th
Total					125	57.1875	

LIVELIHOOD FOR ASSETELESS PERSONS

Jhagra MWS

Sl. No.	Name of Activities	Location/Village	Unit	Unit Cost (in Rs.)	Physical	Financial (in lakhs)	Year
							1st/2nd/3rd/4th/5th
1	Miltch Cow	Jhagra Pt-II	No.	45750/SHG	3	1.3725	3rd & 4th
2	Semi intensive pisciculture			45750/SHG	2	0.9150	2nd & 5th
3	Goat farming			45750/SHG	3	1.3725	1st & 3rd
4	Handloom	Folimari Pt-I	No.	45750/SHG	5	2.2875	3rd & 4th
5	Semi intensive pisciculture			45750/SHG	4	1.8300	2nd & 5th
6	Miltch Cow			45750/SHG	6	2.7450	1st & 3rd
7	Duck farming			45750/SHG	5	2.2875	3rd & 4th
8	Duck farming	Jhagra Pt-III	No.	45750/SHG	3	1.3725	2nd & 5th
9	Semi intensive pisciculture			45750/SHG	2	0.9150	1st & 3rd

10	Poultry (Commercial Broiler Unit)			45750/SHG	2	0.9150	3rd & 4th
11	Miltch Cow	Jhagra Pt-I	No.	45750/SHG	4	1.8300	3rd & 4th
12	Semi intensive pisciculture			45750/SHG	3	1.3725	2nd & 5th
13	Goat farming			45750/SHG	5	2.2875	1st & 3rd
14	Miltch Cow			45750/SHG	3	1.3725	1st & 3rd
15	Handloom	Sagalsara Pt-III	No.	45750/SHG	2	0.9150	3rd & 4th
16	Goat farming			45750/SHG	2	0.9150	3rd & 4th
17	Vermi Compost			45750/SHG	1	0.4575	2nd & 5th
18	Miltch Cow			45750/SHG	3	1.3725	2nd & 5th
19	Handloom	Chotobashjani	No.	45750/SHG	2	0.9150	3rd & 4th
20	Goat farming			45750/SHG	2	0.9150	1st & 3rd
21	Vermi Compost			45750/SHG	2	0.9150	3rd & 4th
22	Miltch Cow			45750/SHG	1	0.4575	3rd & 4th
23	Handloom	Chagalchara Pt-II	No.	45750/SHG	2	0.9150	3rd & 4th
24	Goat farming			45750/SHG	3	1.3725	1st & 3rd
25	Vermi Compost			45750/SHG	1	0.4575	3rd & 4th
Total					71	32.4825	

Chapter 6

Capacity Building Plan

Table No. 6.1 Details of Capacity Building (Financial)

(Rs. in Lakh)

A) SHG/UG/PI related									
Sl. No.	Name of Training	No. of event	No. of Participants	Total No of days	Total trainee days	Cost per trainee days	Total cost required	Total Grant Amount	Year of Implementation
1	Awareness	8	250	1	2000	0.00120	2.40000		
2	SHG formation	8	50	1	400	0.00300	1.20000		
3	Regular meeting to be conducted with WC & planning	60	20	1	1 500	0.00300	4.50000	16.27600	1st, 2nd, 3rd, 4th & 5th
4	WC formation	4	300	1	1200	0.00100	1.20000		

5	Social audit events	16	25	1	400	0.00300	1.20000		
6	Self monitoring events (Planning, review of activities through tool)	24	25	1	800	0.00250	2.00000		
7	Orientation programme to PIA, WC, SHG, UG	9	35	1	341	0.00300	1.02300		
8	UG formation	8	42	1	336	0.00250	0.84000		
9	Exposure visits	6	25	1	155	0.01200	1.86000		
10	Rally/Road Drama	-	-	-	9	0.15	1.35000		
11	Wall Postering	-	-	-	840	0.00025	0.21000		
12	Pamphlets	-	-	-	1826	0.00010	0.18260		
Sub-Total		143	772	9	9259	0.182	17.9656		

B) NRM related

Sl. No.	Name of Training	No. of event	No. of Participants	Total No of days	Total trainee days	Cost per trainee days	Total cost required	Total Grant Amount	Year of Implementation
1	The module would be fixed on the basis of the activities taken under the projects in respective years	16	24	1	384	0.007	2.68800	2.68800	2nd, 3rd, 4th & 5th
Sub- Total		16	24	1	384	0.007	2.68800		

C) Production Enhancement related									
Sl. No.	Name of Training	No. of event	No. of Participants	Total No of days	Total trainee days	Cost per trainee days	Total cost required	Total Grant Amount	Year of Implementation
1	Specialized training on the based on the activities & requirement of the identified UGs & individuals to be benefitted under project	16	24	1	384	0.007	2.68800	2.68800	2nd, 3rd, 4th & 5th
Sub- Total		16	24	1	384	0.007	2.68800		
D) Livelihood related									
Sl. No.	Name of Training	No. of event	No. of Participants	Total No of days	Total trainee days	Cost per trainee days	Total cost required	Total Grant Amount	Year of Implementation
1	Specialized training on the basis of the activities & requirement of the identified SHGs	16	24	1	384	0.007	2.68800	2.68800	2nd, 3rd, 4th & 5th
Sub- Total		16	24	1	384	0.007	2.68800		
E) Convergence/Rights & entitlement/Welbeing related									
Sl. No.	Name of Training	No. of event	No. of Participants	Total No of days	Total trainee days	Cost per trainee days	Total cost required	Total Grant Amount	Year of Implementation
1	Convergence meeting with allied sectors	5	15	1	75	0.010	0.75000	0.75000	1st, 2nd & 3rd
Sub- Total		5	15	1	75	0.010	0.75000		
F) For PIA/WDT Staff level									
Sl. No.	Name of Training	No. of event	No. of Participants	Total No of days	Total trainee days	Cost per trainee days	Total cost required	Total Grant Amount	Year of Implementation
1	On institutional building	2	35	1	70	0.007	0.49000	2.45000	1st, 2nd, 3rd & 4th
2	On gender equity	2	35	1	70	0.007	0.49000		
3	On enterprise promotion	2	35	1	70	0.007	0.49000		
4	On Productivity Enhancement	2	35	1	70	0.007	0.49000		
5	On NRM Works	2	35	1	70	0.007	0.49000		
Sub- Total		10	175	5	350	0.035	2.45000		

G) Others									
Sl. No.	Name of Training	No. of event	No. of Participants	Total No of days	Total trainee days	Cost per trainee days	Total cost required	Total Grant Amount	Year of Implementation
1	TOT/CRP/CSP	-	-	-	-	-	-	3.48000	1st, 4th & 5th
2	Others_ Recruitment	1	-	-	-	-	0.20000		
3	District Level Workshop	4	35	1	140	0.01200	1.68000		
4	Training Outside	2	4	5	40	0.04000	1.60000		
Sub-Total		7	39	6	180	0.05200	3.48000		
Grand Total of CB							32.70960	32.70960	

COST OF CAPACITY BUILDING COMPONENT WISE BREAKUP IN PERCENTAGE (%)
(OUT OF 3% OF THE TOTAL FUND ALLOCATION)

	Particulars	1st yr	2nd yr	3rd yr	4th yr	5th Yr	Total
1	IEC						
1.1	Mass Meeting	1.60000	0.00000	0.00000	0.230000	0.230000	2.06000
1.2	Awareness Meeting	3.25480	1.00000	1.00000	0.000000	0.000000	5.25480
1.3	Publicity Materials	0.60000	0.40000	0.40000	0.000000	0.000000	1.40000
	sub-total	5.45480	1.40000	1.40000	0.230000	0.230000	8.71480
2	Institutional Building						
2.1	WC Formation & Registration, etc.	1.00000	0.00000	0.00000	0.000000	0.000000	1.00000
2.2	UG Formation	1.30000	0.10000	0.10000	0.040000	0.040000	1.58000
2.3	SHG Formation	1.50000	0.20000	0.20000	0.070000	0.070000	2.04000
	sub-total	3.80000	0.30000	0.30000	0.110000	0.110000	4.62000
3	Capacity Building						
3.1	Training (DWDU)	0.65000	0.60000	0.60000	0.000000	0.000000	1.85000
3.2	Training (PIA& WDT)	0.70000	0.40000	0.40000	0.430000	0.430000	2.36000
3.3	Training (WC)	0.80000	0.55000	0.55000	0.000000	0.000000	1.90000
3.4	Training (UG)	1.20000	0.30000	0.30000	0.200000	0.200000	2.20000
3.5	Training (SHG)	1.00000	0.50000	0.50000	0.580000	0.580000	3.16000
3.6	Exposure Visit (Farmers/WC Members)	0.70000	0.60160	0.60160	0.690000	0.690000	3.28320
3.7	Exposure Visit (Officers/PRI)	0.90000	0.60000	0.60000	0.300000	0.300000	2.70000
3.8	Participation in Exhibition	0.65000	0.00000	0.00000	0.000000	0.000000	0.65000
3.9	Seminer & Workshop	0.50000	0.20000	0.20000	0.185800	0.185800	1.27160
	sub-total	7.10000	3.75160	3.75160	2.385800	2.385800	19.37480
	Total	16.35480	5.45160	5.45160	2.725800	2.725800	32.70960

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.)	1 year		2 nd year		3 rd year		4 th year		5 th year		Total	
					Phy (No)	Fin (Lakh)	Phy (No)	Fin (Lakh)	Phy (No)	Fin (Lakh)	Phy (No)	Fin (Lakh)	Phy (No)	Fin (Lakh)	Phy (No)	Fin (Rs.)
1	Entry Point Activities (2%)															
	i.	Waiting Shad	No.	Rs. 210000/Unit	1 No.	2.10	---	---	---	---	---	---	---	---	1 No.	2.10
	ii.	School Boundary Development	No.	Rs. 3,05,000/Unit	1 No.	3.05	---	---	---	---	---	---	---	---	1 No.	3.05
	iii.	Solar light	No.	Rs. 35000/Unit	2 Nos.	0.70	---	---	---	---	---	---	---	---	2 Nos.	0.70
	iv.	Tara Hand Pump	No.	Rs. 50000/Unit	1 No.	0.50	---	---	---	---	---	---	---	---	1 No.	0.50
	v.	Waiting Shad	No.	Rs. 210000/Unit	1 No.	2.10	---	---	---	---	---	---	---	---	1 No.	2.10
	vi.	Solar light	No.	Rs. 35000/Unit	1 No.	0.35	---	---	---	---	---	---	---	---	1 No.	0.35
	vii.	Tara Hand Pump	No.	Rs. 50000/Unit	1 No.	0.50	---	---	---	---	---	---	---	---	1 No.	0.50
	viii.	Waiting Shad	No.	Rs. 210000/Unit	1 No.	2.10	---	---	---	---	---	---	---	---	1 No.	2.10

1	2	3	4	5	6		7		8		9		10		11	
Sl. No.	Component	Activities	Unit	Unit Cost (Rs.)	1 year		2 nd year		3 rd year		4 th year		5 th year		Total	
					Phy (No)	Fin (Lakh)	Phy (No)	Fin (Lakh)	Phy (No)	Fin (Lakh)	Phy (No)	Fin (Lakh)	Phy (No)	Fin (Lakh)	Phy (No)	Fin (Rs.)
	ix	Community Pond Renovation	Cum.	Rs. 190/Unit	1266.52 Cum.	2.10640	---	---	---	---	---	---	---	---	1266.52 Cum.	2.10640
	x	Waiting Shad	No.	Rs. 210000/Unit	1 No.	2.10	---	---	---	---	---	---	---	---	1 No.	2.10
	xi	Solar light	No.	Rs. 35000/Unit	1 No.	0.35	---	---	---	---	---	---	---	---	1 No.	0.35
	xii	Tara Hand Pump	No.	Rs. 50000/Unit	1 No.	0.50	---	---	---	---	---	---	---	---	1 No.	0.50
1	xiii	Waiting Shad	No	Rs. 210000/Unit	1 No.	2.10	---	---	---	---	---	---	---	---	1 No.	2.10
	xiv	Waiting Shad	No	Rs. 210000/Unit	1 No.	2.10	---	---	---	---	---	---	---	---	1 No.	2.10
	xv	Solar light	No	Rs. 35000/Unit	1 No.	0.35	---	---	---	---	---	---	---	---	1 No.	0.35
	xvi	Tara Hand Pump	No	Rs. 50000/Unit	1 No.	0.50	---	---	---	---	---	---	---	---	1 No.	0.50

1	2	3	4	5	6		7		8		9		10		11	
Sl. No.	Component	Activities	Unit	Unit Cost (Rs.)	1 year		2 nd year		3 rd year		4 th year		5 th year		Total	
					Phy (No)	Fin (Lakh)	Phy (No)	Fin (Lakh)	Phy (No)	Fin (Lakh)	Phy (No)	Fin (Lakh)	Phy (No)	Fin (Lakh)	Phy (No)	Fin (Rs.)
		Total for EPA				21.80640	---	---	---	---	---	---	---	---		21.80640

1	2	3	4	5	6		7		8		9		10		11	
Sl. No	Component	Activities	Unit	Unit Cost	1 year		2 nd year		3 rd year		4 th year		5 th year		Total	
				(In Lakhs)	Phy (No)	Fin (Lakh)	Phy (No)	Fin (Lakh)	Phy (No)	Fin (Lakh)	Phy (No)	Fin (Lakh)	Phy (No)	Fin (Lakh)	Phy (No)	Fin (Lakh)
2	Institution & Capacity Building (3%)															
	i)	Poor HHs in Watersheds to be covered under SHGs	No.	0.15	5	0.75000	1	0.15000	1	0.15000	1	0.15000	2	0.2908	8	1.4908
		SC	No.													
		ST	No.													
		BC	No.													
		OC	No.													
	ii)	Awareness Generation (events) to be conducted														
		Pamphlets distribution	No.	0.0001	1810	0.18100	-	-	-	-	-	-	-	-	1810	0.18100
		Wall posters	No.	0.00025	840	0.21000	-	-	-	-	-	-	-	-	840	0.21000
		Wall writings	No.				-	-	-	-	-	-	-	-	-	-
		Rallies	No.	0.150	10	1.50000	-	-	-	-	-	-	-	-	8	1.50000
		Kalajatha	No.				-	-	-	-	-	-	-	-	-	-
		Small Group meetings	No.	0.300	8	2.40000	-	-	-	-	-	-	-	-	-	2.40000

	Others (specify-----)	No.													
iii)	Orientation programmes to GP, WC, UG, SHG, VO, VSS, WUA, Societies, Elected reps.	No.	0.105	6	0.63000	4	0.42	-	-	-	-	-	-	9	1.05
iv)	Formation of UGs	No.	0.105	4	0.42	1	0.10500	2	0.21000	1	0.10000	1	0.10000	8	0.935
	No. of women	No.													
	No. of men	No.													

v)	Formation of LGs	No.													
	No. of women	No.													
	No. of men	No.													
vi)	Formation of Watershed Committee	No.	0.300	4	1.20000	-	-	-	-	-	-	-	-	4	1.20000
	No. of women	No.													
	No. of men	No.													
vii)	Regular Meetings to be conducted	No.	0.060	23	1.38000	15	0.90000	15	0.90000	2	0.12000	5	0.30000	60	3.60000
	Watershed Committee	No.													
	UGs/LGs	No.													
	VO/SHGs	No.													
	Gram Panchayat	No.													
viii)	No. of Planning events	No.													
ix)	Registration of WC	No.													
x)	Self Monitoring events (planning, review of activities through tool)	No.	0.062 23	10	0.62230	5	0.31150	9	0.56300	2	0.10300	2	0.09500	24	1.6948

	xi)	Convergence meetings with LDs/other institutions	No.	0.150	2	0.30000	2	0.28160	2	0.28160	2	0.2908	-	-	5	1.154
	xii)	WCDC level meeting														
	xiii)	Social Audit events	No.	0.075	8	0.60000	4	0.30000	6	0.45000	2	0.15000	-	-	16	1.50000
	Xiv)	Trainings & Exposures														
	a)	On Institutional Building	No. Trng	0.245	1	0.24500	1	0.24500	-	-	-	-	-	-	2	0.49000
		Women	No.													
		Men	No.													

	b)	On Gender	No. trng	0.245	-	-	1	0.24500	1	0.24500	-	-	-	-	2	0.49000
		Women	No.													
		Men	No.													
	c)	On Natural Resource Management	No. trng	0.168	8	1.47450	2	0.35950	4	0.67200	4	0.67200	-	-	18	3.17800
		Women	No.													
		Men	No.													
	d)	On Enterprise Promotion	No. trng	0.168	6	1.08500	5	0.91700	4	0.67200	3	0.50400	-	-	18	3.17800
		Women	No.													
		Men	No.													
	e)	On Productivity Enhancement	No. trng	0.168	5	0.91700	5	0.91700	6	1.00800	2	0.33600	-	-	18	3.17800
		Women	No.													
		Men	No.													
	f)	Exposure Visits	Nos	0.300	2	0.60000	1	0.30000	1	0.30000	1	0.30000	1	0.30000	6	1.80000
		Women	No.													

	Men	No.														
	g) Others															
	1) Others recruitment	No	0.200	1	0.20000	-	-	-	-	-	-	-	-	1	0.20000	
	2) Dist. Level Workshop	No	0.420	2	0.84000	-	-	-	-	-	-	2	0.84000	4	1.68000	
	3) Training Outside	No	0.800	1	0.80000	-	-	-	-	-	-	1	0.80000	2	1.60000	
Sub Total IB & CB {Do not sum Men & Women under CB events (a to f)}[1]					2756	16.3548	47	5.4516	51	5.4516	20	2.7258	14	2.7258	2871	32.7096

1	2	3	4	5	6		7		8		9		10		11	
S.No	Component	Activities	Unit	Unit Cost	1 year		2 nd year		3 rd year		4 th year		5 th year		Total	
				(Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)
3	Productivity Enhancement (15%)															
	I	Milch Cow	Nos.	43920/Unit	60	10.9032	90	32.7096	165	65.4192	132	46.3386	50	8.1774	497	163.548
	II	Semi intensive pisci culture														
	III	Goatery														
	IV	Tea Stall														
	V	Poultry (Commercial Broiler Unit)														
VI	Carpenter															
Sub-Total PE					60	10.9032	90	32.7096	165	65.4192	132	46.3386	50	8.1774	497	163.548
4	Livelihood for Asset less (15%)															
	I	Handloom	Nos.	45750/SHG	24	10.9032	60	27.258	143	65.4192	106	49.0644	24	10.9032	357	163.548
	II	Vermi Compost														
	III	Goat farming														
	IV	Milch Cow														
	V	Semi intensive pisciculture														
VI	Poultry (Commercial Broiler Unit)															

1	2	3	4	5	6		7		8		9		10		11		
S.No	Component	Activities	Unit	Unit Cost	1 year		2 nd year		3 rd year		4 th year		5 th year		Total		
				(Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	Phy (No)	Fin (Rs.)	
	VII	Duck farming															
Sub-Total LA						24	10.9032	60	27.258	143	65.4192	106	49.0644	24	10.9032	357	163.548
	Natural Resource Management (47%)																
5	I	Agri. field bund with RCC slab culvert	Rm.	238/RM	---	---	---	---	---	---	---	---	---	---	---	---	
	II	Earthen Drainage channel	Rm.	238/RM	---	---	---	---	---	---	---	---	---	---	---	---	
	III	Water Distribution Brick canal	Rm.	2500/RM	---	---	---	---	---	---	---	---	---	---	---	---	
	IV	Creation of Water Conservation Pond	Cum.	190/Cum.	---	---	---	---	---	---	---	---	---	---	---	---	
	V	Renovation of Pond	Cum.	190/Cum.	---	174.4512	---	174.4512	---	103.5804	---	32.7096	---	27.258	---	512.4504	
	VI	Raised Platform or high land for flood effected livestock with boulder guard wall	Rm.	2500/RM	---	---	---	---	---	---	---	---	---	---	---	---	
	VII	Afforestation Plantation	--	---	---	---	---	---	---	---	---	---	---	---	---	---	
	VIII	RCC Slab Culvert	Rm.	2500/RM	---	---	---	---	---	---	---	---	---	---	---	---	
	IX	Boulder revetment with pitching	--	---	---	---	---	---	---	---	---	---	---	---	---	---	
Sub Total NRM:						174.4512	174.4512	103.5804	32.7096	27.258	512.4504						

1	2	3	4	5	6		7		8		9		10		11		
Sl. No.	Component	Activities	Unit	Unit Cost	1 year		2 nd year		3 rd year		4 th year		5 th year		Total		
				(Lakh)	Phy (No)	Fin (Lakh)	Phy (No)	Fin (Lakh)	Phy (No)	Fin (Lakh)	Phy (No)	Fin (Lakh)	Phy (No)	Fin (Lakh)	Phy (No)	Fin (Lakh)	
6	Natural Resource Management & Governance (2%)																
	I	Maintenance of Natural Resources Related Assets															
	a	Meeting with the members of Gram Panchayat along with PRI members		No.	0.05	8	0.40	8	0.40	8	0.40	8	0.40	0	0	32	1.60
	b	Preparation of overall Dev. Plan		No.	0.05	4	0.20	4	0.20	4	0.20	4	0.20	0	0	16	0.80
	c	Meeting for Annual Audit under Budgeting with GP and PRI Members		No.	0.05		0.00	8	0.40		0.00	8	0.40	0	0	16	0.80
	II	Water Budgeting Management / Regulatory norms and Governance															
a	Ground Water Monitoring (twice a year)		No.	0.10	16	1.60	14	1.40	16	1.60	14	1.40	0	0	60	6.00	

1	2	3	4	5	6		7		8		9		10		11	
Sl. No.	Component	Activities	Unit	Unit Cost	1 year		2 nd year		3 rd year		4 th year		5 th year		Total	
				(Lakh)	Phy (No)	Fin (Lakh)	Phy (No)	Fin (Lakh)	Phy (No)	Fin (Lakh)	Phy (No)	Fin (Lakh)	Phy (No)	Fin (Lakh)	Phy (No)	Fin (Lakh)
b		Training for the Monitoring Exercises	No.	0.20	4	0.80	4	0.80	4	0.80	4	0.80	0	0	16	3.20
III		Protection and Regulation / Regeneration of common lands (for the protection of the upper reaches of the watershed slopes)														
a		Meeting with Departmental Officers & staff of Forest agriculture, Veterinary etc. for protection & regeneration /regulation is upper reaches of the watershed slop	No.	0.05	16	0.80	12	0.60	16	0.80	12	0.60	0	0	56	2.80
b		Formation of Users Group & Mobility	No.	0.02	53	1.05160	53	1.05160	53	1.05160	53	1.05160	0	0	212	4.2064
c		Formation of Voluntary organization & Mobility	No.	0.03	20	0.60	20	0.60	20	0.60	20	0.60	0	0	80	2.40
Total for NRM & Governance					121	5.4516	123	5.4516	121	5.4516	123	5.4516	0	0	488	21.8064

1	2	3	4	5	6		7		8		9		10		11	
Sl. No.	Component	Activities	Unit	Unit Cost	1 year		2 nd year		3 rd year		4 th year		5 th year		Total	
				(Lakh)	Phy (No)	Fin (Lakh)	Phy (No)	Fin (Lakh)	Phy (No)	Fin (Lakh)	Phy (No)	Fin (Lakh)	Phy (No)	Fin (Lakh)	Phy (No)	Fin (Lakh)
7		Administration (10%)														
a		WCDC Level	Rs.		0.45		0.45		0.45		0.45		0.45		2.25	
b		PIA / WDT Level														
		i)Honorarium/Specialist/wages temporary PIA staff	Rs.	0.15	3.00		3.00		3.00		3.00		3.00		15.00	
		ii)T.A/DA	Rs.		2.21		2.21		2.21		2.21		2.21		11.05	

1	2	3	4	5	6		7		8		9		10		11	
Sl. No.	Component	Activities	Unit	Unit Cost	1 year		2 nd year		3 rd year		4 th year		5 th year		Total	
				(Lakh)	Phy (No)	Fin (Lakh)	Phy (No)	Fin (Lakh)	Phy (No)	Fin (Lakh)	Phy (No)	Fin (Lakh)	Phy (No)	Fin (Lakh)	Phy (No)	Fin (Lakh)
		iii)Office Contingencies	Rs.			3.20		3.20		3.20		3.20		3.20		16.00
		iv) Pol	Rs.			7.00		7.00		7.00		7.00		7.00		35.00
	c	WC/Village level														
		i)Honorarium to village level workers	Rs.	0.10		1.50		1.50		1.50		1.50		1.50		7.50
		ii) Honorarium/Salary to Secretary	Rs.			1.44		1.44		1.44		1.44		1.44		7.20
		iii) Office Contingencies	Rs.			2.0064		2.0064		2.0064		2.0064		2.0064		10.032
		iv) T.A/DA	Rs.			1.00		1.00		1.00		1.00		1.00		5.00
		Total Administration				21.8064		21.8064		21.8064		21.8064		21.8064		109.032

1	2	3	4	5	6		7		8		9		10		11	
Sl. No.	Component	Activities	Unit	Unit Cost	1 year		2 nd year		3 rd year		4 th year		5 th year		Total	

			(Lakh)	Phy (No)	Fin (Lakh)	Phy (No)	Fin (Lakh)	Phy (No)	Fin (Lakh)	Phy (No)	Fin (Lakh)	Phy (No)	Fin (Lakh)	Phy (No)	Fin (Lakh)
8	Monitoring & Evaluation Cost (2%)														
	a	Monitoring	Rs.				2.7258		2.7258		2.7258		2.7258		10.9032
	b	Evaluation	Rs.				2.7258		2.7258		2.7258		2.7258		10.9032
	Total Monitoring & Evaluation Cost						5.4516		5.4516		5.4516		5.4516		21.8064
9	DPR 1%														
	a	DPR Preparation	Rs.			10.9032									10.9032
	Total for DPR					10.9032									10.9032
10	Consolidation 3%														
	a	Consolidation	Rs.												32.7096
Total for Consolidation														32.7096	32.7096
Grand Total for 1 to 10					272.58		272.58		272.58		163.548		109.032		1090.32

Table No. 7.2 Estimated Benefit Cost Ratio

Sl. No.	Name of the activity	Total Cost (Rs.)	Total Benefit expected * (Rs.)	BCR	Remarks
1	EPA	21,80,640.00	2398704.00	1.1	
2	NRM	5,12,45,040.00	74817758.40	1.46	
3	PE	1,63,54,800.00	27803160.00	1.7	
4	Livelihood for Asset less	1,63,54,800.00	27803160.00	1.8	
5	Institution and Capacity building	32,70,960.00	3925152.00	1.2	
6	Overall	8,94,06,240.00	133215297.60	1.49	

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

Chapter 8

Consolidation and completion of various works

Table No. 8.1: Consolidation of Action Plan

1	2		Implementation Phase								Consolidation/ exit Phase	
S. No.	Component	Total Amount	1 year		2 nd year		3 rd year		4 th year		5 th year	
			%	Fin (Lakh)	%	Fin (Lakh)	%	Fin (Lakh)	%	Fin (Lakh)	%	Fin (Lakh)
1	Entry Point Activities (2%)	21.8064	2%	21.8064	0%	0.00	0%	0.00	0%	0.00	0%	0.00
2	DPR Preparation by PIA(1%)	10.9032	1%	10.9032	0%	0.00	0%	0.00	0%	0.00	0%	0.00
3	Institution & Capacity Building (3%)	32.7096	1.5%	16.3548	0.5%	5.4516	0.5%	5.4516	0.25%	2.7258	0.25%	2.7258
4	Productivity Enhancement (15%)	163.548	1%	10.9032	3%	32.7096	6%	65.4192	4.25%	46.3386	0.75%	8.1774
5	Livelihoods for Asset less (15%)	163.548	1%	10.9032	2.5%	27.258	6%	65.4192	4.5%	49.0644	1%	10.9032
6	Natural Resource Management (47 %)	512.4504	16%	174.4512	16%	174.4512	9.5%	103.580 4	3%	32.7096	2.5%	27.258
7	Monitoring & Evaluation (2%)	21.8064	0%	0.00	0.5%	5.4516	0.5%	5.4516	0.5%	5.4516	0.5%	5.4516
8	Natural Resource Management & Governance (2%)	21.8064	0.5%	5.4516	0.5%	5.4516	0.5%	5.4516	0.5%	5.4516	0%	0.00
9	Consolidation phase (3%)	32.7096	0%	0.00	0%	0.00	0%	0.00	0%	0.00	3%	32.7096
10	Administration (10 %)	109.032	2%	21.8064	2%	21.8064	2%	21.8064	2%	21.8064	2%	21.8064
Total		1090.32	25%	272.58	25%	272.58	25%	272.58	15%	163.548	109	109.032

CHAPTER – 9

EXPECTED OUTCOMES

9.1 Describe in detail the “Expected Outcomes”

This project is a need based project which aims to increase the agricultural productivity, individual income, to generate self-employment and check the migration. Sustainable use of natural resources by using latest appropriate technology and strengthening the local leaders through capacity building and training, which ultimately ensure the sustainable livelihood of the people of the project area is also another important focus of the project.

In the present scenario the ground water level of open wells varies from 3 meter to 8 meter, from village to village. The groundwater has gone down and maximum ground water harvesting without any sustainable measure. Various activities are proposed which will help to increase the ground water potentiality of the area. It is expected that the post project ground water status will be 2 to 2.5 mt. Due to additional availability of water, farmers of the project area will be able to take more crops in their available land. Even after taking rainy season and post-rainy season crops into consideration, they will get a good price for vegetables in summer also. The productivity will also increase due to the use of updated techniques. The expansion of horticulture in the area will directly increase the income levels of all the household engaged in the horticulture activities. Total 312.53 ha of area are proposed under horticultural plantation and there will be significant increase in the area covered under horticulture.

Under livelihood and production system livestock rearing and various horticulture plantation works are proposed which will generate self-employment as well as check the migration problem of the project area.

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

1	2	3	4	5	6	
S. No.	Item	Unit of measurement	Pre-project Status	Expected Post-project Status	Remarks	
1	Status of water table (Depth to Ground water level)	Meters	3	2.5		
2	Ground water structures repaired/ rejuvenated	No.	40	20		
3	Quality of drinking water	Description	Iron	Usable for drinking purposed		
4	Availability of drinking water	Description	51512 Ltr.	69000 Ltr.		
5	Increase in irrigation potential	Hec.	-	1500		
6	Change in cropping/ land use pattern	Description	Single Crop	Double/Multiple Crop		
7	Area under agricultural crop	Hec.	4682.54	5296.54		
	I	Area under single crop	Hec.	4015	4113	
	Ii	Area under double crop	Hec.	667.54	734	
	iii	Area under multiple crop	Hec.	-	449.54	
8	Net increase in crop production area	Hec.	-	213.46		
9	Increase in area under Vegetation/Forest	Hec.	85	100		
10	Increase in area under horticulture	Hec.	110	140		

11	Increase in area under fuel	Hec.	40	70	
12	Increase in area under Fodder	Hec.	0	10	
13	Increase in milk production	Litres/day	1110	1800	
14	Environmental Impact Change in Soil Loss		8	5	
	Perenniality of flow and change in Run-off		--	--	
	Recharge of ground water	Mtr.	5.5	5.0	
14	No. of SHGs Promoted	No.	163	357	
15	Increase in no. of livelihoods	No.	0	340	
16	Increase in income	Rs.	0.60	1.00	
17	Status of Migration	No.	2000	1200	
18	SHG Federations formed	No.	0	0	
19	Credit linkage with banks	Rs.	35.00	80.00	
20	Resource use agreements	-	0	0	
21	WDF collection & management	Rs.	0	83.95464 Lakh	
22	Summary of lessons learnt	Poor	Markable		

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	7	10 Nos.
(ii) Seed supply system	Co-operative and Agriculture Dept.	3	Direct procure from certified /registered agency by State Govt.
(iii) Fertilizer supply system	Co-operative and local fertilizer dealer	3	Buying from Certified fertilizer supply agency in state govt.
(iv) Pesticide supply system	Local Pesticide Dealer	3	Buying from pesticide supply agency in state govt.
(v) Credit institutions	Co-operative Bank, SHG, Local Bank, Nodal Bank etc.	Nil	Expected to more bank linkage with SHGs.
(vi) Water supply	Water User Group	5	13 Nos.
(vii) Extension services	KVK, ATMA, Agriculture Dept., NGOs	Nil	Expected to more extension services in village level also
(viii) Nurseries	SHG, Horticulture Nursery, Local Nursery	3	7 Nos.
(ix) Tools/machinery suppliers	Ag Deptt	Nil	Expected to access easily & quickly
(x) Price Support system	Ag Deptt, Vetty Dept.	1	Will Continued
(xi) Labour	Local wage labour	552	Strong network will be developed
(B) Forward linkages			
(i) Harvesting/threshing machinery	Local level	Nil	Expected to be used
(ii) Storage (including cold storage)	Local level	4 nos.	Strong network will be developed
(iii) Road network	Local level	Nil	Expected to be sufficient
(iv) Transport facilities	Local level	Nil	Expected to be sufficient
(v) Markets / Mandis	Local committee, Cooperative	5	Expected to be more
(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 beneficiaries will get better opportunities.

List of Maps to be enclosed along with DPR.

- 1 .Location –District, mandal, village, watershed location map
- 2 Watershed Map for IWMP Project (Watershed Boundary demarcation in cadastral & Topo Sheet)
- 3 Social Map (along with photos & paper drawing)-with Existing Structure
- 4 Resource Map (along with photos & paper drawing)and Land Type
 - 5 Drainage Map (with numbering)
 - 6 Map showing existing structures
 - a. Proposed action plan map
 - b. Land use/Land cover map
 - c. Slope map
 - d. Soil and land capability class maps
 - e. GIS maps

B,c,d will be from the PRA maps done in the village

should include Latitude and Longitude and the plot no.

will be provided by JSACS

P R A EXCERSISE PHOTOGRAPHS



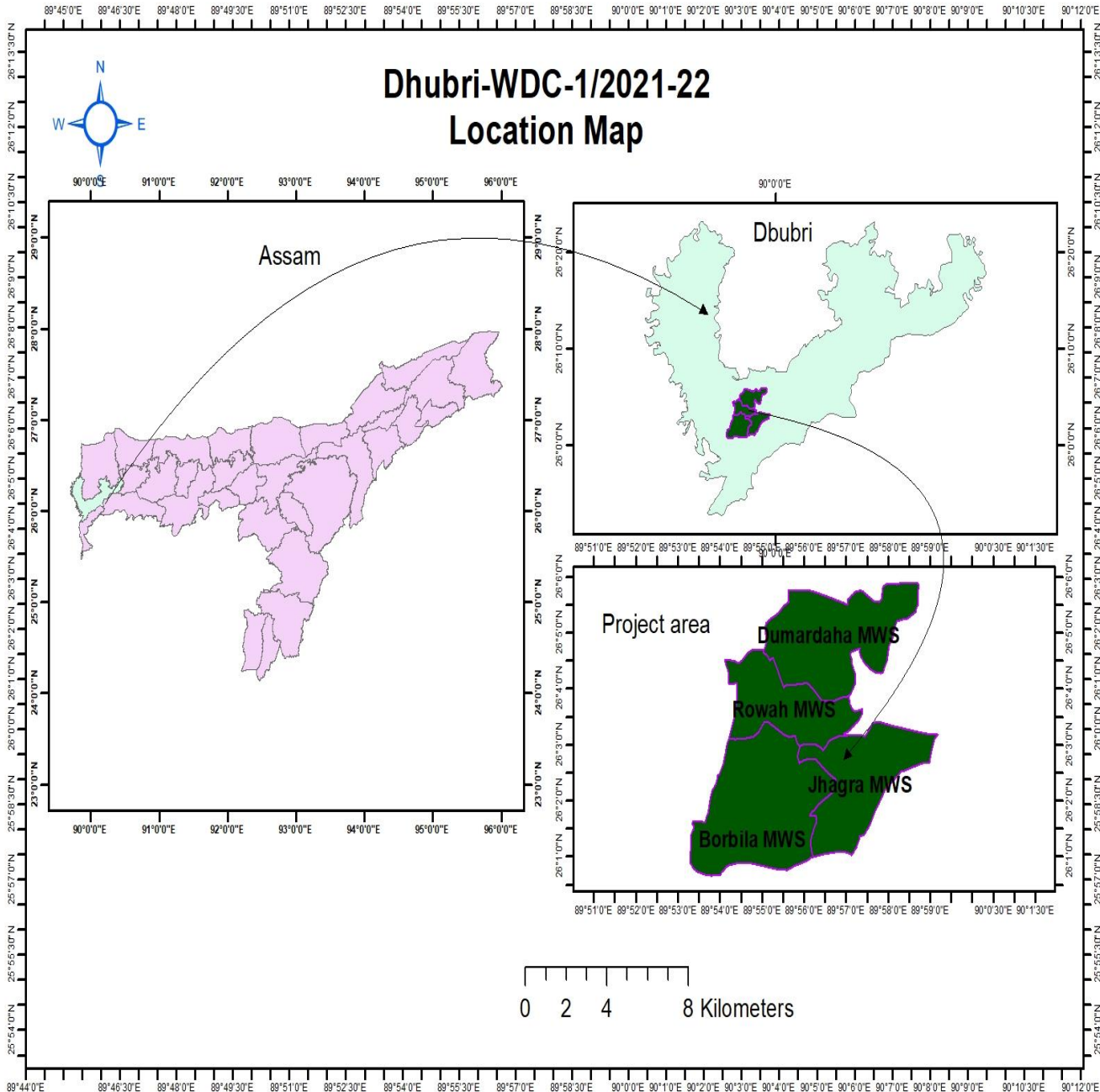
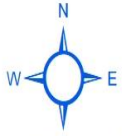




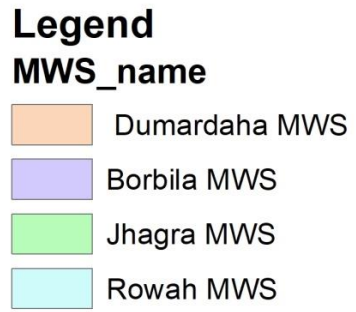
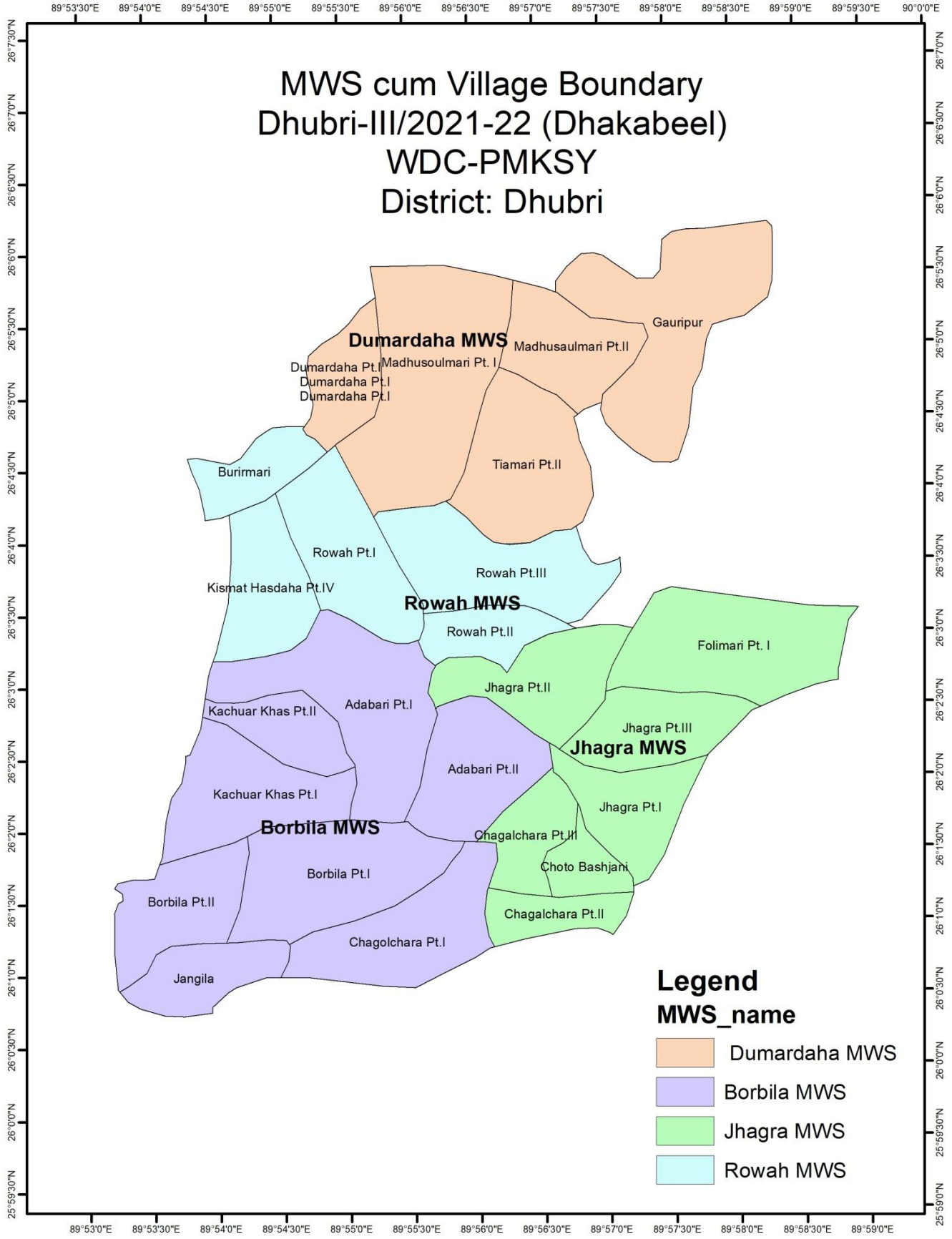




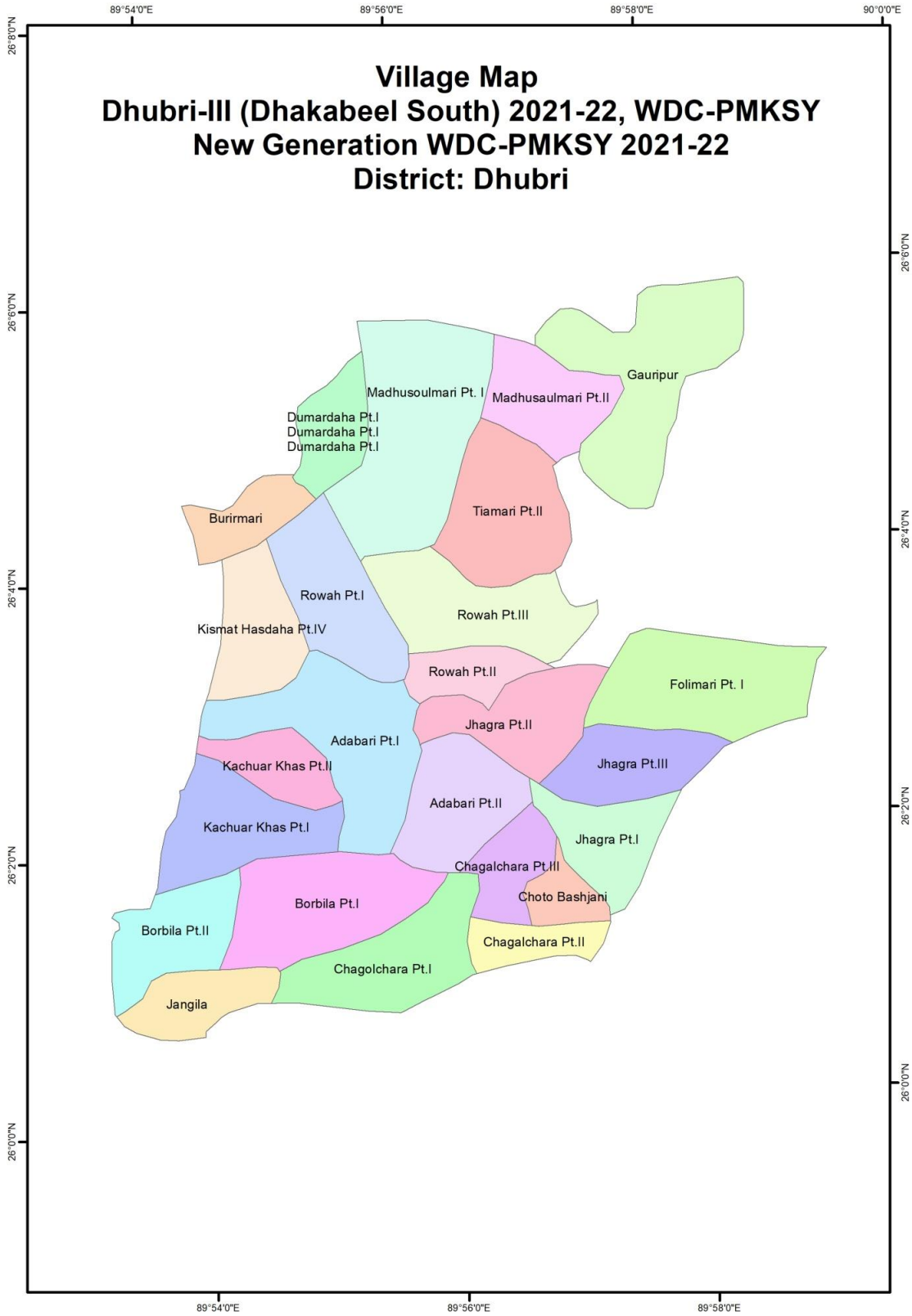
Dhubri-WDC-1/2021-22 Location Map



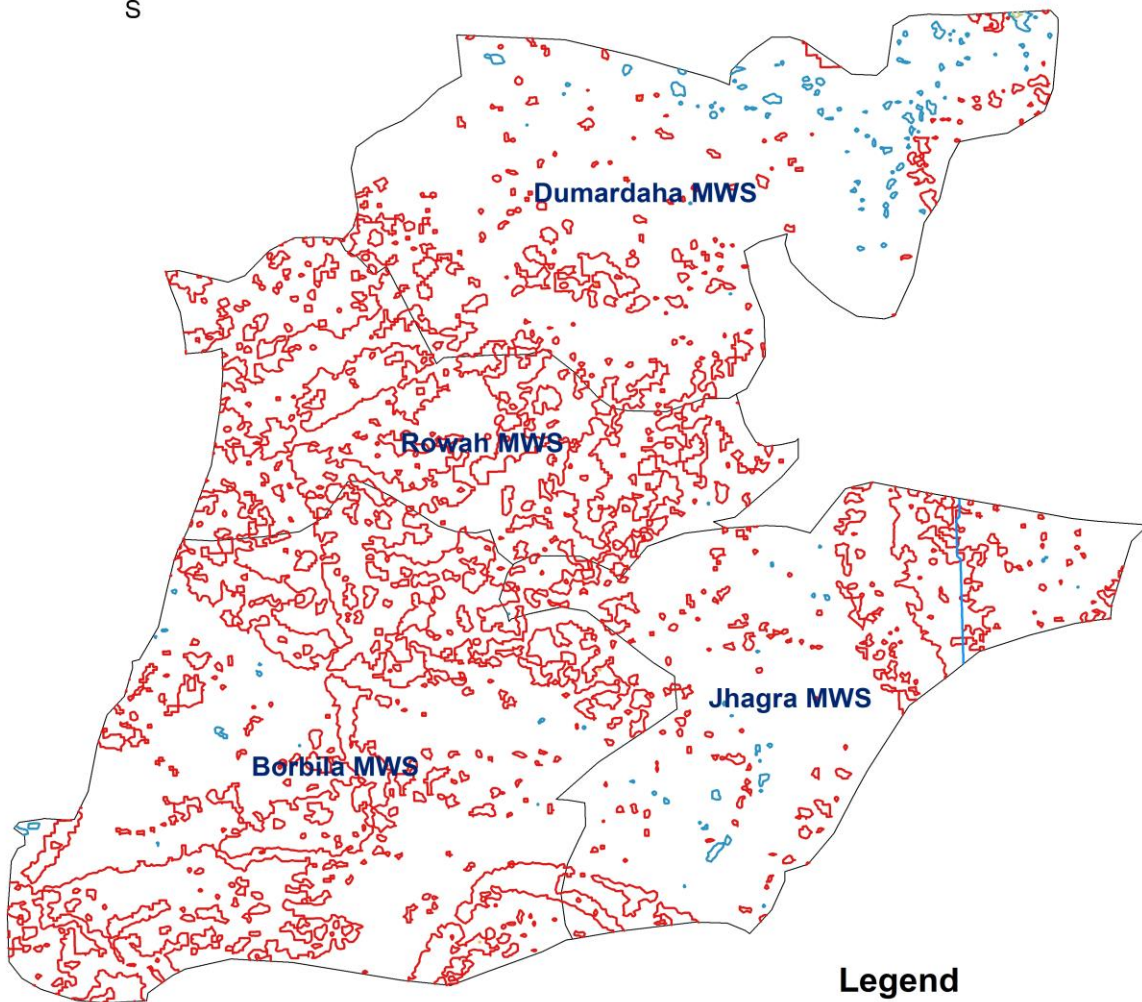
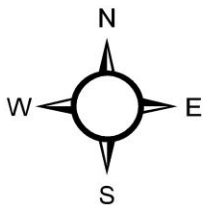
MWS cum Village Boundary
 Dhubri-III/2021-22 (Dhakabeel)
 WDC-PMKSY
 District: Dhubri



Village Map
Dhubri-III (Dhakabeel South) 2021-22, WDC-PMKSY
New Generation WDC-PMKSY 2021-22
District: Dhubri



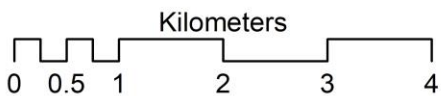
Dhubri WDC-1/2021-22 Slope Map



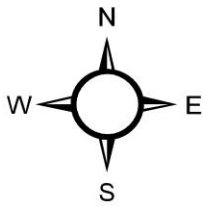
Legend

Contour

- 20-30
- 10-20
- 0-10
- 0



Dhubri WDC-1/2021-22 Drainage Map



Dumardaha MWS

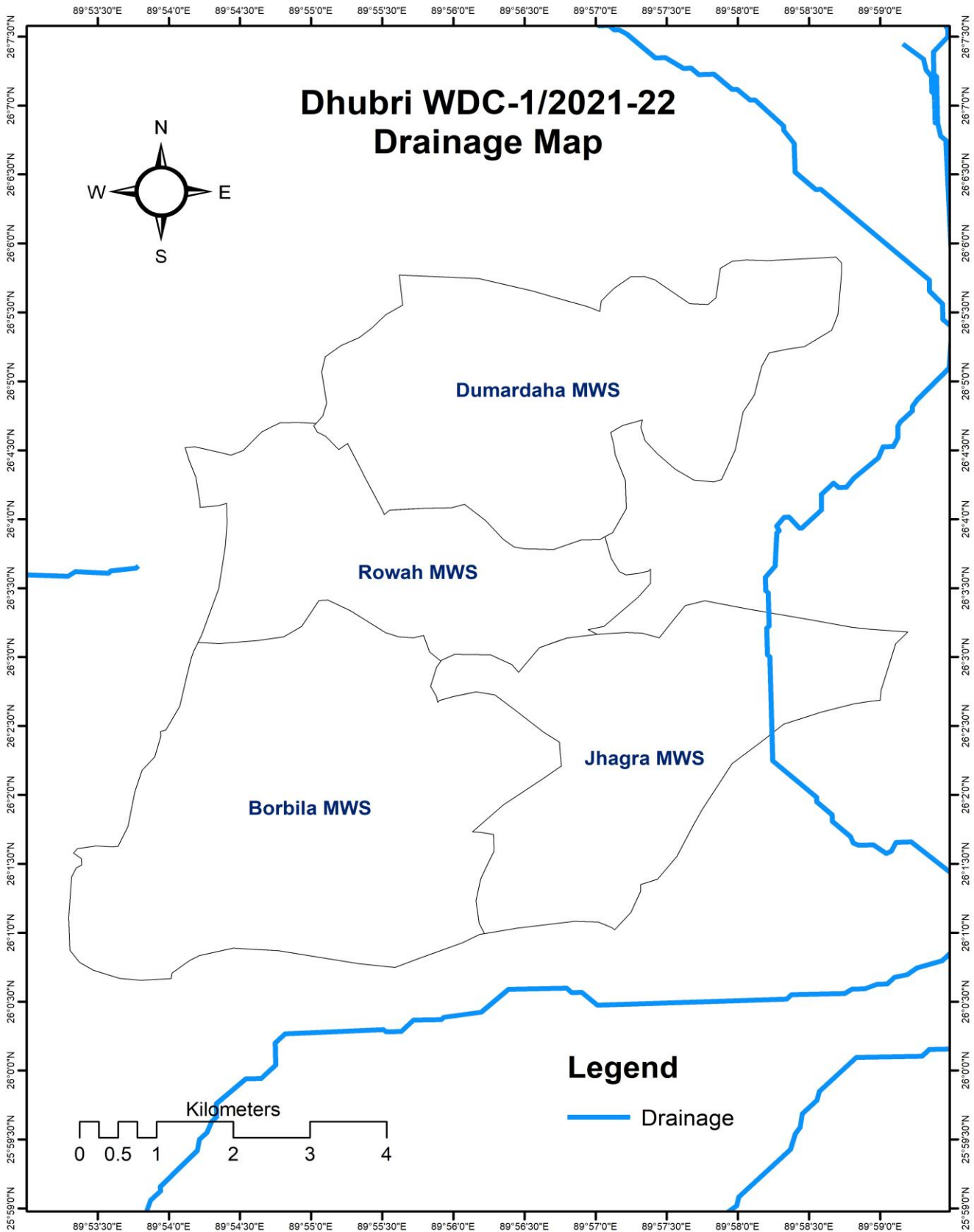
Rowah MWS

Borbila MWS

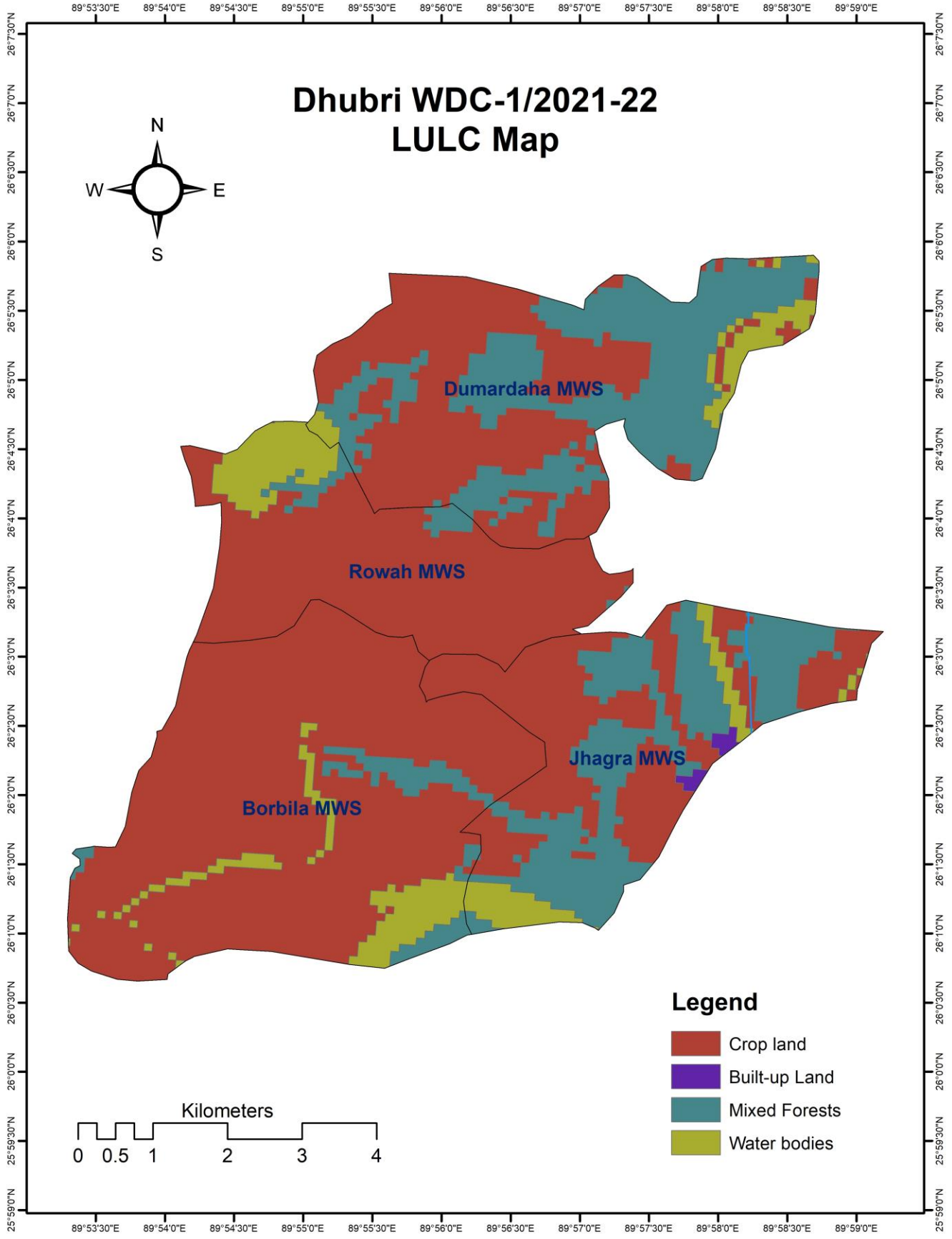
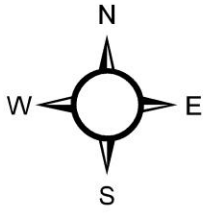
Jhagra MWS

Legend

— Drainage

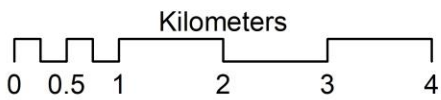


Dhubri WDC-1/2021-22 LULC Map

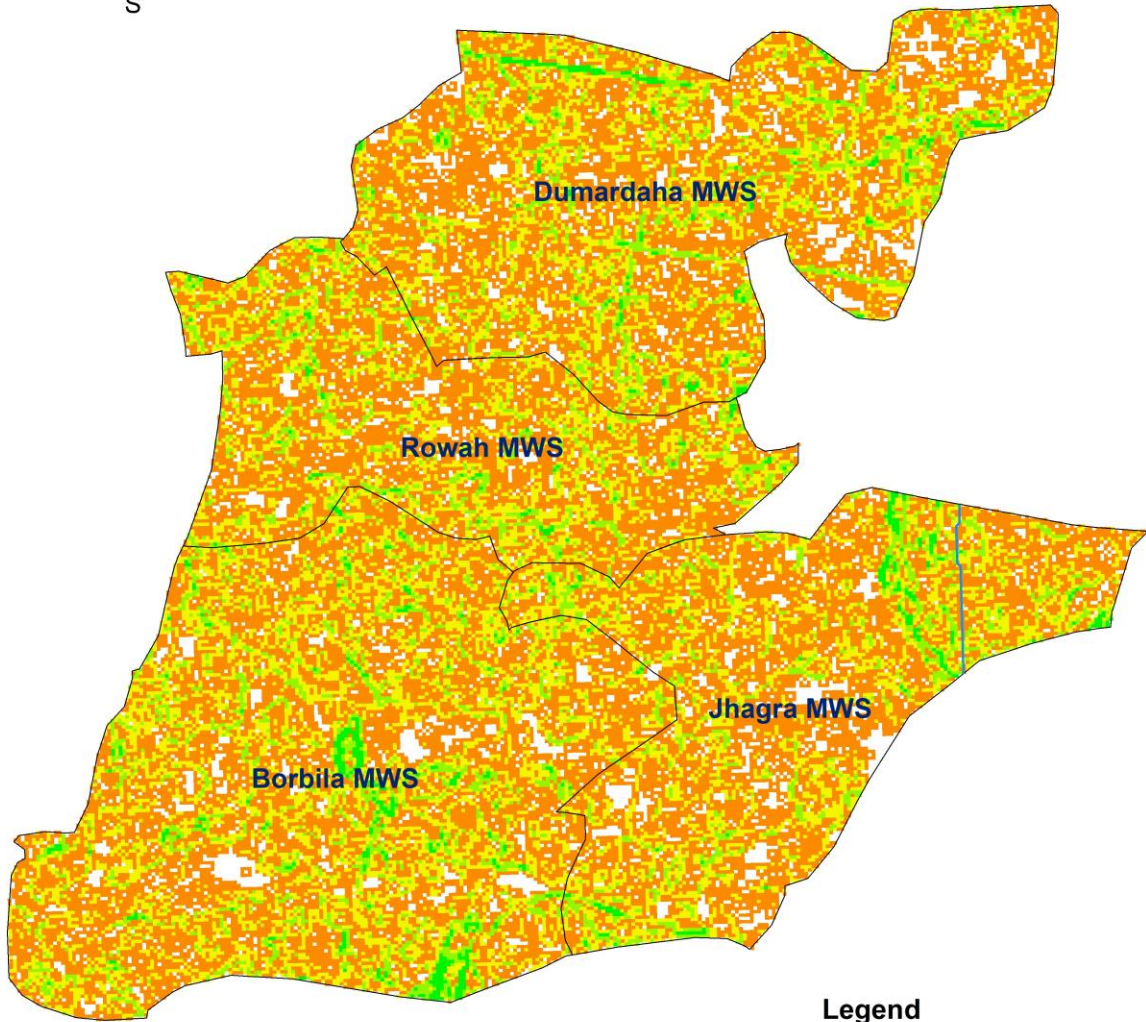
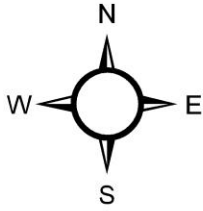


Legend

- Crop land
- Built-up Land
- Mixed Forests
- Water bodies



Dhubri WDC-1/2021-22 Slope Map

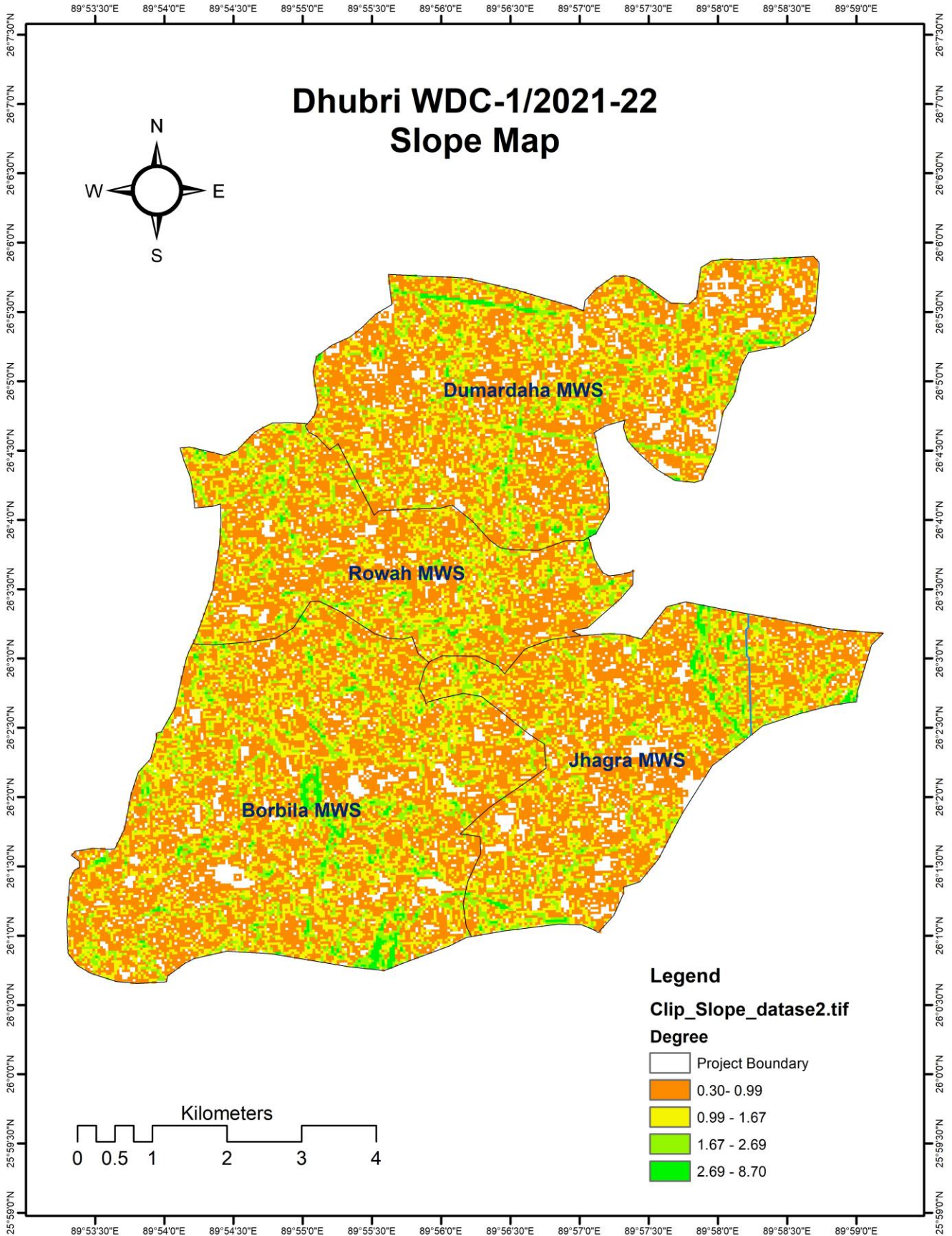
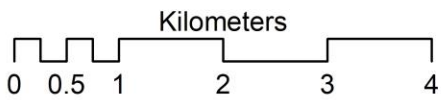


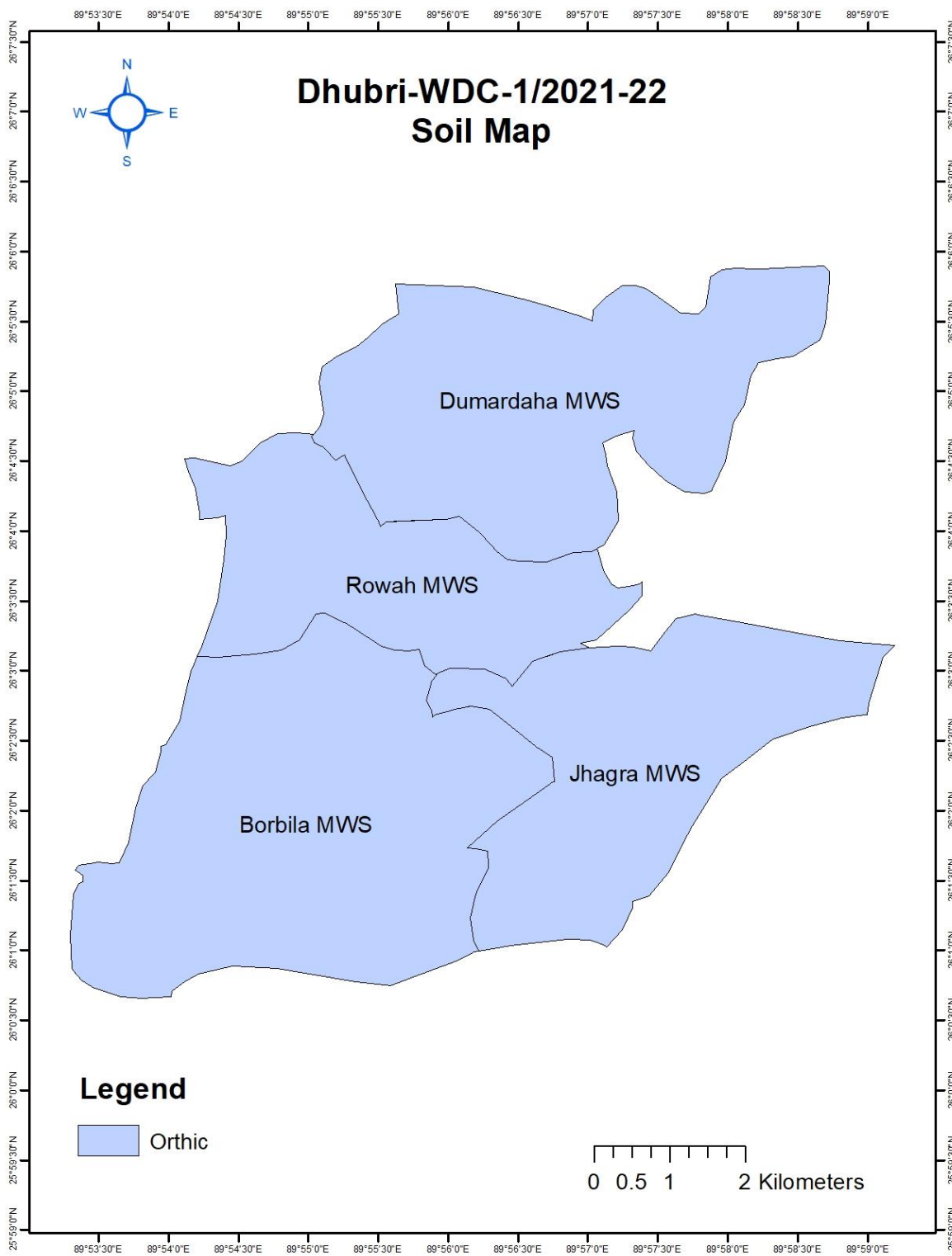
Legend

Clip_Slope_datase2.tif

Degree

- Project Boundary
- 0.30 - 0.99
- 0.99 - 1.67
- 1.67 - 2.69
- 2.69 - 8.70





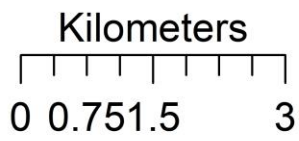


Dhubri WDC-1/2021-22 Accumulation Map

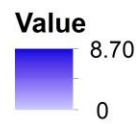


26°13'0"N

26°13'0"N



Legend



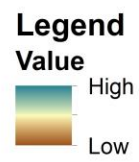
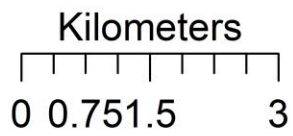


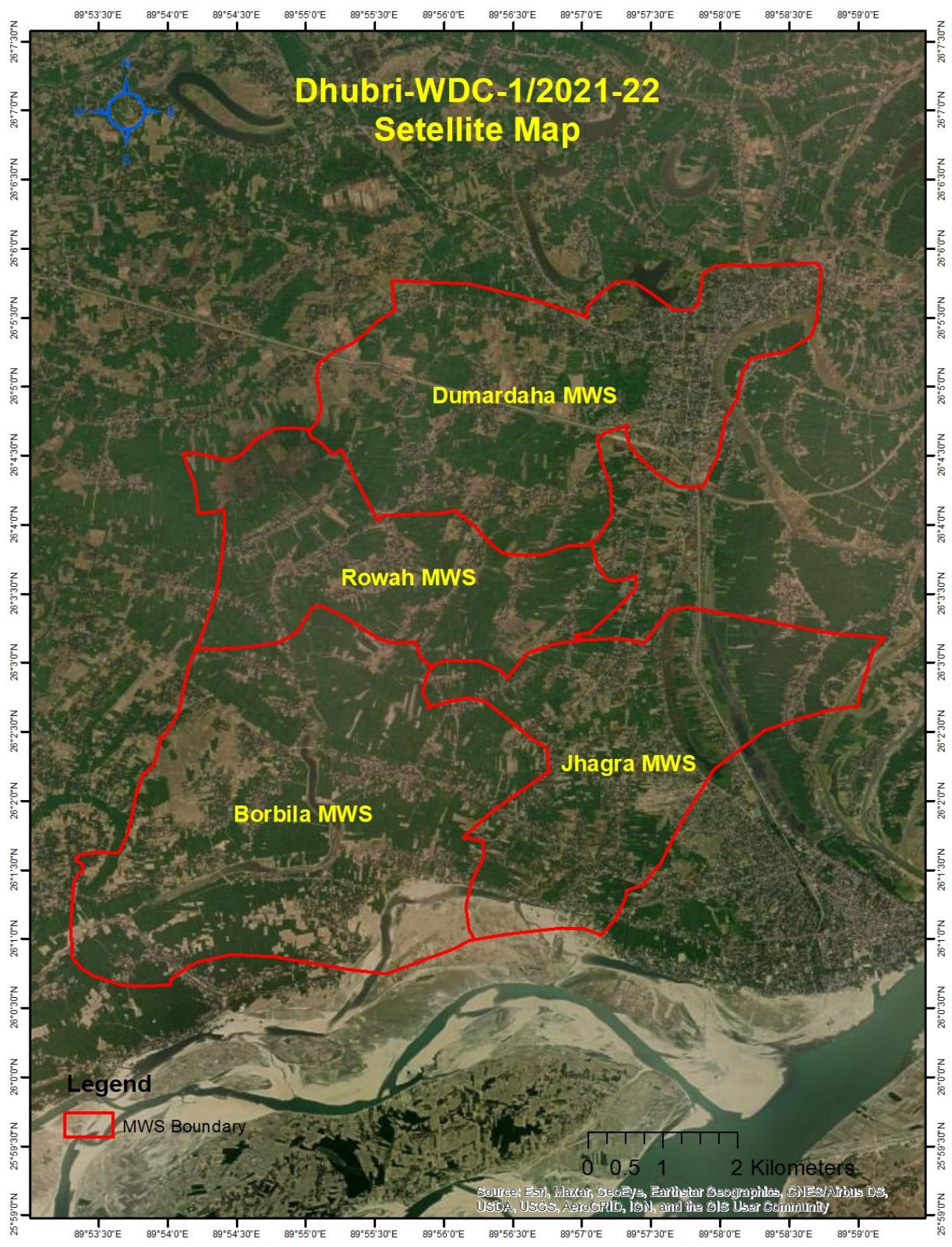
Dhubri WDC-1/2021-22 Flow Direction Map



26°13'0"N

26°13'0"N





Dhubri-WDC-1/2021-22 Setellite Map


Dumardaha MWS

Rowah MWS

Jhagra MWS

Borbila MWS

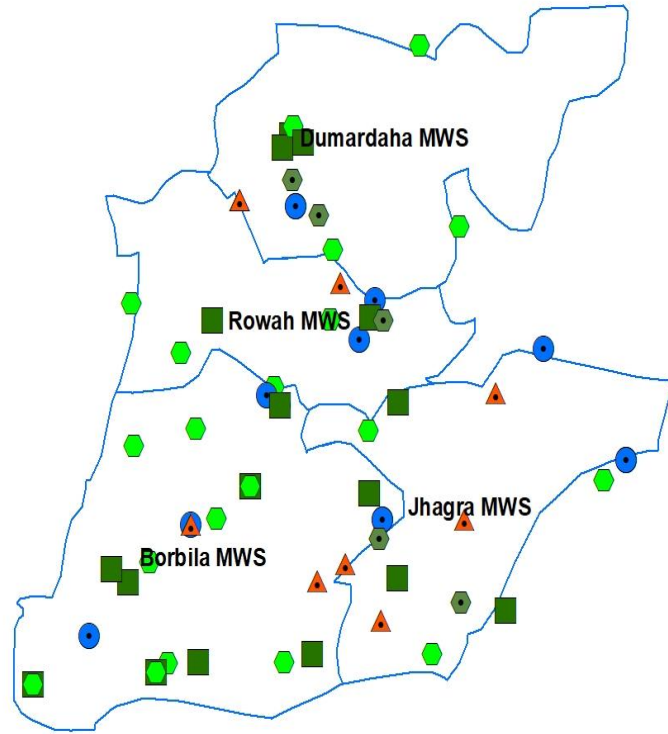
Legend

 MWS Boundary

0 0.5 1 2 Kilometers

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

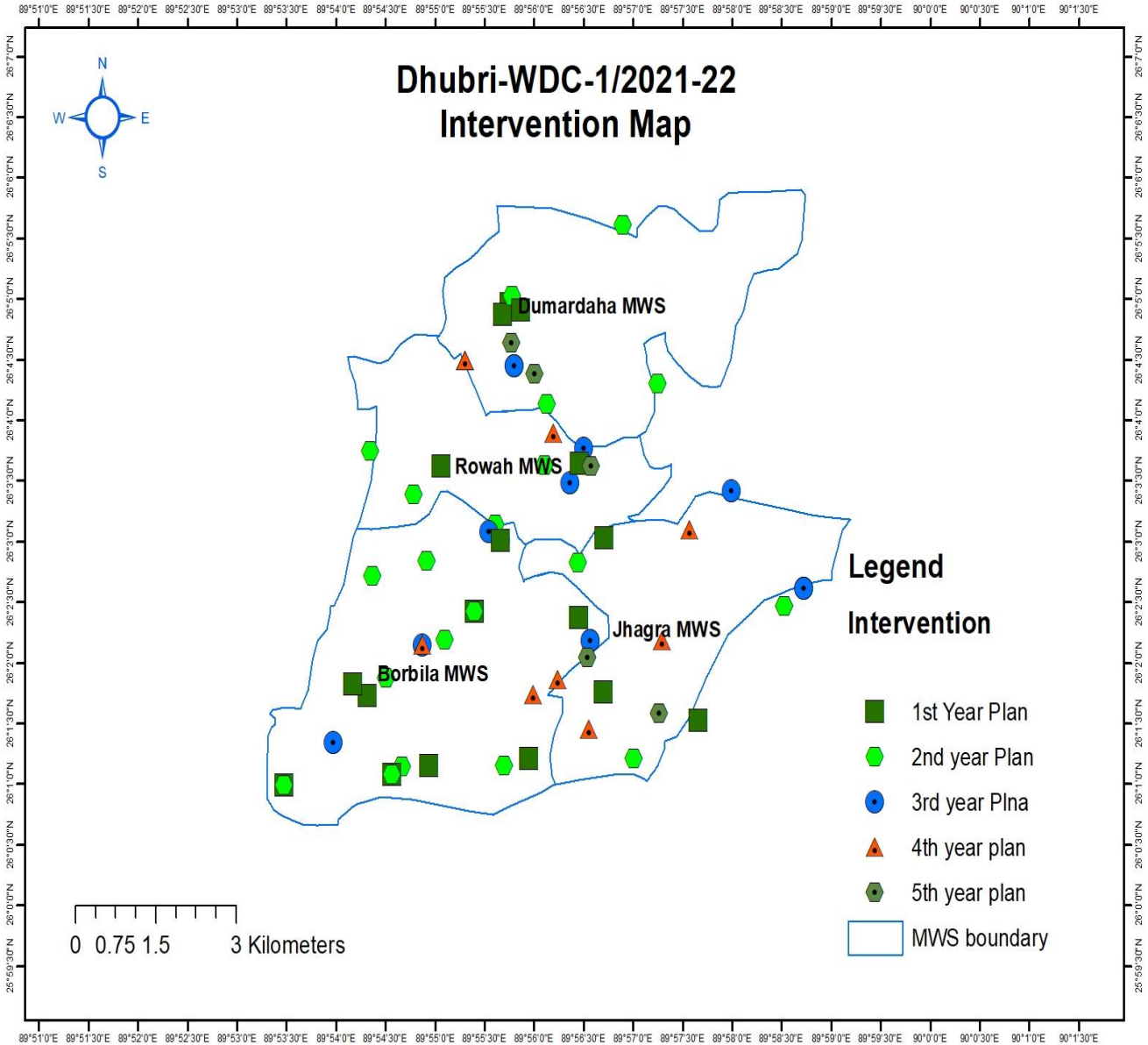
Dhubri-WDC-1/2021-22 Intervention Map

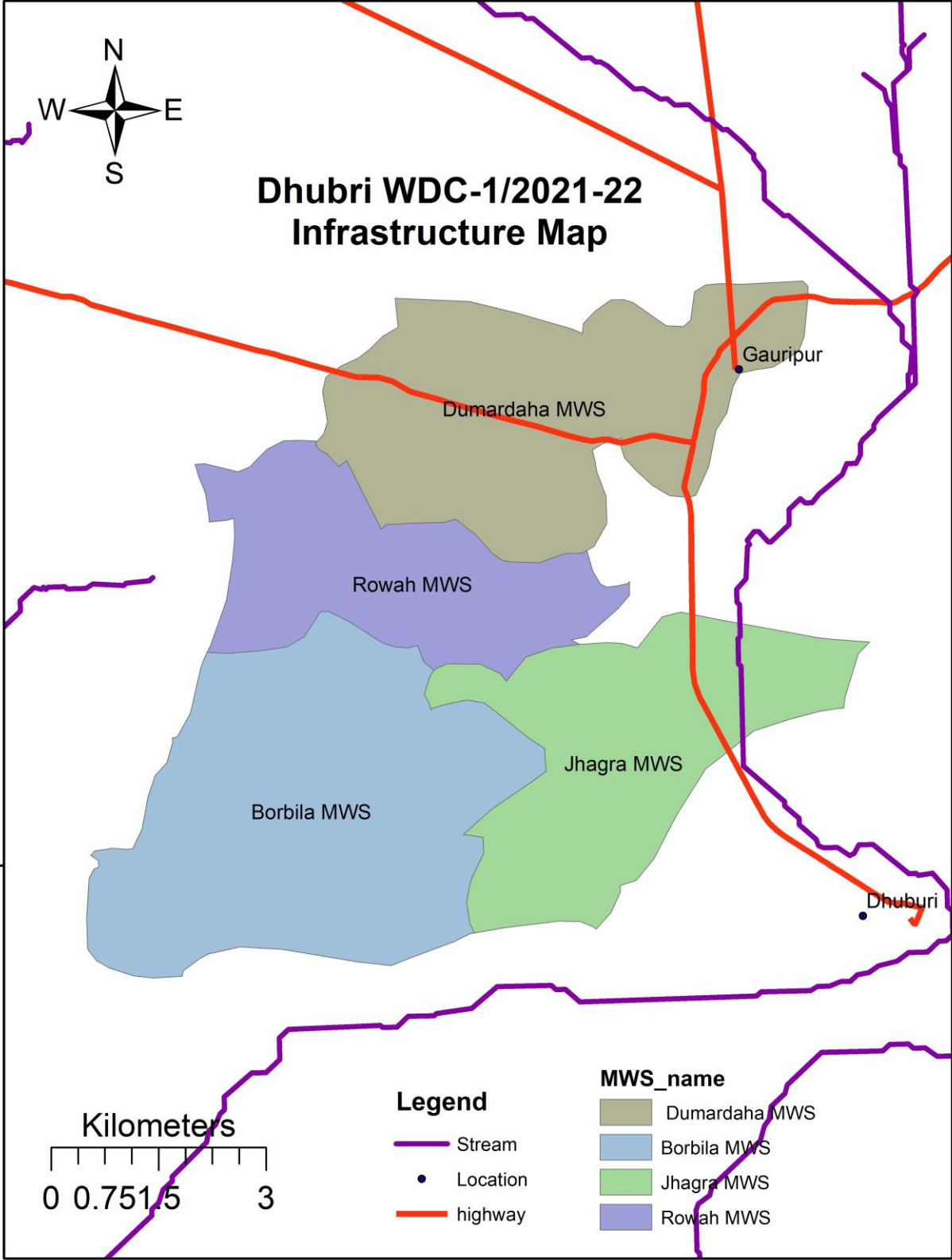


Legend Intervention

-  1st Year Plan
-  2nd year Plan
-  3rd year Plan
-  4th year plan
-  5th year plan
-  MWS boundary

0 0.75 1.5 3 Kilometers





WATERSHED COMMITTEE FORMATION PHOTOGRAPHS

BORBILA MWS



DUMARDAHA MWS



JHAGRA MWS



ROWA MWS

