

**Format for reporting annual activities of the year 2023-2024 (For Field Offices)
Regional Office, Bhola**

1. Progress of Nirdeshika Updating

District	Field survey		Map finalization		Draft report preparation		Final report preparation	
	Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement
Bhola	Tozummuddin	Completed	Daulatkhan	In process	Daulatkhan	Completed	Daulatkhan	In process
							Borhanuddin	Completed
Barishal					Barishal Sadar	In process		
Patuakhali	Dashmina	Completed			Bauphal	In process		

2. Information on Upazila Surveyed during 2023-2024

2.1(a) Name of Upazila & District:

Upazilla: Tazumuddin

District: Bhola

2.1(b). Major findings

i) Total area- 34,828 ha

ii) Total sample collected- 65

iii) Physiography & AEZ code- Ganges Tidal Floodplain (13) and Young Meghna Estuarine Floodplain (18)

iv) Major land type- Medium Highland

v) Major soil group- Bhola, Jhalakati, Ramgati, Nilkamal, Polimati

2.1(c).1 Changes in Land Type (for floodplain, piedmont and terrace area)

Land type	Previous (2001)		Present (2024)		% increase/decrease	Possible reasons
	Area (ha)	%	Area (ha)	%		
Highland	311	1.0	1215	3.5	+2.5	Cultivable land (MHL) converted into homestead garden, orchard
Medium Highland	9,844	28.2	9,823	28.2	+0	
Medium Lowland	341	1.0	828	2.4	+1.4	Due to siltation River area converted into new charland
Miscellaneous	24,332	69.8	22,962	65.9	-3.9	Due to siltation River area converted into new cultivable land
Total	34,828	100.0	34,828	100.0	-	

2.1(c).2 Change in Land Type (for mixed landform i.e., hill, piedmont and floodplain area) --- NA

2.1(d) Changes in Land Use

Land Use	Land type	Previous (2001)		Present (2024)		% increase/decrease	Possible reasons
		Area (ha)	%	Area (ha)	%		
1. RV-KV	HL/MHL			212	0.6	+0.6	Improved land use & higher return
2. RC- D.Aus- TA	MHL	3,921	11.3	713	2.0	-9.3	Aus production has declined due to cost of production, uneven seasonal rain and harvesting in monsoon
3. RC- B.Aus- TA	MHL	813	2.3			-2.3	
4. RC- T.Aus- TA	MHL	1,630	4.7	279	0.8	-3.9	
*5. RC-F- TA	MHL	3,130	9.0	6,488	18.6	+9.6	Improved land use & higher return
6. B-F-TA	MHL	277	0.8	1,377	4.0	+3.2	Increased irrigation facility
7. F-F-TA	MHL	73	0.2	414	1.2	+1.0	land use changed
8. RC-F- F	MHL	341	1.0			-1.0	
9. Watermelon-F-TA	MHL			294	0.8	+0.8	Improved land use & higher return
10. Grass-F-TA	MHL			94	0.3	+0.3	
11. RC-F- Broadcast deep water aman	MLL			828	2.4	+2.4	
12. Others	HL/MHL		0.9	1,168	3.4	+2.5	Land use converted
Miscellaneous	-		69.8	22,962	65.9	-3.9	Erosion
Total	-	34,828	100.0	34,828	100.0		

* RC(Mustard-55%, Groundnut-20%, Potato-5%, Chilli-5%, Mungbean/Cowpea-10%, Others-5%)

2.2(a) Name of Upazila & District:

Upazilla: Dashmina

District: Patuakhali

2.2(b). Major findings

i) Total area- 30,287 ha

ii) Total sample collected- 99

iii) Physiography & AEZ code- Ganges Tidal Floodplain (13) and Young Meghna Estuarine Floodplain (18)

iv) Major land type- Medium Highland

v) Major soil group- Bhola, Jhalakati, Barishal, Ramgati, Nilkamal, Polimati

2.2(c).1 Changes in Land Type (for floodplain, piedmont and terrace area)

Land type	Previous (2014)		Present (2024)		% increase/decrease	Possible reasons
	Area (ha)	%	Area (ha)	%		
Highland	235	0.8	348	1.0	+0.2	Cultivable land (MHL) converted into homestead area
Medium Highland	14,303	47.2	14,353	47.4	+0.2	
Medium Lowland	852	2.8	810	2.7	-0.1	MLL are converted to MHL due to change in flooding depth
Miscellaneous	14,897	49.2	14,776	48.8	-0.4	
Total	30,287	100.0	30,287	100.0	-	

2.2(c).2 Change in Land Type (for mixed landform i.e., hill, piedmont and floodplain area) --- NA

2.2(d) Changes in Land Use

Land Use	Land type	Previous (2014)		Present (2024)		% increase/decrease	Possible reasons
		Area (ha)	%	Area (ha)	%		
1. RC- T.Aus- TA	MHL	5,361	17.7	590	1.9	-15.8	Aus production has declined due to cost of production, uneven seasonal rain and harvesting in monsoon
2. F- T.Aus- TA	MHL	2,141	7.1			-7.1	
3. RC(Chilli/Gnut/Potato/Grasspea/til/lentil)- T.Aus - TA	MHL	216	0.7			-0.7	
4. RC(Mung/Cowpea)- F- TA	MHL	4,157	13.7	6,148	20.3	+6.6	Improved land use & higher return
5. RC(Chilli/Gnut/Potato/Grasspea/til/lentil)- F- TA	MHL	3,072	10.1	3,409	11.3	+1.2	
6. Watermelon-F-TA	MHL	247	0.9	408	1.3	+0.4	Increased irrigation
7. B-F-TA	MHL			2,476	8.2	+8.2	
8. B-F- F	MHL			324	1.1	+1.1	

							facility
9. F-F-TA deep water	MHL			324	1.1	+1.1	Land use changed
10. Watermelon-F-F	MHL			162	0.5	+0.5	
11. Others	HL/MH L	196	0.6	1,670	5.5	+4.9	
Miscellaneous	-	14,897	49.2	14,776	48.8	-0.4	Erosion
Total		34,828	100.0	34,828	100.0		

* RC(Mungbean/ Cowpea-55, Chilli-15, Groundnut-10, Grasspea-10, Mustard-5, Potato-5, Others-5)

3. Union Sahayika Preparation

Name of Office	District	Upazila	No. of shahayika prepared
Bhola RO	Bhola	Borhanuddin	5
Total			5

4. Mobile Soil Testing Services (MSTL)

Name of Office	Name of Upazila, District & sample no.						Remarks
	Rabi			Kharif			
	District	Upazila	No. of sample	District	Upazila	No. of sample	
Bhola RO	Bhola	Daulatkhan	50	Bhola	Tazumuddin	50	

5. Yield Data of STB Field Trial

Name of Office	Upazila	District	Crop (s) & variety (s)	Average yield (t/ha)		Yield increase (%)
				Farmers' field	Demonstration plot	
Bhola RO	Bhola Sadar	Bhola	BARI Sharisha 14	1.4	1.7	21
	Daulatkhan		BARI Soybean 5	2.1	2.4	14

6. Distribution of Fertilizer Recommendation Card

Name of Office	District	Upazila	Type of service		Total no. of card distributed	Remarks
			Nirdeshika based recommendation	Online based recommendation		
Bhola RO	Bhola	Daulatkhan	45	-	45	
		Charfassion	100	100	200	
		Tozumuddin	55	-	55	
Total					300	

7. Training Programme

7(a) Training Received

Name of Office	Title of the programme	Duration	Host organization	Participant	
				Designation	Number
Bhola RO					

7(b) Training Imparted

Name of Office	Title of the programme	Duration	Host organization	Participant	
				Type	Number
Bhola	Soil sample collection technique, identification of	1 day	SRDI, Bhola	Farmer	250

	adulterate fertilizers, methods & time of fertilizer application, deficiency symptoms of nutrient element and use of balanced fertilizer.				
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8. Advisory Services to Beneficiaries

Name of Office	District	Upazila	Agency	Service Provided
Bhola RO	Bhola	All Upazilla	DAE	Provided information on soil and water salinity of Bhola District.
	Bhola	Daulatkhan	Farmers group	Identify Soil Salinity related problems give suggestion for salinity management.
	Bhola	Bhola Sadar and Daulatkhan	BARI, Bhola	Provided Upazilla Land and soil related information.
	Bhola	Bhola Sadar Upazilla	Govt Bhola College	Soil profile description and soil texture and soil series identification
				Provided Land use and soil series related information.

9. Distribution of saplings and/seedlings (if any)

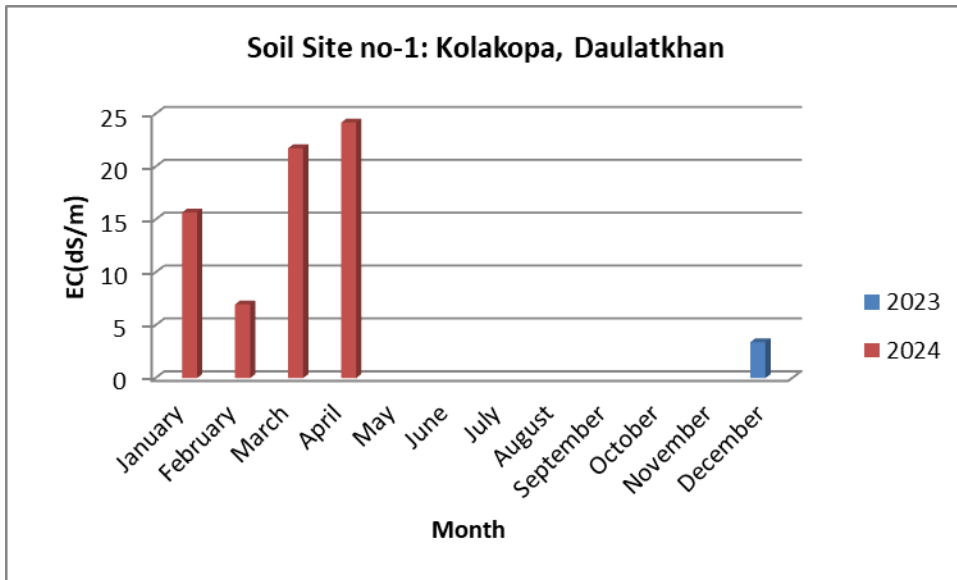
Name of Office	District	Upazila	Number		Total	Remarks
			Fruits	Vegetables		
Regional Office, Bhola	Bhola	-	-	-	-	

10. Soil and Water Salinity (where applicable)

10 (a). Soil salinity (With Graph)

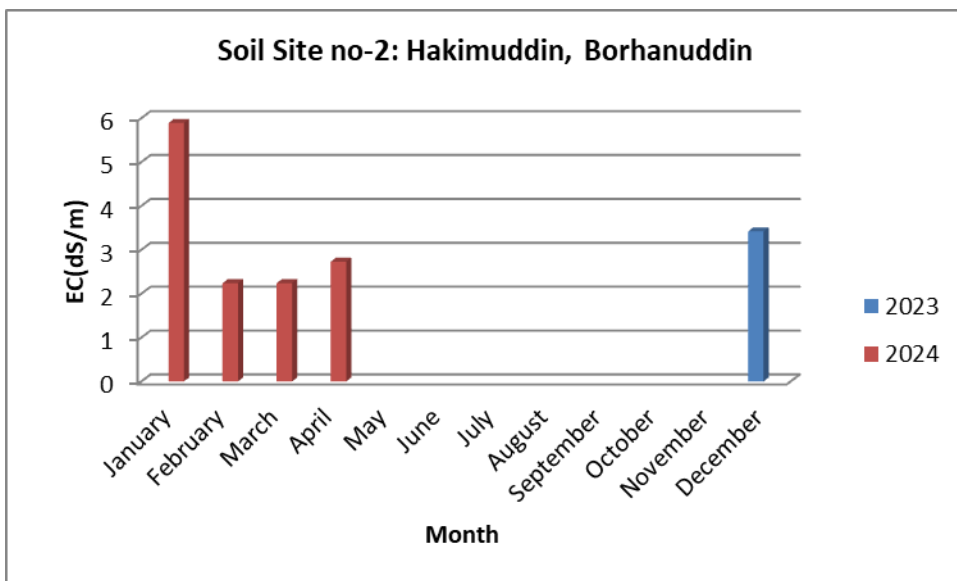
Soil Site no-1: Kolakopa, Daulatkhan

Month	Soil salinity (EC:dS/m)	
	2023	2024
January		15.67
February		6.97
March		21.74
April		24.17
May		
June		
July		
August		
September		
October		
November		
December	3.40	



Soil Site no-2: Hakimuddin, Borhanuddin

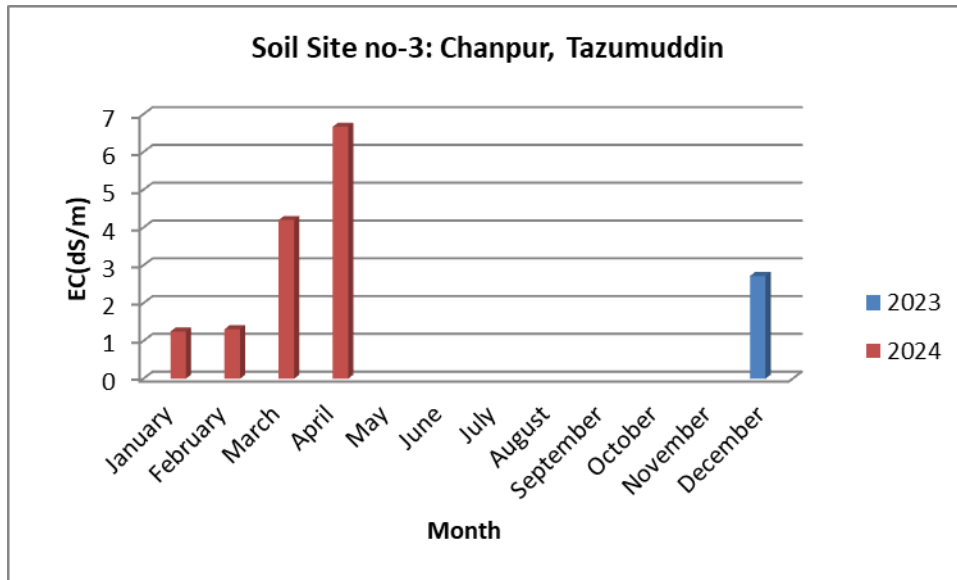
Month	Soil salinity (EC:dS/m)	
	2023	2024
January		5.89
February		2.24
March		2.24
April		2.73
May		
June		
July		
August		
September		
October		
November		
December	3.42	



Soil Site no-3: Chanpur, Tazumuddin

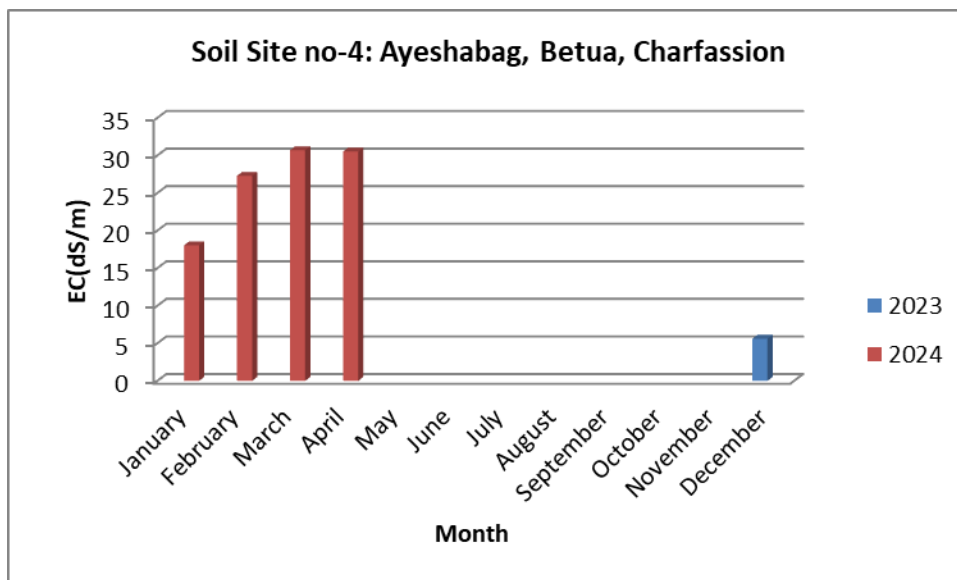
Month	Soil salinity (EC:dS/m)	
	2023	2024
January		1.25
February		1.31

March		4.20
April		6.67
May		
June		
July		
August		
September		
October		
November		
December	2.72	



Soil Site no-4: Ayeshabag, Betua, Charfassion

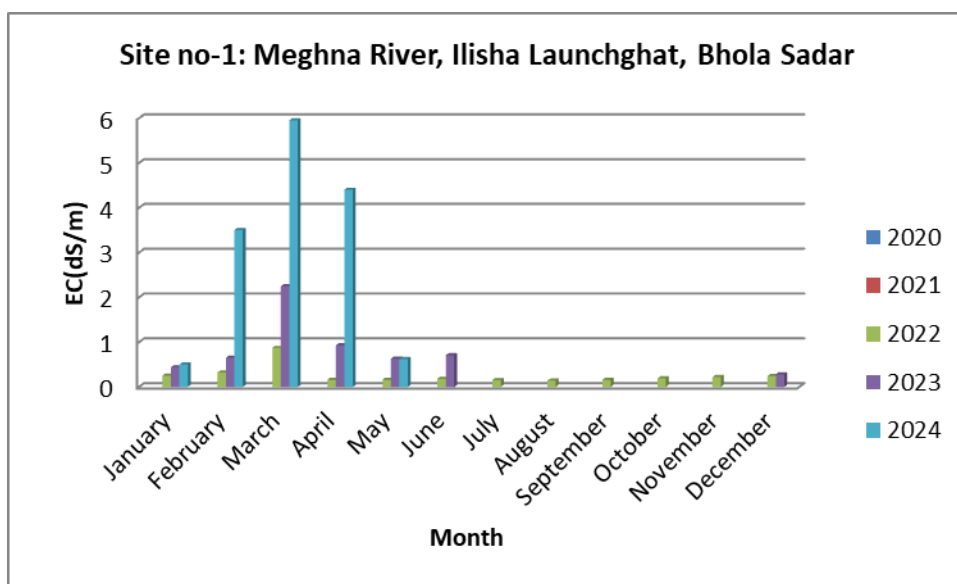
Month	Soil salinity (EC:dS/m)	
	2023	2024
January		18.03
February		27.28
March		30.69
April		30.51
May		
June		
July		
August		
September		
October		
November		
December	5.6	



10 (b). water (surface & ground) salinity (With Graph)

Site no-1: Meghna River, Ilisha Launchghat, Bhola Sadar

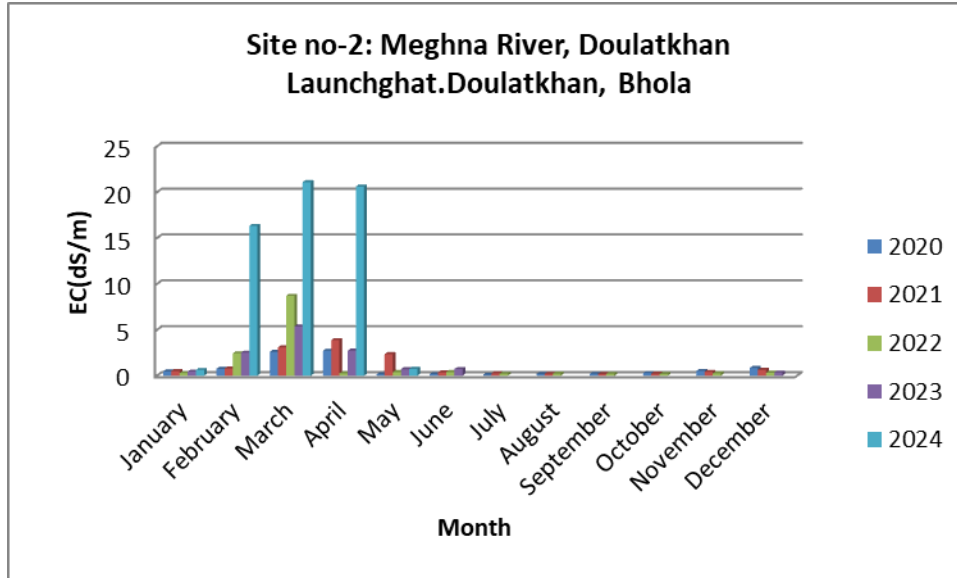
Month	water salinity (EC:dS/m)				
	2020	2021	2022	2023	2024
January			0.25	0.44	0.50
February			0.32	0.65	3.50
March			0.87	2.25	5.95
April			0.16	0.93	4.40
May			0.16	0.63	0.62
June			0.18	0.71	
July			0.15		
August			0.14		
September			0.16		
October			0.19		
November			0.22		
December			0.24	0.28	



Site no-2: Meghna River, Doulatkhan Launchghat, Doulatkhan, Bhola

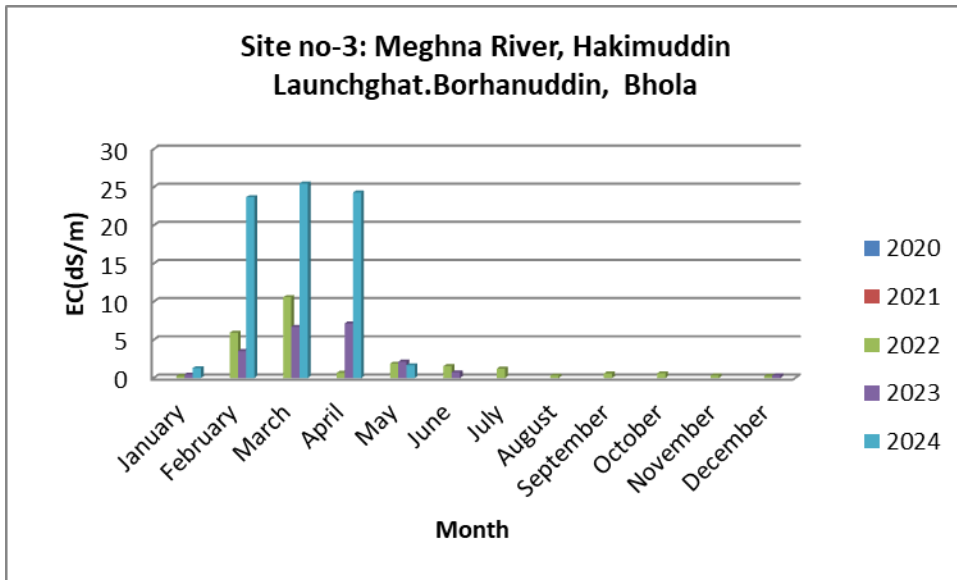
Month	water salinity (EC:dS/m)				
	2020	2021	2022	2023	2024

January	0.47	0.51	0.27	0.45	0.63
February	0.75	0.79	2.44	2.51	16.33
March	2.60	3.10	8.70	5.37	21.10
April	2.72	3.88	0.25	2.73	20.62
May	0.15	2.35	0.40	0.71	0.74
June	0.17	0.36	0.40	0.73	
July	0.10	0.26	0.21		
August	0.18	0.21	0.23		
September	0.20	0.18	0.20		
October	0.27	0.22	0.19		
November	0.52	0.42	0.26		
December	0.85	0.65	0.33	0.34	



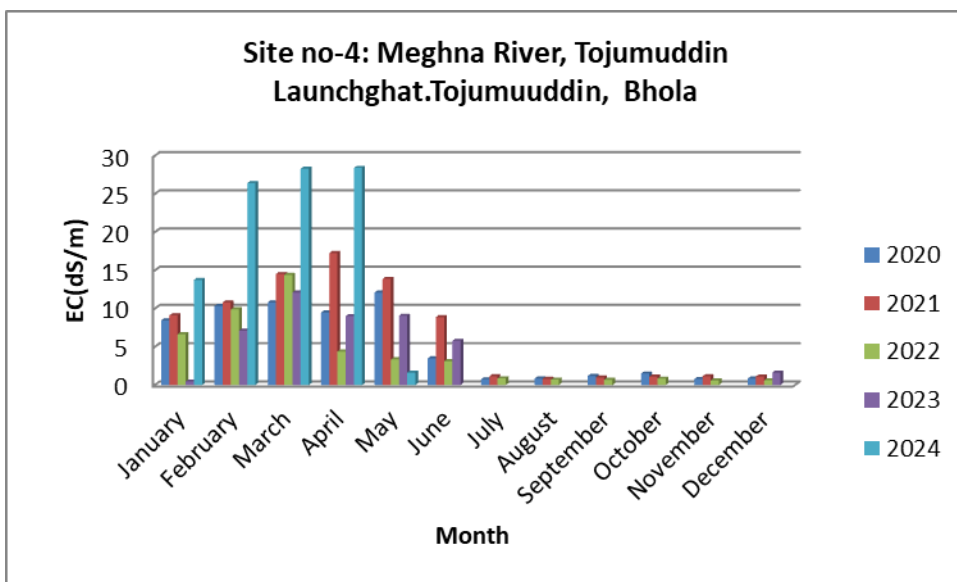
Site no-3: Meghna River, Hakimuddin Launchghat, Borhanuddin, Bhola

Month	water salinity (EC:dS/m)				
	2020	2021	2022	2023	2024
January			0.27	0.46	1.30
February			5.94	3.54	23.70
March			10.61	6.71	25.50
April			0.68	7.16	24.31
May			1.88	2.15	1.68
June			1.56	0.75	
July			1.23		
August			0.33		
September			0.59		
October			0.62		
November			0.35		
December			0.27	0.35	



Site no-4: Meghna River, Tojumuddin Launchghat. Tojumuuddin, Bhola

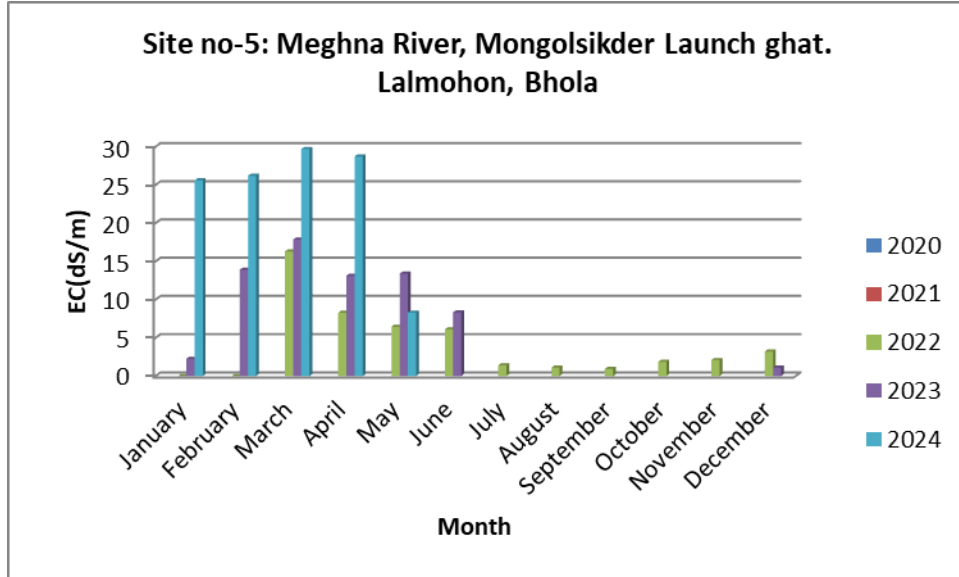
Month	water salinity (EC:dS/m)				
	2020	2021	2022	2023	2024
January	8.45	9.11	6.65	0.45	13.74
February	10.33	10.8	9.91	7.12	26.40
March	10.80	14.52	14.41	12.11	28.30
April	9.50	17.25	4.38	9.02	28.41
May	12.11	13.89	3.36	9.06	1.62
June	3.50	8.87	3.13	5.78	
July	0.75	1.15	0.88		
August	0.85	0.81	0.71		
September	1.20	0.98	0.69		
October	1.50	1.10	0.84		
November	0.79	1.15	0.61		
December	0.85	1.11	0.62	1.62	



Site no-5: Meghna River, Mongolsikder Launch ghat. Lalmohon, Bhola

Month	water salinity (EC:dS/m)				
	2020	2021	2022	2023	2024
January					
February					
March					
April					
May					
June					
July					
August					
September					
October					
November					
December					

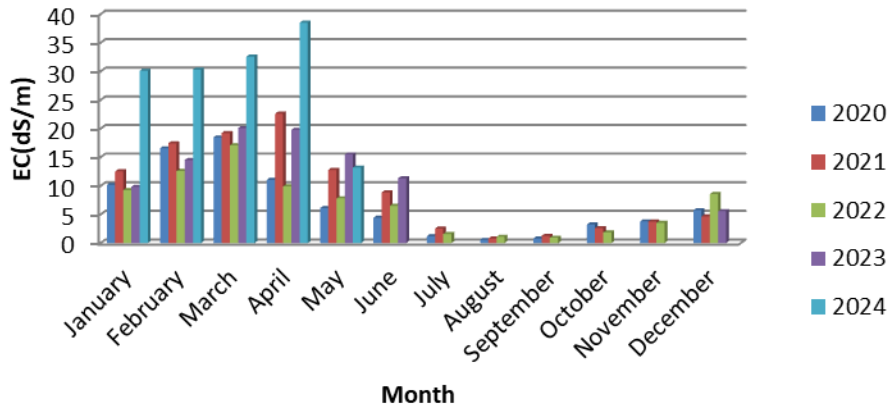
January			-	2.24	25.60
February			-	13.91	26.20
March			16.30	17.85	29.7
April			8.27	13.12	28.73
May			6.45	13.40	8.30
June			6.1	8.32	
July			1.4		
August			1.1		
September			0.95		
October			1.87		
November			2.1		
December			3.2	1.10	



Site no-6: Meghna River, Betua Launchghat. Charfassion, Bhola

Month	water salinity (EC:dS/m)				
	2020	2021	2022	2023	2024
January	10.17	12.54	9.27	9.85	30.10
February	16.56	17.44	12.60	14.53	30.30
March	18.46	19.23	17.10	20.08	32.6
April	11.05	22.61	9.93	19.8	38.5
May	6.13	12.78	7.82	15.50	13.20
June	4.44	8.85	6.52	11.32	
July	1.20	2.53	1.59		
August	0.56	0.82	1.11		
September	0.79	1.26	0.95		
October	3.25	2.63	1.87		
November	3.79	3.78	3.54		
December	5.75	4.66	8.57	5.58	

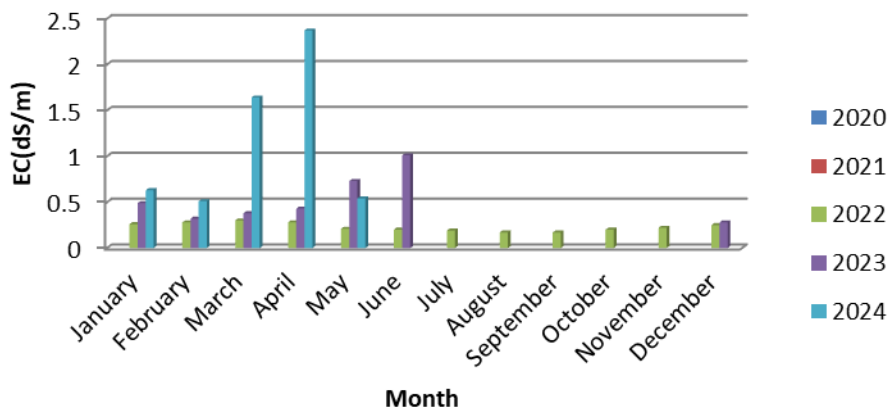
Site no-6: Meghna River, Betua Launchghat. Charfassion, Bhola



Site no-7: Tetulia River, Gongapur Launchghat. Borhanuddin, Bhola

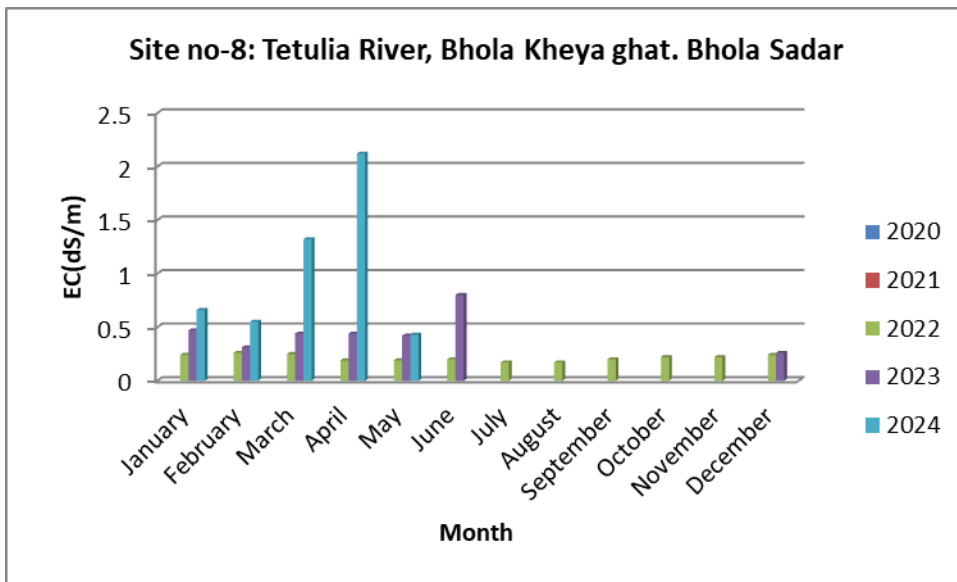
Month	water salinity (EC:dS/m)				
	2020	2021	2022	2023	2024
January			0.26	0.49	0.63
February			0.28	0.32	0.51
March			0.30	0.38	1.64
April			0.28	0.43	2.37
May			0.21	0.73	0.54
June			0.20	1.01	
July			0.19		
August			0.17		
September			0.17		
October			0.20		
November			0.22		
December			0.25	0.28	

Site no-7: Tetulia River, Gongapur Launchghat. Borhanuddin, Bhola



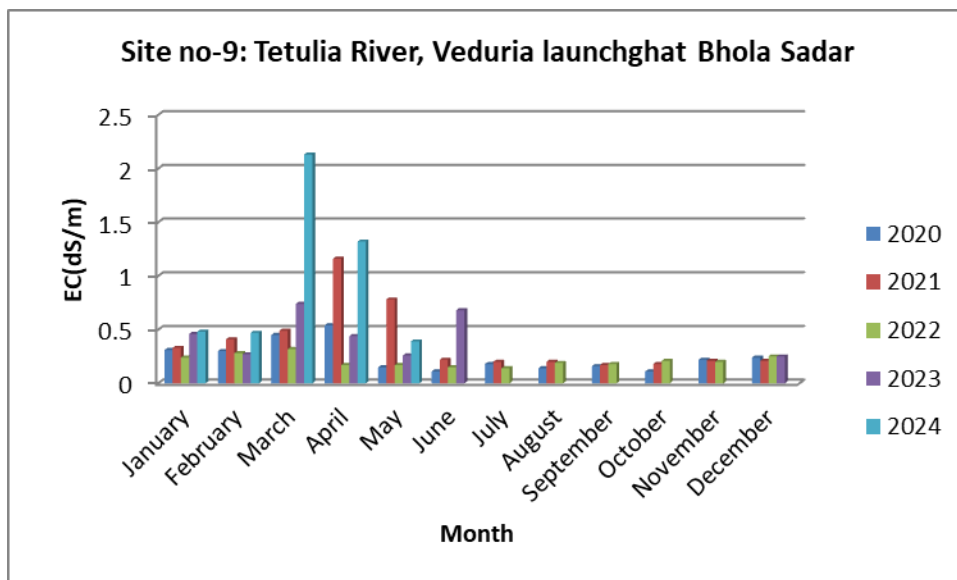
Site no-8: Tetulia River, Bhola Kheya ghat. Bhola Sadar

Month	water salinity (EC:dS/m)				
	2020	2021	2022	2023	2024
January			0.24	0.47	0.66
February			0.26	0.31	0.55
March			0.25	0.44	1.32
April			0.19	0.44	2.12
May			0.19	0.42	0.43
June			0.20	0.80	
July			0.17		
August			0.17		
September			0.20		
October			0.22		
November			0.22		
December			0.24	0.26	



Site no-9: Tetulia River, Veduria launchghat Bhola Sadar

Month	water salinity (EC:dS/m)				
	2020	2021	2022	2023	2024
January	0.31	0.33	0.24	0.46	0.48
February	0.30	0.41	0.28	0.27	0.47
March	0.45	0.49	0.32	0.74	2.13
April	0.54	1.16	0.17	0.44	1.32
May	0.15	0.78	0.17	0.26	0.39
June	0.11	0.22	0.15	0.68	
July	0.18	0.20	0.14		
August	0.14	0.20	0.19		
September	0.16	0.17	0.18		
October	0.11	0.18	0.21		
November	0.22	0.21	0.20		
December	0.24	0.21	0.25	0.25	



11. Research Experiment (if any)

- a) Title of the experiment
- b) Abstract
- c) Introduction
- d) Materials and Method
- e) Results and Discussion
- f) Conclusions

Note: Presenting every experiment, it is necessary to include basic information on land and soil (such as land type, depth and duration of flooding, land use, land form, slope class, soil series, physicochemical parameters where necessary). From Title to Conclusion, every part of the experiment should be written as per standard scientific paper. From Title to Conclusion, every part of the experiment should be written as per standard scientific paper.

12. Details of Officer/Staff

Officer/Staff name	designation	Mobile no	E-mail
Ashik Alahi	SSO	01757126622	ashik132@gmail.com
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Md. Jahirul Islam	Security Guard (Outsourcing)	01677715071	-
Md. Shimul	Cleaner (Outsourcing)	01737218729	Shemulsrdi921@gmail.com