

Annual Activities of the Year 2021-2022
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 | | | Borhaun Uddin | Borhaun Uddin, | Borhaunuddin | Borhaunuddin | | |
| Barishal | Barishal Sadar | Barishal Sadar | | | | | | |

2. Information on Upazila Surveyed during 2021-2022

2(a) Name of Upazila & District:

| Upazila | District |
|----------------|----------|
| Barishal Sadar | Barishal |

2(b) Major findings:

i) Total area-32,649 ha

ii) Total sample collected- 100

iii) Physiography & AEZ code- Ganges River Floodplain (11) and Ganges Tidal Floodplain (13)

iv) Major land type- Medium Highland

v) Major soil group- Ramgati, Jhalkati, Barisal, Sara, Gopalpur, Kalbodhor, Muladi, Hizla, Mehendigonj

2(c) Changes in Land Type:

| Land type | Previous (2009) | | Present (2022) | | % increase/decrease | Possible reasons |
|-----------------|-----------------|-------|----------------|-------|---------------------|---|
| | Area (ha) | % | Area (ha) | % | | |
| Highland | 1253 | 3.8 | 2015 | 6.2 | -0.2 | Cultivable land converted to homestead and settlement |
| Medium Highland | 18015 | 55.2 | 15505 | 47.6 | -7.6 | |
| Medium Lowland | 1752 | 5.4 | 1600 | 5 | -.04 | Siltation |
| Lowland | 419 | 1.3 | 400 | 1.2 | -0.1 | |
| Miscellaneous | 11210 | 34.3 | 13039 | 40 | +5.7 | Gain of area due to homestead and settlement |
| Total | 32,649 | 100.0 | 32,649 | 100.0 | | |

2(d) Changes in Land Use:

| Land Use | Land type | Previous (2009) | | Present (2022) | | % increase/decrease | Possible reasons |
|------------------|------------|-----------------|------|----------------|-----|---------------------|--|
| | | Area (ha) | % | Area (ha) | % | | |
| 1. RV-KV | HL | 8014 | 24.5 | 1633 | 5 | -19.5 | |
| 2. B-F-TA | MHL | 4948 | 15.2 | 7183 | 22 | +6.8 | Profitable and developed irrigation infrastructure |
| 3. RC- T.Aus- TA | MHL | 2569 | 7.9 | - | - | -7.9 | Change in Rainfall Pattern and less cost effectiveness |
| 4. F-T.Aus- TA | MHL | 2350 | 7.2 | - | - | -7.9 | |
| 5. RC-F- TA | MHL | - | - | 8162 | 25 | +25 | Government incentive |
| 6. F-F-TA | MHL | - | - | 1632 | 5 | +5 | Cost effectiveness |
| 7. B-F-F | MHL/MLL/LL | 2077 | 6.4 | 1632 | 5 | -1.4 | |
| 8. Others | HL/MHL | 2101 | 6.4 | 1633 | 5 | -1.4 | |
| Miscellaneous | | 10590 | 32.4 | 10774 | 33 | +0.6 | |
| Total | | 32,649 | 100 | 32,649 | 100 | | |

2(e) Changes in Settlement area increment:

| Settlement Area | 2009 (year) | | 2022 (year) | | % increase/decrease | Possible Reasons |
|-----------------|-------------|------|-------------|------|---------------------|---|
| | Area (ha) | % | Area (ha) | % | | |
| Settlement | 5133 | 15.7 | 6330 | 19.4 | +3.7 | Due to Family fragmentation and interest in homestead cultivation |

3. Union Sahayika Preparation

| Name of Office | District | Upazila | No. of shahayika prepared |
|----------------|----------|-------------|---------------------------|
| Bhola Regional | Bhola | Charfassion | 6 |
| | Khulna | Dakope | 4 |
| Total | | | 10 |

4. Mobile Soil Testing Services (MSTL)

| Name of Office | District | Name of Upazila | | Total no. of sample analyzed |
|----------------|----------|-----------------|-------------|------------------------------|
| | | Rabi/2021 | Kharif/2022 | |
| Bhola Regional | Bhola | Borhanuddin | | 50 |

5. Yield Data of STB Field Trial

| SL No. | Name of Upazila | Name of District | Crop (s) & variety (s) | Average yield (t/ha) | | Yield increase/decrease (%) |
|--------|-----------------|------------------|------------------------|----------------------|--------------------|-----------------------------|
| | | | | Farmers' field | Demonstration plot | |
| - | - | - | - | - | - | - |

6. Distribution of Fertilizer Recommendation Card

| Name of Office | District | Upazila | Type of service | | Total | Remarks |
|------------------------|----------|-------------|------------------|--------------|-------|---------|
| | | | Nirdeshika based | Online based | | |
| Regional Office, Bhola | Bhola | BholaSadar | 48 | - | 48 | |
| | | Doulatkhan | 157 | - | 157 | |
| | | Borhanuddin | 250 | - | 250 | |
| | | Monpura | 50 | - | 50 | |
| Total | | | | | 505 | |

7. Training Programme

7(a) Training Received

| Name of Office | Title of the programme | Duration | Host organization | Participant | |
|------------------------|---|----------|-------------------|-------------|--------|
| | | | | Designation | Number |
| Regional Office, Bhola | Crop Signature Collection Using Remote Sensing Technology | 1 day | SRDI, Dhaka | SSO | 1 |
| | e-nothi | 1 day | SRDI head office | SSO | 1 |

7(b) Training Imparted

| Name of Office | Title of the programme | Duration | Host organization | Participant | |
|------------------|---|----------|--|-------------|----------------|
| | | | | Type | Number |
| , Bhola Regional | Method of soil sample collection & use of balanced fertilizer | 1 Day | SRDI, Bhola RO, Revenue funded | Farmer | 50 (2 batches) |
| | Collection of Crop Signature Using Remote Sensing Technology | 1 day | SRDI, Bhola RO, Funded by Remote Sensing Programme | SAAO | 30 (1 batch) |

8. Advisory Services to Beneficiaries

| Name of Office | District | Upazila | Agency | Service Provided |
|------------------------|----------|--------------|---------------------------------------|--|
| Regional Office, Bhola | Bhola | All Upazilla | DAE | Provided information on soil and water salinity of Bhola District. |
| | Bhola | Lalmohon | Farmers group | Identify Soil Salinity related problems and gave suggestion for salinity management. |
| | Bhola | BholaSadar | BARI, Bhola | Provided SadarUpazilla Land and soil related information. |
| | Bhola | All Upazilla | Daily ProthomAlo, Bhola Correspondent | Provided soil nutrient status, land type and land formation related information of Bhola District. |

9. Distribution of saplings and/seedlings

| Name of Office | District | Upazila | Number | | Total | Remarks |
|----------------|----------|-------------|--------|------------|-------|---------|
| | | | Fruits | Vegetables | | |
| Bhola Regional | Bhola | Borhanuddin | 250 | - | 250 | |

10. Details of Officer/Staff

| Officer/Staff name | designation | Mobile no | E-mail |
|--------------------|-------------|-------------|--------------------|
| Ashik Alahi | SSO | 01757126622 | ashik132@gmail.com |

11. Research Experiment (if any): N/A

12. Salinity Monitoring: **Bhola Regional Office**

12(a) Soil Data: N/A

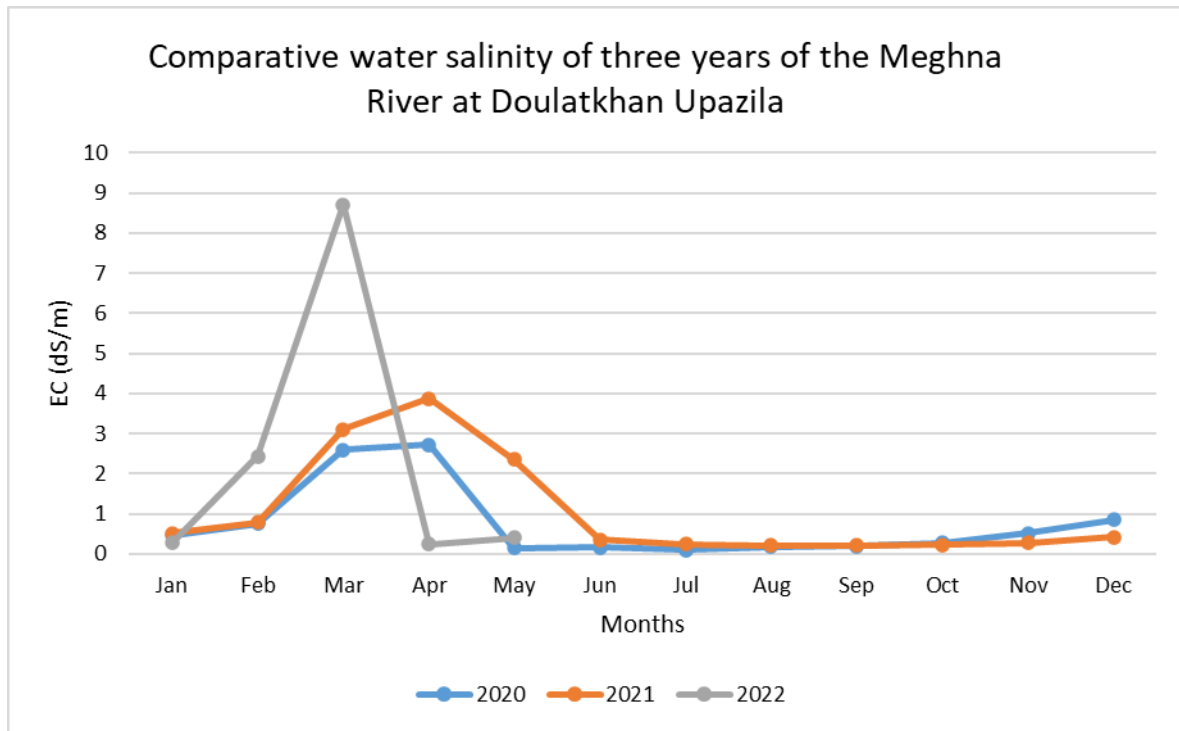
12(b) Water Data:

Site no-1: Meghna River, Ilisha Launchghat. BholaSadar

| Year | Months | | | | | | | | | | | |
|------|--------|------|------|------|------|------|------|------|------|------|------|------|
| | Jan. | Feb. | Mar. | Apr. | May. | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
| 2022 | 0.25 | 0.32 | 0.87 | 0.16 | 0.16 | | | | | | | |

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

| Year | Months | | | | | | | | | | | |
|------|--------|------|------|------|------|------|------|------|------|------|------|------|
| | Jan. | Feb. | Mar. | Apr. | May. | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
| 2020 | 0.47 | 0.75 | 2.6 | 2.72 | 0.15 | 0.17 | 0.1 | 0.18 | 0.2 | 0.27 | 0.52 | 0.85 |
| 2021 | 0.51 | 0.79 | 3.1 | 3.88 | 2.35 | 0.36 | 0.25 | 0.21 | 0.21 | 0.22 | 0.27 | 0.42 |
| 2022 | 0.27 | 2.44 | 8.70 | 0.25 | 0.40 | | | | | | | |

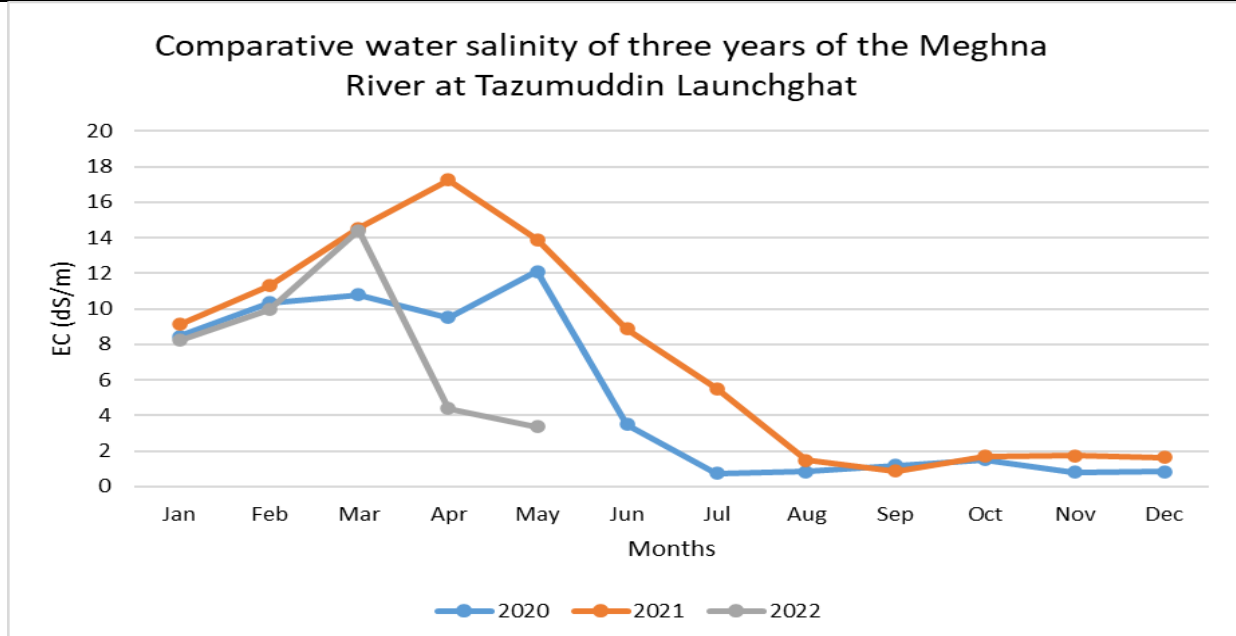


Site no-3: Meghna River, Hakimuddin Launchghat. Borhanuddin, Bhola

| Year | Months | | | | | | | | | | | |
|------|--------|------|-------|------|------|------|------|------|------|------|------|------|
| | Jan. | Feb. | Mar. | Apr. | May. | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
| 2022 | 0.27 | 5.94 | 10.61 | 0.68 | 1.88 | | | | | | | |

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

| Year | Months | | | | | | | | | | | |
|------|--------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| | Jan. | Feb. | Mar. | Apr. | May. | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
| 2020 | 8.45 | 10.33 | 10.8 | 9.5 | 12.11 | 3.5 | 0.75 | 0.85 | 1.2 | 1.5 | 0.79 | 0.85 |
| 2021 | 9.11 | 11.31 | 14.52 | 17.25 | 13.89 | 8.87 | 5.52 | 1.47 | 0.87 | 1.70 | 1.74 | 1.65 |
| 2022 | 8.22 | 9.95 | 14.41 | 4.38 | 3.36 | | | | | | | |

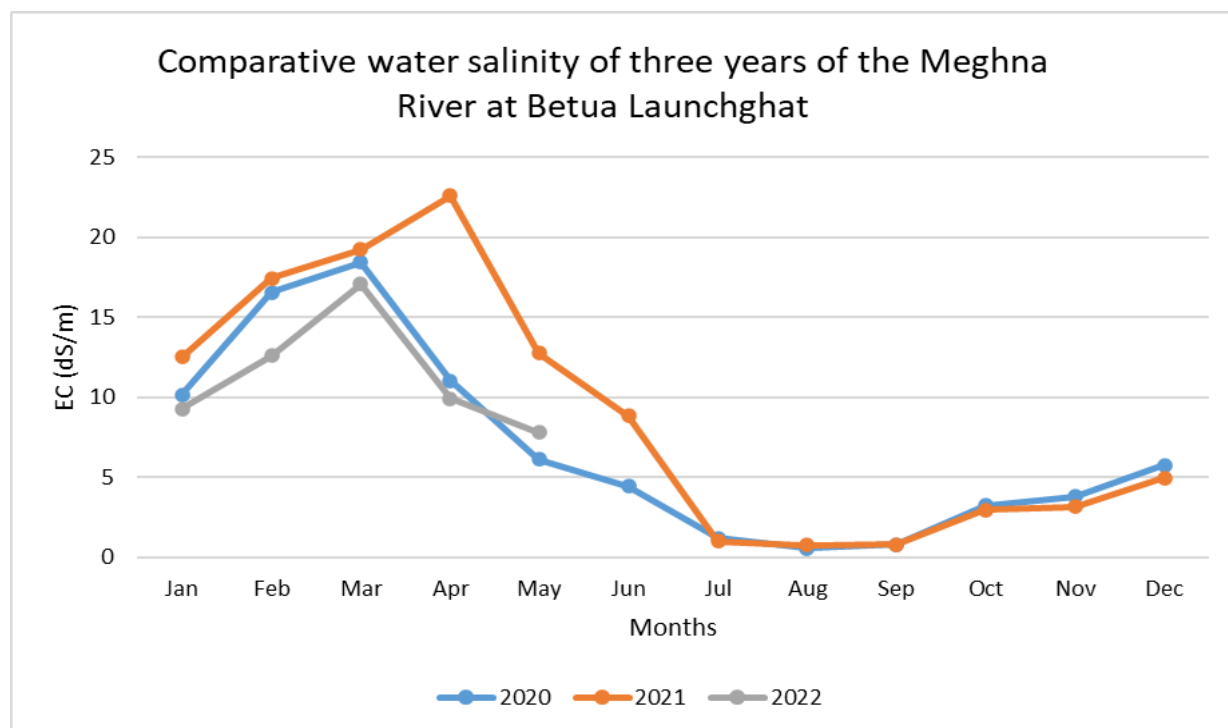


Site no-5: Meghna River, Mongolsikder Launchghat.Lalmohon, Bhola

| Year | Months | | | | | | | | | | | |
|------|--------|------|-------|------|------|------|------|------|------|------|------|------|
| | Jan. | Feb. | Mar. | Apr. | May. | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
| 2022 | - | - | 16.30 | 8.27 | 6.45 | | | | | | | |

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

| Year | Months | | | | | | | | | | | |
|------|--------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| | Jan. | Feb. | Mar. | Apr. | May. | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
| 2020 | 10.17 | 16.56 | 18.46 | 11.05 | 6.13 | 4.44 | 1.2 | .56 | 0.79 | 3.25 | 3.79 | 5.75 |
| 2021 | 12.54 | 17.44 | 19.23 | 22.61 | 12.78 | 8.85 | 1.0 | 0.76 | 0.79 | 2.95 | 3.15 | 4.95 |
| 2022 | 9.27 | 12.60 | 17.10 | 9.93 | 7.82 | | | | | | | |



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

| Year | Months | | | | | | | | | | | |
|------|--------|------|------|------|------|------|------|------|------|------|------|------|
| | Jan. | Feb. | Mar. | Apr. | May. | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
| 2022 | 0.26 | 0.28 | 0.30 | 0.28 | 0.21 | | | | | | | |

Site no-8: Tetulia River,BholaKheyaghat.BholaSadar

| Year | Months | | | | | | | | | | | |
|------|--------|------|------|------|------|------|------|------|------|------|------|------|
| | Jan. | Feb. | Mar. | Apr. | May. | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
| 2022 | 0.24 | 0.26 | 0.25 | 0.19 | 0.19 | | | | | | | |

Site no-9: Tetulia River, Veduria launchghat.BholaSadar

| Year | Months | | | | | | | | | | | |
|------|--------|------|------|------|------|------|------|------|------|------|------|------|
| | Jan. | Feb. | Mar. | Apr. | May. | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
| 2020 | 0.31 | 0.3 | 0.45 | 0.54 | 0.15 | 0.11 | 0.18 | 0.14 | 0.16 | 0.11 | 0.22 | 0.24 |
| 2021 | 0.33 | 0.41 | 0.49 | 1.16 | 0.78 | 0.22 | 0.24 | 0.19 | 0.17 | 0.17 | 0.3 | 0.31 |
| 2022 | 0.24 | 0.28 | 0.32 | 0.17 | 0.17 | | | | | | | |

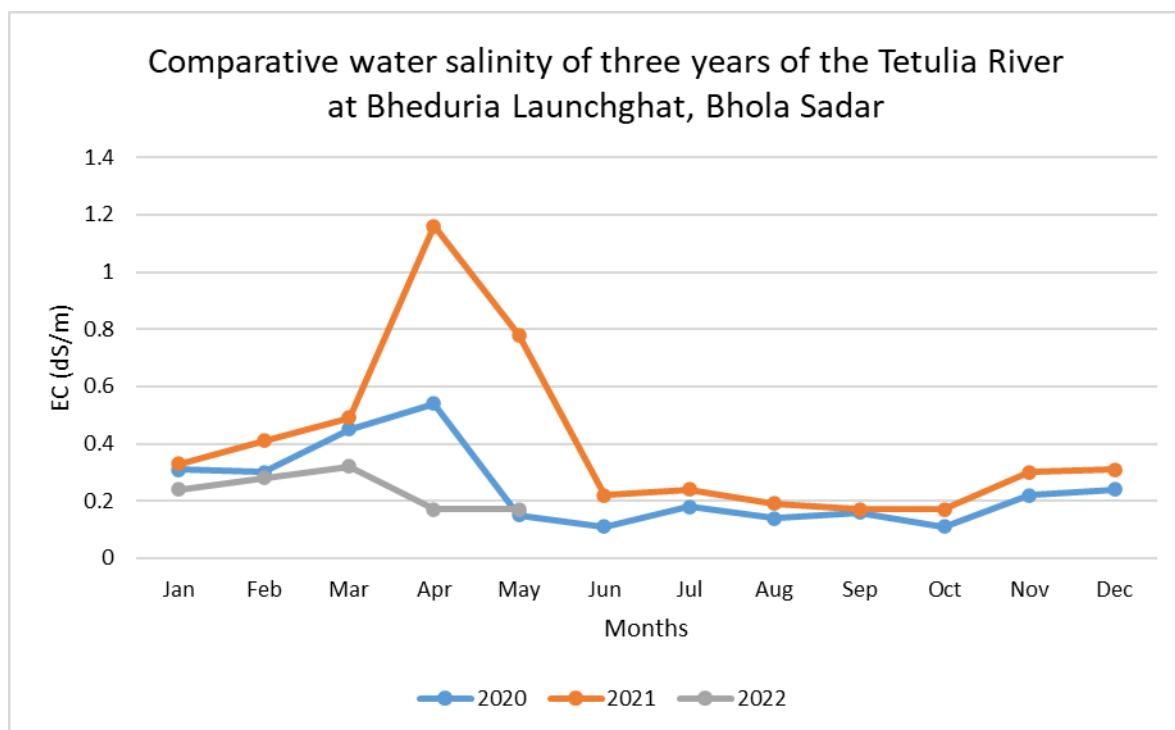


Table: Water salinity and irrigation suitability

| Name of River/Khal | Location | Period safe for irrigation | Period not safe for irrigation |
|--------------------|--------------------------------------|----------------------------|--------------------------------|
| Tetulia River | Borhanuddin Bhola | Round the year | - |
| Meghna River | Illishaghat, BholaSadar | May- January | February-April |
| Meghna River | Betua launch ghat, Charfasion, Bhola | - | Round the year |
| Meghna River | Tazumuddin launch ghat, Bhola | - | Round the year |

Crop Signature Collection

| Name of Office | District | Upazila |
|------------------------|----------|-------------|
| Regional Office, Bhola | Bhola | Bhola Sadar |
| | | Borhanuddin |
| | | Lalmohon |