



The Government of the People's Republic of Bangladesh,
Ministry of Shipping

Bangladesh Inland Water Transport Authority (BIWTA)

The World Bank



MONTHLY PROGRESS REPORT JANUARY 2025

**Consultancy Services for Supervision and Monitoring of Performance-Based Dredging
Contracts with Maintenance Dredging and Installation and Maintenance of Navigational Aids
along the Navigational Routes under the Contract**

**Bangladesh Regional Waterway Transport Project-1
BRWTP-S1A**



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EXECUTIVE SUMMARY

Background

The Government of Bangladesh has prioritized developing and maintaining the Dhaka-Chittagong corridor's Class I Route and connected Class II and III Routes. To support this effort, the "Bangladesh Regional Waterway Transport Project-1" (BRWTP-1) has been initiated with financial assistance from the World Bank. The project consists of three major components, with Component 1 focusing on dredging and maintaining river corridors and ferry routes through output and performance-based contracts (OPBC).

The supervision and monitoring of the project, managed by the consulting firm JPZ-DEMAS-JCL (S1A), began in December 2022. The Bangladesh Inland Water Transport Authority (BIWTA), under the Ministry of Shipping (MoS), is responsible for implementation, with the World Bank financing the activities.

The dredging works are divided into two lots:

Lot-2: Contractor GULF-COBLA KARNAFULY JV, covering Routes 3, 4, 5, 6, 7 & 8, 9, 10, and 11.

Lot-3: Contractor DHARTI-BANGA JV, covering Routes 12, 13, 13a, 15, 16, 17, and 21.

Progress Summary on Phase-II Capital Dredging Activities (January 2025):

This report outlines the progress and challenges encountered during Phase-II capital dredging activities for Lot 2 and Lot 3 in this Reporting Month of January 2025. Key updates include dredging progress, environmental assessments, and social and resettlement activities. The findings emphasize the importance of stricter adherence to environmental and social guidelines, along with proactive engagement with local stakeholders to effectively address challenges. While the Second Phase has progressed for six months, there is still significant potential for improvement in Lot-2 to achieve the desired outcomes.

Dredging Activities

Lot-2: In January 2025, dredging activities were carried out along Route-05 (Meghna) under Lot-2, covering the Ashuganj to Munshiganj stretch. Excavation began on January 25, 2025, at the Ashuganj Cargo Terminal Area, using a Long Boom Excavator and Barge.

Lot-3: Capital dredging for Phase II commenced on Route-21 (Laharhat–Bheduriya) on October 10, 2024, with a dredging volume of 25,641 cubic meters recorded in January 2025. Dredging on Route-13 (Alubazar–Horina) began on November 25, 2024, and the dredged volume for January 2025 was 4,700 cubic meters. On Route-16 (Mehendiganj–Bheduriya), dredging started on January 29, 2025, with a recorded dredged volume of 20,822 cubic meters for the month. The total dredging volume for January 2025 was 51,163 cubic meters.

Environmental Assessment

Environmental monitoring was conducted at Route 05 (Meghna) in Lot 2 and Routes 16 and 21 in Lot 3. Samples were collected for air quality, noise levels, underwater noise, riverbed sediment, surface water, and dredged material analysis. Parameters remained within acceptable limits, with no noticeable environmental degradation due to dredging operations.

Regarding biodiversity forty (40) fish species and two (02) crustacean species were recorded on Route 05. Ganges River Dolphins were not encountered, but their presence was confirmed through local

consultations. A fisheries survey along Routes 16 and 21 recorded 28 fish species and five prawn species. No Gangetic River Dolphins were sighted, and local fishermen reported of no recent sightings in the area.

Freshwater turtles were not sighted, and no visible fish mortality was observed in this Reporting Period.

Social and Resettlement Status

More than 100 disposal sites were identified under Lot-2 and Lot-3. Lot-3 experienced delays due to local political transitions but made progress in site identification and compliance efforts. In Lot-2, 67 Good Faith Agreements (GFAs) were completed in compliance with the World Bank's safeguard policies. However, challenges were reported in documentation and coordination with government offices.

Regarding community engagement and ESHS compliance, meetings and consultations were conducted with government agencies, the PIU, and local stakeholders to address concerns. S1A Consultants organized two separate awareness training sessions on Environmental, Social, Health, and Safety (ESHS) standards for field staff and contractors of Lot-2 and Lot-3, respectively. Additionally, navigational aids including buoys, beacons, and signboards installed so far were found fully operational ensuring safe river traffic.

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ABBREVIATION

AILA	Association of International Lighthouse Authorities
ASCII	American Standard Code for Information Interchange
BIWTA	Bangladesh Inland Water Transportation Authority
BM	Bench Mark
BRWTP	Bangladesh Regional Waterway Transport Project I
BWDB	Bangladesh Water Development Board
CD	Chart Datum
CEAP	Contractor's Environmental Action Plan
CSD	Cutter Suction Dredger
DC	District Commissioner
EIA	Environmental Impact Assessment
EMP	Environment Management Plan
ESHS	Environment, Social, Health and Safety
ESMP	Environment and Social Management Plan
GBV	Gender-Based Violence
GIS	Geographic Information System
GPS	Global Positioning System
GRC	Grievance Redress Committee
GRM	Grievance Redressal Mechanism
HSE	Health and Safety Expert
IALA	International Association of Marine Aids and Lighthouse Authorities
IBC	Idle Berthing Centre
ID	Identity
IHO	International Hydrographic Organization
IWT	Inland Water Transport
JPZ	Jurutera Perunding Zaaba
JV	Joint Venture
LAD	Least Available Depth
LLW	Lowest Low Water
MOEF	Ministry of Environment, Forest and Climate Change.
MSL	Mean Sea Level
NID	National Identity
OPBC	Output and Performance-Based Contract
PC Poles	Pre-Stressed Concrete Poles
PIU	Project Implementation Unit
RAP	Resettlement Action Plan
RCC	Reinforced Cement Concrete
RTK-GPS	Real-Time Kinematic- Global Positioning System
SOB	Survey of Bangladesh
TBM	Temporary Bench Mark
UTM	Universal Transverse Mercator
VSS	Vessel Storm Shelter
WB	World Bank
WGS	World Geodetic System

CHAPTER 01: PROJECT DESCRIPTION IN A BRIEF

1.1 BASIC INFORMATION

Project Title	:	Consultancy Services for Supervision and Monitoring of Performance-Based Dredging Contracts with Maintenance Dredging and Installation and Maintenance of Navigational Aids along the Navigational Routes under the Contract
Source of Funding	:	The World Bank
Contract No.	:	BRWTP-S1A
Employer	:	Bangladesh Inland Water Transport Authority (BIWTA)
Consultant	:	JPZ-DEMAS-JCL JV
Date of signing the contract	:	21 st December 2022; Duration of Contract 66 months
Date of Commencement	:	6 th December 2022; Duration 66 months
Total Routes	:	12 (Twelve)
Phases		Phase I: 18 Months, Phase II: 12 Months, Phase III: 36 Months
Route Nos. under dredging activities	:	Lot-2: 3 & 4, 5, 6, 7 & 8, 9, 10, 11 Lot-3: 12, 13 & 13a, 15 & 16, 17, 21

1.2 LOT-2

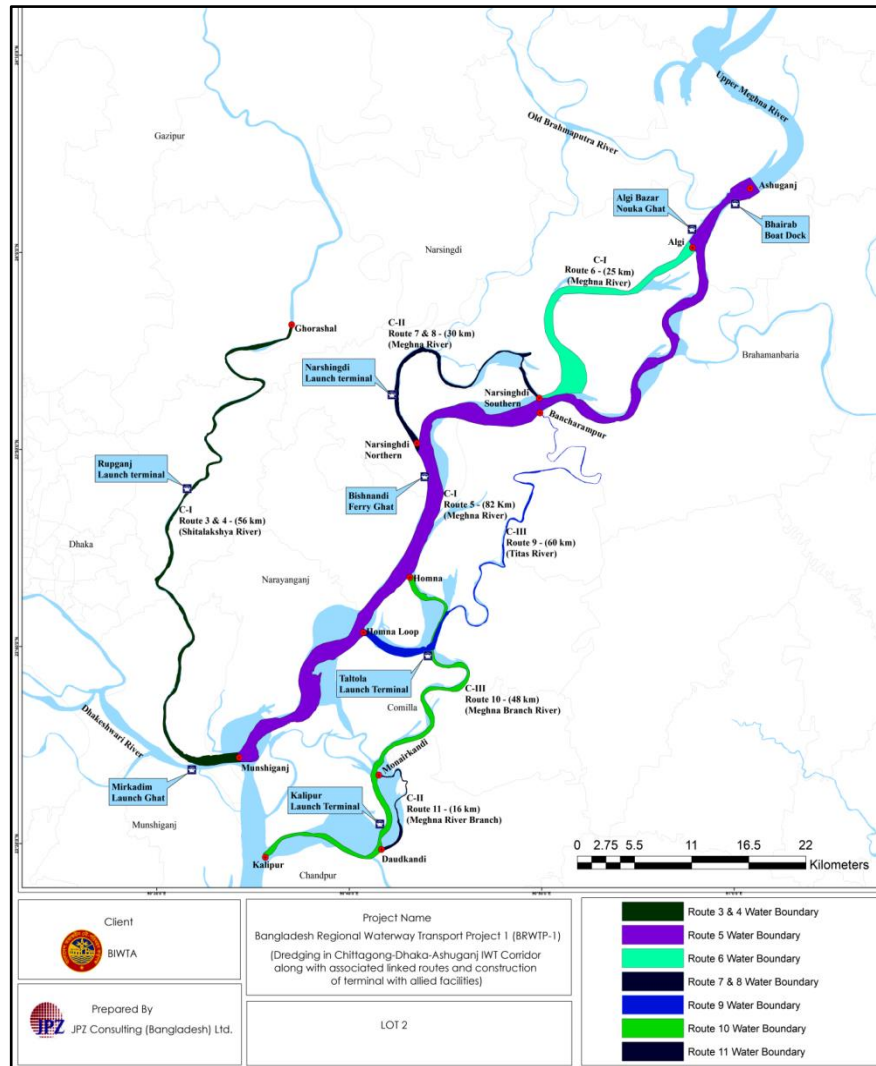


Figure 1: River Boundary Lot-2

Table 1: River Routes Lot-2

Class	Route No	River/location	Length (Km)	Average width (m)	Shoal Length (km)
I	3 & 4	Shitalakshya (From Ghorashal to Munshiganj)	56	400	-
I	5	Meghna (From Ashuganj to Munshiganj)	82	1200	-
I	6	Meghna (Nabinagar Loop joining Route-5)	25	850	1.5
II	7 & 8	Meghna (Narsingdi Northern & Southern approaches)	30	450	5.8
III	9	Meghna (Bancharampur - Homna Loop)	60	180	19.5
III	10	Meghna (Hona-Doudkandi approach)	48	400	-
II	11	Gumti (Meghna loop approaching Dautkandi)	16	300	1.60
Total			317		28.40

1.3 LOT-3

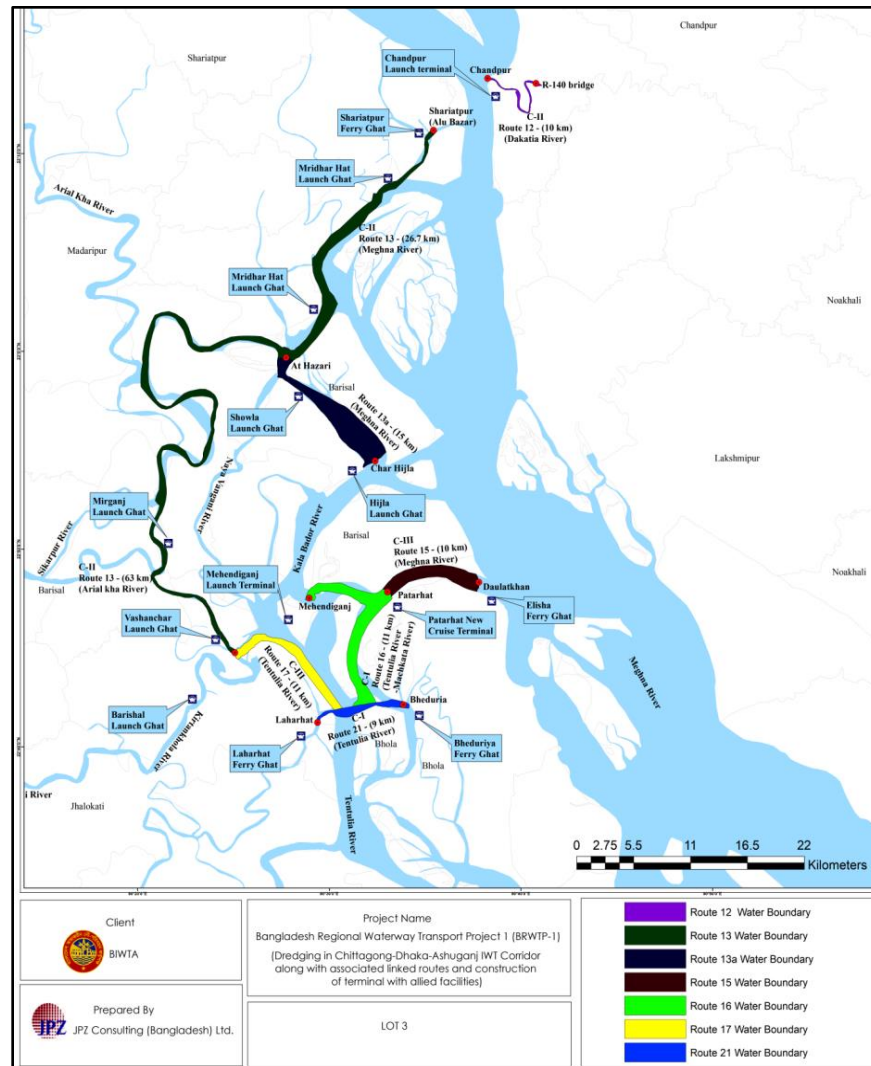


Figure 2: River Boundary, Lot-3

Table 2: River Routes Lot-3

Class	Route No	River/location	Length (Km)	Average width (m)	Shoal Length (km)
II	12	Dakatia (Chandpur to Gastola Bridge)	10	400	-
II	13	Meghna and Arial Khan (Shariatpur-Bheduria)	89.7	1200	-
II	13a	Meghna (Looping root Inside Char Hisla)	15	850	-
III	15	Meghna/ Tentulia (Patarhat-Daulatkhan)	10	450	-
I	16	Meghna/Tentulia (Mehendiganj-Bheduria)	19.6	180	2.1
III	17	Tentulia (Bheduria -Bhashanchar)	11	400	-
I	21	Tentulia (Bheduria -Laharhat)	9	300	2.3
Total			164.3		4.4

CHAPTER 02: SALIENT FEATURES & MONTHLY PROGRESS

2.1 PROGRESS OF BRWTP-S1A:

2.1.1 Development and Maintenance Dredging Works and Monitoring Survey Records:

Lot-2

In January 2025, dredging operations were carried out along Route 05 (Meghna), covering the stretch from Ashuganj to Munshiganj. Work in Lot-02 commenced on January 25, 2025, at the Ashuganj Cargo Terminal Area, with excavation activities conducted between chainage 0+100 to 0+120 over a length of 20 meters. The dredging was performed using an Excavation Long Boom Excavator and a Barge. However, no survey work was conducted for Lot-02 during the reporting month.

Lot-03

In Lot 03, engineering survey activities were conducted jointly with BRWTP-S1A to verify the depth of the dredge. On January 16, 2025, survey work was completed along Route 13 (Meghna) between chainage 3+600 to 4+200. Simultaneously, a similar survey was carried out along Route 16 (Tentulia), covering chainage 0+000 to 1+800 from Patarhat to Bheduriya. These surveys played a crucial role in assessing dredging progress and planning further excavation work to maintain navigational efficiency along the designated routes.

In addition to dredging operations in January, three dredgers (Banga Jamuna, Banga Shitalakkhya, and Banga Padma) were actively working at the Lot-03 sites. The Lot-03 contractor commenced Capital Dredging for Phase II on the following routes: Route 21 (Laharhat – Bheduriya) on October 10, 2024, Route-13 (Alubazar–Horina) on November 25, 2024, and Route-16 (Mehendiganj–Bheduriya) on January 29, 2025. The estimated dredging volume for January 2025 was approximately 51,163 cubic meters.

Status Report on Navigational Aids Installation at Dredging Sites:

The installation of Navigational Aids in both Lots has been completed; however, some final works are still in progress. During the reporting month, no pending activities related to Navigational Aids were finalized, nor was any maintenance work conducted.

2.2.2 Environmental Quality Assessment:

The S1A team reviewed the environmental data provided by the Contractors' monitoring team. For this month (January 2025), monthly monitoring was conducted at River Route 05 Meghna (from Ashuganj to Munshiganj) under Lot 2, as well as River Routes 16, and River Route 21 under Lot 3. The details of the sample collection locations (Annex- VI: Location Map) are presented on the table below:

Table 7: Sample Collection Locations in this month (January 2025)

Month	Environmental Variables.	Lot2	Lot-3
		River Name and Sample Collection Location	River Name and Sample Collection Location
January 2025	Ambient air quality in and around the dredging site	River Route-05 Meghna (From Ashuganj to Munshiganj)	River Route-16 Meghna/Tentulia (Mehendiganj-Bheduriya) and River Route-21
	Noise level quality assessments		
	Underwater Noise Level		

Month	Environmental Variables.	Lot2	Lot-3
		River Name and Sample Collection Location	River Name and Sample Collection Location
	Surface Water Quality		Tentulia (Bheduria -Laharhat)
	Riverbed Sediment		
	Dredged Material		
	Aquatic Fauna (Fish, Dolphin, Turtle)		

As decided in the coordination meeting with the environmental teams of both Lots on January 6, both contractors collected samples this month. For Lot 3, samples were taken from a specific distance from the dredger in the river where dredging is ongoing. For Lot 2, samples were collected from the river where the dredger is stationed in preparation for the start of dredging.

2.2.3 Social and Resettlement Aspects:

Lot-2

A total of 74 disposal sites have been identified in Lot-2 areas, of which 67 Good Faith Agreements (GFAs) have been completed following the World Bank's safeguard policy for Routes 5, 6, 7& 8, 9, and 11. Seven sites were selected on Route 9 and are operated by the district administration of Brahmanbaria. Detailed charts are provided in Annex IV.

Lot-3

A total of 27 disposal sites have been identified in the Lot 3 areas, with details provided in Annex IV. Progress on Lot 3 (Route 13) has faced challenges due to local political transitions and the need for stricter EMP compliance. However, significant opportunities exist for resolution through proactive engagement.

During the Phase-II reporting period, a total of six (06) disposal sites have been identified in Lot 3 areas, as detailed in Annex IV. Among these, one (01) dike is designated for Route 13, one (01) for Route 16, and the remaining four (04) for Route 21.

Land Acquisition/Requisition/Charity for Dike Location Selection:

Information about river dredging, dredged material disposal, and land-related matters is being shared with the public through consultation meetings held in local bazaars, Union Councils, villages, and schools. According to observations from the S1A expert, dike management during the first phase was not satisfactory. Lessons learned from the management of dredged material and dikes should be addressed more carefully, especially considering environmental and social aspects. On the other hand, private land utilization through GFA was more satisfactory. But for utilization of the Government fallow land PIU should start correspondence with the competent authority of The Government of Bangladesh.

Communication and Public Consultation:

During this period, meetings and consultations were held with government authorities, the PIU, and local community members to address community concerns related to the dredging activities. The social and safeguard team of the S1A Consultant actively engaged with residents, the administration, and community leaders at the field level. Additionally, S1A Consultants organized awareness training

sessions for their field staff and contractors to enhance communication with local communities and raise awareness about Environmental, Social, Health, and Safety (ESHS) standards. (Reports attached in Annex-II).

Table 8: Interaction with Clients/Contractors and Other Stakeholders (January 2025)

SN	Date	Venue	Meeting Agenda	Participants
1	01.01.2025	PIU conference room.	Project Progress status and future strategies of the project implementation. And celebrating New Year 2025	Lot-2, Lot-3, PIU and S1A Consultant representatives
2	01.01.2025	S1A Consultant Meeting Room	Project Progress Review and Immediate actions Plan. And celebrating New Year 2025	S1A Consultant Team
3	06.01.2025	S1A Consultant Meeting Room	Meeting for discussing on updating CEAP/C-ESMP.	Lot 2 and Lot 3 ESHS team and S1A Consultant ESHS Team
4	07.01.2025	Bhisnorampur Land Office, Bancharampur	To discuss on selecting disposal areas.	Field Staff of S1A Consultant and Lot-2 Contractor
5	08.01.2025	Sub Assistant Officers (SO) office of Solimganj & Dolarpur union	Discussion on selecting dikes for Meghna (Bancharampur-Homna Loop, Route-09	Social Team Field, BRWTP-S1A, Lot_2
6	12.01.2025	Daudkandi Upazila Office Gumti (Meghna loop approaching Dautkandi).	Meeting on upcoming dredging process of Daudkandi Upazila at Route 11	BRWTP-S1A and Lot_2 representatives with Assistant Commissioner (Land)
7	15.01.2025	Akanagar, SESDP Model High School, Solimganj, Bancharampur	Awareness Training on Projects ESHS Issues	S1A Consultant and Lot-2 Contractors Field Staff
8	15.01.2025	Route number 16 (Patarhat-Bheduria) at Alubazar. New Disposal Area Dyke no.05	Focus group discussion /meeting with local people	Social Team of S1A
9	21.01.2025	Upazila Nirbahi Officers Office, Bancharampur Upazila	Discussion on upcoming dredging programme. Meghna (Bancharampur-Homna Loop). Route-09	BRWTP-S1A team with Upazila Nirbahi Officer of Bancharampur Upazila
10	22.01.2025	Conference Room, Dredger Base, BIWTA, Barishal	Awareness Training on Projects ESHS Issues	S1A Consultant and Lot-3 Contractors Field Staff
11	25.01.2025	UNO Office of Ashuganj Upazila	Meeting on Excavation programme at Ashuganj Cargo Terminal Area. (Old ferry ghat area of Ashuganj) Meghna (Ashuganj to Munshiganj). Route-05 Lot_2	BRWTP-S1A After getting approval of UNO Excavation work starts from 10:00 AM.

Field activities and Visits, BRWTP-S1A (January 2025):

To monitor and supervise the field activities, BRWTP-S1A experts and field staff frequently visited sites when and where necessary. During the reporting period, frequent field visits were necessary to assess the dike, engage with stakeholders, and oversee dredging activities. Tables illustrate detailed field activities at Lot 2 and Lot 3 in Annex-III.

Grievance Redressal Mechanism (GRM):

Two Grievance Redress Committees (GRC) have been formed in the Lot-2 and Lot-3 project areas respectively, with one committee addressing site/local level issues and the other focusing on Contractor-level gender-based violence (GBV) issues. Contractors, supported by S1A, conducted regular consultations to inform locals about reporting mechanisms. Grievance boxes were installed at project

offices and dredging sites for people to submit their complaint letters and hotline numbers were provided for immediate contact.

Furthermore, the PIU, S1A, and senior project management of the Government administration, along with all project officials, maintained contact with the local people during the reporting period, including holidays, to solve different grievances.

Table 9: Monthly Progress of GRM Report, January, 2025 in Lot-02 & Lot-03

Sl. No.	Issues	Status	S1A Comments
1.	River Traffic Management	The reports are updated accordingly if new complaints are lodged.	No complaints have been received from local communities during this reporting period.
2.	Public Health and Dredge Material Disposal on Land	The reports are updated accordingly if new complaints arise.	No complaints have been received from local communities during this reporting period.
3.	Fishermen and other related Groups on Their Livelihoods	The reports are updated accordingly if any complaints are raised.	No complaints have been received from local communities during this reporting period.
4.	Dike Selection	There is a crisis in finding a disposal area near Route 13.	On December 24, 2024, a meeting with a local stakeholder actor was held at Alu Bazar Ghat to finalize the disposal area location.
5	Land Use Agreement	Status of GFA in Lot-03	The execution of GFA is being delayed due to a dispute regarding compensation.

GBV/SEA/SH by workers and enforcement of the CoC:

The local people have reported that the dredging workers/ laborers have no congenial or illicit sexual relationship with local inhabitants. No sexual exploitation, sexual violence, or gender-based violence was reported at work sites.

ESHS, Worker Employment, and OHS Status:

The S1A team evaluated the Environmental, Social, Health, and Safety (ESHS) conditions, worker employment and working conditions, as well as the Occupational Health and Safety (OHS) status during the reporting period. Additionally, awareness training sessions were conducted to educate field staff and Contractors' field representatives from the S1A Consultant on various aspects of the project's ESHS requirements (detailed report attached in Annex-II). To ensure the safety of both workers and the public during the dredging process, data was gathered through field observations during site visits and from monitoring reports provided by both contractors. The collected data is presented in the table below.

Table 10: ESHS Status at a Glance in December 2024

ESHS Issues	Parameters	Lot-2	Lot-3
Occupational Health and Safety (OHS)	Set up a first aid clinic room, equipped with a medical treatment registration card for each employee.	First aid facilities were available at the project sites.	First aid facilities were available at project sites.
	Kitchen sanitation and cleanliness and food quality	Satisfactory	Satisfactory
	Sewage and wastewater discharge and Solid Waste Management	Good arrangements were kept in the Houseboat	Good arrangements were kept in the Houseboat
	Gas cylinder storage and maintenance	Maintained	Maintained
	Fire Extinguisher	Available	Available
	Safe Drinking Water	Accessible. Freshwater is collected daily from tube wells of nearby villages	Accessible. Freshwater is collected daily from tube wells of nearby villages

ESHS Issues	Parameters	Lot-2	Lot-3
	Toilet facilities	Good	Good
Workers' Condition and Employment Situation	Total Employment (person) for all routes	80 (Eighty)	60 (Sixty)
	Male Female Ratio	All employees are Male	No Female Employee
	Wage Status	Good arrangements were kept in the Houseboat	Good arrangements were kept in the Houseboat
	Force Labor/ Child Labor	Not Applicable in this month	Not Applicable in this month
Personal Protection Equipment (PPE) for all staff/workers working on the site.	Wearing appropriate PPE like helmets, safety goggles, hand and arm protection, elbow protection gloves, safety shoes, life jacket/vests for protection while working in the river, use of hearing protection in case of loud noise for all officers/employees and laborers engaged in project work.	Safety helmet, Safety vest, safety shoes, Hand gloves, etc., observed at the site. But not adequate. All workers were not using PPEs.	Available at site level but needs awareness and monitoring for using PPEs
Traffic management	Provision for preventing accidents including nighttime.	River traffic-related signboards have already been installed, checked and found in good condition. Sign boards ensure safe river traffic movement. The types of navigational aids installed (buoys, beacons, lights, etc.) and locations along the dredged routes.	River traffic-related signboards have already been installed, checked and found in good condition. Sign boards ensure safe river traffic movement. The types of navigational aids installed (buoys, beacons, lights, etc.) and locations along the dredged routes.
	Dredging sites were demarcated and protected to ensure community safety.	Adequate signs signals are posted to avoid any unwanted endangered while working.	Working hands are found to be careful about their personal safety and working safety as well.

Source: Field Information S1A Consultant Team and Contractors Environmental Monitoring Report.

2.2 PROGRESS OF LOT-2 (GULF COBLA-KARNAFULY JV) CONTRACTOR:

2.2.1 Development and Maintenance Dredging Works:

In January 2025, dredging operations were carried out along Route 05 (Meghna), covering the stretch from Ashuganj to Munshiganj. Work in Lot-02 commenced on January 25, 2025, at the Ashuganj Cargo Terminal Area, with excavation activities conducted between chainage 0+100 to 0+120 over a length of 20 meters. The dredging was performed using an Excavation Long Boom Excavator and a Barge. However, no survey work was conducted for Lot-02 during the reporting month.

2.2.2 Environmental Quality Assessment of Lot-2 Sites:

In January 2025, an excavator positioned on a barge (24.0423N, 90.9990E) was engaged in bank-side dredging operations along Route 05 at Ashuganj, Brahmanbaria. The fish species composition in the surveyed area was assessed through direct observation and consultations with local fishermen. During this period, forty (40) species of fish and two (02) species of crustaceans were recorded. No visible fish mortality was observed in or around the dredging site and disposal areas.

During the monthly site visit, the observation team did not encounter any Gangetic River Dolphins (*Platanista gangetica*) along the surveyed route. However, discussions with residents and fishermen confirmed the presence of these dolphins in the area.

Freshwater turtles were not sighted within the surveyed area or its surrounding vicinity. Consultations with local fishermen and residents indicated that turtle sightings along Route 05 are infrequent.

Monitoring data and observations suggest that, during the reporting period, the dredging operations had no noticeable adverse effects on the surrounding environment. Key parameters, including water quality, ambient noise levels, air quality, and overall health and safety conditions, remained unaffected. Details are in Annexure V.

2.2.3 Social and Resettlement Aspects at Lot-2 Site:

A total of 74 disposal sites have been identified in Lot-2 areas, of which 67 Good Faith Agreements (GFAs) have been completed following the World Bank's safeguard policy for Routes 5, 6, 7& 8, 9, and 11. Seven sites were selected on Route 9 and are operated by the district administration of Brahmanbaria. Detailed charts are provided in Annex IV.

2.3 PROGRESS OF LOT-3, (DHARTI-BANGA JV) CONTRACTOR:

2.3.1 Development and Maintenance Dredging Works:

In January, three dredgers (Banga Jamuna, Banga Shitalakkhya, and Banga Padma) were actively working at the Lot-03 sites. The Lot-03 contractor commenced Capital Dredging for Phase II on the following routes: Route 21 (Laharhat – Bheduriya) on October 10, 2024, Route 13 (Alubazar–Horina) on November 25, 2024, and Route-16 (Mehendiganj–Bheduriya) on January 29, 2025. The estimated dredging volume for January 2025 was approximately 51,163 cubic meters.

2.3.2 Environmental Quality Assessment of Lot-3 Site:

During the monitoring period, dredging was ongoing on Routes 16 and 21. Environmental monitoring activities covered multiple parameters, including **air quality, noise levels, underwater noise levels, riverbed sediment, surface water, and dredged material** analysis.

The highest recorded noise level was 72.56 dBA near Patarhat launch ghat, primarily due to local vehicle movements such as engine boats, speedboats, and launches. The lowest was 62.11 dBA opposite Patarhat launch ghat. Air quality and noise level monitoring stations were positioned at varying distances (291m–810m) from the nearest dredger. Underwater Noise Monitoring Stations were located 332m–900m from the dredger.

A **fisheries survey** was conducted along Routes 16 and 21, identifying 28 fish species and five prawn species through direct observation and consultations with local fishermen. Various fishing methods, including cast nets and traps, were observed. No visible fish mortality was recorded at the dredging and disposal sites.

Regarding **biodiversity**, no sightings of the **Gangetic River Dolphin (*Platanista gangetica*)** were reported during the study. Consultations with local fishermen indicated that dolphins have not been observed in the area in recent years.

2.3.3 Social and Resettlement Aspects at Lot-3 Site:

A total of 29 disposal sites have been identified in the Lot-3 areas, with details provided in Annex IV. Progress on Lot-3 (Route 13) has faced challenges due to local political transitions and the need for stricter EMP compliance. However, significant opportunities exist for resolution through proactive engagement.

During the Phase-II reporting period, a total of six (06) disposal sites have been identified in Lot-3 areas, as detailed in Annex IV. Among these, one (01) dike is designated for Route 13, one (01) for Route 16, and the remaining four (04) for Route 21.

CHAPTER 03: ACHIEVEMENT OF THIS MONTH'S AND NEXT MONTH'S PLAN

3.1 ACHIEVEMENT OF THIS MONTH (JANUARY 2025):

S1A Consultant

- a) Engineering surveys on Routes 9, 11, and 06 have been carried out throughout January 2025 under Lot 2.
- b) Engineering surveys on Routes 13, 16, and 21 have been carried out throughout the month of January 2025 under Lot-3.
- c) Two comprehensive Environmental, Social, Health, and Safety (ESHS) training sessions were conducted to enhance awareness, build competency, and ensure compliance with ESHS standards among field staff and contractors.
- d) Field visits were carried out by the S1A-ESHS team for both lots.
- e) Monthly Environmental, Social, and GRM activities were conducted, and the observations were communicated to the contractor and PIU.

LOT-2

- a) Monthly Environmental and Social Activities have been conducted.
- b) Phase-II dredging has started in this reporting month on route 5.

LOT-3

- a) Monthly Environmental and Social Activities have been conducted.
- b) Dredging for Phase II on the following routes: Route 21 (Laharhat – Bheduriya), Route-13 (Alubazar–Horina) and Route-16 (Mehendiganj–Bheduriya) is continuing. The estimated dredging volume for January 2025 was approximately 51,163 cubic meters.

3.2 NEXT MONTH PLAN:

S1A Consultant Action Plan

1. Verification of Land Ownership for Selecting Dike Locations

- Coordinate with the government administration to confirm the ownership status of potential disposal sites and ensure adherence to legal procedures.
- Document and report land ownership status for project compliance.

2. Engagement with Local Political Stakeholders

- Facilitate discussions between the contractor and local political leaders to resolve disputes and secure cooperation.
- Actively participate in stakeholder meetings to streamline the disposal site selection process.
- Monitor and document agreements reached with local stakeholders to ensure smooth project execution.

3. Ensuring Compliance with EMP Guidelines

- Conduct site inspections to ensure compliance with the EMP and address any issues at dike sites.

4. Monitoring and Reporting

- Prepare and submit independent reports on compliance status, corrective actions taken, and areas requiring further intervention.

LOT-2

- a) Submission of the completion report for Phase I, including as-built drawings, dredging volume, cross-section, etc.
- b) Submission of the Phase II work plan and resource allocation, including manpower deployment within the remaining timeframe for Phase II.
- c) Updating the C-ESMP and DDMP. Lot 2 has yet to comply with the requirement.
- d) The Lot-2 Contractor's ESHS team is advised to carry out the recommended field visits during the execution of dredging operations.

LOT-3

- a) Submission of the Phase II work plan and resource allocation, including manpower deployment
- b) After completion of pre-hydrographic survey over the entire length of the contracted Lot-3 routes and check the alignment and volume that is required for dredging.
- c) Updating the C-ESMP and DDMP. Lot 3 has failed to comply with the submission deadline.
- d) The Lot-3 Contractor's ESHS team is advised to carry out the recommended field visits during the dredging operation.

CHAPTER 04: CONCLUSION AND RECOMMENDATIONS

4.1 CONCLUSION

During January 2025, significant progress was made in the Phase-II capital dredging activities. The dredging and environmental monitoring activities in January 2025 were conducted efficiently, with no significant adverse impacts on water quality, biodiversity, or community health. Stakeholder engagement and safety measures continue to be prioritized to ensure sustainable project execution.

The contractors were informed to strictly maintain the Environmental and Social compliances as per contractual obligations and The World Bank Guidelines. Effective field visits and GRM implementation were carried out to address potential concerns.

The progress of Lot 2 in completing Phase I activities and preparing for Phase II is lagging behind. Proactive measures are required to avoid time pressure for completing Phase II.

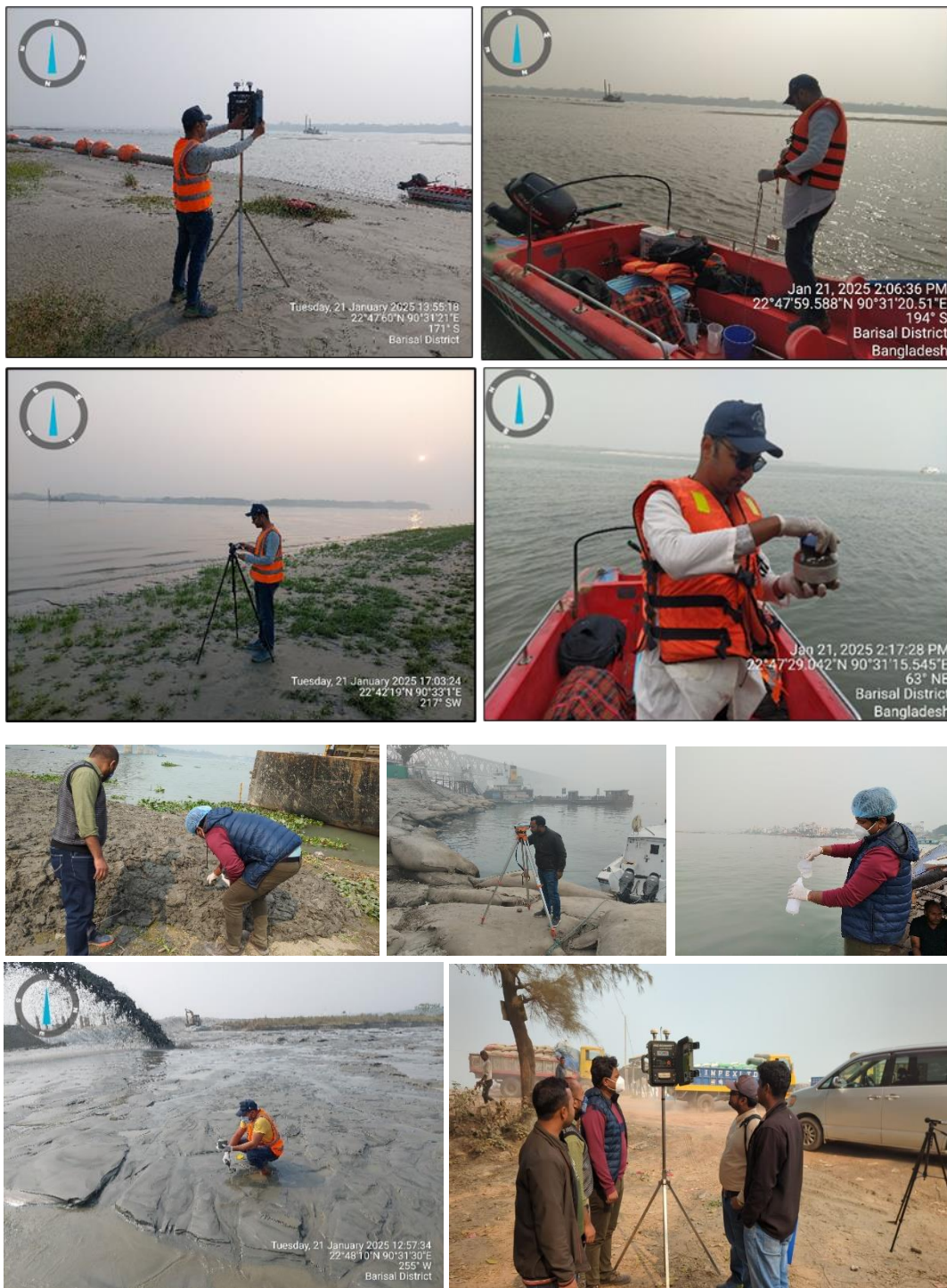
CHAPTER 05: ANNEXURE

ANNEX I: Photos of Project Activities (January, 2025)

Progress Meetings, Awareness, Communication, Consultation, Field Visit, Survey, and Sample Collection:



Consultancy Services for: Supervision and Monitoring of Performance-Based Dredging Contracts with Maintenance Dredging and Installation and Maintenance of Navigational Aids along the Navigational Routes under the Contract



ANNEX II: Report on Awareness Training to Enhance Communication with Local communities and ESHS Standards

Training Report Summary on Environmental, Social, Health, and Safety (ESHS)

Dates & Venues:

- **January 15, 2025** – Akanagar, SESDP Model High School, Solimganj, Bancharampur, Brahmanbaria, Lot-02.
- **January 22, 2025** – Conference Room, Dredger Base (Near Muktijoddha Park), Barisha, Lot-03.

Introduction

Two comprehensive Environmental, Social, Health, and Safety (ESHS) training sessions were successfully conducted to enhance awareness, build competency, and ensure compliance with ESHS standards among field staff and contractors. These sessions aimed to address site-specific challenges in dredging projects and improve environmental and safety practices. A combination of theoretical and practical methodologies ensured maximum engagement and knowledge retention.

Training Methodology

Both training programs incorporated interactive and participatory methods, including:

- Expert presentations for conceptual clarity.
- Role-playing exercises to simulate on-field challenges.
- Group discussions and assessments for critical thinking and problem-solving.
- Case studies and quizzes to ensure knowledge application.

Facilitators and Experts

- **Engr. Golam Rabbani** – Team Leader (January 15 session)
- **Dr. SM A Rashid** – Environmental Specialist
- **Abdul Haye Chowdhury** – Social and Resettlement Expert
- **Rahela Rabbani** – ESHS Expert
- **Asheque Ahmed** – Communication and GRM Expert
- **Balayet Hossain** – Supervision Engineer (January 22 session)

Key Topics Covered

1. **Introduction to ESHS Objectives:** Importance of ESHS compliance in modern project management.
2. **Environmental Laws & Regulations:** National and international environmental policies and legal obligations.
3. **Site-Specific Environmental Risks & Monitoring:** Assessment of environmental risks in dredging and quality control measures.
4. **Social Resettlement & Dike Management:** Best practices for community resettlement and sustainable dike management.
5. **Grievance Redress Mechanism (GRM):** Strategies for stakeholder engagement and dispute resolution.
6. **Occupational Health and Safety (OHS):** Workplace hazard prevention and emergency response measures.

Key Outcomes

- **Enhanced Awareness:** Participants gained a deeper understanding of ESHS standards and their role in sustainable project execution.

- **Competency Development:** Training equipped field staff with practical tools to identify and mitigate ESHS risks.
- **Improved Stakeholder Engagement:** Strengthened participants' ability to handle grievances and ensure transparency.
- **Collaborative Problem-Solving:** Group discussions and case studies fostered teamwork and innovative solutions.

Challenges Identified

- Limited time for in-depth exploration of advanced environmental monitoring techniques.
- Need for additional hands-on training in occupational safety procedures.

Recommendations

1. Organize periodic refresher training sessions to reinforce learning.
2. Introduce field-based training for practical exposure.
3. Develop simplified training manuals summarizing key ESHS standards.
4. Establish a feedback mechanism to track the implementation of training concepts.

Conclusion

The ESHS training sessions were highly successful in strengthening awareness and technical competencies among field staff and contractors. The structured learning approach, expert-led sessions, and interactive activities contributed significantly to capacity building in environmental, social, health, and safety aspects. These initiatives mark a significant step toward ensuring sustainable and safe project execution in future dredging and construction activities.

ANNEX III:

Field activities Records of BRWTP-S1A for the month of January, 2025

Table 1: Field Movement Lot-2 January, 2025

SN	Date	Activity	Route name & Route number	Remarks
1	05.01.2025	Sharing dredging chart of Phase-2 with Union level designated officers.	Meghna (Bancharampur-Homna Loop) Route-09 of Lot_2	BRWTP-S1A, Field Team 1
2	05.01.2025	Sharing dredging chart of Phase-2 with Union level designated officers.	Gumti (Meghna loop approaching Dautkandi), Route-11 of Lot_2	BRWTP-S1A, Field Team 2
3	06.01.2025	Field visited for dike Selection at Dautkandi, Cumilla	Gumti (Meghna loop approaching Dautkandi). Route-11 Lot_2	BRWTP-S1A, Field Team 1
4	06.01.2025	Field visited for dike Selection at Bancharampur, Brahmanbaria	Meghna (Bancharampur-Homna Loop). Route-09 Lot_2	BRWTP-S1A, Field Team 2
5	07.01.2025	Visited Nayeb of Bhisnorampur Land Office to discuss on selecting disposal areas.	Meghna (Bancharampur-Homna Loop). Route-09 Lot_2	BRWTP-S1A, Field Team
6	08.01.2025	Meeting with Sub Assistant Officer of Salimganj & Dolarpar union	Meghna (Bancharampur-Homna Loop). Route-09 Lot_2	BRWTP-S1A
7	09.01.2025	Dyke Selection at Salimganj Union.	Meghna (Bancharampur-Homna Loop). Route-09 Lot_2	BRWTP-S1A
8	12.01.2025	Meeting with Assistant Commissioner (Land) of Daudkandi Upazila on upcoming dredging process.	Gumti(Meghna loop approaching Dautkandi). Route-11 Lot_2	BRWTP-S1A
9	13.01.2025	Venue Selection for ESHS training.	Salimganj Union near Route 09	BRWTP-S1A, Field Team
10	19.01.2025	Visited Nayeb of Dolabangha union Land Office to discuss on selecting disposal areas.	Meghna (Bancharampur-Homna Loop). Route-09 Lot_2	BRWTP-S1A
11	20.01.2025	Visiting site with Nayeb Emran of Vishonatpur union	Meghna (Bancharampur-Homna Loop). Route-09 Lot_2	BRWTP-S1A
12	21.01.2025	Meeting with UNO of Bancharampur Upazila on upcoming dredging activities.	Meghna (Bancharampur-Homna Loop). Route-09	BRWTP-S1A, Lot_2
13	22.01.2025	Visiting site with PIU Mamun Khan (Assistant Engineer) at Dolabangha union for Dyke Selection.	Meghna (Bancharampur-Homna Loop). Route-09	BRWTP-S1A, Lot_2
14	23.01.2025	Visiting site at Daudkandi upazila for Dyke Selection.	Gumti(Meghna loop approaching Dautkandi).Route-11	BRWTP-S1A team with PIU Mamun Khan (Assistant Engineer) and Lot_2 representatives
15	24.01.2025	Visiting Ashuganj Cargo Terminal Area with for Excavation process & fix the Alignment.	Meghna (Ashuganj to Munshiganj). Route-05 Lot_2 Old ferry ghat area of Ashuganj	BRWTP-S1A field team with Anwar Haider (S1A Dredging Expert) & Contractor personnel
16	25.01.2025	Meeting with UNO of Ashuganj Upazila for Excavation programme at Ashuganj Cargo Terminal Area. (Old ferry ghat area of Ashuganj)	Meghna (Ashuganj to Munshiganj). Route-05 Lot_2	BRWTP-S1A After getting approval of UNO Excavation work starts from 10:00 AM.
17	26.01.2025	Monitoring Hydrographic Survey at Ashuganj Cargo Terminal Area.	Meghna (Ashuganj to Munshiganj). BRWTP-S1A, Route-05 Lot_2	Routine Survey with Sonar machine. Masum Billah and team
18	27.01.2025	Meeting with UNO of Nabinagar Upazila for dredging programme.	Meghna (Bancharampur-Homna Loop). Route-09	BRWTP-S1A
19	28.01.2025	Meeting with Assistant Commissioner (Land) of Daudkandi Upazila for dredging & Dyke selection process.	Gumti(Meghna loop approaching Dautkandi). Route-11 Lot_2	BRWTP-S1A
20	29.01.2025	Meeting with UNO sir of Nabinagar Upazila for dredging programme.	Meghna (Bancharampur-Homna Loop). Route-09	BRWTP-S1A
21	28.01.2025	Environmental data Collection	Meghna (Ashuganj to Munshiganj). BRWTP-S1A, Route-05 Lot_2	BRWTP-S1A, Lot_2
22	29.01.2025	Environmental data Collection	Meghna (Ashuganj to Munshiganj). BRWTP-S1A, Route-05 Lot_2	BRWTP-S1A, Lot_2

Table 2: Field Movement Lot-3 January, 2025

Serial No.	Date	Activity	Route name & Route number	Remarks
1	03. 01. 2025	Visit Daily Dredging Progress	Bheduria-Laharhat (Route no. 21)	BRWTP-W1A-Lot-3 (Dharti - Banga JV)
2	06. 01. 2025	Visit Daily Dredging Progress	Bheduria-Laharhat (Route no. 21)	BRWTP-W1A-Lot-3 (Dharti - Banga JV)
3	07. 01. 2025	Hydrographic Engineering Survey	Route_16 (Patarhat to Elisha)	BRWTP-W1A-Lot-3 (Dharti - Banga JV)
4	15.01.2025	New disposal area visits and discussion/meeting with local people at Alubazar.	Route number 16 (Patarhat-Bheduria)	New Disposal Area Dyke no.05
5	16.01.2025	Engineering survey work done for lot 3	Route 16, (Patarhat-Bheduria)	BRWTP-W1A-Lot-3 (Dharti - Banga JV)
6	16.01.2025	Engineering survey work done for lot 3	Route 13, (Athazar-Alubazar-Horina)	BRWTP-W1A-Lot-3 (Dharti - Banga JV)
7	16.01.2025	Daily Dredging Progress	Bheduria-Laharhat (Route no. 21)	BRWTP-W1A-Lot-3 (Dharti - Banga JV)
8	17.01. 2025	Daily Dredging Progress	Bheduria-Laharhat (Route no. 21)	BRWTP-W1A-Lot-3 (Dharti - Banga JV)
9	17. 01. 2025	Daily Dredging Progress	Elisha-Patarhat (Route no. 16)	BRWTP-W1A-Lot-3 (Dharti - Banga JV), Banga Shitalakkhya
10	19. 01. 2025	Daily Dredging Progress	Bheduria-Laharhat (Route no. 21)	BRWTP-W1A-Lot-3 (Dharti - Banga)
11	19. 01. 2025	Daily Dredging Progress	Elisha-Patarhat (Route no. 16)	BRWTP-W1A-Lot-3 (Dharti - Banga JV)
12	20. 01. 2025	Daily Dredging Progress	Bheduria-Laharhat (Route no. 21)	BRWTP-W1A-Lot-3 (Dharti - Banga JV)
13	20. 01. 2025	Daily Dredging Progress	Elisha-Patarhat (Route no. 16)	RWTP-W1A-Lot-3 (Dharti - Banga JV)
14	21.01. 2025	Daily Dredging Progress	Elisha-Patarhat (Route no. 16):	BRWTP-W1A-Lot-3 (Dharti - Banga JV)
15	22. 01. 2025	Daily Dredging Progress	Elisha-Patarhat (Route no. 16)	BRWTP-W1A-Lot-3 (Dharti - Banga JV)
16	23. 01. 2025	Daily Dredging Progress	Elisha-Patarhat (Route no. 16)	BRWTP-W1A-Lot-3 (Dharti - Banga JV)
17	24. 01. 2025	Daily Dredging Progress	Elisha-Patarhat (Route no. 16)	BRWTP-W1A-Lot-3 (Dharti - Banga JV)
18	25.01.2025	Daily Dredging Progress:	Elisha-Patarhat (Route no. 16)	BRWTP-W1A-Lot-3 (Dharti - Banga JV)
19	25. 01. 2025	Daily Dredging Progress	Bheduria-Laharhat (Route no. 21)	BRWTP-W1A-Lot-3 (Dharti - Banga JV)
20	26. 01. 2025	Daily Dredging Progress	Elisha-Patarhat (Route no. 16)	BRWTP-W1A-Lot-3 (Dharti - Banga JV)

ANNEX IV:

The Progress and Status of Dike and Selected Disposal Areas

Lot-2

Table 1: Status of Good Faith Agreements (GFA) for Phase-I Capital Dredging, Lot 2 (74 Dike)

Dyke no.	Route No	Land Owner		Land			Good Faith Agreements
		Name and NID	Address	Description	Quantity (Decimal)	Quality of Land	
D1	9	Md. Monir Hossain NID: 6447046241	Village: Joy Nagar Upazila: Bancharampur	Plot No: 1117.1118, 10, 65, 1016, Mouza: Jay Nagar	95	Agriculture Land (Two Crops)	Done
D2	9	Siblu Mia NID:1210488091772	Village: Imam Nagar Upazila: Bancharampur	Plot No:158, 155, 166, 147. Mouza: Imam Nagar	270	Agriculture Land (Two Crops)	Done
D3	9	Md. Afzal Hossain NID:1210488092232	Village: Joy Nagar Upazila: Bancharampur	Plot No: 461, 711, 712, 713, 714, 715 1016. Mouza: Jay Nagar	150	School and School Field	Done
D4	9	Md. Monzur Mahabub NID: 1210488092428	Village: Imam Nagar Upazila: Bancharampur	Plot No:3473, 3474 Mouza: Imam Nagar	55	Agriculture land (One crop)	Done
D5	9	Jharna Begum NID:5546582981	Village: Barail Upazila: Nabinagar	Plot No: 316, 318, 397, 399, 314, 315, 401 Mouza: Borail.	132	Agriculture land (Two Crops)	Done
D6	9	Md. Dostogir NID:7813941536	Village: Barail Upazila: Nabinagar.	Plot No: 326, 353,314, 622, 312, 126, 319, 320, 321, 334 Mouza: Borail,	141	Agriculture land (Two Crops)	Done
D7	9	Monir Hossain NID:12104880921009	Village: Imam Nagar Upazila: Bancharampur	Plot No.127 Mouza: Imam Nagar.	40	Agriculture land (Two Crops)	Done
D8	9	Abdus Salam NID: 1210488089240	Village: Aka Nagar Upazila: Bancharampur	Plot No.6021, 5622, 5627, 6620, 3277 Mouza: Aka Nagar.	90	Agriculture land (Two Crops)	Done
D9	9	Md. Zakir Hossain NID: 2693016135957	Village: Aka Nagar Upazilla: Bancharampur	Plot No. 2611, 2612, 6036 Mouza: Aka Nagar.	139	Agriculture land (Two Crops)	Done
D10	9	Md. Alamgir Kabir. NID:	Village: Nilukhi	Plot no. 455. Mouza: Borail	52	Agriculture land (Two Crops)	Done
D11	9	Md. Kabir Hossain. NID: 10488088336	Village: Aka Nagar Upazilla: Bancharampur	Plot no. 5972/ 5380/5984 Mouza: Aka Nagar, Bancharampur,	139	Agriculture land (Two Crops)	Done
D12	9	Md. Nazrul Islam. NID: 8705507518	Village: Aka Nagar Upazila: Bancharampur	Plot no. 3053, Mouza: Aka Nagar.	50	Agriculture land (One Crop)	Done
D13	9	Md. Monirul Islam. NID: 8672153577	Village: Aka Nagar Upazila: Bancharampur	Plot no. 2422, 2423, 2412, 2417, 2424, 2425 Mouza: Aka Nagar.	190	Agriculture land (Two Crops)	Done
D14	9	Md. Salek Mia. NID: 7385849111 Mbl:01985708570	Village:Akanagar Union: Salimganj Upazila:Bancharampur District: Brahman Baria	Mouza: Akanagar, Plot no. 2948/2149/2150/ 2151/2152, BS-642 JL no. 13.	24	Agriculture land (One Crop)	Done

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Dyke no.	Route No	Land Owner		Land			Good Faith Agreement
		Name and NID	Address	Description	Quantity (Decimal)	Quality of Land	
D15	9	Abdul Halim NID: 2366199863 Mbl: 01819160113	Village:Akanagar Union: Tezkhali Upazila:Bancharampur District: Brahman Baria	Mouza: Akanagar, Plot no. 3395,3396 BS-khatian no. 496 JL no. 13.	67	Agriculture land (One Crop)	Done
D16	9	Md. Riazul Islam NID: 5533130141	Village: Joykalipur Upazila: Bancharampur	Plot no. CS 1370, BS 3002-3003, mouza: Borail	52	Agriculture land (One Crop)	Done
D17	9	1.Babul Mia NID:5546760314 2.Rakat Ali NID:9132515710 3.Nobi Mia NID:5996942016	Village: Nilukhi Union: Solimgonj Upazila:Nabinagar District: Brahman Baria	Plot no. CS/SA 1373/1374, BS 3007, Mouja: Borail	90	Agriculture land (One Crop)	Done
D18	9	Kader Miah NID: 1210488088731 Mbl: 01712830171	Village:Akanagar Union: Tejkhal Upazila:Bancharampur District: Brahman Baria	Mouza: Akanagar, Plot no. 2948/2149/2150/2151/2152, BS 650-JL no. 13.	192	Agriculture land (One Crop)	Done
D19	9	Md. Kabir Hossain NID: 1210488087685 Mbl: 01789160113	Village:Akanagar Union: Tejkhal Upazila:Bancharampur District: Brahman Baria	Mouza: Akanagar, Plot no. 2948/2149/2150/2151/2152, BS-642 JL no. 13.	32	Agriculture land (One Crop)	Done
D20	9	1.Jasim Uddin NID: 7798370685 Mbl: 01717531207 2.Oli Mia NID: 9152173382 Mbl: 01720322353	Village: Bishnursmpur Union: Bishnursmpur Upazila:Bancharampur District: Brahman Baria	Mouza: Bishnursmpur, SA Khatian: 11, Plot no: 298,1428,1646,1655,1654, JL No 43	59	Agriculture land (One Crop)	Done
D21	9	Safar Ali NID: 2398388328 Mbl: 0191438148	Village:Akanagar Union: Tejkhal Upazila:Bancharampur District: Brahman Baria	Mouza: Akanagar, SA Khatian: 3610, Plot no: 3456,3460 JL No. 13	75	Agriculture land (One Crop)	Done
D22	9	Md. Milon Mia NID: 7348365565 Mbl: 01321822727	Village:Bahirchar Union: Tejkhal Upazila:Bancharampur District: Brahman Baria	Mouza: Bahir char SA Khatian: 556, Plot no: 613,857 JL No. 41	84	Agriculture land (One Crop)	Done
D23	9	1.Alomgir Hossain NID: 19781210488000039 Mbl: 01741735087 2. Md. Borhan Uddin NID: 1210488095770	Village: Bishnursmpur Union: Tezkhali Upazila:Bancharampur District:	Mouza: Bahirchar SA Khatian: 860,380 Plot no: 821,621,711,622,624,810,1070,623,626,710,711,1179 JL No. 41	119	Agriculture land (One Crop)	Done
D24	9	Aminul Islam (Liton) NID: 9917405796	Village: Bishnursmpur Union:	Mouza: Bishnursmpur SA Khatian: 92 Plot no: 1209,1205,1439,1430	120	Agriculture land (One Crop)	Done

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Dyke no.	Route No	Land Owner		Land			Good Faith Agreement
		Name and NID	Address	Description	Quantity (Decimal)	Quality of Land	
		Mbl: 01310822838	Bishnursmpur Upazila: Bancharampur District: Brahman Baria	JL No. 40			
D25	9	Ilias Miaz NID: 19921216488000130 Mbl: 01985728652	Village: Bishnursmpur Union: Tezkhali Upazila: Bancharampur District: Brahman Baria	Mouza: Bishnursmpur SA Khatian: 172, Plot no: 1308,1497,1448,427,1105 JL No 43	174	Agriculture land (One Crop)	Done
D26	9	1. Gazi Kawsar NID: 3298455597 Mbl: 01713685001 2. Gazi abdu Salam NID: 2398479119 Mbl: 01740956081 3. Md. Zakir Hossain NID: 7348561049 Mbl: 01713585112 4. Chandra Kumar Das NID:	Village: Aka Nagar Union: Tezkhali Upazila: Bancharampur District: Brahman	Mouza No: Aka Nagar SA Khatian: 3921,4096,3941 Plot No: 5760,5705,5707,5790,6370,6698,5744,5711,5384,5715 J L No 13	310	Agriculture land (One Crop)	Done
D27	9	Md. Hanif NID: 5501395304 Mbl: 01717531207	Village: Bishnurampur Union: Bishnurampur Upazilla: Bishnurampur District: Brahman Baria.	Mouza: Bishnurampur SA Khatian: 894, Plot no. 108,111 Khatian No. 860/380 JL No. 41	154	Agriculture land (One Crop)	Done
D28	9	Habib Ulla NID: 2398391876 Mbl: 01817506254	Village: Bahirchar Union: Bishnurampur Upazila: Bancharampur District: Brahman Baria.	Mouza. Bahirchar Plot no. 603,714,1152,1545 Khatian No: 92 JL No: 41	79	Agriculture land (One Crop)	Done
D29	9	Abu Kalam NID: 1948451222 Mbl: 01985708523	Village: Bahirchar Union: Tezkhali Upazila: Bancharampur District: Brahman Baria.	Mouza. Bahirchar Plot no. 904, 608, 752, 1227 Khatian No: 617, 1487 JL No: 41	89	Agriculture land (One Crop)	Done
D30	9	1. Md. Farid Mia NID: 3298435581 Mbl: 01317622313 2. Abdul Wahab NID: 6894609699 Mbl: 01735786521	Village: Bahirchar Union: Tezkhali Upazila: Bancharampur District: Brahman Baria.	Mouza. Bahirchar Plot no. 119,1084,415 Khatian No: 551,61,108 JL No: 41	88	Agriculture land (One Crop)	Done
D31	9	Moin Uddin NID: 3748368614 Mbl: 01817506254	Village: Bahirchar Upazila: Bancharampur District: Brahman Baria.	Mouza. Bahirchar Plot no. 1134,1138,1135,18,1052 Khatian No: 217,541 JL No: 41	85	Agriculture land (One Crop)	Done

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Dyke no.	Route No	Land Owner		Land			Good Faith Agreement
		Name and NID	Address	Description	Quantity (Decimal)	Quality of Land	
D32	9	Ali Ahammad Sarker NID: 3747074718 Mbl: 01715046233	Village: Nilokhi Union: Salimganj Upazila:Nabina gar District: Brahman Baria.	Mouza. Nilokhi Plot no. 1134,1138,1135,18,1052 Khatian No: 24/1, 106/1 JL No: 236	214	Agriculture land (One Crop)	Done
D33	9	1.Rasel Mia NID: 1947127799 Mbl: 01738424077 2.Parul Begum NID: 1210488095296 Mbl: 01735786521 3. Sova Akter NID: 8707793660 Mbl: 01735786521	Village: Nilokhi Union: Salimganj Upazila:Nabina gar District: Brahman Baria.	Mouza. Nilokhi Plot no. 1172,1208,1209,1199,1163,1198, 1170,1200,1232 Khatian No: 950, 992 JL No: 05	170	Agriculture land (One Crop)	Done
D 34	9	1. Md. Billal NID: 2398523114 Mbl: 01725835721 2. Arfat Ali NID:8257731771 Mbl: 01985789351	Village: Bahir Char Union: Tezkhali Upazila:Banch arampur District: Brahman Baria.	Mouza. Bahirchar Plot no. 25/400,217/652,268/418,628,708 Khatian No: 209,74 JL No: 41	84	Agriculture land (One Crop)	Done
D 35	9	1.Abdul Awal NID: 3746376999 Mbl: 01918578062 2.Abul Kalam NID: 8695983695 Mbl:01716592411 3.Abu Ishaq NID: 3712971580 Mbl: 01719834733 4.Nasir Uddin NID: 5546582717	Village: Barail Upazila:Nabina gar District: Brahman Baria.	Mouza. Barail Plot no. 1590,3267,3144,3274,3515,1802, 1803 Khatian No: 544,163,1560 JL No: 04	113	Agriculture land (One Crop)	Done
D 36	9	1.Abdul Mannan NID: 8248455720 Mbl: 01738424077 2.Md. Jalal Mia NID: 4648465153 Mbl: 01735786521 3. Tazul Islam NID: 9173793036 Mbl: 01735786521	Village: Bahir Char Union: Tezkhali Upazila:Banch arampur District: Brahman Baria.	Mouza. Bahirchar Plot no. 1286,1351,1649,144,1563,127 Khatian No: 549,600,996 JL No: 41	140	Agriculture land (One Crop)	Done
D37	9	Md. Swapon Mia NID: 8248495528 Cel: 01753828096	Village: Bahirchar Union: Tezkhali Upazila:Banch arampur, District: Brahman Baria.	Mouza No. Bahirchar Khatian No: 530/616/1464 Plot: 553/552/554 JL No:41	60	Agriculture land (One Crop)	Done
D38	9	1.Md. Nazim NID: 2421516085 Mbl: 01733123741 2. Apel Mahmud NID: 4201400373 Mbl: 01958705623 3. Aynal Hoque NID: 5554116691 Mbl: 01815237615 4. Abu Musa	Village: Bahirchar Union: Tezkhali Upazila:Banch arampur District: Brahman Baria.	Mouza No. Bahirchar Khatian No: 751/439/120/889/743/70 Plot: 1282/1284/1285/1283/957/1641/2 221/955/1502/985/984 JL No:41	173	Agriculture land (One Crop)	Done

Consultancy Services for: Supervision and Monitoring of Performance-Based Dredging Contracts with Maintenance Dredging and Installation and Maintenance of Navigational Aids along the Navigational Routes under the Contract

Dyke no.	Route No	Land Owner		Land			Good Faith Agreement
		Name and NID	Address	Description	Quantity (Decimal)	Quality of Land	
		NID: 6448345691 Mbl: 01712578351 5. Mst. Razia khatun NID: 2848376618 Mbl: 01735892711 6. Marfot Ali NID: 19761210488000018 Mbl: 01928705721 7. Abdul Mannan NID: 7812888217 Mbl: 01789256722					
D 39	9	Abu Sayem NID: 6890355958 Mbl: 01712853510	Village: Kadoir Union: Salimganj Upazila:Nabina gar District: Brahman Baria.	Mouza No. Kadoir Khatian No: 591 Plot: 421 JL No:63	50	Agriculture land (One Crop)	Done
D 40	9	Md. Jalu Mia NID: 4155505789 Mbl: 01712892751	Village: Bahirchar Union: Tezkhali Upazila:Banch arampur District: Brahman Baria.	Mouza No. Bahirchar Khatian No: 709 Plot: 440 JL No:41	100	Agriculture land (One Crop)	Done
D 41	9	1.Md. Kamal Mia NID: 7347275260 Mbl: 01724532687 2.Abdul Karim NID: 2397556354 Mbl: 01716161185	Village: Kadoir Union: Tezkhali Upazila:Banch arampur District: Brahman Baria.	Mouza No. Bahirchar Khatian No: 706 Plot: 486/350/352 JL No:10	111	Agriculture land (One Crop)	Done
D 42	9	1.Mst. Jahanara NID: 1210488096760 Mbl: 01986218781	Village: Nilokhi Union: Salimganj Upazila:Nabina gar District: Brahman Baria.	Mouza No. Nilokhi Khatian No: 262 Plot: 1129/1 JL No:05	31	Agriculture land (One Crop)	Done
D 43	9	1.Shakel Ahmed NID: 2. Sazzad Ahmed NID: Mbl: 3. Md. Alomgir NID: 2397009727 4. Rezaul Karim NID: 6455341013 5. Ziaul Karim NID: 5983496109 Mbl: 6. Fazlul Karim NID: 9132487969	Village: Badda Dakkhin Para Union: Salimganj Upazila:Nabi nagar District: Brahman Baria.	Mouza No. Char Badda Khatian No: 1154/191/986 Plot: 486/350/352 JL No:14	197	Agriculture land (One Crop)	Done
D 44	9	1. Md. Alomgir NID: 2397009727 2. Rezaul Karim NID: 6455341013 3. Ziaul Karim NID: 5983496109 Mbl: 01713018040 4. Fazlul Karim	Village: Badda Dakkhin Para Union: Salimganj Upazila:Nabina gar District: Brahman Baria.	Mouza No. Jolli Khatian No: 175/1453 Plot: 122/233/325/ JL No:16	140	Fallow Pond	Done

Consultancy Services for: Supervision and Monitoring of Performance-Based Dredging Contracts with Maintenance Dredging and Installation and Maintenance of Navigational Aids along the Navigational Routes under the Contract

Dyke no.	Route No	Land Owner		Land			Good Faith Agreement
		Name and NID	Address	Description	Quantity (Decimal)	Quality of Land	
		NID: 9132487969					
D 45	9	1. Md. Alomgir NID: 2397009727	Village: Badda Dakkhin Para Union: Salimganj Upazila:Nabinagar District: Brahman Baria.	Mouza No. Jolli Khatian No: 1657 Plot: 291 JL No:16	22	Agriculture land (One Crop)	Done
D 46	9	Md. Jalu Mia NID: 4155505789 Mbl: 01712892751	Village: Bahirchar Union: Tezkhal Upazila:Bancharampur District: Brahman Baria.	Mouza No. Bahirchar Khatian No: 111 Plot: 222/223/577/496 JL No:41	97	Agriculture land (One Crop)	Done
D 47	9	1. Md. Abu Hanif NID: 7305030772 Mbl: 01712892751 2. Sohrab Hossain NID: 1975871797 Mbl: 01728356911	Village: Kadoir Union: Salimganj Upazila:Nabinagar District: Brahman Baria.	Mouza No. Kadoir Khatian No: 342 Plot: 438 JL No:10	68	Agriculture land (One Crop)	Done
D 48	9	1. Kamrul Hasan NID: 19791218575000030 Mbl: 01716161185 2. Jaman Uddin NID: 2361962059 Mbl: 01859278912 3.Moshen Mia NID: 5107234883 Mbl: 01713925813 4.Dulal Mia NID: 7347018397 Mbl: 01712830195 5.Baijid Hasan NID: 5107234883 Mbl: 01915830112 6.Abdul Motin NID: 1218588035697 Mbl: 01913592311 7.Hanif Mia NID: 19701218575000009 Mbl: 01713925813	Village: Char Badda Union: Salimganj Upazila:Nabinagar District: Brahman Baria.	Mouza No.Char Badda Khatian No: 404/344/160/606/557/605 Plot: 1531/1502/1537/860/941/1282/1530/1531/1551/288/289/316/493/1567 JL No:14	200	Agriculture land (One Crop)	Done
D 49	9	1.Kamal Uddin NID: 9148394498 Mbl: 01602208686 2.Forkan uddin NID: 1948433175 Mbl: 01711180780 3.Abdul Hashim NID: 8248455555 Mbl: 01733113742 4.Parul Begum NID: 4201436906 Mbl: 01716497968 5.Ismail Mia NID: 1523786984 Mbl: 01913777071 6.Amir Hossain	Village: Bahir Char Union: Tezkhal Upazila:Bancharampur District: Brahman Baria.	Mouza No. Bahir Char Khatian No: 392/320/707/273/514/1071 Plot: 1105/617/1104/411/496/1111/1110 JL No:41	179	Agriculture land (One Crop)	Done

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Dyke no.	Route No	Land Owner		Land			Good Faith Agreement
		Name and NID	Address	Description	Quantity (Decimal)	Quality of Land	
		Passport:0538242 Mbl: 01712835771 7.Farid NID: 3322198205 Mbl: 01852892821					
D 50	9	1.Abul Kashem NID: 2398411542 Mbl: 01708665453 2.Humayun Kobir NID: 1210436157748 Mbl: 01983460221	Village: Moddho Nagar Moddho Nagar Union: Choyfullah Kandi Upazila:Nabina gar District: Brahman Baria.	Mouza No. Moddho Nagar Khatian No: 1054/1485 Plot: 1105/617/1104/411/496/1111/1110 JL No:38	193	Agriculture land (One Crop)	Done
D 51	9	1.Murshid Mia NID: 3296986155 Mbl: 01852897257 2.Dulal Mia NID: 1218575054223 Mbl: 01719835021 3.Lal Chand Passport: 0363728 Mbl: 01719478351	Village: Char Badda Char Badda Union: Salimganj Upazila:Nabina gar District: Brahman Baria.	Mouza No. Char Badda Khatian No: 525/263/675 Plot: 210/211/39/68 JL No:68	130	Agriculture land (One Crop)	Done
D 52	9	Shahin NID: 19821218575000021 Mbl: 01734532462	Village: Bandey Bahir char Bandey Bahir char Union: Salimganj Upazila:Nabina gar District: Brahman Baria.	Mouza No. Char Badda Khatian No: 1118 Plot: 26 JL No:14	32	Agriculture land (One Crop)	Done
D 53	9	Md. Monirul Islam NID: 8672153577 Mbl: 01711175171	Village: Joy Nagar Joy Nagar Union: Salimganj Upazila:Nabina gar District: Brahman Baria.	Mouza No. Joy Nagar Khatian No:1154 Plot: 2374 JL No:11	75	Agriculture land (One Crop)	Done
D 54	9	Abdur Razzak NID: 9574183696 Mbl: 01747343757	Village: Bishnurampur Bishnurampur Union: Tezkhali Upazila:Banch arampur District: Brahman Baria.	Mouza No. Bishnurampur Khatian No:1154 Plot: 1594 JL No:01	86	Fallow Land	Done
D 55	9	Shahjalal NID: 8242023813 Mbl: 01625888695	Village: Bishnurampur Bishnurampur Union: Tezkhali Upazila:Banch arampur District: Brahman Baria.	Mouza No. Bishnurampur Khatian No:386 Plot: 1550 JL No:40	73	Fallow Land	Done
D 56	9	1.Abul Kashem NID: 2398411542 Mbl: 01708665453 2.Humayun Kobir NID: 1210436157748 Mbl: 01983460221	Village: Moddho Nagar Moddho Nagar Union: Choyfullah Kandi Upazila:Nabina gar District:	Mouza No. Moddho Nagar Khatian No: 1054/1485 Plot: 1105/617/1104/411/496/1111/1110 JL No:38	193	Agriculture land (One Crop)	Agreement will be done by District administration

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Dyke no.	Route No	Land Owner		Land			Good Faith Agreement
		Name and NID	Address	Description	Quantity (Decimal)	Quality of Land	
			Brahman Baria.				
D 57	9	1.Murshid Mia NID: 3296986155 Mbl: 01852897257 2.Dulal Mia NID: 1218575054223 Mbl: 01719835021 3.Lal Chand Passport: 0363728 Mbl: 01719478351	Village: Char Badda Union: Salimganj Upazila:Nabina gar District: Brahman Baria.	Mouza No. Char Badda Khatian No: 525/263/675 Plot: 210/211/39/68 JL No:68	130	Agriculture land (One Crop)	Agreement will be done by District administration
D 58	9	Md. Shahin NID: 19821218575000021 Mbl: 01734532462	Village : Bandey Bahir char Union : Salimganj Upazila:Nabina gar District: Brahman Baria.	Mouza No. Char Badda Khatian No: 1118 Plot: 26 JL No:14	32	Agriculture land (One Crop)	Agreement will be done by District administration
D 59	9	Md. Monirul Islam NID: 8672153577 Mbl: 01711175171	Village: Joy Nagar Union: Salimganj Upazila:Nabina gar District: Brahman Baria.	Mouza No. Joy Nagar Khatian No:1154 Plot: 2374 JL No:11	75	Agriculture land (One Crop)	Agreement will be done by District administration
D 60	9	Abdur Razzak NID: 9574183696 Mbl: 01747343757	Village: Bishnurampur Union: Tezkhali Upazila:Banch arampur District: Brahman Baria.	Mouza No. Bishnurampur Khatian No:1154 Plot: 1594 JL No:01	86	Fallow Land	Agreement will be done by District administration
D 61	9	Shahjalal NID: 8242023813 Mbl: 01625888695	Village: Bishnurampur Union: Tezkhali Upazila:Banch arampur District: Brahman Baria.	Mouza No. Bishnurampur Khatian No:386 Plot: 1550 JL No:40	73	Fallow Land	Agreement will be done by District administration
D 62	9	Md. Aktar Hossain NID: 3725002590 Mbl: 01605208355	Village: Tezkhali Union: Tezkhali Upazila:Banch arampur District: Brahman Baria.	Mouza No. Tezkhali Khatian No: 1852 Plot: 430/688/960/972/482 JL No: 42	120	Agriculture land (One Crop)	Done
D 63	9	Md. Ashikul Islam NID: 3268311275 Mbl: 01855997070	Village: Tezkhali Union: Tezkhali Upazila:Banch arampur District: Brahman Baria.	Mouza No. Tezkhali Khatian No: 1852 Plot: 430/688/960/972/482 JL No: 42	120	Agriculture land (One Crop)	Done
D 64	9	Md. Masud NID: 4197522263 Mbl: 01625888695	Village: Noyar char Union: Salimganj	Mouza No. Noyar char Khatian No: 689 Plot: 366/422/645/389 JL No: 67	62	Agriculture land (One Crop)	Done

Consultancy Services for: Supervision and Monitoring of Performance-Based Dredging Contracts with Maintenance Dredging and Installation and Maintenance of Navigational Aids along the Navigational Routes under the Contract

Dyke no.	Route No	Land Owner		Land			Good Faith Agreement
		Name and NID	Address	Description	Quantity (Decimal)	Quality of Land	
			Upazila: Nabinagar District: Brahman Baria.				
D 65	9	Anowar Hossain Raza NID: 1948336233 Mbl: 01625888695	Village: Bishnurampur Union: Bishnurampur Upazila: Bancharampur District: Brahman Baria.	Mouza No. Bishnurampur Khatian No: 315 Plot: 365/254/423/546/259/121 JL No: 39	270	Agriculture land (One Crop)	Done
D 66	9	Md. Kawsar NID:	Village: Khalla Union: Choyfullakandi Upazila: Bancharampur District: Brahman Baria.	Mouza No. Khalla Khatian No: 1394 Plot: 4662 JL No: 1418	95	Agriculture land (One Crop)	Agreement will be done by District administration
D 67	7&8	1.Hafiz Mia NID: 6816020733136 2.Abu Kashed Mia NID: 6816020432149 3.Abul Kashem NID: 5501734684 4.Nuru Mia NID: 8218914904 5.Sushil Chandra Sutradhar NID: 6816020732471 Mbl: 01794391918, 01712766109	Village: Birgaon Union: Alokballi Upazila:Narsingdi gdi Sadar District: Narsingdi	Mouza: Char Madhobpur SA Khatian No: 425/2010/2051 CS Plot No: 4212, 4219, 4262, 4341, 10070, 10037, 13062, 10064, 10062, 10061, 10091, 10204, 9689, 9690, 9653, 10079, 10056, 10205, 9798, 10118, 10111, 10114 JL No: 73, 62, 52	677	About 70% Fallow Land and 30% Agriculture land (One Crop)	Done
D 68	7&8	Md. Delwar Hossain NID: 9550769062 Mbl: 01712766109	Village: Bakhor nagar Union: Alokballi Upazila:Narsingdi gdi Sadar District: Narsingdi	Mouza: Char Madhobpur SA Khatian No: 8723/4356/4126/4247 SA Plot No: 7879,7915,7880,8793,7891,7960, 7961,9730,9731,9732,8730,896,7 496,7494,9756, 9757, 9727,9730, 9731, 9732,8726, 8743, 7891, 8793,7886, JL No: 62	328	Fallow Land	Done
D 69	7&8	Hazrat Ali NID: 7822420450 Mbl: 01935205783	Village: Birgaon Union: Alokballi Upazila:Narsingdi gdi Sadar District: Narsingdi	Mouza: Char Madhobpur CS Khatian No: 122 SA Plot No: 12458/12466/12485 JL No: 52	91	Agriculture land (One Crop)	Done
D 70	7&8	1. Sukkur Ali NID: 4151539675 Mbl: 01987608661 2. Jahangir Alom NID: 2360551242 3. Md. Milon Kha NID: 4601748173	Village: Sat para Union: Alokballi Upazila:Narsingdi gdi Sadar District: Narsingdi	Mouza: Char Madhobpur CS Khatian No: 3024/26/2068/98/4150 SA Plot No: 1841/7865/7877/7262/7869/7499/ 1815/1817/2089/7878/7885 JL No: 62	180	Agriculture land (One Crop)	Done

Consultancy Services for: Supervision and Monitoring of Performance-Based Dredging Contracts with Maintenance Dredging and Installation and Maintenance of Navigational Aids along the Navigational Routes under the Contract

Dyke no.	Route No	Land Owner		Land			Good Faith Agreement
		Name and NID	Address	Description	Quantity (Decimal)	Quality of Land	
D 71	7&8	1. Md. Sheikh Farid NID: 6816020734834 Mbl: 01765-995824 2. Rezon Mia NID: 7358087984 Mbl: 01677556624	Village: Sat para Union: Alokballi Upazila: Narsingdi Sadar District: Narsingdi	Mouza: Char Madhobpur CS Khatian No: 121 SA Plot No: 6711/6512/6706/6727/6712/7364/7369/7794/7868 JL No: 62	170	Agriculture land (One Crop)	Done
D 72	6	2. Sahad Mia NID: 1481632832 Mbl: 01855992870 2. Md. Jalal Fakir NID: 5851625392 Mbl: 01759252667	Village: Char Modhua Union: Char Modhua Upazila: Roypura District: Narsingdi	Mouza: Char Modhua CS Khatian No: 637 SA Plot No: 1062/1011/894/1131/42/131/806/811/913/1042/1181/1188 JL No: 123	290	Agriculture land (One Crop)	Done
D 73	11	Abul Kasem NID: 1913621823408 Mbl: 01724340171	Village: Notun Hasnabad Union: Daud Kandi Upazila: Daud Kandi District: Cumilla	Mouza: Nando pur CS Khatian No: 44 Plot No: 158/44/41/150/67 JL No: 98	210	Agriculture land (One Crop)	Done
D 74	11	Foyez Uddin NID: 1913621824175 Mbl: 01928932815	Village: Notun Hasnabad Union: Daud Kandi Upazila: Daud Kandi District: Cumilla	Mouza: Nando pur CS Khatian No: 39 Plot No: 160/39/151/155/44 JL No: 92	293	Agriculture land (One Crop)	Done
74 dikes	04 River Routes				Total Land 9,669 (Decimal)		

Note: 1. This list will be updated from time to time including the dredged soil volume disposed in the dike and the amount of revenue deposited to the government treasury.

Lot-3

Table 2: Status of Good Faith Agreements (GFA), Lot 3 (23 Dike), Phase-I

Dike no.	Route No	Land Owner		Land			GFA
		Name and NID	Address	Description	Quantity (Decimal)	Quality of Land	
D 01	21	Salam Fakir NID: 8223014047 Mbl # 01766-138946	Village: Ghagoria Union: Ghagoria Upazila: Mehendiganj District: Barishal	Mouza: Ghagoriya. Plot no. 1901/56	200	Agriculture land (One Crop)	Done
D 02	21	Mizan Fakir NID: 6860475422 Mbl # 01712-878285	Village: Bheduriya Union: Bhola Sadar Upazila: Bhola Sadar District: Bhola	Mouza: Bheduria Plot no. 1901/28	120	Agriculture land (One Crop)	Done
D 03	21	Salam Fakir NID: 8223014047 Mbl # 01766-138946	Village: Ghagoria Union: Ghagoria Upazila: Mehendiganj District: Barishal	Mouza: Ghagoriya. Plot no. 1901/56	224	Agriculture land (One Crop)	Done
D 04	21	Jahangir Hossain NID: Mbl # 01620-487692	Village: Shreipur Union: Mehendiganj Upazila: Mehendiganj District: Barishal	Mouza: Ghagoriya. Plot no. 1501	80	Agriculture land (One Crop)	Done

Consultancy Services for: Supervision and Monitoring of Performance-Based Dredging Contracts with Maintenance Dredging and Installation and Maintenance of Navigational Aids along the Navigational Routes under the Contract

Dike no.	Route No	Land Owner		Land			GFA
		Name and NID	Address	Description	Quantity (Decimal)	Quality of Land	
D 05	21	Mizanur Rahman NID: 6860475422 Mbl # 01712-878285	Village: Ghagoria Union: Mehendiganj Upazila: Mehendiganj District: Barishal	Mouza: Ghagoriya. Plot no. 1107,1181,1182, 2123,2124,2119,2125	300	Agriculture land (One Crop)	Done
D 06	21	Nur Nabi Vhuiya NID: 616213050970 Mbl # 01846-565388	Village: Ghagoria Union: Mehendiganj Upazila: Mehendiganj District: Barishal	Mouza: Ghagoriya. Plot no. 1468 (DP Khotiyan-385, DP Plot: 4662)	355	Agriculture land (One Crop)	Done
D 07	21	Nur Nabi Vhuiya NID: 616213050970 Mbl # 01846-565388	Village: Ghagoria Union: Mehendiganj Upazila: Mehendiganj District: Barishal	Mouza: Ghagoriya. Plot no. 1479 (DP Khotiyan-385, DP Plot: 4662)	435	Agriculture land (One Crop)	yet to be done*
D 08	21	Zhariul Islam Nakib NID: 4192286039 Mbl # 01711-320785	Village: Bheduriya Union: Bhola Sadar Upazila: Bhola Sadar District: Bhola	Mouza No. Char Bheduriya Khatian No: 1319 JL No: 56	157	Agriculture land (One Crop)	yet to be done*
D 09	21	Kabi Hossain Mridha NID: 6878485082 Mbl # 01735-802399	Village: Ghagoria Union: Mehendiganj Upazila: Mehendiganj District: Barishal	Mouza No. Ghagoria Khatian No: 296 JL No: 118	1204	Agriculture land (One Crop)	yet to be done*
D 10	21	Md. Hakim uddain NID: 1928737947 Mbl # not given	Village: Bheduria Union: Bhola Sadar Upazila: Bhola Sadar District: Bhola	Did not collect yet	768	Agriculture land (One Crop)	yet to be done*
D 11	21	Ruhul amin NID: 0616213050968 Mbl # 01762-447287	Village: Shreipur Union: Mehendiganj Upazila: Mehendiganj District: Barishal	Mouza. Shreipur Survey no. 47 Khatian No: 502,525,526 JL No: 120	444	Agriculture land (One Crop)	yet to be done*
D 12	21	Harun chairman NID: Under processing Mobile # 01712-404378	Village: Shreipur Union: Mehendiganj Upazila: Mehendiganj District: Barishal	Did not collect yet	73	Agriculture land (One Crop)	yet to be done*
D 13	21	Harun chairman NID: Under processing Mobile # 01712-404378	Village: Shreipur Union: Mehendiganj Upazila: Mehendiganj District: Barishal	Did not collect yet	128	Agriculture land (One Crop)	yet to be done*
D 14	21	Mizanur Rahman Harun NID: 6860475422 Mobile # 01712-878285	Village: Shampur Union/post: Kalupur Upazila: Bhola Sadar	Did not collect yet	1017	Agriculture land (One Crop)	yet to be done*
D 15	21	Mizanur Rahman Harun NID: 6860475422 Mobile # 01712-878285	Village: Sreepur Union: Mehendiganj Upazila: Mehendiganj District: Barishal	Did not collect yet	1572	Agriculture land (One Crop)	yet to be done*
D 16	21	Kamal hossain (member) NID: Not given by contractor Mbl:	Village: Ghagoria Union: Bhola Sadar Upazila: Bhola Sadar District: Bhola	Did not collect yet	1000	Agriculture land (One Crop)	yet to be done*
D 17	21	Salam Fakir NID: 8223014047 Mbl # 01766-138946	Village: Ghagoria Union: Ghagoria Upazila: Mehendiganj District: Barishal	Did not collect yet	84	Agriculture land (One Crop)	yet to be done*
D 18	21	Harun chairman NID: under process Mbl # under process	Village: Ghagoria Union: sreepur Upazila: Mehendiganj District: Barishal	Did not collect yet	171	Agriculture land (One Crop)	yet to be done*
D 19	16	MD.Amir hossain Jomaddar NID: 8225574485 Mbl # 01718051191	Village: Sadequepur Union: Mehendiganj Upazila: Mehendiganj District: Barishal	Did not collect yet	1443	Agriculture land (One Crop)	yet to be done*
D 20	16	1. Adv. Md Khorshed NID: 7328539411 2. Adv.Md Jakir Hossain	Village: Char Mitua Union: Alimabad Upazila: Mehandiganj	Mouza: Char mohisa. Plot no. 324, 325, 326, 344, 345, 346	1294	Agriculture land (One Crop)	yet to be done*

Consultancy Services for: Supervision and Monitoring of Performance-Based Dredging Contracts with Maintenance Dredging and Installation and Maintenance of Navigational Aids along the Navigational Routes under the Contract

Dike no.	Route No	Land Owner		Land			GFA
		Name and NID	Address	Description	Quantity (Decimal)	Quality of Land	
		NID: 0616213038313 Mbl # 01770198608	District: Barishal				
D 21	13	Md. Ali Bapari NID: not given Mbl # 01739224610	Village: Narshinshopur Union: Shokhipur Upazila: Bhedorganj District: Shariotpur	Did not collect yet	574	Agriculture land (One Crop)	yet to be done*
D 22	13	Government land	Village: Lokkhir char Union: Upazila: Chandpur sadar District: Chandpur	Did not collect yet	400	Fallow Land	Govt. Land
D 23	13	1. Md. Dulal Khan NID: Not given by land owner Mbl # 01729-505858 2. Md. Monir Hossain NID: Not given by land owner Mbl # 01791-330411	Village: Narshinshopur Union: Shokhipur Upazila: Bhedorganj District: Shariotpur	Did not collect yet	446	Agriculture land (One Crop)	yet to be done*
Total dike23	Total Route 03				Total Land (Decimal) 12,469		

Note:

1. This list will be updated from time to time including the dredged soil volume disposed in the dike.

2. *: The execution of GFA is being delayed due to a dispute regarding compensation.

Table 3: Status of Good Faith Agreements (GFA), Lot 3 (06 Dike), Phase-II

Dike no.	Route No	Land Owner		Land			GFA
		Name and NID	Address	Description	Quantity (Decimal)	Quality of Land	
D 24	21	Monir, Yusuf, Salauddin, Kalam, Nasim, Nasir, Nur Islam, Junayed	Village: Ghagoria Union: sreepur Upazila: Mehendiganj District: Barishal	Did not collect yet	155	Fallow Land	Govt. Land
D 25	21	Ripon, Yasmin, Hasan, Swapon, Rafik, Alomgir, Sabuz, Rezwan, Saraz, Julhas	Village: Ghagoria Union: sreepur Upazila: Mehendiganj District: Barishal	Did not collect yet	300	Fallow Land	Govt. Land
D26	21	Md. Kalu, Md. Shahin	Village: Ghagoria Union: sreepur Upazila: Mehendiganj District: Barishal	Did not collect yet	70	Fallow Pond	Govt. Land
D27	21	Ali Hossain gong	Village: Ghagoria Union: sreepur Upazila: Mehendiganj District: Barishal	Khatian: 260, 493	900	Fallow land	Govt. Land
D 28	16	Mohammad Gazi Mbl# 01972381881	Village: Sadequepur Union: Alimabad Upazila: Mehandiganj District: Barishal	Did not collect yet	392	Govt. Land	Govt. Land
D 29	13 (Extension of the dyke no. 22)	Yunus Gazi and Md. Didar Mbl# 01722495773	Village: Narshinshopur Union: Shokhipur Upazila: Bhedorganj District: Shariotpur	Did not collect yet	150	Khas Land	Govt. Land

Consultancy Services for: Supervision and Monitoring of Performance-Based Dredging Contracts with Maintenance Dredging and Installation and Maintenance of Navigational Aids along the Navigational Routes under the Contract

Dike no.	Route No	Land Owner		Land			GFA
		Name and NID	Address	Description	Quantity (Decimal)	Quality of Land	
Total dike 06	Total Route 03				Total Land (Decimal) 1,967		

ANNEX-V:

Environmental Quality Assessment and Compliance Status for January, 2025

Table 01: Environmental Quality Assessment for January, 2025 for Lot-2

SI No.	Item	Parameters	Baseline	Route-5	S1A Remarks January 2025
			Data of Route 05 January 2023	January 2025	
1	Air Quality	SPM	140.34	196.37	*WAL
		PM10	58.34	110.48	WAL
		PM2.5	31.43	54.93	WAL
		SO2	15.29	19.21	WAL
		NO2	12.75	35.64	WAL
		CO	1.3	0.5	WAL
2	Noise Level	LEQ day	61.6	65.6	WAL
		Lmax	76	75.8	WAL
		Lmin	42.8	45.3	WAL
3	Underwater Noise Level	LAvg [dB (A)]	-	54.6	WAL
4	Surface Water Quality	Temperature	22.1	26.6	WAL
		EC	170	110	WAL
		pH	7.20	6.74	WAL
		TDS	160	54	WAL
		DO	4.5	5.9	WAL
		BOD5	10	3.5	WAL
5	Riverbed Sediment	TSS	83	122	WAL
		Lead (Pb)	9.79	14.94	WAL
		Cadmium (Cd)	0.054	0.016	WAL
		Chromium (Cr)	15.94	12.27	WAL
		Zinc (Zn)	26.32	16.91	WAL
		Arsenic (As)	1.96	2.4	WAL

*WAL=Within Approved Limit; - = Sample was not collected.

Table 02: Environmental Quality Assessment for January 2025 for Lot 3

SI No.	Item	Parameters	Baseline	Route 16	Baseline	Route 21	S1A Remarks January 2025
			Data of Route 16	January 2025	Data of Route 21	January 2025	
1	Ambient Air Polluants' Concentration in µg/m ³	SPM	170.65	70.44	165.12	67.60	WAL
		PM10	81.24	43.09	72.15	40.18	WAL
		PM2.5	42.85	20.22	47.28	19.75	WAL
		SO2	16.44	13.53	13.69	16.44	WAL
		NO2	21.40	18.68	22.18	21.45	WAL
		CO	1.1	0.9	0.6	0.7	WAL
2	Noise Level	LEQ day	53.5	72.56	62.35	65.41	WAL
		Lmax	75.7	88.32	82.53	89.90	Mixed Area.
		Lmin	32.8	37.10	39.76	35.79	WAL
3	Under Water Noise Level	LAvg [dB (A)]	-	70.4	-	65.7	WAL
4	Surface Water Quality	Temperature	22.0	24.5	24.8	24.7	WAL
		EC	280	300	290	310	WAL
		pH	7.91	7.52	7.77	7.78	WAL
		TDS	140	150	137	160	WAL
		DO	6.3	6.6	7.0	6.8	WAL
		BOD5	0.6	5.2	1.5	5.9	WAL
		TSS	29	51	86	41	WAL
		Lead	12.01	8.99	10.17	8.27	WAL

Sl No.	Item	Parameters	Baseline Data of Route 16	Route 16	Baseline Data of Route 21	Route 21	S1A Remarks January 2025
				January 2025		January 2025	
5	Riverbed Sediment	Cadmium	0.058	0.064	0.054	0.067	WAL
		Chromium	17.14	19.78	12.76	20.09	WAL
		Zinc	38.65	30.45	23.48	33.99	WAL
		Arsenic	2.01	2.46	1.57	2.40	WAL
6	Dredge Material	Lead	-	10.42	-	10.38	WAL
		Cadmium	-	0.081	-	0.073	WAL
		Chromium	-	29.09	-	28.88	WAL
		Zinc	-	35.03	-	40.13	WAL
		Arsenic	-	3.19	-	3.87	WAL

*WAL=Within Approved Limit.

Table 3: Compliance Status for December 2024 for Lot-2

Visual Monitoring Compliance								
Potential Aspects	Description	EMP Measures (Proposed in the EIA)	Measures Already Implemented	Compliance Status			Remarks/ Recommendation	Recommended deadline for implementing the corrective measures
				C	P	N		
Aquatic Flora & Fauna including Plankton, Benthos, fish, dolphin	During the reporting month, twenty-three (23) species of fish and two (02) species of crustaceans were observed in the surveyed routes with no fish mortality recorded	Mitigation measures not required	No mitigation measure was suggested by the Lot 2 monitoring team.	-	P	-	Lot 2 and Lot 3 ESHS staff were advised to be physically present while dredging is ongoing to give more effort and to spend more time on regular monitoring of the habitat and biodiversity	
Sediment Dispersion	Not measured	-	-	-	-	N	Contractors were notified to measure sediment plume on the 1st of March 2023, followed by verbal instruction and reminder emails	No action taken or data provided by the contractors yet. Will be reminded again.
Riverbank Erosion	There were no issues regarding riverbank erosion or flooding.	Dredger stopped and relocated	Dredger stopped and relocated some protection measures taken	C	-	-	Stop dredging and relocate	Recommended reporting to the authorities and stop dredging
Hydrological Conditions	Surveyed before dredging			C				
Drainage Congestion	No remarkable congestion was observed at the dredged material disposal sites.			-	P	-	No reports of any drainage congestion. Regular monitoring	Keep clear all drainage channels. Regular monitoring
River Traffic/ Transport	River traffic-related signboards have already been fixed to ensure a safe river traffic movement		No mitigation measure is required		P	-	Install river traffic and navigation-related signboards	Urged to expedite the installation of the remaining Aids to Navigation items immediately to ensure timely completion.
Accidental Spillage	No reports yet	Oil spill emergency plan. 24/7 ready plan	-		P	-	Logbook to be maintained, in case, of any incident, report to the authority	No action taken yet

Visual Monitoring Compliance								
Potential Aspects	Description	EMP Measures (Proposed in the EIA)	Measures Already Implemented	Compliance Status			Remarks/ Recommendation	Recommended deadline for implementing the corrective measures
				C	P	N		
Sediment leakages from pipes and sediment disposal	No significant leakages were observed with the floater and/or delivery pipe	Maintain pipes	Pipes regularly checked	-	P	-	Stop dredging, fix the problem before resumption; and report to the authority	
Drinking water & sanitation	Safe drinking water is being supplied	Source to be mentioned	-	-	C	-	-	Source of drinking water to be mentioned
Safety of workers	Occupational safety		PPEs provided	-	-	P	Monitor the use of PPEs	Regular monitoring, punitive measures for not using PPEs, or Awareness programs for using PPEs. Besides, need to provide an adequate number of PPEs.
Waste management	Waste bins have been placed on the houseboat as well as in the dredger and maintained		-	-	C	-	Colored collection bins for organic and non-organic solid wastes; no wastes in the river	Mention later stages, what happens after collection from waste bins
Cultural and archeological Sites	Preservation of such sites		x	-	x	x	Stop dredging, report to the authorities	-
Wastewater	Drained properly		-	-	-	P	-	-

Note: The table was prepared based on observations from the field visit.

Table 4: Compliance Status for December 2024 for Lot-3

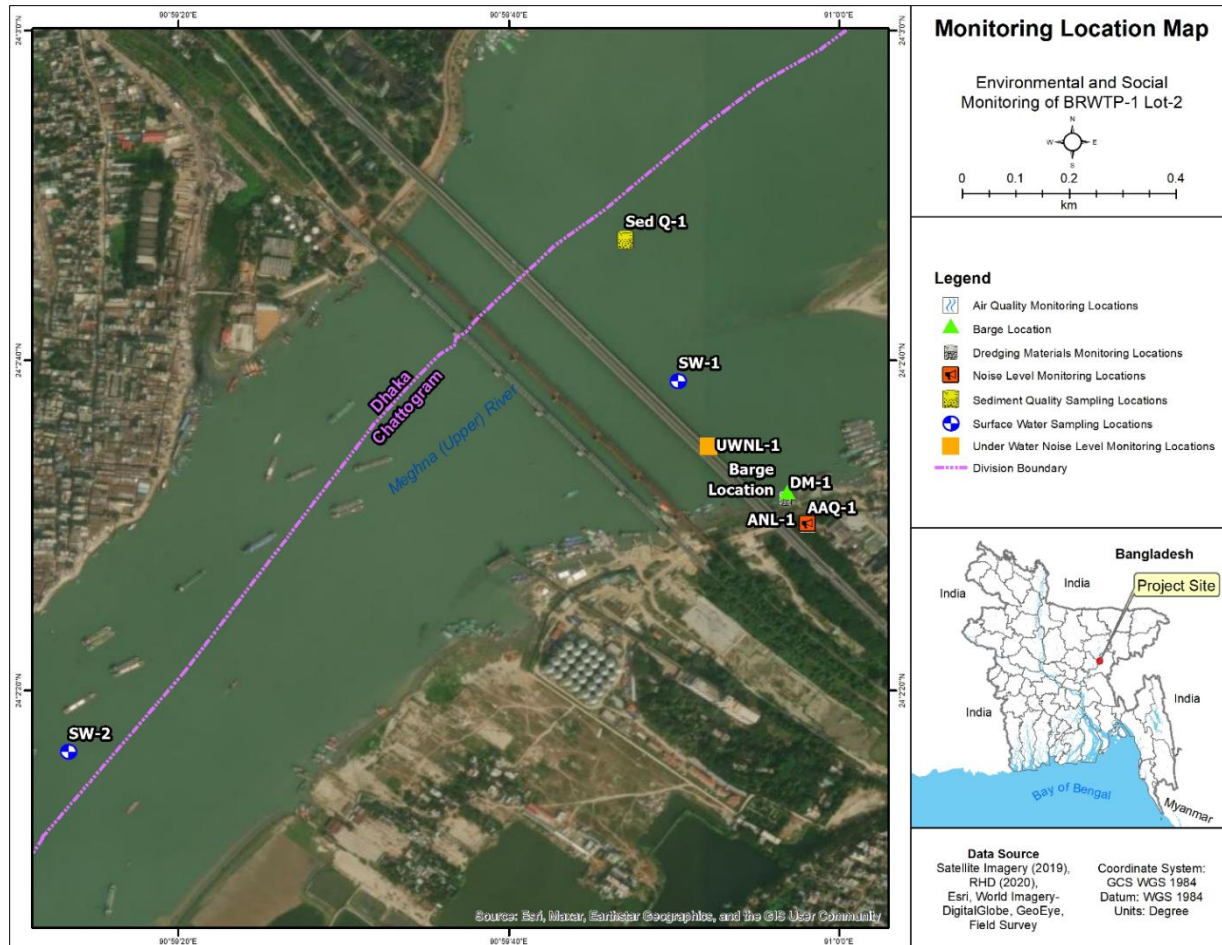
Visual Monitoring Compliance								
Potential Aspects	Description	EMP Measures (Proposed in the EIA)	Measures Already Implemented	ComplianceStatus			Remarks/ Recommendation	Recommended deadline for implementing the corrective measures
				C	P	N		
Aquatic Floraand Fauna including Plankton, Benthos, fish, dolphin	During the reporting month Thirty (30) species of fish and five (05) species of crustaceans were observed in the surveyed routes with no fish mortality recorded	Mitigation measures not required	No mitigation measure is required in the reporting period	-	P	-	Lo2 and Lot 3 ESHS staff were advised to be physically present while dredging is ongoing to give more effort and to spend more time on regular monitoring of the habitat and biodiversity.	To be practiced every month
Sediment Dispersion	Not measured	x	No mitigation measure is required in the reporting period	-	-	N	Contractors were notified to measure the sediment plume on the 1st of March 2023. Reminders were given verbally and by email	No action taken or data provided by the contractors yet. Will be reminded again
Riverbank Erosion	No reports of riverbank erosion or flooding occurred during the reporting month.	Regular monitoring		-	P	-		Regular monitoring
Hydrological Conditions	Surveyed before dredging							

Consultancy Services for: Supervision and Monitoring of Performance-Based Dredging Contracts with Maintenance Dredging and Installation and Maintenance of Navigational Aids along the Navigational Routes under the Contract

Visual Monitoring Compliance								
Potential Aspects	Description	EMP Measures (Proposed in the EIA)	Measures Already Implemented	Compliance Status			Remarks/ Recommendation	Recommended deadline for implementing the corrective measures
				C	P	N		
Drainage Congestion	No drainage congestion was observed during this month.				P	-	No reports of any drainage congestion	To be monitored regularly, early mornings and evenings
River Traffic/Transport	No traffic-related problems were identified	Appropriate aids to navigation to be installed	Procurement of aids to navigation under process	-	P	-	River traffic-related sign boards observed	Appropriate aids to navigation to be installed soon, some.
Accidental Spillage	No reports yet	Monitoring and preparedness to handle any accidental spillage	No spills from chemical storage	-	P	-	Emergency oil spill management plan	Emergency Plan in place, to be updated if necessary
Sediment leakages from pipes and sediment disposal	No reports of any leakage	Maintain pipes, regular checking	During this reporting month, no leakage was found in the dredge pipe. Pipes regularly checked	-	P	-	No reports of leakage	Stop dredging, fix the problem before resumption; and report to the authority
Drinking water & sanitation	Safe drinking water is being supplied			C	-	-		Drinking water source to be mentioned
Safety of workers	Occupational safety		PPEs provided	-	-	N	Awareness of using PPEs	Give warning notice to workers
Dredged material disposal	Unauthorized and illegal disposal of dredged material destroys the reed lands and alters the physical characteristics of the area. Disturbed foraging and roosting habitat of birds	Reed land to be protected, no disposal of dredged material, no alteration of the critical habitats/ecosystem	No information was provided to S1A			N	Punitive measures recommended against the Contractor	Habitat already destroyed, no scope for any corrective measure
Waste management	Waste bins have been placed on the houseboat as well as in the dredger and maintained		-	C	-	-	Colored collection bins for organic and non-organic solid wastes; no wastes in the river	Mention the end process where does the waste go from the bins?
Cultural and archeological Sites	Preservation of such sites		x	-	x	x	Stop dredging, report to the authorities	-
Wastewater	From houseboats, dikes, etc.	Treated, release after settling	Not described	-	-	N	To be treated before release	-

ANNEX VI: Location Map of Environmental Sample Collection, January 2025

Location Map Environmental Sample Collection at Lot-2 sites (January 2025):



Location Map Environmental Sample Collection at Lot-3 sites (January 2025):

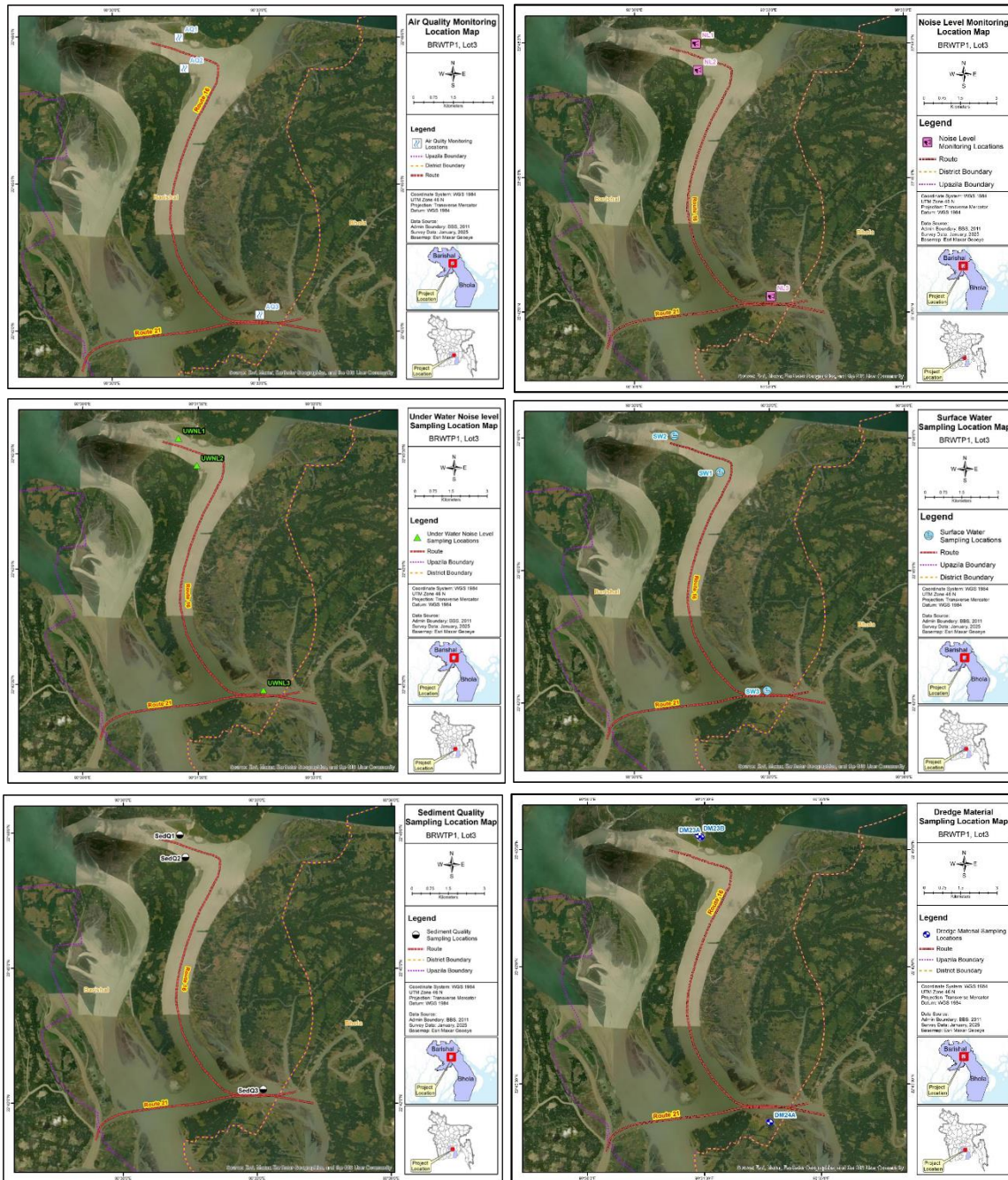
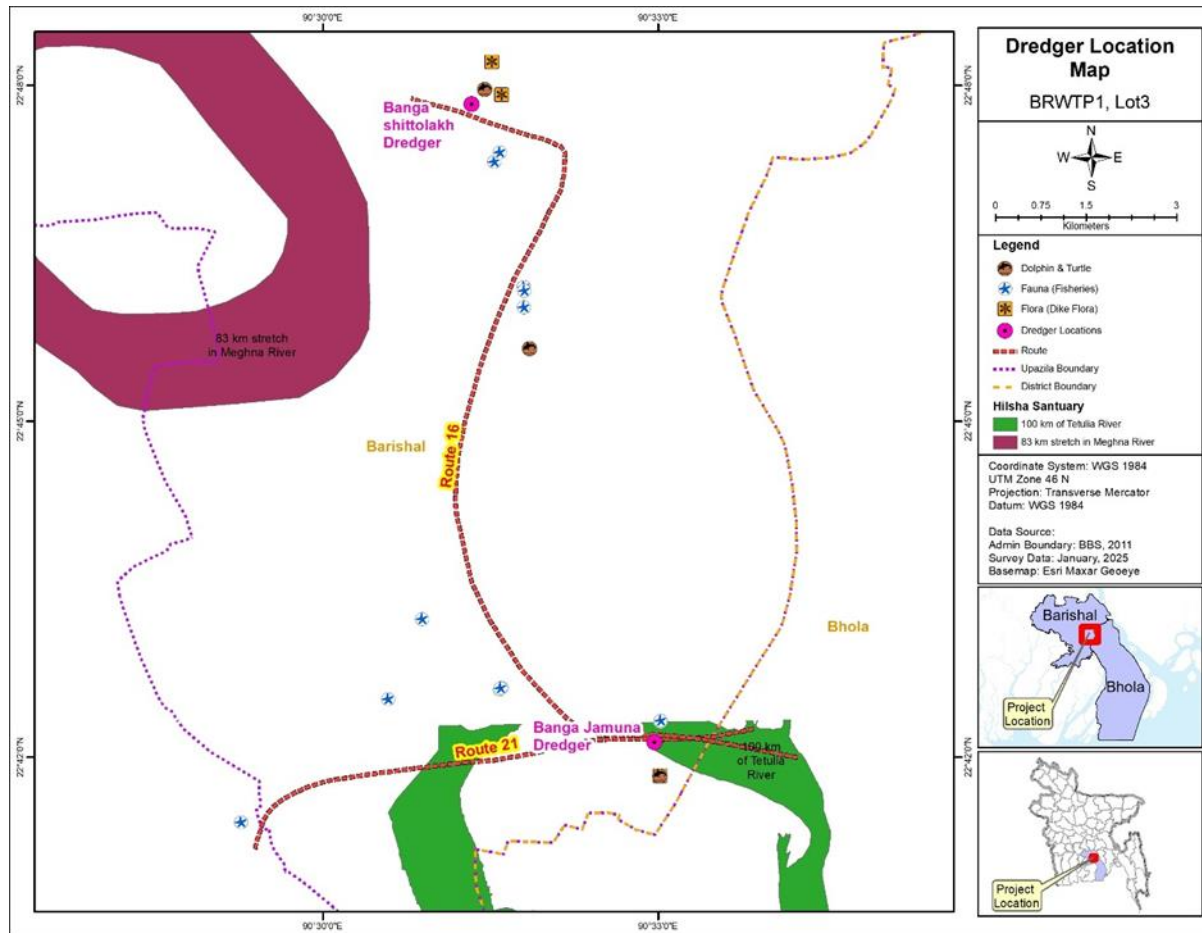



Figure 3 Aquatic Flora & Fauna (Fish, Dolphin, and Turtle) survey location map at Lot-3 site, January 2025



ANNEX VII:

Laboratory Test Results of Environmental Parameters LoT-2 and Lot-3, January 2025

LOT-2




Ref: ELRC/Air Quality/20250126891

Project Name	: BRWTP-1, LOT-2: OPBC Works of Development Dredging with maintenance and Aids to Navigation with installation along inland waterway Routes- 3 & 4, 5, 6, 7 & 8, 9,10, and 11
Monitoring Activity	: Ambient Air Quality
Location	: AQ1: Near Ashuganj Port; Route-5 (24.041670°N 90.999470°E)
Monitoring Date	: 29.01.2025
Reporting Date	: 03.02.2025

Description of Analysis:


Location	Sampling Date	Ambient Air Pollutants' Concentration in µg/m3					CO mg/m3
		SPM	PM10	PM2.5	SO2	NO2	
AQ1	29.01.2025	196.37	110.48	54.93	19.21	35.64	0.5
Air Pollution (control) rules, 2022*		-	150	65	80	80	5
Method of Analysis Instrument Use: Haz-Scanner TM (HIM, 6000)		Particulates Sensor Light Scattering Nephelometer			High Sensitivity Electrochemical		

Note: * Air Pollution (Control) Rules, 2022
Legend: PM₁₀-Particulate Matter of a diameter of 10 microns or less, PM_{2.5}-Particulate Matter of a diameter of 2.5 microns or less, SO₂-Sulphur Dioxide; NO₂-Nitrogen-Dioxide; CO -Carbon Monoxide



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Ref: ELRC/Noise Level/20250126892

Project Name	:	BRWTP-1, LOT-2: OPBC Works of Development Dredging with maintenance and Aids to Navigation with installation along inland waterway Routes- 3 & 4, 5, 6, 7 & 8, 9,10, and 11.
Monitoring Activity	:	Noise Level
Location	:	NL1: Ashuganj Jetty Terminal; Route-5 (24.041696°N 90.999465°E)
Monitoring Date	:	29.01.2025
Reporting Date	:	03.02.2025

Description of Analysis:

Location	Noise level (dB(A))			Bangladesh Standard (dB(A)) *	IFC EHS Guideline (2007)	Location setting
	Leq _{day}	L _{max}	L _{min}	Day	Day	Mixed area
NL1	65.6	75.8	45.3	60	70	

Note:

*Ministry of Environment, Forest, and Climate Change. (2006). Noise Pollution (Control) Rules, 2006 (S.R.O. No. 212-Law/2006). The People's Republic of Bangladesh.

A-weighted decibel, abbreviated dB(A), is an expression of the relative loudness of sounds in air as perceived by the human ear. In the A-weighted system, the decibel values of sounds at low frequencies are reduced, as the ear is less sensitive to low audio frequencies, especially below 1000 Hz, than to high audio frequencies.



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Ref: ELRC/Underwater Noise Level/20250126893

Project Name	:	BRWTP-1, LOT-2: OPBC Works of Development Dredging with maintenance and Aids to Navigation with installation along inland waterway Routes- 3 & 4, 5, 6, 7 & 8, 9,10, and 11.
Monitoring Activity	:	Under Water Noise Level
Location	:	UWNL1: Titas River; Route-5 (24.043000°N 90.997800°E)
Monitoring Date	:	28.01.2025
Reporting Date	:	03.02.2025

Description of Analysis:

Code	Location	L _{Avg} [dB (A)]	*Standard
UWNL1	Titas River; Route-5	54.6	No International/ GoB Standard



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Ref: ELRC/Surface Water Quality/20250126894

Project Name	:	BRWTP-1, LOT-2: OPBC Works of Development Dredging with maintenance and Aids to Navigation with installation along inland waterway Routes- 3 & 4, 5, 6, 7 & 8, 9,10, and 11.
Description of Sample	:	SW1: Meghna River; Route-5 (24.044100°N 90.997300°E)
Location	:	SW2: Meghna River; Route-5 (24.037857°N 90.987049°E)
	:	Amit kumar Saha
Sampling Date	:	28.01.2025
Reporting Date	:	03.02.2025

Description of Analysis:

Parameters	Unit	Concentration Present		Bangladesh Standard
		SW1	SW2	
Temperature	°C	26.6	26.8	-
EC	µS/cm	110	109	-
Turbidity	NTU	9.26	9.88	-
pH	-	6.74	6.86	6-9
TDS	ppm	54	56	1000
DO	mg/L	5.9	5.8	5 of more
Potassium	mg/L	19	21	-
Calcium	mg/L	14	17	-
Magnesium	mg/L	11	13	-
Phosphate	mg/L	1	1.1	-
Chloride	mg/L	32	35	-
Fluoride	ppm	0.5	0.7	-
Nitrate	mg/L	0.4	0.4	7
BOD5 (at 20°C)	mg/L	3.5	3.6	6 of less
Sulfate	mg/L	15	18	-
TSS	mg/L	122	124	-

Note: Bangladesh Environment Conservation Rules, 1997- Schedule 3 (Standards for Inland Surface Water). DO: Dissolved Oxygen; BOD: Biological Oxygen Demand; EC: Electric Conductivity; TDS: Total Dissolved Solids; TSS: Total Suspended Solids



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Ref: ELRC/Sediment Quality/20250126895

Project Name	: BRWTP-1, LOT-2: OPBC Works of Development Dredging with maintenance and Aids to Navigation with installation along inland waterway Routes- 3 & 4, 5, 6, 7 & 8, 9,10, and 11.
Description of Sample	: SedQ1: Meghna River; Route-5 (24.046470°N 90.996410°E)
Location	: Amit Kumar Saha
Sampling Date	: 28.01.2025
Reporting Date	: 03.02.2025

Description of Analysis:

Parameter	Unit	Sediment Quality – Lot 2	Methodology	Dutch Environmental Standard (mg/kg)
		Sed Q1		
Lead	mg/kg	14.94	ICPMS	85
Cadmium	mg/kg	0.016	ICPMS	0.8
Chromium	mg/kg	12.27	ICPMS	100
Zinc	mg/kg	16.91	ICPMS	140
Arsenic	mg/kg	2.4	ICPMS	29

Note: ICPMS - Inductively coupled plasma mass spectrometry



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LOT-3



Ref: ELRC/Noise Level/ NLMM2025-01

Project Name	:	BIWTP -1, LOT-3: OPBC Works of Development Dredging with maintenance and Aids to Navigation with installation along inland waterway Routes- 12,13,13a, 15 &16, 17 and 21
Monitoring Activity	:	Noise Level
Location	:	NL1 22°47'59.14"N 90°31'22.33"E, (Route 16) NL2 22°47'23.31"N 90°31'25.29"E, (Route 16) NL3 22°42'20.68"N 90°33'3.11"E, (Route 21)
Monitoring Date	:	21.01.2025

Description of Analysis:

Location	Noise level (dB(A)) ¹			Bangladesh Standard (dB(A)) ²	IFC EHS Guideline (2007) ³	Location setting
	Leq _{day}	L _{max}	L _{min}	Day	Day	
NL1	72.56	88.32	37.10	-	-	-
NL2	62.11	77.28	34.40	-	-	-
NL3	65.41	89.90	35.79	-	-	-

Note:

*Ministry of Environment, Forest, and Climate Change. (2006). Noise Pollution (Control) Rules, 2006 (S.R.O. No. 212-Law/2006). The People's Republic of Bangladesh.

A-weighted decibel, abbreviated dB(A), is an expression of the relative loudness of sounds in air as perceived by the human ear. In the A-weighted system, the decibel values of sounds at low frequencies are reduced, as the ear is less sensitive to low audio frequencies, especially below 1000 Hz, than to high audio frequencies.

¹ A-weighted decibel, abbreviated dB(A), is an expression of the relative loudness of sounds in air as perceived by the human ear. In the A-weighted system, the decibel values of sounds at low frequencies are reduced, as the ear is less sensitive to low audio frequencies, especially below 1000 Hz, than to high audio frequencies.

²Ministry of Environment, Forest, and Climate Change. (2006). Noise Pollution (Control) Rules, 2006 (S.R.O. No. 212-Law/2006). The People's Republic of Bangladesh.

³ Guidelines values are for noise levels measured out of doors. Source: Guidelines for Community Noise, World Health Organization (WHO), 1999

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Ref: ELRC/ Underwater Noise Level/ UWNL2025-01

Project Name	:	BIWTP -1, LOT-3: OPBC Works of Development Dredging with maintenance and Aids to Navigation with installation along inland waterway Routes- 12,13,13a, 15 &16, 17 and 21
Monitoring Activity	:	Underwater Noise Level
Location	:	UWNL1 22°47'57.32"N 90°31'8.96"E, Route 16 UWNL2 22°47'20.73"N 90°31'33.60"E, Route 16 UWNL3 22°42'17.63"N 90°33'3.53"E, Route 21
Monitoring Date	:	21.01.2025

Description of Analysis:

Code	Location	L _{Avg} [dB (A)]	*Standard
		[dB (A)]	
UWNL1	Route 16	70.4	No standard of International / GoB
UWNL2	Route 16	62.1	
UWNL3	Route 21	65.7	

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Ref: ELRC/Surface Water Quality/ SWMM2025-01

Project Name	:	BIWTP -1, LOT-3: OPBC Works of Development Dredging with maintenance and Aids to Navigation with installation along inland waterway Routes- 12,13,13a, 15 &16, 17 and 21
Description of Sample	:	Surface Water
Location	:	Route- 16, & 21.
		SW1 - 22°47'13.77"N 90°31'54.63"E, Route 16
		SW2 - 22°48'3.78"N 90°30'53.52"E, Route 16
		SW3 - 22°42'17.05"N 90°32'57.31"E, Route 21
Sampling Date	:	21/01/2025

Description of Analysis:

Parameters	Unit	Concentration Present (Route -16, & 21)			Bangladesh Standard
		SW1	SW2	SW3	
Temperature	°C	24.5	24.8	24.7	-
EC	µS/cm	300	295	310	-
Turbidity	NTU	13.8	12.9	11.8	-
pH	-	7.52	7.75	7.78	6 - 9
TDS	ppm	150	140	160	1000
DO	mg/L	6.6	6.9	6.8	5 or more
Potassium	mg/L	8.5	8.0	14.7	-
Calcium	mg/L	29	32	31	-
Magnesium	mg/L	7.9	8.2	9.7	-
Phosphate	mg/L	0.8	0.6	0.4	0.05
Chloride	mg/L	9.0	8.8	6.2	-
Fluoride	ppm	0.19	0.16	0.04	-
Nitrate	mg/L	1.1	1.6	1.4	7.0
BOD5 (at 20°C)	mg/L	5.2	4.9	5.9	6 or less
Sulfate	mg/L	22	25	21	-
TSS	mg/L	51	54	41	-

Note: * Bangladesh Environment Conservation Rules-2023, Schedule 2(Ka) (Water Usable for Fisheries). DO: Dissolved Oxygen; BOD: Biological Oxygen Demand; EC: Electric Conductivity, TDS: Total Dissolved Solids; TSS: Total Suspended Solids

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Ref: ELRC/ Riverbed sediment / SDMM2025-01

Project Name	:	BIWTP -1, LOT-3: OPBC Works of Development Dredging with maintenance and Aids to Navigation with installation along inland waterway Routes- 12,13,13a, 15 &16, 17 and 21
Description of Sample	:	Riverbed sediment – Lot 3
Sampling Date	:	21/01/2025

Location Details:

Code	Route No.	GPS Location
SedQ1	Route 16	22°47'57.85"N 90°31'15.97"E
SedQ2	Route 16	22°47'27.95"N 90°31'23.79"E
SedQ3	Route 21	22°42'18.38"N 90°33'8.14"E

Description of Analysis:

Parameter	Unit	Riverbed sediment – Lot 3			Methodology	Dutch Environmental standard (mg/kg)
		SedQ1	SedQ2	SedQ3		
Lead	mg/kg	8.99	9.34	8.27	ICPMS	85
Cadmium	mg/kg	0.064	0.069	0.067	ICPMS	0.8
Chromium	mg/kg	19.78	23.99	20.09	ICPMS	100
Zinc	mg/kg	30.45	29.70	33.99	ICPMS	140
Arsenic	mg/kg	2.46	2.30	2.40	ICPMS	29

Note: ICPMS - Inductively coupled plasma mass spectrometry

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Ref: ELRC/ Dredge Material / SDMM2025-01

Project Name	:	BIWTP -1, LOT-3: OPBC Works of Development Dredging with maintenance and Aids to Navigation with installation along inland waterway Routes- 12,13,13a, 15 & 16, 17 and 21
Description of Sample	:	Dredge Material – Lot 3
Sampling Date	:	21/01/2025

Location Details:

Sl. No.	Sampling Station	Station Code	Sampling Date	GPS Coordinates
1.	Route 16	DM-23 A	21/01/2025	22°48'10.22"N 90°31'29.76"E
2.	Route 16	DM-23 B	21/01/2025	22°48'12.66"N 90°31'26.58"E
3.	Route 21	DM-24 A	21/01/2025	22°41'50.23"N 90°33'1.72"E

Description of Analysis:

Parameter	Unit	Dredge Material Route 16 & 21			Methodology	Dutch Environmental standard (mg/kg)
		DM23A	DM23B	DM24A		
Lead	mg/kg	10.42	11.39	10.38	ICPMS	85
Cadmium	mg/kg	0.081	0.085	0.073	ICPMS	0.8
Chromium	mg/kg	29.09	33.12	28.88	ICPMS	100
Zinc	mg/kg	35.03	37.47	40.13	ICPMS	140
Arsenic	mg/kg	3.19	3.22	3.87	ICPMS	29

Note: ICPMS - Inductively coupled plasma mass spectrometry

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ANNEX VIII:

Checklist of Dredging and ESHS Activities Lot-2 & Lot-3, January, 2025

Checklists, Lot-2

Table 3: Checklist on ESHS Activities Lot-2 January 2025

Factors	Checklist Items		Dredging Activity			Comments/Compliance
			Daily	Monthly	Quarterly	
1. Permits and Explanation	1	EIA and Environmental Permits	○	○	√	
	2	Explanation to the Local Stakeholders	○	○	√	
	3	Signboards, Notice Boards	○	○	√	
2. Physical Environmental Parameters Monitoring	1	Air Quality	○	√	○	Supervised in 28 January and 29 January at Ashuganj Cargo Terminal Area. Route no. 05
	2	Surface Water Quality	○	√	○	
	3	Solid Wastes	○	√	○	
	4	Liquid Wastes	○	√	○	
	5	Soil Contamination	○	√	○	
	6	Noise and Vibration	○	√	○	
	7	Underwater Noise	○	√	○	
	8	Odor	○	√	○	
	9	Riverbed Sediment	○	√	○	
	10	Groundwater	○	√	○	
3. Natural Environment	1	Protected Areas	○	√	○	Route no. 05
	2	Habitat Type	○	√	○	Route no. 05
	3	Hydrology	○	√	○	Route no. 05
	4	Topography and Geology	○	√	○	Route no. 05
	5	Dolphin Observation	○	√	○	Route no. 05
	6	Fish Catch Examination	○	√	○	Route no. 05
	7	Flora (Aquatic & Terrestrial)	○	√	○	Route no. 05
	8	Benthos (Micro & Macro)	○	√	○	Route no. 05
	9	Phyto- & Zoo-planktons	○	√	○	Route no. 05
4. Social Environment	1	Resettlement	○	○	√	
	2	Living and Livelihood	○	○	√	
	3	Heritage	○	○	√	
	4	Landscape	○	○	√	
	5	Ethnic Minorities and Indigenous Peoples	○	○	√	
5. Occupational Health Safety	1	Work Permit/Contract	○	○	√	
	2	Daily Toolbox Meeting - OHS	○	○	√	
	3	Working Conditions	○	√	○	Fair
	4	Impact/Precaution during Dredging	○	○	√	Not any major issue observed
	5	Accident Prevention Measures	○	√	○	Contractors ESHS team visiting site and concerning all the Manpower
	6	Working Condition	√	○	○	Fair
	7	Accommodation	√	○	○	House Boat

	8	Personal Protection Equipment	✓	○	○	Safety helmet, Safety vest, safety shoes, Hand gloves etc observed at site.
	9	Drinking Water	✓	○	○	Freshwater daily collect from tube well
	10	Sanitary Condition	✓	○	○	Good arrangement kept in House boat
6. Dredged Material Disposal Area	1	Agreement with Land Owner	○	○	✓	Process ongoing
	2	Land Use Type	○	✓	○	Once or twice cultivated land in a year and also some non-cultivated fellow land
	3	Dyke Design Approval	○	✓	○	Not Yet Selected
	4	Dyke Setback Distance	○	✓	○	
	5	Disposal Area Dyke Height	○	✓	○	
	6	Dyke Strengthened/Material Used*	○	○	✓	When required then used
7. Dredger	1	Carbon Emission	○	○	✓	Not found/observed at site for all route in lot-2
	2	Leakage	○	○	✓	
	3	Oil Spill	○	○	✓	
	4	Onboard Waste Management	○	○	✓	
	5	Noise and Vibration	○	○	✓	

Table 4: Environmental Monitoring Checklist, Lot-2 January, 2025

Category	Environmental Item	Main Check Items	Yes: Y No: N
1. Permits and Explanation	(1) EIA and Environmental Permits	(a) Have EIA reports been already prepared in official process?	Y
		(b) Have EIA reports been approved by authorities of the host country's government?	Y
		(c) Have EIA reports been unconditionally approved? If conditions are imposed on the approval of EIA reports, are the conditions satisfied?	Y
		(d) In addition to the above approvals, have other required environmental permits been obtained from the appropriate regulatory authorities of the host country's government?	Y
	(2) Explanation to the Local Stakeholders	(a) Have contents of the project and the potential impacts been adequately explained to the Local stakeholders based on appropriate procedures, including information disclosure? Is understanding obtained from the Local stakeholders?	Y
	(3) Examination of Alternatives	(a) Have alternative plans of the project been examined with social and environmental considerations?	Y
2. Physical Environmental Parameters Monitoring	(1) Air Quality	(a) Do air pollutants, such as sulfur oxides (SOx), nitrogen oxides (NOx), soot and dust emitted from the ships, vehicles and the facilities like docs comply with the country's emission standards? Are any mitigating measures taken?	Y
	(2) Water Quality	(a) Do pollutants, such as Suspended Solids (SS), oils/fats and other toxicants contained in effluents comply with the country's effluent standards (BOD, COD, ph, etc)? Is there a possibility that the effluents from the project will cause areas not to comply with the country's ambient water quality standards?	Y

Category	Environmental Item	Main Check Items	Yes: Y No: N
		(b) Are adequate measures taken to prevent contamination of surface water, groundwater and soil by the effluents from storage areas, including raw materials, chemicals, and wastes?	N
	(3) Wastes	(a) Are wastes (including hazardous wastes and other industrial wastes) generated from the project facilities properly treated and disposed of in accordance with the country's regulations?	N
		(b) Are adequate measures taken to prevent contamination of soil and groundwater by leachates from the waste storage/disposal sites?	N
	(4) Noise and Vibration	(a) Do noise and vibrations comply with the country's standards?	N
	(5) Subsidence	(a) In the case of extraction of a large volume of groundwater, is there a possibility that the extraction of groundwater will cause subsidence?	N
	(6) Odor	(a) Are there any odor sources? Are adequate odor control measures taken?	N
	(7) Riverbed Sediment	(a) Sediment collection in presence of S1A team members/staff?	Y
		(b) Samples sent to the laboratory within 12 hours?	Y
		(c) If sample results showed presence of heavy metal, treatment measures like separate compartment for disposal of dredged material taken by the Contractor	N
	(8) Groundwater	Samples collected and analyzed	N
3. Natural Environment	(1) Protected Areas	(a) Is the project site located in protected areas designated by the country's laws or international treaties and conventions? Is there a possibility that the project will affect the protected areas?	N
	(2) Ecosystem/Habitat Type	(a) Does the project site encompass primeval forests, tropical rain forests, ecologically valuable habitats (e.g., Char land, reed land, mangroves, or tidal flats)?	N
		(b) Does the project site encompass the protected habitats of endangered species designated by the country's laws or international treaties and conventions?	N
		(c) If significant ecological impacts are anticipated, are adequate protection measures taken to reduce the impacts on the ecosystem?	N
		(d) Is there a possibility that the amount of water (e.g., surface water, groundwater) used by the project will adversely affect aquatic environments?	N
		(e) Are adequate measures taken to reduce the impacts on aquatic environments, such as aquatic organisms?	N
	(3) Topography and Geology	(a) Is the stability of the existing topographic conditions adequately considered for alteration of topographic features, such as cut and fill operations?	N
		(b) Is there a possibility that soil runoffs will result from cut and fill areas, waste soil disposal sites, and borrow sites?	N

Category	Environmental Item	Main Check Items	Yes: Y No: N
		(c) Are adequate mitigation measures taken to prevent soil runoffs?	N
		(d) Is there any possibility that the project will erode natural river bank, foreshore area, beaches?	N
	(4) Dolphin Observation	(a) Exclusive time spent for observing dolphins?	N
	(5) Fish Catch Examination	(a) Fishermen upstream and downstream of dredging site interviewed and catch examined? Types of gears used?	Y
	(6) Flora (Aquatic & Terrestrial)	(a) Flora surveyed around the dredging and dredged material disposal sites	N
	(7) Benthos (Micro and Macro)	(a) Sampling done and analyzed; report submitted	Y
	(8) Phyto- & Zoo-Planktons	(a) Sampling done and analyzed; report submitted	Y
4. Social Environment	(1) Resettlement	(a) Is involuntary resettlement caused by project implementation? If involuntary resettlement is caused, are efforts made to minimize the impacts caused by the resettlement?	N
		(b) Is adequate explanation on compensation and resettlement assistance given to affected people prior to resettlement?	N
		(c) Is the resettlement plan, including compensation with full replacement costs, restoration of livelihoods and living standards developed based on socioeconomic studies on resettlement?	N
		(d) Are the compensations going to be paid prior to the resettlement?	N
		(e) Are the compensation policies prepared in document?	N
		(f) Does the resettlement plan pay particular attention to vulnerable groups or people, including women, children, the elderly, people below the poverty line, ethnic minorities, and indigenous peoples?	N
		(g) Are agreements with the affected people obtained prior to resettlement?	N
		(h) Is the organizational framework established to properly implement resettlement? Are the capacity and budget secured to implement the plan?	N
		(i) Are any plans developed to monitor the impacts of resettlement?	N
		(j) Is the grievance redress mechanism established?	N
	(2) Living and Livelihood	(a) Is there a possibility that the project will adversely affect the living conditions of inhabitants? Are adequate measures considered to reduce the impacts, if necessary?	N
		(b) Is sufficient infrastructure (e.g., hospitals, schools, and roads) available for the project implementation? If the existing infrastructure is insufficient, are any plans developed to construct new infrastructure or improve the existing infrastructure?	N

Category	Environmental Item	Main Check Items	Yes: Y No: N
		(c) Is there a possibility that large vehicles traffic for transportation of materials, such as raw materials and products will have impacts on traffic in the surrounding areas, impede the movement of inhabitants, and cause any risks to pedestrians?	N
		(d) Is there a possibility that diseases, including infectious diseases, such as HIV, will be brought due to the immigration of workers associated with the project? Are adequate considerations given to public health, if necessary?	N
	(3) Heritage	(a) Is there a possibility that the project will damage the local archeological, historical, cultural, and religious heritage sites? Are adequate measures considered to protect these sites in accordance with the country's laws?	N
	(4) Landscape	(a) Is there a possibility that the project will adversely affect the local landscape? Are necessary measures taken?	N
	(5) Ethnic Minorities and Indigenous Peoples	(a) Are considerations given to reduce impacts on the culture and lifestyle of ethnic minorities and indigenous peoples?	N
		(b) Are all of the rights of ethnic minorities and indigenous peoples in relation to land and resources respected?	N
	(6) Working Conditions	(a) Is the project proponent not violating any laws and ordinances associated with the working conditions of the country which the project proponent should observe in the project?	N
		(b) Are tangible safety considerations in place for individuals involved in the project, such as the installation of safety equipment which prevents industrial accidents, and management of hazardous materials?	N
		(c) Are intangible measures being planned and implemented for individuals involved in the project, such as the establishment of a safety and health program, and safety training (including traffic safety and public sanitation) for workers etc.?	N
		(d) Are appropriate measures being taken to ensure that security guards involved in the project do not violate safety of other individuals involved, or local residents?	N
5. Others	(1) Impacts during dredging/construction	(a) Are adequate measures considered to reduce impacts during construction (e.g., noise, vibrations, turbid water, dust, exhaust gases, and wastes)?	N
		(b) If construction activities adversely affect the natural environment (ecosystem), are adequate measures considered to reduce the impacts?	N
	(2) Accident Prevention Measures	(a) Does the project have any accident prevention equipment and scheme to store, emit and transport toxic and hazardous materials?	N

Category	Environmental Item	Main Check Items	Yes: Y No: N
	(3) Monitoring	(a) Does the proponent develop and implement monitoring program for the environmental items that are considered to have potential impacts?	N
		(b) What are the items, methods and frequencies of the monitoring program?	N
		(c) Does the proponent establish an adequate monitoring framework (organization, personnel, equipment, and adequate budget to sustain the monitoring framework)?	N
		(d) Are any regulatory requirements pertaining to the monitoring report system identified, such as the format and frequency of reports from the proponent to the regulatory authorities?	N

Table 5: Checklist on Dredging Activities Lot-2 January 2025

Checklist Items		Dredging Activity			Comments/Compliance
		Daily	Monthly	When and As Required	
1	Gauge reading & Water level (WL)	<input type="radio"/>	<input type="radio"/>	√	
2	Connectivity with BM & TBM	<input type="radio"/>	<input type="radio"/>	√	
3	Study Hydrographic Chart	<input type="radio"/>	<input type="radio"/>	√	
4	Fixing Cutting Depth respect to existing WL as per design depth	<input type="radio"/>	<input type="radio"/>	√	
5	Checking Dredging Alignment	<input type="radio"/>	<input type="radio"/>	√	
6	Checking Dredged Activities as below;				Dredged Activities for the month of 25 January, 2025 (Ashuganj Cargo Terminal Area)
	a Dredging Hours	<input type="radio"/>	√	<input type="radio"/>	Total Dredging Hours 56hrs (Route 05 is 56hrs) (Approximately) Cutting or Excavation with Long Boom Excavator carried by barge
	b Cutting Length	<input type="radio"/>	√	<input type="radio"/>	Total length is 20m Route 05 length 20m
	c Cutting Depth	<input type="radio"/>	√	<input type="radio"/>	Average Cutting Depth for Route 05 is 1.55m (Ashuganj Cargo Terminal Area)
	d Cutting Width	<input type="radio"/>	√	<input type="radio"/>	Cutting Width Route 05 is 26m
	e Dredged Volume	<input type="radio"/>	√	<input type="radio"/>	Total Dredged Volume =806.00 cum (Route 05 is 806.00cum) (Approximately)
7	Supervising Dredged Material Disposal Area whether the Dykes are designed as per Design	<input type="radio"/>	√	<input type="radio"/>	Supervised together with dredging experts during the new dyke construction and it is observed that Dykes are maintained as per Design
8	Supervising Dredged Material Disposal Area whether the Dykes are capable to resist the pressure of disposed materials	<input type="radio"/>	√	<input type="radio"/>	It's observed that new dyke boundary wall maintained proper design thickness, slope, layer of compaction, 20m/30m safe distance from river bank.
9	Checking outlet of the compartment	<input type="radio"/>	√	<input type="radio"/>	
10	Check whether the dykes are being constructed at safe distance from river bank	<input type="radio"/>	√	<input type="radio"/>	
11	Check construction of the pipe line whether there is any leakage in the Joints of Floating Pipe/Shore pipe lines	<input type="radio"/>	√	<input type="radio"/>	
12	Check whether dredging work exacting Keeping Safety distance of River side installations like Road/houses/building.	<input type="radio"/>	√	<input type="radio"/>	It is observed that contractor maintained 100m from safe distance from Road/Houses/building and 20m-30m safe distance maintained from river Bank

13	Check Survey Activities	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	This Month no survey occurs
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Table 6: Grievance Redressal Mechanism (GRM) Checklist, Lot-2 January 2025

Sl no.	Factors	Checklist Items		Dredging Activity				Comments/Compliance
				Daily	Weekly	Monthly	Quarterly	
1	Legal and Regulatory Compliance	1	The contractors communicate to all the stakeholders regarding GRM processing and lodging complaints.	○	○	○	√	There are a GRM committee with 5 persons here.
		2	Contact details for lodging grievance easily accessible.	○	○	○	√	
2	Community Engagement	1	Consultations have been conducted with local communities, dredging contractors to collect their input on the GRM design.	○	○	○	√	
		2	The preferences of social customs and cultural sensitivities of the project affected communities taken into consideration.	○	○	○	√	
		3	FGD on GRM with the Project Affected Persons (PAPs)	○	○	○	√	
3	Grievance Channels	1	The multiple accessible channels available for the stakeholders to submit their grievances. (e.g., toll-free hotline, online platform, drop box, post, landline/mobile phone and e-mail).	○	○	○	√	
4	Processing of GFA (Good Faith Agreement)	1	Dyke/Land selection survey.	○	○	√	○	Route no.09 & Route 11
		2	Opinion meeting with land owner along with inform to the contractor and S1A team for justifying land as dyke.	○	○	√	○	
		3	GFA documentation collection.	○	○	√	○	
		4	GFA will be submitted to S1A.	○	○	√	○	
		5	FGD on GFA with the Locals	○	○	○	√	
5	Constitution of GRM Protocol	1	Preparation of GRM Protocol and Grievance Redress Committee (GRC) will be Constituted by the Contractors.	○	○	○	√	
6	Establish a Complaint Box	1	For receive feedback, suggestions and complain letters.	○	○	√	○	There are 3 complain box in site. One box is in office, one box in houseboat and other is open road site.
7	Establish a Signboard	1	The size (5/15) of Bill board will according the BOQ	○	○	√	○	There is a signboard in front of office.
		2	Name, Mobile number and email of the focal person will be included in the Bill board.	○	○	√	○	Not found/observed at site for all route in lot_2
8	3 (three) tyers of the GRM Committee will be formed	1	Local level GRC (Committee members 05, quorum fulfill at least 03) -Project related issues.	○	○	○	√	
		2	Contractor level GRC (Committee members 03, quorum fulfill at least 03)- GBV, CoC, Contractor's workers occurrence etc. related issues.	○	○	○	√	
		3	Project level GRC (Committee members 03, quorum fulfill at least 03)	○	○	○	√	
9	Capacity Building	1	Project staffs and local institutions have received training on the GRM, GBV related issues and its operation.	○	○	○	√	

SI no.	Factors	Checklist Items	Dredging Activity				Comments/Compliance
			Daily	Weekly	Monthly	Quarterly	
10	Leaflet/ Brochure	1 The Leaflet/ Brochure will be published for dissemination to all the stakeholders.	○	○	○	√	There is no leaf let in the site.
11	Monitoring, Reporting & documentation	1 The regular reports generated to document the number, nature, and resolution of grievances (Registration Book, Resolution book / Decision book & Closing book)	○	○	√	○	Route no.09
12	Social Consultation	1 Local Community	○	○	√	○	Route no.09
		2 Land Owner	○	○	√	○	Route no.09
		3 Local Government Authority	○	○	○	√	no
13	Gender-Based Violence (GBV)	1 Sex Violence by an intimate partner	○	○	○	√	None of these has been found/observed for the month of January, 2025
		2 Sexual violence by a non-peer	○	○	○	√	
		3 Child sexual abuse & forced marriage	○	○	○	√	
		4 Sexual exploitation & abuse	○	○	○	√	
		5 Sexual harassment	○	○	○	√	
		6 In case of emergency, the local level GRC will address the matter within 04 -12 hours.	○	○	○	√	When required

Checklists, Lot-3

Table 7: Checklist on Dredging Activities Lot-3, January 2025

Checklist Items		Dredging Activity			Comments/Compliance
		Daily	Monthly	When and As Required	
1	Gauge reading & Water level (WL)	○	○	√	
2	Connectivity with BM & TBM	○	○	√	
3	Study Hydrographic Chart	○	○	√	
4	Fixing Cutting Depth respect to existing WL as per design depth	○	○	√	
5	Checking Dredging Alignment	○	○	√	
6	Checking Dredged Activities as below;				Dredged Activities for the month of January, 2025
a	Dredging Hours	○	√	○	Total Dredging Hours 166.5 hrs. (Route 21 is 74.15 hrs., Route 16 is 74.05 hrs. & Route 13 is 18.30hrs)
b	Cutting Length	○	√	○	Total length is 749 m Route 21 length 356 m Route 13 length 70 m Route 16 length 323 m
c	Cutting Depth	○	√	○	Average Cutting Depth for Route 21 is 1.5m, route 13 is 2.9m and route 16 is 0.00m.
d	Cutting Width	○	√	○	Cutting Width Route 21 ,13, 16 is 76m
e	Dredged Volume	○	√	○	Total Dredged Volume 356033.00 cum (Route 21 is 280511.00 cum, Route 13 is 54700.00cum & Route 16 is 20822.00 cum)
7	Supervising Dredged Material Disposal Area whether the Dykes are designed as per Design	○	√	○	Supervised together with dredging experts during the new dyke construction and it is observed that Dykes are maintained as per Design
8	Supervising Dredged Material Disposal Area whether the Dykes are capable to resist the pressure of disposed materials	○	√	○	It's observed that new dyke boundary wall maintained proper design thickness, slope, layer of compaction, 20m/30m safe distance from river bank.
9	Checking outlet of the compartment	○	√	○	Using 5rs/4nrs of outlet of this compartment
10	Check whether the dykes are being constructed at safe distance from river bank	○	√	○	644m, 1067m, 1343m and 762m ,500m safe distance from the river bank

Checklist Items		Dredging Activity			Comments/Compliance
		Daily	Monthly	When and As Required	
11	Check construction of the pipe line whether there is any leakage in the Joints of Floating Pipe/Shore pipe lines	○	√	○	No leakage observed in the Joints of Floating Pipe/Shore pipe lines
12	Check whether dredging work exacting Keeping Safety distance of River side installations like Road/houses/building.	○	√	○	It is observed that contractor maintained 100m from safe distance from Road/Houses/building and 20m-30m safe distance maintained from river Bank
13	Check Survey Activities	○	√	○	1.Engineering survey work done for lot 3 Route number 13 (Alubazar- Aathazar) & Route number 16 (Patarhat- Bheduriya) on dated 16.01.2025.

Table 8: Checklist on ESHS Activities Lot-3 January 2025

Factors	Checklist Items		Dredging Activity			Comments/Compliance
			Daily	Monthly	Quarterly	
1. Permits and Explanation	1	EIA and Environmental Permits	○	○	√	
	2	Explanation to the Local Stakeholders	○	○	√	
	3	Signboards, Notice Boards	○	○	√	Not found/observed at site for all route in lot_3
2. Physical Environmental Parameters Monitoring	1	Air Quality	○	√	○	Test done for Route no. 21 & 16 only on dated 20.01.2025; 21.01.2025 & 23.01.25
	2	Surface Water Quality	○	√	○	
	3	Solid Wastes	○	√	○	
	4	Liquid Wastes	○	√	○	
	5	Soil Contamination	○	√	○	
	6	Noise and Vibration	○	√	○	
	7	Underwater Noise	○	√	○	
	8	Odor	○	√	○	
	9	Riverbed Sediment	○	√	○	
	10	Groundwater	○	√	○	
3. Natural Environment	1	Protected Areas	○	√	○	
	2	Habitat Type	○	√	○	
	3	Hydrology	○	√	○	
	4	Topography and Geology	○	√	○	
	5	Dolphin Observation	○	√	○	
	6	Fish Catch Examination	○	√	○	
	7	Flora (Aquatic & Terrestrial)	○	√	○	
	8	Benthos (Micro & Macro)	○	√	○	
4. Social Environment	9	Phyto- & Zoo-planktons	○	√	○	
	1	Resettlement	○	○	√	
	2	Living and Livelihood	○	○	√	
	3	Heritage	○	○	√	
	4	Landscape	○	○	√	
5. Occupational Health Safety	5	Ethnic Minorities and Indigenous Peoples	○	○	√	
	1	Work Permit/Contract	○	○	√	
	2	Daily Toolbox Meeting - OHS	○	○	√	
	3	Working Conditions	○	√	○	Fair
	4	Impact/Precaution during Dredging	○	○	√	Not any major issue observed
	5	Accident Prevention Measures	○	√	○	not found
	6	Working Condition	√	○	○	Fair
	7	Accommodation	√	○	○	House Boat

Factors	Checklist Items		Dredging Activity			Comments/Compliance
			Daily	Monthly	Quarterly	
	8	Personal Protection Equipment	√	○	○	Safety helmet, Safety vest, safety shoes, Hand gloves etc store at site but do not wear or maintain properly
	9	Drinking Water	√	○	○	Freshwater daily collect from tube well of nearby village
	10	Sanitary Condition	√	○	○	Good arrangement kept in House boat
6. Dredged Material Disposal Area	1	Agreement with Land Owner	○	○	√	Process ongoing
	2	Land Use Type	○	√	○	Once or twice cultivated land in a year and also some non-cultivated fellow land
	3	Dyke Design Approval	○	√	○	Dike no. 22 for route 21 construction.
	4	Dyke Setback Distance	○	√	○	500m safe distance from the river bank
	5	Disposal Area Dyke Height	○	√	○	Height 2.5m (avg) for Route no.21, Height 2.0m for Route no.16 and Height 1.8m for Route no.13
	6	Dyke Strengthened/Material Used*	○	○	√	When required then used
7. Dredger	1	Carbon Emission	○	○	√	Very low by dredgers
	2	Leakage	○	○	√	Not observed or not found in lot 3
	3	Oil Spill	○	○	√	Visibly very less observed from dredgers and oil tanker
	4	Onboard Waste Management	○	○	√	Not satisfactory or poor management
	5	Noise and Vibration	○	○	√	Very low by dredgers

Table 9:Environmental Monitoring Checklist, Lot-3 January, 2025

Category	Environmental Item	Main Check Items	Yes: Y No: N
1. Permits and Explanation	(1) EIA and Environmental Permits	(a) Have EIA reports been already prepared in official process?	Y
		(b) Have EIA reports been approved by authorities of the host country's government?	Y
		(c) Have EIA reports been unconditionally approved? If conditions are imposed on the approval of EIA reports, are the conditions satisfied?	Y
		(d) In addition to the above approvals, have other required environmental permits been obtained from the appropriate regulatory authorities of the host country's government?	Y
	(2) Explanation to the Local Stakeholders	(a) Have contents of the project and the potential impacts been adequately explained to the Local stakeholders based on appropriate procedures, including information disclosure? Is understanding obtained from the Local stakeholders?	Y
	(3) Examination of Alternatives	(a) Have alternative plans of the project been examined with social and environmental considerations?	Y

Category	Environmental Item	Main Check Items	Yes: Y No: N
2. Physical Environmental Parameters Monitoring	(1) Air Quality	(a) Do air pollutants, such as sulfur oxides (SOx), nitrogen oxides (NOx), soot and dust emitted from the ships, vehicles and the facilities like docks comply with the country's emission standards? Are any mitigating measures taken?	Y
	(2) Water Quality	(a) Do pollutants, such as Suspended Solids (SS), oils/fats and other toxicants contained in effluents comply with the country's effluent standards (BOD, COD, ph, etc)? Is there a possibility that the effluents from the project will cause areas not to comply with the country's ambient water quality standards?	Y
		(b) Are adequate measures taken to prevent contamination of surface water, groundwater and soil by the effluents from storage areas, including raw materials, chemicals, and wastes?	N
	(3) Wastes	(a) Are wastes (including hazardous wastes and other industrial wastes) generated from the project facilities properly treated and disposed of in accordance with the country's regulations?	N
		(b) Are adequate measures taken to prevent contamination of soil and groundwater by leachates from the waste storage/disposal sites?	N
	(4) Noise and Vibration	(a) Do noise and vibrations comply with the country's standards?	Y
	(5) Subsidence	(a) In the case of extraction of a large volume of groundwater, is there a possibility that the extraction of groundwater will cause subsidence?	N
	(6) Odor	(a) Are there any odor sources? Are adequate odor control measures taken?	N
	(7) Riverbed Sediment	(a) Sediment collection in presence of S1A team members/staff?	Y
		(b) Samples sent to the laboratory within 12 hours?	Y
		(c) If sample results showed presence of heavy metal, treatment measures like separate compartment for disposal of dredged material taken by the Contractor	N
	(8) Groundwater	Samples collected and analyzed	N
3. Natural Environment	(1) Protected Areas	(a) Is the project site located in protected areas designated by the country's laws or international treaties and conventions? Is there a possibility that the project will affect the protected areas?	N
	(2) Ecosystem/Habitat Type	(a) Does the project site encompass primeval forests, tropical rain forests, ecologically valuable habitats (e.g., Char land, reedland, mangroves, or tidal flats)?	N
		(b) Does the project site encompass the protected habitats of endangered species designated by the country's laws or international treaties and conventions?	N

Category	Environmental Item	Main Check Items	Yes: Y No: N
		(c) If significant ecological impacts are anticipated, are adequate protection measures taken to reduce the impacts on the ecosystem?	N
		(d) Is there a possibility that the amount of water (e.g., surface water, groundwater) used by the project will adversely affect aquatic environments?	N
		(e) Are adequate measures taken to reduce the impacts on aquatic environments, such as aquatic organisms?	N
	(3) Topography and Geology	(a) Is the stability of the existing topographic conditions adequately considered for alteration of topographic features, such as cut and fill operations?	N
		(b) Is there a possibility that soil runoffs will result from cut and fill areas, waste soil disposal sites, and borrow sites?	N
		(c) Are adequate mitigation measures taken to prevent soil runoffs?	N
		(d) Is there any possibility that the project will erode natural river bank, foreshore area, beaches?	N
	(4) Dolphin Observation	(a) Exclusive time spent for observing dolphins?	Y
	(5) Fish Catch Examination	(a) Fishermen upstream and downstream of dredging site interviewed and catch examined? Types of gears used?	Y
	(6) Flora (Aquatic & Terrestrial)	(a) Flora surveyed around the dredging and dredged material disposal sites	N
	(7) Benthos (Micro and Macro)	(a) Sampling done and analyzed; report submitted	Y
	(8) Phyto- & Zoo-Planktons	(a) Sampling done and analyzed; report submitted	Y
4. Social Environment	(1) Resettlement	(a) Is involuntary resettlement caused by project implementation? If involuntary resettlement is caused, are efforts made to minimize the impacts caused by the resettlement?	N
		(b) Is adequate explanation on compensation and resettlement assistance given to affected people prior to resettlement?	N
		(c) Is the resettlement plan, including compensation with full replacement costs, restoration of livelihoods and living standards developed based on socioeconomic studies on resettlement?	N
		(d) Are the compensations going to be paid prior to the resettlement?	N
		(e) Are the compensation policies prepared in document?	N
		(f) Does the resettlement plan pay particular attention to vulnerable groups or people, including women, children, the elderly, people below the poverty line, ethnic minorities, and indigenous peoples?	N
		(g) Are agreements with the affected people obtained prior to resettlement?	N

Category	Environmental Item	Main Check Items	Yes: Y No: N
		(h) Is the organizational framework established to properly implement resettlement? Are the capacity and budget secured to implement the plan?	N
		(i) Are any plans developed to monitor the impacts of resettlement?	N
		(j) Is the grievance redress mechanism established?	N
	(2) Living and Livelihood	(a) Is there a possibility that the project will adversely affect the living conditions of inhabitants? Are adequate measures considered to reduce the impacts, if necessary?	N
		(b) Is sufficient infrastructure (e.g., hospitals, schools, and roads) available for the project implementation? If the existing infrastructure is insufficient, are any plans developed to construct new infrastructure or improve the existing infrastructure?	N
		(c) Is there a possibility that large vehicles traffic for transportation of materials, such as raw materials and products will have impacts on traffic in the surrounding areas, impede the movement of inhabitants, and cause any risks to pedestrians?	N
		(d) Is there a possibility that diseases, including infectious diseases, such as HIV, will be brought due to the immigration of workers associated with the project? Are adequate considerations given to public health, if necessary?	N
	(3) Heritage	(a) Is there a possibility that the project will damage the local archeological, historical, cultural, and religious heritage sites? Are adequate measures considered to protect these sites in accordance with the country's laws?	N
	(4) Landscape	(a) Is there a possibility that the project will adversely affect the local landscape? Are necessary measures taken?	N
	(5) Ethnic Minorities and Indigenous Peoples	(a) Are considerations given to reduce impacts on the culture and lifestyle of ethnic minorities and indigenous peoples?	N
		(b) Are all of the rights of ethnic minorities and indigenous peoples in relation to land and resources respected?	N
	(6) Working Conditions	(a) Is the project proponent not violating any laws and ordinances associated with the working conditions of the country which the project proponent should observe in the project?	N
		(b) Are tangible safety considerations in place for individuals involved in the project, such as the installation of safety equipment which prevents industrial accidents, and management of hazardous materials?	N

Category	Environmental Item	Main Check Items	Yes: Y No: N
5. Others		(c) Are intangible measures being planned and implemented for individuals involved in the project, such as the establishment of a safety and health program, and safety training (including traffic safety and public sanitation) for workers etc.?	N
		(d) Are appropriate measures being taken to ensure that security guards involved in the project do not violate safety of other individuals involved, or local residents?	N
	(1) Impacts during dredging/construction	(a) Are adequate measures considered to reduce impacts during construction (e.g., noise, vibrations, turbid water, dust, exhaust gases, and wastes)?	N
		(b) If construction activities adversely affect the natural environment (ecosystem), are adequate measures considered to reduce the impacts?	N
	(2) Accident Prevention Measures	(a) Does the project have any accident prevention equipment and scheme to store, emit and transport toxic and hazardous materials?	N
	(3) Monitoring	(a) Does the proponent develop and implement monitoring program for the environmental items that are considered to have potential impacts?	N
		(b) What are the items, methods and frequencies of the monitoring program?	N
		(c) Does the proponent establish an adequate monitoring framework (organization, personnel, equipment, and adequate budget to sustain the monitoring framework)?	N
		(d) Are any regulatory requirements pertaining to the monitoring report system identified, such as the format and frequency of reports from the proponent to the regulatory authorities?	N

Table 8: Grievance Redressal Mechanism (GRM) Checklist, Lot-3 January 2025

Sl no.	Factors	Checklist Items	Dredging Activity				Comments/Compliance
			Daily	Weekly	Monthly	Quarterly	
1	Legal and Regulatory Compliance	1 The contractors communicate to all the stakeholders regarding GRM processing and lodging complaints.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	√	
		2 Contact details for lodging grievance easily accessible.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	√	
2	Community Engagement	1 Consultations have been conducted with local communities, dredging contractors to collect their input on the GRM design.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	√	
		2 The preferences of social customs and cultural sensitivities of the project affected communities taken into consideration.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	√	

Consultancy Services for: Supervision and Monitoring of Performance-Based Dredging Contracts with Maintenance Dredging and Installation and Maintenance of Navigational Aids along the Navigational Routes under the Contract

SI no	Factors	Checklist Items		Dredging Activity				Comments/Compliance
				Daily	Weekly	Monthly	Quarterly	
		3	FGD on GRM with the Project Affected Persons (PAPs)	○	○	○	√	
3	Grievance Channels	1	The multiple accessible channels available for the stakeholders to submit their grievances. (e.g., toll-free hotline, online platform, drop box, post, landline/mobile phone and e-mail).	○	○	○	√	
4	Processing of GFA (Good Faith Agreement)	1	Dyke/Land selection survey.	○	○	√	○	Route no.21; Route no. 13 & Route no. 16
		2	Opinion meeting with land owner along with inform to the contractor and S1A team for justifying land as dyke.	○	○	√	○	
		3	GFA documentation collection.	○	○	√	○	
		4	GFA will be submitted to S1A.	○	○	√	○	
		5	FGD on GFA with the Locals	○	○	○	√	
5	Constitution of GRM Protocol	1	Preparation of GRM Protocol and Grievance Redress Committee (GRC) will be Constituted by the Contractors.	○	○	○	√	
6	Establish a Complaint Box	1	For receive feedback, suggestions and complain letters.	○	○	√	○	Not found/observed at site for all route in lot_3
7	Establish a Signboard	1	The size (5/15) of Bill board will according the BOQ	○	○	√	○	Not found/observed at site for all route in lot_3
		2	Name, Mobile number and email of the focal person will be included in the Bill board.	○	○	√	○	Not found/observed at site for all route in lot_3
8	3 (three) tiers of the GRM Committee will be formed	1	Local level GRC (Committee members 05, quorum fulfill at least 03) -Project related issues.	○	○	○	√	Local level GRC committee formed by Banga contractor on dated 14th October,2023
		2	Contractor level GRC (Committee members 03, quorum fulfill at least 03)- GBV, CoC, Contractor's workers occurrence etc. related issues.	○	○	○	√	Local level GRC committee formed by Banga contractor on dated 14th October,2023
		3	Project level GRC (Committee members 03, quorum fulfill at least 03)	○	○	○	√	Local level GRC committee formed by Banga contractor on dated 14th October,2023
9	Capacity Building	1	Project staffs and local institutions have received training on the GRM, GBV related issues and its operation.	○	○	○	√	
10	Leaflet/ Brochure	1	The Leaflet/ Brochure will be published for dissemination to all the stakeholders.	○	○	○	√	
11	Monitoring, Reporting & documentation	1	The regular reports generated to document the number, nature, and resolution of grievances (Registration Book, Resolution book / Decision book & Closing book)	○	○	√	○	Route no.21, 16 & 13
12	Social Consultation	1	Local Community	○	○	√	○	Route no.21, 16 & 13
		2	Land Owner	○	○	√	○	Route no.21, 16 & 13
		3	Local Government Authority	○	○	○	√	no
13	Gender-Based	1	Sex Violence by an intimate partner	○	○	○	√	None of these has been found/observed for the month of

Consultancy Services for: Supervision and Monitoring of Performance-Based Dredging Contracts with Maintenance Dredging and Installation and Maintenance of Navigational Aids along the Navigational Routes under the Contract

Sl no	Factors	Checklist Items		Dredging Activity				Comments/Compliance
				Dail y	Weekl y	Monthl y	Quarterl y	
	Violence (GBV)	2	Sexual violence by a non-peer	○	○	○	√	January, 2025
		3	Child sexual abuse & forced marriage	○	○	○	√	
		4	Sexual exploitation & abuse	○	○	○	√	
		5	Sexual harassment	○	○	○	√	
		6	In case of emergency, the local level GRC will address the matter within 04 -12 hours.	○	○	○	√	When required