



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



Bangladesh Inland Water Transport Authority (BIWTA)



The World Bank



## MONTHLY PROGRESS REPORT DECEMBER 2024

**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 (December 2024):

This report outlines the progress and challenges encountered during Phase-II capital dredging activities for Lots 2 and 3 up to December 31, 2024. Key updates include dredging progress, environmental assessments, and social and resettlement activities. The findings highlight the need for stricter adherence to environmental and social guidelines, as well as proactive engagement with local stakeholders to address challenges.

### Dredging Activities

**Lot-2:** No dredging work was carried out in December 2024. A hydrographic survey for Phase II was conducted by S1A Consultants on Route 09 (Salimganj).

The status of navigational aids installation for BRWTP projects in Lots 2 and 3 show substantial progress. For Lot-2, 100 P.C. poles, 33 lighted buoys, and a remote monitoring system have been completed, while the installation of 24 lighted tower beacons is under progress.

**Lot-3:** Dredging began at Route 21 (Laharhat–Bheduriya) on October 10, 2024, and at Route 13 (Alubazar–Horina) on November 25, 2024. The cumulative dredging volume reached approximately 3,66,696 m<sup>3</sup> by December 31, 2024.

The status of navigational aids installation for the BRWTP-1 project in Lot-3 is as follows: 75 P.C. poles, six lighted buoys, and five lighted tower beacons have been successfully installed. However, the remote monitoring system has not yet been incorporated. Joint inspections confirm the satisfactory performance of the installed aids to navigation. The timely completion of the remaining tasks, including the installation of additional lighted tower beacons and the remote monitoring system, is crucial for the project's success.

## Environmental Assessment

Monthly monitoring was conducted at various Routes in Lot 2 and 3. No significant air, noise, water or soil pollution was observed. All parameters remained within standard limits. No fish mortality or Ganges River Dolphin sightings were reported near dredging sites. However, extensive fishing activities were observed, with 23 fish species and 2 crustaceans recorded in Lot-2 routes, and 30 fish species and 5 crustaceans in Lot-3 routes. In Lot 3, efforts should be made to adhere to environmental best practices, ensuring that reed lands remain undisturbed and alternative, eco-friendly materials are used for dike stabilization to preserve ecological characteristics.

## Social and Resettlement Status

### Lot-2:

74 disposal sites were identified, with 67 Good Faith Agreements (GFAs) completed in compliance with the World Bank's safeguard policies. Challenges in documentation and coordination with government offices were reported.

### Lot-3:

Twenty-three disposal sites have been identified, and ongoing engagement with local political leaders is facilitating progress. Discussions have highlighted their interest in utilizing dredged material for pond filling, and their cooperation will be instrumental in optimizing site selection.

## Key Challenges and Recommendations

**Land Ownership Confirmation:** The AC Land Office must confirm whether proposed disposal sites are *khas* land to ensure legal compliance.

**Resolution of Local Political Issues:** Contractors must engage with local stakeholders to address disputes and facilitate cooperation.

**Adherence to EMP Guidelines:** To ensure compliance with the Environmental Management Plan (EMP) in Lot 3, proactive measures should be taken, including adopting environmentally friendly stabilization methods and preserving reed lands. Implementing sustainable alternatives will enhance ecological balance and project sustainability.

**Monitoring and Reporting:** Regular site visits should ensure compliance with environmental and project management standards. Progress and compliance reports must be submitted, focusing on resolving local challenges and addressing EMP violations.

## Conclusion

In December 2024, significant progress was achieved in Lot 3, including dredging operations and hydrographic surveys. However, environmental and political challenges require immediate attention. Lot 2 lags in preparation for Phase II, necessitating proactive measures to meet timelines.

The S1A team recommends continued engagement with stakeholders, strict adherence to regulatory guidelines, and improved monitoring to ensure sustainable progress and project success.

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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

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### 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 <sup>st</sup> December 2022; Duration of Contract 66 months
Date of Commencement	:	6 <sup>th</sup> 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

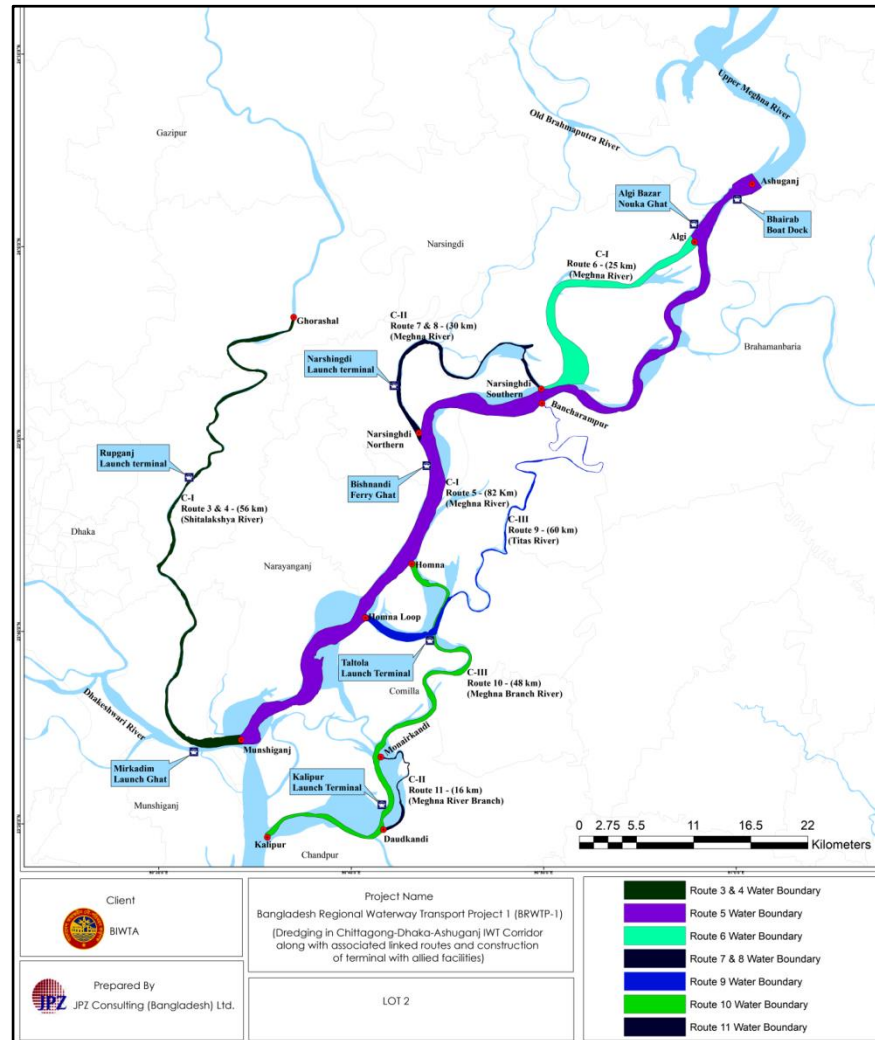


Figure 1: River Boundary Lot-2

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-Doutkandi approach)	48	400	-
II	11	Gumti (Meghna loop approaching Dautkandi)	16	300	1.60
<b>Total</b>			<b>317</b>		<b>28.40</b>

## 1.3 LOT-3

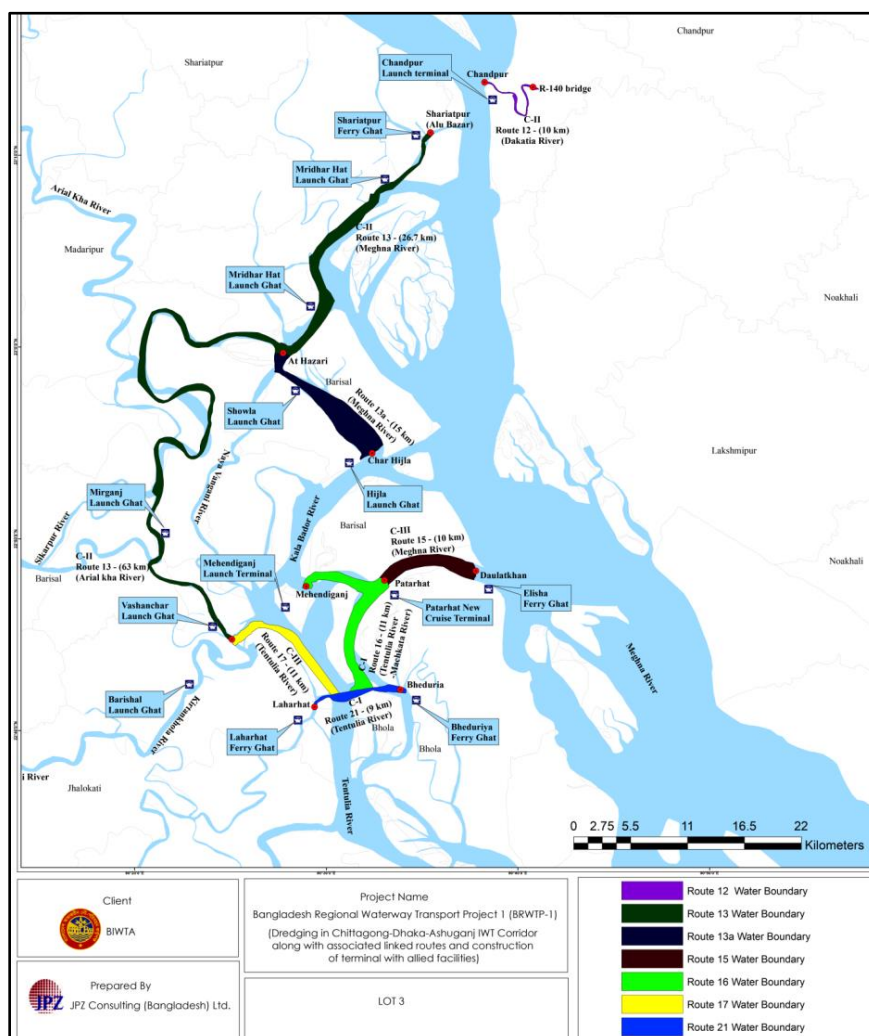


Figure 2: River Boundary, Lot-3

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:

No dredging work was carried out at the Lot-2 site in December 2024. The monitoring hydrographic survey (Multibeam) for Phase II was conducted by S1A Consultant. The following table provides details of all the survey work conducted by the S1A Consultant in December.

**Table 3: Monitoring hydrographic survey (Multibeam) work for Phase-II done by S1A Consultant**

Date	Route No	Location	Chainage	Remarks
16-December 2024 to 19-December 2024	Route 3&4	Shitalakshya (Ghorashal to Munshiganj).	Chainage completed: 0+000 to 23+000	Jointly Hydrographic Pre-survey (Multibeam)
08-December to 11-December 2024	Route 05	Meghna (Ashuganj to Munshiganj).	Chainage completed: 0+000 to 85+500	Jointly Hydrographic Pre-survey (Multibeam)
10-December 2024	Route 06	Location: Meghna (Nabinagar Loop joining route 5)	Chainage completed: 0+000 to 1+050	Jointly Hydrographic Pre-survey (Multibeam)
26-December-2024 to 29-December-2024	Route 06	Meghna (Nabinagar Loop joining Route 5)	Chainage completed: 0+000 to 27+200	Monitoring hydrographic survey
12-December & 15-December to 16-December 2024	Route 10	Meghna (Homna to Dautkandi approach)	Chainage completed: 0+000 to 49+000	Jointly Hydrographic Pre-survey (Multibeam)
12-December to 15-December 2024.	Route 11	Gumti (Meghna loop approaching Dautkandi)	Chainage completed: 0+000 to 13+130.	Jointly Hydrographic Pre-survey (Multibeam)
24-December 2024.	Route 11	Gumti (Meghna loop approaching Dautkandi).	Chainage completed: 1+000 to 13+130	Monitoring hydrographic survey

##### Lot-3:

In December 2024 Survey work was done by BRWTP-S1A on River Routes 13, and 21 of Lot-3 Site. The following Table illustrates details of the survey work.

**Table 4: Survey work for Phase-II done by BRWTP-S1A- Lot-3**

Date	Route No	Location	Chainage	Remarks
28 December, 2024	Route 13	Meghna and Arial Khan	Chainage completed: 0+000 to 0+850	Post survey work for phase-II
15 December 2024	Route 13	Meghna and Arial Khan	Chainage completed: 0+250 to 0+800	Engineering survey work
26 December 2024 to 27 December 2024	Route 21	Tentulia (Laharhat to Bheduriya)	Chainage completed: 6+200 to 8+600	Post survey work for phase-II
: 05 December 2024 & 23 December 2024	Route 21	Tentulia (Laharhat to Bheduriya)	8+500 to 6+200	Engineering survey work

The Lot-3 contractor has started Capital dredging for Phase II at Route 21 (Laharhat – Bhedhuriya) on 10.10. 2024, at Route 13 (Alubazar–Horina) on 25.11.2024. The Cumulative Dredging Volume was estimated at 447520.84m<sup>3</sup> (Approx) up to 31st December 2024. Detailed Table is in Annexure II.

## **Status Report on Navigational Aids Installation at Dredging Sites:**

Although the installation of Navigational Aids has been satisfactorily completed in two Lots, some final tasks remain in progress. On 31st December 2024, BRWTP-S1A issued a request letter to the respective authorities of BRWTP-W1A-02 and BRWTP-W1A-03, urging them to expedite the completion of the remaining tasks: the installation of lighted tower beacons for BRWTP-W1A-02 and the incorporation of the Remote Monitoring System for BRWTP-W1A-03, as outlined in the contract agreements. The timely completion of these tasks is critical and requires immediate attention. The cooperation of all relevant parties is essential to ensure the successful and on-schedule delivery of the project.

### **Status of Installation of Aids to Navigation as of 31st December 2024 along the Routes under BRWTP-W1A-02, Contractor: GULF COBLA-KARNAFULY JV**

The BRWTP-W1A-02 project has achieved significant progress in the installation of Aids to Navigation along the designated routes under Lot-02, as confirmed during a field visit conducted by the joint inspection team. The team comprised representatives from PIU, BRWTP-S1A, the Superintendence Committee (Aids to Navigation), the Ports and Transport Department, BIWTA, and BRWTP-W1A-02. The following works have been completed:

#### Installation of P.C. Poles:

A total of 100 (one hundred) P.C. poles with the required top markers have been successfully installed across all designated routes under Lot-02, as per the contract. The joint team inspected each pole by traveling the entire river waterways within Lot-02. The inspection reports from the joint team were found to be satisfactory.

#### Installation of Lighted Buoys:

A total of 33 (thirty-three) IALA-approved lighted buoys with necessary top markers have been strategically placed at various recorded positions, as per the requirements of the end-users (C&P Department, BIWTA, and Ports & Transport Department, BIWTA). The joint team inspected all the deployed lighted buoys, closely observing their operations, including the flashing lights. All buoys and their mountings were found to be operating without any issues.

#### Remote Monitoring System:

A remote monitoring system has been successfully incorporated into all the lighted buoys, with the required number of active GP SIM cards installed. The system is ready for the final joint inspection, which is expected to take place soon.

#### Installation of Lighted Tower Beacons:

The contractor has reported noticeable progress in the ongoing installation of 24 (twenty-four) lighted tower beacons along the designated routes, as per the contract agreement.

**Table 5: Summary of Navigational Aids Installation Status up to December 2024, Lot-2**

Sl. No.	Item	Status
1	P.C. Poles (Total 100 Numbers)	Completed
2	Lighted Buoys (Total 33 Numbers)	Completed
3	Lighted Tower Beacons (Total 24 Numbers)	In Progress
4	Remote Monitoring System with activated SIM cards	Completed

**Status of Installation of Aids to Navigation as of 31st December 2024 along the Routes under BRWTP-W1A-03, Contractor: DHARTI-BANGA JV**

The contractor for BRWTP-W1A-03 has achieved the following progress in the installation of Aids to Navigation along the designated routes under Lot-03:

Installation of P.C. Poles:

A total of 75 (seventy-five) P.C. poles with the required top markers have been successfully installed along all designated routes under Lot-03, as per Contract Number BRWTP-W1A-03. The joint inspection team traveled along the entire river waterways in Lot-03 and inspected each pole. The team's inspection report was found to be satisfactory.

Installation of Lighted Buoys:

A total of 6 (six) IALA-approved lighted buoys with the necessary top markers have been deployed at recorded positions based on the requirements of the end-users (C&P Department, BIWTA, and Ports & Transport Department, BIWTA). The joint team inspected each buoy and closely observed their operations, including the flashing lights. All deployed buoys and their mountings were found to be functioning smoothly and without defects.

Installation of Lighted Tower Beacons:

A total of 5 (five) lighted tower beacons have been installed along the designated routes. The joint team's inspection report confirmed that all installed lighted tower beacons were operating without defects.

Remote Monitoring System:

As of now, no remote monitoring system has been incorporated.

**Table 6: Summary of Navigational Aids Installation Status for Lot-03 Sites (as of December 2024):**

Sl. No.	Item	Status
1	P.C. Poles (Total 75 Numbers)	Completed
2	Lighted Buoys (Total 6 Numbers)	Completed
3	Lighted Tower Beacons (Total 5 Numbers)	Completed
4	Remote Monitoring System with activated SIM cards	Not yet done

## 2.2.2 Environmental Quality Assessment:

The S1A team reviewed the environmental data provided by the Contractors' monitoring team. For this month (December 2024), monthly monitoring was conducted at Route 09 Bancharampur/Homna Loop named Salimganj under Lot-2, as well as River Routes 13, 13a & 12 under Lot-3. The details of the sample collection locations are presented in the table below:

**Table 7: Sample Collection Locations in this month (December 2024)**

Month	Environmental Variables.	Lot2	Lot-3
		River Name and Sample Collection Location	River Name and Sample Collection Location
December, 2024	Ambient air quality in and around the dredging site	River Route-09 (Bancharampur/Homna Loop named Salimganj)	River Route- 13: Meghna and Arial Khan (Shariatpur-Bheduria) River Route-13a: Meghna (Looping root Inside Char Hsla)
	Noise level quality assessments		
	Underwater Noise Level		
	Surface Water Quality		
	Riverbed Sediment		
	Dredged Material		
	Aquatic Fauna (Fish, Dolphin, Turtle)		

In this case, the S1A team has been consistently recommending that the ongoing dredging work be considered when selecting sapling sites along the routes. However, the contractors' team has been collecting samples without a proper plan.

No significant air, noise, water, and soil pollution issues were noted and none of the test parameters deviated from the standard limits. Additional details can be found in Annex- VII. During this reporting period no visible fish mortality observed within and around the dredging site location.

Fishing activities were observed in different locations of Route 09 of Lot-2. The fish species composition is determined through direct observation and consultations with local fishers. During the reporting month, twenty-three (23) species of fish and two (02) species of crustaceans were observed in the surveyed routes. During the monthly visit in December 2024, the study team did not encounter any Ganges River Dolphin (*Platanista gangetica*) along the surveyed route and did not observe any kind of visible fish mortality.

In this reporting month, extensive fishing activities were observed in Lot-3 sites. Thirty (30) species of fish were observed to catch in the River Routes 12, 13 & 13a. In addition, five (05) species of crustacean species (prawn) were also observed to be caught in the river. The study team did not identify or witness any discernible instances of fish mortality within the dredging and its adjacent areas. The study team did not observe any Ganges River Dolphin (*Platanista gangetica*) near the dredging site, dredger placement, and adjacent areas (500m upstream and downstream area) during this month. The local people and fishermen in the study area confirmed the occasional presence of Ganges River Dolphin (*Platanista gangetica*) near the Isanbala ghat on Route 13 and near Route 12. Also, during the survey, no turtle sightings were recorded within the dredger placement area, dredging site, dike area, adjacent area, or along River Routes 12, 13, and 13a.

### 2.2.3 Social and Resettlement Aspects:

#### Social and Resettlement Status for Phase-II Capital Dredging Activities up to December 2024

##### Lot-2 Progress Update (Up to 31st December 2024)

**Disposal Site Identification:** 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 6, 7, 8, 9, and 11. Seven sites were selected on Route 9 and operated by the district administration of Brahmanbaria. Detailed Charts are in Annex IV.



**Dike Location Management:** In May 2024, it was decided that the Government, in coordination with PIU, BIWTA, and BRWTP-S1A, would oversee dike location selection, eliminating the need for additional GFAs on Routes 6, and 7&8.

**PIU Directives:** The PIU informed the S1A consultant that, since the Government now manages the land selection and sand procurement (as of May 2, 2024), GFAs are no longer required.

**Documentation Challenges:** The S1A consultant faced difficulty obtaining contract documents from Government offices and landowners. The consultant recommends that the PIU confirm with the Government if these documents are necessary for record-keeping.

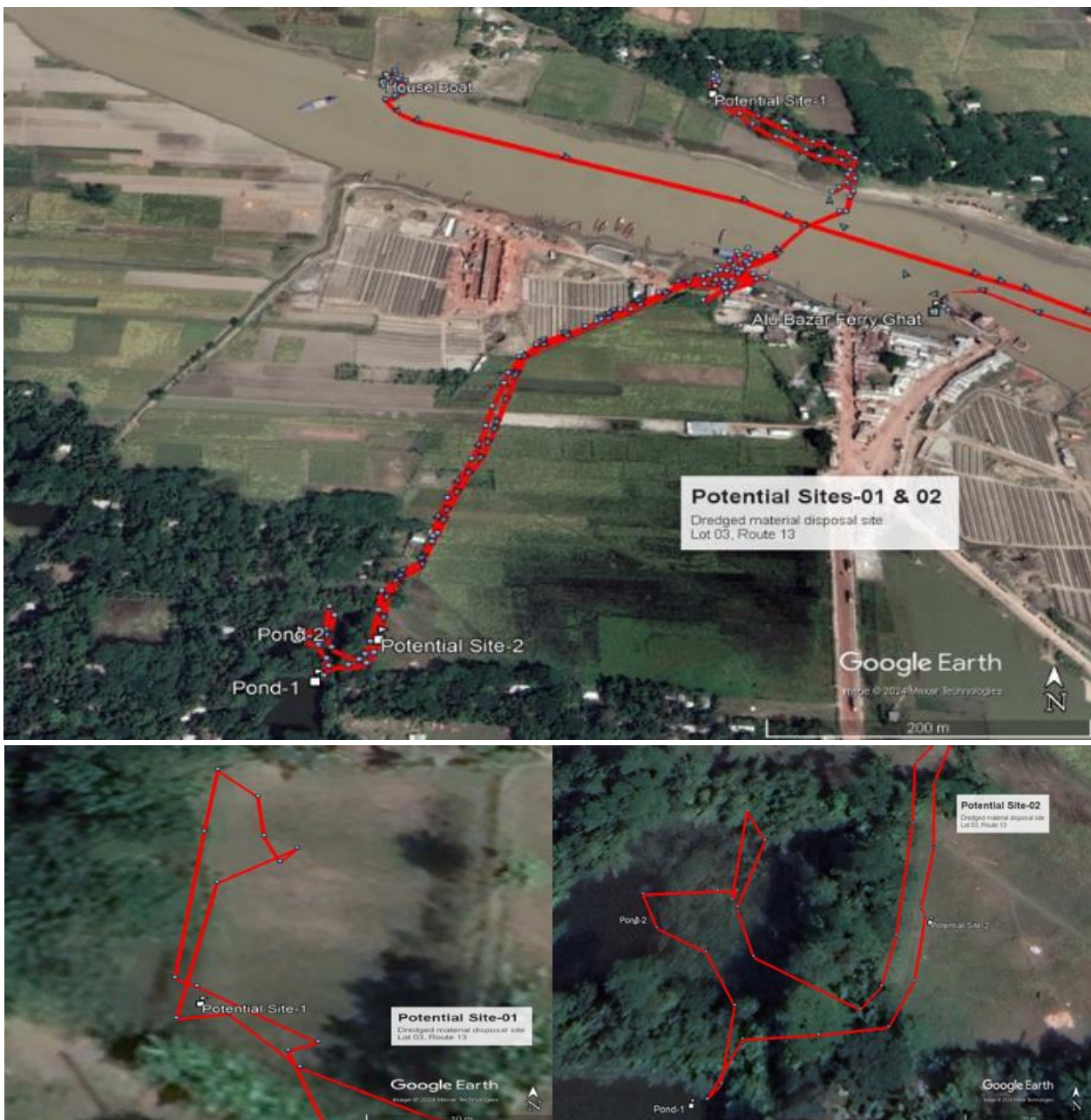


Figure 3: Location of the Potential Sites



**Land Use and Impact Analysis:** The river course in Lot 2 predominantly flows through human settlements. Most of the dike locations are situated in agricultural areas or community-used spaces. The breakdown of land use and pictures of Good-Bad Practices are attached in Annex I.

### **Lot-3 Progress Update (Up to 31st December 2024)**

A total of 23 disposal sites have been identified in the Lot-3 areas, with details provided in Annex-V. While progress on Lot 3 (Route 13) has faced challenges due to local political transitions and the need for stricter EMP compliance, significant opportunities exist for resolution through proactive engagement. With potential disposal sites already identified, confirming land ownership, fostering collaboration with local stakeholders, and ensuring environmental compliance are key priorities to facilitate smooth project execution.

Following the political change on August 5, 2024, the leadership overseeing the area, including the leaseholder of the AluBazaar Ferry Ghat, has shifted. This presents an opportunity to establish new agreements that align with regulatory requirements. Moving forward, efforts will focus on implementing sustainable disposal practices, ensuring reed land preservation, and adopting environmentally friendly materials for dike stabilization to maintain ecological balance and project integrity.

Several potential sites for the disposal of dredged material were identified during the visit on the 24th of December at Alubazar. Local politics pose significant challenges to project progress. Neither the contractor nor the S1A field staff initially disclosed these issues. It is the contractor's responsibility, not S1A's, to resolve such local political challenges.

A detailed discussion was held with a local political leader. His interest lies in having ponds owned by him be filled up with dredged materials. After discussions, he assured his support in identifying suitable disposal sites. The team visited all potential disposal sites in the area. Based on these assessments, two sites have been proposed for dike construction. These sites are marked on the accompanying map. The land type of these proposed sites is Cultivable land, possibly khas land (ownership to be confirmed by the AC Land Office). Photographic evidence of EMP and CEAP violations has been documented (in Annex-I).

### **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 fellow land PIU should start correspondence with the competent authority of The Government of Bangladesh.

### **Communication and Public Consultation:**

Meetings and Consultations were conducted within this period regarding the dredging with the Government administrating, PIU, and local community people for solving local community problems. The social and safeguard team of S1A Consultant has communicated at the field level with local people, local administration, and local elites regularly.

**Table 8: Interaction with Clients/Contractors and other Stakeholders (December, 2024)**

SN	Date	Venue	Meeting Agenda	Participants
1.	04.12.2024	PIU Conference Room	Video Presentation and Lot-3 Issues	PIU, S1A Consultant and Lot-3 Contractors Representatives
	05.12.2024	PIU conference room.	Progress meeting on Lot-2 Dredging activity.	PIU, S1A Consultant and Lot-2 Contractors Representatives
2.	05.12.2024	S1A Meeting Room	Internal Progress and Planning Meeting Regarding Dike Selection Issues for both Lot-2 and Lot-3 Sites	S1A Consultant Team
3.	05.12.2024	Market Place beside Alubazar Ferry Ghat, Lot-3 site.	Discussion on Dike 04 of River Route 13 and potential lands for use as dikes	S1A Consultant Team and Landowners, Local People of Alubazar area
4.	07.12.2024	Adjacent areas/village of River Route 13, Lot-3 Site	Possibilities of Dike No.4 extension.	S1A Consultant Team and Landowners, Local People of Alubazar area, and Contractor's Representatives
5.	08.12.2024	Market Place at Alubazar, Lot-3 site.	Consultation Meeting with landowners for Selecting appropriate Land for use as Dike.	S1A Consultant Team and Landowners, Local People of the Alubazar area, and Contractor's Representatives
		Small Market Place near Cargo Terminal, Ashuganj, Route 05 (Meghna: Ashuganj to Munshiganj) Lot-2 site.	Consultation Meetings with landowners and local people for Selecting appropriate Land for use as Dike and share the Positive impacts of dredging work.	S1A Consultant Team and Landowners, Local and Contractors Representatives
6.	19.12.2024	PIU Conference Room	Development of Dredging Work of Phase-II and Completion of Phase-I, Submission of CEMP, DDMP, etc.	PIU, S1A Consultant, Lot-3 Contractor representatives.
7.	24.12.2024	Adjacent areas/village of River Route 13, Lot-3 Site, (Chandpur and Shariatpur)	Discussion with the local community/stakeholders regarding the disposal area location selection.	BRWTP-S1A Consultant Team and Dharti-Banga Contractors representative

### **Field activities, BRWTP-S1A expert (December 2024):**

To monitor and supervise the field activities, BRWTP-S1A experts and field staff frequently visited sites when and where necessary. In this reporting period, preparatory work was done by both Contractors, and detailed survey work done by BRWTP-S1A and the contractor. 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 7: Monthly Progress of GRM Report, December, 2024 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.

### 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 assessed the ESHS situation, Worker Employment, and Working conditions, Occupational Health and Safety (OHS) status during the reporting period. Considering the safety of workers and the public during the dredging process, data were collected through field observation during site visits and from the monitoring reports of both Contractors. The collected data is shown 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
	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

ESHS Issues	Parameters	Lot-2	Lot-3
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:

No survey or dredging activities during this reporting period. During the monitoring period on Route 09, no active dredger was observed.

### 2.2.2 Environmental Quality Assessment of Lot-2 Sites:

No significant air, noise, water, and soil pollution issues were noted and none of the test parameters deviated from the standard limits. Additional details can be found in Annex- V. During this reporting period no visible fish mortality was observed within and around the dredging site location.

Fishing activities were observed in different locations of Route 09 of Lot-2. The fish species composition is determined through direct observation and consultations with local fishers. During the reporting month, twenty-three (23) species of fish and two (02) species of crustaceans were observed in the surveyed routes. During the monthly visit in December 2024, the study team did not encounter any Ganges River Dolphin (*Platanista gangetica*) along the surveyed route and did not observe any kind of visible fish mortality. Details are in Annexure VII.

### 2.2.3 Social and Resettlement Aspects at Lot-2 Site:

So far, 74 disposal sites have been identified within the Lot-2 areas, of which 67 Good Faith Agreements (GFAs) have been completed following the World Bank's safeguard policy for Routes 6, 7, 8, 9, and 11. The remaining seven sites on Route 9 are newly selected and operated by the district administration of Brahmanbaria District.

In May 2024, during a meeting at the office of the Deputy Commissioner of Brahmanbaria, it was decided that the selection of dike locations would be managed by the Government administration in coordination with the Project Implementation Unit (PIU), the Bangladesh Inland Water Transport Authority (BIWTA), and the Consultant, BRWTP-S1A, as necessary. The same process will be followed for Routes 6 and 7 & 8, as agreed upon by the Deputy Commissioner of Narsingdi and PIU officials. Following this decision, no further Good Faith Agreements (GFAs) will be required between BRWTP-1 and landowners for the selection of dike locations. The locations of these dredged material disposal areas are provided in Annexure I.

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

### **2.3.1 Development and Maintenance Dredging Works:**

Capital dredging for Phase-II started at Route 21 (Laharhat – Bhedhuriya) on dated 10-10-2024 and at Route 13 (Alubazar – Horina) on dated 25-11-2024. During December 2024, three dredgers (Banga Jamuna, Banga Shitalakkhya, and Banga Padma) were operating on Route No. 21 and Route No. 13. The total Cumulative Dredging Volume up to 31st December 153,686 m<sup>3</sup> (Approx.). The detail Table is in Annexure II.

### **2.3.2 Environmental Quality Assessment of Lot-3 Site:**

In this reporting month, extensive fishing activities were observed in Lot-3 sites. Thirty (30) species of fish were observed to catch in the River Route 12, 13 & 13a. In addition, five (05) species of crustacean species (prawn) were also observed to be caught in the river. The study team did not identify or witness any discernible instances of fish mortality within the dredging and its adjacent areas. The study team did not observe any Ganges River Dolphin (*Platanista gangetica*) near the dredging site, dredger placement and adjacent areas (500m upstream and downstream area) during this month. However, EIA of Bangladesh Regional Waterway Transport Project 1, discussion with local people and fisherman in the study area confirmed the occasional presence of Ganges River Dolphin (*Platanista gangetica*) near the Isanbala ghat in the route 13 and near route 12. Also, during the survey, no turtle sightings were recorded within the dredger placement area, dredging site, dike area, adjacent area, or along River Routes 12, 13 and 13a.

### **2.3.3 Social and Resettlement Aspects at Lot-3 Site:**

A total of 23 disposal sites have been identified in Lot-3 areas, details are in Annex-V. The progress on Lot 3 (Route 13) has been impeded by local political issues and non-compliance with the EMP. While potential disposal sites have been identified, urgent action is needed to confirm land ownership, resolve political conflicts, and address environmental violations.

Several potential sites for the disposal of dredged material were identified during the visit on 24th of December at Alubazar. Local politics pose significant challenges to project progress. Neither the contractor nor the S1A field staff initially disclosed these issues. It is the contractor's responsibility, not S1A's, to resolve such local political challenges.

A detailed discussion was held with a local political leader. His interest lies in having his ponds filled up with dredged materials. After discussions, he assured his support in identifying suitable disposal sites. The team visited all potential disposal sites in the area. Based on these assessments, two sites have been proposed for dike construction. These sites are marked on the accompanying map. Land Type of these proposed sites are Cultivable land, possibly khas land (ownership to be confirmed by the AC Land Office). Photographic evidence of these violations has been documented (In Annex-I)



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

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### 3.1 ACHIEVEMENT OF THIS MONTH (DECEMBER 2024):

#### **S1A**

- a) Monitoring hydrographic survey on Routes 11, and 06 have been carried out throughout the month of December 2024 under Lot-2.
- b) Monitoring hydrographic survey has been carried out between 15th to 30th December 2024 on Routes 13 and 21 covering various chainage under Lot 3.

#### **LOT-2**

- a) Jointly pre-hydrographic survey was carried out from 8<sup>th</sup> to 16<sup>th</sup> December along the route of 3&4, 5,6,10 and 11.
- b) Monthly Environmental and Social Activities have been conducted.
- c) Field visits were carried out by the S1A-ESHS team.

#### **LOT-3**

- a) Engineering Surveys were carried out along the Routes 13 and 21 for Phase-II under Lot-3.
- b) Monthly Environmental, Social, and GRM activities have been conducted the observations have been communicated to the contractor and PIU.
- c) Field visits were carried out by the S1A-ESHS team.

### 3.2 NEXT MONTH PLAN:

#### **S1A Consultant Action Plan**

##### ***1. Verification of Land Ownership***

- Coordinate with the AC Land Office to confirm the ownership status of potential disposal sites (khas lands) 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 identify and report EMP violations at dike sites in Lot-3.

- Ensure that reed lands are not filled without prior environmental assessments and that all necessary approvals are obtained.
- Oversee the discontinuation of polythene use for dike stabilization and the implementation of environmentally friendly alternatives.
- Provide technical guidance on sustainable stabilization methods and monitor their adoption.

#### **4. Monitoring and Reporting**

- Perform regular site visits to assess compliance with environmental and project management standards.
- Review and validate contractor-submitted progress and compliance reports, with a focus on addressing local challenges and EMP violations.
- 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.
- d) The Lot-2 Contractor will accelerate the installation of Aids to Navigation.
- e) The Lot-2 Contractor's ESHS team is advised to carry out the recommended field visits during the execution of dredging operations.
- f) Preparatory work for Phase-II of the capital dredging will be continuing.

#### **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. e) The Lot-3 Contractor will continue hydrographic surveys for all routes, review relevant charts, and perform dredging work as necessary using standby dredgers.
- d) The Lot-3 Contractor will accelerate the installation of Aids to Navigation.
- e) The Lot-3 Contractor's ESHS team is advised to carry out the recommended field visits during the dredging operation.
- f) Preparatory work for Phase II of the capital dredging will be continuing.

## CHAPTER 04: CONCLUSION AND RECOMMENDATIONS

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### 4.1 Conclusion

During December 2024, significant progress was made in the Phase-II capital dredging activities for Lot 3 including hydrographic chart submissions, the commencement of dredging operations, and the installation of navigational aids.

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. Despite repeated advices from the S1A Consultant, the Lot-2 contractor yet to take necessary initiatives during this reporting period.

Based on coordination with PIU Safeguard Monitoring team, the S1A Consultant Team prepared documents for understanding the changes or impacts on social aspects of Lot-2 and Lot-3 site after completing the Phase-I timeframe. A report on the social impact of dredging activities, the pre- and post-status of the dikes, and the good and bad practices of selected disposal areas is being prepared as part of the Annual Report and Completion Report for Phase I.

## **CHAPTER 05: ANNEXURE**

**ANNEX I:**  
**Photos of Project Activities (December 2024)**

**Progress Meetings, 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



## Dikes before and after disposing dredged Material and Good and Bad Practices at Lot-2



**Figure 4: Dyke 26 at River Route-09 Before (Low Land: One Crop: Rice), After (High Land: Agricultural Practices for Two Crops, Pasture Land etc.)**





Figure 5: Dike -14 of Route 13 in the last monitoring of August 2024 and in current month monitoring

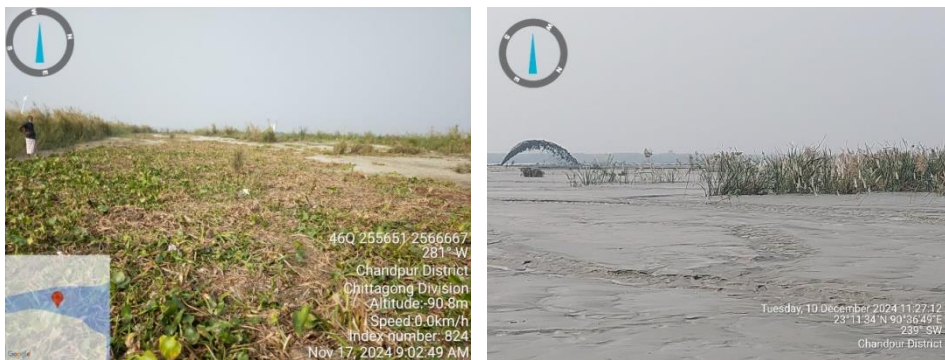


Figure 6 Dike -22 of Route 13 before dredge material disposal and Current condition

## ANNEX II: The Progress and Status of Dredging Activities

**Table 9: Dredging Work December 2024 at Lot-3 Site at a glance:**

Dredger Name and Route No.	Operation Date	Reason for stand by and delaying	Time of Dredging Hour (Avg.)	Chainage (m)	Cutting Length (m)	Avg. Cutting Depth (m)	Volume (Cum) Approx.	Dike No	Dredged Area and soil Type
Banga Jamuna Route No. 21	Total 30 days the dredger was operational and Standby 01 days in this Reporting period.	Shipping, Mechanical Breakdown, Floating Pipeline, Anchor Change, Cutter Head Cleaning, Low Water Level, Disposal Area problem and Others	9:55 Hours Daily	8+187 to 7+409 and 7+896 to 7+348 and 8+300 to 8+511 And 7+348 to 7+104	1730	1.5	108990	Dike No. 2 & 22	Ghagoria Union under Mehandiganj Upozilla in Barisal district and Silty Soils
Banga Shitalakkhya Route No. 21	The dredger was operational for a total of 13 days and on standby for 18 days. In this Reporting month, dredging was delayed for approximately 40 hours due to Disposal Area Construction purposes	Mechanical Breakdown, Floating Pipeline, Anchor Change, Disposal Area Construction.	6.46 Hours Daily	6+400 to 6+473 And 7+400 to 7+675 And 7+435 to 7+229	524	0.9	19807	Dike No. 20	Ghagoria Union Mehandiganj Upazilla Barisal district and Silty Soils
Banga Padma Route No. 13	Total 14 days the dredger was operational (1st December to 14th December 2024)	Mechanical Breakdown, Floating Pipeline, Anchor Change, and Others	12.15 Hours Daily	0+250 to 0+836	786	0.29	9400	Dike No. 04	Lokkhir Char (Ibrahimpur), Sadar upazilla Chandpur district and Silty Soils

Source: Monitoring Data Expert and Field support of S1A

**ANNEX III:**

**Field activities Records of BRWTP-S1A for the month of December, 2024**

**Table : Field Activities of BRWRP-S1A at Lot-2 Site**

Serial No	Date	Activity	Route name & Route number	Remarks
01	08.12.2024	Joint Hydrographic Pre-Survey with Contractor by BIWTA team For Phase-2 ongoing. Chainage: 84+600 to 85+000 Place: Ashuganj port area Length: 400 m	Meghna (Ashuganj to Munshiganj). BRWTP-S1A, Route-05 Lot_2	Single beam Survey
		Small Market Place near Cargo Terminal, Ashuganj, Route 05 (Meghna: Ashuganj to Munshiganj) Lot-2 site.	Consultation Meetings with landowners and local people for Selecting appropriate Land for use as Dike and share the Positive impacts of dredging work.	S1A Consultant Team and Landowners, Local and Contractors Representatives
02	09.12.2024	Joint Hydrographic Pre-Survey with Contractor by BIWTA team For Phase-2 ongoing. Chainage: 84+350 to 85+000 Place: Ashuganj port area Length: 650 m	Meghna (Ashuganj to Munshiganj). BRWTP-S1A, Route-05 Lot_2	Single beam Survey
03	10.12.2024	Joint Hydrographic Pre-Survey with Contractor by BIWTA team For Phase-2 ongoing. Chainage: 85+500 to 54+000 Place: Ashuganj to Dhoravanga Length: 31500 m	Meghna (Ashuganj to Munshiganj). BRWTP-S1A, Route-05 Lot_2	Multibeam Survey
		Chainage :0+000 to 1+050 Place : Char Madhua Length :1050 m	Meghna (Nabinagar loop joining route 5). BRWTP-S1A, Route-06 Lot_2	
04	11.12.2024	Joint Monitoring Pre Hydrographic Survey with Contractor by BIWTA team For Phase-2 ongoing. Chainage: 54+000 to 0+000 Place: Dhoravanga char Kishoreganj Length: 54000 m	Meghna (Ashuganj to Munshiganj). BRWTP-S1A, Route-05 Lot_2	Multibeam Survey
05	12.12.2024	Joint Monitoring Pre Hydrographic Survey with Contractor by BIWTA team For Phase-2 ongoing. Chainage: 0+000 to 19+000 Place: Daudkandi Length: 19000 m	Meghna (Homna to Dautkandi approach). BRWTP-S1A, Route-10 Lot_2	Multibeam Survey
		Chainage: 0+000 to 6+000 Place: Daudkandi Length: 6000 m	Gumti(Meghna loop approaching Dautkandi). BRWTP-S1A, Route-11 Lot_2	
06	13.12.2024	Joint Monitoring Pre Hydrographic Survey with Contractor by BIWTA team For Phase-2 ongoing. Chainage: 4+760 to 7+050 Place: Daudkandi Length: 2290 m	Gumti(Meghna loop approaching Dautkandi). BRWTP-S1A, Route-11 Lot_2	Single beam Survey

**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**

Serial No	Date	Activity	Route name & Route number	Remarks
07	14.12.2024	Joint Monitoring Pre Hydrographic Survey with Contractor by BIWTA team For Phase-2 ongoing. Chainage: 7+050 to 10+960 Place: Daudkandi Length: 3910 m	Gumti(Meghna loop approaching Dautkandi). BRWTP-S1A, Route-11 Lot_2	Multibeam Survey
08	15.12.2024	Joint Monitoring Pre Hydrographic Survey with Contractor by BIWTA team For Phase-2 ongoing. Chainage: 10+960 to 13+130 Place: Daudkandi Length: 2170 m  Chainage: 19+000 to 49+000 Place: Daudkandi to Homna Length: 30000 m	Gumti(Meghna loop approaching Dautkandi). BRWTP-S1A, Route-11 Lot_2  Meghna (Homna to Dautkandi approach). BRWTP-S1A, Route-10 Lot_2	Multibeam Survey
09	16.12.2024	Joint Monitoring Pre Hydrographic Survey with Contractor by BIWTA team For Phase-2 ongoing. Chainage: 19+000 to 0+000 Place: Daudkandi to Mollakandi Length: 19000 m  Chainage: 0+000 to 23+000 Place: Char Kishoreganj to Demra Length: 23000 m	Meghna (Homna to Dautkandi approach). BRWTP-S1A, Route-10 Lot_2  Shitalakshya (Ghorashal to Munshiganj). BRWTP-S1A, Route-3&4 Lot_2	Multibeam Survey
10	17.12.2024	Joint Monitoring Pre Hydrographic Survey with Contractor by BIWTA team For Phase-2 ongoing. Chainage: 23+000 to 60+500 Place: Demra to Ghorashal Length: 37500 m	Shitalakshya(Ghorashal to Munshiganj). BRWTP-S1A, Route-3&4 Lot_2	Multibeam Survey
11	18.12.2024	Joint Monitoring Pre Hydrographic Survey with Contractor by BIWTA team For Phase-2 ongoing. Chainage: 23+000 to 0+000 Place: Demra to Char Kishoreganj Length: 23000 m	Shitalakshya(Ghorashal to Munshiganj). BRWTP-S1A, Route-3&4 Lot_2	Multibeam Survey
12	19.12.2024	Joint Monitoring Pre Hydrographic Survey with Contractor by BIWTA team For Phase-2 ongoing. Chainage: 0+000 to 1+810 Place: Narayanganj Length: 1810 m	Shitalakshya(Ghorashal to Munshiganj). BRWTP-S1A, Route-3&4 Lot_2	Multibeam Survey
13	24.12.2024	Monitoring Hydrographic Survey with Ahydtech team ongoing. Chainage:13+100~1+000 Place:Char kataliya to Ramaikandi Length: 12100 m	Gumti(Meghna loop approaching Dautkandi). BRWTP-S1A, Route-11 Lot_2	
14	24.12.2024 and 25.12.2024	Sampling the Environmental data like as: 1. Inspection of air noise monitoring. 2. Observation of air noise level. 3. Under water noise monitoring. 4. Inspection of Dissolved oxygen, Water Ph, temperature etc 5. Sampling collection of water	BRWTP-S1A, Route-09, Lot_2	S1A Consultant Team and Contractors Representatives



Serial No	Date	Activity	Route name & Route number	Remarks
		upstream and downstream of the dredger for dissolved oxygen inspection. 6. Soil sample collection from the disposal area and the river bed for lab test.		
15	26.12.2024	Monitoring Hydrographic Survey with Ahdytech team ongoing. Chainage:0+000~5+800 Place:Char modua to Nilokha Length: 5800 m	Meghna (Nabinagar loop joining route 5). BRWTP-S1A, Route-06 Lot_2	
16	27.12.2024	Monitoring Hydrographic Survey with Ahdytech team ongoing. Chainage:5+800~11+800 Place: Nilokha to Mollikpur Length: 6000 m	Meghna (Nabinagar loop joining route 5). BRWTP-S1A, Route-06 Lot_2	
17	28.12.2024	Monitoring Hydrographic Survey with Ahdytech team ongoing. Chainage:11+800~21+200 Place: Mollikpur to Shahar khola Length: 94000 m	Meghna (Nabinagar loop joining route 5). BRWTP-S1A, Route-06 Lot_2	
18	29.12.2024	Monitoring Hydrographic Survey with Ahdytech team ongoing. Chainage:21+200~27+200 Place: Shahar khola to Tulatolu Length: 6000m	Meghna (Nabinagar loop joining route 5). BRWTP-S1A, Route-06 Lot_2	

**Table Field Activities of BRWRP-S1A at Lot-3 Site**

Serial No.	Date	Activity	Route name & Route number	Remarks
1.	03.12.2024	Dredging work and New disposal area visit.	Route number 13 (North Athazar-Alubazar-Horina) and Launch Terminal	Advisor, PIU, S1A Consultant Team
	05.12.2024 to 10.12.2024	Focus group discussion and new disposal area visit and discussion/meeting with local people at Alubazar. New Disposal Area Dyke no.05	Route number 13 (North Athazar-Alubazar-Horina)	S1A Consultant Team and Landowners, Local People of Alubazar area
2.	05.12.2024	Small Market Place at Alubazar, Lot-3 site.	Discussion on Dike 04 of River Route 13 and Probable lands for use as dikes	S1A Consultant Team and Land owners, Local People of Alubazar area
		Engineering survey work done for lot 3 Route number 21(Laharhat-Bheduria)	Route 21 (Laharhat- Bheduria)	Engineering Survey
3.	07.12.2024	Adjacent areas/village of River Route 13, Lot-3 Site	possibilities of Dike No.4 extension.	S1A Consultant Team and Landowners, Local People of the Alubazar area and Contractors Representatives
4.	08.12.2024	Small Market Place at Alubazar, Lot-3 site.	Consultation Meeting with landowners for Selecting appropriate Land for using as Dike.	S1A Consultant Team and Land owners, Local People of Alubazar area and Contractors Representatives
5.	15.12.2024	Engineering survey work done for lot 3 Route no 13 (North Athazar-Alubazar-Horina)	Route no 13 (North Athazar-Alubazar-Horina)	Engineering Survey
6.	23.12.2024	Engineering survey work done for lot 3 Route number 21(Laharhat-Bheduria)	Route 21 (Laharhat- Bheduria)	Engineering Survey
7.	24.12.2024	Adjacent areas/village of River Route 13, Lot-3 Site, (Chandpur and Shariatpur)	Discussion with the local community/stakeholders regarding the disposal area	BRWTP-S1A Consultant Team and Dharti-Banga Contractors representative

Serial No.	Date	Activity	Route name & Route number	Remarks
			location selection.	
8.	26.12.2024 to 27.12.2024	Post survey work done for lot 3 Route number 21(Laharhat-Bheduria)	Route 21 (Laharhat- Bheduria)	Detail post Survey
9.	28.12.2024	Post survey work done for lot 3 Route no 13 (North Athazar-Alubazar-Horina)	Route 13 (North Athazar-Alubazar-Horina)	Detail post Survey

## ANNEX IV:

### The Progress and Status of Dike and Selected Disposal Areas

#### Lot-2

**Table 10: Status of Good Faith Agreements (GFA) for Phase-I Capital Dredging, Lot 2 (74 Dike)**

Dyke no.	Route No	Land Owner		Land			Good Faith Agreement Status
		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. Soft copy available
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. Soft copy available
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. Soft copy available
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. Soft copy available
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. Soft copy available
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. Soft copy available
D7	9	Monir Hossain NID:1210488092100 9	Village: Imam Nagar Upazila: Bancharampur	Plot No.127 Mouza: Imam Nagar.	40	Agriculture land (Two Crops)	Done. Soft copy available
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. Soft copy available
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. Soft copy available
D10	9	Md. Alamgir Kabir. NID: 1218575059084	Village: Nilukhi Upazila: Nabinagar	Plot no. 455. Mouza: Borail	52	Agriculture land (Two Crops)	Done. Soft copy available
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. Soft copy available
D12	9	Md. Nazrul Islam. NID: 8705507518	Village: Aka Nagar Upazila: Bancharampur	Plot no. 3053, Mouza: Aka Nagar.	50	Agriculture land (One Crop)	Soft copy available
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. Soft copy available
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. Soft copy available
D15	9	Abdul Halim NID: 2366199863 Mbl: 01819160113	Village:Akanagar Union: Tezkhal Upazila:Bancharampur District: Brahman Baria	Mouza: Akanagar, Plot no. 3395,3396 BS-khatian no. 496 JL no. 13.	67	Agriculture land (One Crop)	Done. Soft copy available
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. Soft copy available
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. Soft copy available

**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 Status
		Name and NID	Address	Description	Quantity (Decimal)	Quality of Land	
D18	9	Kader Miah NID: 1210488088731 Mbl: 01712830171	Village:Akanagar Union: Tejkhali 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. Soft copy available
D19	9	Md. Kabir Hossain NID: 1210488087685 Mbl: 01789160113	Village:Akanagar Union: Tejkhali 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. Soft copy available
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. Soft copy available
D21	9	Safar Ali NID: 2398388328 Mbl: 0191438148	Village:Akanagar Union: Tejkhali Upazila:Bancharampur District: Brahman Baria	Mouza: Akanagar, SA Khatian: 3610, Plot no: 3456,3460 JL No. 13	75	Agriculture land (One Crop)	Done. Soft copy available
D22	9	Md. Milon Mia NID: 7348365565 Mbl: 01321822727	Village:Bahir char Union: Tejkhali Upazila:Bancharampur District: Brahman Baria	Mouza: Bahir char SA Khatian: 556, Plot no: 613,857 JL No. 41	84	Agriculture land (One Crop)	Done. Soft copy available
D23	9	1.Alomgir Hossain NID: 19781210488000039 Mbl: 01741735087 2. Md. Borhan Uddin NID: 1210488095770 Mbl: 01794735283	Village: Bishnursmpur Union: Tezkhali Upazila:Bancharampur District: Brahman Baria	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. Soft copy available
D24	9	Aminul Islam (Liton) NID: 9917405796 Mbl: 01310822838	Village: Bishnursmpur Union: Bishnursmpur Upazila:Bancharampur District: Brahman Baria	Mouza: Bishnursmpur SA Khatian: 92 Plot no: 1209,1205,1439,1430 JL No. 40	120	Agriculture land (One Crop)	Done. Soft copy available
D25	9	Ilias Miazi 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. Soft copy available
D26	9	1. Gazi Kawar NID: 3298455597 Mbl: 01713685001 2.Gazi abdu Salam NID: 23984791119 Mbl: 01740956081 3.Md. Zakir Hossain NID: 7348561049 Mbl: 01713585112 4. Chandra Kumar Das NID: 1210488090007	Village: Aka Nagar Union: Tezkhali Upazila:Bancharampur District: Brahman	Mouza No: Aka Nagar SA Khatian: 3921,4096,3941 Plot No: 5760,5705,5707,5790,6370,6698,5744,5 711,5384,5715 J L No 13	310	Agriculture land (One Crop)	Done. Soft copy available
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. Soft copy available
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. Soft copy available
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. Soft copy available

**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 Status
		Name and NID	Address	Description	Quantity (Decimal)	Quality of Land	
D30	9	1.Md. Farid Mia NID: 3298435581 Mbl: 01317622313  2.Abdul Wahab NID: 6894609699 Mbl: 01735786521	Village: Bahirchar Union: Tezkhal 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. Soft copy available
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. Soft copy available
D32	9	Ali Ahammad Sarker NID: 3747074718 Mbl: 01715046233	Village: Nilokhi Union: Salimganj Upazila:Nabinagar 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. Soft copy available
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:Nabinagar 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. Soft copy available
D34	9	1. Md. Billal NID: 2398523114 Mbl: 01725835721 2. Arfat Ali NID:8257731771 Mbl: 01985789351	Village: Bahir Char Union: Tezkhal Upazila:Bancharampur 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. Soft copy available
D35	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:Nabinagar 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. Soft copy available
D36	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: Tezkhal Upazila:Bancharampur 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. Soft copy available
D37	9	Md. Swapon Mia NID: 8248495528 Cel: 01753828096	Village: Bahirchar Union: Tezkhal Upazila:Bancharampur, District: Brahman Baria.	Mouza No. Bahirchar Khatian No: 530/616/1464 Plot: 553/552/554 JL No:41	60	Agriculture land (One Crop)	Done. Soft copy available
D38	9	1.Md. Nazim NID: 2421516085 Mbl: 01733123741 2. Apel Mahmud NID: 4201400373 Mbl: 01958705623 3. Aynal Hoque	Village: Bahirchar Union: Tezkhal Upazila:Bancharampur District: Brahman Baria.	Mouza No. Bahirchar Khatian No: 751/439/120/889/743/70 Plot: 1282/1284/1285/1283/957/1641/2221/955/1502/985/984 JL No:41	173	Agriculture land (One Crop)	Done. Soft copy available

**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 Status	
		Name and NID	Address	Description	Quantity (Decimal)	Quality of Land		
		NID: 5554116691 Mbl: 01815237615 4. Abu Musa 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:Nabinagar District: Brahman Baria.	Mouza No. Kadoir Khatian No: 591 Plot: 421 JL No:63	50	Agriculture land (One Crop)	Done. Soft copy available	
D 40	9	Md. Jalu Mia NID: 4155505789 Mbl: 01712892751	Village: Bahirchar Union: Tezkhali Upazila:Bancharampur District: Brahman Baria.	Mouza No. Bahirchar Khatian No: 709 Plot: 440 JL No:41	100	Agriculture land (One Crop)	Done. Soft copy available	
D 41	9	1.Md. Kamal Mia NID: 7347275260 Mbl: 01724532687 2.Abdul Karim NID: 2397556354 Mbl: 01716161185	Village: Kadoir Union: Tezkhali Upazila:Bancharampur District: Brahman Baria.	Mouza No. Bahirchar Khatian No: 706 Plot: 486/350/352 JL No:10	111	Agriculture land (One Crop)	Done. Soft copy available	
D 42	9	1.Mst. Jahanara NID: 1210488096760 Mbl: 01986218781	Village: Nilokhi Union: Salimganj Upazila:Nabinagar District: Brahman Baria.	Mouza No. Nilokhi Khatian No: 262 Plot: 1129/1 JL No:05	31	Agriculture land (One Crop)	Done. Soft copy available	
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:Nabinagar 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. Soft copy available	
D 44	9	1. Md. Alomgir NID: 2397009727 2. Rezaul Karim NID: 6455341013 3. Ziaul Karim NID: 5983496109 Mbl: 01713018040 4. Fazlul Karim NID: 9132487969	Village: Badda Dakkhin Para Union: Salimganj Upazila:Nabinagar District: Brahman Baria.	Mouza No. Jolli Khatian No: 175/1453 Plot: 122/233/325/ JL No:16	140	Fallow Pond	Done. Soft copy available	
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. Soft copy available	



**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 Status
		Name and NID	Address	Description	Quantity (Decimal)	Quality of Land	
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. Soft copy available
D 47	9	1. Md. Abu Hanif NID: 7305030772 Mbl: 01712892751 2. Sohrab Hossain NID: 1975871797 Mbl: 01728356911	Village: Kadoir Union: Salimganj Upazila:Nabi Nagar District: Brahman Baria.	Mouza No. Kadoir Khatian No: 342 Plot: 438 JL No:10	68	Agriculture land (One Crop)	Done. Soft copy available
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:Nabi Nagar 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. Soft copy available
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 Passport:0538242 Mbl: 01712835771 7.Farid NID: 3322198205 Mbl: 01852892821	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. Soft copy available
D 50	9	1.Abul Kashem NID: 2398411542 Mbl: 01708665453 2.Humayun Kobir NID: 1210436157748 Mbl: 01983460221	Village: Moddho Nagar Union: Choyfullah Kandi Upazila:Nabinagar 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. Soft copy available

**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 Status
		Name and NID	Address	Description	Quantity (Decimal)	Quality of Land	
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 Union: Salimganj Upazila:Nabinagar 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. Soft copy available
D 52	9	Shahin NID: 19821218575000021 Mbl: 01734532462	Village: Bandey Bahir char Union: Salimganj Upazila:Nabinagar District: Brahman Baria.	Mouza No. Char Badda Khatian No: 1118 Plot: 26 JL No:14	32	Agriculture land (One Crop)	Done. Soft copy available
D 53	9	Md. Monirul Islam NID: 8672153577 Mbl: 01711175171	Village: Joy Nagar Union: Salimganj Upazila:Nabinagar District: Brahman Baria.	Mouza No. Joy Nagar Khatian No:1154 Plot: 2374 JL No:11	75	Agriculture land (One Crop)	Done. Soft copy available
D 54	9	Abdur Razzak NID: 9574183696 Mbl: 01747343757	Village: Bishnurampur Union: Tezkhal Upazila:Bancharampur District: Brahman Baria.	Mouza No. Bishnurampur Khatian No:1154 Plot: 1594 JL No:01	86	Fallow Land	Done. Soft copy available
D 55	9	Shahjalal NID: 8242023813 Mbl: 01625888695	Village: Bishnurampur Union: Tezkhal Upazila:Bancharampur District: Brahman Baria.	Mouza No. Bishnurampur Khatian No:386 Plot: 1550 JL No:40	73	Fallow Land	Done. Soft copy available
D 56	9	1.Abul Kashem NID: 2398411542 Mbl: 01708665453 2.Humayun Kobir NID: 1210436157748 Mbl: 01983460221	Village: Moddho Nagar Union: Choyfullah Kandi Upazila:Nabinagar 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)	Agreement will be done by District administration
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:Nabinagar 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:Nabinagar 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:Nabinagar 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: Tezkhal Upazila:Bancharampur 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: Tezkhal Upazila:Bancharampur District: Brahman Baria.	Mouza No. Bishnurampur Khatian No:386 Plot: 1550 JL No:40	73	Fallow Land	Agreement will be done by District administration

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Dyke no.	Route No	Land Owner		Land			Good Faith Agreement Status
		Name and NID	Address	Description	Quantity (Decimal)	Quality of Land	
D 62	9	Md. Aktar Hossain NID: 3725002590 Mbl: 01605208355	Village: Tezkhali Union: Tezkhali Upazila: Bancharampur District: Brahman Baria.	Mouza No. Tezkhali Khatian No: 1852 Plot: 430/688/960/972/482 JL No: 42	120	Agriculture land (One Crop)	Awaiting PD's Approval. Soft copy available.
D 63	9	Md. Ashikul Islam NID: 3268311275 Mbl: 01855997070	Village: Tezkhali Union: Tezkhali Upazila: Bancharampur District: Brahman Baria.	Mouza No. Tezkhali Khatian No: 1852 Plot: 430/688/960/972/482 JL No: 42	120	Agriculture land (One Crop)	Awaiting PD's Approval. Soft copy available.
D 64	9	Md. Masud NID: 4197522263 Mbl: 01625888695	Village: Noyar char Union: Salimganj Upazila: Nabinagar District: Brahman Baria.	Mouza No. Noyar char Khatian No: 689 Plot: 366/422/645/389 JL No: 67	62	Agriculture land (One Crop)	Awaiting PD's Approval. Soft copy available.
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)	Awaiting PD's Approval. Soft copy available.
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: Alokbali Upazila: Narsingdi 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. Soft copy available
D 68	7&8	Md. Delwar Hossain NID: 9550769062 Mbl: 01712766109	Village: Bakhor nagar Union: Alokbali Upazila: Narsingdi Sadar District: Narsingdi	Mouza: Char Madhobpur SA Khatian No: 8723/4356/4126/4247 SA Plot No: 7879, 7915, 7880, 8793, 7891, 7960, 7961, 9 730, 9731, 9732, 8730, 896, 7496, 7494, 975 6, 9757, 9727, 9730, 9731, 9732, 8726, 8743, 7891, 8793, 7886, JL No: 62	328	Fallow Land	Done. Soft copy available
D 69	7&8	Hazrat Ali NID: 7822420450 Mbl: 01935205783	Village: Birgaon Union: Alokbali Upazila: Narsingdi Sadar District: Narsingdi	Mouza: Char Madhobpur CS Khatian No: 122 SA Plot No: 12458/12466/12485 JL No: 52	91	Agriculture land (One Crop)	Awaiting PD's Approval. Soft copy available.
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: Alokbali Upazila: Narsingdi 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)	Awaiting PD's Approval. Soft copy available.
D 71	7&8	1. Md. Sheikh Farid NID: 6816020734834 Mbl: 01765-995824 2. Rezon Mia NID: 7358087984 Mbl: 01677556624	Village: Sat para Union: Alokbali 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)	Awaiting PD's Approval. Soft copy available.

Dyke no.	Route No	Land Owner		Land			Good Faith Agreement Status
		Name and NID	Address	Description	Quantity (Decimal)	Quality of Land	
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: 1062/1011/894/1131/42/131/806/811/91 3/1042/1181/1188 JL No: 123	290	Agriculture land (One Crop)	Awaiting PD's Approval. Soft copy available.
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)	GFA 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)	GFA done
<b>74 dikes</b>	<b>04 River Routes</b>				<b>Total Land 9,669 (Decimal)</b>		

### Lot-3

**Table 11: Status of Good Faith Agreements (GFA), Lot 3 (23 Dike)**

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)	Leased money yet to be paid to land owner by PIU
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)	Leased money yet to be paid to land owner by PIU
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)	Leased money yet to be paid to land owner by PIU
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)	Leased money yet to be paid to land owner by PIU
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)	Leased money yet to be paid to land owner by PIU
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)	Leased money yet to be paid to land owner by PIU
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

**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 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. Shreepur 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	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	Done
D 20	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, Fallow Pond	Done
D21	21	Md. Kalu, Md. Shahin	Village: Ghagoria Union: sreepur Upazila: Mehendiganj District: Barishal	Did not collect yet	70	Fallow Pond	Done
D22	R 21	Ali Hossain gong	Village: Ghagoria Union: sreepur Upazila: Mehendiganj District: Barishal	Khatian: 260, 493	900	Fallow land	Done
D 22	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 23	16	1. Adv. Md Khorshed NID: 7328539411 2. Adv.Md Jakir Hossain NID: 0616213038313	Village: Char Mitua Union: Alimabad Upazila: Mehandiganj District: Barishal	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	
		Mbl # 01770198608					
D 24	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 25	13	Government land	Village: Lokkhir char Union: Upazila: Chandpur sadar District: Chandpur	Did not collect yet	400	Fallow Land	N/A
D 26	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
<b>Total dyke=27</b>	<b>Total Roue = 03</b>				<b>Total Land (Decimal) = 13,914</b>		

Note: 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.



## ANNEX-V: Laboratory Test Results of Environmental Parameters, December, 2024

### Laboratory Test Result of Lot-2:



Ref: ELRC/Air Quality/2024307912

<b>Project Name</b>	: 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
<b>Monitoring Activity</b>	: Ambient Air Quality
<b>Location</b>	: AQ1: Near Salimganj Bridge; Route-9 (23.847830°N 90.845200°E) AQ2: Near Akanagar Jame Mosque; Route-9 (23.830729°N 90.839462°E)
<b>Monitoring Date</b>	: 25.12.2024
<b>Reporting Date</b>	: 02.01.2025

**Description of Analysis:**

Location	Sampling Date	Ambient Air Pollutants' Concentration in µg/m3					CO mg/m3
		SPM	PM10	PM2.5	SO2	NO2	
AQ1	25.12.2024	160.33	72.59	40.29	28.26	36.17	0.6
AQ 2		155.39	68.48	39.14	26.39	32.11	0.6
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: PM<sub>10</sub>-Particulate Matter of a diameter of 10 microns or less. PM<sub>2.5</sub>-Particulate Matter of a diameter of 2.5 microns or less, SO<sub>2</sub>-Sulphur Dioxide; NO<sub>2</sub>-Nitrogen-Dioxide; CO -Carbon Monoxide



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Ref: ELRC/Noise Level/2024307913

<b>Project Name</b>	:	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.
<b>Monitoring Activity</b>	:	Noise Level
<b>Location</b>	:	NL1: Near Salinganj Bridge; Route-9 (23.847830°N 90.845200°E) NL2: Near Akanagar Jame Mosque; Route-9 (23.830729°N 90.839462°E)
<b>Monitoring Date</b>	:	25.12.2024
<b>Reporting Date</b>	:	02.01.2025

**Description of Analysis:**

Location	Noise level (dB(A))			Bangladesh Standard (dB(A)) *	IFC EHS Guideline (2007)	Location setting
	Leq <sub>day</sub>	L <sub>max</sub>	L <sub>min</sub>	Day	Day	
NL1	58.6	62.4	32.6	60	70	Mixed area
NL2	53.1	60.8	31.4	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/2024307914

<b>Project Name</b>	:	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.
<b>Monitoring Activity</b>	:	Noise Level
<b>Location</b>	:	UWNL1: Titas River; Route-9 (23.830130°N 90.840420°E)
<b>Monitoring Date</b>	:	25.12.2024
<b>Reporting Date</b>	:	02.01.2025

**Description of Analysis:**

Code	Location	L <sub>Avg</sub> [dB (A)]	*Standard
UWNL1	Titas River; Route-9	45.2	No International/ GoB Standard



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Ref: ELRC/Surface Water Quality/2024307915

<b>Project Name</b>	: 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.
<b>Description of Sample</b>	: SW1: Titas River; Route-9 (23.833754°N 90.845403°E)
<b>Location</b>	: SW2: Titas River; Route-9 (23.826666°N 90.838160°E)
	Amit kumar Saha
<b>Sampling Date</b>	: 25.12.2024
<b>Reporting Date</b>	: 02.01.2025

**Description of Analysis:**

Parameters	Unit	Concentration Present		Bangladesh Standard
		SW1	SW2	
Temperature	°C	26.2	26.4	-
EC	µS/cm	269	278	-
Turbidity	NTU	5.3	4	-
pH	-	6.98	7.11	6-9
TDS	ppm	133	137	1000
DO	mg/L	5.3	5.5	5 of more
Potassium	mg/L	30	32	-
Calcium	mg/L	36	39	-
Magnesium	mg/L	22	27	-
Phosphate	mg/L	1.4	1.2	-
Chloride	mg/L	28	30	-
Fluoride	ppm	0.7	0.6	-
Nitrate	mg/L	0.9	0.8	7
BOD5 (at 20°C)	mg/L	4.7	4.9	6 of less
Sulfate	mg/L	22	24	-
TSS	mg/L	182	189	-

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/2024307917

<b>Project Name</b>	:	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.
<b>Description of Sample</b>	:	SedQ1: Titas River; Route-9 (23.845460°N 90.844480°E)
<b>Location</b>	:	Amit Kumar Saha
<b>Sampling Date</b>	:	25.12.2024
<b>Reporting Date</b>	:	02.01.2025

**Description of Analysis:**

Parameter	Unit	Sediment Quality – Lot 2	Methodology	Dutch Environmental Standard (mg/kg)
		Sed Q1		
Lead	mg/kg	17.63	ICPMS	85
Cadmium	mg/kg	0.061	ICPMS	0.8
Chromium	mg/kg	16	ICPMS	100
Zinc	mg/kg	18.29	ICPMS	140
Arsenic	mg/kg	1.6	ICPMS	29

Note: ICPMS - Inductively coupled plasma mass spectrometry



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### Laboratory Test Result of Lot-3:



Ref: ELRC/Air Quality/ AQMM2024-07

<b>Project Name</b>	:	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
<b>Monitoring Activity</b>	:	Ambient Air Quality
<b>Monitoring Date</b>	:	10.12.2024 – 11.12.2024
<b>Monitoring Location</b>	:	Route 13; (AQ-1)- 23°11'30.42"N 90°36'41.44"E Route 13a; (AQ-2)- 22°59'28.97"N 90°28'10.96"E Route 12; (AQ-3)- 23°13'51.07"N 90°38'28.21"E

#### Description of Analysis:

Location	Sampling Date	Ambient Air Pollutants' Concentration in µg/m <sup>3</sup>					CO mg/m3
		SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>	
AQ-1 Route 13	10/12/2024	71.74	39.66	25.44	16.38	20.11	0.9
AQ-2 Route 13a	10/12/2024	58.23	34.20	19.71	15.99	18.90	0.7
AQ-3 Route 12	11/12/2024	133.65	86.11	39.44	21.44	27.86	0.9
<b>Air Pollution (control) rules, 2022*</b>		-	<b>150</b>	<b>65</b>	<b>80</b>	<b>80</b>	<b>5</b>
<b>Method of Analysis</b>		Particulates Sensor			High Sensitivity		
<b>Instrument Use:</b>		Light Scattering Nephelometer			Electrochemical		
<b>Haz-Scanner TM (HIM, 6000)</b>							

Note: \* Air Pollution (Control) Rules, 2022

Legend: PM<sub>10</sub>-Particulate Matter of a diameter of 10 microns or less. PM<sub>2.5</sub>-Particulate Matter of a diameter of 2.5 microns or less, SO<sub>2</sub>-Sulphur Dioxide; NO<sub>2</sub>-Nitrogen-Dioxide; CO-Carbon Monoxide

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Ref: ELRC/Noise Level/ NLMM2024-07

<b>Project Name</b>	:	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
<b>Monitoring Activity</b>	:	Noise Level
<b>Location</b>	:	<b>NL1</b> 23°11'30.07"N 90°36'42.82"E, <b>(Route 13)</b> <b>NL2</b> 22°59'38.15"N 90°28'20.40"E, <b>(Route 13a)</b> <b>NL3</b> 23°13'50.91"N 90°38'28.39"E, <b>(Route 12)</b>
<b>Monitoring Date</b>	:	10.12.2024 – 11.12.2024

**Description of Analysis:**

Location	Noise level (dB(A)) <sup>1</sup>			Bangladesh Standard (dB(A)) <sup>2</sup>	IFC EHS Guideline (2007) <sup>3</sup>	Location setting
	Leq <sub>day</sub>	L <sub>max</sub>	L <sub>min</sub>	Day	Day	
NL1	65.90	81.50	39.11	-	-	-
NL2	60.22	79.05	37.44	-	-	-
NL3	72.41	87.63	40.78	60	70	Mixed area

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.

<sup>1</sup> 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.

<sup>2</sup>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.

<sup>3</sup> 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/ UWNL2024-07

<b>Project Name</b>	:	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
<b>Monitoring Activity</b>	:	Underwater Noise Level
<b>Location</b>	:	<b>UWNL1</b> 23°11'29.16"N 90°36'37.98"E, <b>Route 13</b> <b>UWNL2</b> 22°59'44.03"N 90°28'13.53"E, <b>Route 13a</b> <b>UWNL3</b> 23°13'22.96"N 90°38'54.31"E, <b>Route 12</b>
<b>Monitoring Date</b>	:	10.12.2024 – 11.12.2024

**Description of Analysis:**

Code	Location	L <sub>Avg</sub> [dB (A)]	*Standard
		[dB (A)]	
UWNL1	Route 13	69.7	No standard of International / GoB
UWNL2	Route 13a	63.5	
UWNL3	Route 12	75.3	

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Ref: ELRC/Surface Water Quality/ SWMM2024-07

<b>Project Name</b>	:	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
<b>Description of Sample</b>	:	Surface Water
<b>Location</b>	:	Route- 13, 13a & 12.
		SW1 - 23°11'28.01"N 90°36'39.46"E, Route 13
		SW2 - 22°59'50.39"N 90°28'23.63"E, Route 13a
		SW3 - 23°13'20.44"N 90°38'56.76"E, Route 12
<b>Sampling Date</b>	:	10.12.2024 – 11.12.2024

**Description of Analysis:**

Parameters	Unit	Concentration Present (Route -13,13a, & 12)			Bangladesh Standard
		SW1	SW2	SW3	
Temperature	°C	24.8	24.9	24.7	-
EC	µS/cm	280	265	260	-
Turbidity	NTU	11.2	12.7	10.7	-
pH	-	7.02	7.80	7.04	6 - 9
TDS	ppm	150	110	130	1000
DO	mg/L	6.1	7.3	5.8	5 or more
Potassium	mg/L	8.5	8.0	15.1	-
Calcium	mg/L	27	32	39	-
Magnesium	mg/L	8.6	9.2	10.1	-
Phosphate	mg/L	0.3	0.5	0.9	0.05
Chloride	mg/L	8.7	8.1	5.5	-
Fluoride	ppm	0.28	0.15	0.09	-
Nitrate	mg/L	1.3	1.1	0.8	7.0
BOD5 (at 20°C)	mg/L	4.8	4.3	5.1	6 or less
Sulfate	mg/L	25	22	18	-
TSS	mg/L	43	40	34	-

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 / SDMM2024-07

<b>Project Name</b>	:	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
<b>Description of Sample</b>	:	Riverbed sediment – Lot 3
<b>Sampling Date</b>	:	10.12.2024 – 11.12.2024

**Location Details:**

Code	Route No.	GPS Location
SedQ1	Route 13	23°11'28.78"N 90°36'41.04"E
SedQ2	Route 13a	22°59'35.61"N 90°28'6.24"E
SedQ3	Route 12	23°13'25.31"N 90°38'51.93"E

**Description of Analysis:**

Parameter	Unit	Riverbed sediment – Lot 3			Methodology	Dutch Environmental standard (mg/kg)
		SedQ1	SedQ2	SedQ3		
Lead	mg/kg	6.13	6.69	5.27	ICPMS	85
Cadmium	mg/kg	0.065	0.062	0.067	ICPMS	0.8
Chromium	mg/kg	15.68	17.99	22.44	ICPMS	100
Zinc	mg/kg	29.44	27.50	33.89	ICPMS	140
Arsenic	mg/kg	3.36	3.20	3.55	ICPMS	29

Note: ICPMS - Inductively coupled plasma mass spectrometry

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Ref: ELRC/ Riverbed sediment / SDMM2024-07

<b>Project Name</b>	:	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
<b>Description of Sample</b>	:	Riverbed sediment – Lot 3
<b>Sampling Date</b>	:	10.12.2024 – 11.12.2024

**Location Details:**

Code	Route No.	GPS Location
SedQ1	Route 13	23°11'28.78"N 90°36'41.04"E
SedQ2	Route 13a	22°59'35.61"N 90°28'6.24"E
SedQ3	Route 12	23°13'25.31"N 90°38'51.93"E

**Description of Analysis:**

Parameter	Unit	Riverbed sediment – Lot 3			Methodology	Dutch Environmental standard (mg/kg)
		SedQ1	SedQ2	SedQ3		
Lead	mg/kg	6.13	6.69	5.27	ICPMS	85
Cadmium	mg/kg	0.065	0.062	0.067	ICPMS	0.8
Chromium	mg/kg	15.68	17.99	22.44	ICPMS	100
Zinc	mg/kg	29.44	27.50	33.89	ICPMS	140
Arsenic	mg/kg	3.36	3.20	3.55	ICPMS	29

Note: ICPMS - Inductively coupled plasma mass spectrometry

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Ref: ELRC/ Dredge Material / SDMM2024-07

<b>Project Name</b>	:	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
<b>Description of Sample</b>	:	Dredge Material – Lot 3
<b>Sampling Date</b>	:	10.12.2024

**Location Details:**

Sl. No.	Sampling Station	Station Code	Sampling Date	GPS Coordinates
1.	Route 13	DM-22 A	10/12/2024	23°11'31.00"N 90°36'46.00"E
2.	Route 13	DM-22 B	10/12/2024	23°11'31.96"N 90°36'47.37"E
3.	Route 13	DM-22 C	10/12/2024	90°36'47.37"E 90°36'48.32"E
4.	Route 13	DM-22 D	10/12/2024	23°11'34.97"N 90°36'49.56"E
5.	Route 13	DM-22 E	10/12/2024	23°11'36.00"N 90°36'49.00"E

**Description of Analysis:**

Parameter	Unit	Dredge Material Route 13					Methodology	Dutch Environmental standard (mg/kg)
		DM22A	DM22B	DM22C	DM22D	DM22E		
Lead	mg/kg	9.44	9.32	9.13	9.22	9.49	ICPMS	<b>85</b>
Cadmium	mg/kg	0.087	0.081	0.083	0.085	0.089	ICPMS	<b>0.8</b>
Chromium	mg/kg	33.99	33.02	32.68	33.09	31.88	ICPMS	<b>100</b>
Zinc	mg/kg	49.43	47.87	48.23	48.04	49.55	ICPMS	<b>140</b>
Arsenic	mg/kg	3.99	4.42	4.36	4.27	4.20	ICPMS	<b>29</b>

Note: ICPMS - Inductively coupled plasma mass spectrometry

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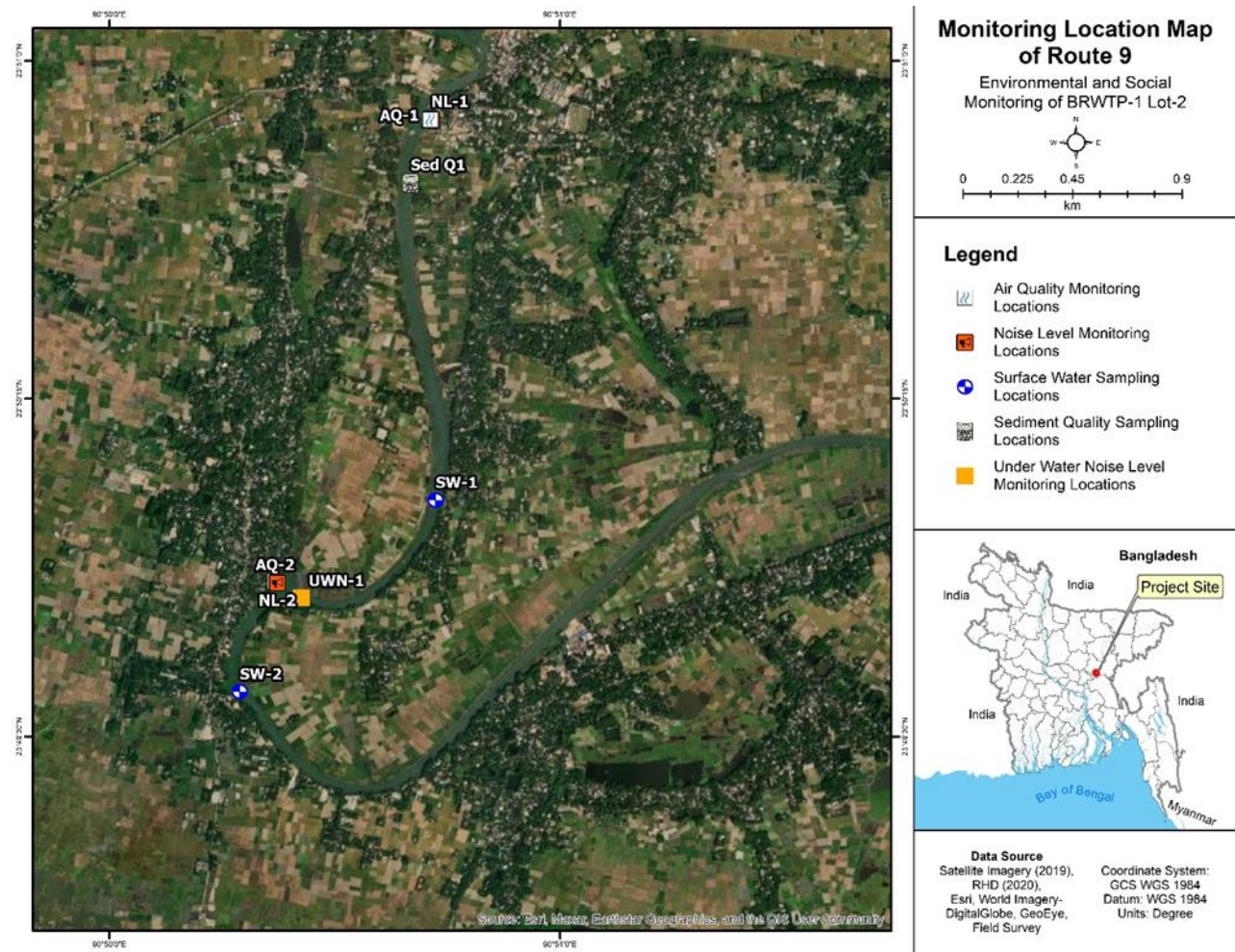
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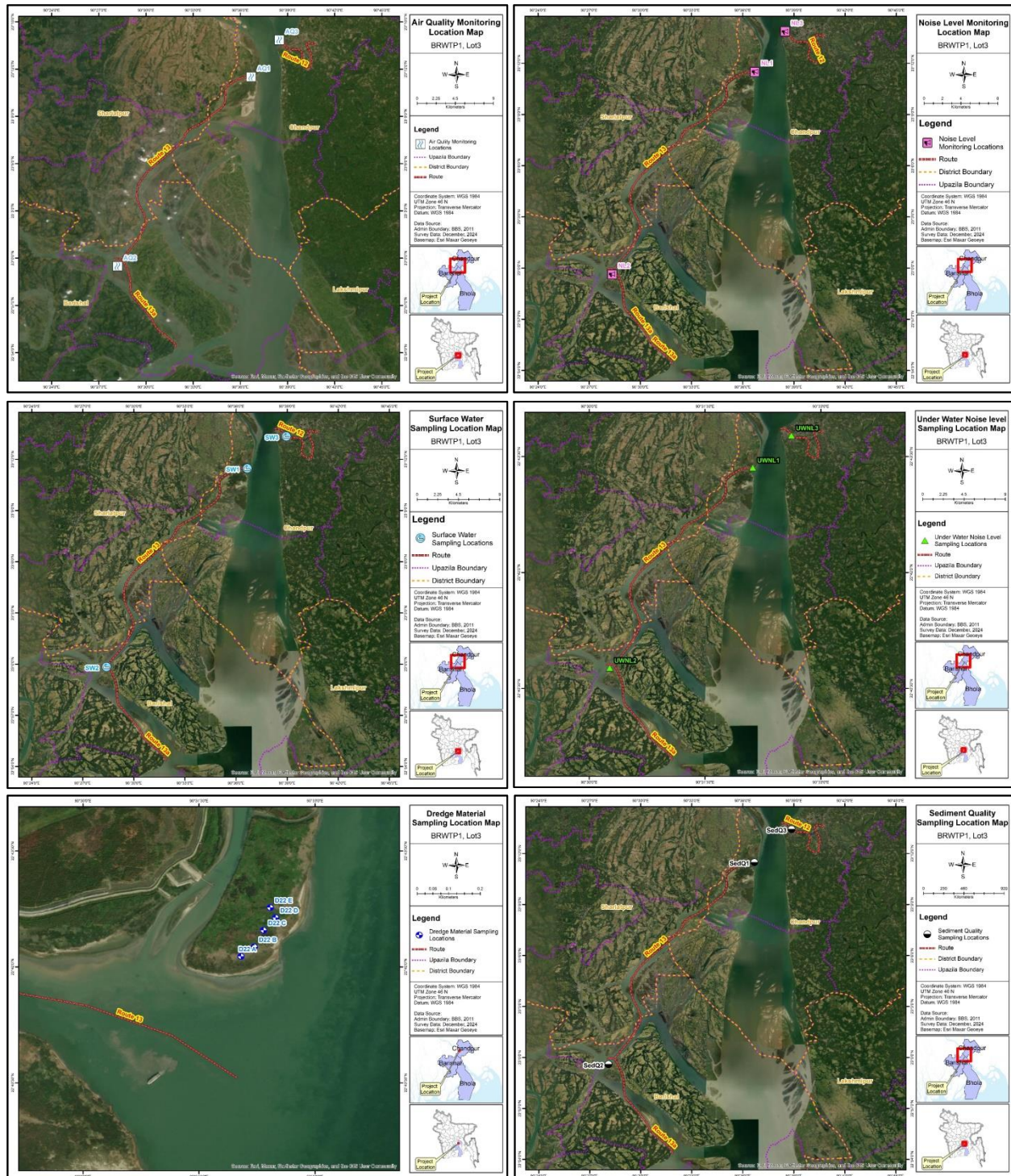
ANNEX VI:  
Location of Environmental Sample Collection, December 2024

Location Map Environmental Sample Collection at Lot-2 sites (December 2024):





## Location Map Environmental Sample Collection at Lot-3 sites (December 2024):



## ANNEX VII:

### Environmental Quality Assessment and Compliance Status for December 2024

**Table 14: Environmental Quality Assessment for December 2024 for Lot-2**

SI No.	Item	Parameters	Baseline Data of Route 09	Route-9	SIA Remarks August 2024
			January 2023	December 2024	
1	Air Quality	SPM	140.34	160.33	*WAL
		PM10	58.34	72.59	WAL
		PM2.5	31.43	40.29	WAL
		SO2	15.29	28.26	WAL
		NO2	12.75	36.17	WAL
		CO	1.3	0.6	WAL
2	Noise Level	LEQ day	61.6	58.6	WAL
		Lmax	76	62.4	WAL
		Lmin	42.8	32.6	WAL
3	Underwater Noise Level	LAvg [dB (A)]	-	45.2	WAL
4	Surface Water Quality	Temperature	22.1	26.2	WAL
		EC	170	269	WAL
		pH	7.20	6.98	WAL
		TDS	160	133	WAL
		DO	4.5	5.3	WAL
		BOD5	10	4.7	WAL
		TSS	83	182	WAL
5	Riverbed Sediment	Lead (Pb)	9.79	17.63	WAL
		Cadmium (Cd)	0.054	0.061	WAL
		Chromium (Cr)	15.94	16	WAL
		Zinc (Zn)	26.32	18.29	WAL
		Arsenic (As)	1.96	1.6	WAL

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

**Table 15: 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	-	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	
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	C	-	-	Stop dredging and relocate	Recommended reporting to the authorities and stop 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		
			taken					
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
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 16: Environmental Quality Assessment for December 2024 for Lot 3**

Sl No.	Item	Parameters	Baseline Data of Route 13	Route 13	Baseline Data of Route 13a	Route 13a	S1A Remarks December 2024
				December 2024		December 2024	
1	Ambient Air Pollutants' Concentration in $\mu\text{g}/\text{m}^3$	SPM	181.92	71.74	152.09	58.23	WAL
		PM10	92.79	39.66	69.31	34.20	WAL
		PM2.5	51.34	25.44	31.76	19.71	WAL
		SO2	24.66	16.38	14.27	15.99	WAL
		NO2	32.92	20.11	24.31	18.90	WAL
		CO	1.2	0.9	0.8	0.7	WAL
2	Noise Level	LEQ day	65.90	-	63.7	60.22	WAL
		Lmax	81.50	-	80.1	79.05	Mixed Area.
		Lmin	39.11	-	36.8	37.44	WAL
3	Under Water Noise Level	LAvg [dB (A)]		69.7		63.5	WAL
4	Surface Water Quality	Temperature	22.4	24.8	22.3	24.9	WAL
		EC	280	280	290	265	WAL
		pH	7.57	7.02	7.82	7.80	WAL
		TDS	140	150	140	110	WAL
		DO	6.3	6.1	6.6	7.3	WAL
		BOD5	0.5	4.8	0.5	4.3	WAL
		TSS	30	43	26	40	WAL
5	Riverbed Sediment	Lead	10.91	6.13	7.18	6.69	WAL
		Cadmium	0.037	0.065	0.014	0.062	WAL
		Chromium	21.35	15.68	23.86	17.99	WAL
		Zinc	28.02	29.44	18.64	27.50	WAL
		Arsenic	2.48	3.36	1.92	3.20	WAL
6	Dredge Material	Lead	-	9.44	-	-	WAL
		Cadmium	-	0.087	-	-	WAL
		Chromium	-	33.99	-	-	WAL
		Zinc	-	49.43	-	-	WAL
		Arsenic	-	3.99	-	-	WAL

\*WAL=Within Approved Limit.

**Table 17: Compliance Status for December 2024 for Lot-3**

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 and 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



**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		
Riverbank Erosion	No reports of riverbank erosion or flooding occurred during the reporting month.	Regular monitoring		-	P	-		Regular monitoring
Hydrological Conditions	Surveyed before dredging							
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 VIII:**

**Checklist of Dredging and ESHS Activities Lot-2 & Lot-3, December 2024, BRWTP-S1A**

**Lot-2**

**Table 18: Checklist of Dredging Activities Lot-2, December 2024, BRWTP-S1A**

Factors	Checklist Items		Dredging Activity			Comments/Compliance
			Daily	Monthly	Quarterly	
1. Permits and Explanation	1	EIA and Environmental Permits	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	
	2	Explanation to the Local Stakeholders	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	
	3	Signboards, Notice Boards	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	
2. Physical Environmental Parameters Monitoring	1	Air Quality	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	Supervised in 24 December and 25 December at salimgonj site.
	2	Surface Water Quality	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	Supervised in 24 December and 25 December at salimgonj site.
	3	Solid Wastes	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	Supervised in 24 December and 25 December at salimgonj site.
	4	Liquid Wastes	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	Supervised in 24 December and 25 December at salimgonj site.
	5	Soil Contamination	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	Supervised in 24 December and 25 December at salimgonj site.
	6	Noise and Vibration	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	Supervised in 24 December and 25 December at salimgonj site.
	7	Underwater Noise	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	Supervised in 24 December and 25 December at salimgonj site.
	8	Odor	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	Supervised in 24 December and 25 December at salimgonj site.
	9	Riverbed Sediment	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	Supervised in 24 December and 25 December at salimgonj site.
	10	Groundwater	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	Supervised in 24 December and 25 December at salimgonj site.
3. Natural Environment	1	Protected Areas	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	Route no. 09
	2	Habitat Type	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	Route no. 09
	3	Hydrology	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	Route no. 09
	4	Topography and Geology	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	Route no. 09
	5	Dolphin Observation	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	Route no. 09
	6	Fish Catch Examination	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	Route no. 09
	7	Flora (Aquatic & Terrestrial)	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	Route no. 09
	8	Benthos (Micro & Macro)	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	Route no. 09
	9	Phyto- & Zoo-planktons	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	Route no. 09
4. Social Environment	1	Resettlement	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	
	2	Living and Livelihood	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	
	3	Heritage	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	
	4	Landscape	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	
	5	Ethnic Minorities and Indigenous Peoples	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	
5. Occupational Health Safety	1	Work Permit/Contract	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	
	2	Daily Toolbox Meeting - OHS	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	
	3	Working Conditions		<input checked="" type="checkbox"/>		Fair
	4	Impact/Precaution during Dredging	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	Not any major issue observed

Factors	Checklist Items		Dredging Activity			Comments/Compliance
			Daily	Monthly	Quarterly	
	5	Accident Prevention Measures	<input type="radio"/>	<input checked="" type="radio"/> <input type="checkbox"/>	<input type="radio"/>	Contractors ESHS team visiting site and concerning all the Manpower
	6	Working Condition	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	Fair
	7	Accommodation	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	House Boat
	8	Personal Protection Equipment	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	Safety helmet, Safety vest, safety shoes, Hand gloves etc observed at site.
	9	Drinking Water	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	Freshwater daily collect from tube well
	10	Sanitary Condition	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	Good arrangement kept in House boat
6. Dredged Material Disposal Area	1	Agreement with Land Owner	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	
	2	Land Use Type	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	
	3	Dyke Design Approval	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	
	4	Dyke Setback Distance	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	
	5	Disposal Area Dyke Height	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	
	6	Dyke Strengthened/Material Used*	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	When required then used.
7. Dredger	1	Carbon Emission	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	Not found/observed at site for all route in lot-2
	2	Leakage	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	
	3	Oil Spill	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	
	4	Onboard Waste Management	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	
	5	Noise and Vibration	<input type="radio"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	

**Table 19: Checklist of Environmental and ESHS Activities Lot-2, December 2024, BRWTP-S1A**

Checklist Items		Dredging Activity			Comments/Compliance
		Daily	Monthly	When and As Required	
1	Gauge reading & Water level (WL)	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	Average water level is 0.85 m
2	Connectivity with BM & TBM	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/> <input type="checkbox"/>	
3	Study Hydrographic Chart	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/> <input type="checkbox"/>	
4	Fixing Cutting Depth respect to existing WL as per design depth	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/> <input type="checkbox"/>	
5	Checking Dredging Alignment	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/> <input type="checkbox"/>	
6	Checking Dredged Activities as below;				No Dredger running in this period
a	Dredging Hours	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/> <input type="checkbox"/>	
b	Cutting Length	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/> <input type="checkbox"/>	
c	Cutting Depth	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/> <input type="checkbox"/>	
d	Cutting Width	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/> <input type="checkbox"/>	
e	Dredged Volume	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/> <input type="checkbox"/>	
7	Supervising Dredged Material Disposal Area whether the Dykes are designed as per Design	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/> <input type="checkbox"/>	
8	Supervising Dredged Material Disposal Area whether the Dykes are capable to resist the pressure of disposed materials	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/> <input type="checkbox"/>	
9	Checking outlet of the compartment	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/> <input type="checkbox"/>	
10	Check whether the dykes are being constructed at safe distance from river bank	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/> <input type="checkbox"/>	

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	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	
12	Check whether dredging work exacting Keeping Safety distance of River side installations like Road/houses/buiding.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	
13	Check Survey Activities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	

**Table 20: Checklist of Environmental and Social Activities Lot-2, December 2024, BRWTP-S1A**

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"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	There are a GRM committee with 5 persons here.
		2	Contact details for lodging grievance easily accessible.	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
2	Community Engagement	1	Consultations/ FGD 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"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	
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).	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
4	Processing of GFA (Good Faith Agreement)	1	Dyke/Land selection survey.	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	Survey in every week.
		2	Opinion meeting with land owner along with inform to the contractor and S1A team for justifying land as dyke.	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	Survey in 15 days a month.
		3	GFA documentation collection.	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	Collection the document 15 days a month.
		4	GFA will be submitted to S1A.	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	
		5	FGD on GFA with the Locals	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	
5	Constitution of GRM Protocol	1	Preparation of GRM Protocol and Greivance Redres Committee (GRC) will be Constituted by the Contractors.	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	
6	Establish a Complaint Box	1	For receive feedback, suggestions and complain letters.	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	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 of Bill board will be 5/15. The bill board should contain: name, mobile number and email of the focal person.	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	There is a signboard in front of office.
8	3 (three) tyers of the GRM Comittee will be formed	1	Local level GRC (Committee members 05, quorum fullfill at least 03) -Project related issues.	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	
		2	Contractor level GRC (Committee members 03, quorum fullfill at least 03)- GBV, CoC, Contractor's workers occurance etc. related issues.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	
		3	Project level GRC (Committee members 03, quorum fullfill at least 03)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	
9	Capacity Building	1	Project staffs and local institutions have received training on the GRM.	<input type="radio"/>	ON/A	<input type="radio"/>	<input type="radio"/>	

Sl no.	Factors	Checklist Items		Dredging Activity				Comments/Compliance
				Daily	Weekly	Monthly	Quarterly	
			GBV related issues and its operation.					
10	Leaflet/ Brochure	1	The Leaflet/ Brochure will be published for dissemination to all the stakeholders.	<input type="radio"/>	ON/A	<input type="radio"/>	<input type="radio"/>	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)	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	
12	Social Consultation	1	Local Community	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	
		2	Land Owner	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	
		3	Local Government Authority	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	
13	Gender-Based Violence (GBV)	1	Sex Violence by an intimate partner	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	
		2	Sexual violence by a non-peer	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	
		3	Child sexual abuse & forced marriage	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	
		4	Sexual exploitation & abuse	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	
		5	Sexual harassment	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		6	In case of emergency, the local level GRC will address the matter within 04 -12 hours.	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

### Lot-3

**Table 22: Checklist of Dredging Activities Lot-3, December 2024, BRWTP-S1A**

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 December, 2024
	a Dredging Hours	<input type="radio"/>	√	<input type="radio"/>	Total Dredging Hours 410hrs (Route 21 is 385.35hrs, Route 16 is 00 hrs & Route 13 is 171.40hrs)
	b Cutting Length	<input type="radio"/>	√	<input type="radio"/>	Total length is 3321m ; Route 21 length 2535m ;Route 13 length 786 m; Route 16 length 0.00m
	c Cutting Depth	<input type="radio"/>	√	<input type="radio"/>	Average Cutting Depth for Route 21 is 1.5m, route 13 is 2.9m and route 16 is 0.00m
	d Cutting Width	<input type="radio"/>	√	<input type="radio"/>	Cutting Width Route 21 ,13 is 76m
	e Dredged Volume	<input type="radio"/>	√	<input type="radio"/>	Total Dredged Volume 219973.00 cum (Route 21 is 12879.00cum, Route 13 is 91176.00cum & Route 16 is 0.00 cum)
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"/>	Using 5rs/4nrs of outlet of this compartment
10	Check whether the dykes are being constructed at safe distance from river bank	<input type="radio"/>	√	<input type="radio"/>	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/buiding.	○	√	○	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 21 (Laharhat-Bheduria) on dated 05.12.2024 & 23.12.2024 2..Engineering survey work done for lot 3 Route no 13 (North Athazar-Alubazar-Horina) on dated 15.12..2024 3. Post Survey work for Route number 21 (Laharhat-Bheduria) on dated 26.12.2024 to 27.12.2024 4. Post Survey work for Route no 13 (North Athazar-Alubazar-Horina) on dated 28.12.2024 .

**Table 23: Checklist of Environmental and ESHS Activities Lot-3, December 2024, BRWTP-S1A**

Factors	Checklist Items		Dredging Activity			Comments/Compliance
			Daily	Monthly	Quarterly	
1. Permits and Explanation	1	EIA and Environmental Permits	○	○	√	Not found/observed at site for all route in lot_3
	2	Explanation to the Local Stakeholders	○	○	√	
	3	Signboards, Notice Boards	○	○	√	
2. Physical Environmental Parameters Monitoring	1	Air Quality	○	√	○	Test done for Route no. 13 only on dated 09.12.2024; 10.12.2024 & 11.12.24
	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)	○	√	○	
	9	Phyto- & Zoo-planktons	○	√	○	
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	○	○	√	

Factors	Checklist Items		Dredging Activity			Comments/Compliance
			Daily	Monthly	Quarterly	
	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
	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 24: Checklist of Environmental and Social Activities Lot-3, December 2024, BRWTP-S1A**

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



**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**

Category	Environmental Item	Main Check Items	Yes: Y No: N
	(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
		(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 SIA 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)?	Y
		(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

**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**

Category	Environmental Item	Main Check Items	Yes: Y No: 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?	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
	(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 25: GRM Checklist, Lot-3, December 2024, BRWTP-S1A

**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	
1	Legal and Regulatory Compliance	1	The contractors communicate to all the stakeholders regarding GRM processing and lodging complaints.	○	○	○	√	
		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.21 & Route 13
		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 Committee	1	Preparation of GRM Committee Constitution by the Contractors.	○	○	○	√	
6	Establish a Complaint Box	1	Nos. of Feedback, concerned, 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 Billboard.	○	○	√	○	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 [ In a five (5) members committee meeting Three (3) members participation will be the quorum]	○	○	○	√	Local level GRC committee formed by Banga contractor on dated 14th October,2023
		2	Contractor level GRC [ In a five (3) members committee meeting Three (3) members participation will be the quorum]	○	○	○	√	Local level GRC committee formed by Banga contractor on dated 14th October,2023
		3	Project level GRC [ In a five (3) members committee meeting Three (3) members participation will be the quorum]	○	○	○	√	Local level GRC committee formed by Banga contractor on dated 14th October,2023

**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	
9	Capacity Building	1	Project staffs and local institutions have received training on the GRM 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 or 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 Violence (GBV)	1	Sex Violence by an intimate partner	○	○	○	√	None of these has been found/observed for the month of December, 2024
		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 4 -12 hours.	○	○	○	√	When required