



The Government of the People's Republic of  
Bangladesh



Bangladesh Inland Water Transport Authority  
(BIWTA)



The World Bank



## MONTHLY PROGRESS REPORT OCTOBER 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**



Jurutera Perunding Zaaba SDN.BHD,  
Malaysia (JPZ)



Demas Dredging Consultants BV,  
the Netherlands (DEMAS)



JPZ Consulting Ltd,  
Bangladesh (JCL)

## 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 performance-based contracts.

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 of Contractors (October 2024)

#### Lot-2 Contractor

No survey or dredging activities during this reporting period. The Contractor took samples in 2 locations on Route-9 for environmental quality assessment.

Preparatory work for the commencement of Phase II is yet to be completed and includes, but is not limited to:

1. Submission of the completion report for Phase I, including as-built drawings.
2. Submission of the Phase II work plan and resource allocation, including manpower deployment within the remaining timeframe for Phase II.
3. Conducting a pre-hydrographic survey over the entire length of the contracted Lot-2 routes.
4. Updating the C-ESMP and DDMP.

#### Lot-3 Contractor

The Contractor submitted alignment and volume according the pre-hydrographic survey of all Routes under Lot 3 required for Phase-II capital dredging. The Contractor started dredging work on 10th October 2024, continuing until 31st October 2024, at the *Laharhat-Bheduria* Route 21. Dredgers *Banga Jamuna* and *Banga Shitalakkhya* were active. During this reporting period the total dredging length was 552 meters; cutting width was 85 meters, and the average cutting depth was 2.45 meters.

Preparatory work for the commencement of Phase-II also includes, but is not limited to:

1. Maintenance report of the dikes constructed along Routes 16 and 21 respectively
2. Lot 3 did not submit the revised and updated CESMP before starting the dredging work along Route 21.

### **S1A Consultant's Activities during the Reporting Period (October 2024)**

**Lot-2:** The S1A Consultant performed monitoring hydrographic surveys on Routes 05, 06, 7 & 8, and 09 throughout October 2024, and this will continue along Route 05. The Contractor is advised for execution of Pre-hydrographic surveys of all Routes under Lot 2 and to calculate dredging volume before starting Phase-II. Regarding navigational aids, the installation of PC poles is complete, while work on lighted buoys and tower beacons is ongoing. The setup of the monitoring system is pending due to SIM card availability. The S1A Consultant advised the Contractor to complete all the outstanding work pertinent to Aid to Navigation work.

**Lot-3:** For Lot-3, The S1A consultant reviewed the alignment and volume required for dredging according to the joint pre-hydrographic survey of Routes 12, 13, 13a, 15, 16, 17, and 21 of Lot-3.

The S1A Consultant supervised the day to day dredging activities the Contractor has commenced on Route 21 from 10th to 31st October using dredgers *Banga Jamuna* and *Banga Shitalakkhya*, covering a total length of 552 meters. The Lot 3 Contractor was instructed to submit the revised and updated CESMP and site-specific dike design and dredged material management plan.

### **Environmental, Social, and Resettlement Aspects**

The S1A Consultant monitored and reviewed the ESHS activities during the October 2024 reporting period along Routes 09, 16, and 21 whether they comply with the national and international environmental standards for air, noise, and water quality. No adverse impacts on biodiversity, such as fish mortality or sightings of endangered species, were observed. Fishing restrictions were enforced by the Department of Fisheries in compliance with the Mother Hilsa ban period from 22<sup>nd</sup> October. The project currently includes 74 dredged disposal areas. In October, dredged materials were disposed of at Dike-20 and Dike-21 on Route 21. Social and environmental activities, including GRM implementation and field visits, were conducted by the S1A-ESHS team for both Lot 2 and Lot 3.

## Table of Contents

EXECUTIVE SUMMARY .....	2
LIST OF FIGURES .....	5
LIST OF TABLES .....	5
ABBREVIATION .....	6
CHAPTER 01: .....	7
PROJECT DESCRIPTION IN A BRIEF .....	7
1.1 Basic Information .....	7
.....	8
CHAPTER 02: .....	10
SALIENT FEATURES & MONTHLY PROGRESS .....	10
2.1 PROGRESS OF BRWTP-S1A: .....	10
2.1.1 Development and Maintenance Dredging Works and Monitoring Survey Records: .....	10
2.1.1.1 Lot-2: .....	10
2.1.1.2 Lot-3: .....	10
2.1.1.3 Status Report on Navigational Aids Installation at Dredging Sites: .....	11
2.1.2 Environmental Quality Assessment: .....	11
2.1.3 Social and Resettlement Aspects: .....	12
Social and Resettlement Status for Phase-II Capital Dredging Activities up to October 2024 .....	12
Lot-2 Progress Update (Up to 31st October 2024) .....	12
Lot-3 Progress Update (Up to 31st October 2024) .....	13
New Dike Information for Route 21 .....	13
2.1.3.1 Land Acquisition/Requisition/Charity for Dike Location Selection: .....	14
2.1.3.2 Communication and Public Consultation: .....	14
2.1.3.3 Field activities, BRWTP-S1A expert (October 2024): .....	15
2.1.4 Grievance Redressal Mechanism (GRM): .....	15
2.1.4.1 GBV/SEA/SH by workers and enforcement of the CoC .....	15
2.1.5 ESHS, Worker Employment, and OHS Status: .....	15
2.2 PROGRESS OF LOT-2 (GULF COBLA-KARNAFULY JV) CONTRACTOR: .....	17
2.2.1 Development and Maintenance Dredging Works: .....	17
2.2.3 Social and Resettlement Aspects at Lot-2 Site: .....	17
2.3 PROGRESS OF LOT-3, (DHARTI-BANGA JV) CONTRACTOR: .....	17
2.3.1 Development and Maintenance Dredging Works: .....	17
2.3.2 Environmental Quality Assessment of Lot-3 Site: .....	18
2.3.3 Social and Resettlement Aspects at Lot-3 Site: .....	18
CHAPTER 03: .....	19
ACHIEVEMENT OF THIS MONTH'S AND NEXT MONTH'S PLAN .....	19
3.1 ACHIEVEMENT OF THIS MONTH (OCTOBER 2024): .....	19
3.2 NEXT MONTH PLAN: .....	19
CONCLUSION AND RECOMMENDATIONS .....	21
Conclusion .....	21
Recommendations .....	21
CHAPTER 05: ANNEXURE .....	<b>Error! Bookmark not defined.</b>

## LIST OF FIGURES

Figure 1: River Boundary Lot-2 .....	8
Figure 2: River Boundary, Lot-3 .....	9
Figure 3: Condition of Dike No. 36 on Route 09 at Baherchar, Bancharampur in May 2024 and Current condition of Dike No. 36 in the reporting month.....	13

## LIST OF TABLES

Table 1: River Routes Lot-2 .....	8
Table 2: River Routes Lot-3 .....	9
Table 3: Sample Collection Locations in this month (October 2024) .....	12
Table 4: Interaction with Client/Contractors and other Stakeholder (October, 2024) .....	14
Table 5: Monthly Progress of GRM Report, October, 2024 in Lot-02 & Lot-03 .....	15
Table 6: ESHS Status at a Glance in October 2024.....	16
Table 7: Summary of Monitoring Hydrographic Survey Chart, Lot-2, October 2024. <b>Error! Bookmark not defined.</b>	
Table 8: Joint Post Hydrographic Survey/Pre Hydrographic Survey for Phase-II Capital Dredging, Lot-2, October 2024. .... <b>Error! Bookmark not defined.</b>	



### ABBREVIATION

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

## CHAPTER 01: PROJECT DESCRIPTION IN A BRIEF

---

### 1.1 Basic Information

Project Title	:	Consultancy Services for Supervision and Monitoring of Performance-Based Dredging Contracts with Maintenance Dredging and Installation and Maintenance of Navigational Aids along the Navigational Routes under the Contract
Source of Funding	:	The World Bank
Contract No.	:	BRWTP-S1A
Employer	:	Bangladesh Inland Water Transport Authority (BIWTA)
Consultant	:	JPZ-DEMAS-JCL JV
Date of signing the contract	:	21 <sup>st</sup> October 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

## LOT-2

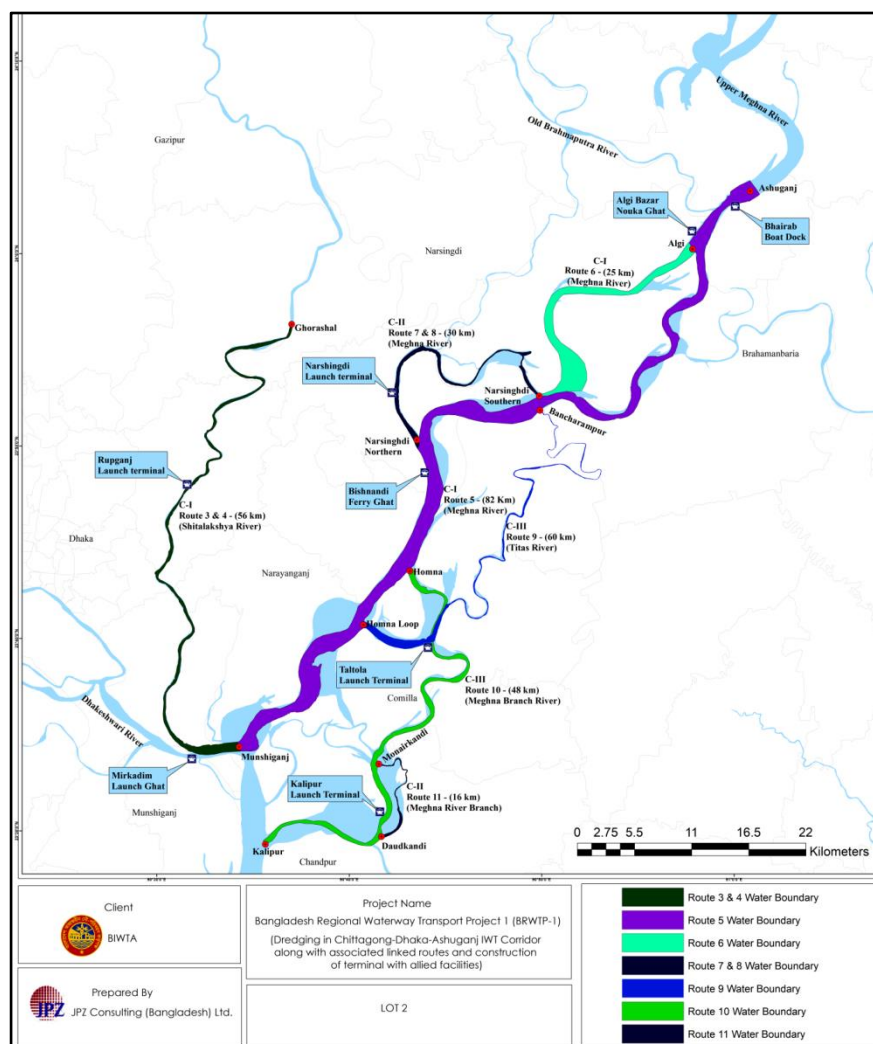


Figure 1: River Boundary Lot-2

Table 1: River Routes Lot-2

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





## CHAPTER 02: SALIENT FEATURES & MONTHLY PROGRESS

### 2.1 PROGRESS OF BRWTP-S1A:

#### 2.1.1 : Development and Maintenance Dredging Works and Monitoring Survey Records:

##### 2.1.1.1 Lot-2:

No survey or dredging activities during this reporting period. The S1A Consultant monitored hydrographic surveys on Routes 05, 06, 7 & 8, and 09 throughout October 2024, and this will continue along Route 05. The Contractor is advised for execution of Pre-hydrographic surveys of all Routes under Lot 2 and to calculate dredging volume before starting Phase-II.

By analyzing the entire hydrographic chart, some portions of the slope side were found to be incomplete throughout the dredging route of Lot-02, especially along Route-09. The Lot-02 Contractor should carry out Pre hydrographic survey of all the routes as soon as possible before starting Phase-II work.

Lot-2 Contractor completed the Post-hydrographic joint survey on 1<sup>st</sup> October 2024 in Route 11.

**Table 3: Monitoring hydrographic survey work done by S1A Consultant, Lot-2, October 2024.**

SL No.	Date	Route No.	Chainage	Length (km)
1	04-October-2024 to 12-October-2024.	Route 05 Location: Meghna (Ashuganj to Munshiganj).	0+000 to 15+000	15.000
2	13- October-2024 to 15-October-2024.	Route 06 Location: Meghna (Nabinagar Loop joining Route 5)	0+000 to 27+100	27.100
3	16- October-2024 to 23-October-2024	Route 09 Location: Meghna (Bancharampur-Homna Loop).	0+000 to 57+550	57.550
4	28- October-2024 to 30-October-2024	Route 07&08 Location: Meghna (Narsingdi Northern & Southern approaches)	0+000 to 28+000	28.000
<b>Total (km)</b>				<b>127.65</b>

In October 2024, on Route 09, no dredger was active; however, Karnafuly-5 and Karnafuly-7 were stationed in Joynagar, Bancharampur, Brahmanbaria.

##### 2.1.1.2 Lot-3:

The S1A consultant reviewed the alignment and volume required for dredging according to the pre-hydrographic survey of Lot 3. The Contractor started dredging work on 10th October 2024, continuing until 31st October 2024, at the Laharhat-Bheduria Route 21. Dredgers *Banga Jamuna* and *Banga Shitalakhya* were active. The total chainage covered was from K8+450 to K8+300 and from K7+200 to K7+445. The total length was 552 meters; the cutting width was 85 meters, and the average cutting depth was 2.45 meters during this reporting period.

**Table 4: Joint Pre hydrographic survey work for phase-II done by S1A Consultant, Lot-3, October 2024.**

SL No.	Date	Route No.	Chainage	Length (km)
1	14 October 2024 to 15 October 2024	Route 16: Location: Tentulia (Bheduria to Laharhat)	0+000 to 1+600	1.600
2	21 October 2024 & 22 October 2024	Route 13: Location: Meghna and Arial Khan	0+000 to 101+000	101.000
		<b>Total (km)</b>		<b>102.6</b>

**Table 5: Joint Monitoring survey work done by S1A Consultant, Lot-3, October 2024.**

SL No.	Date	Route No.	Chainage	Length (km)
1	20 October, 2024	Route 12: Location: Dakatia (Chandpur – R140 bridge)	0+000 to 10+000	10.000
2	20 October 2024 & 22 October 2024 to 27 October, 2024	Route 13: Location: Meghna and Arial Khan	0+000 to 101+000	101.000
3	18 October 2024 & 19 October 2024	Route 13a: Location: Char Hizla looping	0+000 to 17+750	17.750
4	15 October 2024 to 17 October 2024	Route 15: Location: Tentulia (Patarhat- Elisha)	0+000 to 13+500	13.500
5	13 October 2024	Route 16: Location: Tentulia (Bheduria to Laharhat)	14+600 to 13+000	1.600
6	12 October 2024	Route 17: Location: Tentulia (Athazar to Laharhat)	0+000 to 12+000	12.000
		<b>Total (km)</b>		<b>155.85</b>

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

Attended all the weekly coordination meetings and discussed about the updated development with installation of Aids to Navigation along the various routes under Lot 02 & Lot 03 as per contract BRWTP-W1A-02 & BRWTP-W1A-03 respectively. Meetings with Additional Secretary ERD, PIU & S1A discussed the latest status on the installation of Aids to Navigation. Reports stated the following:

#### LOT 02:

- Completed installation with all the P.C poles along routes under Lot-02
- Installation works of Lighted Buoys found to be in progress.
- Installation works on Lighted Tower Beacons are in progress.
- Monitoring System being established. Waiting for GP SIM Cards.

#### LOT 03:

- Completed the installation of PC Poles
- Completed with Installation of Tower Beacons
- Completed the installation of Lighted Buoys

### 2.1.2 Environmental Quality Assessment:

The S1A team reviewed the environmental data provided by the Contractors' monitoring team. For this month (October 2024), monthly monitoring was conducted at Route 09 Bancharampur/Homna Loop

named Salimganj under Lot-2, as well as River Routes 16 & 21 under Lot-3. The details of the sample collection locations are presented in the table below:

**Table 3: Sample Collection Locations in this month (October 2024)**

Month	Environmental Variables.	Lot2	Lot-3
		River Name and Sample Collection Location	River Name and Sample Collection Location
October, 2024	Ambient air quality in and around the dredging site	<ul style="list-style-type: none"> <li>River Route-09 (Bancharampur/Homna Loop named Salimganj)</li> </ul>	<ul style="list-style-type: none"> <li>River Route- 16: <i>Meghna/Tentulia</i> (Mehendiganj-Bheduria)</li> <li>River Route-21: <i>Tentulia</i> (Bheduria -Laharhat)</li> </ul>
	Noise level quality assessments		
	Underwater Noise Level		
	Surface Water Quality		
	Riverbed Sediment		
	Dredged Material		
	Aquatic Fauna (Fish, Dolphin, Turtle)		

At the time of the monitoring period, Dredging had begun on Route 21. This month, environmental monitoring activities across multiple parameters within Route 16 and Route 21 and dredged material analysis at Dike 20 & 21 which are new dikes built for Route 21's second phase.

During the reporting month, twenty-nine (29) species of fish and three (03) species of crustaceans were observed in the surveyed Route 09 at the Lot 2 site. No fishing activities were observed along Route 16 and Route 21 of Lot 3 site due to the the Government-imposed Mother Hilsa ban period. During this reporting period, local people and fishermen mentioned that following the the Government rules they refrained from fishing during the ban period. Environmental monitoring data for October 2024 indicate that the dredging work has not had any significant negative impact on any parameters. All laboratory data showed values within the standard range and close to the baseline data (Annexure IV).

Both the Contractors of Lot 2 and Lot 3 did not submit the revised and updated C-ESMP nor the site-specific dredged material management plans. The Contractors were instructed to submit the CESMP and DMMP.

### 2.1.3 Social and Resettlement Aspects:

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

The S1A Environmental, Social, Health, and Safety (ESHS) team developed a plan to address social risks, engage local stakeholders, and ensure the project's alignment with environmental health and safety standards. The outlined measures aim to mitigate adverse social and environmental impacts and enhance community benefits during the Phase-II capital dredging activities. Details can be found in Annex VII.

#### Lot-2 Progress Update (Up to 31st October 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 successfully 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.

#### 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, 7, and 8.

### PIU Directives:

The PIU informed the S1A consultant that, since the Government now manages 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.

**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 is as follows:

- **Single-crop agricultural land:** 80%
- **Two-crop agricultural land:** 11%
- **Fallow land/ponds:** 8%
- **School and community property:** 1.6%

The selected locations for dike placement align with the preferences and needs of the local community. The dredged materials are being utilized for land development and to enhance agricultural productivity.



Figure 3: Condition of Dike No. 36 on Route 09 at Baherchar, Bancharampur in May 2024 and Current condition of Dike No. 36 in the reporting month

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

**Disposal Site Identification:** Within Lot-3, 23 disposal sites have been identified. However, six dikes have not yet received the lease payments from the PIU. The S1A consultant has requested the PIU to expedite these payments to prevent grievances among the affected parties.

**Issues with Lease Agreements:** In many cases, landowners have agreed to the use of their land without formal contracts, primarily due to delays in receiving payments in previous leases. One significant challenge is that the disposal of dredged materials often renders the land unsuitable for cultivation, requiring a waiting period of 6-8 years before it becomes usable again.

**Mitigation Measures:** To address this, a key mitigation strategy is to preserve the topsoil before depositing dredged materials. Once disposal is completed, the preserved topsoil should be reapplied over the dredged material. This approach will considerably reduce the time needed for the land to recover and be ready for agricultural use.

### New Dike Information for Route 21

Three additional dikes have been developed along the Laharhat-Bheduria route (Route 21) in Ghagoria Union, Mehandiganj Upazila, Barisal District:

1. Dike R21-D19:
  - Area: 6,300 sqm
  - Height: 1.1 meters
  - Estimated Capacity: 6,930 cubic meters
  - Location: Bank of Tentulia River
  - Usage Period: 10th October 2024 – 25th October 2024
2. Dike R21-D20:
  - Area: 12,150 sqm
  - Height: 2 meters
  - Estimated Capacity: 24,300 cubic meters
  - Location: Bank of Tentulia River
3. Dike R21-D21:
  - Area: 2,800 sqm
  - Height: 3 meters
  - Estimated Capacity: 8,400 cubic meters
  - Location: Bank of Tentulia River

### 2.1.3.1 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.

### 2.1.3.2 Communication and Public Consultation:

Meetings and Consultations were conducted within this period regarding the dredging with the 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 4: Interaction with Clients/Contractors and other Stakeholder (October, 2024)**

SN	Date	Venue	Meeting Agenda	Participants
1.	01.10.2024	BRWTP-S1A Project Office, BSC Tower, S1A Conference Room.	Monthly Progress Meeting	S1A Consultant Team
2.	02.10.2024	Conference room of PIU	Coordination Meeting on Execution of Pre-Hydrographic Chart, the ongoing activities at Ashuganj Terminal, Final Bill Processing, Review of the final bill for Phase 1 Capital Dredging of Lot 2, instead of the 6th RA, which is currently under review, Submission of Hydrographic Survey Log Sheet, Confirmation of the submission of the hydrographic survey log sheet, along with the invoice for June-July 2024. And update on the progress of the website installation, which is nearing completion.	S1A Consultant and PIU Representatives.
3.	24.10.2024	BRWTP-S1A Project Office, BSC Tower, Conference Room of PIU.	Progress Meeting on 1 <sup>st</sup> Phase completion and commencement of Phase-II.	Representation from Planning Commission, PIU, S1A Consultant and Contractors.



SN	Date	Venue	Meeting Agenda	Participants
4.	29.10.2024		Talk to local people & Speedboat Drivers and Fishermen to find out the Pros and cons of Dredging	Local People, Lot-2 Contractor and S1A
5.	30.10.2024	Bishwampur Union Land Office	Focus Group Discussion on the Impact of Sand Disposal on Local Community	Focus Group Discussion with Local Elites & Dike Owners (Dike No. 48)

### 2.1.3.3 Field activities, BRWTP-S1A expert (October 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. Tables illustrate detailed field activities at Lot 2 and Lot 3 in Annex-III.

### 2.1.4 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 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 5: Monthly Progress of GRM Report, October, 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	The reports are updated accordingly if any complaints are raised.	No complaints have been received from local communities during this reporting period.

#### 2.1.4.1 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.

### 2.1.5 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 report of both Contractors. The collected data is shown in the table below.

**Table 6: ESHS Status at a Glance in October 2024**

ESHS Issues	Parameters	Lot-2	Lot-3
<b>Occupational Health and Safety (OHS)</b>	Set up a first aid clinic room, equipped with amedical 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
<b>Workers' Condition and Employment Situation</b>	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
<b>Personal Protection Equipment (PPE) for all staff/workers working on the site.</b>	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
<b>Traffic management</b>	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. The S1A Consultant monitored hydrographic surveys on Routes 05, 06, 7 & 8, and 09 throughout October 2024, and this will continue along Route 05. The Contractor is advised for execution of Pre-hydrographic surveys of all Routes under Lot 2 and calculate dredging volume before starting Phase-II. Lot-2 Contractor completed the Post-hydrographic joint survey on 1<sup>st</sup> October 2024 in Route 11.

During the reporting period of October 2024, survey work was carried out at the Lot-02 site, covering several routes:

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

In October 2024, environmental monitoring was conducted along Route 09 focusing on air quality, noise levels, and water quality. All measured parameters, including particulate matter, gaseous substances, and noise levels, were within national and international standards. Surface water sampling indicated no significant impact from ongoing dredging activities and no major pollution or safety issues were observed. Fisheries surveys identified with no fish mortality reported. Additionally, no Ganges River Dolphins or freshwater turtles were observed along the surveyed routes, and no grievances were raised, indicating a harmonious work environment. Details are in Annexure IV.

### **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 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:**

The S1A consultant reviewed the alignment and volume required for dredging according to the pre-hydrographic survey of Lot-3. The Contractor started dredging work on 10th October 2024, continuing until 31st October 2024, at the Laharhat-Bheduria Route 21. Dredgers *Banga Jamuna* and *Banga Shitalokkha* were active. The total chainage covered was from K8+450 to K8+300 and from K7+200 to

K7+445. The total length was 552 meters; the cutting width was 85 meters, and the average cutting depth was 2.45 meters during this reporting period.

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

In October 2024, environmental monitoring focused on air quality, noise levels, and water quality across Routes 16 and 21, with all assessed parameters found within national and international standards. No fish mortality, Ganges River Dolphins, or freshwater turtles were observed during this reporting period. Throughout the reporting period, all safety measures were effectively implemented, and no grievances or environmental issues were reported. There was no fishing activities observed along Route 16 and Route 21 due to the the Government-imposed Mother Hilsa ban period. During this reporting period, local people and fishermen mentioned that following the the Government rules they refrained from fishing during the ban period.

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

At present **26** disposal areas are completed in this site. So far, six Lease Agreements have been established with landowners; however, these landowners have yet to receive the leased money from the Project Implementation Unit (PIU). The remaining 20 Good Faith Agreements (GFAs) are still pending for finalization. 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 (GoB).

In October 2024 dredged materials from active dredgers were disposed of at Dike-20 (22°42'43"N 90°33'5"E) and Dike-21 (22°42'35"N 90°33'48"E) in Route-21 adjacent to Bheduria Ferry ghat. The locations of these dredged material disposal areas are provided in Annexure I.

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

---

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

#### S1A

- a) Monitoring hydrographic surveys on Routes 05, 06, 7&8, and 09 throughout October 2024 and will continue along Route 05, under Lot 2 during the following months.
- b) Monitoring hydrographic surveys were carried out between 12th to 27th October 2024 on Routes 12, 13, 13a, 15, 16, and 17, covering various chainages under Lot 3.

#### LOT-2

- a) Post-hydrographic joint survey was completed on 1<sup>st</sup> October 2024 on Route 11.
- b) Related Environmental, Social, and GRM Activities have been conducted.
- c) Field visits were carried out by the S1A-ESHS team.

#### LOT-3

- a) Jointly Pre hydrographic Surveys were carried out along Routes 13 and 16 for Phase II of Lot-3.
- b) Related Environmental, Social, and GRM activities have been conducted.
- c) Field visits were carried out by the S1A-ESHS team.

### 3.2 NEXT MONTH PLAN:

#### S1A

- a) Ongoing intermittent monitoring hydrographic surveys will continue and be completed for Routes 05, under Lot-2.
- b) Preparing hydrographic chart from monitoring survey to check the dredging quality and quantity after dredging for Phase-II of Lot-2 and 3.
- c) Supervising and monitoring dredging activities, environmental quality, ESHS, and GRM activities for Lot-2 and Lot-3.
- d) Field visit
- e) Accelerating the Navigational Aid Installation work plan submitted by the Contractors for Lot 2 and Lot 3.
- f) Organizing meetings with the environmental teams of the Lot-2 and Lot-3 Contractors.

- g) Supervising activities in preparation for Phase-II capital dredging in both Lots.
- h) Phase II Environmental Work Plan will be prepared after submission of an updated CESMP (Contractor Environmental and Social Management Plan) by the Contractors.

## **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, Conducting a pre-hydrographic survey over the entire length of the contracted Lot-2 routes
- 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.
- f) Preparatory work for Phase-II of the capital dredging will be continuing.

## **LOT-3**

- a) Submission of the completion report for Phase I, including as-built drawings, including the status of the old dikes.
- b) Submission of the Phase II work plan and resource allocation, including manpower deployment
- c) 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.
- d) 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.
- e) The Lot-3 Contractor will accelerate the installation of Aids to Navigation.
- f) The Lot-3 Contractor's ESHS team is advised to carry out the recommended field visits during the dredging operation.
- g) Preparatory work for Phase II of the capital dredging will be continuing.



## CHAPTER 04: CONCLUSION AND RECOMMENDATIONS

---

### Conclusion

During October 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.

Environmental and social compliance was maintained, with no adverse impacts on local wildlife or communities. Effective field visits and GRM implementation were carried out to address potential concerns.

Up to October 2024 total of 23 disposal sites have been identified so far under Lot-3. However, six dikes have not yet received the lease payments from the PIU. The S1A consultant has recommended the PIU to expedite these payments to prevent grievances among the affected parties.

The progress of Lot-2 in completing Phase I activities and preparing for Phase II is lagging. Proactive measures are required to avoid time pressure for completing Phase II. Despite repeated advisories from the S1A Consultant, no improvement has been observed from the Lot-2 Contractor during this reporting period.

In May 2024, the Deputy Commissioners of Brahmanbaria and Narsingdi decided that the UNO offices, in coordination with the PIU, BIWTA, and BRWTP-S1A, would oversee the selection of dike locations. This decision eliminated the need for additional GFAs on Routes 6, 7, 8, and 9.

The PIU informed the S1A consultant that, as of May 2, 2024, the Government is responsible for land selection and sand procurement, making GFAs unnecessary. In response, the S1A consultant has taken necessary actions accordingly. However, despite repeated efforts, the consultant continues to face challenges in obtaining relevant information from Government offices.

The consultant recommends that the PIU coordinate with the Government to confirm whether documents such as contracts with landowners, leased area details, and the volume of dredged soil/sand are required for record-keeping purposes.

## **CHAPTER 05: ANNEXURE**

## ANNEX I:

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

#### Lot-2

**Table 7: Status of Good Faith Agreements (GFA) for Phase-I Capital Dredging, Lot 2 (74 Dyke)**

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:12104880921009	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: 1218575050084	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

**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	
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
D18	9	Kader Miah NID: 1210488088731 Mbl: 01712830171	Village:Akanagar Union: Tejkhal Upazila:Bancharampur District: Brahman Baria	Mouza: Akanagar, Plot no. 2948/2149/2150/2151/2152, BS 650-JL no. 13.	192	Agriculture land (One Crop)	Done. Soft copy available
D19	9	Md. Kabir Hossain NID: 1210488087685 Mbl: 01789160113	Village:Akanagar Union: Tejkhal Upazila:Bancharampur District: Brahman Baria	Mouza: Akanagar, Plot no. 2948/2149/2150/2151/2152, BS-642 JL no. 13.	32	Agriculture land (One Crop)	Done. 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: Tejkhal 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: Tejkhal Upazila:Bancharampur District: Brahman Baria	Mouza: Bahir char SA Khatian: 556, Plot no: 613,857 JL No. 41	84	Agriculture land (One Crop)	Done. Soft copy available
D23	9	1.Alongir Hossain NID: 19781210488000 039 Mbl: 01741735087	Village: Bishnursmpur Union: Tezkhal 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 Miaz NID: 19921216488000 130 Mbl:	Village: Bishnursmpur Union: Tezkhal Upazila:Bancharampur District:	Mouza: Bishnursmpur SA Khatian: 172, Plot no: 1308,1497,1448,427,1105 JL No 43	174	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	
		01985728652	Brahman Baria				
D26	9	1. Gazi Kawsar NID: 3298455597 Mbl: 01713685001 2. Gazi abdu Salam NID: 2398479119 Mbl: 01740956081 3. Md. Zakir Hossain NID: 7348561049	Village: Aka Nagar Union: Tezkhali Upazila: Bancharampur District: Brahman Baria.	Mouza No: Aka Nagar SA Khatian: 3921,4096,3941 Plot No: 5760,5705,5707,5790,6370,6698,5744,5711,5384,5715 JL No 13	310	Agriculture land (One Crop)	Done. Soft copy available
D27	9	Md. Hanif NID: 5501395304 Mbl: 01717531207	Village: Bishnurampur Union: Bishnurampur Upazila: 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
D30	9	1. Md. Farid Mia NID: 3298435581 Mbl: 01317622313 2. Abdul Wahab NID: 6894609699 Mbl: 01735786521	Village: Bahirchar Union: Tezkhali Upazila: Bancharampur District: Brahman Baria.	Mouza. Bahirchar Plot no. 119,1084,415 Khatian No: 551,61,108 JL No: 41	88	Agriculture land (One Crop)	Done. 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	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

**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**

Dyk e no.	Route No	Land Owner		Land			Good Faith Agreement Status
		Name and NID	Address	Description	Quantit y (Decim al)	Quality of Land	
		NID: 8707793660 Mbl: 01735786521					
D 34	9	1. Md. Billal NID: 2398523114 Mbl: 01725835721 2. Arfat Ali NID: 8257731771 Mbl: 01985789351	Village: Bahir Char Union: Tezkhali Upazila: Banchara mpur District: Brahman Baria.	Mouza. Bahirchar Plot no. 25/400,217/652,268/418,628,708 Khatian No: 209,74 JL No: 41	84	Agricultur e land (One Crop)	Done. Soft copy available
D 35	9	1. Abdul Awal NID: 3746376999 Mbl: 01918578062 2. Abul Kalam NID: 8695983695 Mbl: 01716592411 3. Abu Ishaq NID: 3712971580 Mbl: 01719834733 4. Nasir Uddin NID: 5546582717	Village: Barail Upazila: Nabinagar District: Brahman Baria.	Mouza. Barail Plot no. 1590,3267,3144,3274,3515,1802,1803 Khatian No: 544,163,1560 JL No: 04	113	Agricultur e land (One Crop)	Done. Soft copy available
D 36	9	1. Abdul Mannan NID: 8248455720 Mbl: 01738424077 2. Md. Jalal Mia NID: 4648465153 Mbl: 01735786521 3. Tazul Islam NID: 9173793036 Mbl: 01735786521	Village: Bahir Char Union: Tezkhali Upazila: Banchara mpur District: Brahman Baria.	Mouza. Bahirchar Plot no. 1286,1351,1649,144,1563,127 Khatian No: 549,600,996 JL No: 41	140	Agricultur e land (One Crop)	Done. Soft copy available
D37	9	Md. Swapon Mia NID: 8248495528 Cel: 01753828096	Village: Bahirchar Union: Tezkhali Upazila: Banchara mpur, District: Brahman Baria.	Mouza No. Bahirchar Khatian No: 530/616/1464 Plot: 553/552/554 JL No: 41	60	Agricultur e 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 NID: 5554116691 Mbl: 01815237615 4. Abu Musa NID: 6448345691 Mbl: 01712578351 5. Mst. Razia khatun NID: 2848376618 Mbl: 01735892711 6. Marfot Ali NID:	Village: Bahirchar Union: Tezkhali Upazila: Banchara mpur 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	Agricultur e 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	
		19761210488000 018 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	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

**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	
		4. Fazlul Karim NID: 9132487969					
D 45	9	1. Md. Alomgir NID: 2397009727	Village: Badda Dakkhin Para Union: Salimganj Upazila:Nabinagar District: Brahman Baria.	Mouza No. Jolli Khatian No: 1657 Plot: 291 JL No:16	22	Agriculture land (One Crop)	Done. Soft copy available
D 46	9	Md. Jalu Mia NID: 4155505789 Mbl: 01712892751	Village: Bahirchar Union: Tezkhali 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: 19791218575000 030 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: 19701218575000 009 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:	Village: Bahir Char Union: Tezkhali 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

**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	
		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					
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
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: 19821218575000 021 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: Tezkhali Upazila:Bancharampur District: Brahman Baria.	Mouza No. Bishnurampur Khatian No:1154 Plot: 1594 JL No:01	86	Fallow Land	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 55	9	Shahjalal NID: 8242023813 Mbl: 01625888695	Village: Bishnurampur Union: Tezkhali 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: 19821218575000 021 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: Tezkhali 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: Tezkhali 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
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.

**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**

Dyk e no.	Route No	Land Owner		Land			Good Faith Agreement Status
		Name and NID	Address	Description	Quantit y (Decim al)	Quality of Land	
D 63	9	Md. Ashikul Islam NID: 3268311275 Mbl: 01855997070	Village: Tezkhal Union: Tezkhal Upazila: Banchar mpur District: Brahman Baria.	Mouza No. Tezkhal Khatian No: 1852 Plot: 430/688/960/972/482 JL No: 42	120	Agricultur e 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	Agricultur e 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	Agricultur e 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	Agricultur e land (One Crop)	Agreement will be done by District administrati on
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: Alokbal 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% Agricultur e land (One Crop)	Done. Soft copy available
D 68	7&8	Md. Delwar Hossain NID: 9550769062 Mbl: 01712766109	Village: Bakhor nagar Union: Alokbal Upazila: Narsingdi Sadar District: Narsingdi	Mouza: Char Madhobpur SA Khatian No: 8723/4356/4126/4247 SA Plot No: 7879,7915,7880,8793,7891,7960,7961,9730,9731,9732,8730,896, 7496,7494,9756, 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: Alokbal Upazila: Narsingdi Sadar District: Narsingdi	Mouza: Char Madhobpur CS Khatian No: 122 SA Plot No: 12458/12466/12485 JL No: 52	91	Agricultur e 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	Village: Sat para Union: Alokbal 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	Agricultur e land (One Crop)	Awaiting PD's Approval. 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: 4601748173					
D 71	7&8	1. Md. Sheikh Farid NID: 6816020734834 Mbl: 01765-995824 2. Rezon Mia NID: 7358087984 Mbl: 01677556624	Village: Sat para Union: Alokballi Upazila:Narsingdi Sadar District: Narsingdi	Mouza: Char Madhobpur CS Khatian No: 121 SA Plot No: 6711/6512/6706/6727/6712/7364/7369/7794/7868 JL No: 62	170	Agriculture land (One Crop)	Awaiting PD's Approval. Soft copy available.
D 72	6	2. Sahad Mia NID: 1481632832 Mbl: 01855992870 2. Md. Jalal Fakir NID: 5851625392 Mbl: 01759252667	Village: Char Modhua Union: Char Modhua Upazila:Roypura District: Narsingdi	Mouza: Char Modhua CS Khatian No: 637 SA Plot No: 1062/1011/894/1131/42/131/806/811/913/1042/1181/1188 JL No: 123	290	Agriculture land (One Crop)	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 2: Status of Good Faith Agreements (GFA), Lot 3 (23 Dyke)**

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



**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 04	21	Jahangir Hossain NID: 6860475422 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
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

**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 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
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 Mbl # 01770198608	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
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

**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	
<b>Total dyke=26</b>	<b>Total Roue = 03</b>				<b>Total Land (Decimal) = 13,014</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 II: Photos of Project Activities (October 2024)

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





**ANNEX III:**

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

**Table 8: Field Activities of BRWRP-S1A at Lot-3 Site**

Serial No.	Date	Activity	Route name & Route number	Remarks
1	08.10.2024	Engineering survey work done for lot 3 Route number 21(Laharhat-Bheduria)	Route 21 (Laharhat- Bheduria)	Engineering Survey
2	10.10.2024.	Monitoring dredging work start for lot 3 Route number 21(Laharhat-Bheduria)	Route 21 (Laharhat- Bheduria)	Supervision of dredging work.
3	12.10.2024	Monitoring survey work for lot-3 Route no.17 (Atahazar-Laharhat)	Route no.17 (Atahazar-Laharhat)	Monitoring Survey
4	13.10.2024	Visit Dredger and dyke for lot 3 Route number 21(Laharhat-Bheduria) also Monitoring survey work done for lot 3 Route number 16 (Patarhat-Bheduria) with BIWTA representative.	Route number 21(Laharhat-Bheduria) and Route number 16 (Patarhat-Bheduria)	Monitoring Survey work and Dredging work.
5	15.10.2024 to 27.10.2024	Monitoring Survey work for Route number 15 (Patarhat-Elisha), Route no 13 a (Char Hizla), Route no 12 (Chandpur-R140 Bridge), Route no 13 (North Athazar-Alubazar-Horina)	Route number 15 (Patarhat-Elisha), Route no 13 a (Char Hizla), Route no 12 (Chandpur-R140 Bridge), Route no 13 (North Athazar-Alubazar-Horina)	Line survey work
6	20.10.2024	Focus group discussion and new disposal area visit and discussion/meeting with local people at Bheduria. New Disposal Area Dyke no.02 (Extension) and Dyke no. 21.	Route 21 (Laharhat- Bheduria)	Social Work
7.	26.10.2024	Visit Exucutive Engineer of BIWTA with PIU Team Jointly S1A Consultant at Barishal DC ghat also drone survey Route 13A ( Char Hizla) Dissucussing about Our working plan.	Route 13A (Char Hizla)	Monitoring

**Table 9:Field Activities of BRWRP-S1A at Lot-3 Site**

Serial No	Date	Activity	Route name & Route number	Remarks
01	01.10.2024	Bathymetric Survey Work ongoing jointly with Contractor by BIWTA	TBRWTP-S1A, Route-11, Lot_2	Complete
02	02.10.2024 To 03.10.2024	Checking survey report & Prepare the monthly site record report.	Site Office Solimganj	
03	04.10.2024 To 12.10.2024	Monitoring Hydrographic Survey with Ahydtech team ongoing.	Meghna(Ashuganj to Munshiganj). BRWTP-S1A, Route-05 Lot_2	Singlebeam Survey 50 meter interval
04	13.10.2024 To 15.10.2024	Monitoring Hydrographic Survey with Ahydtech team ongoing.	Meghna(Nabinagar Loop joining Route 5). BRWTP-S1A, Route-06 Lot_2	Singlebeam Survey

Serial No	Date	Activity	Route name & Route number	Remarks
05	16.10.2024	Monitoring Hydrographic Survey with Ahydtech team ongoing. Chainage:0+000~4+350 Place:Joykali to Nilukhi Length:4350m	Meghna(Bancharampur-Homna Loop). BRWTP-S1A, Route-09 Lot_2	Singlebeam Survey
06	17.10.2024	Monitoring Hydrographic Survey with Ahydtech team not performed today.	Meghna(Bancharampur-Homna Loop). BRWTP-S1A, Route-09 Lot_2	Echo Sounder machine problem.
07	18.10.2024	Monitoring Hydrographic Survey with Ahydtech team ongoing. Chainage:4+350~8+000 Place:Nilukhi to Barail Length:3650m	Meghna(Bancharampur-Homna Loop). BRWTP-S1A, Route-09 Lot_2	Singlebeam Survey
08	19.10.2024	Monitoring Hydrographic Survey with Ahydtech team ongoing. Chainage:8+000~14+350 Place:Barail to Jibonganj Length:6350m	Meghna(Bancharampur-Homna Loop). BRWTP-S1A, Route-09 Lot_2	Singlebeam Survey
09	20.10.2024	Monitoring Hydrographic Survey with Ahydtech team ongoing. Chainage:14+350~30+300 Place:Jibonganj to Bancharampur Length:15950m	Meghna(Bancharampur-Homna Loop). BRWTP-S1A, Route-09 Lot_2	Singlebeam Survey
10	21.10.2024	Monitoring Hydrographic Survey with Ahydtech team ongoing. Chainage:30+300~40+900 Place:Bancharampur to Radhanagar Length:10600m	Meghna(Bancharampur-Homna Loop). BRWTP-S1A, Route-09 Lot_2	Singlebeam Survey
11	22.10.2024	Monitoring Hydrographic Survey with Ahydtech team ongoing. Chainage:40+900~52+000 Place:Radhanagar to Taltuli feri ghat Length:11100m	Meghna(Bancharampur-Homna Loop). BRWTP-S1A, Route-09 Lot_2	Singlebeam Survey
12	23.10.2024	Monitoring Hydrographic Survey with Ahydtech team ongoing. Chainage:52+900~57+550 Place:Taltuli to Moisarchar Length:5550m	Meghna(Bancharampur-Homna Loop). BRWTP-S1A, Route-09 Lot_2	Singlebeam Survey (Complete)
13	24.10.2024	Going project office for Survey report check & contractor bill signing with masum billah.	Dhaka Project Office, Motijheel,Dhaka	
14	28.10.2024	Monitoring Hydrographic Survey with Ahydtech team ongoing. Chainage:0+000~5+700 Place:Birgau to Monipuraghat Length:5700m	Meghna(Narsingdi Northern & Southern approaches). BRWTP-S1A, Route-07&8 Lot_2	Singlebeam Survey
15		Going project office for Survey report check & contractor bill signing with masum billah.	Dhaka Project Office, Motijheel,Dhaka	

Serial No	Date	Activity	Route name & Route number	Remarks
	29.10.2024	Monitoring Hydrographic Survey with Ahydtech team ongoing. Chainage:5+700~17+300 Place:Monipura ghat to Narsindi launch ghat Length:11300m	Meghna(Narsingdi Northern & Southern approaches). BRWTP-S1A, Route-07&8 Lot_2	Singlebeam Survey
16	28.10.2024 and 30.10.2024	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 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.	BRWTP-S1A, Route-09, Lot_2	
17	30.10.2024	Monitoring Hydrographic Survey with Ahydtech team ongoing. Chainage:17+300~28+000 Place:Narsindi launch ghat to Maghna bazar Length:10700m  Monitoring Hydrographic Survey with BIWTA team ongoing. Chainage:0+000~13+000 Place:Char kishorganj to Baidyer bazar Length:13000m	Meghna(Narsingdi Northern & Southern approaches). BRWTP-S1A, Route-07&8 Lot_2  Meghna(Ashuganj to Munshiganj). BRWTP-S1A, Route-05 Lot_2	Complete  Multibeam Survey
18	31.10.2024	Monitoring Hydrographic Survey with BIWTA team ongoing. Chainage:0+000~28+000 Place:Narayanganj to Bishnondi ferighat Length:28000m	Meghna(Ashuganj to Munshiganj). BRWTP-S1A, Route-05 Lot_2	Multibeam Survey



## ANNEX-IV: Laboratory Test Results of Environmental Parameters, October, 2024

### Laboratory Test Result of Lot-2:



Ref: ELRC/Air Quality/2024307242

Project Name	: BRWTP-1, LOT-2: OPBC Works of Development Dredging with maintenance and Aids to Navigation with installation along inland waterway Routes- 3 & 4, 5, 6, 7 & 8, 9,10, and 11
Monitoring Activity	: Ambient Air Quality
Location	: AQ1: Near Salimganj Bridge; Route-9 (23.847550°N 90.843800°E) AQ2: Tejkhali Madrasha; Route-9 (23.823804°N 90.859212°E)
Monitoring Date	: 29.10.2024
Reporting Date	: 02.11.2024

#### Description of Analysis:

Location	Sampling Date	Ambient Air Pollutants' Concentration in µg/m3					CO mg/m3
		SPM	PM10	PM2.5	SO2	NO2	
AQ1	29.10.2024	163.84	80.26	40.48	28.19	37.49	0.7
AQ 2		137.11	74.87	35.55	21.33	36.69	0.7
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



**Office Address:**  
Flat #F1, House # Ta-134/A  
Baishakhi Sarani, Gulshan-Badda  
Link Road, Dhaka-1212, Bangladesh

Tel: +(880) 248810789-90  
+88(02) 9884077  
Mobile: +(880) 1911702074  
Email: info@elrcbd.com, elrcbd@gmail.com  
www.elrc.com.bd





Ref: ELRC/Noise Level/2024307243

<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 (23.847550°N 90.843800°E) NL2: Tejkhalī Madrasa; Route-9 (23.823765°N 90.859032°E)
<b>Monitoring Date</b>	:	29.10.2024
<b>Reporting Date</b>	:	02.11.2024

**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	66.8	42.5	60	70	Mixed area
NL2	55.1	62.8	39.3	60	70	

Note:

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

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



**Office Address:**  
Flat #F1, House # Ta-134/A  
Baishakhi Sarani, Gulshan-Badda  
Link Road, Dhaka-1212, Bangladesh

Tel: +(880) 248810789-90  
+88(02) 9884077  
Mobile: +(880) 1911702074  
Email: info@elrcbd.com, elrcbd@gmail.com  
www.elrc.com.bd





Ref: ELRC/Underwater Noise Level/2024307244

<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>	: UWN1: Titas River; Route-9 (23.833730°N 90.845430°E)
<b>Monitoring Date</b>	: 29.10.2024
<b>Reporting Date</b>	: 02.11.2024

**Description of Analysis:**

Code	Location	L <sub>Avg</sub> [dB (A)]	*Standard
UWN1	Titas River; Route-9	47.9	No International/ GoB Standard



**Office Address:**  
Flat #F1, House # Ta-134/A  
Baishakhi Sarani, Gulshan-Badda  
Link Road, Dhaka-1212, Bangladesh

Tel: +(880) 248810789-90  
+88(02) 9884077  
Mobile: +(880) 1911702074  
Email: info@elrcbd.com, elrcbd@gmail.com  
www.elrc.com.bd





Ref: ELRC/Surface Water Quality/2024307245

<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>	:	Surface Water – Lot 2
<b>Location</b>	:	SW1: Titas River; Route-9 (23.836950°N 90.845500°E) SW2: Titas River; Route-9 (23.826745°N 90.837943°E)
<b>Sampling Date</b>	:	29.10.2024
<b>Reporting Date</b>	:	02.11.2024

**Description of Analysis:**

Parameters	Unit	Concentration Present		Bangladesh Standard
		SW1	SW2	
Temperature	°C	27.5	27.8	-
EC	µS/cm	320	345	-
Turbidity	NTU	3.9	4	-
pH	-	7.73	7.77	6-9
TDS	ppm	168	170	1000
DO	mg/L	6.4	6.3	5 or more
Potassium	mg/L	28	25	-
Calcium	mg/L	34	31	-
Magnesium	mg/L	18	22	-
Phosphate	mg/L	1.2	1.2	-
Chloride	mg/L	27	29	-
Fluoride	ppm	0.8	0.9	-
Nitrate	mg/L	0.7	0.6	7
BOD5 (at 20°C)	mg/L	4.6	4.5	6 or less
Sulfate	mg/L	20	21	-
TSS	mg/L	175	178	-

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



**Office Address:**  
Flat #F1, House # Ta-134/A  
Baishakhi Sarani, Gulshan-Badda  
Link Road, Dhaka-1212, Bangladesh

Tel: +(880) 248810789-90  
+88(02) 9884077  
Mobile: +(880) 1911702074  
Email: info@elrcbd.com, elrcbd@gmail.com  
www.elrc.com.bd



### Laboratory Test Result of Lot-3:



Ref: ELRC/Air Quality/ AQMM2024-05

<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>	: 16.10.2024
<b>Monitoring Location</b>	: Route 16; (AQ-1)- 22°47'22.80"N 90°31'26.63"E Route 21; (AQ-2)- 22°41'59.28"N 90°33'18.97"E Route 21; (AQ-3)- 22°42'19.97"N 90°33'46.09"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 16	16/10/2024	61.99	37.41	15.77	11.20	15.02	0.6
AQ-2 Route 21	16/10/2024	64.40	39.34	18.61	12.88	14.92	0.8
AQ-3 Route 21	16/10/2024	68.22	44.06	17.60	14.53	17.33	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> <b>Instrument Use:</b> <b>Haz-Scanner TM (HIM, 6000)</b>		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

**Office Address:**  
Flat #F1, House # Ta-134/A  
Baishakhi Sarani, Gulshan-Badda  
Link Road, Dhaka-1212, Bangladesh

Tel: +(880) 248810789-90  
+88(02) 9884077  
Mobile: +(880) 1911702074  
Email: info@elrcbd.com, elrcbd@gmail.com  
www.elrc.com.bd





Ref: ELRC/Noise Level/ NLMM2024-05

<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> 22°47'21.06"N 90°31'29.45"E, <b>(Route 16)</b> <b>NL2</b> 22°42'31.69"N 90°33'6.44"E, <b>(Route 21)</b> <b>NL3</b> 22°42'19.27"N 90°33'44.26"E, <b>(Route 21)</b>
<b>Monitoring Date</b>	:	16.10.2024

**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	58.75	75.56	38.06	-	-	-
NL2	67.42	79.49	36.88	-	-	-
NL3	70.33	88.50	39.05	-	-	-

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

**Office Address:**  
Flat #F1, House # Ta-134/A  
Baishakhi Sarani, Gulshan-Badda  
Link Road, Dhaka-1212, Bangladesh

Tel: +(880) 248810789-90  
+88(02) 9884077  
Mobile: +(880) 1911702074  
Email: info@elrcbd.com, elrcbd@gmail.com  
www.elrc.com.bd





Ref: ELRC/ Underwater Noise Level/ UWNL2024-05

<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> 22°47'30.63"N 90°31'22.03"E, <b>Route 16</b> <b>UWNL2</b> 22°42'24.27"N 90°33'14.47"E, <b>Route 21</b> <b>UWNL3</b> 22°42'17.78"N 90°33'42.94"E, <b>Route 21</b>
<b>Monitoring Date</b>	:	16.10.2024

**Description of Analysis:**

Code	Location	L <sub>Avg</sub> [dB (A)]	*Standard
		[dB (A)]	
<b>UWNL1</b>	Route 16	59.2	<b>No standard of International / GoB</b>
<b>UWNL2</b>	Route 21	66.9	
<b>UWNL3</b>	Route 21	72.3	

**Office Address:**  
Flat #F1, House # Ta-134/A  
Baishakhi Sarani, Gulshan-Badda  
Link Road, Dhaka-1212, Bangladesh

Tel: +(880) 248810789-90  
+88(02) 9884077  
Mobile: +(880) 1911702074  
Email: info@elrcbd.com, elrcbd@gmail.com  
www.elrc.com.bd







Ref: ELRC/Surface Water Quality/ SWMM2024-05

<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- 16 & 21.
		SW1 - 22°47'19.57"N 90°31'36.93"E, Route 16
		SW2 - 22°42'16.70"N 90°33'46.23"E, Route 21
		SW3 - 22°42'15.73"N 90°33'2.27"E, Route 21
<b>Sampling Date</b>	:	16.10.2024

**Description of Analysis:**

Parameters	Unit	Concentration Present (Route – 16 & 21)			Bangladesh Standard
		SW1	SW2	SW3	
Temperature	°C	27.2	28.4	28.9	-
EC	µS/cm	296	308	304	-
Turbidity	NTU	6.9	6.6	6.7	-
pH	-	7.55	7.98	7.85	6 - 9
TDS	ppm	146	151	1.49	1000
DO	mg/L	7.5	7.2	7.6	5 or more
Potassium	mg/L	8.8	9.2	9.5	-
Calcium	mg/L	<0.01	<0.01	<0.01	-
Magnesium	mg/L	19	25	23	-
Phosphate	mg/L	<0.01	<0.01	<0.01	0.05
Chloride	mg/L	6.8	7.2	7.6	-
Fluoride	ppm	0.9	1.2	1.5	-
Nitrate	mg/L	0.8	0.9	1.1	7.0
BOD5 (at 20°C)	mg/L	1.7	1.9	1.7	6 or less
Sulfate	mg/L	19	22	20	-
TSS	mg/L	85	88	89	-

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

**Office Address:**  
Flat #F1, House # Ta-134/A  
Baishakhi Sarani, Gulshan-Badda  
Link Road, Dhaka-1212, Bangladesh

Tel: +(880) 248810789-90  
+88(02) 9884077  
Mobile: +(880) 1911702074  
Email: info@elrcbd.com, elrcbd@gmail.com  
www.elrc.com.bd





Ref: ELRC/ Riverbed sediment / SDMM2024-05

<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>	:	16.10.2024

**Location Details:**

Code	Route No.	GPS Location
SedQ1	Route 16	22°47'34.94"N 90°31'14.20"E
SedQ2	Route 21	22°42'2.67"N 90°33'14.18"E
SedQ3	Route 21	22°42'18.31"N 90°33'37.51"E

**Description of Analysis:**

Parameter	Unit	Riverbed sediment – Lot 3			Methodology	Dutch Environmental standard (mg/kg)
		SedQ1	SedQ2	SedQ3		
Lead	mg/kg	9.36	10.98	12.05	ICPMS	<b>85</b>
Cadmium	mg/kg	0.059	0.063	0.066	ICPMS	<b>0.8</b>
Chromium	mg/kg	11.74	13.66	14.70	ICPMS	<b>100</b>
Zinc	mg/kg	19.85	23.83	24.59	ICPMS	<b>140</b>
Arsenic	mg/kg	1.48	1.88	1.89	ICPMS	<b>29</b>

Note: ICPMS - Inductively coupled plasma mass spectrometry

**Office Address:**  
Flat #F1, House # Ta-134/A  
Baishakhi Sarani, Gulshan-Badda  
Link Road, Dhaka-1212, Bangladesh

Tel: +(880) 248810789-90  
+88(02) 9884077  
Mobile: +(880) 1911702074  
Email: info@elrcbd.com, elrcbd@gmail.com  
www.elrc.com.bd





Ref: ELRC/ Dredge Material / SDMM2024-05

<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>	:	16.10.2024

**Location Details:**

Sl. No.	Sampling Station	Station Code	Sampling Date	GPS Coordinates
1.	Route 21	DM-20a	16.10.2024	22°42'42.00"N 90°33'5.00"E
2.	Route 21	DM-20b	16.10.2024	22°42'42.50"N 90°33'5.05"E
3.	Route 21	DM-20c	16.10.2024	22°42'42.98"N 90°33'4.52"E
4.	Route 21	DM-21a	16.10.2024	22°42'35.00"N 90°33'49.00"E
5.	Route 21	DM-21b	16.10.2024	22°42'36.85"N 90°33'52.10"E
6.	Route 21	DM-21c	16.10.2024	22°42'36.54"N 90°33'47.47"E

**Description of Analysis:**

Parameter	Unit	Dredge Material Route 21						Methodology	Dutch Environmental standard (mg/kg)
		DM20a	DM20b	DM20c	DM21a	DM21b	DM21c		
Lead	mg/kg	12.55	13.42	12.87	14.04	12.99	13.20	ICPMS	85
Cadmium	mg/kg	0.064	0.067	0.065	0.068	0.069	0.067	ICPMS	0.8
Chromium	mg/kg	13.88	14.08	13.93	14.88	15.05	15.65	ICPMS	100
Zinc	mg/kg	24.06	26.10	25.39	25.72	26.24	25.79	ICPMS	140
Arsenic	mg/kg	1.94	1.98	1.90	1.92	1.95	1.98	ICPMS	29

Note: ICPMS - Inductively coupled plasma mass spectrometry

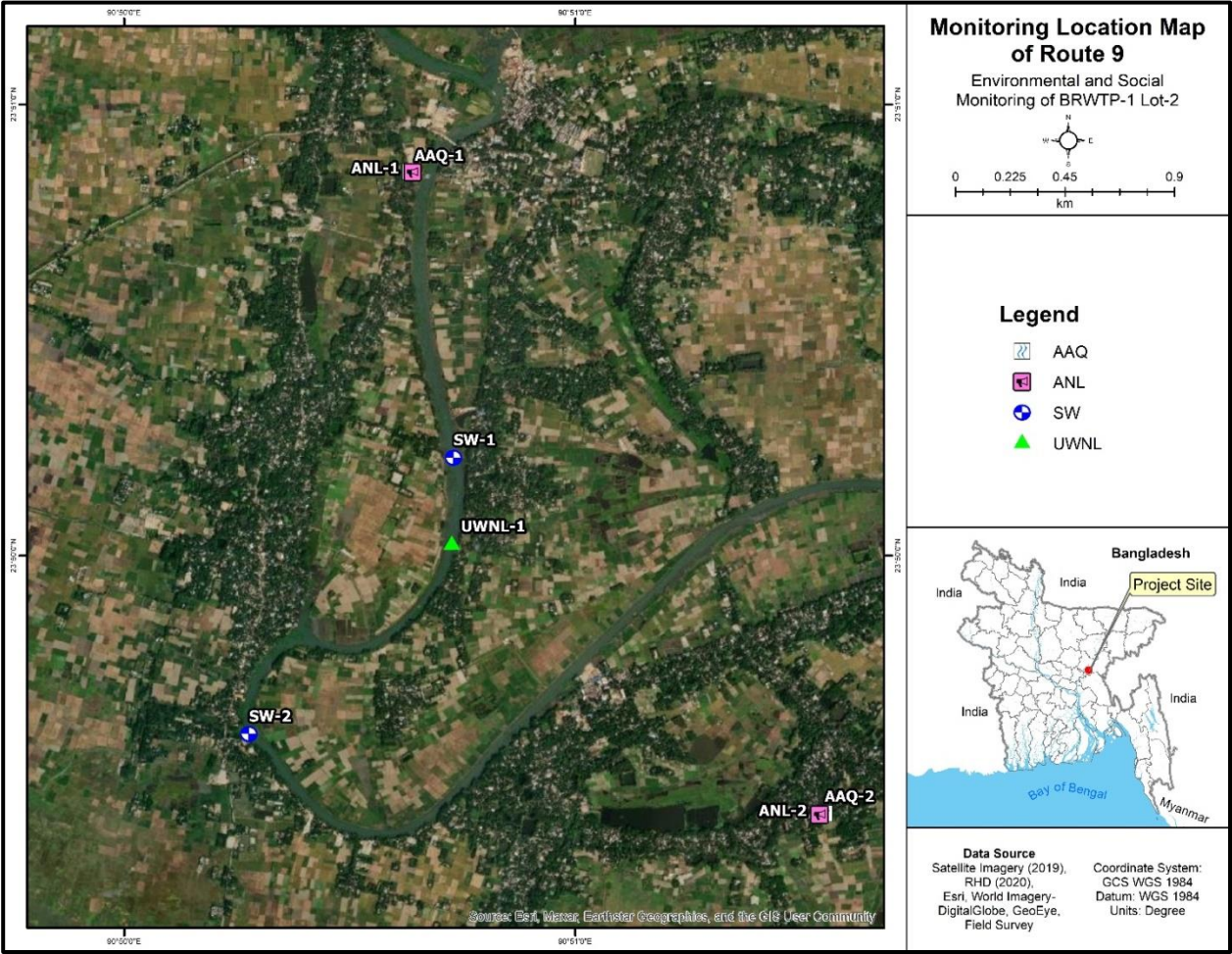
**Office Address:**  
Flat #F1, House # Ta-134/A  
Baishakhi Sarani, Gulshan-Badda  
Link Road, Dhaka-1212, Bangladesh

Tel: +(880) 248810789-90  
+88(02) 9884077  
Mobile: +(880) 1911702074  
Email: info@elrcbd.com, elrcbd@gmail.com  
www.elrc.com.bd



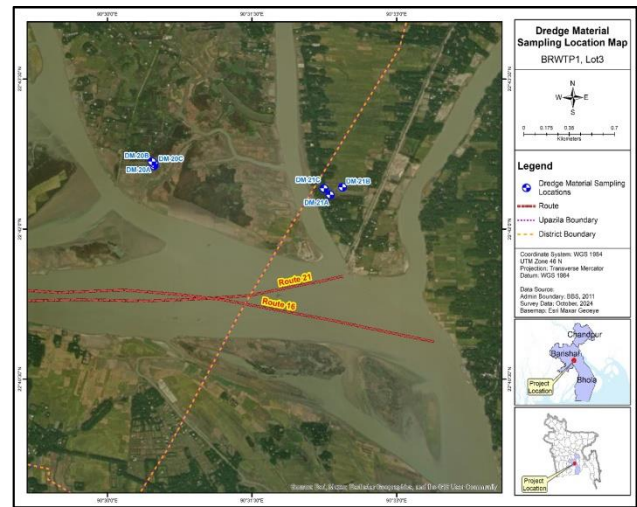
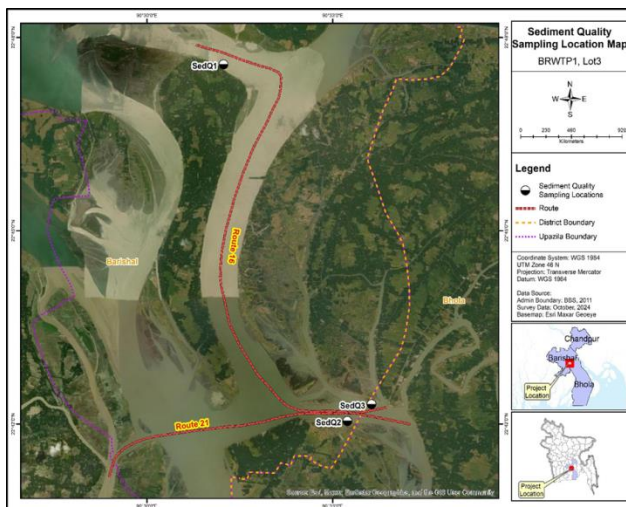
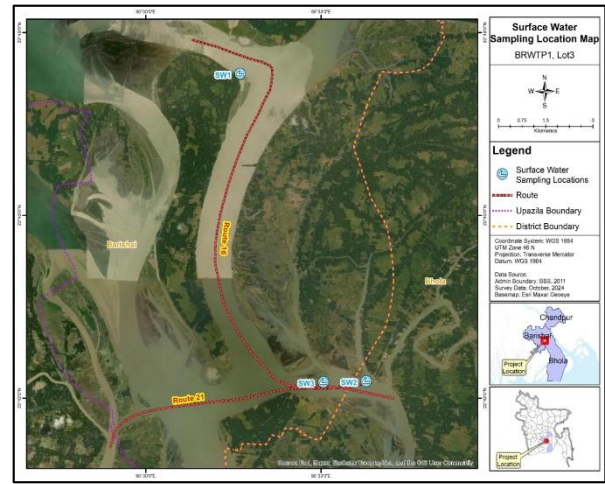
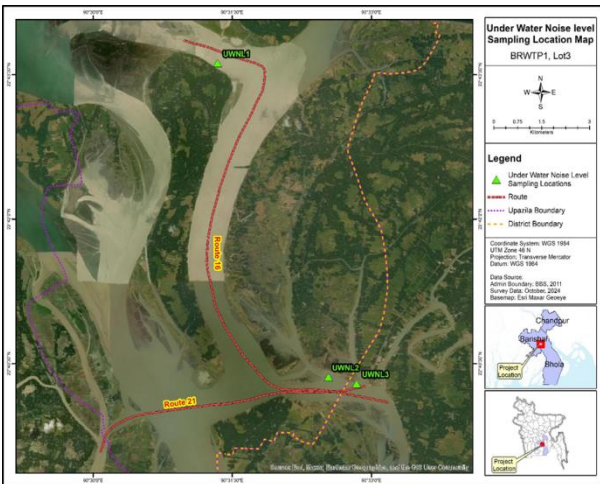
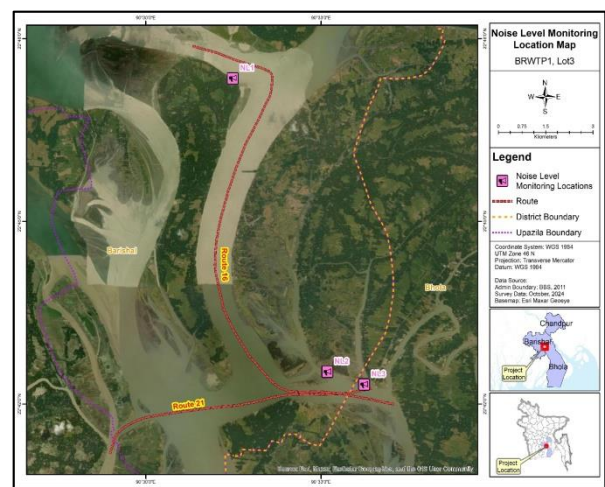
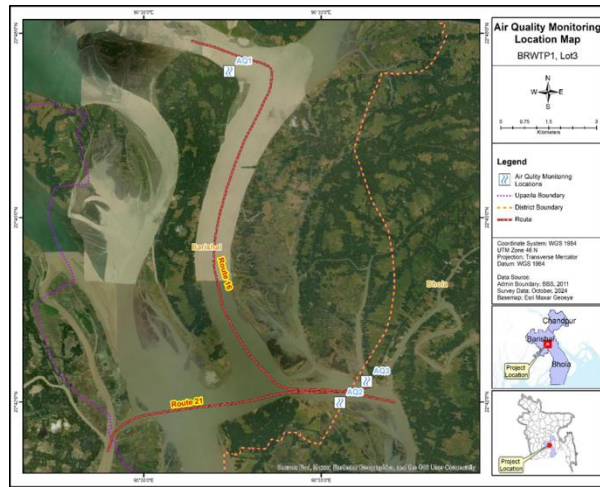
ANNEX V:  
Location of Environmental Sample Collection, October 2024

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





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



## ANNEX VI:

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

**Table 1: Environmental Quality Assessment for October 2024 for Lot-2**

SI No.	Item	Parameters	Baseline Data of Route 09	Route-9	SIA Remarks August 2024
			January 2023	October 2024	
1	Air Quality	SPM	140.34	163.84	*WAL
		PM10	58.34	80.26	WAL
		PM2.5	31.43	40.48	WAL
		SO2	15.29	28.19	WAL
		NO2	12.75	37.49	WAL
		CO	1.3	0.7	WAL
2	Noise Level	LEQ day	61.6	66.8	WAL
		Lmax	76	58.6	WAL
		Lmin	42.8	42.5	WAL
3	Underwater Noise Level	LAvg [dB (A)]	-	45.2	WAL
4	Surface Water Quality	Temperature	22.1	26.6	WAL
		EC	170	356	WAL
		pH	7.20	7.48	WAL
		TDS	160	175	WAL
		DO	4.5	6.1	WAL
		BOD5	10	4.9	WAL
		TSS	83	202	WAL
5	Riverbed Sediment	Lead (Pb)	9.79	-	WAL
		Cadmium (Cd)	0.054	-	WAL
		Chromium(Cr)	15.94	-	WAL
		Zinc (Zn)	26.32	-	WAL
		Arsenic (As)	1.96	-	WAL

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

**Table 2: Compliance Status for October 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-nine (29) species of fish and three (03) 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	-		
Sediment Dispersion	Not measured	-	-	-	-	N	Contractors were notified to measure sediment plume on the 1st of March 2023, followed by verbal instruction and reminder emails	No action taken or data provided by the contractors yet. Will be reminded again.
Riverbank Erosion	There were no issues regarding riverbank erosion or flooding.	Dredger stopped and relocated	Dredger stopped and relocated some protection measures taken	C	-	-	Stop dredging and relocate	Recommended reporting to the authorities and stop dredging

**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		
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 3: Environmental Quality Assessment for October 2024 for Lot 3**

Sl No.	Item	Parameters	Baseline Data of Route 16	Route 16	BaselineData of Route 21	Route 21	S1A Remarks October 2024
				October 2024		October 2024	
1	Ambient Air Polluants' Concentration in $\mu\text{g}/\text{m}^3$	SPM	170.65	61.99	165.12	68.22	WAL
		PM10	81.24	37.41	72.15	44.06	WAL
		PM2.5	42.85	15.77	47.28	17.60	WAL
		SO2	16.44	11.20	13.69	14.53	WAL
		NO2	21.40	15.02	22.18	17.33	WAL
		CO	1.1	0.6	0.6	0.9	WAL
2	Noise Level	LEQ day	53.5	58.75	62.35	70.33	WAL
		Lmax	75.7	75.56	82.53	88.50	Mixed Area.
		Lmin	32.8	38.06	39.76	39.05	WAL
3	Under Water Noise Level	LAvg [dB (A)]	-	59.2	-	72.3	WAL
4	Surface Water Quality	Temperature	22.0	27.2	24.8	28.9	WAL
		EC	280	296	290	304	WAL
		pH	7.91	7.55	7.77	7.85	WAL
		TDS	140	146	137	1.49	WAL
		DO	6.3	7.5	7.0	7.6	WAL
		BOD5	0.6	1.7	1.5	1.7	WAL
		TSS	29	85	86	89	WAL
5	Riverbed Sediment	Lead	12.01	9.36	10.17	12.05	WAL
		Cadmium	0.058	0.059	0.054	0.066	WAL
		Chromium	17.14	11.74	12.76	14.70	WAL
		Zinc	38.65	19.85	23.48	24.59	WAL
		Arsenic	2.01	1.48	1.57	1.89	WAL
6	Dredge Material	Lead	-	-	-	14.04	WAL
		Cadmium	-	-	-	0.068	WAL
		Chromium	-	-	-	14.88	WAL
		Zinc	-	-	-	25.72	WAL
		Arsenic	-	-	-	1.92	WAL

\*WAL=Within Approved Limit.

**Table 4: Compliance Status for October 2024 for Lot-3**

Visual Monitoring Compliance								
Potential Aspects	Description	EMP Measures (Proposed in the EIA)	Measures Already Implemented	ComplianceStatus			Remarks/ Recommendation	Recommended deadline for implementing the corrective measures
				C	P	N		
Aquatic Floraand Fauna including Plankton, Benthos, fish, dolphin	During the field visit of October 2024, there were no Fishing activities observed along Route 16 and Route 21 due to the government-imposed Mother Hilsa ban period.Fourteen (14) species of fish and two (02) crustacean species (prawn) were reported to be caught in the river. Commercially important species, Ilish ( <i>Tenuulosa</i>	Mitigation measures not required	No mitigation measure is required in the reporting period	-	P	-	Lo2 and Lot 3 ESHS staffs 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

**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		
	<i>ilisha</i> ) was found in this route.							
Sediment Dispersion	Not measured	x	No mitigation measure is required in the reporting period	-	-	N	Contractors were notified to measure the sediment plume on the 1st of March 2023. Reminders were given verbally and by email	No action taken or data provided by the contractors yet. Will be reminded again
Riverbank Erosion	No reports of riverbank erosion or flooding occurred during the reporting month.	Regular monitoring		-	P	-		Regular monitoring
Hydrological Conditions	Surveyed before dredging							
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
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 VII: Summary of Social Management and Resettlement Plan for Phase-II Capital 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**

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

#### **Summary of Social Management and Resettlement Plan for Phase-II Capital Dredging**

The Social Management Plan outlines the actions and measures to be taken before and during the implementation of the 2nd phase of the dredging project. The plan focuses on stakeholder engagement, environmental health and safety, and monitoring compliance to ensure the project's social and environmental sustainability.

#### ***1. Pre-Implementation Activities (Before Phase-2 Starts)***

##### **a. Stakeholder Engagement and Consultation:**

- Conduct consultation meetings with local stakeholders using Participatory Rural Appraisal (PRA) methods, such as:
  - Focus Group Discussions (FGD)
  - Key Informant Interviews (KII)
  - In-Depth Interviews (IDI)
- Objectives:
  - Educate the community about the project's benefits.
  - Discuss potential impacts and gather concerns.
  - Promote community engagement and foster cooperation.
  - Address key concerns raised by local residents.

##### **b. Identification and Selection of Disposal Area:**

- Determine a suitable disposal area in coordination with the government local administration.
- Establish a Good Faith Agreement (GFA) with stakeholders to ensure mutual understanding.
- Ensure Involvement of Local AC land office during the selection process of fellow land for the dike preparation.
- Complete DDMP for the disposal dike.

##### **c. Training on Environmental Health and Safety Management:**

- Participants: Environmental officers, safety officers, administrative staff, supervisors, and workers.
- Training Topics:
  - Environmental management and pollution prevention, focusing on water quality and sanitation.
  - Health and safety protocols, including emergency response for natural and human-made disasters.
  - Awareness on law enforcement, community relations, and prevention of environmental health risks.

##### **d. Establishment of Grievance Redress Mechanism (GRM):**

- Implement a GRM protocol that includes provisions for addressing Gender-Based Violence (GBV).
- Separate grievance protocols for community members and workers to ensure accessibility and confidentiality.
- e. Preparation and Submission of Related Plans:
  - Develop and submit the following plans:
    - Contractor Environmental Action Plan (CEAP)
    - Dredge Disposal Management Plan (DDMP)
    - Advance Monthly Work Plan
  - Obtain approval for CEAP from the Project Director.

## *2. Implementation Activities (During Phase-2 Dredging Work)*

- a. Monitoring and Follow-up of Submitted Plans:
  - Monitor compliance with the submitted plans:
    - Contractor Environmental Action Plan (CEAP)
    - Dredge Disposal Management Plan (DDMP)
    - Monthly Work Plan
  - Regular follow-up to ensure effective implementation of environmental and social mitigation measures.
- b. Oversight by Project Implementation Unit (PIU):
  - PIU will oversee the overall social performance, focusing on adherence to contract requirements and approved plans (CEAP and DDMP).
  - Conduct site visits and evaluations to assess the effectiveness of the mitigation measures.
- c. Contractor's Responsibility for Social Management:
  - The contractor will have a dedicated team responsible for supervising and monitoring the social management activities.
  - The team will ensure the implementation of the social mitigation measures, including community engagement, safety protocols, and environmental protection strategies.

## *Conclusion*

The S1A ESHS team planned to mitigate social risks, engage local stakeholders, and ensure the project's alignment with environmental health and safety standards. By following the outlined measures, the project will minimize adverse social and environmental impacts and enhance community benefits during the phase-II capital dredging activities.