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Ministry of Shipping



Bangladesh Inland Water Transport Authority (BIWTA)



MONTHLY PROGRESS REPORT

July 2023

Bangladesh Regional Waterway Transport Project 1
BRWTP-S1A

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



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Abbreviation

AILA	Association of International Lighthouse Authorities
ASAP	As Soon As Possible
ASCII	American Standard Code for Information Interchange
BDT	Bangladeshi Taka
BELA	Bangladesh Environment Lawyer Association
BIWTA	Bangladesh Inland Water Transportation Authority
BIWTC	Bangladesh Inland Water Transportation Corporation
BIWTMAS	Bangladesh Inland Water Transport Master Plan
BM	Bench Mark
BRAC	Bangladesh Rural Advancement Committee
BRWTP	Bangladesh Regional Waterway Transport Project I
BWDB	Bangladesh Water Development Board
CD	Chart Datum
CEAP	Conservation Effects Assessment Project
CSD	Cutter Section Dredger
DCC	Dhaka Chittagong Corridor
DPD	Deputy Project Director
EIA	Environmental Impact Assessment
EMP	Environment Management Plan
ESHS	Environment, Social, Health and Safety
ESMP	Environment and Social Management Plan
GBM	Ganges, Brahmaputra (Jamuna) And Meghna
GBV	Gender-Based Violence
GIS	Geographic Information System
GPS	Global Positioning System
GRC	Governance, Risk, And Compliance
GRM	Grievance Redress Mechanism
HSE	Health and Safety Expert
IALA	International Association of Marine Aids and Lighthouse Authorities
IBC	Idle Berthing Centre
ID	Identity
IHO	International Hydrographic Organisation
IWT	Inland Water Transport
JPZ	Jurutera Perunding Zaaba
JV	Joint Venture
LAD	Least Available Depth
LLW	Lowest Low Water
MCD	Meters Above Chart Datum
MOEF	Ministry of Environment, Forest and Climate Change.
MSL	Mean Sea Level
NID	National Identity
OPBC	Output and Performance-Based Contract

PD	Project Director
PIU	Project Implementation Unit
RAP	Resettlement Action Plan
RCC	Reinforced Cement Concrete
RTK-GPS	Real-Time Kinematic- Global Positioning System
SE	Senior Engineer
SOB	Survey of Bangladesh
TBM	Temporary Bench Mark
US	United States
UTM	Universal Transverse Mercator
VSS	Vessel Storm Shelter
WB	World Bank
WGS	World Geodetic System

EXECUTIVE SUMMARY

The Bangladesh Regional Waterway Transport Project 1 (Chittagong-Dhaka-Ashuganj Corridor) is the ‘Project’ of the Government of Bangladesh (GoB) to develop Inland Water Transport (IWT) sector and related infrastructure between Dhaka-Chittagong and Dhaka-Ashuganj River corridors and linked corridors. The Project has three major components. Component 1 includes dredging and maintenance of the river corridors and ferry routes within the Project area through a performance-based contract. A comprehensive Environmental and Social Impact Assessment (ESIA) has been prepared for Component1; JPZ-DEMAs-JCL, the consulting firm herein referred to as S1A has started the supervision and monitoring work under this component in December 2022 financed by the World Bank (WB) and implemented by Bangladesh Inland Water Transport Authority (BIWTA), under the Ministry of Shipping (MoS).

The works package on dredging shall operate for 66 (Sixty-six) months on the river routes 3, 4, 5, 6, 7, 8, 9, 10 and 11 by Contractor GULF-COBLA KARNAFULY JV herein referred to as Lot-2 and 12, 13, 13a, 15, 16, 17 and 21 by Contractor DHARTI-BANGLA JV herein referred to as Lot-3; under Bangladesh Regional Waterway Transport Project -1(BRWTP-1), Contract Number BRWTPW1A-02 and 03 respectively.

In July 2023, LOT-2 contractor dredged 216 m in linear length in Route No. 09 (Class III, length 60km, Titas River). The progress is very poor. The main challenge is failing to provide continuous operation of dredger due to frequent machinery breakdown.

During the month of July 2023, the LOT-3 contractor didn’t carry out any dredging work as during monsoon the LADs exist in all the routes under Lot-3. They did the maintenance surveys and environmental quality control activities on Route 16 and Route 21 (Mehendiganj to Bheduria, Tentulia River).

According to the contract, the S1A team provided their services to the contractors to commence works, i.e., mobilization, public consultation, environmental data collection, dredging alignment, dredging section design, pre-dredged survey, dredging quality control and dredged material management and the team visited the sites to monitor the dredging operations.

CHAPTER 01: INTRODUCTION

1.1 Overview:

During the month of July, as the monsoon started, it would be easier for the Lot-02 contractor to work in Route 9 as the better water level in the narrow river helps the dredgers to work efficiently, but the progress was not as expected for their dredger's frequent breakdown.

For Lot-03 contractors, the LADs seem to be alright in the river routes, as a result the Lot-03 contractor have conducted the monitoring activities in the Route 16 and 21.

1.2 ES Staffing status

1.2.1: Number of ES Consultants and their recruitment status in the PIU, DSC, other packages, and contractors are listed below:

Table 1: Contact details of key ES personnel

Entity	Consultant or Staff Number	Consultant or Staff Designation	Contact Details
PIU, BRWTP-1	Md. Mizanur Rahman	Environmental Expert	01713129275
	Md. Nazrul Islam Sarker	Social Expert	01719542270
	Md. Khandaker Mahbub	GRM Expert	01797555801
S1A Consultants	Mohammad Ali Shams	Project Coordinator	01675922066
	Md. Golam Rabbani	Dredging Expert	01711593507
	Dr. S.M.A Rashid	Environmental Expert	01717318906
	Dr. Monzur Rahman	Resettlement Expert	01785997883
GULF COBLA – KARNAFULY JV (Lot 2)	Dr. Mrinal Kanti Saha	EHS Manager	01715091090
	Amit Kumar Saha	Ecologist/ Environmental Officer	01303429207
	Aminur Rahman	Social/ Communication Manager	01723042360
DHARTI- BANGA JV (Lot3)	Captain A. Razzak Bhuiyan	Environmental, health and safety manager	01730029850
	Md. Aftabuzzaman	Social communication officer	017190319380
	Prokhor Aabeer	Environmental officer	01768236508
S12/3 (Third Party Monitoring and Evaluation Consultant for Environmental Safeguards)	Dr. Rezaul Karim	Team Leader	01711565728
	Shanjana Haider	Consultant	01717333671
S12/2 {Third party MandE consultant for social safeguards (including midterm and ex-post evaluation of RAP implementation)}	Mr. Julhas Sharkar	Authorized Representative	01707570399
	Dewan Mohammad Ali Emran	Team Leader	01712691131

1.2.2: Organogram of S1A

As per the basic organogram of S1A, all the key staff have not yet been appointed. However, all kinds of efforts to get everyone on board is moving forward.

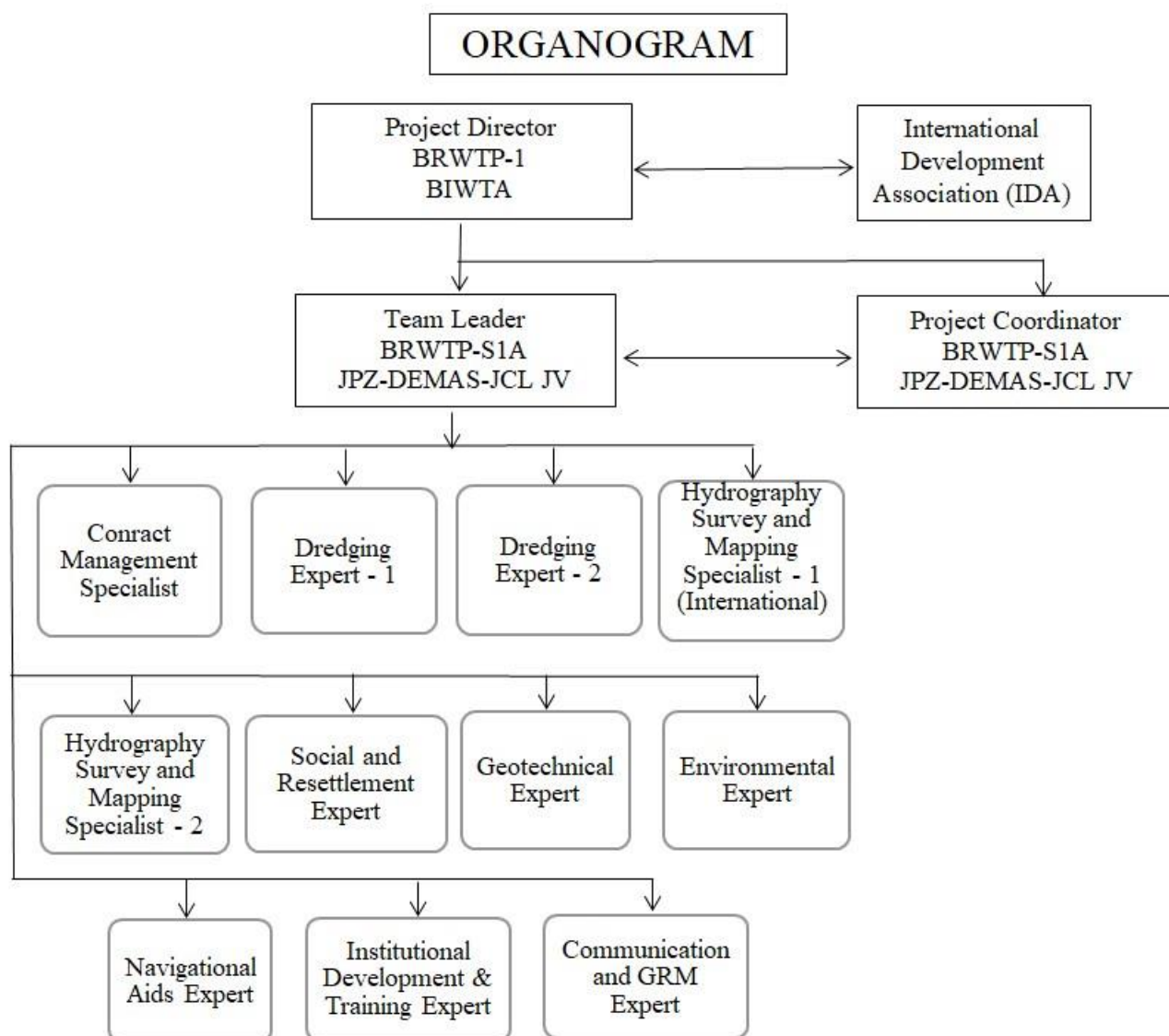


Figure 1: Organogram of S1A Key Staff

CHAPTER02: PROJECT DESCRIPTION IN A BRIEF

2.1 Background:

Bangladesh lies predominately within the Bengal basin, the world's largest delta formed by the Ganges, Brahmaputra (Jamuna), and Meghna (GBM) river system and its tributaries and distributaries. Bangladesh is a riverine country with some 700 rivers, streams, and canals with a total length of about 24,000 km. Approximately 6,000 km are navigable during the monsoon (wet) period for different-sized vessels, shrinking to about 3,900 km in the dry periods. While the larger rivers are up to 50 meters (m) in depth in places and the Lower Meghna (the main trafficked route on the Dhaka Chittagong Corridor or DCC) is generally 10-25m deep. Navigation is hindered by very shallow depths on bars, especially in the delta area, at the confluences of the major rivers and their tributaries, river bends, and estuaries. Navigation is further complicated by the braided nature of the main rivers. In total, the GBM System annually carries up to one billion tons of sediment and drains into the Bay of Bengal principally through the Shahbazpur and Hatiya estuaries in the Mouths of the Ganges - feeding the Bengal Fan, the largest depositional system in the world.

Inland Water Transport (IWT) carries over 50 percent of all Bangladesh's cargo traffic and one-quarter of all passenger traffic. There are over 22,300 registered vessels engaged in this trade, mainly transporting dry and liquid cargo in bulk or break-bulk form. Investment by the vibrant shipping and inland water transport industry in Bangladesh totals approximately US\$ 4 billion. The Government has identified 65 main river navigation routes that are essential to passenger and freight transport within Bangladesh. The routes are categorized as Classes I through IV depending on their advertised depths as given below (Table: 2).

Table 2: Main River navigation routes that are Essential to Passenger and freight transport within Bangladesh

Class	Max Vessel Draft/Least Advertised Depth	Length	%
I	3.65m/3.96m	683 km	11
II	2.13 m/2.43 m	1000 km	17
III	1.52 m/ 1.82 m	1886 km	32
IV	<1.52 m	2400 km	40

The development and control of Inland Water Transport is the responsibility of the Bangladesh Inland Water Transport Authority (BIWTA), under the Ministry of Shipping (MoS). Among its functions for passenger traffic, BIWTA is responsible to:

- Develop, maintain, and operate inland river routes to maintain the advertised Least Available Depth (LAD) and width by necessary surveys and dredging works including maintaining the necessary navigation measures to operate the vessels effectively;
- Develop, maintain, and operate inland river ports, landing ghats, and terminal facilities in such ports or ghats; and,
- Develop the most economical facilities for passenger traffic to ensure comfort, safety, and speed on mechanized craft.

In order to improve key multi-modal transport corridors and networks that would address current transport bottlenecks in Bangladesh, the World Bank is financing the Bangladesh Regional Waterway Transport Project I (BRWTP-1). It is centered on the main Dhaka-Chattogram IWT route, with branches to Ashuganj, Ghorashal and Barishal. Major components of BRWTP-1 include the following:

- Capital and maintenance dredging, installation, and operation of aids to navigation and construction and maintenance of Vessel Storm Shelters (VSS) / Idle Berthing Centers (IBC);
- Development of Cargo Terminals;
- Development of Passenger Terminals; and,
- Development of Landing Ghats.

The above-mentioned works are to be undertaken under an output and performance-based method of contracting. Output and Performance-Based Contracting for Inland Water Navigation (OPBC-IWN) is a results-oriented contracting method that focuses on the outputs, quality, or outcomes and ties at least a portion of a contractor's payment, contract extensions, or contract renewals to the achievement of specific, measurable performance standards and requirements. Supervision of OPBC-IWN contracts is to be done with due care and diligence following the highest professional practices and International Hydrographic Organization (IHO) S-44 5th edition standards and surveys.

2.2 Objectives:

The main objective of this consultancy service is to monitor, supervise, and administer the contracts for performance-based dredging works, installation and operation of aids to navigation along the navigational routes under the BRWTP-WIA package (Lot-2 and Lot 3).

2.3 Place of Performance

The works package on dredging shall operate for 66 (Sixty-six) months on the river routes presented in the box below.

LOT 2: Route 3and4, Route 5, Route 6, Route 7and8, Route 9, Route 10, and Route 11

Route 3and4:	Shitalakshya (Munshiganj to Ghorashal)
Route 5:	Meghna (Munshiganj to Ashuganj)
Route 6:	Meghna (Loop joining Route 5)
Route 7and8:	Meghna (Narshingdi Northern and Southern Approaches)
Route 9:	Meghna (Bancharampur/Homna Loop)
Route 10:	Meghna (Homna to Daudkandi)
Route 11:	Gumti (Meghna to Daudkandi)

LOT 3: Route 12, Route 13, Route 13a, Route 15and16, Route 17, Route 21

Route 12:	Meghna (Chandpur to R140 Bridge)
Route 13:	Meghna Arial Khan Route (Approach from Alubazar North of Batamara up to Hat Hazar)
Route 13a:	Meghna (Looping Route inside Char Hijla)
Route 15 and16:	Meghna (Mehendiganj to Bheduria)
Route 17:	Meghna Tentulia (Bheduria to Route 14)
Route 21:	Tentulia (Bheduria to Laharhat)

2.4 Outputs:

- Baseline hydrological, morphological, and environmental conditions of the project rivers routes
- Prepared hydrological data and hydrographic charts for the project rivers routes
- Best-suited dredging alignments for dredging different navigational routes;
- Dredged material disposal plan
- Development and maintenance of dredging volumes for different river stretches of project rivers routes
- Benefit of dredging maintaining LAD on physical and socio-economic conditions
- Monitoring results on dredging, water availability, navigability, irrigation, erosion, and flood improvement
- Monitoring results on agriculture, fisheries, livelihood, and environmental conditions
- Reports: All work performed by the consultancy team of engineering services shall be documented in written reports submitted to the PIU
- Preliminary charts for delineating dredging alignments and computation of dredging volume

- Different reports that shall highlight the output of survey works through a preliminary estimate of dredging requirement, Volume of dredging needed as per Joint Pre-work Survey and design, Progress of dredging work, the actual volume of dredging performed as per Joint post-work Survey
- Report mentioning the status of the dredged channel after the completion of dredging work. All work performed by the survey team services shall be documented in written reports submitted to the PIU.

In light of the basic information of this project, the S1A consultant arranged the monitoring and supervision program. From the beginning, the supervision was divided into three major parts- dredging works, environmental monitoring, monitoring on social aspects and ESHS. This month's (July 2023) administrative and recruitment process as well as the documentation process has been updated a lot.

CHAPTER 03: ENVIRONMENTAL AND SOCIAL ISSUES

Since the commencement of the project, the contractors of Lot 2 and Lot 3 have been submitting their monthly reports as per their contract. The S1A team prepared this chapter based on their own observation and supervision considering the information submitted by the contractors and the projected output of the project.

This chapter covers hydrological survey data and hydrographic charts for the project river routes. Also, the most suitable dredging alignment for dredging selected navigation routes and dredged material disposal plan.

Development and maintenance of dredging volume of various rivers of the project river routes and benefits of dredging while maintaining LAD on physical and socio-economic conditions are included in this chapter.

Monitoring results of dredging, water availability, navigability, irrigation, erosion, and flood improvements; and

Monitoring results on agriculture, fisheries, and ecological aspects, livelihoods of the riverside people, environmental quality measurement, and other environmental conditions, etc., are illustrated in this chapter. The chapter is mainly divided into three main parts:

3.1 Environmental Assessment/ Environmental Issues; 3.2 Social and Resettlement Issues; and 3.3 Development and Maintenance of Dredging Works.

3.1 Environmental Assessment/ Environmental Issues

3.1.1: Introduction

Monitoring the environmental impact is one of the main tasks of this project. However, social and other issues are closely related to the environment. The issues specifically related to the environment that were observed at the commencement period of the project are included in this part. The S1A team hopes that gradually it will be possible to do more specific and clear documentation. During this month environmental supervision is mostly done on the site visit and by collecting data from the reviewed reports provided by the contractors.

The main objective of this section is to understand the current environmental condition of the project area, and how the project needs to be implemented considering these conditions. This part also provides a standard guideline and approach to preserving key environmental aspects by preventing and

controlling environmental pollution and the management of challenges and difficulties, resulting from the Improvement/dredging work of Inland Waterway routes under Bangladesh Regional Water Transport Project-1 (Lot 2 and Lot 3), in accordance with the conditions of contract and clients' requirements. The main objectives of this part are as follows:

- To present the records of monitoring and its mitigation measures, taken thereafter, of the environmental parameters, including noise, air, riverbed sediment, and water quality, for identifying the deviation of environmental quality if any due to construction-related activities.
- To evaluate and confirm whether the Contractor has met the environmental compliance requirement, as was committed in the CEAP to protect the surrounding environment of the construction site.

In this part of the report, S1A has illustrated the monthly quality measurement of different environmental parameters which may be affected by the dredging work according to the environmental management plan (EMP) of the project.

The monitoring includes air, surface water, groundwater quality, dredge material, and noise level testing according to standard procedures.

3.1.2 Summary of environmental protection and pollution control/mitigation measures, as recommended in the site-specific EMP and SMP

Table 3: Summary of the Major Findings in the Reporting Month (July 2023) of Lot 2

Issues	Present Status	Mitigation Measures	S1A Comments
Aquatic Fauna (Fish)	<ul style="list-style-type: none"> • During the field visit of July 2023, fishing activities were observed in Nilukhy village (site 3) Dredging Site (Route 9) • Local people informed that a very small number of fishes are found in Ima Nilukhy village (Dredger no. 3) Dredging Site which was approximately 2 km away from the dredging site. Common fishes and crustaceans include Bele, Punti, Tengra, Koi, Freshwater Prawn, etc. Tire-track Spinyeel (<i>Mastacembalus armatus</i>) has been recorded in this month which is an endangered fish species according to the IUCN Red List status of Bangladesh, 2015. • There is no visible fish mortality within and around the dredging site location. 	No mitigation measure is required as the observed fish species were found approximately 2 km away from the dredging site.	Insert photographs, data sheets, etc., as evidence – in Appendix
Aquatic Fauna (Dolphin, Turtle)	<ul style="list-style-type: none"> • During the monthly visit of July 2023, the study team did not observe any Ganges River Dolphin. However, consultation with local people confirmed that Ganges River Dolphins are not found in River Route 9 and Route 7. 	No mitigation measure is required	Observation sheet for dolphins as appendix. Every wetland is a turtle habitat.

Issues	Present Status	Mitigation Measures	S1A Comments
	<ul style="list-style-type: none"> No direct observation of freshwater turtles in the dredging site, dike area and adjacent local area. In addition, the study team did not observe any visible sign of turtle species. 		Presence or absence of turtles depends on various factors.
Phytoplankton, Zooplankton, and Benthos	<ul style="list-style-type: none"> By analyzing samples from three predetermined sample collecting points along Route 9, a total of five (05) species of phytoplankton were recorded. A total of three (03) species of zooplankton were identified by sample analysis from three predefined sample collection locations. <i>Daphnia sp.</i> were abundant in PZ1 and <i>Brachionus sp.</i> were abundant in PZ3. Six species (06) of benthos were identified from three sampling locations. These six species belonged to the groups Gastropoda, Bivalvia, Clitellata, and Polychaeta. 	No mitigation measure is required	Duration of sampling time to be mentioned. Mention the ecological significances of the benthos found.
Air quality	In this month, monitoring of four sample points Air quality has been conducted. All the testing parameters were found within the standard limit. Detail has been discussed.	No mitigation measure is required.	Duration of sampling time to be mentioned
Noise level	Monthly monitoring of noise level has been conducted in this reporting month. Results were found within the standard limit. Detail has been discussed.	No mitigation measure is required.	Some erosion of the river bank was observed during S1A Team visit due to dyke failure
Riverbank Erosion	During the reporting month, no issues were observed regarding riverbank erosion or flooding.	No mitigation measure is required.	Setback distance along the river banks and dykes to be maintained and monitored
Drainage congestion	The dredging work in July 2023 is being carried out in Salimganj Ghat (Route-9) area. During site observation, the outline for water passing from the dredge material was found to be functional.	No mitigation measure is required.	To be checked at regular intervals
Quarries, borrow areas, spoil areas, asphalt plants, batch plants	No such activities and issues were observed during this reporting month.	No mitigation measure is required.	No burrows, asphalt plants, in the area
River transport	River traffic related sign boards have been observed in this reporting month to ensure a safe river traffic movement.	No mitigation measure is required.	Details of the required navigational aids to be investigated and identified
Blasting	No such activities have been conducted during the reporting month.	No mitigation measure is required.	No blasting in our areas
Spills from chemical storage	No spills either at land or river section were noticed during the reporting period.	No mitigation measure is required.	No spills from chemical storage
Sediment leakages	During this reporting month no leakage was found in	No mitigation	No leakage

Issues	Present Status	Mitigation Measures	S1A Comments
from pipes	the dredge pipe.	measure is required.	recorded
Waste Management	During the reporting month, waste bins have been placed on the houseboat as well as in dredger. Different color-coded dustbins with specific waste category levels on the waste bins have been installed in the dredging site. No wastewater and solid waste are discharged into the rivers.	Oil cleaning cloths need to be disposed of in hazardous waste bins.	Complied
Water and Swamp Protection	Equipment is inspected and maintained regularly in order to prevent leaks. To check the water quality at the dredging points, four water samples have been collected and tested in the laboratory. Adequate toilet facilities have been provided in houseboats and dredgers as well.	No mitigation measure is required.	Complied
Drinking water and sanitation	Safe drinking water is being supplied for the site workers also toilets were found clean during this reporting month. The picture is attached in the Annex.	Toilet checklists need to be maintained on a regular basis.	Insert photographs, data sheets, etc., as evidence – in Appendix

Table 4: Summary of the Major Findings in the Reporting Month (July 2023) of Lot 3

Issues	Present Status	Mitigation Measures	S1A Comments
Aquatic Fauna (Fish)	<ul style="list-style-type: none"> During the field visit of July 2023, fishing activity with small mechanized and non-mechanized boats were observed in Route 16 and 21. In this reporting month fishing activity is higher compared to previous month in Route 21 than Route 16. Ten (10) species of fish were observed to catch in the River Route 16 and River Route 2. In addition, three (3) species of crustacean species (prawn) were also observed to catch in the river. There is no visible fish mortality within and around the dredging site location. 	No mitigation measure is required	Insert photographs, data sheets, etc., as evidence – in Appendix
Aquatic Fauna (Dolphin, Turtle)	<ul style="list-style-type: none"> During the monthly visit of July 2023, the study team did not observe any Ganges River Dolphin near the previous dredging site, dredger placement area and adjacent areas (500m upstream and downstream area) Dolphins were not frequently observed near Patarhat launch terminal and Bheduria Launch terminal area due to the frequent movement of Launch and speed boat in the area. 	Regular monitoring was conducted during the dredging operation.	Dolphin observation data sheet to be attached in appendix. Presence or absence of dolphins/turtles depends on various factors.

	<ul style="list-style-type: none"> No direct observation of freshwater turtle species in the dredging site, dike area and adjacent local area. 		
Air quality (Dust and others)	<p>During the site visit, no significant air pollution issues were observed. The equipment is regularly inspected and maintained to ensure it is in good working order, preventing air pollution. The checklist for equipment maintenance records can be found in Appendix D. Each of our EHS representatives is responsible for monitoring air quality concerns on a regular basis.</p> <p>In this month, monitoring at four sample points for Air quality has been conducted. All the testing parameters were found within the standard limit. Detail has been discussed in 4.3</p>	No mitigation measure is required.	Duration of sampling time to be mentioned
Noise level	Monthly monitoring of noise level has been conducted in this reporting month. Results were found within the standard limit.	No mitigation measure is required.	Duration of sampling time to be mentioned
Erosion control	In the reporting month, no riverbank erosion or flooding were reported. As no natural occurrences occurred in the project area, the operation remained stable and safe.	No mitigation measure is required.	
Drainage congestion	During the rainy season in July 2023, no dredging is taking place in lot 3.	No mitigation measure is required.	Complied
Quarries, borrow areas, spoil areas, asphalt plants, batch plants	In the reporting month, there were no reports of problems or concerns related to quarries, borrow areas, spoiled areas. All operations in these areas ran smoothly and complied with applicable regulations and standards without any significant issues.	No mitigation measure is required.	No comments
River transport	River traffic related sign boards have been observed in this reporting month to ensure a safe river traffic movement.	Navigational aids requirement to be assessed.	These navigational aids, need to be described in detail
Blasting	There are no explosive activities associated with blasting operations such as demolition, construction, or excavation that involve explosives. The reporting month did not contain any blasting activities.	No mitigation measure is required.	No blasting in our areas
Spills clean ups	Land and river sections had not observed or reported any spills during the reporting period. No accidental releases or leaks of substances that could negatively impact the environment or ecosystem have been reported.	No mitigation measure is required.	No spills from chemical storage
Sediment leakages from pipes	During this reporting month no leakage was found in the dredge pipe.	No mitigation measure is required.	No leakage recorded
Waste Management	Waste bins were positioned on the vessels and at the dredge material placement site during the reporting month. It is helpful to have color-coded wastebins and labels to facilitate clear identification at the dredging site, however. There is no discharge of wastewater or solid waste into the rivers.	Oil cleaning cloths need to be disposed of in hazardous waste bins.	Complied
Water and Swamp Protection	To ensure environmental protection and safety, regular inspections and maintenance of equipment are conducted to prevent any potential leaks. Additionally, water quality assessments have been performed by collecting and testing four water samples from the	No mitigation measure is required.	Complied

	<p>dredging points in a laboratory setting. In the event of oil spills or leaks, emergency response equipment, including floating booms, is operational and easily accessible. Furthermore, adequate toilet facilities have been provided in both houseboats and dredgers, prioritizing the well-being and sanitation needs of the staff and workers.</p> <p>Wastewater runoff: Wastewater runoff in dredging placement sites can pollute water, causing sedimentation. No such impacts were observed during the reporting month.</p> <p>Management measures include sediment control measures, erosion prevention methods, adherence to best management practices, water quality monitoring, proper waste disposal were implemented at site to prevent the impacts from wastewater runoff.</p>		
Drinking water and sanitation	During this reporting month, safe drinking water has been provided to the site workers, and the toilets were found to be clean. Please refer to the attached Annex for the corresponding picture.	Sanitary Latrine checklists need to be maintained on a regular basis.	Complied
Tree plantation	Plantation activities have not yet been initiated for the reporting month.	N/A	Insert photographs, data sheets, etc., as evidence – in Appendix

3.1.3 Environmental Quality Measurement:

The main objective of this monitoring program is to assess the basic environmental variables in and around the dredging sites considering the possible exposures. Specific environmental and biodiversity conservation clauses are measured for understanding the probable impacts. The monitoring includes air, surface water, groundwater quality, dredge material, waste management, and noise level testing according to standard procedures.

The S1A team documented the quality of current environmental parameters according to the quality measurement results provided by the contractors of Lot 2 and Lot 3. Communicating with the field staff and from the site visits the team illustrated the environmental part of this reporting period.

3.1.3.1 LOT 2: GULF COBLA KARNAFULY JV and LOT 3: DHARTI-BANGA JV

Table 5: Recommendation for Updating Compliance Status of Lot-2 (July 2023)

Potential Aspects	Description	EMP Measures as Proposed in the EIA	Measures Already Implemented	Compliance Status			Remarks/ Recommendation	Recommended deadline for implementing the corrective measures
				C	P	N		
Dredging of IWT Corridor								
Analytical Monitoring Compliance								
Air Quality	SPM, PM10, PM2.5, CO, NO2, SO2 data provided in the report	Mitigation measures not required, results within ECR 2023 approved level	Not applicable	C	-	-	Within ECR2023 approved levels	Not applicable
Noise & Vibration	Only day data provided in the report	Mitigation measures taken, results within ECR 2023 approved level	Engine rooms closed, and covered	-	P	-	Within ECR2023 approved levels	Only day data collected; recommended night data to be collected from September. Also, when dredger is operating
Under Water Noise Level	Data provided in the report	Mitigation measures not required. No approved limits under ECR 2023	Not applicable	-	P	-	No approved limits mentioned in ECR 2023. Two hydrophones to be used at dredging sites (at present only one hydrophone used)	Two (02) hydrophones to be used as per contract during dredging operation from September.
Surface Water Quality	Temp, pH, Turbidity, EC, DO, TDS, Ca, Mg, K, Cl, SO4, PO4 data provided in the report	Mitigation measures not required, results within ECR 2023 approved level	Not applicable	C	-	-	Within ECR2023 approved levels; sampling from both upstream and downstream of the dredging sites recommended	Suspended sediment concentration to be measured near dredger from September 2023
Drinking Water Quality	x	x	x	x	x	x	x	x
Soil Pollution	x	x	x	x	x	x	x	x
Visual Monitoring Compliance								
Aquatic Flora and Fauna including Plankton, Benthos, fish, dolphin	Data provided	Mitigation measures not required	No mitigation measure is required	-	P	-	Common fishes and crustaceans have been recorded; one endangered fish species recorded according to the IUCN Red List-Bangladesh, 2015.	Advised regular monitoring of the habitat
Sediment Dispersion	Not measured	-	-	-	-	N	Contractors were notified to measure sediment plume on 1 st March 2023	No action taken or data provided by the contractors yet. Will be reminded again
River Bank Erosion	Usually mentioned in the report if any erosion is observed	Dredger stopped and relocated	Dredger stopped and relocated; some protection measures taken	C	-	-	Stop dredging an relocate	Recommended to report to the authority and stop dredging
Hydrological Conditions	Surveyed prior to dredging	x	x	x	x	x	x	x

Potential Aspects	Description	EMP Measures as Proposed in	Measures Already	Compliance Status			Remarks/ Recommendation	Recommended deadline for
Drainage Congestion	No complains received on congestion			-	P	-	No reports of any drainage congestion	-
River Traffic/Transport	No complains		No mitigation measure is required		P	-	-	River traffic and navigation-related sign boards have been observed
Accidental Spillage	No reports yet		-		P	-	No reports of any spillage	Log book to be maintained, in case of any incident, report to authority
Sediment leakages from pipes and sediment disposal	No reports on ant leakage	Maintain pipes	Pipes regularly checked		P	-	No reports of leakage	Stop dredging, fix the problem prior to resumption; report to authority
Dredging of IWT Corridor								
Visual Monitoring Compliance								
Drinking water & sanitation			-	C	-	-	-	-
Safety of workers			-	-	P	-	-	-
Waste management			-	-	P	-	Waste bins for hazardous materials (Lot2)	Colored collection bins for organic and non-organic solid wastes
Cultural and archeological Sites			x	x	x	x	-	-
Reinstatement of Work Sites			x	x	x	-	-	-
Emissions from vehicles and vessels			-	-	-	-	-	-
River bed sediments	Samples collected, analyzed, data in the report		-	-	P	-	-	-
Waste water			-	-	P	-	-	-
Grievances Redress Mechanism (GRM)			-	-	P	-	-	-
Incident Management System			x	x		-	x	x

Air Quality

The summary findings of the ambient air quality results are presented in the following tables;

Table 6: Summary findings of in-house air quality monitoring at Lot2 sites.

Monitoring Code	SPM	PM10	PM2.5	SO2	NO2	CO
	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(mg/m3)
AQ1	153.33	70.28	52.69	29.20	17.59	0.8
AQ2	143.94	66.84	49.44	32.48	21.83	0.9
AQ3	155.94	68.77	55.94	30.62	23.84	0.5
AQ4	149.55	62.49	52.93	31.59	22.94	0.6
Duration (Hours)	8	24	24	24	24	8
Weather	Sunny					
Bangladesh Standard1	-	150	65	80	80	5

Note: Air Pollution (Control) Rules, 2022.

Legend: PM₁₀ -Particulate Matter of a diameter of 10 microns or less. PM_{2.5} -Particulate Matter of a diameter of 2.5 microns or less, SO₂ –Sulphur Dioxide; NO₂ –Nitrogen-Dioxide; CO –Carbon Monoxide

Table 7: Summary findings of in-house air quality monitoring at Lot3 sites

Location	Sampling Date	Ambient Air Pollutants' Concentration in µg/m ³					CO mg/m3
		SPM	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	
AQ1 - Route 21	24/07/2023	65.44	33.73	18.25	10.88	12.89	0.8
AQ 2- Route 16	24/07/2023	54.43	25.37	19.16	13.07	15.42	0.5
AQ-3 - Route 16	24/07/2023	57.52	28.76	20.45	8.79	12.63	0.6
AQ-4 - Route 17	25/07/2023	63.86	33.24	22.62	10.49	15.43	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: PM₁₀ -Particulate Matter of a diameter of 10 microns or less. PM_{2.5} -Particulate Matter of a diameter of 2.5 microns or less, SO₂ –Sulphur Dioxide; NO₂ –Nitrogen-Dioxide; CO –Carbon Monoxide

Noise Level

Construction-related environmental impacts on sensitive areas include noise, which is a significant aspect to consider. The ambient noise level has been measured within the project area. Noise level monitoring was conducted at Route 16 and Route 21 of Lot 3 and at Solimganj ghat (Route 09) and Narsingdi Launch Terminal (Route 07) of Lot 2.

The Table 07 and Table 08 summarizes the findings of noise level monitoring in July 2023 of Lot 3 and Lot 2 site respectively.

Table 8: Noise Level (NL) monitoring Results Lot 2: Salimganj Ghat: Route 9

SI. No.	Sampling Station	Station Code	Geographic location	Monitoring date	Location Setting
1.	Beside of Bancharampur-Salimganj Nowpath (Route- 9)	NL-1	23°50'5.06"N 90°50'41.75"E	19.07.2023	Mixed Area
2.	Beside of Jamiatus Sunna Mohila Madrasa (Route- 9)	NL-2	23°50'52.08"N 90°50'42.72"E	19.07.2023	
3.	Near Emamnagar Jame Mashjid (Route- 9)	NL-3	23°50'25.32"N 90°50'38.76"E	20.07.2023	
4.	Near Nilkhi Primary School (Route-9)	NL-4	23°50'6.21"N 90°50'47.45"E	20.07.2023	

Table 9: Noise level monitoring results Lot3; Route 21, 16 and 17

SI. No.	Route	Station Code	Geographic location	Monitoring date	Location setting (DOE/IFC)
1.	Route 21	NL- 1	22°42'20.84"N 90°33'36.53"E	24/07/2023	-
2.	Route 16	NL- 2	22°47'22.68"N 90°31'25.03"E	24/07/2023	-
3.	Route 16	NL- 3	22°47'39.89"N 90°30'52.66"E	24/07/2023	-
4.	Route 17	NL- 4	22°45'9.70"N 90°27'19.82"E	25/07/2023	-

Underwater Noise Level

This measurement of underwater noise is important because excessive noise in a river can have negative impacts on aquatic life, including disrupting communication and feeding behaviors, causing stress and even physical harm to some species. There are many communities living on both sides of the dredging site, so for environmental construction compliance, it is important to monitor the noise level regularly.

Dredge Material

To assess the dredge material quality of the project area one sample was collected from the dredging disposal site following the USEPA technical manual. Sampling locations has been given in Table 10.

Table 10: Details of Dredge material sampling locations July 2023 (Lot2)

Parameter	Unit	Dredge Material – Route 9				Methodology/Instrument
		DM1	DM2	DM3	DM4	
Lead (Pb)	mg/kg	16.52	14.84	15.20	18.58	ICPMS
Cadmium (Cd)	mg/kg	0.08	0.07	0.06	0.09	ICPMS
Chromium (Cr)	mg/kg	26.6	24.6	25.6	24.9	ICPMS
Zinc (Zn)	mg/kg	29.64	31.24	32.58	30.59	ICPMS
Arsenic (As)	mg/kg	1.61	1.72	1.53	1.67	ICPMS

The analysis results of physicochemical parameters of riverbed sediment samples of Lot 3 site and the dredge material sample are presented in and Table respectively.

Table 10: Riverbed Sediment Analysis Results, July 2023 of Lot3

Riverbed sediment-Lot 3						
Parameter	Unit	SedQ1	SedQ2	SedQ3	SedQ4	Methodology
Lead	mg/kg	7.34	6.45	4.44	3.32	ICPMS
Cadmium	mg/kg	0.051	0.049	0.049	0.055	ICPMS
Chromium	mg/kg	8.42	7.45	8.46	9.43	ICPMS
Zinc	mg/kg	11.45	13.51	14.79	12.41	ICPMS
Arsenic	mg/kg	0.87	0.72	0.69	1.32	ICPMS

Note: ICPMS – Inductively coupled plasma mass spectrometry.

Table 11: Dredge Materials Analysis Results, July 2023 of Lot 2

Parameter	Unit	Dredge Material (Route 9)				Methodology/Instrument
		DM1	DM2	DM3	DM4	
Lead (Pb)	mg/kg	14.29	14.35	13.83	12.92	ICPMS
Cadmium (Cd)	mg/kg	0.06	0.08	0.08	0.07	ICPMS
Chromium (Cr)	mg/kg	24	21.85	21.94	22.02	ICPMS
Zinc (Zn)	mg/kg	35.72	35.72	37.52	33.83	ICPMS
Arsenic (As)	mg/kg	1.71	1.64	1.48	1.53	ICPMS

Note: ICPMS - Inductively coupled plasma mass spectrometry

Using the various pollution indicators, it was found that the river bed sediment is less contaminated by toxic metals during the study but the sediment quality may degrade in the near future due to increasing

anthropogenic inputs in the river basin, hence proper management strategies are required to control the direct dumping of wastewater in the river.

The observed concentrations of Zinc (Zn) for both Lot 2 and Lot 3 though within the limits but is of concern. The extent of Zn adsorption increases with an increase of pH. Furthermore, the adsorption of zinc increases with increasing particle size. The important geochemical phases, iron and manganese oxide also act as the active support material for the adsorption of zinc ions. Zn occurs naturally but the concentration increases from several sources like agricultural runoffs, wastes, industrial effluents, etc. At acute concentrations it probably kills fish by destroying gill tissues. The action of zinc undoubtedly differs at different concentrations, it varies with life history, and needs to be monitored.

Table 12: Recommendation for Updating Compliance Status of Lot-3 (July 2023)

Potential Aspects	Description	EMP Measures as Proposed in the EIA	Measures Already Implemented	Compliance Status			Remarks/ Recommendation	Recommended deadline for implementing the corrective measures
				C	P	N		
Dredging of IWT Corridor								
Analytical Monitoring Compliance								
Air Quality	SPM, PM10, PM2.5, CO, NO2, SO2 data provided in the report	Mitigation measures not required, results within ECR 2023 approved level	Not applicable	C	-	-	Within ECR2023 approved levels	Not applicable
Noise & Vibration	Only day data provided in the report	Mitigation measures taken, results within ECR 2023 approved level	Engine rooms closed, and covered	-	P	-	Within ECR2023 approved levels	Only day data collected; recommended night data to be collected from September. Also, when dredger is operating
Under Water Noise Level	Data provided in the report	Mitigation measures not required. No approved limits under ECR 2023	Not applicable	-	P	-	No approved limits mentioned in ECR 2023. Two hydrophones to be used at dredging sites (at present only one hydrophone used)	Two (02) hydrophones to be used as per contract during dredging operation from September
Surface Water Quality	Temp, pH, Turbidity, EC, DO, TDS, Ca, Mg, K, Cl, SO4, PO4 data provided in the report	Mitigation measures not required, results within ECR 2023 approved level	Not applicable	C	-	-	Within ECR2023 approved levels; sampling from both upstream and downstream of the dredging sites recommended	Suspended sediment concentration to be measured near dredger from September 2023
Drinking Water Quality			During this reporting month, safe drinking water has been provided to the site workers, and the toilets were found clean.	-	P	-	Toilet checklists need to be maintained on a regular basis.	September 2023
Soil Pollution	x	x	x	x	x	x	x	x

Visual Monitoring Compliance								
Aquatic Flora and Fauna including Plankton, Benthos, fish, dolphin	Data provided	Mitigation measures not required	No mitigation measure is required in the reporting period	-	P	-	Common fishes and crustaceans have been recorded	Advised regular monitoring of the habitat
Sediment Dispersion	Not measured	x	No mitigation measure is required in the reporting period	-	-	N	Contractors were notified to measure sediment plume on 1 st March 2023	No action taken or data provided by the contractors yet. Will be reminded again
River Bank Erosion	Usually mentioned in the report if any erosion is observed	Dredger stopped and relocated	Dredger stopped and relocated; some protection measures taken	x	x	x	Regular monitoring	x
Hydrological Conditions	Surveyed prior to dredging	x	x	x	x	x	x	x
Drainage Congestion	No action taken or data provided by the contractors yet. Will be reminded again				P	-	No reports of any drainage congestion	-
River Traffic/Transport	No complains received				P	-	River traffic related sign boards observed	
Accidental Spillage	No reports yet		No spills from chemical storage -		P	-	-	-
Sediment leakages from pipes and sediment disposal	No reports on ant leakage	Maintain pipes	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 prior to resumption; report to authority

Potential Aspects	Description	EMP Measures as Proposed in the EIA	Measures Already Implemented	Compliance Status			Remarks/ Recommendation	Recommended deadline for implementing the corrective measures
				C	P	N		
Dredging of IWT Corridor								
Visual Monitoring Compliance								
Drinking water & sanitation	Data provided	Followed	-	C	-	-	safe drinking water has been provided to the site workers	-
Safety of workers	Data provided	Followed	-	-	P	-	-	-
Waste management	Data provided	Followed	-	-	P	-	-	-
Cultural and archeological Sites	x	x	x	x	x	x	-	-
Reinstatement of Work Sites	x	x	x	x	x	-	-	-
Emissions from vehicles and vessels	Data provided	Followed	-	-	-	-	-	-
River bed sediments	Samples collected, analyzed, data in the report	Followed	-	-	P	-	-	-
Waste water	Data provided	Followed	-	-	P	-	-	-

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

Grievances Redress Mechanism (GRM)	Data provided	Followed	-	-	P	-	-	-
Incident Management System	x	x	x	x		-	x	x

3.2 Social and Resettlement Aspects:

3.2.1 Land Acquisition/Requisition/Good Faith Agreement/Charity

At present 20 agreements have already been completed and some are ongoing. Most of the places people have willingly done these. A little part of areas some influential people are leading about this matter. General people of the project sites can know the news of river dredging, dredged materials dumping and good faith agreements for several consultation meetings with local people in local Bazars, Union Council, villages and the local Schools. Progress of Dykes and Good Faith Agreements of the both Lots are illustrated in the following tables:

3.2.1.1 Lot2: Gulf Cobla – Karnafuly JV (Bancharampur and Nabinagar, Brahmanbaria).

Table 13: Good Faith Agreements, Lot 2 (District: Brahmanbaria)

Dyke No.	Route No	Land Owner		Land			Good Faith Agreement
		Name and NID	Address	Description	Quantity (Decimal)	Quality of Land	
1	9	Md. Monir Hossain NID: 6447046241	Village: Joy Nagar Upazila: Bancharampur	Plot No: 1117.1118, 10, 65, 1016, Mouza: Jay Nagar	95	Agricultural Land (Two Crops)	Done
2	9	Siblu Mia NID:1210488091772	Village: Imam Nagar Upazila: Bancharampur	Plot No:158, 155, 166, 147. Mouza: Imam Nagar	270	Agricultural Land (Two Crops)	Done
3	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 (Note: Land Owner is the Chairman of the School committee)
4	9	Md. Monzur Mahabub NID: 1210488092428	Village: Imam Nagar Upazila: Bancharampur	Plot No:3473, 3474 Mouza: Imam Nagar	55	Agricultural land (One crop)	Done
5	9	Jharna Begum NID:5546582981	Village: Barail Upazila: Nabinagar	Plot No: 316, 318, 397, 399, 314, 315, 401 Mouza: Borail.	132	Agricultural land (Two Crops)	Done
6	9	Md. Dostogir NID:7813941536	Village: Barail Upazila: Nabinagar.	Plot No: 326, 353,314, 622, 312, 126, 319, 320, 321, 334 Mouja: Borail,	141	Agricultural land (Two Crops)	Done
7	9	Monir Hossain NID: 12104880921009	Village: Imam Nagar Upazila: Bancharampur	Plot No.127 Mouja: Imam Nagar.	40	Agricultural land (Two Crops)	Done

Dyke No.	Route No	Land Owner		Land			Good Faith Agreement
		Name and NID	Address	Description	Quantity (Decimal)	Quality of Land	
8	9	Abdus Salam NID: 1210488089240	Village: Aka Nagar Upazila: Bancharampur	Plot No.6021, 5622, 5627, 6620, 3277 Mouza: Aka Nagar.	90	Agricultural land (Two Crops)	Done
9	9	Md. Zakir Hossain NID: 2693016135957	Village: Aka Nagar Upazilla: Bancharampur	Plot No. 2611, 2612, 6036 Mouza: Aka Nagar.	139	Agricultural land (Two Crops)	Done
10	9	Md. Alamgir Kabir. NID: 1218575059084	Village: Nilukhy Upazila: Nabinagar	Plot no. 455. Mouza: Borail	52	Agricultural land (Two Crops)	Done
11	9	Md. Kabir Hossain. NID: 10488088336	Village: Aka Nagar Upazilla: Bancharampur	Plot no. 5972/ 5380/5984 Mouja: Aka Nagar, Bancharampur,	139	Agricultural land (Two Crops)	Done
12	9	Md. Nazrul Islam. NID: 8705507518	Village: Aka Nagar Upazila: Bancharampur	Plot no. 3053, Mouja: Aka Nagar.	50	Agricultural land (One Crop)	Done.
13	9	Md. Monirul Islam. NID: 8672153577	Village: Aka Nagar Upazila: Bancharampur	Plot no. 2422, 2423, 2412, 2417, 2424, 2425 Mouza: Aka Nagar.	190	Agricultural land (Two Crops)	Done.

Note: Recently four (04) dykes also been selected under rout No. 9. Papers (*Deed, Parcha*) collection are under process. It will take two weeks' time to complete good faith agreements of these new 04 dykes

3.2.1.2 Lot3: Dharti – Banga JV:

Table 12: Lot3: Dharti – Banga JV (District: Barishal and Bhola).

Dyke No.	Route No	Land Owner		Land			Good Faith Agreement
		Name and NID	Address	Description	Quantity (Decimal)	Quality of Land	
1	21	Salam Fakir NID:822301404 7	Village Ghagoria. Upazila: Mehendiganj District: Barishal	Plot No: B.1901/56	200	Agricultural and (Two Crops)	Done (Note: Near Bheduria Ferry ghat)
2	21	Mizanur Rahman NID: 6850475422	Village and Char Bheduria. Upazila and District: Bhola	Plot No: 1901/28	121	Agricultural land (Two Crops)	Done
3	21	Salam Fakir NID:822301404 7	Village: Ghagoria. Bheduria Upazila: Mehendiganj District: Barishal.	Plot No: 1901/56	224	Agricultural land (Two Crops)	Done
4	21	Jahingir Hossain	Village: Sripur,	Plot No: 1501	80	Fellow land	Done

Dyke	Route	Land Owner		Land			Good Faith
		NID: 0616213052704	Upazila: Mehendiganj District: Barishal.				
5	21	Mizanur Rahaman Harun NID: 6860475422	Char Bheduria. Upazila and District: Bhola	Plot No: 1107. 1181, 1182, 2123, 2124, 2119, 2125	300	Agricultural land (Two Crops)	Done
6	21	Nur Nabi Vhuya NID: 0616213050970	Village: Seripur Upazila: Mehendiganj, District: Barishal	Plot No: 1468, Mouza: Ghagoria	365	Agricultural land. (Two Crops) (Watermelon, Bitter Gourd)	Done
7	21	Nur Nabi Vhuya NID: 0616213050970	Village: Seripur Upazila: Mehendiganj, District: Barishal	Plot No: 1468, Mouza: Ghagoria	120	Agricultural land (Two Crops) (Watermelon, Bitter Gourd)	Done

3.2.2 Communication and Public Consultation:

The social and safeguard team have communicated with local people and conducted consultation meeting on a regular basis. On the other hand, the team also have communicated with UNOs, ADC and DC, Brahmanbaria.

3.2.3 Labor/Worker Employment, OHS, and GRM Status: (Emphasis on Social issues)

The S1A team assessed the Labor/Worker Employment, Labor and Working condition, Occupational Health and Safety, and Grievance Redressal Mechanism (GRM) Status during the reporting period by reviewing the contractors' monthly reports and from the direct visual observation during site visits.

3.2.3.1 Number of Contracts (if any) and labor employed (gender disaggregated)

During the current monitoring, the number of employed workers/labors remained the same as that of the previous monitoring period, which is 19 Labor/workers at Lot2 sites and 52 Labor/workers at the three sites of Lot3. All of them were employed based on the written appointment. All employed labors are male. An attendance sheet has been found to be maintained to keep record of the presence and activities of the employed labor. The following table illustrates the number of labors by type:

Table 143: Employed no. of labor by Type Lot2

Sl.	Designation	Sex	No.
1.	Foreman	Male	02
2.	Pipe Fitter	Male	15
3.	Cook	Male	02
Total		Male	19

Table 154: Employed no. of labor by Type Lot3

Sl.	Designation	Sex	No.
1.	Leverman	Male	5
2.	Supervisor	Male	4
3.	Electrician	Male	2
4.	Driver	Male	3
5.	Greaser	Male	9
6.	Lascar	Male	23
7.	Night Guard	Male	3
8.	Cook	Male	3
Total			52

3.2.3.2 ESHS Status and OHS Related Incident:

Data has been collected through directly observed the working condition of the laborers. No female labors are available in the project sites. Data are collected about working situation, presence of male and female laborers, working environment, wage, first aid, labor shed etc. First-aid medical boxes, safe drinking water, toilet facilities are available in the project areas. No child laborer and no forced laborer have been engaged in the project work. Laborers have received wage in proper time and no harassment / no time lengthening happened. They are satisfied with their work and wages.

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

No female laborers are available together with male laborers in the project site. On the other hand, the local people have reported that the dredging workers/ laborers have no congenial or free mixing relationship with the local female. No data have found about the violence against women. Everybody reported that no sexual exploitation, sexual violence, or gender-based violence happened in work sites.

3.2.4 Grievance Redressal Mechanism (GRM):

The BRWTP-1 project has its own GRM system with three stages of mechanism (Field site level, River port level and Project level) and the compensation system follows the World Bank rules. The Consultant assists the Client in monitoring the functioning of the GRM that have been set up by the Client to receive and process project-related feedback, suggestions, concerns and complaints, especially in relation to the dredging activity carried out under the OPBC-IWN contracts and the Vessel Storm Shelters construction contract. This includes the following: (i) continuously checking in the field to ensure that the information on GRM remains publicized in an appropriate manner at the relevant sites and any complaints received by the Contractors and the Consultant himself is forwarded to the Client. (ii) Assisting the Client to prepare and disseminate brochures and signboards containing information of interest to people living close to the project sites.

The dredging contractor ‘DHARTI-BANGA JV’ (Lot 3) has formed two Grievance Redressal Committees (GRC), but no grievance complaints/incidents have yet been reported to be resolved.

The dredging contractor Gulf Cobla-Karnafuly JV reported that Local people are informed about reporting mechanisms of grievance or suggestions if any. However, during the current monitoring, no grievance has been recorded as per the grievance register. Followings are the photos of grievance boxes installed at different places of dredging sites of Lot2:

3.3 Development and Maintenance Dredging Works:

3.3.1 Lot 2:

Two routes were monitored during the monthly site visit of July 2023, Solimganj (**Route-9**) and Narsingdi launch Terminal (**Route-7**). During the monthly site visit dredging activities were not significant.

In the reporting month new dredging site at Narsingdi on Route 7 was selected, but no dredging activities have started yet. Dredged material from Imamnagar dredging site was disposed in Dike No. 7. The status of dredging activity is given on the following Table 20 and 21;

Table 165: Updated Dredging Work at a glance in July 2023: Lot 2

Serial No.	Dredger Name	Time Period	Route No.	Place	Cutting Length	Cutting Volume
01.	Karnafuly -07	01 to 31 July	9	Solimgonj Nowka Ghat	169 m	8359.08 m ³
02.	Karnafuly -03	01 to 31 July	9	Imam Nagar	47 m	2336.1 m ³

Table 176: Route 09: Dredging Progress July 2023

Location	Length	Chainage	Dredging Depth	Dredgers
Titas River near Solimgonj bridge, union Tejkhali under Bancharampur upozilla in Brahmanbaria district	58km (Ch0+000 to Ch58+000)	Dredging Chainage from Ch0+000 to Ch8+860.	The current progress dredging depth is avg. 1.617m	Dredging work was done by two CSD dredgers named Karnafuly-03(18”) and Karnafuly-07(18”).

3.3.2.1 Survey works up to 31st July 2023:

- Topographic survey/Pre-work:
Location: Solimgonj-Homna Route 09
Chainage: K0+000 to K8+860
Survey done on dated: 16.01.2023 to 27.01.2023
- Bathymetric survey/Pre-work:
Location: Solimgonj -Homna Route 09
Chainage: K0+000 to K8+860
Survey done on dated: 16.01.2023 to 22.01.2023

3.3.2.2 Dredging work up to 31st July 2023:

- Location: Solimgonj - Homna Route 09
Date: From 6th July, 2023 to 31th July, 2023
Dredger name: **Kornophuly-07**
Number of swings is 1 (one)
Chainage: K3+389 to K3+558
Total Length: 169 m
Width: 30m
- Location: Solimgonj - Homna Route 09
Date: From 7th July 2023 to 31th July, 2023
Dredger name: **Kornophuly-03**
Number of swings is 1 (one)
Chainage: K4+289 to K4+336
Total Length: 47 m
Width: 30m

3.3.2.3 Information on Disposal Areas July 2023:

(Solimgonj - Homna Route 09, Disposal area R09-D9, R09-D2, R09-D3, R09-D4, R09-D13 and R09-D15 are used up-to 31th July 2023)

- (1) R09-D9: Area is 9,409 sqm; Height is 3.7m and estimated capacity containing 34,814cum spoils. It is completed.
- (2) R09-D2: Area is 17,493 sqm, Height is 3.0m and estimated capacity containing 52,479cum spoils.
- (3) R09-D3:
Block A:
Area is 960 sqm, Height is 1.5 m and estimated capacity containing 1440 cum spoils.
Block B:
Area is 1682 sqm, Height is 1.2 m and estimated capacity containing 2018.4 cum spoils.
Block C:
Area is 962 sqm, Height is 1.1 m and estimated capacity containing 1058.2 cum spoils.
- (4) R09-D4: Area is 2,226 sqm, Height is 2.0m and estimated capacity containing 4,452cum spoils.
- (5) R09-D13: Area is 7729 sqm.
- (6) R09-D15: Area is 2112 sqm.

3.3.2 Lot 3:

Because of the monsoon season, there was no dredging activity observed during the monthly site visit in July 2023. Two dredgers were placed in Route 16 (Opposite side of Patarhat Launch Terminal) and the other one was in Route 21 (near Bheduria Ferry Ghat). No new dikes were constructed for dredged material disposal during this reporting month.

3.3.3 Status of Navigation Aids Management:

In response to letters various dates and discourses on posting cautionary signs/signals for dredge route 16 & Route 21 under Lot 03 & Route 09 under Lot 02. The contractor for Lot 03 Dharti-BANGA JV and contractor for Lot 02 GULF-KOBLA KARNAFULY JV have already fitted the required posts & board containing necessary cautionary signs /symbols during ongoing dredging along Routes 16 & 17 under Lot 03 and along route 09. Furthermore, it has been reported from both contractors that they are trying best to expedite the procurement processes for the buoys as per IALA Marine buoyage System. Both the contractors for Lot 02 & Lot 03 are advised to carry out the necessary installation of Aids to Navigation at the soonest otherwise, there might be prone to complete the project BRWTP-1 within scheduled time in jeopardy.

CHAPTER 04: PROJECT MANAGEMENT AND PROGRAMME SUPPORT ACTIVITIES

To monitor dredging operation progress, resolve Environmental Health and Safety (EHS) concerns, and discuss other pertinent subjects as needed, monthly progress meetings were usually held at Lot 2 and Lot 3 field offices. Other than the meetings with the contractors, several meetings with PIU and BIWTA were held during the reporting period to assess progress and discuss the updated dredging activities and environmental-Social resettlement- ESHS-related issues. These team sessions enable efficient and smooth project implementation by fostering teamwork and good communication.

4.1 Coordination and Monthly Progress Meetings:

4.1.1 Coordination Meeting with the Contractors Team (Lot 2)

Three weekly coordination meetings consecutively on 10, 17 and 24th of July, 2023 have been held with the Lot 2 contractor in the S1A project office conference room in order to identify the gaps and difficulties in the sites for increasing cooperation between the S1A consultant and the contractors in order to mitigate the difficulties arising in the project areas.

4.1.2 Progress Meeting on ESHS Activities and Navigational Aid with BIWTA, Contractor (Lot 2 and Lot 3) and PIU

The meeting was held on the date of 19 and 20th of July 2023 between the Lot 02 and Lot 03 contractors, BIWTA, PIU and S1A in order to finalize the progress with the ESHS activities and Navigational Aid activities in all the routes under Lot 2 and Lot 3. The Navigational Aids Expert Mohammad Shah Alam of S1A consultant have provided a presentation in order to discuss about the types of navigations need to be used on perspective of Bangladesh.

4.1.3 Progress Meetings with PIU:

A progress meeting was held on 26th July 2023 in order to discuss about the review of monthly reports, quarterly reports and other professional discussion with S1A consultant in order to give complete feedback about the gaps and challenges in the monthly and quarterly reports. Also, a brief discussion about the Contractors Management Plan have conducted with the PIU in order to check out the proper progress of the contractors and some gaps have been discussed which have been requested to review for the S1A consultant.

4.2 Performance Schedule of the Consultant for the Next Month:

A tentative monitoring and supervision plan for the next month is shown in the table below. The contractor did not provide any plans in their reports. So, it is very difficult to make a monitoring plan without information. S1A asked the Contractors of both Lot 2 and Lot 3 to provide a monthly plan. Hopefully, the team will be able to include the monthly plan in the right way.

The schedule for the next month is organized based on last month's work as well as considering the activities going on at the field level. This plan will be updated or changed depending on the pace of field activities and immediate needs.

Table 18: Performance Schedule of the Consultant for the Next Six Months

Performance Schedule of the Consultant for the Next Six Months																									
Activities	MONTHS	JULY				AUGUST				SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER			
	WEEK	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
	River Routes																								
	Route 21, Route 15&16 and Route 12 of Lot-3 and Route 09 & Route 07 of Lot-2	Supervise, Mobilization & Site Preparation																							
Dredging Works																									
Social and Resettlement Activities																									
Environmental Supervision																									
ESHS Supervision																									
Management and Programme Support																									
Trainings/Workshops/ Meetings																									
Field Visit and Monitoring																									
Reporting and Documentation																									

CHAPTER 05: ISSUES AND CONCERNS

5.1 Convenience

The project is a team work between PIU, Consultant (S1A) and Contractor (Lot 2 and Lot 3) which is noticeable from the beginning. In the month of several meetings were held with PIU teams which helped the S1A consultants to follow up with the works and updates. Besides, coordination meetings with PIU, BIWTA and contractor have improved the work quality on a functional basis. Moreover, arrival of international consultant has helped progress the field movement, hydrography surveying and coordination with the contractors of both LOT-2 and LOT-3. These regular meetings, coordination and discussions are helping the consultants to work in discipline and thus the progress remains continuous.

5.2 Difficulties

Lot-2: The dredging progress of Gulf Cobla-Karnafuli JV at Solimganj, Brahmanbaria is not much. Within the reporting period they have completed one dyke (full), other two are 70% filled at present. Most of the time their ‘Dredger’ does not work. The land lease and good faith agreement activities are ongoing.

Lot-3: In Bheduria (Barisal), Dharti-Banga JV has not dumped dredged material properly on dykes.

Major difficulties faced during the monitoring and supervision in the month of July 2023 are listed down as follows:

- Contractors are advised to take approval on dyke design from S1A Consultant.
- Contractor are advised to maintain record properly of all sand or sediment extraction.
- The contractors are advised to maintain/address health and safety issues such as using PPE, vest, helmet, hand gloves, safety shoes and life savings equipment properly.
- The contractor is requested to control the discharge of site runoff including excess dredge water by the installation and correct use of containment walls, bunds and weirs.
- Contractors are advised to improve internal monitoring of their works.

5.3 Moving forward

- The contractors are advised to mobilize all qualified professionals to the project site and take necessary measures in order to solve the above-mentioned issues.
- The contract schedule, standards and specifications need to be adhered by the contractor.
- The contractors are advised to give prior notification, arrange coordination meetings and take necessary approvals from S1A to commence any major activities as and when necessary.

CHAPTER 06: CONCLUSION AND/OR RECOMMENDATIONS

Most important part of the dredging is to follow and maintain the rules provided by the GoB and World Bank. Maintaining the rules are very necessary since every progress on the project have direct impact on the environment. Besides, the contractors should not be oblivion about the dyke maintenance, durability maintaining and constant monitoring of the work progress. Moreover, contractors need to be cooperative with the consultant about the working progresses and provide work plans for constant update of work progress. Adequate surveying instruments and dredging materials need to be ensured in the site.

Dialogue and consultation with contractors and PIUs are important for the implementation of project activities. Documentation of meetings held with contractors or PIU members, in-house, or with any other stakeholders should be properly documented and circulated among stakeholders/participants. S1A is already maintaining these activities in a structured process. The S1A team is preparing a regular meeting schedule with contractors and other stakeholders that will be publicized and adhered to.

In July 2023, LOT-2 contractor dredged 216 m in linear length on Route 9 (Class III, length 60km, Titas River). The progress is very poor. The main challenge is failing to provide continuous operation of dredger due to frequent machinery breakdown.

During the month of July, 2023, the LOT-3 contractor didn't carry out any dredging work as during monsoon the LADs exist in all the routes under Lot-3. They did the maintenance surveys and environmental quality control activities on Route 16 and Route 21 (Mehendiganj to Bheduria, Tentulia River).

In the following month, the Lot-2 contractor will expedite their work in Route 9 and also give a work plan for other routes as well. The Lot-3 contractor will start working on Route 12 Chandpur Launch Ghat Area.

CHAPTER 07: ANNEXURE

ANNEX 01: Project location and River Boundary

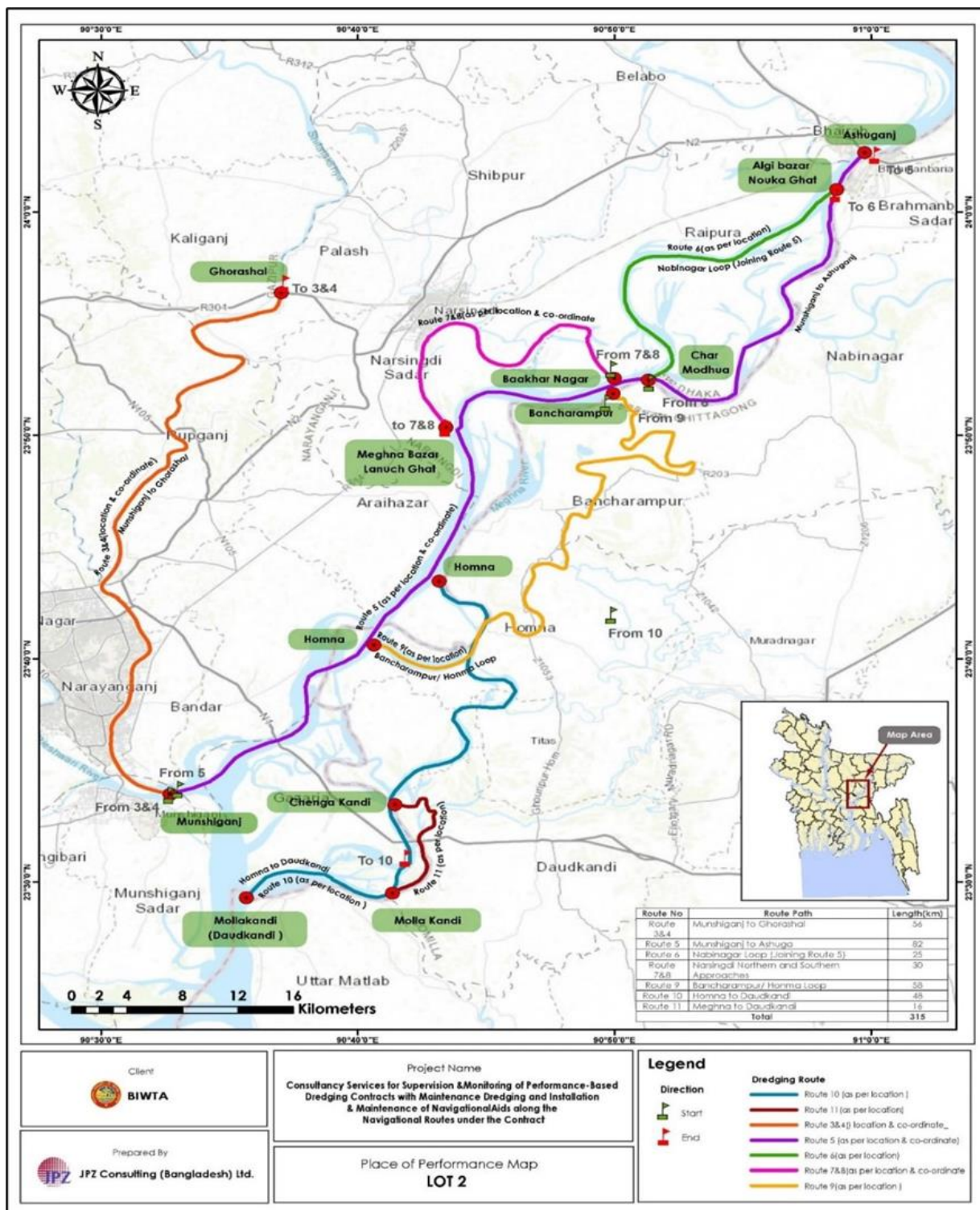


Figure 2: Project Location (with route) of BRWTP-1 Project, LOT-2

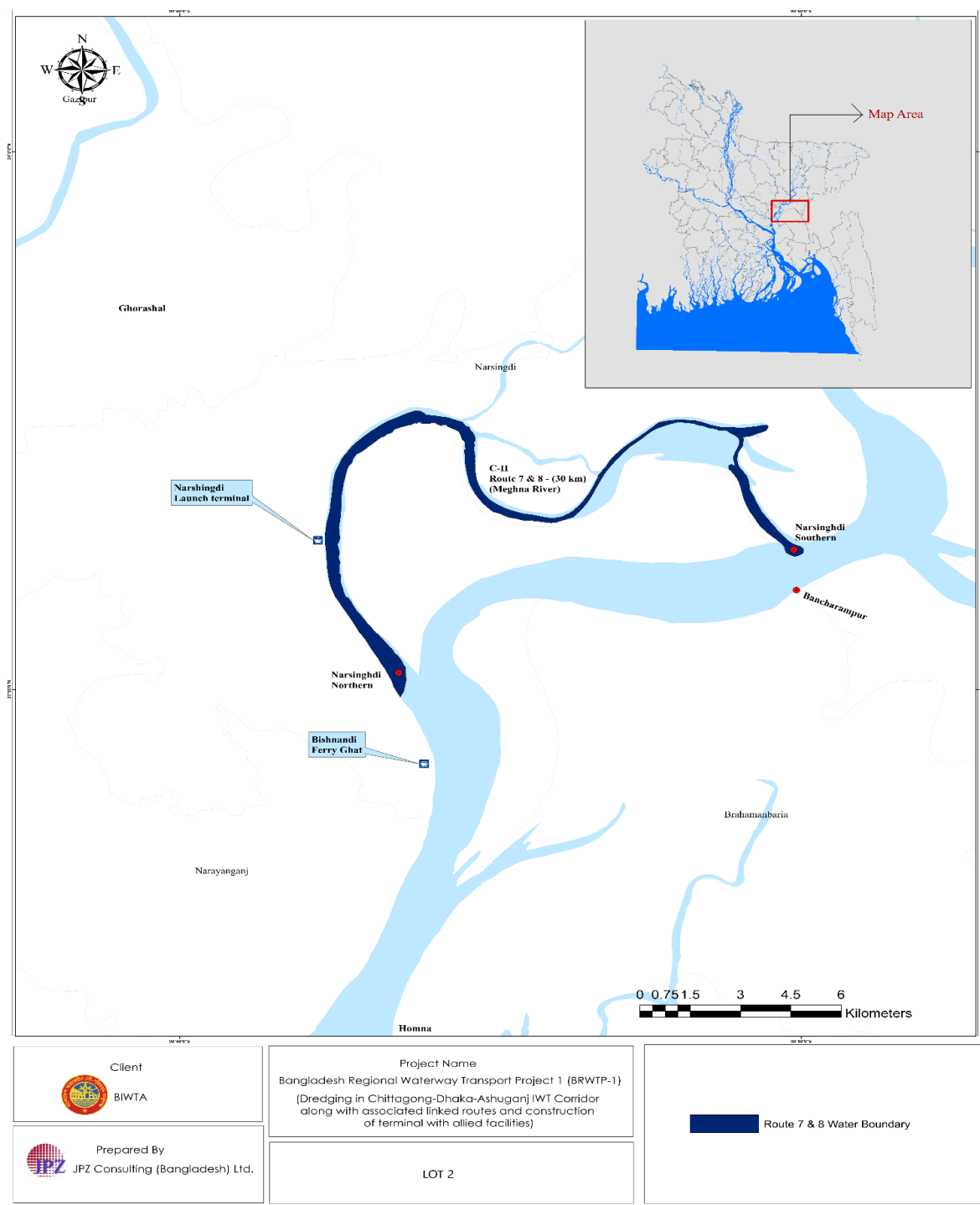


Figure 3: Route 07 Water Boundary

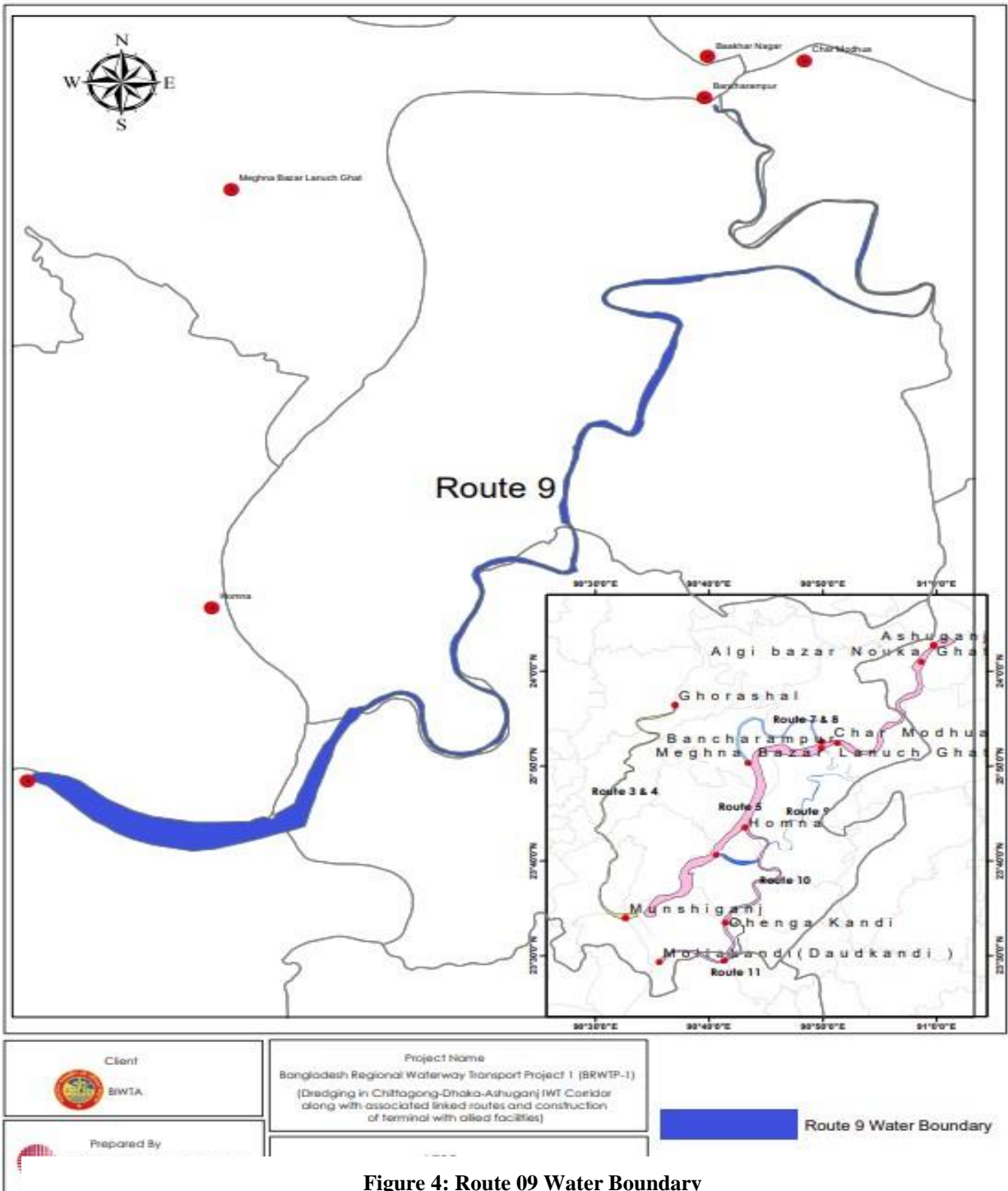


Figure 4: Route 09 Water Boundary

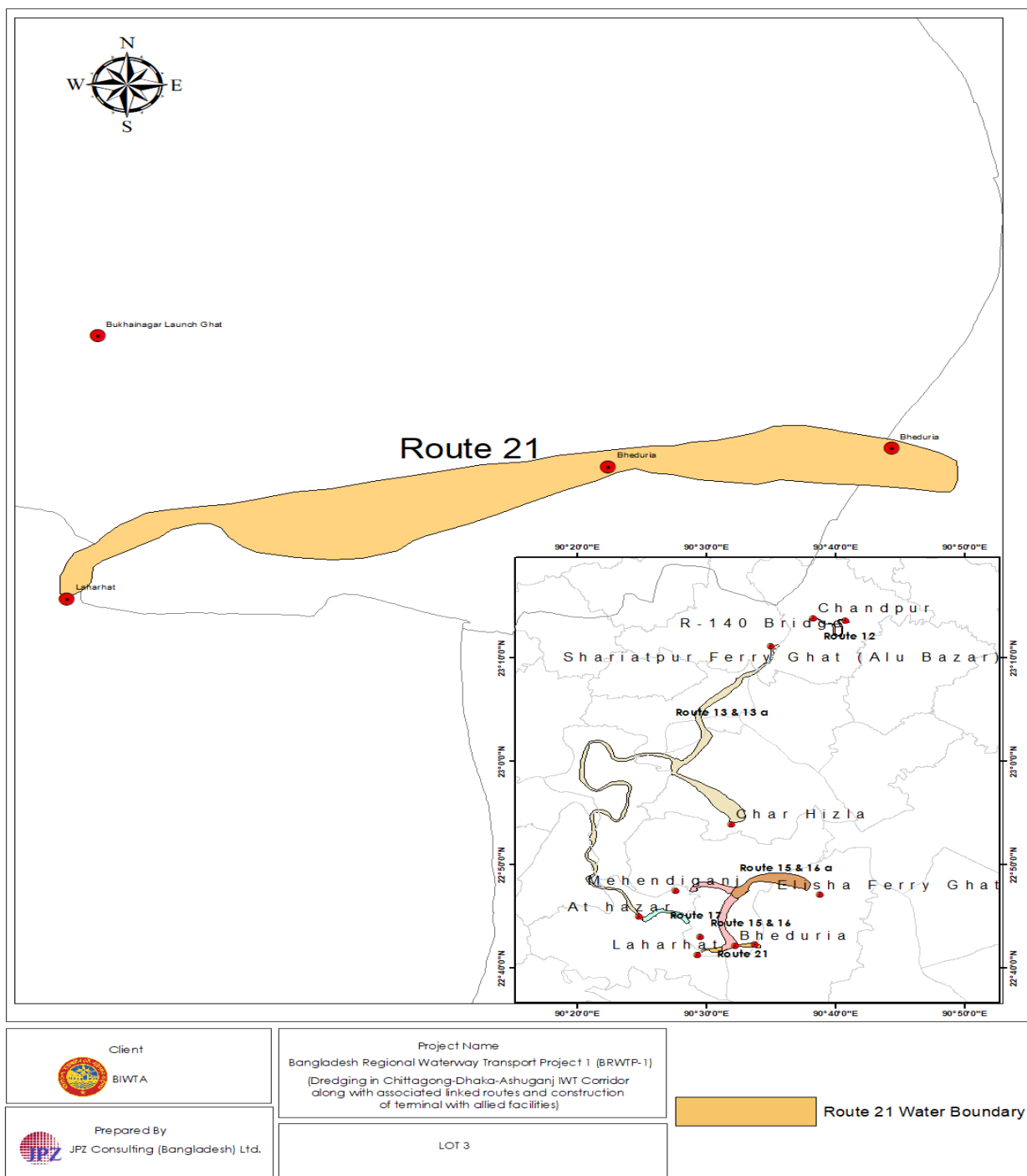


Figure 5: Route 21 River Water Boundary

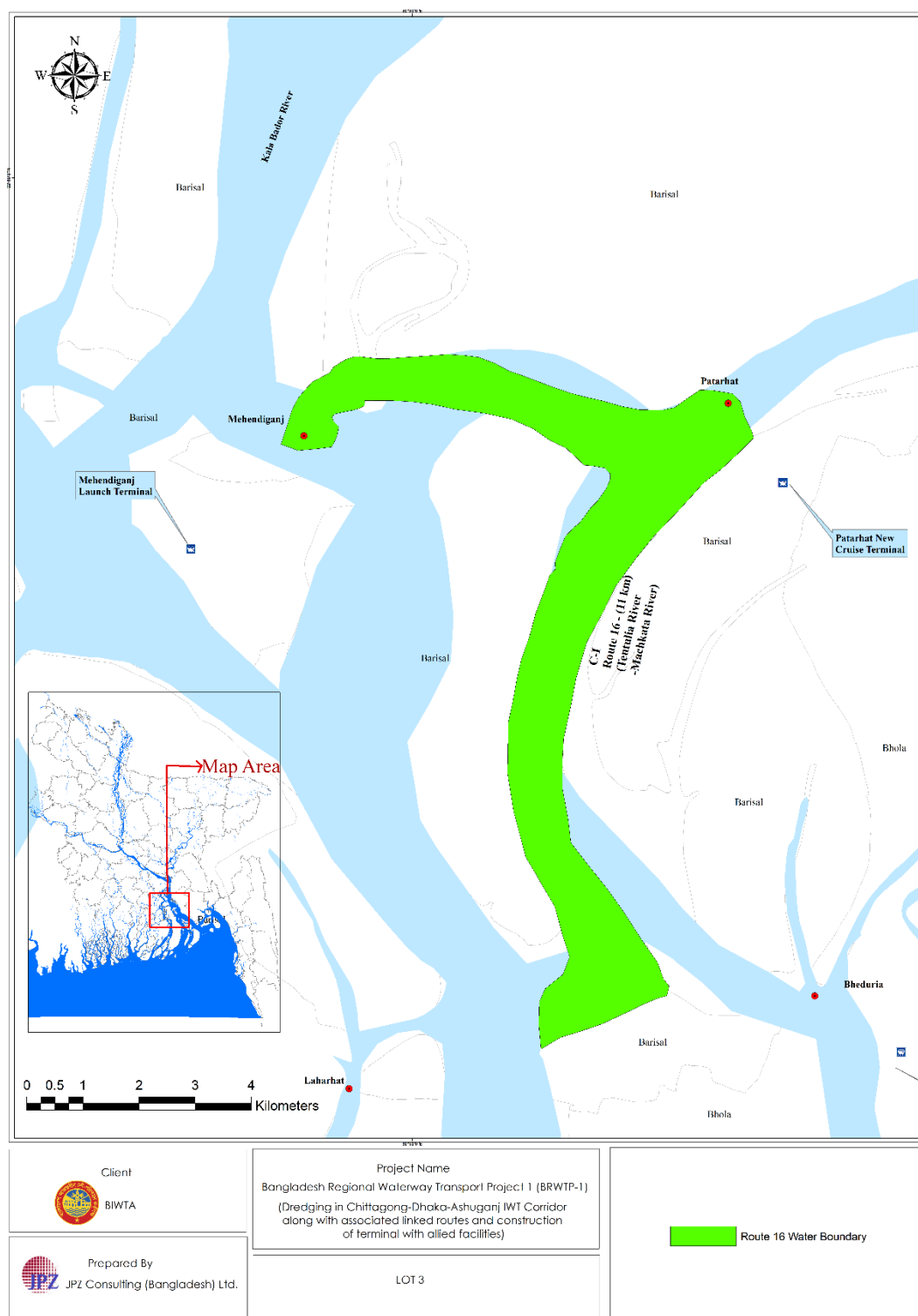


Figure 6: Route 16 Water Boundary

ANNEX 02: Field Visit, Survey and Meeting Photos, July 2023



Figure 7: Meetings of S1A Consultant Team July 2023



Figure 8: Air Quality Measurement at Route 16 and Route 09



Figure 9: River Bed and Dredge Material Sampling at Lot3 and Lot2 Sites Respectively



Figure 10: Noise monitoring near Solimganj Ghat near River Route 09



Figure 11: Grievance Box at Dredging Sites of Lot2



Figure 12: Site Visit and Dyke Selection Process



Figure 13: Photo of dredge material disposal area R09-D7 and R16-D2

ANNEX 04: Response Against Consultant (S1A) Comments on Monthly Report, July 2023

Response against Consultant Comments on Monthly Report, July 2023 (Lot2)

SL No.	Section No.	Consultant's Comments	Response	Remarks
1.	Executive summary	Exe. summary can be shortened, just keep it to the monthly activities	It has been amended as per your observations.	
2.	Executive summary	Mention the values	The details test results are given in section 4.3.1	
3.	Executive summary	Please do a spell check before you submit	It has been corrected accordingly.	
4.	Executive summary	Sources of pollution/noise, etc., would give the reader a better understanding of the location/habitat	Sources of noise generation are added.	
5.	Executive summary	Were the samples collected from upstream and downstream of the dredging sites? It needs to be mentioned.	It has been updated.	
6.	Executive summary	Data sheets related to fish catch survey should reach you soon.	Captured Fishery Survey Data sheet has been added in the Appendix J-1.	
7.	Executive summary	participant list, date, training topics, photos, etc.	Participant's list, date, topics and photos are given in appendix.	
8.	1-1	The Table 2 serves the purpose related to ES Consultants so Table 1 may be deleted	Well, noted, Sir.	
9.	4-4	Fish catch data sheets as annex	Captured Fishery Survey Data sheet has been added in the Appendix J-1.	
10.	4-4	Attach observation sheet as annex	Observation sheet has been added in the Appendix J-2.	
11.	4-4	How did you make the observation?	Dredging site, dike area and adjacent local area near the dredger has been surveyed. Consultation has been done with local people and fishermen showing them the 'Picture book' of turtle. Consultation picture is added in the Figure 11.	
12.	4-4	Can't understand???	During this reporting month, four air quality monitoring were conducted. As per the BOQ, a total of 12 air quality monitoring need to be carried out on a quarterly basis. To maintain this, four air qualities has been monitored for this month.	
13.	4-4	Should be in past tense	Corrected as per your suggestions.	
14.	4-5	DO was to be tested on-site! was it done	Yes Sir. As per your previous guideline, we did DO test onsite.	
15.	4-10	Date time missing in the photo	Updated as instructed.	
16.	4-11	exceeds the approved limit	The maximum recorded value, referred to as Lmax, was observed. The Leqday value, which was 60.32, falls within the standard acceptable range.	
17.	4-12	No dredging was done in July! What was the purpose for taking underwater noise level?	For comparison purpose, underwater noise has been taken for this month.	
18.	4-14	Photo date, time??	Picture with time and date has been added.	
19.	4-15	was the DO measured on site?	Yes Sir, as per your guideline	
20.	4-17	Check figure numbers	Updated	
21.	4-18	Observation/data sheets??	Captured Fishery Survey Data sheet has been added in the Appendix J-1.	
22.	4-18	data, time in photos	Photos with date and time have been added.	
23.	4-19	???	Cross reference has been added	
24.	4-23	Disposal plan for dredge material	This section has been revised based on your	

SL No.	Section No.	Consultant's Comments	Response	Remarks
			recommendations. Notably, no dredging activities took place during the current reporting month. However, when dredging activities commence, we will provide comprehensive measurements and plans for managing dredging operations from both environmental and social perspectives.	
25.	4-23	doing what, since there was no dredging?	This manpower was not engaged for dredging. Generally, 58 persons are working in this project, it can be vary depending on the activities. In addition, workers are engaged in equipments handling, houseboats, dredgers and others as per requirements.	

Response against Consultant Comments on Monthly Report, July 2023 (Lot3)

Page No.	Consultant's Comments	Response	Remarks
viii	This was also mentioned in the last monthly report. Looks like the dredging work is either stalled or the dredgers are not well maintained	The statement has been corrected accordingly.	Dredging is not yet started at Route-7. Hopefully will be started in the upcoming month.
viii	Solimganj ghat is one location, what are the other locations?	The statement has been corrected accordingly.	During baseline monitoring we mentioned Route-9 (Bancharampur/ Homna Loop) as "Salimganj ghat". All the locations with co-ordinates are in 4.3.1. Please check.
viii	mention values		
viii			
ix	This is not a valid statement. As per the comments of June 2023 this was supposed to be corrected. Please go through June 2023 comments	The statement has been corrected accordingly.	The study team did not find any Ganges River dolphins in all sites, and local people also confirmed that Ganges River Dolphins are not found in River Routes 9 and 7. Also, there was no direct observation of freshwater turtles in the dredging site, dike area, or adjacent local area.
ix	Repetition	The statement has been corrected accordingly.	
4-1	Please check the June 2023 comments and provide the necessary data/observation sheets		
4-1	Mention about the efforts or initiatives taken to observe dolphins or turtles? Statements like "local people confirmed" is mentioned in all the reports....what efforts have been made by Lot 2 to collect information on the endangered species within the area?	The fishermen and adjacent local people were surveyed through a picture book showing them the species of dolphin and turtle species. River bank area, dredged material disposal site and adjacent area were also surveyed for the collection of data.	
4-15	Rewrite based on June 2023 comments	The writings have been updated accordingly	
4-17	Next time the fishermen are visited, show them pictures of the turtles. I am sure you will get some information.	Well noted. The consultation by showing photograph of Turtles will be conducted from the following month	
4-18	??	Updated accordingly	
4-19	Check??	The comment has been updated accordingly.	
4-22	Describe the disposal site	The writings have been updated accordingly	

Responses to PIU and S12/3 Consultants Comments/Feedback on Monthly Report, July 2023

SL No.	Third Party M&E Consultants for Environmental Safeguards feedback/comments:	Responses from S1A Consultant	Remarks
1.	ToR provided by the WB for reporting	The ToR describes about the deliverables and not on the reporting template. It will be appreciated to get a TOR for reporting	
2.	During the training for capacity building of Dredging Supervision Consultants, DSC (Package S1A), Contractors of LOT-2 and LOT-3 (Package W1A) and consultant of S17 held on July 16, 2023 at the Conference room of BRWTP-1 project, the S1A consultants ensured us that they will follow the ToR as well as comply our reviews on their report (showed through presentations) from the month of July, 2023. But our consultants informed us that none of the above was followed and it is prepared in the same format as before.	The reports are produced as per the template provided by PIU and approved by the WB (Attached). The only difference is that we have added some sections on the dredging activities as the project is mainly a dredging project. “None of the above was followed” is a very generalized comment. We would appreciate if the observations are specifically mentioned.	TOC template for the monthly reports is attached.
3.	S1A should be monitoring the environmental aspects mentioned in the approved ESIA for the works undertaken by Contractors of LoT-2 and LoT-3 and identify the gaps and provide suggestions to overcome them by Contractors of LoT-2 and LoT-3. But there is nothing like that in their report	Sampling for the collection of environmental data by the contractors is done in the presence of S1A field staffs. The results are shared with S1A in the form of monthly reports. Any gaps identified are notified to the contractors and are asked to resubmit the reports. The reports submitted to the PIU are the revised and corrected versions.	
4.	It was found that the report presents the same things that are presented in the monthly reports by Contractors of LoT-2 and LoT-3.	This will be checked for the month of July report and will be taken care of in the future reports	
The PIU's safeguard cell has the following observations as well:			
5.	The submitted reports are more generic and have no specific comments and suggestions	The reports are the revised and corrected ones. A comments/response table will be added for clarification in the reports	
6.	The submitted reports should be written and checked by the respective Consultants and reviewed by the S1A Management;	The reports submitted by the contractors are checked by the respective Consultants	
7.	It is suggested to include the compliance status of EMP implementation into the report;	A comments/response and compliance table will be added in the report(s)	
8.	Description of dredge material sites and dredge material handling procedures should be provided/monitored;	Provided in the report	
9.	Photographs and GIS maps of the dredge	Photographs of the dredging sites and before-and-	

SL No.	Third Party M&E Consultants for Environmental Safeguards feedback/comments:	Responses from S1A Consultant	Remarks
	material sites should be incorporated.	after disposal sites are given. GIS maps will be incorporated in our future reports	
10.	The MPR-July 2023 is returned to the S1A Consultant for updating and to re-submit accordingly.	The report is updated as suggested.	