



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



Bangladesh Inland Water Transport Authority (BIWTA)



The World Bank



# MONTHLY PROGRESS REPORT

## OCTOBER 2023

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

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



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JPZ Consulting Ltd., Bangladesh  
(JCL)

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### Abbreviation

AILA	Association of International Lighthouse Authorities
ASCII	American Standard Code for Information Interchange
BIWTA	Bangladesh Inland Water Transportation Authority
BM	Bench Mark
BRWTP	Bangladesh Regional Waterway Transport Project I
BWDB	Bangladesh Water Development Board
CD	Chart Datum
CEAP	Contractor's Environmental Action Plan
CSD	Cutter Suction Dredger
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	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
MOEF	Ministry of Environment, Forest and Climate Change.
MSL	Mean Sea Level
NID	National Identity
OPBC	Output and Performance-Based Contract
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

## EXECUTIVE SUMMARY

### Background

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. 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-BANGA JV herein referred to as Lot-3; under Bangladesh Regional Waterway Transport Project -1(BRWTP-1), Contract Number BRWTP W1A-02 and 03 respectively.

### Progress of the Contractors during the Reporting Period

In October 2023, Lot-2 contractor dredged 902 m on Route 9 (Class III, length 80km, Titas River). From the month of March 2023 till October 2023, they have cumulatively dredged 3.0171 km on Route 9. The progress is very poor. The main challenge is failing to provide continuous operation of dredgers due to frequent machinery breakdown. Moreover, accumulation of polythene bags and other nonperishable items has been found at some Locations on Route 9, which is obstructing the dredging progress.

During the month of October, 2023, the Lot-3 contractor carry out 69 m of emergency dredging work on Route 21. Besides, they have done 128 km Hydrographic Baseline Survey on Route 12, 13, 13a, 16 and 21. Moreover, they did the maintenance surveys and environmental quality control activities on Route 16 and 21.

### The Consultants activities during the Reporting Period

During this reporting period, a progress meeting was held at World Bank premises on 1<sup>st</sup> October, 2023 where the WB representatives including TTL, PIU, S1A and both the contractors participated. The S1A consultant gave a presentation on the dredging progress of Lot-2 and Lot-3 activities. In the meeting, the Lot-2 contractor assured that they will complete the survey works on all routes by 31<sup>st</sup> October, 2023 and also the Lot-3 Contractor has assured that they will complete the survey works of all routes and submit the total dredged volume by 15<sup>th</sup> November, 2023. Besides, a project coordination meeting was held on 16 October, 2023 between the WB representative, PIU, BRWTP S1A consultant & Contractor (Lot 02) at conference room of S1A (JPZ-DEMAS-JCL-JV) project office chaired by Capt. Inderveer Solanki. In the meeting, a decision has been made that the S1A consultant will provide daily survey and dredging log sheet template so that the Lot 2 and Lot 3 contractors can submit the survey and dredging information on daily basis. The decisions have been taken due to the slow progress of the contractors. Meanwhile, we have submitted PIU the daily and weekly reports as requested. Also in the meeting, Capt. Solanki requested the Lot-2 contractor to submit a work plan with the help of S1A consultant, which was provided to the Lot-2 contractor by the S1A consultant and the work is progressing accordingly. Besides, the Lot-3 contractor has started emergency dredging work on Route 21 where a new dyke location (D-8) has been selected by the S1A consultant for disposal material.

## CHAPTER 01: PROJECT DESCRIPTION IN BRIEF

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Project Name	:	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 66 months
Date of Commencement	:	6 <sup>th</sup> December, 2022; Duration of 66 months
Total Routes	:	12
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

## CHAPTER 02: SALIENT FEATURES & MONTHLY PROGRESS

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### 2.1 PROGRESS OF BRWTP-S1A:

#### 2.1.1: Development and Maintenance Dredging Works:

##### Lot-2:

In October 2023, Lot-2 contractor dredged 902 m on Route 9 (Class III, length 80km, Titas River). From the month of March 2023 till October 2023, they have cumulatively dredged 3.071 km on Route 9. The progress is very poor. The main challenge is failing to provide continuous operation of dredgers due to frequent machinery breakdown. Besides, the Lot-2 contractor has completed surveying 26.8 km of 317 km of all routes. During this reporting period, a progress meeting was held at World Bank premises on 1<sup>st</sup> October, 2023 where the WB representatives including TTL, PIU, S1A and both the contractors participated, where the Lot-2 contractor assured that they will complete survey works on all routes by 31<sup>st</sup> October, 2023. A project coordination meeting was held on 16 October, 2023 with The World Bank, PIU, BRWTP S1A consultant & Contractor (Lot 02) at conference room of S1A (JPZ-DEMAs-JCL-JV) project office chaired by WB representative, Capt. Inderveer Solanki. In the meeting, a decision has been made that the S1A consultant will provide daily survey and dredging log sheet template so that the Lot contractor can submit the survey and dredging information on daily basis in order to expedite the dredging progress. The Lot-2 representatives have ensured that they will start their survey work on route 7 & 8 as soon as possible and they will also work on expediting the dredging work. In this reporting period, the S1A team has closely monitored the daily dredging and surveying sheets and submitted the weekly report to the Project Director.

##### Lot-3:

During the month of October, 2023, the Lot-3 contractors carry out 69 m of emergency dredging work on Route 21. Besides, they have done 128 km Hydrographic Baseline Survey on Route 12, 13, 13a, 16 and 21. Moreover, they did the maintenance surveys and environmental quality control activities on Route 16 and 21. During this reporting period, a progress meeting was held at World Bank premises on 1<sup>st</sup> October, 2023 where the WB representatives including TTL, PIU, S1A and both the contractors participated, where the Lot-3 contractor assured that they will complete survey works on all routes and submit the total dredged volume by 15<sup>th</sup> November, 2023.

#### 2.1.2: Environmental Quality Assessment:

The S1A team reviewed the environmental data of Route 9, 7 & 8 under Lot-2 and Route 15 & 16 and 21 under Lot-3, for the month of October, 2023 consisting of air, water, noise pollution levels, riverbed materials report, etc.

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**Table 1: Environmental Quality Assessment for October 2023 for Lot-2 and Lot-3**

Item	Parameter	Baseline of Lot-2 (February 2023)	Lot-2	Baseline of Lot-3 (February 2023)	Lot-3	S1A Remarks	Approved Limits (ECR 2023)
			Route 09		Route 16 and 21		
Air Quality (µg/m <sup>3</sup> )	SPM	129.62	155.29	165.12	59.89	No approved limit; air pollutants like NO <sub>2</sub> , SO <sub>2</sub> , SPM, etc. are the major constituents of automobile exhaust, may cause breathing discomfort for people with lungs asthma and heart disease when exposed to more than 100µg/m <sup>3</sup> for prolonged period	No approved limit
	PM10	62.23	77.48	72.15	30.54	Within the approved limit;	150 µg/m <sup>3</sup>
	PM2.5	29.37	55.83	47.25	21.56	Within the approved limit;	65µg/m <sup>3</sup>
	SO <sub>2</sub>	17.48	36.28	13.69	13.34	Within the approved limit	80µg/m <sup>3</sup>
	NO <sub>2</sub>	11.28	26.34	22.18	17.90	Within the approved limit	80µg/m <sup>3</sup>
	CO	1.1	0.5	1.5	0.7	Within the approved limit	5µg/m <sup>3</sup>
Noise Level (dB)	LEQ day	67.8	53.5	68.6	61.53	Within the approved limit	75dB(day)
	Lmax	81.3	65.2	84.4	79.67	Within the approved limit	75dB(day)
	Lmin	44.4	41.8	37.3	42.67	Within the approved limit	75dB(day)
Surface Water Quality	Temperature	21.2	34.5	22.1	23.2	Surface water temperature at Route 09 was higher than the approved level possibly due to several factors, like 1) the shallowness of the river; 2) and clearing of the water hyacinth due to the ongoing dredging; or 3) from decomposition of organic wastes; or 4) due to pollution from the effluents released from the nearby market, launch ghat; or 5) no or slow flowing water. At Route of Lot 3, the surface water temperature is within the limit due to the large volume of steadily flowing water. Moreover, the sources of pollution	20 - 30°C
	EC	315	130	300	280	No approved limit, but below 300 represents good water quality	No approved limit
	pH	7.25	7.63	7.89	8.07	Route 09 is Ok while Lot 3 is on the alkaline side as the river is influenced by tide due to salinity	6.5 - 8.5
	TDS	170	360	150	145	Within Limit	1000
	DO	4.7	6.3	6.2	6.2	Results from the water samples are within the limit	>5
	BOD <sub>5</sub>	11	4.8	0.4	0.6	Within Baseline Limit	<5
	TSS	87	182	93	42	Lot-3 seems within the Baseline limit but Lot-2 have increased in amount since the dredging is going on.	No approved limit
Riverbed sediment	Lead (Pb)	11.6	14.84	17.23	12.5	Lead content is higher in Route 09 samples; the sources for this element may be the markets on the both banks of the river. For Lot 3 within the baseline limit.	No approved limit under ECR 2023
	Cadmium (Cd)	0.082	0.08	0.017	0.063	Close to baseline limit for Lot-2. Lot-3 has higher cadmium contamination on Route 21 compared to the baseline. The possible reason may be that it's a ferry traffic route.	No approved limit under ECR 2023,
	Chromium (Cr)	13.29	14.74	21.88	11.30	Less or around Baseline Limit for both the Lots	No approved limit under ECR 2023
	Zinc (Zn)	32.58	28.42	92.36	19.20	Within Baseline Limit	No approved limit under ECR 2023
	Arsenic (As)	1.07	1.2	1.01	0.79	Arsenic content from results vary with the location	No approved limit under ECR 2023

**Table 2: Compliance Status for October 2023 for Lot-2**

Visual Monitoring Compliance								
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		
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 and intensive, repeated visits to establish an inventory of the floral and faunal species
Sediment Dispersion	Not measured	-	-	-	-	N	Contractors were notified to measure sediment plume on 1 <sup>st</sup> 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 case of erosion is observed	Dredger stopped and relocated	Dredger stopped and relocated; some protection measures taken	C	-	-	Stop dredging and relocate	Recommended to report to the authority and stop dredging
Hydrological Conditions	Surveyed prior to dredging	x	x	x	P	x	x	x
Drainage Congestion	No complaints received on congestion			-	P	-	No reports of any drainage congestion	Keep clear all drainage channels
River Traffic/Transport	No complains		No mitigation measure is required		P	-	Install river traffic and navigation-related sign boards	
Accidental Spillage	No reports yet		-		P	-	Log book to be maintained, in case of any incident, report to authority	
Sediment leakages from pipes and sediment disposal	No reports on any leakage	Maintain pipes	Pipes regularly checked	-	P	-	Stop dredging, fix the problem prior to resumption; report to authority	
Drinking water & sanitation			Toilet checklists need to be maintained on a regular basis	-	C	-	-	-
Safety of workers	Occupational safety		PPEs provided	-	-	P	Monitor use of PPEs	-
Waste management			Oil Cleaning clothes need to be disposed of in hazardous waste bins	-	C	-	Colored collection bins for organic and non-organic solid wastes; no wastes in the river	
Cultural and archeological Sites	Preservation of such sites		x	-	x	x	Stop dredging, report to the authorities	-
Waste water			-	-	-	P	-	-

**Table 3: Compliance Status for October 2023 for Lot-3**

Visual Monitoring Compliance								
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		
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 <sup>st</sup> 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 complaints received		Mitigation measures not required		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

### 2.1.3: Social and Resettlement Aspects:

In Lot-2 two dyke locations have been selected and in Lot-3 one dyke location has been selected. The GRM expert of S1A consultant is monitoring the protocols for reporting the GRM issues at different level in a structured way based on CEAP and Contractual responsibilities.

#### 2.1.3.1 Communication and Public Consultation:

The social and safeguard team have communicated with local people and conducted consultation meeting on a regular basis.

Sl. No.	Date	Meeting Agenda and Participants	Meeting Location
1	09 October, 2023	Consultation with local People regarding dyke broken and discussion on mitigation.	Route 21, Laharhat-Bheduria Route.
2	12 October, 2023	Discussion on Dyke selection and ongoing dredging work. Bancharampur Upazila Engineer, Chairman of Tezkhali, Dorikandi and Uzanchar union together with other elites of that area were present in the meeting	LGED office, Bancharampur Upazila Parishad Bhaban at Lot-2 site.
3	15 October, 2023	Meeting for receiving necessary documents from the land owner	Dyke 1 and Dyke 2 of River Route No.

**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**

		Mr. Salam Fakir.	21. Lot-3 site
4	18 October, 2023	Discussion with the local community to find out the land for selecting as Dyke	Bisnurampur, paschim para, Banchampur, Brahmanbaria.
5	20 October, 2023	Discussion with the local elites including Chairman, member of the area to find out the land for selecting as Dyke	Banchampur, Brahmanbaria.
6	21 October, 2023	Discussion with the local elites including Chairman, member of the area to find out the land for selecting as Dyke	Village Bakharnagar, Alok Bali Union, Solimganj, Banchampur
7	22 October, 2023	Meeting for receiving necessary documents from the land owner of the selected land for Dyke	Dyke no 1 and Dyke no 2 of the River Route 16, Patarhat at Lot-3 site
8	26 October, 2023	Discussion meeting with Tezkhali and Uzanchar Union Chairman and Upazila AC Land.	Banchampur Upazila
9	29 October, 2023	Discussion and meeting with Upazila officers regarding Dredging work.	Narsingdi Sadar and Raypur Upazila
10	31 October, 2023	Site inspections with S1A consultant team (Barishal) for newly constructed dyke no.08 (R21-D8) or disposal area.	River Route 21 (Laharhat-Bheduria)
		Meeting/Group discussion with contractor and local people and collect documents for new disposal area (regarding agreement issues, NID card, Khatiyon/land Papers etc.	
		Field visit and consultation with local people for finding new dyke or Disposal area for emergency dredging.	

### 2.1.3.2 ESHS, Worker Employment and OHS Status:

The S1A team assessed the ESHS situation, Worker Employment, and Working condition, Occupational Health and Safety (OHS) status during the reporting period. Considering safety of workers and the public during the dredging process data has been collected through field observation. Collected data has been illustrated in the table below.

**Table 4: ESHS Status at a Glance in October 2023**

ESHS Issues	Parameters	Lot-2	Lot-3
Occupational Health and Safety (OHS)	Set up a first aid clinic room, equipped with a medical treatment registration card for each employee.	First aid facilities available at project sites.	First aid facilities available at project sites.
	Kitchen sanitation and cleanness and Food Quality	Satisfactory	Satisfactory
	Sewage and wastewater discharge and Solid Waste Management	Partially Compliance	Partially Compliance
	Gas cylinder storage and maintenance	Maintained	Maintained
	Fire Extinguisher	Available	Available
	Safe Drinking Water	Accessible	Accessible
	Toilet facilities	Good	Good
Workers Condition and Employment situation	Total Employment (No.)	38	58
	Male Female Ratio	All employees are Male	No Female Employee
	Wage Status	Satisfactory	Satisfactory
	Force Labor/ Child Labor	Not Applicable in this month	Not Applicable in this month
Personal Protection Equipment (PPE) for all staff/workers working in the site.	Wearing of 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.	Available in site level. The consultant and contractors team monitors and motivate site personnel regarding the use of PPE.	Available in site level. The consultant and contractors team monitors and motivate site personnel regarding the use of PPE.
Traffic management	Provision for preventing accident including night time.	The procurement process is ongoing for the installation of Aids to navigation	The procurement process is ongoing for the installation of Aids to navigation
	Dredging sites clearly demarcated and protected to ensure community safety.	Demarcated	Demarcated

### 2.1.3.3 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 illicit sexual relationship with the local

inhabitants. 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.

#### 2.1.3.4 Grievance Redressal Mechanism (GRM):

Two Grievance Redressal Committees (GRC) have been developed in Lot-2 project area and another 02 (Two) GRCs have been developed in Lot-3 project area. Site/Local level GRC is structured for only land related issues and Contractor level GRC is structured for only Gender-Based Violence (GBV) issues in order to effectively resolve their feedback, concern, grievance, complaints and suggestions to the contractors by submitting their grievance through the proposed mechanism. Regular consultations are being conducted by the contractors with the supporting of S1A to inform local people about reporting mechanisms of grievance or suggestions if any. Grievance box has been installed at project office, dredging sites so that project affected people (PAPs), workers could drop their grievance letters. A signboard has also been set up near the project office providing a hotline number so that people could immediately contact if they have any grievance or suggestions. However, during the reporting period, no grievance has been recorded.

#### 2.1.4: Update information on Navigational Aids in October 2023

As per contract Agreement BRWTP-W1A-02 And BRWTP-W1A-03 the following Aids to navigation are to be installed along Inland Waterways Routes denoted by 3 & 4, 5, 6, 7 & 8, 9, 10 and 11 in Lot 02, contractor GULF COBLA-KARNAFULY JOINT VENTURE and routes 12, 13, 13a, 15 & 16, 17 and 21 in Lot 03, contractor DHARTI-BANGA JV under Bangladesh Regional Waterways Transport Project 1(BRWTP-1).

**Table 5: Required Navigational Aids:**

Inland Waterway Routes	Required Lighted Buoys/Beacons	Required Leading Line Beacons/Sector Lights/Racons	Required Unlighted Buoys/Beacons/PC Poles	Activities done so far
3&4	12 Number	08 Number	20 Number	In progress
05	15 Number	14 Number	40 Number	In progress
06	06 Number	02 Number	Nil	In progress
7&8	Nil	Nil	08 Number	In progress
09	Nil	Nil	12 Number	In progress
10	Nil	Nil	10 Number	In progress
11	Nil	Nil	10 Number	In progress
12	Nil	Nil	10 Number	In progress
13	Nil	Nil	18 Number	In progress
13 a	Nil	Nil	04 Number	In progress
15&16	Nil	Nil	10 Number	In progress
17	Nil	Nil	08 Number	In progress
21	06 Number	05 Number	25 Number	In progress

A good number of meeting & series of discourses with both the contractors on various dates were held to advise the representatives of contractors to expedite the progress on installation of Aids to Navigation along mentioned Inland Waterway routes. However, both the contractors ensured to accelerate the progress of the required installation jobs as mentioned above.

Latest project coordination meeting was held on 16 October,2023 with The World Bank, PIU, BRWTP S1A consultant & Contractor (Lot 02) at conference room of S1A (JPZ-DEMAS-JCL-JV) project office chaired by WB representative, Capt. Inderveer Solanki. To minimize the lead time, the procurement of Aids to Navigation may be allowed from any available source (Local/Foreign) by keeping appropriate standard/quality in mind as proposed/advised by Capt. Solanki in the meeting.

## 2.1.5: Field Activities of S1A Consultant in October 2023

**Table 6: Field Activity of BRWTP-S1A at Lot-2 Site**

Serial No	Date	Activity	Route name & Route number	Remarks
1	01.10.2023	Inspection of dyke 20 and dredging alignment.	Tejkhali Union, akanagor under Bancharampur Upozilla in Brahmanbaria district BRWTP-S1A Lot-2	
2	07.10.2023	Solimgonj Site visit for monitoring of BIWTA survey work.	Haider sir and Contractor representative Mr. Monjurul was visited the site.	
3	08.10.2023	BM installation for pre work Bathymetric Survey.	BRWTP-S1A, Route-09 Lot-2	
4	09.10.2023	Bathymetric Survey Work started by BIWTA.	BRWTP-S1A, Route-09 Lot-2	
5	10.10.2023	Bathymetric Survey Work ongoing by BIWTA.	BRWTP-S1A, Route-09 Lot-2	
6	11.10.2023	Bathymetric Survey Work ongoing by BIWTA.	BRWTP-S1A, Route-09 Lot-2	
7	12.10.2023	Bathymetric Survey Work completed in route 09 by BIWTA.	BRWTP-S1A, Route-09 Lot-2	
8	12.10.2023	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.	Titas River. BRWTP-S1A, Route-09 Lot-2	
9	13.10.2023	Bathymetric Survey Work started in route no. 7 and 8 by BIWTA.	Narshindi northern and southern approaches, route 7 and 8, Lot-2	
10	14.10.2023	Bathymetric Survey Work ongoing in route no. 7 and 8 by BIWTA.	Narshindi northern and southern approaches, route 7 and 8, Lot-2	
11	15.10.2023	Bathymetric Survey Work Completed in route no. 7 and 8 by BIWTA.	Narshindi northern and southern approaches, route 7 and 8, Lot-2	
12	16.10.2023	Bathymetric Survey Work completed by BIWTA.	BRWTP-S1A, Route-09 Lot-2	
13	20.10.2023	Inspection of dredging alignment.	BRWTP-S1A, Route-09 Lot-2	
14	24.10.2023	Inspection of dyke 11 and dredging alignment.	BRWTP-S1A, Route-09 Lot-2	
15	25.10.2023	Inspection of dyke 22 and dredging alignment.	BRWTP-S1A, Route-09 Lot-2	
16	26.10.2023	Inspection of dyke 21 and dredging alignment.	BRWTP-S1A, Route-09 Lot-2	

## 2.1.6: Progress and Coordination Meetings of S1A Consultant:

**Table 7: Field Activity of BRWTP-S1A at Lot-3 site**

Serial No.	Date	Activity	Route name & Route number	Remarks
1	09.10.2023	1. Site visit for finding new dyke or Disposal area for emergency dredging. 2. Site visit for old dyke broken area and consultation with local People.	Route name is Laharhat-Bheduria & Route number 21	Social field activity
2	13.10.2023	Hydrographic line Survey from Athazar to Alubazar	Route name is Alubazar-Athazar & Route number 13	
3	14.10.2023	Hydrographic line Survey from Athazar to Alubazar	Route name is Alubazar-Athazar & Route number 13	
4	15.10.2023	Hydrographic line Survey from Athazar to Alubazar	Route name is Alubazar-Athazar & Route number 13	
5	15.10.2023	Site visit for collection of NID card and Passport size picture etc papers from land owner	Route name is Laharhat-Bheduria & Route number 21	Social field activity
6	16.10.2023	Hydrographic line Survey from Athazar to Alubazar	Route name is Alubazar-Athazar & Route number 13	
7	17.10.2023	Hydrographic line Survey from Athazar to Alubazar	Route name is Alubazar-Athazar & Route number 13	
8	18.10.2023	Hydrographic line Survey from Athazar to Alubazar	Route name is Alubazar-Athazar & Route number 13	
9	19.10.2023	Hydrographic line Survey from Athazar to Alubazar	Route name is Alubazar-Athazar & Route number 13	
10	20.10.2023	Hydrographic Details Survey from Alubazar ghat to Horina launch ghat	Route name is Alubazar-Athazar & Route number 13	
11	21.10.2023	Hydrographic Details Survey from Alubazar ghat to Horina launch ghat	Route name is Alubazar-Athazar & Route number 13	
12	22.10.2023	Hydrographic Details Survey from Alubazar ghat to Horina launch ghat	Route name is Alubazar-Athazar & Route number 13	
13	22.10.2023	Focus Group Meeting and Consultation with local People for at Patarhat ghat area	Route name is Patarhat-bheduria & Route number 16	Social field activity
14	23.10.2023	Hydrographic line Survey at looping route inside char Hijla	Route name is looping route inside char Hijla & Route number 13a	
15	24.10.2023	Hydrographic line Survey at looping route inside char Hijla	Route name is looping route inside char Hijla & Route number 13a	
16	25.10.2023	Hydrographic line Survey from Patarhat to bheduria	Route name is Patarhat-bheduria & Route number 16	
17	26.10.2023	Hydrographic line Survey from Patarhat to bheduria	Route name is Patarhat-bheduria & Route number 16	
18	27.10.2023	Hydrographic line Survey from Patarhat to Elisha ferry ghat	Route name is Patarhat- Elisha ferry ghat & Route number 15	

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

Serial No.	Date	Activity	Route name & Route number	Remarks
19	28.10.2023	Hydrographic line Survey at looping route inside char Hijla	Route name is looping route inside char Hijla & Route number 13a	
20	28.10.2023	Site supervision work & inspections for starting dredging work at Bheduria ferry ghat area.	Route name is Laharhat-Bheduria & Route number 21	
21	29.10.2023	Hydrographic line Survey at bheduria to route 14(north Hat hazar)	Route name is bheduria to route 14(north Hat hazar)& Route number 17	
22	30.10.2023	Hydrographic Details Survey from Patarhat to bheduria	Route name is Patarhat-bheduria & Route number 16	
23	30.10.2023	Site supervision work/ inspections of dredging work at Bheduria ferry ghat area.	Route name is Laharhat-Bheduria & Route number 21	
24	31.10.2023	Hydrographic Details Survey from Patarhat to bheduria	Route name is Patarhat-bheduria & Route number 16	
25	31.10.2023	<p>1. Site inspections with S1A consultant team (Barishal) for newly construction dyke no.08(R21-D8) or disposal area.</p> <p>2. Meeting/Group discussion with contractor and local people in Association with this new disposal area regarding NID card, Khatiyon/land Papers etc. agreement issues.</p> <p>2. Also finding new another one dyke or Disposal area for emergency dredging.</p>	Route name is Laharhat-Bheduria & Route number 21	Social field activity

**Table 8: Interaction with Client/Contractors and other stakeholder (October, 2023)**

SN	Date	Venue	Meeting Agenda	Participants
1	01 October, 2023	Conference Room, World Bank, Agargaon, Dhaka	WB mission meeting on finding the gaps and reviewing updated Status of the BRWTP -1 Project. S1A present a presentation at the meeting in presence of TTL	Representatives from the World Bank, PIU, S1A, Contractors of Lot-2 and Lot-3. And other consultants from S17, S12/3, S12/2 were present in the meeting
2	10 October, 2023	Conference Room, BIWTA, Motijheel, Dhaka	Consultation Workshop	BIWTA, PIU, S1A, Lot-2 and Lot-3 Contractors
3	16 October, 2023	Meeting Room of S1A (JPZ-DEMAs-JCL JV) project office	<p>The agenda of the meeting were as follows:</p> <p>Reporting Frequency</p> <p>Addressing the bottlenecks of dredging activities in Lot-2.</p> <p>Expediting the survey work</p> <p>Disposal Area Plan</p> <p>Installation of Navigational Aids.</p>	<p>The World Bank, PIU, BRWTP-S1A Consultant and LOT-2 Contractor</p> <p>The meeting was chaired by WB representative, Capt. Inderveer Solanki.</p>

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

### 2.2.1 Development and Maintenance Dredging Works:

In October 2023, Lot-2 contractor dredged 902 m on Route 9 (Class III, length 80km, Titas River). From the month of March 2023 till October 2023, they have cumulatively dredged 3.071 km on Route 9. The Lot-2 contractor has mobilized a new dredger named Karnafuly-05 to expedite their dredging activities on Route 9.

The Lot-2 contractor has conducted 5.8 km Bathymetric Baseline Survey on Route 7 & 8 and 13 km Bathymetric Baseline Survey on Route 9.

**Table 9: Updated Dredging Work at a glance in October 2023 of Lot 2**

Sl No	Dredger Name	Time Period	Route No. 9 and Class	Place	Chainage	Least Available Depth	Cutting Length (m)	Cutting Volume
01.	Karnafuly-07	01 to 31 October	Class-III	Nilukhi	CH03+824 to CH03+845, CH05+080 to CH04+816 and CH05+538 to CH05+654	1.9 m	401	14834.925 m <sup>3</sup>
02.	Karnafuly-03	01 to 31 October	Class-III	Akanagar	CH05+505 to CH 05+538 and 06+734 to 06+875		174	7835.544 m <sup>3</sup>
03.	Karnafuly-05	01 to 31 October	Class-III	Imamnagar	CH04+536 to 04+816 and 08+006 to 08+053		327	11748.727 m <sup>3</sup>

#### 2.2.1.1 Information on Disposal Areas October 2023:

Dyke 11, 18, 21 and 22 of Route 9 has been used for the disposal of dredge material during this reporting period.

Disposal Point	District	Upazila	Village /Mouza	Qty (Ha)	Land Type	Chainage	Easting	Northing	Location w.r.t Stream	Present Status
R09-D11	Brahmanbaria	Bancharampur	Akanogor	1.0138	Private	4+600	280049	2637334	Right	14% filled
R09-D18	Brahmanbaria	Bancharampur	Akanogor	1.0126	Private	5+100	280007	2637221	Right	35% filled
R09-D21	Brahmanbaria	Bancharampur	Imamnagar	0.2275	Private	4+500	280231	2638149	Right	9% filled
R09-D22	Brahmanbaria	Bancharampur	Bahirachor	0.2178	Private	8+000	281538	2637286	Right	18% filled

### 2.2.2 Social and Resettlement Aspects:

#### 2.2.2.1 Land Acquisition/Requisition/Good Faith Agreement/Charity

At present **18** agreements are on process. Most of the places people have willingly agreed to allow using their lands. General people of the project sites can get the news of river dredging, dredged materials dumping and good faith agreements through several consultation meetings with local people in local Bazars, Union Council, villages and the local Schools. Progress of Dykes and Good Faith Agreements during this reporting period of Lot-2 is illustrated in the following tables:

**Table 10: 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	
20	9	Md Jshim Uddin. NID: 7798370685 Mbl: 01717531207	Village:Bishnurampur Union: Tejkhali Upazila:Bancharampur District: Brahman Baria	Mouza: 1298/1418, Bishnurampur Khatian No - 11 JL No 43	69	Agriculture land (Two Crops)	Under Processing
22	9	Md. Monirul Islam. NID: 8672153577	Village: Aka Nagar Upazila: Bancharampur	Mouza No: 613/857, Bahir Char Khatian No: 556 J L No 41	86	Agriculture land (Two Crops)	Under Processing
23	9	Land Owner Name: (1) Alamgir Hossain (ALAMGIR HOSSAIN NID, 197812104880000 39 Mobile No: 01741735087 Father (2) Md. Mongal Mia Mother: Rabia Begum.	Union: Herchar Upazilla: Tezkhali District: Bancharampur	Mouza: 821/621/711/62 2/624/810/1070/ 623/626/710/71 1/1179, Bahirchar Khatian No. 860/380 JL No. 41	118	Agriculture land (Two Crops)	Under Processing
24	9	Land Owner Name Aminul Islam (Liton) Gong Mobile No. 01310822838 NID, 9117405796	Village: Bishnurampur Union: Tejkhali Upazila District: Bancharampur	Mouza No. 1886/1888, Bishnurampur Khatian No: 92 JL No: 40	120	Agriculture land (Two Crops)	Under Processing

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

### 2.3.1 Development and Maintenance Dredging Works:

During the month of October, 2023, the Lot-3 contractor carry out 69 m of emergency dredging work on Route 21. Besides, they have done 128 km Hydrographic Baseline Survey on Route 12, 13, 13a, 16 and 21. Moreover, they did the maintenance surveys and environmental quality control activities on Route 16 and 21.

Sl No	Dredger Name	Time Period	Route No. 9 and Class	Place	Chainage	Least Available Depth	Cutting Length (m)	Cutting Volume
01.	Banga Padma	01 to 31 October	Class-I	Bheduria	08+569 to 08+550, 08+550 to 08+528 and 08+528 to 08+500	4	69	5512 m <sup>3</sup>

### 2.3.1.1 Information on Disposal Areas October 2023:

Dyke 8 of Route 21 has been used for the disposal of dredge material during this reporting period.

Disposal Point	District	Upazila	Village /Mouza	Qty (Ha)	Land Type	Chainage	Easting	Northing	Location w.r.t Stream	Present Status
R21-D08	Bhola	Bheduria	Bheduria	1. 6218	Private	08+500	249789	2513089	Left	5% filled

### 2.3.2 Social and Resettlement Aspects:

At present 8 agreements are on process. Most of the places people have willingly agreed to allow using their lands. General people of the project sites can get the news of river dredging, dredged materials dumping and good faith agreements through several consultation meetings with local people in local Bazzars, Union Council, villages and the local Schools.

Dyke No.	Route No	Land Owner		Land			Good Faith Agreement
		Name and NID	Address	Description	Quantity (Decimal)	Quality of Land	
08	21	Data to be collected	Data to be collected	Data to be collected	405	Agriculture land (Two Crops)	Under Processing

## CHAPTER 03:

### ACHIEVEMENT OF LAST MONTH PLAN AND NEXT MONTH PLAN

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#### 3.1 ACHIEVEMENT OF LAST MONTH:

➤ **S1A**

- a) Submitted Monthly Progress Report of September 2023
- b) Provided Daily Survey and Dredging Monitoring Form to the Lot-2 and Lot-3 contractors.
- c) Submitted two weekly reports of survey and dredging progress of both Lot-2 and Lot-3 contractors.
- d) Conducted Supervision and Monitoring of Dredging activities on Route 9 of Lot-2, Route 21 of Lot-3 on daily basis and related ESHS and GRM activities of Lot-2 and Lot-3

➤ **Lot-2**

- a) Completed 902 m of dredging on Route 9, cumulative 3.071 km since March 2023, which is 16.3% dredging progress on Route 9.
- b) Conducted 5.8 km Bathymetric Line Survey on Route 7 & 8.
- c) Related Environmental, Social and GRM Activities have been conducted.

➤ **Lot-3**

- a) Conducted 128 km Bathymetric Line Survey on Route 12, 13, 13a, 16 and 21.
- b) Completed 69 m of emergency dredging on Route 21
- c) Related Environmental, Social and GRM Activities have been conducted.

#### 3.2 NEXT MONTH PLAN:

➤ **S1A**

- a) Routine Survey on Route 3 & 4, 10
- b) Supervision and Monitoring of Surveying, dredging activities, ESHS and GRM activities of Lot-2 and Lot-3 as mentioned below.
- c) Expediting navigational aid installation work for Lot-2 and Lot-3 contractors.

➤ **Lot-2**

- a) Carrying out all hydro and topographic survey for Route 3 & 4, 6, 10 and 11. Submission date on or before 13<sup>th</sup> November, 2023.
- a) Checking and establishment of horizontal and vertical control points, installation of water level gauging stations, data processing, analysis, fixation of dredging alignment, channel design and volume calculation. Submission date on or before 13<sup>th</sup> November.
- b) Dredging work on Route 9, 7 & 8
- c) Required Related Environmental, Social and GRM Activities

➤ **Lot-3**

- b) Carrying out all hydro and topographic survey for Route 15 and 17. Submission date on or before 13<sup>th</sup> November.
  - c) Checking and establishment of horizontal and vertical control points, data processing, analysis, fixation of dredging alignment, channel design and volume calculation. Submission date on or before 13<sup>th</sup> November.
  - d) Dredging work on Route 21, 13 and 13a
  - e) Required Related Environmental, Social and GRM Activities.
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## CHAPTER 04: CONCLUSION AND/OR RECOMMENDATIONS

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The Lot-2 contractors dredging activities is falling far behind the schedule. Out of 6 routes they have started working on 1 route which is Route 9. The hydrographic and topographic survey progress is at the beginning level. They surveyed only 26.8 km out of 317 km for all the routes. The Phase-I (First 18 months) will end on May 5, 2024. The Lot-2 contractor need to submit their work plan immediately addressing their remaining work within the stipulated time of Phase-I.

Both the Lot-2 and Lot-3 contractors need to expedite the installation of navigational aids so that they complete the work by the end of Phase-I (May 5, 2024).

During this reporting period, several progress and coordination meetings have been held between the WB representatives, PIU, S1A and contractors. As a result, the bottlenecks of surveying and dredging activities have been identified and both the S1A and Contractors are trying to work on that to mitigate the gaps and challenges.

Lastly, the Lot-2 and Lot-3 contractors need to assess the dredged volume for all routes based on their survey.

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## CHAPTER 05: ANNEXURE

### ANNEX 01: Project location and River Boundary

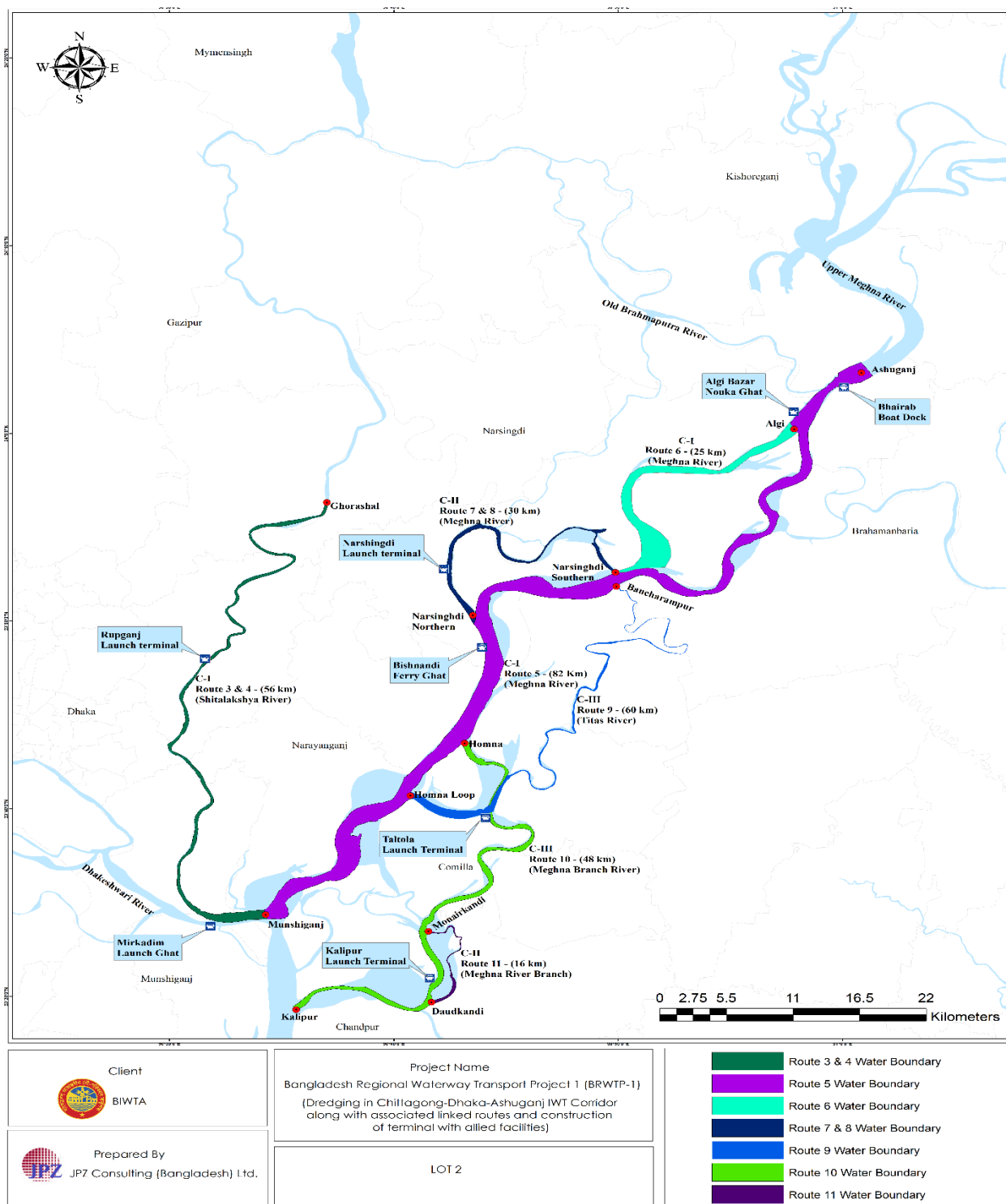


Figure 1: Project Location (with route) of BRWTP-1 Project, LOT-2

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

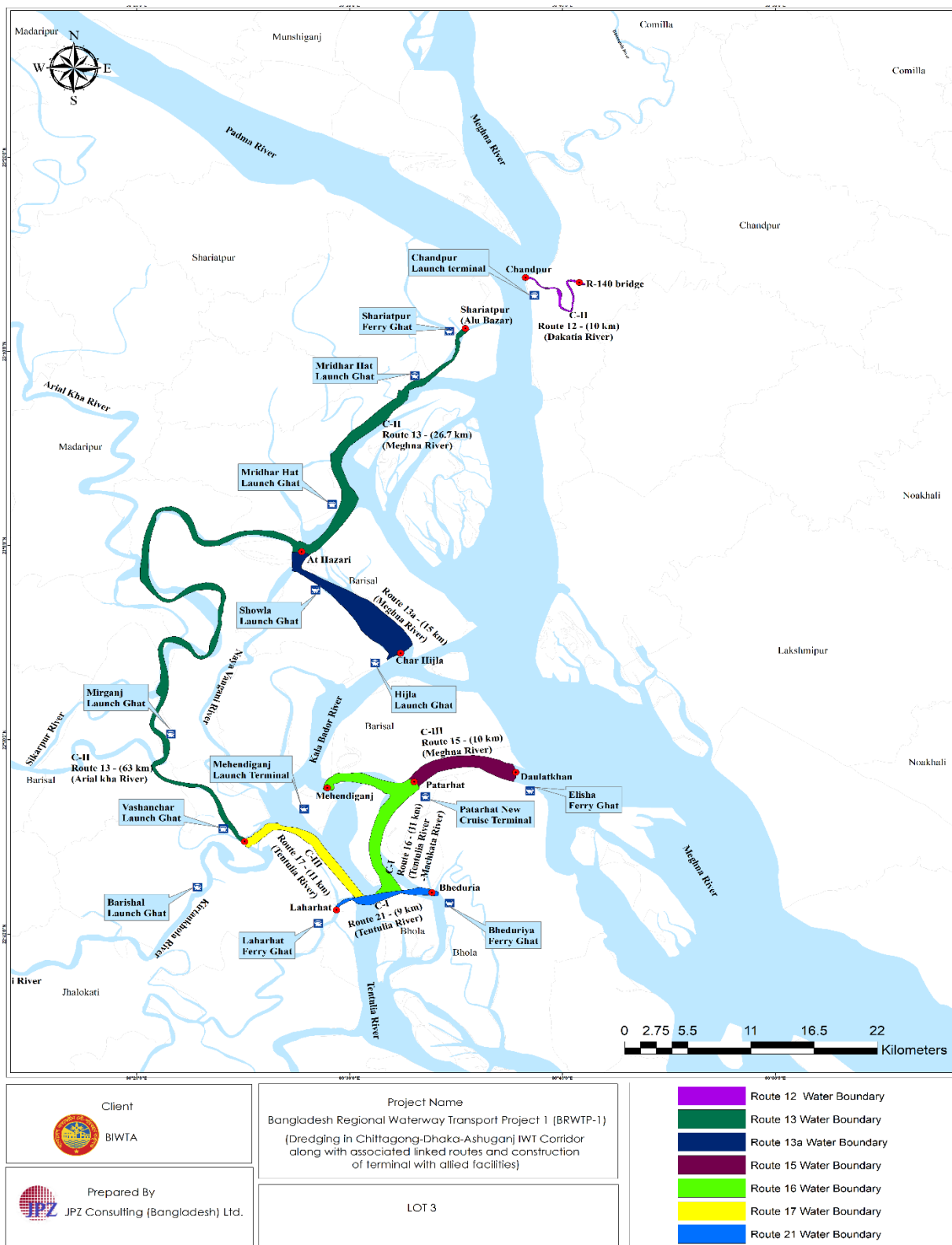


Figure 2: Project Location (with route) of BRWTP-1 Project, LOT-3

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

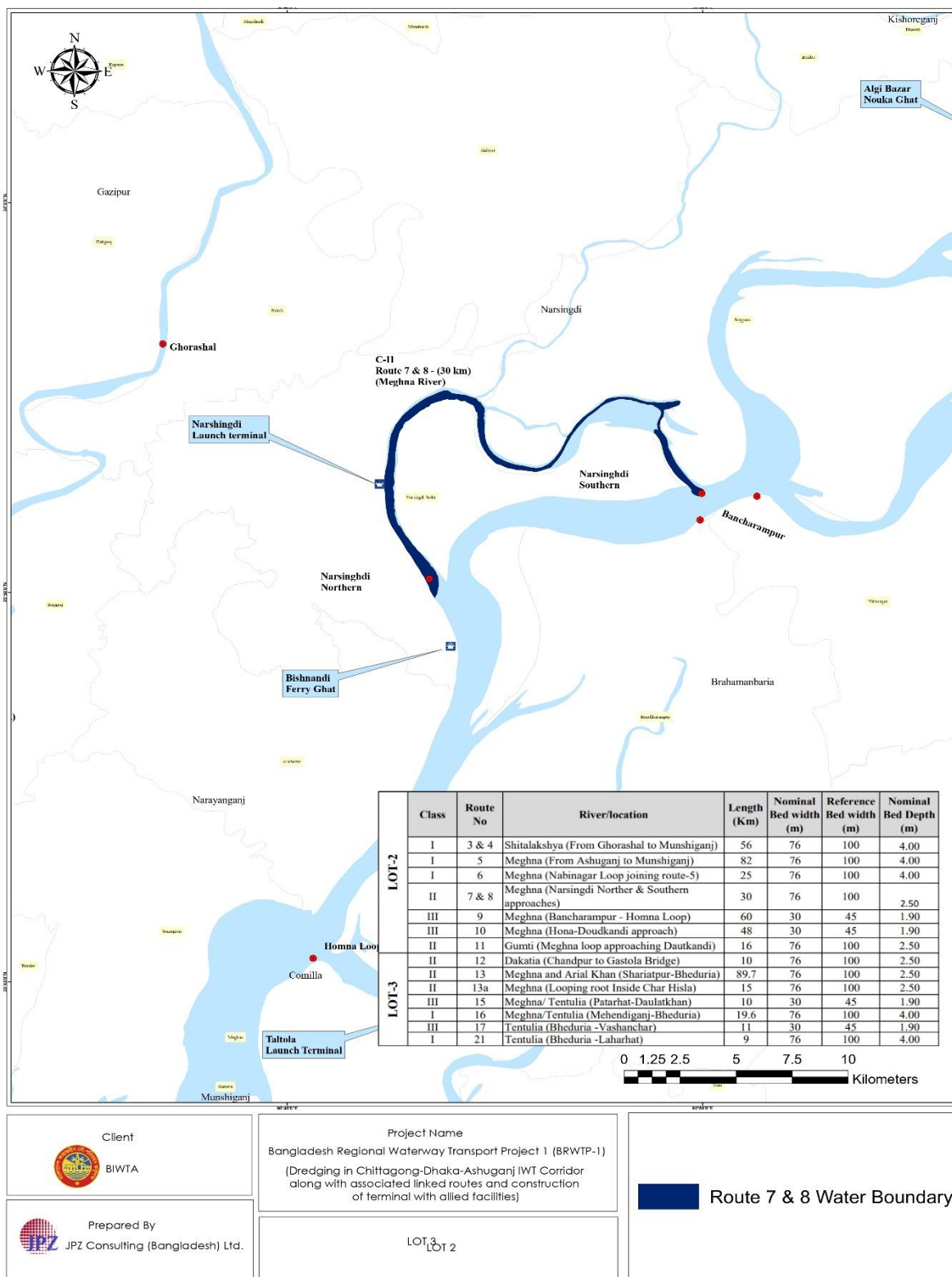


Figure 3: Route 7 & 8 Water Boundary

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

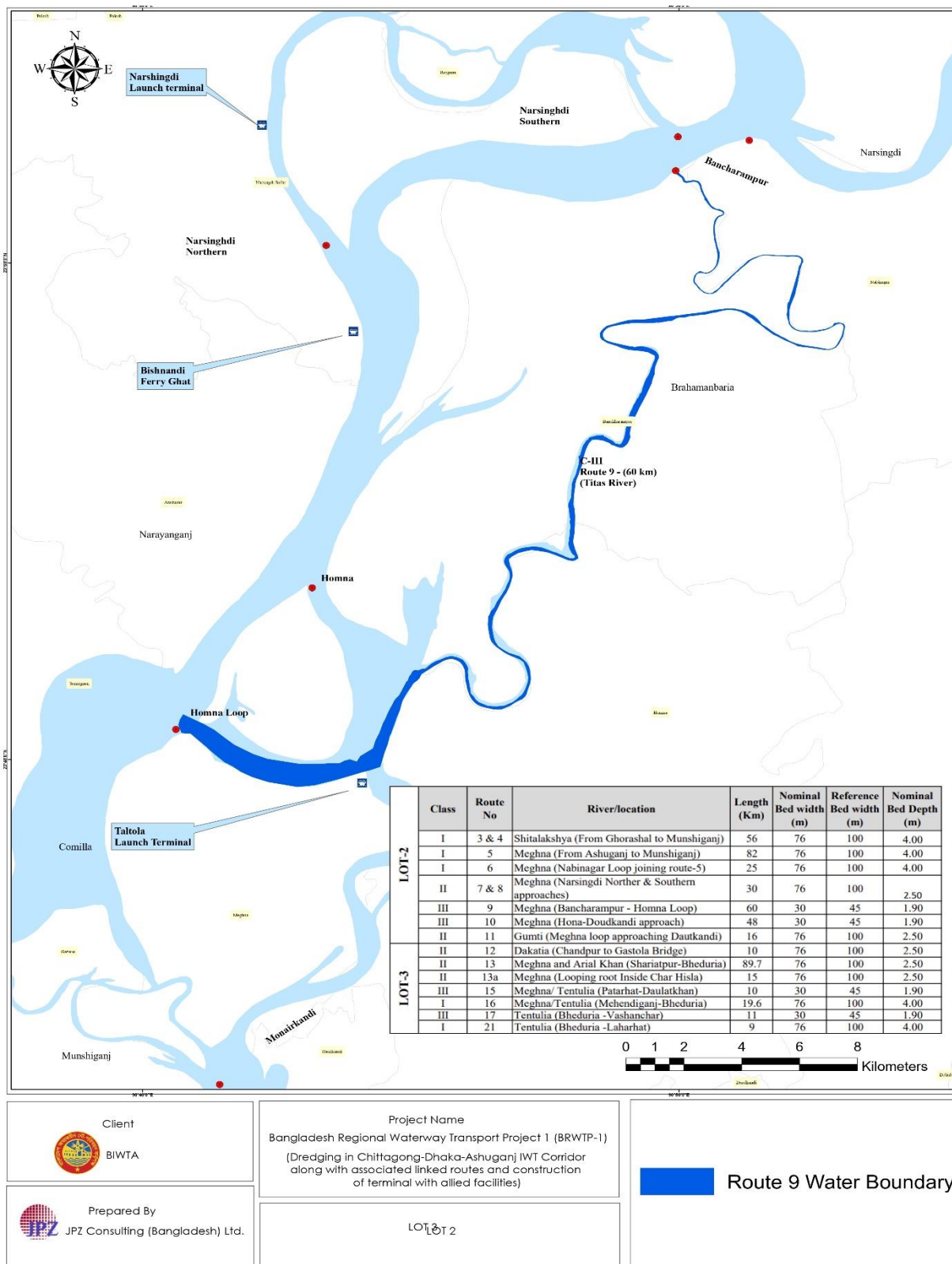


Figure 4: Route 9 Water Boundary

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

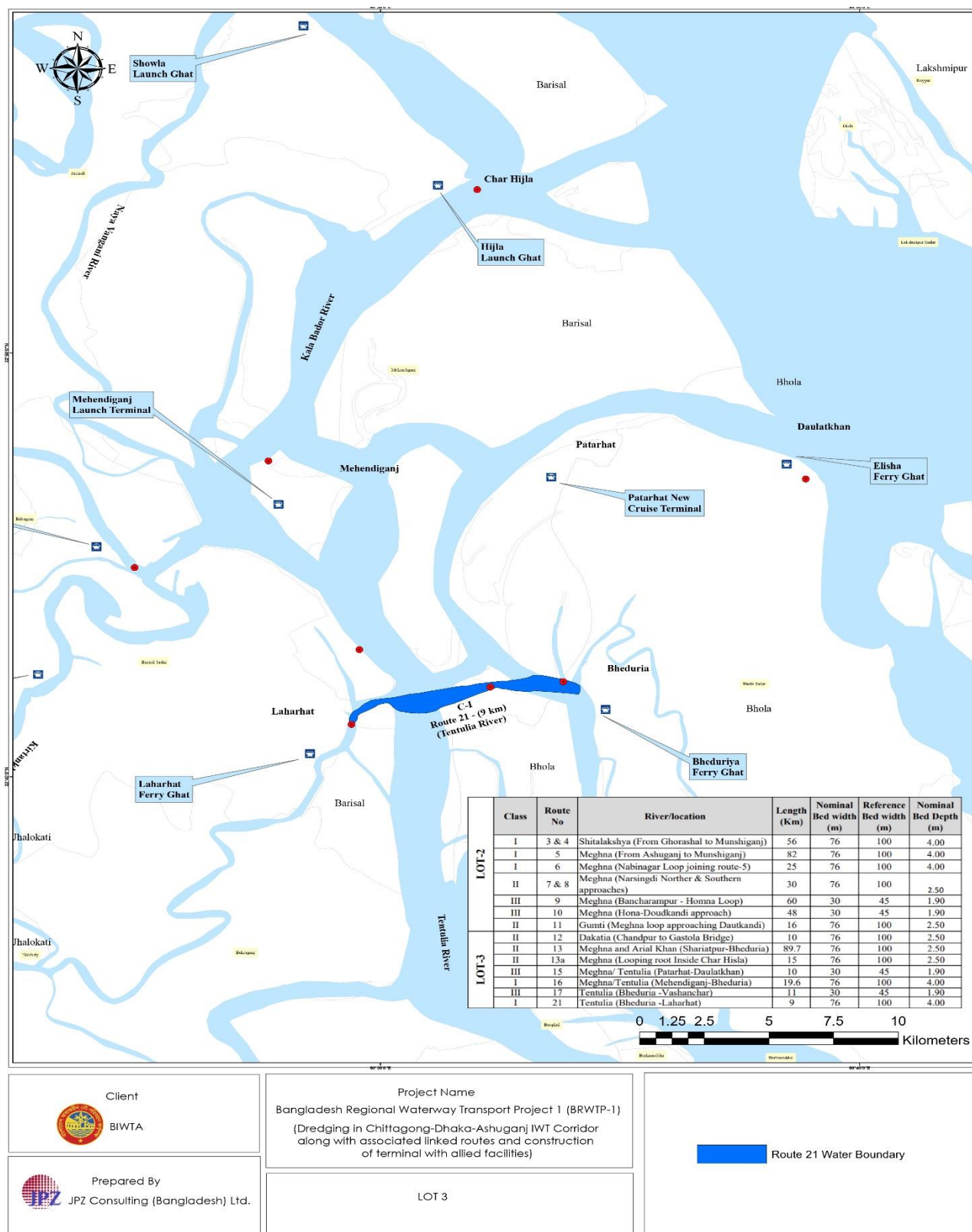


Figure 6: Route 21 Water Boundary

ANNEX 02:

Photos: Communication & Consultation, Meetings, Survey and Dredging Work (October 2023)



Figure 7: S1A presentation at WB mission meeting on 10 October; Meeting at BIWTA Conference room on 10 October; Meeting with WB at BRWTP-S1A conference room on 16 October. Below: Consultation with Local Government Representatives.

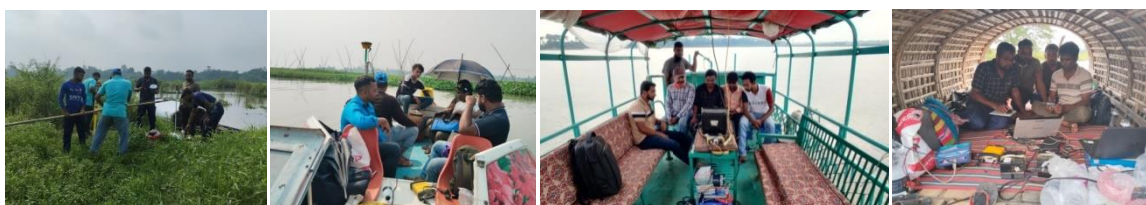


Figure 8: RTK base installed from Bancharampur-Homna loop, route-09, Lot-2; pre-work survey by single beam from Bancharampur-Homna loop, route-09, Lot-2; Hydrographic pre-Survey work is on progress from At hazar-alubazar, Route 13, Lot-3; pre-work survey by single beam from Narsingdhi Northern and Southern Approaches, route- 7&8, Lot-2 (From Left to Right).



Figure 9: Solimganj site visit with-BIWTA survey team, JPZ consultant and Karnafuly- Gulf Cobla (Lot-2) contractor's representatives at Route- 09 on 07 October, 2023.

ANNEX 03:  
Checklists of October 2023

Lot-2:

Checklist Items		Dredging Activity			Comments/Compliance
		Daily	Monthly	When and As Required	
1	Gauge reading & Water level (WL)	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	Average water level is 2.063 m
2	Connectivity with BM & TBM	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	1. Solimgong bridge to Homna loop at Route 09 2. Narsingdi Northern and Southern approach at Route 07 and 08
3	Study Hydrographic Chart	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	
4	Fixing Cutting Depth respect to existing WL as per design depth	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	Average cutting depth is 1.536 m
5	Checking Dredging Alignment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	
6	Checking Dredged Activities as below;				
a	Dredging Hours	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	
b	Cutting Length	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	Total cutting length 3,071 m
c	Cutting Depth	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	Average cutting depth is 1.536 m
d	Cutting Width	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	25 m
e	Dredged Volume	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	Total volume 1,36,228.213m3
7	Supervising Dredged Material Disposal Area whether the Dykes are designed as per Design	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	
8	Supervising Dredged Material Disposal Area whether the Dykes are capable to resist the pressure of disposed materials	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	
9	Checking outlet of the compar	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	
10	Check whether the dykes are being constructed at safe distance from river bank	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	
11	Check construction of the pipe line whether there is any leakage in the Joints of Floating Pipe/Shore pipe lines	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	
12	Check whether dredging work exacting Keeping Safety distance of River side installations like	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	
13	Check Survey Activities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	Pre-survey by BIWTA dated 8.10.2023 to 16.10.2023

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

Factors	Checklist Items		Dredging Activity			Comments/Compliance
			Daily	Monthly	Quarterly	
1. Permits and Explanation	1	EIA and Environmental Permits	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	2	Explanation to the Local Stakeholders	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	3	Signboards, Notice Boards	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
2. Physical Environmental Parameters Monitoring	1	Air Quality	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/>	<input type="radio"/>	Supervised in 12 October at solingonj site.
	2	Surface Water Quality	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/>	<input type="radio"/>	Supervised in 12 October at solingonj site.
	3	Solid Wastes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	4	Liquid Wastes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	5	Soil Contamination	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	6	Noise and Vibration	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/>	<input type="radio"/>	Supervised in 12 October at solingonj site.
	7	Underwater Noise	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/>	<input type="radio"/>	Supervised in 12 October at solingonj site.
	8	Odor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	9	Riverbed Sediment	<input type="radio"/>	<input type="radio"/> <input checked="" type="checkbox"/>	<input type="radio"/>	Supervised in 12 October at solingonj site.
	10	Groundwater	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
3. Natural Environment	1	Protected Areas	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	2	Habitat Type	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	3	Hydrology	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	4	Topography and Geology	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	5	Dolphin Observation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	6	Fish Catch Examination	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	7	Flora (Aquatic & Terrestrial)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	8	Benthos (Micro & Macro)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	9	Phyto- & Zoo-planktons	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
4. Social Environment	1	Resettlement	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	2	Living and Livelihood	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	3	Heritage	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	4	Landscape	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	5	Ethnic Minorities and Indigenous Peoples	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5. Occupational Health Safety	1	Work Permit/Contract	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	2	Daily Toolbox Meeting - OHS	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	3	Working Conditions				
	4	Impact/Precaution during Dredging	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	5	Accident Prevention Measures	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	6	Working Condition	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	7	Accommodation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	8	Personal Protection Equipment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	9	Drinking Water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	10	Sanitary Condition	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
6. Dredged Material Disposal Area	1	Agreement with Land Owner	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	2	Land Use Type	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	3	Dyke Design Approval	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	4	Dyke Setback Distance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	5	Disposal Area Dyke Height	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	6	Dyke Strengthened/Material Used*	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
7. Dredger	1	Carbon Emission	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	2	Leakage	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	3	Oil Spill	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	4	Onboard Waste Management	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	5	Noise and Vibration	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

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

SI no.	Factor			Checklist Items	Dredging Activity			Comment/Compliance
					Daily	Monthly	Quarterly	
1	Legal and Regulatory Compliance	1		GRM clearly communicated to all stakeholders.	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	There are a GRM committee with 5 persons here.
		2		Contact details for lodging grievance easily accessible.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		3		The mechanism align with World Bank's social and environmental safeguard policies.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	There are available safeguard here. Monitoring and evaluation is available in monthly.
2	Community Engagement	1		Information about the river dredging project, its purpose and potential impacts readily available.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
		2		Consultations been conducted with local communities, dredging contractors to gather their input on the GRM design.	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
		3		The preferences and cultural sensitivities of the affected communities taken into consideration.	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
3	Clear Grievance Channels	1		The multiple accessible channels available for stakeholders to submit grievances. (e.g., toll-free hotline, local offices, online platform).	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		2		Information about these channels clearly communicated to all stakeholders in local languages.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
4	Processing of GFA (Good Faith Agreement)	1		Dyke/Land selection survey	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Survey in every week.
		2		Opinion meeting with land owner along with inform to the contractor and SIA team for justifying land as dyke.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Survey in 15 days a month.
		3		Documentation collection.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Collection the document 15 days a month.
		4		Preparation of GFA collection	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
		5		Arrange contract/signing meeting & will be submitted to SIA H/O	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
		6		Send the all documents to the PIU for approval.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
5	Constitution of GRM Committee	1		Preparation of GRM Committee Constitution	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
6	Establish a Complain Box	1		Nos. of Feedback, concerned, suggestions and complain letters.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	There are 3 complain box in site. One box is in office, one box in houseboat and other is
7	Establish a Signboard	1		The size (5/15) of signboard will according the BOQ	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	There is a signboard in front of office.
		2		Name, Mobile number and email of the focal person will be included in the signboard.	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	There is a signboard in site beside (5/15) signboard.
8	Three tiers of the GRM Committee will be formed	1		Local level [In a five (5) members committee meeting Three (3) members participation will be the quorum]	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
		2		Port level [In a five (5) members committee meeting Three (3) members participation will be the quorum]	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
		3		Project level [In a five (5) members committee meeting Three (3) members participation will be the quorum]	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
7	Capacity Building	1		Project staffs and local institutions have received training on the grievance redress mechanism and its operation.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		2		There is an effort to enhance the capacity of stakeholders to engage effectively in the process.	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
8	Leaflet/ Brochure	1		Leaflet/ Brochure will be published for dissemination. The leaflets should be available in the website of BWFLA and the SIA website.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	There is no list in the site.
9	Monitoring and Reporting	1		The regular reports generated to document the number, nature, and resolution of grievances.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
10	Language and Accessibility	1		Grievance-related materials and communications provided in languages understood by the affected communities.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		2		Provisions in place to accommodate the needs of differently abled individuals.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
11	Budget and Resources	1		Allocate resources, including budget and personnel, to support the implementation of the GRM	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	There are no support available here.
		2		Ensure that the resources are sufficient to handle various types and volumes of grievances.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
12	Social Consultation	1		Local Community	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		2		Land Owner	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	In every week twice or three times.
		3		Local Government Authority	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	

Lot-3:

Checklist Items		Dredging Activity			Comments/Compliance
		Daily	Monthly	When and As Required	
1	Gauge reading & Water level (WL)	○	○	✓	
2	Connectivity with BM & TBM	○	○	✓	
3	Study Hydrographic Chart	○	○	✓	
4	Fixing Cutting Depth respect to existing WL as per design depth	○	○	✓	
5	Checking Dredging Alignment	○	○	✓	
6	Checking Dredged Activities as below;				Dredged Activities for the month of October, 2023
	a Dredging Hours	○	✓	○	Total Dredging Hours 23.90
	b Cutting Length	○	✓	○	Total length 98.29 m
	c Cutting Depth	○	✓	○	Cutting Depth 1.8m (average)
	d Cutting Width	○	✓	○	Cutting Width 32.5m
	e Dredged Volume	○	✓	○	Total Dredged Volume 5511.5 cum
7	Supervising Dredged Material Disposal Area whether the Dykes are designed as per Design	○	✓	○	Supervised together with dredging experts during the new dyke construction and it is observed that Dykes are maintained as per Design
8	Supervising Dredged Material Disposal Area whether the Dykes are capable to resist the pressure of disposed materials	○	✓	○	Its observed that new dyke boundary wall maintained proper design thickness, slope, layer of compaction, 12m/15m safe distance with bamboo strip protection at river side slope.
9	Checking outlet of the compartment	○	✓	○	Using 5hrs of outlet of this compartment
10	Check whether the dykes are being constructed at safe distance from river bank	○	✓	○	12 to 15 meter safe distance from the river bank
11	Check construction of the pipe line whether there is any leakage in the Joints of Floating Pipe/Shore pipe lines	○	✓	○	No leakage observed in the Joints of Floating Pipe/Shore pipe lines
12	Check whether dredging work exacting Keeping Safety distance of River side installations like Road/houses/buiding.	○	✓	○	100m from safe distance from Road/Houses/building and 12m-15m safe distance maintained from river Bank
13	Check Survey Activities	○	✓	○	Route wise Hydrographic Pre survey (line and details survey) work done on dated from 13.10.2023 to 01.11.2023 for lot 3 Route number 12, 13, 13a, 15, 16 & 17

**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**

Factors	Checklist Items		Dredging Activity			Comments/Compliance
			Daily	Monthly	Quarterly	
1. Permits and Explanation	1	EIA and Environmental Permits	○	○	√	
	2	Explanation to the Local Stakeholders	○	○	√	
	3	Signboards, Notice Boards	○	○	√	
2. Physical Environmental Parameters Monitoring	1	Air Quality	○	√	○	Test done Route no.15, 16 & 17 for the month of October,2023
	2	Surface Water Quality	○	√	○	
	3	Solid Wastes	○	√	○	
	4	Liquid Wastes	○	√	○	
	5	Soil Contamination	○	√	○	
	6	Noise and Vibration	○	√	○	
	7	Underwater Noise	○	√	○	
	8	Odor	○	√	○	
	9	Riverbed Sediment	○	√	○	
	10	Groundwater	○	√	○	
3. Natural Environment	1	Protected Areas	○	√	○	Route no.15, 16 & 17
	2	Habitat Type	○	√	○	Route no.15, 16 & 17
	3	Hydrology	○	√	○	Route no.15, 16 & 17
	4	Topography and Geology	○	√	○	Route no.15, 16 & 17
	5	Dolphin Observation	○	√	○	Route no.15, 16 & 17
	6	Fish Catch Examination	○	√	○	Route no.15, 16 & 17
	7	Flora (Aquatic & Terrestrial)	○	√	○	Route no.15, 16 & 17
	8	Benthos (Micro & Macro)	○	√	○	Route no.15, 16 & 17
	9	Phyto- & Zoo-planktons	○	√	○	Route no.15, 16 & 18
4. Social Environment	1	Resettlement	○	○	√	
	2	Living and Livelihood	○	○	√	
	3	Heritage	○	○	√	
	4	Landscape	○	○	√	
	5	Ethnic Minorities and Indigenous Peoples	○	○	√	
5. Occupational Health Safety	1	Work Permit/Contract	○	○	√	
	2	Daily Toolbox Meeting - OHS	○	○	√	
	3	Working Conditions	○	√	○	Fair
	4	Impact/Precaution during Dredging	○	○	√	Not any major issue observed
	5	Accident Prevention Measures	○	√	○	Contractors ESHS team visiting site and concerning all the Manpower
	6	Working Condition	√	○	○	Fair
	7	Accommodation	√	○	○	House Boat
	8	Personal Protection Equipment	√	○	○	Safety helmet, Safety vest, safety shoes, Hand gloves etc observed at site.
	9	Drinking Water	√	○	○	Freshwater daily collect from tube well
	10	Sanitary Condition	√	○	○	Good arrangement kept in House boat
6. Dredged Material Disposal Area	1	Agreement with Land Owner	○	○	√	
	2	Land Use Type	○	√	○	once or twice cultivated land in a year
	3	Dyke Design Approval	○	√	○	New dyke at Route no.21 named R21-D8
	4	Dyke Setback Distance	○	√	○	12m to 15m distance from the river bank
	5	Disposal Area Dyke Height	○	√	○	2.5m
	6	Dyke Strengthened/Material Used*	○	○	√	When required then used
7. Dredger	1	Carbon Emission	○	○	√	Not found/observed at site for all route in lot_3
	2	Leakage	○	○	√	
	3	Oil Spill	○	○	√	
	4	Onboard Waste Management	○	○	√	
	5	Noise and Vibration	○	○	√	

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

Sl no.	Factors	Checklist Items	Dredging Activity				Comments/Compliance
			Daily	Weekly	Monthly	Quarterly	
1	Legal and Regulatory Compliance	1 The contractors communicate to all the stakeholders regarding GRM processing and lodging complaints.	○	○	○	√	
		2 Contact details for lodging grievance easily accessible.	○	○	○	√	
2	Community Engagement	1 Consultations have been conducted with local communities, dredging contractors to collect their input on the GRM design.	○	○	○	√	
		2 The preferences of social customs and cultural sensitivities of the project affected communities taken into consideration.	○	○	○	√	
		3 FGD on GRM with the Project Affected Persons (PAPs)	○	○	○	√	
3	Grievance Channels	1 The multiple accessible channels available for the stakeholders to submit their grievances. (e.g., toll-free hotline, online platform , drop box, post, landline/mobile phone and e-mail).	○	○	○	√	
4	Processing of GFA (Good Faith Agreement)	1 Dyke/Land selection survey.	○	○	√	○	
		2 Opinion meeting with land owner along with inform to the contractor and S1A team for justifying land as dyke.	○	○	√	○	
		3 GFA documentation collection.	○	○	√	○	
		4 GFA will be submitted to S1A.	○	○	√	○	
		5 FGD on GFA with the Locals	○	○	○	√	
5	Constitution of GRM Committee	1 Preparation of GRM Committee Constituion by the Contractors.	○	○	○	√	
6	Establish a Complaint Box	1 Nos. of Feedback, concerned, suggestions and complain letters.	○	○	○	√	Not found/observed at site for all route in lot_3
7	Establish a Signboard	1 The size (5/15) of Bill board will according the BOQ	○	○	○	√	only 2 nos. sign board found one is at route 21(bheduria ferry ghat) and another one is at route 16(Patarhat launch ghat)
		2 Name, Mobile number and email of the focal person will be included in the Bill board.	○	○	○	√	Not found/observed at site for all route in lot_3
8	3 (three) tiers of the GRM Committee will be formed	1 Local level GRC [ In a five (5) members committee meeting Three (3) members participation will be the quorum ]	○	○	√	○	Local level GRC committee formed by Banga contractor and meeting done in this month of October,2023
		2 Contractor level GRC [ In a five (3) members committee meeting Three (3) members participation will be the quorum ]	○	○	√	○	Local level GRC committee formed by Banga contractor and meeting done in this month of October,2023
		3 Project level GRC [ In a five (3) members committee meeting Three (3) members participation will be the quorum ]	○	○	√	○	Local level GRC committee formed by Banga contractor and meeting done in this month of October,2023
9	Capacity Building	1 Project staffs and local institutions have received training on the GRM and its operation.	○	○	○	√	
10	Leaflet/ Brochure	1 The Leaflet/ Brochure will be published for dissemination to all the stakeholders.	○	○	○	√	
11	Monitoring, Reporting & documentation	1 The regular reports generated to document the number, nature, and resolution of grievances (Registration Book, Resolution book or Decision book & Closing book)	○	○	√	○	
12	Social Consultation	1 Local Community	○	○	√	○	
		2 Land Owner	○	○	√	○	
		3 Local Government Authority	○	○	○	√	
13	Gender-Based Violence (GBV)	1 Sex Violence by an intimate partner	○	○	○	√	None of these has been found/observed for the month of October,2023
		2 Sexual violence by a non-peer	○	○	○	√	
		3 Child sexual abuse& forced marriage	○	○	○	√	
		4 Sexual exploitation & abuse	○	○	○	√	
		5 Sexual harassment	○	○	○	√	
		6 In case of emergency, the local level GRC will address the matter within 4 - 12 hours.	○	○	○	√	

**ANNEX 04:**  
**Weekly Surveying and Dredging Reports of October 2023**

**3<sup>rd</sup> Week of October for Lot-2:**

Route No	Date	Surveying Progress (Chainage)	Surveying Progress (km)	Dredging Progress (Chainage)	Total Dredged Progress (m)
Route 7 & 8	18.10.23 – 24.10.23	No Activity	-	No Activity	-
Route 9	18.10.23	No Activity	-	04+784 to 04+798	146
	19.10.23	No Activity	-	04+798 to 04+816	
				05+538 to 05+548	
	20.10.23	No Activity	-	No Activity	
	21.10.23	No Activity	-	05+548 to 05+573	
	22.10.23	No Activity	-	06+734 to 06+752	
				05+573 to 05+586	
	23.10.23	No Activity	-	06+752 to 06+762	
	24.10.23	No Activity	-	05+586 to 05+596	
				06+762 to 06+783	
				05+596 to 05+603	

**3<sup>rd</sup> Week of October for Lot-3:**

Route No	Date	Surveying Progress (Chainage)	Surveying Progress (km)	Total	Dredging Progress
Route 13	18.10.23	21+500 to 37+500	16	38.42	No Activity
	19.10.23	21+500 to 03+500	18		No Activity
	20.10.23	03+920 to 02+950	1		No Activity
	21.10.23	02+950 to 02+280	1.14		No Activity
		00+880 to 00+410			
	22.10.23	02+280 to 00+000	2.28		No Activity
Route 13a	23.10.23	04+500 to 08+500	4	11	No Activity
	24.10.23	16+000 to 23+000	7		No Activity
Route 16	25.10.23	00+000 to 07+000	7	7	No Activity

**4<sup>th</sup> Week of October for Lot-2:**

Route No	Date	Surveying Progress (Chainage)	Surveying Progress (km)	Dredging Progress (Chainage)	Cutting Length (m)	Total Dredged Progress (m)
Route 9	25.10.23	No Activity	-	06+783 to 06+793	10	178
				08+018 to 08+037	19	
				05+603 to 05+608	5	
	26.10.23	No Activity	-	06+793 to 06+815	22	
	28.10.23	No Activity	-	06+815 to 06+841	26	
				08+037 to 08+041	4	
	29.10.23	No Activity	-	06+841 to 06+855	14	
				05+608 to 05+625	17	
	30.10.23	No Activity	-	06+855 to 06+862	7	
				05+625 to 05+641	16	
	31.10.23	No Activity	-	06+862 to 06+875	13	
				08+041 to 08+053	12	
				05+641 to 05+654	13	

**4<sup>th</sup> Week of October for Lot-3:**

Route No	Date	Surveying Progress (Chainage)	Bathymetric Baseline Survey Progress (km)	Total (km)	Chainage (km)	Dredging Progress (m)
Route 16	25.10.23	00+000 to 07+000	7	71.61	-	No Activity
	26.10.23	07+000 to 13+500	6.5		-	No Activity
	27.10.23	00+000 to 15+000	15		-	No Activity
	30.10.23	00+290 to 00+950	0.7		-	No Activity
	31.10.23	00+000 to 00+290	0.3		-	No Activity
	31.10.23	00+950 to 01+520	1.11		-	No Activity
Route 13a	28.10.23	00+000 to 16+000	16		-	No Activity
Route 21	28.10.23	-	-		08+569 to 08+550	19
	29.10.23	-	-		08+550 to 08+528	22
	30.10.23	-	-		08+528 to 08+500	28
Route 17	30.10.23	00+000 to 12+000	12		-	No Activity
Route 12	31.10.23	00+000 to 13+000	13		-	No Activity