



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



Bangladesh Inland Water Transport Authority (BIWTA)



The World Bank



MONTHLY PROGRESS REPORT NOVEMBER 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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Table of Contents

EXECUTIVE SUMMARY	6
CHAPTER 01: PROJECT DESCRIPTION IN A BRIEF	7
CHAPTER 02: SALIENT FEATURES & MONTHLY PROGRESS	8
2.1 PROGRESS OF BRWTP-S1A:.....	8
2.1.1: Development and Maintenance Dredging Works:	8
2.1.2: Environmental Quality Assessment:	8
2.1.3: Social and Resettlement Aspects:	15
2.1.4: Update information on Navigational Aids in November 2023	19
2.1.5: Field Activities of S1A Consultant in November 2023	20
2.1.6: Progress and Coordination Meetings of S1A Consultant:	20
2.2 PROGRESS OF LOT-2 (GULF COBLA-KARNAFULY JV) CONTRACTOR:	21
2.2.1 Development and Maintenance Dredging Works:	21
2.3 PROGRESS OF LOT-3, (DHARTI-BANGA JV) CONTRACTOR:	22
2.3.1 Development and Maintenance Dredging Works:	22
CHAPTER 03: ACHIEVEMENT OF LAST MONTH PLAN AND NEXT MONTH PLAN	23
3.1 ACHIEVEMENT OF LAST MONTH:.....	23
3.2 NEXT MONTH PLAN:	23
CHAPTER 04: CONCLUSION AND/OR RECOMMENDATIONS	24
CHAPTER 05: ANNEXURE	25
ANNEX 01: Project location and River Boundary.....	25
ANNEX 02: Photos: November Activities in Pictures.....	27
ANNEX 03: Attendance of the meetings	28
ANNEX 04: Checklist.....	33

List of Figures

Figure 1: Location of the sampling points in November for environmental quality assessments of River Route 9 under Lot-2.....	9
Figure 2: Location of the Dredger and sampling points in November for environmental quality assessments of River Route 16 under Lot-3	10
Figure 3: Location of the Dredger and sampling points in November for environmental quality assessments of River Route 16 under Lot-3	11
Figure 4: Water Boundary of All Routes under Lot-2	25
Figure 5: Water Boundary of All Routes under Lot-2	26
Figure 6: Route 21 Water Boundary	26
Figure 7: Visits, Communication & Consultation, Meetings, Survey, Environmental Quality Assessments and Dredging Work (November 2023)	27

List of Tables

Table 1: Environmental Quality Assessment for November 2023 for Lot-2 and Lot-3	12
Table 2: Compliance Status for November 2023 for Lot-2.....	14
Table 3: Compliance Status for November 2023 for Lot-3.....	15
Table 4: ESHS Status at a Glance in November 2023	18
Table 6: Field Activity of BRWTP-S1A at Lot-2 Site.....	20
Table 7: Field Activity of BRWTP-S1A at Lot-3 site.....	20
Table 8: Interaction with Client/Contractors and other stakeholder (November, 2023)	20
Table 9: Updated Dredging Work at a glance in November 2023 of Lot 2	21

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	Grievance Redress Committee
GRM	Grievance Redressal Mechanism
HSE	Health and Safety Expert
IALA	International Association of Marine Aids and Lighthouse Authorities
IBC	Idle Berthing Centre
ID	Identity
IHO	International Hydrographic 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 November 2023, Lot-2 contractor dredged 613 m on Route 9 (Class III, length 80km, Titas River). From the month of March 2023 till November 2023, they have cumulatively dredged 3.87 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 done hydrographic baseline survey on route 3 & 4, 5, 6, 7 & 8, 10 and 11.

During the month of November, 2023, the Lot-3 contractor carried out 1.4 km of emergency dredging on Route 21 on the same alignment they dredged on March 2023 as it got siltation during this period. Besides, they have done Hydrographic Baseline Survey on Route 12, 13, 13a, 15, 16, 17 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

On the month of November 2023, the S1A consultant have visited Route 9 with the Chairman of BIWTA and PIU representatives in order to inspect the dredging works and other field activities. Besides, on this reporting period, progress meetings have been held with the third-party monitoring teams S12/2 and S12/3 on 14th November 2023 and 19th November respectively in order to discuss the social and environmental activities on the project sites of both Lot-2 and Lot-3. On 20th November 2023, a coordination meeting has been held on the PIU conference room with PIU and contractors in order to discuss about the dredging progress and difficulties. Besides, they continued to carry out all the routine works within the scope of supervision consultant as usual.

CHAPTER 01: PROJECT DESCRIPTION IN A BRIEF

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 st November, 2022; Duration of 66 months
Date of Commencement	:	6 th 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

2.1 PROGRESS OF BRWTP-S1A:

2.1.1: Development and Maintenance Dredging Works:

Lot-2:

In November 2023, Lot-2 contractor dredged 613 m on Route 9 (Class III, length 80km, Titas River). From the month of March 2023 till November 2023, they have cumulatively dredged 3.87 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 done hydrographic baseline survey on route 3 & 4, 5, 6, 7 & 8, 10 and 11. The S1A consultant have visited Route 9 with the Chairman of BIWTA and PIU representatives in order to inspect the dredging works and other field activities. Besides, on this reporting period, progress meetings have been held with the third-party monitoring teams S12/2 and S12/3 on 14th November 2023 and 19th November 2023 respectively in order to discuss the environmental activities on the project sites of both Lot-2 and Lot-3. On 20th November 2023, a coordination meeting has been held on the PIU conference room with PIU and contractors in order to discuss about the dredging progress and difficulties.

Lot-3:

During the month of November, 2023, the Lot-3 contractor carried out 1.4 km of emergency dredging on Route 21 on the same alignment they dredged on March 2023 as it got siltation during this period. Besides, they have done Hydrographic Baseline Survey on Route 12, 13, 13a, 15, 16, 17 and 21. Moreover, they did the maintenance surveys and environmental quality control activities on Route 16 and 21.

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 November, 2023 consisting of air, water, noise pollution levels, riverbed materials report, etc.

The map (Figure 1&2) shows the location of the dredger and the sampling points in this month for environmental quality assessments of Lot-2 and Lot-3.



Figure 1: Location of the sampling points in November for environmental quality assessments of River Route 9 under Lot-2

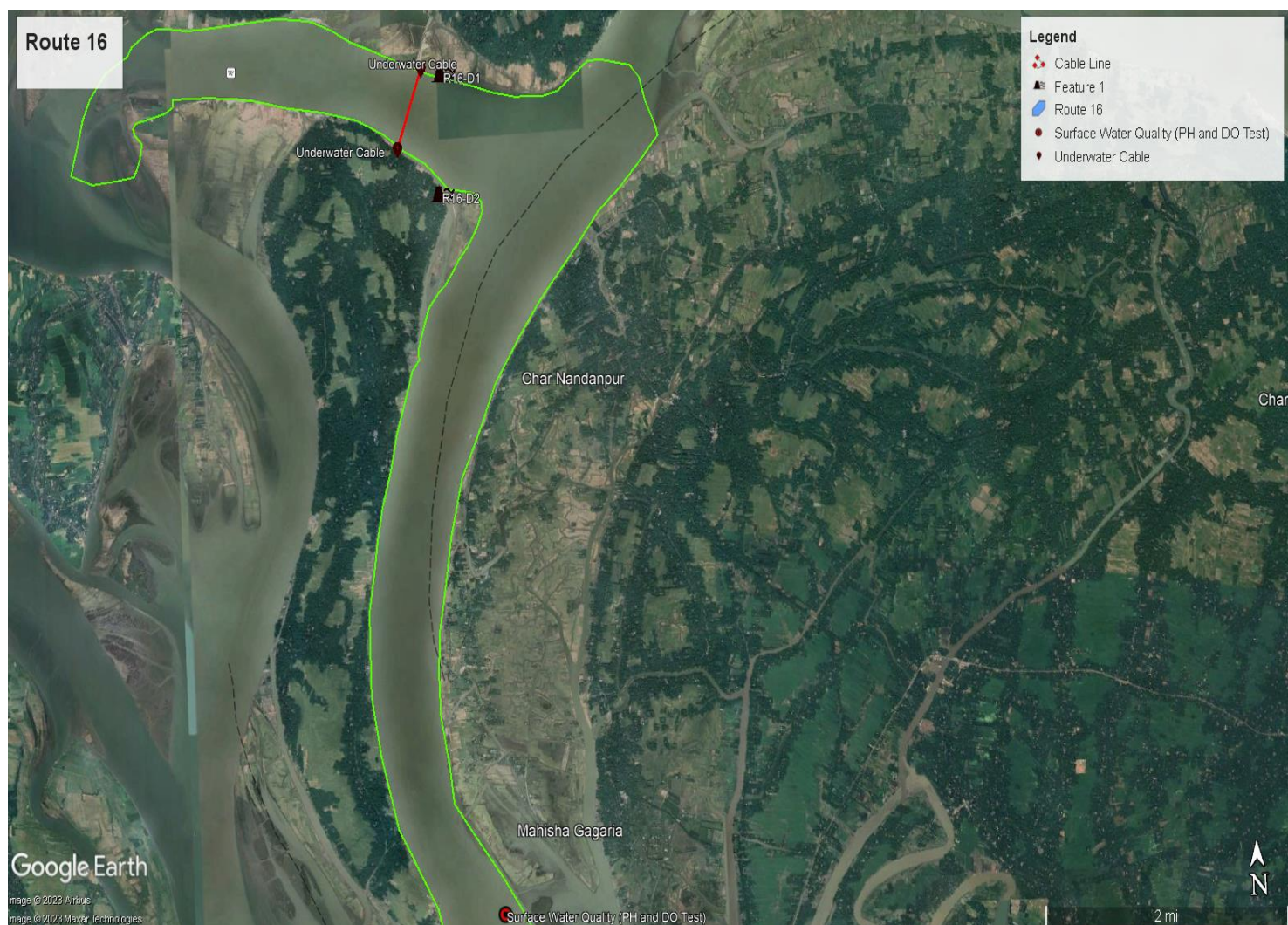


Figure 2: Location of the Dredger and sampling points in November for environmental quality assessments of River Route 16 under Lot-3

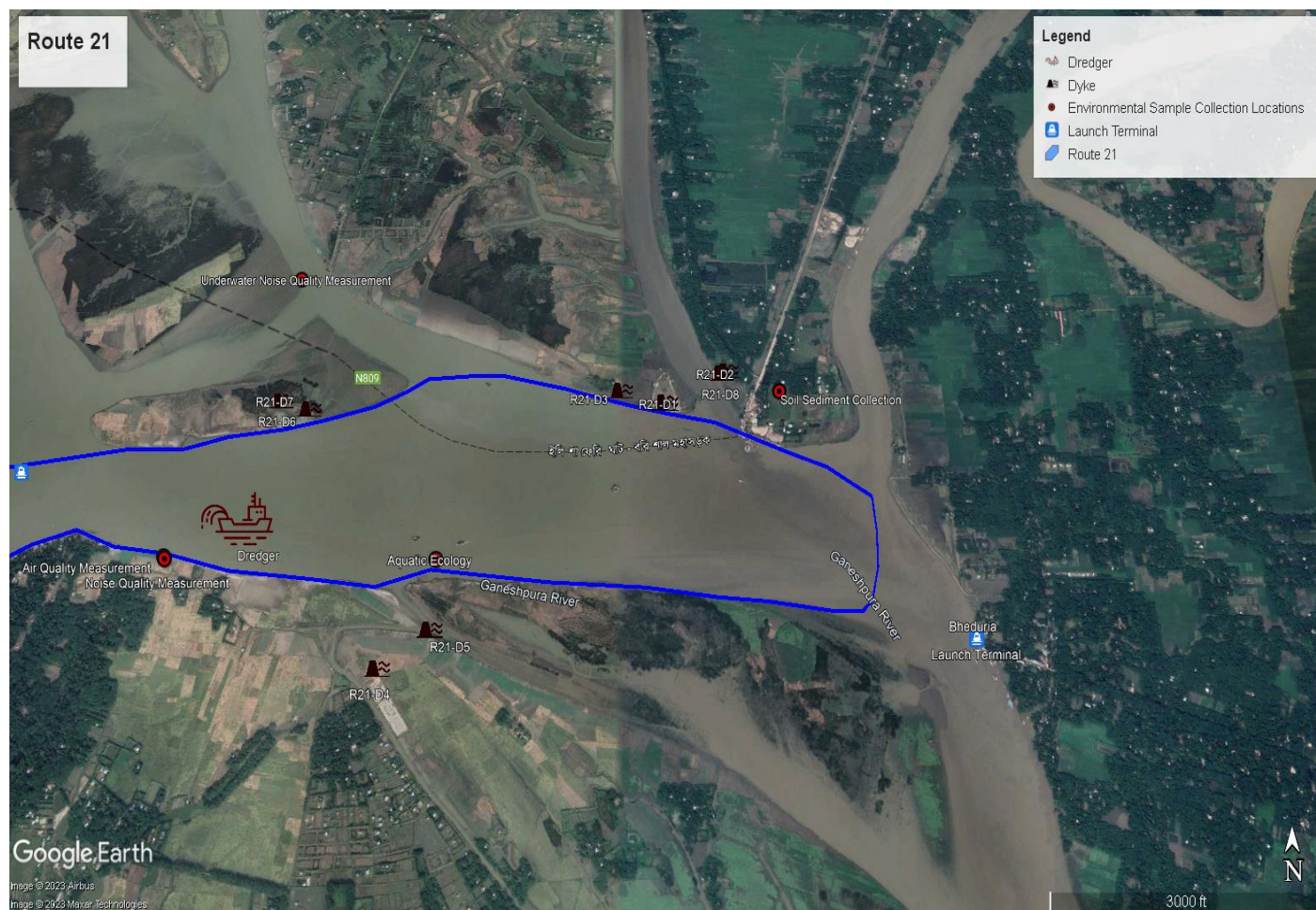


Figure 3: Location of the Dredger and sampling points in November for environmental quality assessments of River Route 16 under Lot-3

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

Sl No.	Item	Para meters	Baseline Data of Route 09	Route 7 & 8	Route 9	S1A Remarks November 2023	Approved Limits (ECR 2023)
			February 2023	November 2023			
1	Air Quality	SPM	168.64	140.73	167.83	No approved limit	No approved limit
		PM10	78.42	68.29	79.28	Within the approved limit	150 µg/m3
		PM2.5	53.46	48.29	61.82	Within the approved limit	65µg/m3
		SO2	30.58	25.81	29.95	Within the approved limit	80µg/m3
		NO2	26.15	28.69	35.46	Within the approved limit	80µg/m3
		CO	0.6	0.4	0.9	Within the approved limit	5µg/m3
2	Noise Level	LEQ day	58.4	51.8	54.3	Within the approved limit	75dB(day)
		L _{max}	69.6	60.5	68.8	Within the approved limit	75dB(day)
		L _{min}	40.5	42.8	46.8	Within the approved limit	75dB(day)
3	Surface Water Quality	Temperature	31.9		35.5	The surface water temperature is within the limit due to the large volume of steadily flowing water.	20 - 30°C
		EC	208		130	No approved limit, but below 300 represents good water quality	No approved limit
		pH	6.92		7.62	Within the approved limit	6.5 - 8.5
		TDS	235		275	Within the approved limit	1000
		DO	6.1		6.6	Results from the water samples are within the limit	>5
		BOD5	5.4		4.3	Within the approved limit	<5
	TSS	162		172	Within the approved limit	No approved limit for TSS but between 0 and 300 is considered good for fish and other aquatic resources.	
4	Riverbed Sediment	Lead (Pb)	11.58		17.94	Lead content is higher in Route 09 samples, the sources for this deadly element may be the market.	No approved limit under ECR 2023, however WHO/FAO limits for lead range between 0.3 - 14 mg/kg
		Cadmium (Cd)	0.082		0.08	Within acceptable limit	No approved limit under ECR 2023, however WHO/FAO limits for lead range between 0.3 - 14 mg/kg
		Chromium (Cr)	13.98		16.92	Within acceptable limit	No approved limit under ECR 2023, however WHO/FAO limit is 1.5 mg/kg
		Zinc (Zn)	24.54		20.48	Within acceptable limit	No approved limit under ECR 2023, (from VCC based in the location of the free ranging however WHO/FAO limit is 1.5 mg/kg
		Arsenic (As)	2.4		1.2	Within acceptable limit	No approved limit under ECR 2023

N.B. The test results are given in the annex part.

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.	Item	Parameters	Baseline Data of Route 21	River Route 21	S1A Remarks November 2023	Approved Limits (ECR 2023)
			December 2022	November 2023		
1	Air Quality	SPM	165.2	65.32	November data from a different location of Route 21.	No approved limit
		PM10	13.69	41.53	Variation due to emission from mechanized boat movement	150 µg/m3
		PM2.5	47.28	18.37	Below	65µg/m3
		SO2	72.15	11.70	Within the approved limit	80µg/m3
		NO2	22.18	13.45	Within the approved limit	80µg/m3
		CO	1.5	0.5	Within the approved limit	5µg/m3
2	Noise Level	LEQ day	68.6	55.33	Within the approved limit	75dB(day)
		L _{max}	84.4	74.33	Within the approved limit	75dB(day)
		L _{min}	37.3	35.45	Within the approved limit	75dB(day)
3	Surface Water Quality	Temperature	22.1	25.6	Within the approved limit	20 - 30°C
		EC	300	200	Within the baseline limit	No approved limit
		pH	7.89	7.75	Within the approved limit	6.5 - 8.5
		TDS	150	125	Within the approved limit	1000
		DO	6.2	7.3	Optimum flow	>5
		BOD5	0.4	0.7	Within the approved limit	<5
		TSS	93	92	Within acceptable limit	No approved limit TSS but between 0 and 300 is considered good for fishes and other aquatic resources.
4	Riverbed Sediment	Lead (Pb)	11.6	10.13	Within acceptable limit	No approved limit under ECR 2023, however WHO/FAO limits for lead range between 0.3 - 14 mg/kg
		Cadmium (Cd)	0.082	0.057	Within acceptable limit	No approved limit under ECR 2023, however WHO/FAO limits for lead range between 0.3 - 14 mg/kg
		Chromium (Cr)	13.29	11.55	Within acceptable limit	No approved limit under ECR 2023, WHO/FAO limit is 1.5 mg/kg
		Zinc (Zn)	32.58	17.09	Within acceptable limit	No approved limit under ECR 2023, WHO/FAO limit is 1.5 mg/kg
		Arsenic (As)	2.4	1.98	Within acceptable limit	No approved limit under ECR 2023

N.B. The test results are given in the annex part.

Table 2: Compliance Status for November 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 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 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			-	-	C	-	-	-
Safety of workers	Occupational safety		PPEs provided	-	-	P	Monitor use of PPEs	-
Waste management			-	-	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 November 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 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 complaints 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

2.1.3: Social and Resettlement Aspects:

In Lot-2 and Lot-3, total 8 disposal areas have been selected. The GRM expert of S1A is working on setting up the protocols for reporting the GRM issues at different level in a structured way based on CEAP and Contractual responsibilities.

2.1.3.1 Land Acquisition/Requisition/Good Faith Agreement/Charity:

Lot-02: At present **30** 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:

Good Faith Agreements (GFA), Lot 2, Route-09, Route 07&08 (District: Brahmanbaria and Narsingdi).

Dyke No.	Route No	Land Owner		Land			Good Faith Agreement (GFA)
		Name and NID	Address	Description	Quantity (Decimal)	Quality of Land	
25	09	Ilias Miazi NID: 199212164880001 30 Mbl: 01985728652	Village: Bishnurampur Union: Tezkhal Upazila: Bancharampur District: Brahman Baria	Mouza: Bishnurampur SA Khatian: 172, Plot no: 1308,1497,1448,427,1105 Bishnurampur JL No 43	174	Agriculture land (One Crop)	Under Processing
26	09	1. Gazi Kawsar NID: 3298455597 Mbl: 01713685001 2. Gazi abdu Salam NID: 2398479119 Mbl: 01740956081 3. Md. Zakir Hossain NID: 7348561049 Mbl: 01713585112 4. Chandra Kumar Das NID: 1210488090007 Mbl: 01740968121	Village: Aka Nagar Union: Tezkhal Upazila: Bancharampur District: Brahman Baria.	Mouza No: Aka Nagar SA Khatian: 3921,4096,3941 Plot No: 5760,5705,5707,5790,6370,6698,5744,5711,5384,5715 J L No 13	310	Agriculture land (One Crop)	Under Processing
27	09	Md. Hanif NID: 5501395304 Mbl: 01717531207	Village: Bishnurampur Union: Bishnurampur Upazilla: Bishnurampur District: Brahman Baria.	Mouza: Bishnurampur SA Khatian: 894, Plot no. 108,111 Khatian No. 860/380 JL No. 41	154	Agriculture land (One Crop)	Under Processing
28	09	Habib Ulla NID: 2398391876 Mbl: 01817506254	Village: Bahirchar Union: Bishnurampur Upazila: Bancharampur District: Brahman Baria.	Mouza No. Bahirchar 603,714,1152,1545 Bishnurampur Khatian No: 92 JL No: 41	79	Agriculture land (One Crop)	Under Processing

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

01	7&8	1.Hanif Mia NID: 6816020733136 2.Abu Kashed Mia NID: 6816020432149 3.Abul Kashem NID: 5501734684 4.Nuru Mia NID: 8218914904 5.Sushil Chandra Sutradhar NID: 6816020732471 Mbl: 01794391918, 01712766109	Village: Birgaon Union: Alokballi Upazila:Narsingdi Sadar District: Narsingdi	Mouza: Char Madhobpur SA Khatian No: 425/2010/2051 CS Plot No: 4212, 4219, 4262, 4341, 10070, 10037, 13062, 10064, 10062, 10061, 10091, 10204, 9689, 9690, 9653, 10079, 10056, 10205, 9798, 10118, 10111, 10114 JL No: 73, 62, 52	677	About 70% Fallow Land and 30% Agriculture land (One Crop)	Under Processing
02	7&8	Md. Delwar Hossain NID: 9550769062 Mbl: 01712766109	Village: Bakhor nagar Union: Alokballi Upazila:Narsingdi Sadar District: Narsingdi	Mouza: Char Madhobpur SA Khatian No: 8723/4356/4126/4247 SA Plot No: 7879,7915,7880,8793,7891,7 960,7961,9730,9731,9732,87 30,896,7496,7494,9756, 9757, 9727,9730, 9731, 9732,8726, 8743, 7891, 8793,7886, 7496,7494,9622,7915 JL No: 62	328	Fallow Land	Under Processing

Lot-03: At present **09** 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 (GFA) through several consultation meetings with local people in local Bazaars, Union Council, villages and the local Schools.

Good Faith Agreements (GFA), Lot-03, Route 21, (District: Bhola & Barisal).

Dyke No.	Route No	Land Owner		Land			Good Faith Agreement (GFA)
		Name and NID	Address	Description	Quantity (Decimal)	Quality of Land	
08	21	Johurul Islam NID:4192286039 Mbl: 01711320785	Village: Bheduriya Union: Bhola Sadar Upazila: Bhola Sadar District: Bhola.	Mouza No. Char Bheduriya Khatian No: 1319 JL No: 56	405	Agriculture land (Two Crops)	Under Processing
09	21	Md. Kabir Hossain Mridha NID:6878485082 Mbl: 01735802399	Village: Sreepur Union: Mehendiganj Upazila: Mehendiganj District: Barishal.	Mouza No. Ghagoria Khatian No: 296 JL No: 118	700	Agriculture land (Two Crops)	Under Processing

2.1.3.2 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	05 November, 2023	S1A Field Team organized meetings with local people for Finding Land for new dykes.	Lot-3, Route 21, Laharhat-Bheduria Route.
2	08 November, 2023	New disposal area selection and discussion meeting with Contractor representatives regarding dredging work.	Bheduria site.Route no.21, Lot-3.
3	08 November, 2023	Land selection and communication with local people for another new dyke.	Lot-3 site at villege- Sreepur
4	16 November, 2023	Meeting with Union Chairman and elites of the village regarding land selection for ne dyke.	Bakharnagar Union, Brahmanbaria.

2.1.3.3 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 November 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	Good arrangement kept in House boat	Good arrangement kept in House boat
	Gas cylinder storage and maintenance	Maintained	Maintained
	Fire Extinguisher	Available	Available
	Safe Drinking Water	Accessible. Freshwater is collecting daily from tube well of nearby villages	Accessible. Freshwater is collecting daily from tube well of nearby villages
	Toilet facilities	Good	Good
Workers Condition and Employment situation	Total Employment (person)	36	58
	Male Female Ratio	All employees are Male	No Female Employee
	Wage Status	Good arrangement kept in House boat	Good arrangement kept in House boat
	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.	Safety helmet, Safety vest, safety shoes, Hand gloves etc. observed at site.	Available in site level but need awareness for using PPE
Traffic management	Provision for preventing accident including night time.	Contractors ESHS team visiting site and concerning all the Manpower	Contractors ESHS team visiting site and concerning all the Manpower
	Dredging sites clearly demarcated and protected to ensure community safety.	Demarcated and Processing for installation required Aids to navigation	Demarcated and Processing for installation required Aids to navigation

2.1.3.4 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.

2.1.3.5 Grievance Redressal Mechanism (GRM):

Two Grievance Redress 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 peoples about reporting mechanisms of grievance or suggestions if any. Grievance box have been installed in Lot-2 and Lot-3 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 November 2023

World Bank (WB) and Project Implementing Unit (PIU) approved the items under Type-I, Type-II and Type-III for Aids to Navigation to be installed along the Inland Waterways Routes in Lot-2 & Lot-3 as per contract Number BRWTP-W1A-02 and BRWTP-W1A-03 respectively. Project Coordinator BRWTP -S1A served the letter of confirmation after consulting with PIU to the Contractors Lot-02 and Lot-03 on November 22, 2023 to proceed accordingly for the further course of action from their ends at the soonest.

The following table is self-explanatory and is described all in a nut shell including quantity of Aids to Navigation to be installed.

On discourses with the contractors on 30 November, 2023 it is learnt that both contractors are seriously in a position to expedite the process of importing the necessary Aids to Navigation from abroad as required. The contractors are hopeful to complete the installation jobs in scheduled time as opinioned.

Route	River Name	From	To	Length (KM)	BIWTA Class	Type-1	Type-2	Type-3
						Lighted Buoys in numbers	Single Tower Lighted Beacon in Numbers	P.C Pole In Numbers
3&4	Shitalakshya	Munshiganj	Ghorashal	56	I	12	08	20
5	Meghna	Munshiganj	AshuganjN	87	I	15	14	40
6	Meghna	Nabinagar Loop		26	I	06	02	00
7&8	Meghna	Nasinghidi Northern & Southern Approaches		33	II	00	00	08
9	Meghna	Bancharampur/Homna Loop		60	II	00	00	12
10	Meghna	Homna	Daudkandi	33	III	00	00	10
11	Gumti	Meghna	Daudkandi	17	II	00	00	10
12	Chandpur	Chandpur	R140 Bridge	10	II	00	00	10
13	Meghna	Alubazar	Hazar	89	II	00	00	18
13 a	Meghna	Looping route inside Char Hijla		15	II	00	00	04
15	Mghna	Mehendiganj	Daulatkhan	11	I	00	00	10
16	Tentulia	Mehendiganj	Bheduria	42	III			
17	Tentulia	Bheduria	Route 14	11	III	00	00	08
21	Tentulia	Bheduria	Laharhat	09	I	06	05	25

On discourses with the contractors on 30 November, 2023 it is learnt that both contractors are seriously in a position to expedite the process of importing the necessary Aids To Navigation from abroad as required. The contractors are hopeful to complete the installation jobs in scheduled time as opinioned.

2.1.5: Field Activities of S1A Consultant in November 2023

Table 5: Field Activity of BRWTP-S1A at Lot-2 Site

Serial No	Date	Activity	Route name & Route number	Remarks
1	29, November, 2023	To visit the dyke no 28	Lot-2, Route no. Bahir char, Bishnurampur	
2	28, November, 2023	Inspection of dyke construction and Good Faith Agreement (GFA) signing.	River route - 7&8 and 09 of Lot-2	
3	November, 2023	BM installation for pre work Bathymetric Survey.	BRWTP-S1A, Route-09 Lot-2	
4	November, 2023	Bathymetric Survey Work started by BIWTA.	BRWTP-S1A, Route-09 Lot-2	
5	November, 2023	Bathymetric Survey Work ongoing by BIWTA.	BRWTP-S1A, Route-09 Lot-2	
6	November, 2023	Bathymetric Survey Work ongoing by BIWTA.	BRWTP-S1A, Route-09 Lot-2	
7	November, 2023	Bathymetric Survey Work completed in route 09 by BIWTA.	BRWTP-S1A, Route-09 Lot-2	

Table 6: Field Activity of BRWTP-S1A at Lot-3 site

2.1.6: Progress and Coordination Meetings of S1A Consultant:

Serial No.	Date	Activity	Route name & Route number	Remarks
1	01 November, 2023	Hydrographic Line/pre-Survey work	Route no.13, Lot_3 at Char Hizla.	
2	03 November, 2023	Hydrographic Line/pre-Survey work.	Route no.15, Lot_3 at Ilisha area.	
3	04 November, 2023	Hydrographic Line/pre-Survey work	Route no.15, Lot_3 at Ilisha area.	
4	08 November, 2023	Dredging Progress supervision and new disposal area selection.	Route no.21, Lot_3 at Bheduria site.	
5	28 November, 2023	Dyke.	Route no.21, Lot_3 at	

Table 7: Interaction with Client/Contractors and other stakeholder (November, 2023)

SN	Date	Venue	Meeting Agenda	Participants
1	11 November, 2023	Meeting room of Lot- 2 contractor's field office, Solimganj, Brahmanbaria.	Monitoring visit to observe and discuss on the field level progress of Lot-2 Contractor's site.	Chairman, BIWTA, Project Director and other representatives of PIU, Project Coordinator and dredging expert of S1A Consultants. Lot-2 Contractors Representatives were present. Also, LG representatives UNO and AC Land of Solimganj Upazila and Hon'ble MP Mr. Md Tazul Islam were present in that meeting.

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

SN	Date	Venue	Meeting Agenda	Participants
2	14 November, 2023	Conference Room, S1A, project office, Motijheel, Dhaka	Coordination meeting with BRWTP S12/2 and S1A.	
3	17 November, 2023	Upazila Office, Narsingdi Sadar	Consultation with representatives of Local Government	
4	19 November, 2023	Meeting Room of BRWTP-PIU, Motijheel, Dhaka.	Coordination meeting with BRWTP-PIU, BRWTP- S12/3 and BRWTP-S1A	
5	21 November, 2023	Birgaon village, Alokbal union, Narsingdi Sadar.	Meeting with project beneficiaries of the River Route 7&8 of Lot-2	Delwar Hossain, Chairman, Alokbal Union Parishad, Narsingdi Sadar, Narsingdi. Mohammad Nazrul Islam, Social and Resettlement Expert, BRWTP-PIU Kandakar Mahbub, Communication and GRM Expert, BRWTP-PIU Asheque Ahmed, Communication and GRM Expert, BRWTP-S1A Mostofa kamal, Data Enumerator, BRWTP-S1A Md.Masum Billah (Bathymetric and Hydrographic Surveyor), BRWTP-S1A Roni Mahmud, Data Enumerator, BRWTP-S1A MD. Obaydur Rahman (Manager) KSBL Land owners of selected dykes and other project beneficiary of the route 7&8 were present.

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

2.2.1 Development and Maintenance Dredging Works:

In November 2023, Lot-2 contractor dredged 613 m on Route 9 (Class III, length 80km, Titas River). From the month of March 2023 till November 2023, they have cumulatively dredged 3.87 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 have done hydrographic baseline survey on route 3 & 4, 5, 6, 7 & 8, 10 and 11.

Table 8: Updated Dredging Work at a glance in November 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 30 November	Class-III	Nilukhi	05+654 to 05+838	1.9 m	184	6722.65 m ³
02.	Karnafuly-03	01 to 30 November	Class-III	Akanagar	06+875 to 07+159		284	13638.45 m ³
03.	Karnafuly-05	01 to 30 November	Class-III	Imamnagar	08+053 to 08+198		145	6747.725 m ³

2.2.1.1 Information on Disposal Areas November 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	04+600	280049	2637334	Right	30% filled
R09-D18	Brahmanbaria	Bancharampur	Akanogor	1.0126	Private	05+100	280007	2637221	Right	51% filled
R09-D20	Brahmanbaria	Bancharampur	Imamnagor	0.3648	Private	04+500	280707	2636396	Right	9% filled
R09-D22	Brahmanbaria	Bancharampur	Bahirachor	0.2178	Private	08+000	281538	2637286	Right	28% filled
R09-D23	Brahmanbaria	Bancharampur	Bahirachor	0.4817	Private	07+150	280231	2638149	Left	90% filled
R09-D24	Brahmanbaria	Bancharampur	Bishnurampur	0.4858	Private	08+190	280698	2636450	Right	20% filled

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

2.3.1 Development and Maintenance Dredging Works:

During the month of November, 2023, the Lot-3 contractor carry out 1,383 m of emergency dredging work on Route 21. Besides, they have completed 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 (m ³)
01.	Banga Padma	01 to 30 November	Class-I	Bheduria	08+600 to 08+227 and 06+300 to 07+230	4	1383	1,00,653.63
02	Banga Jamuna	01 to 30 November	Class-I	Bheduria	08+600 to Ch.8+520 08+468	4		

2.3.1.1 Information on Disposal Areas November 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-D9	Barisal	Mehandiganj	Ghagoria	2,802.80	Private	06+700	248077	2513374	Left	35% Filled
R21-D10	Bhola	Bheduria	Bheduria	3,107	Private	08+500	249563	2513540	Left	5% Filled

CHAPTER 03:

ACHIEVEMENT OF LAST MONTH PLAN AND NEXT MONTH PLAN

3.1 ACHIEVEMENT OF LAST MONTH:

➤ **S1A**

- a) Submitted Daily Survey and Dredging Monitoring Sheet to PIU.
- b) Submitted four weekly reports of survey and dredging progress of both Lot-2 and Lot-3 contractors to PIU.
- c) Conducted Supervision and Monitoring of Dredging activities on Route 9, Route 7 & 8 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 3.87 km of dredging of 20 km on Route 9, which is 19.35% dredging progress on Route 9.
- b) Conducted Bathymetric Line Survey on all routes and submitted the charts and raw data.
- c) Related Environmental, Social and GRM Activities have been conducted.

➤ **Lot-3**

- a) Conducted Bathymetric Line Survey on all routes.
- b) Conducted 1.4 km of emergency dredging on Route 21
- c) Related Environmental, Social and GRM Activities have been conducted.

3.2 NEXT MONTH PLAN:

➤ **S1A**

- a) Reviewing the Volume data with the submitted data by the contractor.
- b) Supervision and Monitoring of Surveying, dredging activities, ESHS and GRM activities of Lot-2 and Lot-3 as mentioned below.
- c) Conducting Good Faith Agreement on Route 6, 9, 7 & 8 and 11 under Lot-2 and on Route 21 under Lot-3.
- d) Expediting navigational aid installation work plan from the Lot-2 and Lot-3 contractors.

➤ **Lot-2**

- a) Expediting dredging work on Route 9.
- b) Dredging Route 6, 7 & 8, 11.
- c) Related Environmental, Social and GRM Activities

➤ **Lot-3**

- a) Dredging work on Route 21, 13 and 13a
- b) Related Environmental, Social and GRM Activities.

CHAPTER 04: CONCLUSION AND/OR RECOMMENDATIONS

The Lot-2 contractors dredging activities is falling far behind the schedule. Out of 6 routes they are working on Route 9 and 7 & 8. They have finished doing hydrographic and topographic survey. They have completed Baseline Hydrographic survey on 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).

Lastly, the S1A consultant is working on reviewing the volume assessed by the Lot-2 and Lot-3 contractors.

CHAPTER 05: ANNEXURE

ANNEX 01: Project location and River Boundary

LOT-2:

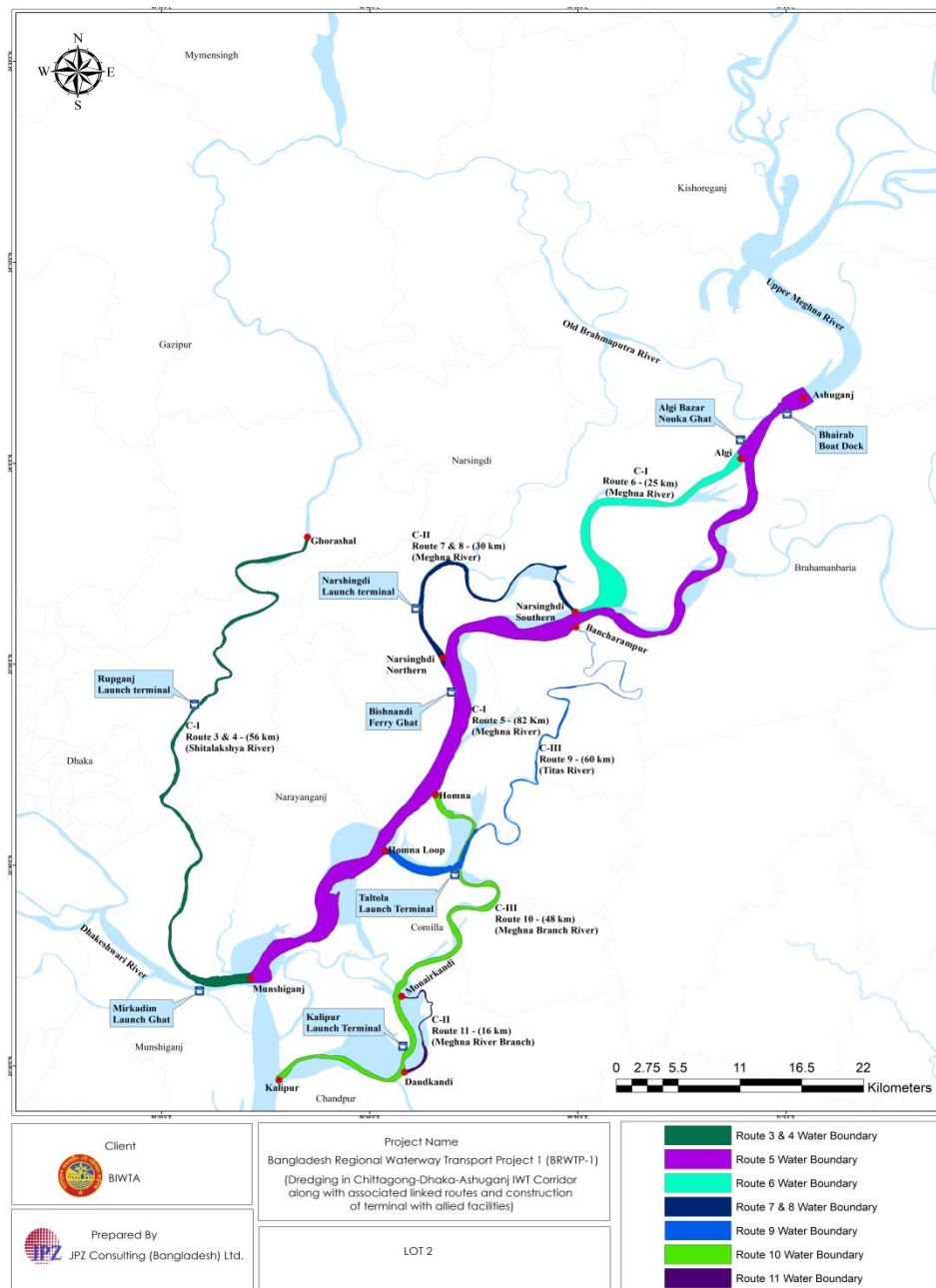


Figure 4: Water Boundary of All Routes under Lot-2

LOT-3:

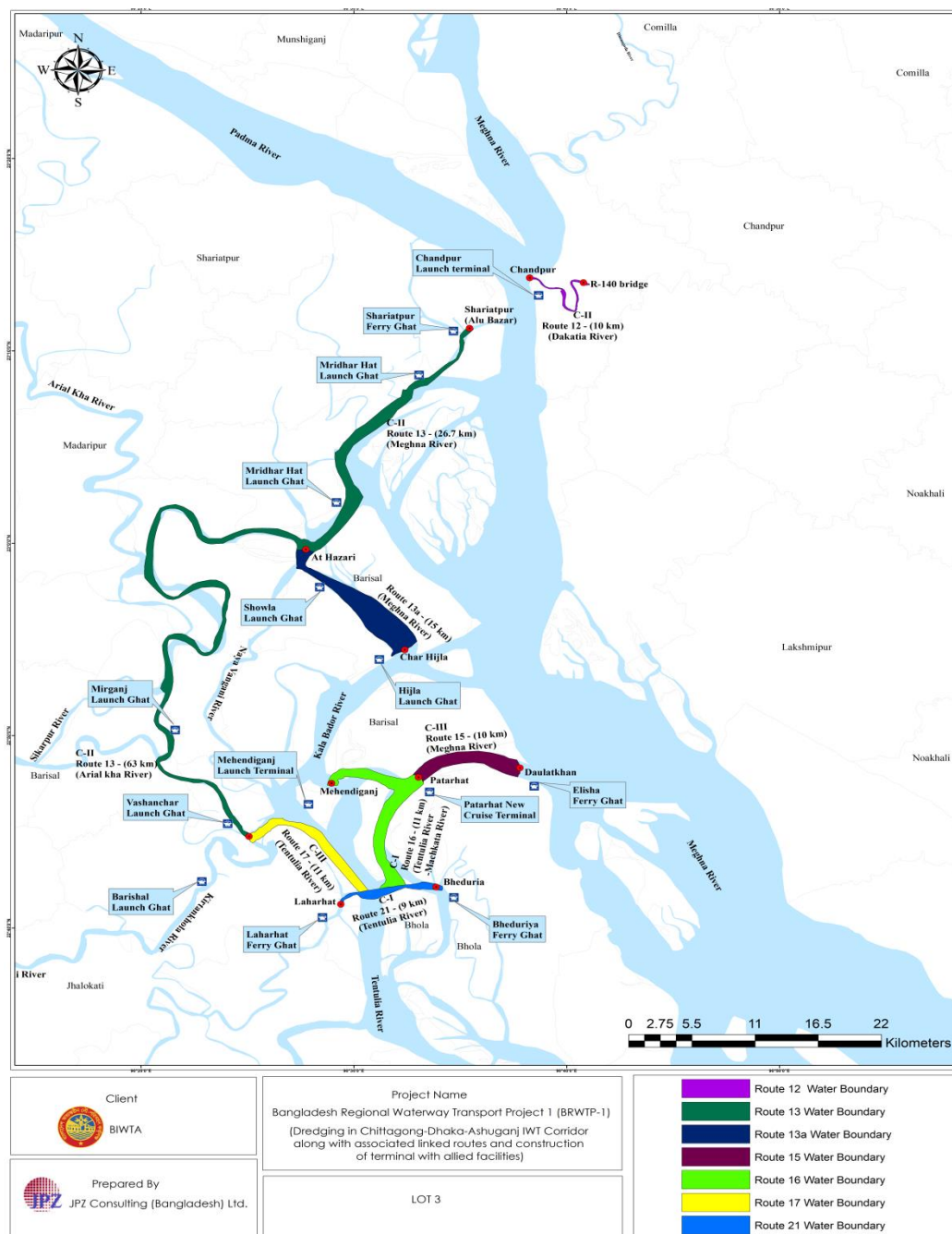


Figure 5: Water Boundary of All Routes under Lot-2

ANNEX 02:
Photos: November Activities in Pictures



Figure 7: Visits, Communication & Consultation, Meetings, Survey, Environmental Quality Assessments and Dredging Work (November 2023)

ANNEX 03:

Attendance of the meetings

Attendance Sheet			
Bangladesh Regional Waterway Transport Project 1 (BRWTP-1)			
Subject: Coordination meeting with S12/2 and S1A			
Venue: S1A Consultant Conference Room, Level-20, BSC Tower, 2-3 Motijheel, Dhaka-1000			
Time: 10:30 AM			
Date: 14/11/2023			
	Name & Designation	Company	Signature
1.	Engr. Mohammad Ali Shams Project Coordinator BRWTP-S1A	JPZ-DEMAs-JCL	M. A. Shams 14.11.2023
2.	Mr. Sulhas Sharker 01675531005	DSS	Sulhas 14.11.2023
3.	Dewan Md. Ali Emran Team Leader	DSS.	Ali Emran 14.11.2023
4.	Mohammad Shah Alam Navigational Aids Experts	JPZ-DEMAs-JCL	M. Shah Alam 14.11.2023
5.	Abd. Anwar Haida Drayn Expt.	"	Abd. Anwar 14.11.2023
6.	Rakela Rabbani	"	Rakela 14.11.23
7.	Asheque Ahmed	"	Ashed 14.11.23
8.	Tabea Khatun Jaba	"	Tabea 14.11.23
9.	Mehadi Hassan	"	Mehadi 14.11.23
10.	Ms. Soomik Hossain	DSS	Soomik 14.11.23

Ref: EQMS/Air Quality/ 202311261481

EQMS ENVIRONMENTAL LABORATORY
Monitoring Results of Ambient Air Quality

Project Name	: BRWTP-1, LOT-2: OPBC Works of Development Dredging with maintenance and Aids to Navigation with installation along inland waterway Routes- 3 & 4, 5, 6, 7 & 8, 9,10, and 11
Monitoring Activity	: Ambient Air Quality
Monitoring Personnel	: Amit Kumar Saha
Location	: AQ 1: 23°55'0.30"N 90°48'22.77"E; Monipura Ghat (Route- 7) AQ 2: 23°49'34.13"N 90°50'17.07"E; In front of Akanagar Mazar (Route- 9) AQ 3: 23°49'34.43"N 90°50'51.61"E; Near Bishnurampur Eidgah Ground (Route-9) AQ 4: 23°49'45.09"N 90°51'1.67"E; Near Bishnurampur Nouka Ghat (Route-9)
Monitoring Date	: (7-8).11.2023
Reporting Date	: 02.12.2023

Description of Analysis:

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	08/11/23	140.73	68.29	48.29	25.81	28.69	0.4
AQ 2	08/11/23	158.18	72.53	63.84	30.24	33.15	0.7
AQ 3	08/11/23	162.37	75.82	60.74	31.39	34.83	0.8
AQ 4	08/11/23	167.83	79.28	61.82	29.95	35.46	0.9
Air Pollution (control) rules, 2022*		-	150	65	80	80	5
Method of Analysis		Particulates Sensor			High Sensitivity		
Instrument Use:		Light Scattering Nephelometer			Electrochemical		
Haz-Scanner TM (HIM, 6000)							

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

Received By:


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Analyzed By:


Ahmed Jubaer
Technical Manager
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Toronto Office: 7 Arnot Street, Scarborough Ontario, M1K4B5 Canada



Ref: EQMS/Noise Level/ 202311261482

EQMS ENVIRONMENTAL LABORATORY

Monitoring Results of Noise Level Measurement

Project Name	: BRWTP-1, LOT-2: OPBC Works of Development Dredging with maintenance and Aids to Navigation with installation along inland waterway Routes- 3 & 4, 5, 6, 7 & 8, 9,10, and 11.
Monitoring Activity	: Noise Level
Monitoring Personnel	: Amit Kumar Saha
Location	: NL1: 23°55'0.33"N 90°48'22.62"E; Monipura Ghat (Route- 7)
	NL2: 23°49'34.13"N 90°50'17.07"E; In front of Akanagar Mazar (Route- 9)
	NL3: 23°49'34.43"N 90°50'51.61"E; Near Bishnurampur Eidgah Ground (Route-9)
	NL4: 23°49'45.09"N 90°51'1.67"E; Near Bishnurampur Nouka Ghat (Route-9)
Monitoring Date	: (7-8).11.2023
Reporting Date	: 02.12.2023

Description of Analysis:

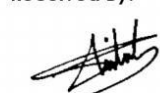
Location	Noise level (dB(A))			Bangladesh Standard (dB(A)) *	IFC EHS Guideline (2007)	Location setting
	Leq _{day}	L _{max}	L _{min}	Day	Day	
NL1	51.8	60.5	42.8	60	70	Mixed area
NL2	57.8	68.5	48.2	60	70	
NL3	58.2	69.8	49.5	60	70	
NL4	54.3	68.8	46.8	60	70	

Note:

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

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

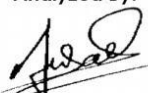
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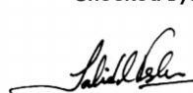
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Ref: EQMS/Underwater Noise Level/ 202311261483

EQMS ENVIRONMENTAL LABORATORY
Monitoring Results of Noise Level Measurement

Project Name	: BRWTP-1, LOT-2: OPBC Works of Development Dredging with maintenance and Aids to Navigation with installation along inland waterway Routes- 3 & 4, 5, 6, 7 & 8, 9,10, and 11.
Monitoring Activity	: Underwater Noise Level
Monitoring Personnel	: Amit Kumar Saha
Location	: UWNL1: 23°49'43.50"N 90°50'59.12"E; Bancharampur-Salimganj Now Path (Route-9)
	: UWNL2: 23°49'26.74"N 90°50'24.94"E; Bancharampur-Salimganj Now Path (Route-9)
Monitoring Date	: 08.11.2023
Reporting Date	: 02.12.2023

Description of Analysis:

Code	Location	L _{Avg} [dB (A)]	*Standard
UWNL1	Bancharampur-Salimganj Now Path	58.6	No
UWNL2	Bancharampur-Salimganj Now Path	57.2	standard of GoB

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Toronto Office: 7 Arnot Street, Scarborough Ontario, M1K4B5 Canada



Ref: EQMS/Water Quality/ 202311261484

EQMS WET LABORATORY
Test Results of Surface Water Quality


Project Name	:	BRWTP-1, LOT-2: OPBC Works of Development Dredging with maintenance and Aids to Navigation with installation along inland waterway Routes- 3 & 4, 5, 6, 7 & 8, 9,10, and 11.
Description of Sample	:	Surface Water – Lot 2
		SW1 - 23°49'41.15"N 90°50'16.92"E - Bancharampur-Salimganj Now Path (Route-9)
		SW2 - 23°49'30.22"N 90°50'21.82"E - Bancharampur-Salimganj Now Path (Route-9)
		SW3 - 23°49'29.87"N 90°50'45.49"E - Bancharampur-Salimganj Now Path (Route-9)
		SW4 - 23°49'40.14"N 90°50'55.37"E Bancharampur-Salimganj Now Path (Route-9)
Sample Collector	:	Amit Kumar Saha
Sampling Date	:	08.11.2023
Reporting Date	:	02.12.2023

Description of Analysis:

Parameters	Unit	Concentration Present				Bangladesh Standard
		SW1	SW2	SW3	SW4	
Temperature	°C	35.7	35.5	35.3	35.6	-
EC	µS/cm	128	130	135	143	-
Turbidity	NTU	4.8	5.1	4.7	4.6	-
pH	-	7.69	7.62	7.68	7.73	6-9
TDS	ppm	280	275	284	295	1000
DO	mg/L	6.3	6.6	6.7	6.5	5 or more
Potassium	mg/L	32	29	34	35	-
Calcium	mg/L	48	51	43	47	-
Magnesium	mg/L	22	20	25	24	-
Phosphate	mg/L	0.4	0.3	0.3	0.5	0.5
Chloride	mg/L	28	29	25	27	-
Fluoride	ppm	0.7	0.5	0.9	0.8	-
Nitrate	mg/L	0.8	1	0.9	0.7	7
BOD5 (at 20°C)	mg/L	4.4	4.3	4.7	4.8	6 or less
Sulfate	mg/L	19	16	21	23	-
TSS	mg/L	166	172	159	169	-

Note: Bangladesh Environment Conservation Rules, 2023(Standards for Inland Surface Water). DO: Dissolved Oxygen; BOD: Biological Oxygen Demand; EC: Electric Conductivity; TDS: Total Dissolved Solids; TSS: Total Suspended Solids

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Head Office: H # 53, Road # 1, B # C, Banani, Dhaka -1213, Bangladesh

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Toronto Office: 7 Arnot Street, Scarborough Ontario, M1K4B5 Canada



Ref: EQMS/ Dredge Material / 202311261485

EQMS WET LABORATORY

Test Results of Dredge Material

Project Name	:	BRWTP-1, LOT-2: OPBC Works of Development Dredging with maintenance and Aids to Navigation with installation along inland waterway Routes- 3 & 4, 5, 6, 7 & 8, 9,10, and 11.
Description of Sample	:	Dredge Material – Lot 2
		DM1 - 23°49'26.78"N 90°50'50.69"E - (Route-9)
		DM2 - 23°49'26.61"N 90°50'50.70"E- (Route-9)
Sample Collector	:	Amit Kumar Saha
Sampling Date	:	08.11.2023
Reporting Date	:	02.12.2023

Description of Analysis:

Parameter	Unit	Dredge Material – Lot 2		Methodology
		DM1	DM2	
Lead	mg/kg	15.73	17.94	ICPMS
Cadmium	mg/kg	0.06	0.08	ICPMS
Chromium	mg/kg	12.83	16.92	ICPMS
Zinc	mg/kg	22.73	20.48	ICPMS
Arsenic	mg/kg	1.4	1.2	ICPMS

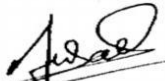
Note: ICPMS - Inductively coupled plasma mass spectrometry

Received By:



Shihabuddin Ahmed Imran
Consultant
EQMS Consulting Limited

Analyzed By:



Ahmed Jubaer
Technical Manager
EQMS Consulting Limited

Checked By:



Md. Jahidul Islam
Quality Manager
EQMS Consulting Limited



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**ANNEX 05:
Checklists**

ESHS Checklist of Lot-2

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 checked="" type="checkbox"/>	
	2	Explanation to the Local Stakeholders	<input type="radio"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	
	3	Signboards, Notice Boards	<input type="radio"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	
2. Physical Environmental Parameters Monitoring	1	Air Quality	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	Supervised in 6 November at solimgonj site.
	2	Surface Water Quality	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	Supervised in 6 November at solimgonj site.
	3	Solid Wastes	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	Supervised in 6 November at solimgonj site.
	4	Liquid Wastes	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	Supervised in 6 November at solimgonj site.
	5	Soil Contamination	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	Supervised in 6 November at solimgonj site.
	6	Noise and Vibration	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	Supervised in 6 November at solimgonj site.
	7	Underwater Noise	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	Supervised in 6 November at solimgonj site.
	8	Odor	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	Supervised in 6 November at solimgonj site.
	9	Riverbed Sediment	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	Supervised in 6 November at solimgonj site.
	10	Groundwater	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	Supervised in 6 November at solimgonj site.
3. Natural Environment	1	Protected Areas	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	Route no. 09
	2	Habitat Type	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	Route no. 09
	3	Hydrology	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	Route no. 09
	4	Topography and Geology	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	Route no. 09
	5	Dolphin Observation	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	Route no. 09
	6	Fish Catch Examination	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	Route no. 09
	7	Flora (Aquatic & Terrestrial)	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	Route no. 09
	8	Benthos (Micro & Macro)	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	Route no. 09
	9	Phyto- & Zoo-planktons	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	Route no. 09
4. Social Environment	1	Resettlement	<input type="radio"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	
	2	Living and Livelihood	<input type="radio"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	
	3	Heritage	<input type="radio"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	
	4	Landscape	<input type="radio"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	

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

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

Dredging Checklist of Lot-2

Checklist Items		Dredging Activity			Comments/Compliance
		Daily	Monthly	When and As Required	
1	Gauge reading & Water level (WL)	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	Average water level is 1.568 m
2	Connectivity with BM & TBM	<input type="radio"/>	<input type="radio"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>	

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

3	Study Hydrographic Chart	<input type="radio"/>	<input type="radio"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>	Chart is prepared for route 09 and 7 &8
4	Fixing Cutting Depth respect to existing WL as per design depth	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	Average cutting depth is 1.816 m
5	Checking Dredging Alignment	<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 checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	
b	Cutting Length	<input type="radio"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	Total cutting length 3684 m
c	Cutting Depth	<input type="radio"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	Average cutting depth is 1.816m
d	Cutting Width	<input type="radio"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	25 m
e	Dredged Volume	<input type="radio"/>	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	Total volume 1,63,337.038m3
7	Supervising Dredged Material Disposal Area whether the Dykes are designed as per Design	<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 checked="" type="checkbox"/> <input type="checkbox"/>	<input type="radio"/>	
9	Checking outlet of the compartment	<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="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 checked="" type="checkbox"/> <input type="checkbox"/>	<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

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

GRM Checklist of Lot-2

Sl no.	Factors	Checklist Items	Dredging Activity				Comments/Compliance
			Daily	Weekly	Monthly	Quarterly	
1	Legal and Regulatory Compliance	1 The contractors communicate to all the stakeholders regarding GRM processing and lodging complaints.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	There are a GRM committee with 5 persons here.
		2 Contact details for lodging grievance easily accessible.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2	Community Engagement	1 Consultations/ FGD have been conducted with local communities, dredging contractors to collect their input on the GRM design.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3	Grievance Channels	1 The multiple accessible channels available for the stakeholders to submit their grievances. (e.g., toll-free hotline, online platform , drop box, post, landline/mobile phone and e-mail).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4	Processing of GFA (Good Faith Agreement)	1 Dyke/Land selection survey.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Survey in every week.
		2 Opinion meeting with land owner along with inform to the contractor and S1A team for justifying land as dyke.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Survey in 15 days a month.
		3 GFA documentation collection.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Collection the document 15 days a month.
		4 GFA will be submitted to S1A.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		5 FGD on GFA with the Locals	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5	Constitution of GRM Protocol	1 Preparation of GRM Protocol and Greivance Redres Committee (GRC) will be Constituted by the Contractors.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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

6	Establish a Complaint Box	1	For receive feedback, suggestions and complain letters.	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	There are 3 complain box in site. One box is in office, one box in houseboat and onther is open road site.
7	Establish a Signboard	1	The size of Bill board will be 5/15. The bill board should contain: name, mobile number and email of the focal person.	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	There is a signboard in front of office.
8	3 (three) tyers of the GRM Comitee will be formed	1	Local level GRC (Committee members 05, quorum fullfill at least 03) -Project related issues.	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	
		2	Contractor level GRC (Committee members 03, quorum fullfill at least 03)- GBV, CoC, Contractor's workers occurance etc. related issues.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	
		3	Project level GRC (Committee members 03, quorum fullfill at least 03)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	
9	Capacity Building	1	Project staffs and local institutions have received training on the GRM, GBV related issues and its operation.	<input type="radio"/>	ON/A	<input type="radio"/>	<input type="radio"/>	
10	Leaflet/ Brochure	1	The Leaflet/ Brochure will be published for dissemination to all the stakeholders.	<input type="radio"/>	ON/A	<input type="radio"/>	<input type="radio"/>	There is no liflat in the site.
11	Monitoring, Reporting & documentation	1	The regular reports generated to document the number, nature, and resolution of grievances (Registration Book, Resolution book / Decision book & Closing book)	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	
12	Social Consultation	1	Local Community	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	
		2	Land Owner	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	
		3	Local Government Authority	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	
13	Gender-Based Violence (GBV)	1	Sex Violence by an intimate partner	<input type="radio"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	
		2	Sexual violence by a non-peer	<input type="radio"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	
		3	Child sexual abuse & forced marriage	<input type="radio"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	
		4	Sexual exploitation & abuse	<input type="radio"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	
		5	Sexual harassment	<input checked="" type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		6	In case of emergency, the local level GRC will address the matter within 04 -12 hours.	<input checked="" type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

ESHS Checklist of Lot-3

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.21 for the month of November,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.21
	2	Habitat Type	○	√	○	Route no.21
	3	Hydrology	○	√	○	Route no.21
	4	Topography and Geology	○	√	○	Route no.21
	5	Dolphin Observation	○	√	○	Route no.21
	6	Fish Catch Examination	○	√	○	Route no.21
	7	Flora (Aquatic & Terrestrial)	○	√	○	Route no.21
	8	Benthos (Micro & Macro)	○	√	○	Route no.21
	9	Phyto- & Zoo-planktons	○	√	○	Route no.21
4. Social Environment	1	Resettlement	○	○	√	
	2	Living and Livelihood	○	○	√	
	3	Heritage	○	○	√	
	4	Landscape	○	○	√	

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

	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 of near by village
	10	Sanitary Condition	√	○	○	Good arrangement kept in House boat
6. Dredged Material Disposal Area	1	Agreement with Land Owner	○	○	√	Process on going
	2	Land Use Type	○	√	○	Once or twice cultivated land in a year
	3	Dyke Design Approval	○	√	○	New dyek at Route no.21 named 08(R21-D8),09(R21-D9) & 10(R21-D10).
	4	Dyke Setback Distance	○	√	○	20m, 1026m and 1450m distance from the river bank
	5	Disposal Area Dyke Height	○	√	○	2.5m (avg)
	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	○	○	√	

Dredging Checklist of Lot-3

Checklist Items			Dredging Activity			Comments/Compliance
			Daily	Monthly	When and As Required	
1	Gauge reading & Water level (WL)		<input type="radio"/>	<input type="radio"/>	✓	
2	Connectivity with BM & TBM		<input type="radio"/>	<input type="radio"/>	✓	
3	Study Hydrographic Chart		<input type="radio"/>	<input type="radio"/>	✓	
4	Fixing Cutting Depth respect to existing WL as per design depth		<input type="radio"/>	<input type="radio"/>	✓	
5	Checking Dredging Alignment		<input type="radio"/>	<input type="radio"/>	✓	
6	Checking Dredged Activities as below;					Dredged Activities for the month of November, 2023
	a	Dredging Hours	<input type="radio"/>	✓	<input type="radio"/>	Total Dredging Hours 249.1 hrs
	b	Cutting Length	<input type="radio"/>	✓	<input type="radio"/>	Total length 1481.31m
	c	Cutting Depth	<input type="radio"/>	✓	<input type="radio"/>	Cutting Depth 2.5m (average)
	d	Cutting Width	<input type="radio"/>	✓	<input type="radio"/>	Cutting Width 32.5m(1st cut) and 65m(2nd cut)
	e	Dredged Volume	<input type="radio"/>	✓	<input type="radio"/>	Total Dredged Volume 1,00653.66 cum
7	Supervising Dredged Material Disposal Area whether the Dykes are designed as per Design		<input type="radio"/>	✓	<input type="radio"/>	Supervised together with dredging experts during the new dyke construction and it is observed that Dykes are maintained as per Design
8	Supervising Dredged Material Disposal Area whether the Dykes are capable to resist the pressure of disposed materials		<input type="radio"/>	✓	<input type="radio"/>	It's observed that new dyke boundary wall maintained proper design thickness, slope, layer of compaction, 20m/30m safe distance from river bank with bamboo strip protection at river side slope.
9	Checking outlet of the compartment		<input type="radio"/>	✓	<input type="radio"/>	Using 4hrs of outlet of this compartment
10	Check whether the dykes are being constructed at safe distance from river bank		<input type="radio"/>	✓	<input type="radio"/>	20m, 1026m and 1450m 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		<input type="radio"/>	✓	<input type="radio"/>	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.		<input type="radio"/>	✓	<input type="radio"/>	It is observed that contractor maintained 100m from safe distance from Road/Houses/building and 20m-30m safe distance maintained from river Bank

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

13	Check Survey Activities	○	√	○	Route wise Hydrographic Pre survey (line and details survey) work done on dated from 01.11.2023 to 04.11.2023 for lot 3 Route number 15 & 16
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GRM Checklist of Lot-3

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 Constitution by the Contractors.	○	○	○	√	
6	Establish a Complaint Box	1 Nos. of Feedback, concerned, suggestions and complain letters.	○	○	√	○	Not found/observed at site for all route in lot_3

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

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 on dated 14th October,2023
		2	Contractor level GRC [In a five (3) members committee meeting Three (3) members participation will be the quorum]	○	○	○	✓	Local level GRC committee formed by Banga contractor on dated 14th October,2023
		3	Project level GRC [In a five (3) members committee meeting Three (3) members participation will be the quorum]	○	○	○	✓	Local level GRC committee formed by Banga contractor on dated 14th October,2023
9	Capacity Building	1	Project staffs and local institutions have received training on the GRM and its operation.	○	○	○	✓	
10	Leaflet/ Brochure	1	The Leaflet/ Brochure will be published for dissemination to all the stakeholders.	○	○	○	✓	
11	Monitoring, Reporting & documentation	1	The regular reports generated to document the number, nature, and resolution of grievances (Registration Book, Resolution book or Decision book & Closing book)	○	○	✓	○	Route no.21
12	Social Consultation	1	Local Community	○	○	✓	○	Route no.21
		2	Land Owner	○	○	✓	○	Route no.21
		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 November, 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.	○	○	○	✓	