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পোস্ট বক্স ৭৬, ঢাকা-১০০০

বাংলাদেশ অভ্যন্তরীণ নৌপরিবহন কর্তৃপক্ষ
BANGLADESH INLAND WATER TRANSPORT AUTHORITY
www.biwta.gov.bd

মুজিব বর্ষের অঙ্গীকার নদী রাখবো পরিষ্কার
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BANGLADESH

No: 18.11.0000.311.14.070.2020/ 822

Date: 11/11/2021

Corrigendum-I

Name of the Tender: Procurement of 01 (one) No. Trailing Suction Hopper Dredger (Hopper capacity 1100 m³/hr) with spare parts.

Invitation for Tender No-18.11.0000.311.14.070.2020/458, Issued on:20-09-2021

The following modification/correction for 01 (one) No. Trailing Suction Hopper Dredger (Hopper capacity 1100 m³/hr) with spare parts will be as follows:

Sl. No	Tender clause no	Tender Conditions given by BIWTA	Questions/Clarifications sought by the prospective tenderer	Answers/Clarifications
1.	Section 4 Particular Conditions of Contract GCC 23.2 (a)	For Goods supplied from abroad as per INCOTERM CIF or CIP: (a) original and 6 (six) copies of the negotiable, clean, on-board bill of lading marked "freight prepaid" and 6 (six) copies of non-negotiable bill of lading;	Requested to delete the clause because the vessel will be delivered on its own keel.	This condition shall be treated as deleted
2.	Section 2 Tender Data Sheet ITT 15.1(a)	The minimum amount of liquid asset or working capital or credit facility is BDT 1430.00 (One thousand Four Hundred Thirty) million or US\$ 17.00 (Seventeen) million. Tenderer must submit Letter of Commitment for Bank's Undertaking for Line of Credit as per form PG4-6A which is specified in the tender document.	-	<u>This Condition shall be replaced as follows:</u> The minimum amount of liquid asset or working capital or credit facility is BDT 1430.00 (One thousand Four Hundred Thirty) million or US\$ 17.00 (Seventeen) million.
3.	Section 4 Particular Conditions of Contract GCC 27.1	1st Stage: 10 (ten) percent of the Contract Price of the goods shall be paid within 30 (thirty) days towards submission of basic drawings i.e.,	1st Stage: 10 (ten) percent of the Contract Price of the goods shall be paid within 30 (thirty) days towards submission of basic drawings i.e.,	<u>This Condition shall be replaced as follows:</u> 1st Stage: 10 (ten) percent of the Contract Price of the goods shall be paid within 30 (thirty) days towards submission of

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	Payment for Trailing Suction Hopper Dredger:	General Arrangement plan, Tank Arrangement, Preliminary Stability Calculation, Lines Plan, Free board calculation, General construction plan, Preliminary load balance of hopper dredger to both purchaser and classification society (if applicable) along with a bank guarantee for equivalent amount. The bank guarantee shall be valid until the goods are delivered to the Final Destination and in the form provided in the Tender Document (PG4-10)	General Arrangement plan, Tank Arrangement, Preliminary Stability Calculation, Lines Plan or images of the 3-D hull form, Free board calculation, General construction plan, Preliminary load balance of hopper dredger to both purchaser and classification society.	basic drawings i.e., General Arrangement plan, Tank Arrangement, Preliminary Stability Calculation, Lines Plan and/or images of the 3-D hull form, Free board calculation, General construction plan, Preliminary load balance of hopper dredger to both purchaser and classification society (if applicable) along with a bank guarantee for equivalent amount. The bank guarantee shall be valid until the goods are delivered to the Final Destination and in the form provided in the Tender Document (PG4-10).
4.	<p>Section 4</p> <p>Particular Conditions of Contract</p> <p>GCC 27.1</p> <p>Payment for Trailing Suction Hopper Dredger:</p>	<p>3rd Stage:</p> <p>20 (twenty) percent of the Contract Price of the goods shall be paid within 30 (thirty) days on presentation of supplier's invoice with relevant certificates/documents as per Clause GCC 32.1 towards completion of main hull of hopper dredger at the factory of manufacturer's yard (s) which shall be supported by inspection certificates issued by the representative (s) of Purchaser and Classification Society and upon submission of Bank Guarantee for an equivalent amount. The bank guarantee shall be valid until the goods are delivered to the Final Destination and in the form provided in the Tender Document (PG4-10).</p>	<p>3rd Stage:</p> <p>20 (twenty) percent of the Contract Price of the goods shall be paid within 30 (thirty) days on presentation of supplier's invoice with relevant certificates/documents as per Clause GCC 32.1 towards completion of main hull of hopper dredger at the factory of manufacturer's yard (s) or its hull building supplier yard involved which shall be supported by inspection certificates issued by the representative (s) of Purchaser and Classification Society and upon submission of Bank Guarantee for an equivalent amount. The bank guarantee shall be valid until the goods are delivered to the Final Destination and in the</p>	This condition shall remain unchanged.



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			form provided in the Tender Document (PG4-10).	
5.	Section 4 Particular Conditions of Contract GCC 32.1 Foreign Inspection for Goods manufactured in abroad:	Inspection for 1st stage payment: Not Required. As the payment shall be made on submission of basic drawings mentioned i.e., General Arrangement plan, Tank Arrangement, Preliminary Stability Calculation, Lines Plan, Free board calculation, General construction plan, Preliminary load balance of hopper dredger to both purchaser and classification society (if applicable).	Inspection for 1st stage payment: As the payment shall be made on submission of basic drawings mentioned i.e., General Arrangement plan, Tank Arrangement, Preliminary Stability Calculation, Lines Plan or images of the 3-D hull form, Free board calculation, General construction plan, Preliminary load balance of hopper dredger to both purchaser and classification society (if applicable).	<u>This Condition shall be replaced as follows:</u> Inspection for 1st stage payment: Not Required. As the payment shall be made on submission of basic drawings mentioned i.e., General Arrangement plan, Tank Arrangement, Preliminary Stability Calculation, Lines Plan and/or images of the 3-D hull form, Free board calculation, General construction plan, Preliminary load balance of hopper dredger to both purchaser and classification society (if applicable).
6.	Section 4 Particular Conditions of Contract GCC 32.1 Foreign Inspection for Goods manufactured in abroad:	Inspection for 3rd stage payment: On completion of main hull of above dredger at the manufacturer's yard(s).	Inspection for 3rd stage payment: On completion of main hull of above dredger at the factory of manufacturer's yard (s) or its hull building supplier involved.	This condition shall remain unchanged.
7.	Section 4 Particular Conditions of Contract GCC 35.1 Liquidated damage	<u>With respect to technical aspect:</u> Speed: In case of failure to achieve the hopper dredger speed of 10.50 knots at maximum continuous power rating (MCR) in fully loaded condition at 3.50m draft, the supplier shall pay liquidated damages to the purchaser at 0.5% for 0.125 knot reduction up to a maximum limit of 10.25 knots.	Requested to introduce a grace of 0.25 knots, as was applicable with the previous tender.	<u>This Condition shall be replaced as follows:</u> In case of failure to achieve the hopper dredger speed of 9.00 knots at maximum continuous power rating (MCR) in fully loaded condition at 3.50m draft, the supplier shall pay liquidated damages to the purchaser at 0.5% for 0.125 knot reduction up to a maximum limit of 8.50 knots. The first 0.25 knot reduction of speed shall be considered as grace period.

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8.	Section 5 Period of Delivery	Period of Delivery as per Schedule of Requirement: 21 (Twenty-one) months from the date of signing of contract.	Period of Delivery shall be 24 (Twenty-four) months from the date of signing of contract.	Period of Delivery shall be 24 (Twenty-four) months instead of 21 (Twenty-one) months from the date of signing of contract.
9.	Section 5 Manufacturer's Authorization Letter (Form PG4-5)	We <i>[insert complete name of Manufacturer]</i> , who are official manufacturers of <i>[insert type of goods manufactured]</i> , having factories at <i>[insert full address of Manufacturer's factories]</i> , do hereby authorize <i>[insert complete name of Tenderer]</i> to supply the following Goods, manufactured by us <i>[insert name and or brief description of the Goods]</i> .	We <i>[insert complete name of Manufacturer / authorized local distributor]</i> , who are official manufacturers / authorized distributor of <i>[insert type of goods manufactured]</i> , having factories / distributor centre at <i>[insert full address of Manufacturer's factories / Distributor's centre]</i> , do hereby authorize <i>[insert complete name of Tenderer]</i> to supply the following Goods, manufactured by us <i>[insert name and or brief description of the Goods]</i> .	This Condition shall remain unchanged.
10.	Section 7 Sl no 1.18 of Technical Specification Galey equipment.	j. Gas stove 2 nos. (Double Burner)	Electric oven with four cooking plates	Electric oven with four cooking plates may be provided instead of Gas stove 2 nos. (Double Burner).
11.	Annex-II: auxiliaries and services for dredger 3. Operation contract for dredgers	Operation period: 12 (Twelve) months. Working period-12 hours x 6 days per week. Skill Level: 1) 1 No. Skilled Dredge Master (Foreign) and 1 no. skilled Navigational Master (Local may be allowed) shall be provided. The dredge master shall have an experience of two years in operating hopper dredger.	1 No. Skilled Dredge Master / Navigational Master shall be provided. The dredge master / navigational maser shall have an experience of two years in operating hopper dredger.	This Condition shall remain unchanged except Operation period. The operation period shall be 06 (Six) months instead of 12 (Twelve) months.

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		2) 1 no. Driver (Local may be allowed) shall be provided		
12.	Annex-II: auxiliaries and services for dredger 4. Plans and Instruction manuals	At the time of tender submission, the following drawings and calculations shall be submitted. (a) General Arrangement (b) Lines plan with offset table (c) Midship section (d) Preliminary stability booklet (e) Speed-power calculation	At the time of tender submission, the following drawings and calculations shall be submitted. (a) General Arrangement (b) Lines plan with offset table or images of the 3-D hull form (c) Midship section (d) Preliminary stability booklet (e) Speed-power calculation	This Condition shall be replaced as follows: At the time of tender submission, the following drawings and shall be submitted. (a) General Arrangement (b) Midship section
13.	B. Spare Parts vi) Spare Parts for dredge pump assy. & other accessories	Cutter blades/cutter teeth with lock- 5sets (1 set means total number of blades/teeth for one complete cutter)	Request to omit the Cutter blades/cutter teeth with lock from spare parts as TSHD has no cutter blades.	This condition shall be treated as deleted
14.	Section 2 Tender data sheet ITT 5.1	Tenderers from the following countries are not eligible: ISRAEL.	One of our suppliers for a minor equipment for the TSHDs that we build is from Israel and in the general terms and conditions of the tender it states that goods from that country are not eligible. Is it possible to receive an exemption?	This condition shall remain unchanged.
15.	Section 2 Tender data sheet ITT 24.3	Name of the foreign currency: USD or GBP or EUR or JPY.	The allowed currencies in the tender are restricted to USD, GBP, EUR and JPY. Is there a possibility to also include INR and CNY?	This Condition shall be replaced as follows: Name of the foreign currency: USD or EUR
16.	-	-	Within the eligibility requirements of this tender it is not mentioned whether technical cooperation schemes with another (eligible) shipyard are possible in order to qualify, i.e. by building a suitable and proven	Technical cooperation in form of joint venture is not allowed for the procurement of goods as per PPR-2008.

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			TSHD design of an eligible shipyard at another shipyard, and by including a dedicated material package and construction support from said eligible shipyard?	
17.	Section 7 Sl no 1.01 of Technical Specification	Draught loaded (maximum)- 3.50 m	The maximum draught of the vessels seems to be too low for 1,100m ³ TSHD. For the 1,100m ³ vessel we expect a realistic draught of 3.8-4.5m. Is there a possibility to increase the draught accordingly?	This condition shall remain unchanged.
18.	-	Nothing mentioned about the type of propeller in tender document.	Azimuths thrusters will provide more flexibility and maneuverability especially in congested harbor areas. We suggest to incorporate Azimuth thrusters instead of fixed pitch propeller. Is it possible to include Azimuth thrusters?	Fixed Pitch propeller with Kort nozzle shall be provided.
19.	Section 7 Sl no 1.01 & 1.03 of Technical Specification	Inner diameter suction pipe (about)- 550-600 mm Dredging performance (loading)- Approx. 60 minutes at 15-20-meter dredging depth	If one is able to comply with the loading times of the TSHD with a smaller or larger diameter of the Trailing Suction Pipe as requested, does this pose an issue? We believe the loading time is leading and more important than the diameter of the pipe.	In order to achieve the 60 minutes loading time at 15-20-meter dredging depth, diameter of suction pipe will be approx. 500mm.
20.	Section 7	The Trailing Suction Hopper Dredger shall be capable to operate in Sea State 2 (Douglas Sea scale, Wave height moderate-0.10 to 0.50 meters) and shall be capable to navigate in Sea State 4 (Douglas Sea scale, Wave height moderate-1.25 to 2.5	Requested to omit the criteria.	This condition shall remain unchanged.

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		meters)		
21.	Section 7 Sl no 1.02 of Technical Specification Class	<p>The hull of the dredger including its main engines, generator, electrical & hydraulic installations etc. shall be built and classed for Inland Waterways under the rules and regulations of International Classification Society of BV/Lloyds/NKK /ABS/DNV.GL. The appropriate class notations for fully classed hull and fully classed machinery to be mentioned in the offer:</p> <p>Full Class Notation (Hull): Means ship's hull design, hull materials used and constructions done under the proposed classification societies Special Survey in full compliance with the Rules and regulations. Hull notation shall be mentioned at the technical specification.</p> <p>Full Class Notation (Machinery): Means all propelling and essential auxiliary machinery to be designed, constructed, installed and tested under Special Survey in accordance with proposed Classification society Rules and Regulations.</p>	-	<p><u>This Condition shall be replaced as follows:</u></p> <p>The hull of the dredger including its main engines, generator, electrical & hydraulic installations etc. shall be built and classed for coastal Waterways under the rules and regulations of International Classification Society of BV/Lloyds/NKK /ABS/DNV.GL. The appropriate class notations for fully classed hull and fully classed machinery to be mentioned in the offer:</p> <p>Full Class Notation (Hull): Means ship's hull design, hull materials used and constructions done under the proposed classification societies Special Survey in full compliance with the Rules and regulations. Hull notation shall be mentioned at the technical specification.</p> <p>Example- ✕100A1 or Equivalent.</p> <p>Full Class Notation (Machinery): Means all propelling and essential auxiliary machinery to be designed, constructed, installed and tested under Special Survey in accordance with proposed Classification society Rules and Regulations.</p> <p>Example- ✕LMC or Equivalent.</p>
22.	Section 7 Sl no 1.01 of	Length hull (about)- 64.00 m	Length hull (about)- 86.00 m	Length hull (approx.)- 70.00m

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	Technical Specification	Breadth (about) - 12.00 m	Breadth (about) - 10.45 m	Breadth (approx.) - 11.00 m
		Depth (about)- 4.50 m	Depth (about)- 4.00 m	This conditioned shall remain unchanged.
		Inner diameter suction pipe- 550-600 mm	Inner diameter suction pipe- 500 mm	Inner diameter suction pipe (approx.)- 500 mm
		Speed loaded (minimum)- 10.5 knots	Speed loaded (minimum)- 8.1 knots	Speed loaded (not less than)- 9.0 knots
23.	Section 7 Sl no 1.03 of Technical Specification	<u>Dredging performance (loading):</u> Approx. 60 minutes at 15-20-meter dredging depth <u>Dredging performance (unloading):</u> Approx. 60 minutes at 1000-meter discharge distance.	<u>Dredging performance (loading):</u> 70-90 minutes at 15-meter dredging depth <u>Dredging performance (unloading):</u> 70-90 minutes at 1000-meter discharge distance.	Dredging performance (loading) shall remain unchanged. Dredging performance (unloading) shall be replaced as follows: Maximum 90 minutes at 1000-meter discharge distance.
24.	Section 7 Sl no 1.04 of Technical Specification Dredging Installation	Dredge pump with proven >80% efficiency when pumping water. Material hardness for pump casing - Brinell (ball) 140 to 250. Country of Origin of dredge pump: EU Countries/ USA/ UK/ Australia/ Canada/ Japan.	Dredge pump with proven >85% efficiency when pumping water. Material pump casing: Mohard. Country of Origin of dredge pump: EU Countries	<u>This Condition shall be replaced as follows:</u> Dredge pump with proven >80% efficiency when pumping water. Material hardness for pump casing –Brinell (ball) 140 to 250 or better quality. Country of Origin of dredge pump shall remain unchanged.
25.		<u>Turning gland:</u> Turning gland shall have the capacity to turn approx. 2 x 30°, complete with welding neck flanges.	<u>Turning gland:</u> Execution of the turning gland as per related supplier's standard for inland TSHD of this capacity.	<u>This Condition shall be replaced as follows:</u> Execution of turning gland shall be in discretion of supplier's standard following rules and regulation of classification society.

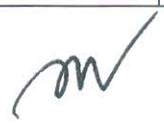
Sl. No	Tender clause no	Tender Conditions given by BIWTA	Questions/Clarifications sought by the prospective tenderer	Answers/Clarifications
		<p>Cardan hinge: Pivoting approx. +40° to - 40°, complete with pivoting arms and cardan ring welded as a box-construction, heavy duty pipe of min. 14 mm wall thickness including welding neck flanges, rubber suction hose with min. 12 mm wear layer, rubber fender on cardan ring, and one long flexible pressure hose for the jet water connection.</p>	<p>Cardan hinge: For inland dredging, it is not considered.</p>	<p><u>This Condition shall be replaced as follows:</u> Execution of Cardan hinge shall be in discretion of supplier's standard following rules and regulation of classification society.</p>
		<p>Single hinge: Pivoting approx. +40° to -40° complete with pivoting arms welded as a box-construction, heavy duty pipe of min. 14 mm wall thickness including welding neck flanges suction hose with min.12 mm wear layer and a flexible pressure hose for the jet water connection.</p>	<p>Single hinge: Execution of the hinge as per related supplier's standard for inland TSHD of this capacity</p>	<p><u>This Condition shall be replaced as follows:</u> Execution of Single hinge shall be in discretion of supplier's standard following rules and regulation of classification society.</p>
26.	Section 7 Sl no 1.05 of Technical Specification Suction Pipe Hoisting Arrangement	<p>Drag head winch: Hydraulically driven type of adequate strength with a single grooved drum, suitable to accommodate the hoisting wire in one layer. Strength calculation to be provided. Hydraulic drive and steel cable of appropriate dia and sufficient length to be supplied. Pulling force to be mentioned.</p>	<p>Drag head winch: One hydraulic driven draghead winch, with a pulling force and storage capacity in line with the suction pipe design, wire stored in 3 layers.</p>	<p><u>This Condition shall be replaced as follows:</u> One hydraulic driven draghead winch, with a pulling force and storage capacity in line with the suction pipe design, wire stored in 1-3 layers.</p>

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		<p><u>Swell compensating system:</u> A hydraulic swell compensator will be provided to regulate suction head pressure and compensate for wave movements to keep the drag head in position above an undulating seafloor with a hydraulic cylinder in the swell compensator to be connected to an accumulator that generates sufficient hydraulic pressure to compensate for movement up of about 2.5 meters of the drag head in relation to the ship.</p> <p>Compensation of vertical movement of about 2.5 meters of the drag head in relation to the ship.</p>	<p><u>Swell compensating system:</u> For inland water dredging at relatively shallow water, generally no and little waves, no swell compensator is foreseen. However, if required, a swell compensation system for a wave height of 1 metre can be foreseen.</p>	<p>This conditioned shall remain unchanged.</p>
27.	Section 7 Sl no 1.06 of Technical Specification Hopper Arrangement t	<p><u>Bottom doors:</u> 4 bottom doors, each operated by a hydraulic cylinder, remote controlled from the wheel house and with necessary arrangements for maintenance.</p>	<p><u>Bottom doors:</u> 2 conical bottom doors per hopper, each operated by a hydraulic cylinder, remote controlled from the wheel house and with necessary arrangements for maintenance.</p>	<p><u>This Condition shall be replaced as follows:</u> 2 conical bottom doors per hopper, each operated by a hydraulic cylinder, remote controlled from the wheel house and with necessary arrangements for maintenance.</p>
		<p><u>Self-emptying:</u> 4 self-emptying suction points each with a hydraulic operated gate valve that delivers the soil to a bow coupling unit or a rainbow nozzle.</p>	<p><u>Self-emptying:</u> 1 self-emptying suction point per hopper will be foreseen.</p>	<p><u>This Condition shall be replaced as follows:</u> Minimum 1 (one) self-emptying suction points each with a hydraulic operated gate valve that delivers the soil to a bow coupling unit or a rainbow nozzle.</p>

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		<p>Overflow: Hydraulic operated adjustable telescopic type overflow of adequate diameter remote controlled from the wheel house.</p>	<p>Overflow: An overflow will be integrated in the end wall of each hopper. The overflow height of the overflow can be regulated by means of wooden planks, which will be manually placed.</p>	<p>This conditioned shall remain unchanged.</p>
		<p>Diluting system: Diluting system of proven design with adequate number of sections, nozzles and butterfly valves for adequate unloading, fed from the jet water pump.</p>	<p>Diluting system: One loop per hopper with adequate number of nozzles for unloading. For each hopper, two manually operated jet monitors will be foreseen.</p>	<p>This Condition shall be replaced as follows: Appropriate Diluting system shall be provided.</p>
28.	Section 7 Sl no 1.07 of Technical Specification Dredge Control System	<p>Dredging monitoring: - draught and loading measuring system - suction tube vertical position measuring system</p>	<p>Dredging monitoring: - draught measuring system - suction tube vertical & horizontal position measuring system</p>	<p>This Condition shall be replaced as follows: - draught measuring system - suction tube vertical & horizontal position measuring system</p>
29.	Section 7 Sl no 1.08 of Technical Specification	<p>Main engines for propulsion: Make: Heavy-Duty Diesel Marine Engine of reputed make certified by classification society.</p>	<p>Main engines for propulsion: Heavy-Duty Diesel Marine Engine of reputed make, certified by classification society, if required for mentioned class' notation.</p>	<p>This Condition shall be replaced as follows: Heavy-Duty Diesel Marine Engine of reputed make, certified by classification society, if required for mentioned class' notation.</p>
		<p>Dredge pump Diesel engine: Make: Heavy-Duty Diesel Marine Engine of reputed make certified by classification society. Power: Appropriate power to produce dredge pump output of approx. 1800 m³/hr at 1330 kg/m³ over 1,000-meter pipeline distance.</p>	<p>Dredge pump Diesel engine: Make: Heavy-Duty Diesel Marine Engine of reputed make, certified by classification society, if required for mentioned class' notation. Power: 405 kW will be installed to produce a dredge pump output of approximately 1200 m³/hr at 1250 kg/m³ over 1000-meter pipeline distance.</p>	<p>This Condition shall be replaced as follows: Make: Heavy-Duty Diesel Marine Engine of reputed make, certified by classification society, if required for mentioned class' notation. Power: Appropriate power to produce dredge pump output in line with the dredging performance (as stated in serial no: 22) at 1330 kg/m³ over 1,000-meter pipeline distance.</p>

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30.	Section 7 Sl no 1.09 of Technical Specification	<p><u>Main generator:</u> Make: Diesel Marine Generators of reputed make certified by classification society. Power: Appropriate power (Approx. 2x250ekw) for on board all the electrical equipment and complying with class requirements.</p>	<p><u>Main generator:</u> Make: Heavy-Duty Diesel Marine Engine of reputed make, certified by classification society, if required for mentioned class' notation. Power: Approximately 2x180 ekW for onboard electrical equipment will be installed.</p>	<p><u>This Condition shall be replaced as follows:</u> Make: Diesel Marine Generators of reputed make certified by classification society. Power: 02 (Two) separate units of generator to be provided each of which power shall be sufficient for all the electrical equipment on board and to be complied with class requirements. Power of 02 (two) separate units of generator to be mentioned in the tender.</p>
		<p><u>Emergency/ Harbour generator:</u> Make: Diesel Marine Generators of reputed make certified by classification society. Power: Appropriate power (approx. 1X120ekw) for supplying the essentials during an emergency.)</p>	Not foreseen, since not required	This conditioned shall remain unchanged.
31.	Section 7 Sl no 1.10 of Technical Specification Ship Equipment	<ul style="list-style-type: none"> - Electric hydraulic steering gear - Two electrically driven windlasses on forecastle deck - Electrically driven capstan on aft deck - Two stockless bow anchors of high holding power type - Sufficient length of stud link chain cable - Bollards, fairleads and mooring ports - Steel wire towing cable and polypropylene mooring ropes - Motor rescue boat with davit and two automatic inflatable life rafts according to SOLAS 	Ship equipment will be foreseen as required by class and authorities.	<p><u>This Condition shall be replaced as follows:</u> Ship equipment will be provided as required by class and authorities. Country of Origin of all ship equipment shall be EU Countries/ USA/ UK/ Australia / Canada/ Japan.</p>

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		<p>requirements</p> <ul style="list-style-type: none"> - Signal masts on forecastle deck and deckhouse, - Sufficient hoisting gears for maintenance - Paint locker is situated on the forecastle deck. -Tools for maintenance of diesel engines, generators and dredging-installation. <p>All the above equipment should comply with the rules and regulations of classification society.</p> <p>Country of Origin: EU Countries/ USA/ UK/ Australia / Canada/ Japan.</p>		
32.	<p>Section 7 Sl no 1.11 of Technical Specification Fire Detection System</p>	<p>A class approved fire detecting and alarm system shall be installed according to Classification society requirement.</p> <p>Detectors shall be installed in accommodation in accordance with SOLAS. A fire system in accordance with Class and Flag regulations is to be installed in accordance with the following:</p> <p>Two Fire pumps of the vertical, centrifugal self-priming shall be provided. The capacity is to be in accordance with classification requirements.</p> <ul style="list-style-type: none"> • One located in the main machinery space, Fire Pump; • One located in the Forward pump room, the emergency fire pump. 	<p>In so far as required by class related to mentioned class' notation</p>	<p><u>This Condition shall be replaced as follows:</u> Fire Detection System shall be provided as per the mentioned class notation.</p>



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33.	Section 7 Sl no 1.12 of Technical Specification Fixed Fire Extinguishing System	The engine room is to be equipped with a full CO2 gas flooding firefighting system in accordance with Classification society requirement. A self-contained CO2 system consisting of gas bottles, quick operated valves and auto alarms is to be provided for the emergency generator room. A system for thruster room and bow thruster room as required by Class shall be provided. A system for the Galley exhaust hood and duct as required by SOLAS and stored in the Galley shall be provided.	In so far as required by class related to mentioned class' notation	<u>This Condition shall be replaced as follows:</u> Fixed Fire Extinguishing System shall be provided as per the mentioned class notation.
34.	Section 7 Sl no 1.15 of Technical Specification	Deck Crane: 1. One foldable telescopic deck crane with lifting capacity of minimum 3 ton at 10m is to be provided serving the drag head and the hatches above the engine room with electric driven or hydraulic driven or electro-hydraulic driven mechanism. 2. One foldable telescopic crane of sufficient capacity is to be provided with pipe handling attachments with electric driven or hydraulic driven or electro-hydraulic driven mechanism.	1. One fixed boom crane with lifting capacity of 2.5 ton at 8 m will be provided located at the centerline aft of the loading area, capable of lifting the drag head. 2. One fixed boom crane with lifting capacity of 2 ton at 8 m will be provided located at the pump room at the centerline.	<u>This Condition shall be replaced as follows:</u> 1. One fixed boom crane with lifting capacity of minimum 2.5 ton at 8 m is to be provided serving the drag head and the hatches above the engine room with electric driven or hydraulic driven or electro-hydraulic driven mechanism. 2. One fixed boom crane of sufficient capacity is to be provided with pipe handling attachments with electric driven or hydraulic driven or electro-hydraulic driven mechanism.

Sl. No	Tender clause no	Tender Conditions given by BIWTA	Questions/Clarifications sought by the prospective tenderer	Answers/Clarifications
35.	Section 7 Sl no 1.21 of Technical Specification	<u>Black Water System:</u> A gravity black water system is to be fitted, leading to a collector tank located in the machinery space. The tank is to be sized for twenty (20) persons and comply with the requirements of the classification society, MSC and MARPOL. Liquids are to be discharged overboard through a shipside valve or, when working in waters that prohibit the discharge of such liquids, into a black water holding tank. A sewage transfer pump is to be installed which can discharge the contents of either the grey water tank, black water tank or sewage treatment plant to shore through an international waste water discharge connection (MARPOL connection).	<u>Black Water System:</u> A gravity black water system is to be fitted, leading to a collector tank located in the machinery space. The tank is to be sized for 25 persons and comply with the requirements of the classification society as applicable. Liquids are to be discharged overboard through a shipside valve or to deck, to be delivered to shore.	This conditioned shall remain unchanged.
36.	Section 7 Sl no 1.21 of Technical Specification	<u>Navigation and communication equipment:</u> - daylight signaling lamp (ALDIS) - bridge navigation watch alarm system (BNWAS) - radar installation - automatic Identification System (AIS) - long-range identification and tracking system (LRIT) - gyro compass with repeater - auto pilot - ship Security Alert System (SSAS)	<u>Navigation and communication equipment:</u> - no daylight signaling lamp (ALDIS) will be foreseen for inland navigation. - no bridge navigation watch alarm system (BNWAS) will be foreseen for inland navigation. - radar installation, comprising one 3 cm (9 GHz) true motion ARPA radar installation. - no automatic Identification System (AIS) will be foreseen for inland navigation. - no long-range identification and	This conditioned shall remain unchanged.

Sl. No	Tender clause no	Tender Conditions given by BIWTA	Questions/Clarifications sought by the prospective tenderer	Answers/Clarifications
			tracking system (LRIT) will be foreseen for inland navigation. - no gyro compass with repeater will be foreseen for inland navigation. - no auto pilot will be foreseen for inland navigation. - no ship Security Alert System (SSAS) will be foreseen for inland navigation.	
37.	Section 7 Sl no 1.29 of Technical Specification Other Installations and accessories	a) Pump: - 1 Emergency Fire Pump	a) Pump: - not required for inland navigation	This conditioned shall remain unchanged.
		- 1 bilge ejector	- not considered	
		- 1 bilge oily water separator	- not required for inland navigation	
		- 1 sewage treatment unit	- only a collecting tank is foreseen, with pump out possibility to deck and overboard.	
		- 2 fuel oil transfer pumps	- 1 fuel oil transfer pump	
		- 2 air driven sludge/dirty oil pumps	- 1 portable air driven sludge/dirty oil pump	
		- marine growth protection system for box coolers	- not considered for inland navigation	
		D) Switchboard: The main switchboard & emergency switchboard shall be class approved and certified.	D) Switchboard: The main switchboard shall be class approved and certified.	<u>This Condition shall be replaced as follows:</u> The main switchboard shall be class approved and certified.
38.	Section 7 Sl no 1.33 of Technical Specification Dredge process visualization system	Dredge Monitoring software provides an easy to use state of the art software package which visualizes the dredging process on board. Clear, user-selectable screens show for instance the trailing pipe position, the production and hopper loading process effectively-enabling efficient dredging.	Dredge Monitoring, software and work station as per related manufacturer's standard for inland navigation TSHD. Trailing Pipe Position Indications per related manufacturer's standard for inland navigation TSHD The related cables will run over a service frame, which is a sturdy steel structure	<u>This Condition shall be replaced as follows:</u> Dredge Monitoring, software and work station as per related manufacturer's standard for inland navigation TSHD. Trailing Pipe Position Indications per related manufacturer's standard for navigation TSHD. The related cables will run over a service frame,

Sl. No	Tender clause no	Tender Conditions given by BIWTA	Questions/Clarifications sought by the prospective tenderer	Answers/Clarifications
		<p>Dredge Monitoring software runs on an industrial work station with Windows operating software. The system is fed by the necessary dredging sensors, as mentioned below. A remote data collection box for installation in the dredge pump room is included.</p> <p>Dredge Desk Work Station: The system is operated from the dredge desk work station, which consists of an industrial PC with 17" dimmable screen and tracker ball operation, Windows and Dredge Monitoring visualization software, interfaced with the various sensors as listed below. The work station is reserved for the Dredge Monitoring software and visualization only.</p> <p>Dredge Monitoring software consists of 5 separate modules:</p> <ol style="list-style-type: none"> 1. Trailing Pipe Position Indication; 2. Draught; 3. Swell compensator; 4. Overflows; 5. Sensor Diagnostics; 6. Remote access; 7. Loading; 8. Production. 	<p>for guiding and protecting the cables from the trailing pipe to deck.</p>	<p>which is a sturdy steel structure for guiding and protecting the cables from the trailing pipe to deck.</p>



Sl. No	Tender clause no	Tender Conditions given by BIWTA	Questions/Clarifications sought by the prospective tenderer	Answers/Clarifications
39.	A-2: AUXILIARIES AND SERVICES FOR DREDGER	<p>1. Training in Bangladesh On job training is to be arranged for Engineers & Operators (dredger operation crew, engine room crew and repair & maintenance crew) on all equipment of dredger.</p> <p>The training period should be at least 10 (ten) days for 20 (twenty) persons. The training is to be held within the warranty period.</p> <p>Accommodation, food, transport and all allowances to be arranged by the supplier for the trainees.</p>	<p>upon commencing of the warranty period, 10 consecutive days of on-board training for 20 persons will be provided.</p> <p>Accommodation, food, transport and all allowances to be arranged by the supplier for the trainers // it however is strongly preferred that the trainers can stay on board during this period.</p>	<p>This conditioned shall remain unchanged.</p>

40. All other terms & conditions in the tender document shall remain unchanged.


 11/11/2024
 (Md. Abdul Matin)
 Chief Engineer (Dredging)
 &
 Project Director