

Clarifications & comments of HDC, KoPT.

Queries/Observations/Suggestions/Requests for clarification of the prospective bidders and clarifications/comments of HDC, KoPT with respect to Pre-bid Techno-commercial Conference held on 30th October, 2018.

Subject:

Tender No. **SDM(P&E) T/14/2018-2019** [e-Tender No. **KoPT/Haldia Dock Complex/P&E Div/17/18-19/ET/296**] for "Design, manufacture, supply, installation, testing, commissioning & guaranteeing the performance of **1 (one) no. Rail Mounted Quay Crane (RMQC), 40 T lifting capacity under Spreader at 40 m outreach**, at General Cargo Berth, Haldia Dock Complex, Kolkata Port Trust, Dist.: Purba Medinipur, West Bengal, India."

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1.	<u>5.2.1.3</u> The structure shall be of welded construction. For major load carrying members, as far as possible, welded plate girders or box girder construction shall be used. Welding at site shall not be permitted, except in very special instances and all joints shall be designed for bolted assembly, with High Strength Friction Grip Bolts. (Page No. 99)	What is very special instances please describe in brief.	It means only critical joints welded at site.
2.	5.2.4.4 All the Hydraulic Power Packs, to be used in the RMQC, shall be of same make, as per the LOM (List Of Manufacturers). As far as possible, components of Hydraulic Power Packs shall be of same reputed make. (Page No. 100)	Manufacturer of Emergency brake is SIBRE which comes with hydraulic power pack. Please include it in LOM.	Included SIBRE make in the list.

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3.	<p><u>5.2.6.1</u> General:</p> <p>a) In the design and construction of the RMQC, all normal safety provisions shall be observed. It shall be the responsibility of the Contractor to ensure that the RMQC satisfies, in every respect, the statutory requirements of the following:</p> <ul style="list-style-type: none"> - Indian Factories Act - Indian Electricity Rules - Indian Electricity Act - Dock Workers (Safety, Health & Welfare) Act, 1986 <p>b) The Contractor shall be responsible for obtaining approvals from the concerned authorities.</p> <p>(Page No. 101)</p>	Does it contain CEA approval? CEA approval scope(HDC/ MBECL) to be confirmed.	RMQC not required CEA approval.
4.	<p>5.2.6.8 (G) 3.3 kV disconnecting switch for Junction Box of Feeder Cable and Trailing Cable shall be installed, at a suitable position, for the purpose of switching off main 3.3 kV supply, in case of preventive maintenance/emergency.</p> <p>(Page No. 103)</p>	Location and scope of supply to be confirmed.	Trailing cable should be connected from HDC junction box i.e. 320 Mtrs. from bell mouth.
5.	<p>5.2.6.8 (X) It will be possible to control all operations from local control at reduced speed. One (1) Pendant Control Station shall be provided for the said purpose, which can be operated, through Radio Frequency, from a suitable safe distance from the RMQC.</p> <p>(Page No. 104)</p>	Is it for maintenance purpose ? Remote control station should be hand held type for maintenance. In case of normal operation location of pendant / range to be confirmed.	Yes, it is for maintenance purpose. It is hand held type, 50 Mtrs. from the center of the Bogie.

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6.	<p>5.2.6.9 Emergency Stop Buttons</p> <p>All Emergency Stop Buttons shall be recessed, to prevent it being actuated accidentally or unintentionally.</p> <p>Emergency Stop Push Buttons shall be provided as follows:</p> <p>(i) 1 (one) no. in the Operator's Cabin.</p> <p>(ii) 2 (two) nos. in the Machinery House -1 (one) at each end.</p> <p>(iii) 5 (five) nos. in the RMQC legs, at the Dock level -2 (two) on landside, 2 (two) on seaside and 1 (one) fitted inside the Checker's Cabin.</p> <p>(iv) 1 (one) no. in the Trolley.</p> <p>(v) 1 (one) no. on the Spreader.</p> <p>(vi) 1 (one) no. at the Boom end.</p> <p>(vii) 1 (one) no. at the Girder end.</p> <p>(viii) 1 (one) no. in Electrical Room.</p> <p>(ix) 1 (one) no. at the Boom-Girder centre.</p> <p>(x) 1 (one) each at all the Control Panels.</p> <p>(Page No. 104)</p>	Emergency Stop Push Button 1 (one) each shall be considered at major Control Panels	Tender conditions are minimum. However, emergency stop push buttons may be provided based on the Manufacturer's standards.
7.	<p>5.2.6.8 (H) An indicator for the Boom Hoist to indicate the tension on the Wire Rope and to trip the operation when overload occurs.</p> <p>(Page No. 103)</p>	HDC need Only tension meter or load pin (for load indicator) type for boom hoist. The indicator unit needs to be mentioned.	Boom tension / load indicator shall be considered.
8.	<p>5.2.6.8 (L) Load Cells shall be to give the Operator the following information, through a display:</p> <p>i) Load eccentricity and tripping of Hoist Drive at uneven load.</p>	Tolerance level to be mentioned for uneven load.	As per FEM standard.

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	ii) 98% of the full load. iii) 100% load alarm signal. iv) Actual load read out. (Page No. 103)		
9.	5.2.6.10(B) Long Travel Drive with Anti-skewing Device. (Page No. 105)	Long Travel Drive with anti skewing device - We understand that GT1 & GT2 groups are distributed & formed in combination of both Land side and Sea side motors, hence no skew correction can be implemented.	As per FEM standard.
10.	5.3.3.1(B) The hoisting motion shall be through Electrically driven Parallel Shaft Reducer and fitted with self-adjusting Brakes arranged to fail to safety. Each Brake shall be capable of taking 150% of full load Motor torque. The Brakes will be of Electro-hydraulic Thruster Disc type, with manual release. Brake Slip Sensor shall be provided to detect % slippage of Brake. The Brake Slip Sensor should be able to sense the wear of the Brake Lining and also difference, if any, in Power supplied to the Brake Shoe. (Page No. 107)	Any specific requirement for Brake Slip sensor need to be clarified as it has been a new requirement. (Mech. Observation) Brake slip sensor shall be envisaged for External Brake. But for Integrated Brake motor, Brake slip sensor will not be considered. (Elec. Observation)	Tender condition prevails.
11.	5.3.3.1(C) Separate tension detection device for each Rope shall be provided, to ensure that each Rope carries half the total load, at all times. This device shall also stop the Hoist Motor in the event of either of the 2 (two) Ropes of a Drum becoming slack and overloading of any 1 (one) of the Ropes. (Page No. 108)	Here we consider tension detection device as Load PIN. . Please confirm.	To avoid rope sag. However, Tender conditions prevails.

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12.	5.3.3.2 (G) A 3 (three) ton Maintenance Winch, with a suitable Drive Rope Drum and Rope, shall be installed at a suitable location above the Boom level (preferably on the front side of the Machine Room), for facilitating maintenance work at any location on reeving of the Rope from this Winch. (Page No. 109)	It is to be noted that the trolley is semi rope type and hence there is no requirement of traverse rope. we propose , rope-changing winches are provided either on the sill beam or are loose supply, which are brought from the store and kept on the ground during rope changing. We shall be providing 2 nos motor driven rope winches with declutching provision on the sill beam as per KCI standard to match with the rope-changing scheme envisaged.	Tender condition prevails.
13.	5.3.3.3 (B) Self-adjusting Brake(s), capable of being manually released, shall be provided on the Motor Shaft to fail to safety. Capacity of the Brake shall not be less than 150% of full load Motor torque. (Page No. 110)	We propose to use electro magnetic disc brake at the motor back side i.e motor inbuilt with Electro magnetic disc brake. Any specific requirement of brake on the motor shaft may please be clarified.	Tender condition prevails.
14.	5.3.3.4 (D) Each drive unit should consist of a Shaft-mounted Bevel Helical Gear unit, with directly flanged on AC Squirrel Cage Motor, with in-built Electro-magnetic Disc Brake. The Gear units should be equipped with Drain and Oil Sample Valves, Sight Glass and Air Breather. The Torque Arm of the drive unit should be connected via a flexible bushing to the 2 (two) Wheel Bogie. (Page No. 110)	Oil sample valve of Geared motor is not clear to us. It is not provided by Geared Motor manufacturer, Please elucidate the point.	Tender condition prevails.
15.	5.3.3.5 (j) (i) OTHER REQUIREMENTS: All Motors shall have IP65 protection. (Page No. 115)	All Motors shall have enclosure protection class of IP-55 instead of IP-65. As per clause no. 5.5.9.4 , page no.115 it has been mentioned IP-55 enclosure protection for Main Hoist, Trolley, Boom Hoist and Gantry motors. Hence, enclosure protection class shall be considered as IP-55.	Tender condition prevails.

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16.	<p>5.3.3.5 (j)(iii) All Terminal Boxes shall be manufactured from Grade SS316 Stainless Steel and shall have IP65 protection.</p> <p>(Page No. 115)</p>	<p>Terminal box for each motor shall generally be Cast iron or as per Motor Manufacturer's standard instead of Stainless steel (SS 316 Grade). Enclosure protection class of Terminal Box for each motor shall be IP-55 instead of IP-65.</p>	<p>Tender condition prevails.</p>
17.	<p>5.3.3.10 (P) The Operator's Cabin shall be fitted with necessary fittings to enable the Employer to install the following equipment, supply and installation of which are not under the scope of the Contractor:</p> <p>(i) RMQC to Control Room Radio Unit</p> <p>(ii) Box location - RDT Unit</p> <ul style="list-style-type: none"> o Modem o Control Panel o Row/Axle Position Indicator o Aerial Unit o Special Cabling Unit <p>(iii) Provision for Power supply to the above units.</p> <p>(Page No. 119)</p>	<p>Control Room Radio Unit along with other items as mentioned in NIT specification, shall be in the scope of Purchaser. Purchaser shall fix the above items at Operator's cabin.</p>	<p>Tender condition prevails.</p>
18.	<p>5.3.3.10(F) All Controls, Indication Panels, on board Computer and Visual Display Unit shall be installed in such a position that the Operator will have clear view to control and regulate the performance and shall be able to transmit data to control Computer system. Supply and installation of the on board Computer and Visual Display Unit are under the scope of the Contractor.</p> <p>(Page No. 118)</p>	<p>Whether Visual Display Unit is a part of PLC or part of CMS. Please confirm.</p>	<p>VDU is a part of PLC with CMS.</p>

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19.	<p>5.3.3.12 (ii) To facilitate replacement of Ropes, self-contained Motor driven Rope-re-reeving Winch devices (compact type) [2 (two) nos.] shall be provided, to ensure rapid and trouble-free re-reeving of Hoist and Cross-traverse Ropes (if applicable). Drum shall be large enough to store 100% of the working length of the Rope. Location of the Winch devices would be in the scope of the manufacturer, i.e., as per OEM standard.</p> <p>(Page No. 120)</p>	<p>It is to be noted that the trolley is semi rope type and hence there is no requirement of traverse rope. we propose , rope-changing winches are provided either on the sill beam or are loose supply, which are brought from the store and kept on the ground during rope changing. We shall be providing 2 nos motor driven rope winches with declutching provision on the sill beam as per KCI standard to match with the rope-changing scheme envisaged.</p>	<p>Tender condition prevails.</p>
20.	<p>5.3.3.12 Machinery House.</p> <p>i) An all Steel construction and weather-proof Machinery House shall be provided on the RMQC Girder structure, to house all the equipment for load (Container, etc.) hoisting, Boom hoisting, Transformer and related Switchgear, etc. The structure shall be designed to withstand heavy monsoon downpour and calculated wind loading, based on the wind velocities specified in these documents. All walls and roofs shall be made of Galvanized Steel cladding.</p> <p>ii) To facilitate replacement of Ropes, self-contained Motor driven Rope-re-reeving Winch devices (compact type) [2 (two) nos.] shall be provided, to ensure rapid and trouble-free re-reeving of Hoist and Cross-traverse Ropes (if applicable). Drum shall be large enough to store 100% of the working length of the Rope. Location of the Winch devices would be in the scope of the manufacturer, i.e., as per OEM standard.</p> <p>iii) Fire and smoke detection system shall be</p>	<p>To facilitate replacement of Ropes, self-contained Motor driven Rope-re-reeving Winch devices [2 (two) nos.] shall be provided in the Machinery House, to ensure rapid and trouble-free re-reeving of Hoist and Cross-traverse Ropes.</p> <p>- This feature possible in our MBE/Kone Cranes design. Crane is not equipped with cross-traverse ropes. This cannot be accommodate in Machinery house. This is will be mounted as per previous machine</p>	<p>Provide as per Manufacturer's standard with latest technology.</p>

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	<p>provided, including sound alarm in the Operator's Cabin. Noise level outside the room shall not exceed 80 dB, when all components are in operation and all doors & windows are closed.</p> <p>iv) Heavy Electric Hoist of capacity 10 Ton or capable of handling heaviest part of the Machinery House, whichever is more, shall be provided and also capable for lifting components from ground level. Hoisting speed in fully loaded condition shall not be less than 4 metres/min.</p> <p>v) A work bench fitted with a vice and additional Steel storage shelf racks and lockable drawers, with required hand tools, shall be provided in a suitable place inside the Machinery House.</p> <p>vi) Suitable trap doors shall be provided in the floor of the Machinery House of adequate strength and dimension, to support and allow the largest piece of equipment to pass through. Floor design shall ensure that any oil spillage will be retained within the Machinery House and not drain on to wharf level through floor opening. Drip Trays shall be provided under each Rope Drum.</p> <p>vii) The Machinery House shall be of adequate size to provide good access to all equipment for maintenance or assembly, equipped with Industrial Fan and sufficient number of Electrical Sockets.</p> <p>a) All doors shall be provided with lock and key.</p>		

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	<p>b) The following accessories shall be provided inside the Machinery House:</p> <ul style="list-style-type: none"> - 2 (two) nos.CO₂type Fire Extinguisher - Telephone - Handset Station for public address - Rechargeable Battery (maintenance-free) operated Emergency Light. <p>viii) Ladder shall be provided for access to the roof and for maintenance of roof lights.</p> <p>(Page No. 120 & 121)</p>		
21.	<p>5.3.3.16 (i) Wire Rope Sheaves shall be made of single piece forged Steel or Rolled Steel and mounted on Anti-friction Bearings/Bush Bearings, as applicable. Groove surfaces to be of hardness 320 BHN minimum.</p> <p>(Page No. 122)</p>	<p>The rope pulleys at the end of the boom are provided to guide the main hoist ropes to the micro motion machinery. These pulleys are acting like guides and will have part rotation (half rotation) only in the event of list/trim/skew control. These pulleys are provided with imported glacier bearings as per KCI standard practice. The same will have no financial difference.</p>	Tender condition prevails.
22.	<p>5.3.3.18</p> <p>(viii) All Gear Reducers for drives of 100 HP and above shall be provided with Bearing Temperature Detectors with 2 (two) stage switches for alarm and trip, with all connections etc.</p> <p>(x) Bearing Seals shall be labyrinth design to prevent oil leakage and intrusion of contaminants into the Bearings.</p> <p>(xv) Equipment shall be designed to operate with a noise level not exceeding 80</p>	<p>VIII- All Gear Reducers for drives of 100 HP and above shall be provided with Bearing Temperature Detectors with 2 (two) stage switches for alarm and trip, with all connections etc. Please note we have not supplied Gearboxes with above sensor switches. Specification is not clear, It is not possible to monitor all the bearings inside gear reducer. It is not applicable in Geared motor</p>	Tender condition prevails.

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	<p>decibels, measured at a distance of 1.2 m from Reducer, at a height of 1.5 metres above floor level.</p> <p>(Page No. 124)</p>	<p>also.</p> <p>X -Bearing Seals shall be labyrinth design to prevent oil leakage and intrusion of contaminants into the Bearings.</p> <p>We don't have labyrinth seals. We will deliver reducers with regular radial shaft seals.</p> <p>XV-Equipment shall be designed to operate with a noise level not exceeding 80 decibels, measured at a distance of 1.2 m from Reducer, at a height of 1.5 meters above floor level. This to be checked and clarified. We don't know how to measure and verify this thus there are other noise sources in same space (motor).</p>	
23.	<p>5.3.3.19 (v) (b) <u>Trolley Drive</u>:</p> <p>All Motors to be provided with Electro-hydraulic Thruster Disc Brake.</p> <p>(Page No. 124)</p>	<p>Why Electro-hydraulic Thruster Disc Brake is required for trolley. We propose to use motor with electro magnetic disc brake.</p>	Tender condition prevails.
24.	<p>5.3.3.20 (i) Bearings shall be of anti-friction type, with a minimum life expectancy compatible with the class of the mechanism with which they are used, unless specified otherwise.</p> <p>(vii) The Plain Bearings shall have grease grooves and preferably a labyrinth type of Seal to prevent ingress of dust particles to the Bearings. The Bearings shall have minimum life expectancy as mentioned below:</p> <p>(a) Bearings for Hoist and Trolley shall be selected for a minimum life expectancy of</p>	<p>We propose that all Bearing Housings and Pillow Blocks shall be fitted with labyrinth type Seals, We purpose to deliver rope drum bearing housing with regular radial shaft seals.</p> <p>Further we propose that The bearing housings / Pillow blocks provided for main hoist and boom hoist rope drums shall be fabricated from high strength steel plates (St 52.3 / SAILMA 350 HI) because of its requirement instead of cast steel housings as mentioned in the specification. Since the bearing housings are of improved material, the financial</p>	Tender condition prevails.

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	<p>20,000 hours.</p> <p>(b) Bearings for Hoist Boom system and Gantry Drive shall be selected for a minimum life expectancy of 10,000 hours.</p> <p>Regarding life expectancy of Bearings, Bearing manufacturer will have to give a certificate.</p> <p>(Page No. 125)</p>	<p>implication is on the plus side for the crane manufacturer.</p>	
25.	<p>5.3.3.23(ii) Long Travel Wheels shall have cylindrical treads with double flanges. Tread diameter and flange dimension shall be according to IS 1136 and IS 3177 respectively.</p> <p>(Page No. 126)</p>	<p>The trolley wheels are single flanged as double flanged wheels will not allow passage of the wheels over this area. The specification clause asks for double flanged wheels and the same has been provided for gantry wheels.</p>	<p>Tender condition prevails.</p>
26.	<p><u>5.4.4 MATERIALS:</u></p> <ul style="list-style-type: none"> - All Structural Steel shall conform to IS:2062 & IS:8500 for High Tensile Steel, wherever applicable. - All Mild Steel for Bolts and Nuts, when tested, shall have Mechanical properties as per Property Class 6.6 Table 8 in IS:1367. - All High Tensile Steel for Friction Grip Bolts shall have Mechanical properties corresponding to Symbol 8 G or 10 K of Table V in IS:1367. <p>(Page No. 129)</p>	<p>All structural steel shall conform to IS:2062 latest</p>	<p>IS:2062 with latest amendments.</p>
27.	<p>5.5.2.7 The Electrical equipment to be provided for the RMQC includes the following main items. However, the tenderer shall understand that this list is of a general nature only.</p> <ul style="list-style-type: none"> - Capacitor Banks. 	<p>All VVVF drives are equipped with capacitors. We purpose not to provide separate capacitor bank. (Mech. Observation)</p> <p>Capacitor Banks are not required as the VVFD will be used for RMQC & same will act for</p>	<p>Provide capacitors for both power factor and harmonic improvement.</p>

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	(Page No. 130)	power factor improvement. (Elec. Observation)	
28.	5.5.5.2 Power Transformer: 3-phase, 3.3 kV / 415 V, 50 Hz \pm 3%. (Page No. 132)	Secondary Voltage 415 V or 433 V to be confirmed.	Secondary voltage - 433 Voltage.
29.	5.5.9.2 The Voltage rating of all AC Motors should be 415 V, 50 Hz. The Motors for Main Hoist, Trolley, Boom Hoist and Gantry should be provided with Class 'F' insulation (temperature rise limited to Class 'F'), special Insulation Features (Dual Coat Winding, Vacuum Pressure impregnation, etc.) and insulated Bearings (for Frame Size > 280) for operation with VVVF drives. The Motors for Main Hoist, Trolley, Boom Hoist and Gantry of the RMQC shall be of minimum IE2 Efficiency Class. All other AC Motors should be of Class 'F' insulation. (Page No. 136)	For continuous (S1) duty motor Efficiency class shall be IE2 but for Crane duty motor the efficiency class will not be IE2 as the same is not S1 duty.	Tender condition prevails.
30.	5.5.10.1 (g) All adjustment of setting for the drives shall be digital and shall be effected through digital keypads with liquid crystal displays, with password, so as to ensure that accurate adjustment can be made by the maintenance staff, if any requirement arise. (Page No. 137)	Drive parameter adjustment shall be possible through CMS PC installed inside E-room, whereas display of status would be possible through LCD on each Inverter & rectifier Panel door.	Tender condition prevails.
31.	5.5.10.1 (i) All Drives shall be equipped with capabilities to protect the control circuitry. Back-up protection for the Drive system shall be provided by Circuit	Semi-conductor fuses shall be provided for protection of power electronic devices in Panels or inside drives.	Tender condition prevails.

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	<p>Breakers external to the Drives. No Fuses shall be used for back-up protection.</p> <p>(I) AC Drives shall be incorporated with full minimum protection against fault conditions inclusive of feedback loss, phase loss, over current (Electronic fuse-less sub-cycle trip), sustained overload, over temperature, processor scan failure (watchdog timer), internal Power supplies out-of-range, Power circuit discontinuous.</p> <p>(Page No. 138)</p>		
32.	<p>5.5.10.1(k) Data and information about the behaviour of minimum 8 (eight) different signals during each fault condition, for up to minimum 100 previous faults, shall be retained by the Drives, even if the Power supply is turned off. Diagnostic messages shall be displayed in the LCD Screens of digital keypads.</p> <p>(Page No. 138)</p>	We propose to allow it up to UPS standby time.	Tender condition prevails.
33.	<p>5.5.16.3 Flood lights shall be so arranged that the minimum illumination on ground level shall be as follows:</p> <p>(i) Under the Boom and Girder - 80 lux</p> <p>(Page No. 144)</p>	Walkways, Stair and Access Ladder : We propose that average 80 Lux instead of Minimum 80 LUX requirement.	Tender condition prevails.
34.	<p>5.5.17.2 Computerised Crane Management shall be installed on the RMQC and working in conjunction with the PLC will provide continuous monitoring, diagnostics and data collection on the RMQC's</p>	<p>i) GSM Cellular network SIM card for SMS message shall be in HDC/ End User's scope.</p> <p>ii)CMS + 3 web client (additional remote</p>	Tender condition prevails.

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	operating system and main machinery components. CMS shall operate independent of the Computer aided operation system. System should be able to transmit CMS information to a maximum of 3 (three) additional remote PC/Laptop, at a time, where the CMS screens - as can be viewed in the Computer in the Electrical Control Room - can also be viewed. Wave Navigator Licence or similar licence, if required for this purpose, shall be provided by the Contractor. System should also be equipped with provision for sending of important information of RMOQC status and alarm/fault messages as SMS message using the GSM cellular network. (Page No. 145)	connection) license will be provided but required hardware will not be provided except CMS PC which will be installed in E-room & Operator cabin HMI display in Operator cabin	
35.	5.6 PAINTING REQUIREMENT (Page No. 148)	Painting requirement is not applicable for electrical & instrumentation system	For structural work.
36.	<u>5.9.2.3</u> INSPECTION OF WELDING JOINTS: (Page No. 157)	Not applicable for electrical items	For structural work.
37.	5.10 List of Manufacturer GANTRY, MAIN HOIST, BOOM HOIST & TROLLEY BRAKES (Mechanical Parts) -- BUBENZER / SIBRE-SIEGERLAND (Manufacturer) (Page No. 161)	Bidder proposes to consider EMCO make Brake also.	Tender condition prevails.

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38.	<p><u>Clause No. 6.28.6 Berth site occupation</u></p> <p>Maximum 45 (forty-five) days of Berth site occupation will be allowed for erection & commissioning of the new RMQC on the designated Berth. The bidder shall furnish "Method Statement", in this regard, within 2 (two) months from the date of award of contract. If the Contractor occupies the Berth site beyond the stipulated period of 45 (forty-five) days, a penalty @ Rs. 5.00 Lakh per day or part thereof will be imposed for the extra days beyond 45 (forty-five) days, subject to a maximum penalty of 5% of the total contract value.</p> <p>(Page No. 190)</p>	<p>Maximum 90 (ninety) days of Berth site occupation will be allowed for erection & commissioning of the new RMQC on the designated Berth. The bidder shall furnish "Method Statement", in this regard, within 2 (two) months from the date of award of contract. If the Contractor occupies the Berth site beyond the stipulated period of 90 (ninety) days, a penalty @ Rs. 5.00 Lakh per day or part thereof will be imposed for the extra days beyond 45 (forty-five) days, subject to a maximum penalty of 5% of the total contract value.</p>	<p>Tender condition prevails.</p>
39.	<p>6.67 Completion period</p> <p>6.67.1 All the jobs, as per contract (as detailed below), are to be completed within 12 (twelve) months from the date of award of contract:</p> <p>(a)Design, manufacture, supply, installation, testing& commissioning [including clearance from the relevant Statutory Authorities, if and as applicable]of 1 (one) no. Rail Mounted Quay Crane (RMQC)and handing over the same to HDC,KoPT.</p> <p>(b)Supply of Spare Spreader.</p> <p>(c)Training of various categories of personnel.</p> <p>(d)Furnishing detailed Training Manual, Operational & Maintenance Manual and complete Drawings (including As Built Drawings).</p> <p>(e) Any other job, as per the contract.</p> <p>(Page No. 209)</p>	<p>16 months from the date of award of contract</p>	<p>Tender condition prevails.</p>

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40.	<p>6.71.2 Liquidated Damage: If the Contractor fails to complete the work [with respect to Price Schedule Sl. Nos. 1, 2 & 3] within the stipulated dates [as per GCC Clause No. 6.67 (Completion period)] or such extension thereof, as communicated by the Engineer, in writing, the Contractor shall pay as compensation (Liquidated Damage) to the Trustees and not as a penalty, as per the following:</p> <p>i) In case of handing over the RMQC after the scheduled completion period, Liquidated Damage @ ½% of the price of Design, Manufacture, Supply, Installation, Testing & Commissioning of the RMQC [i.e. the price against Price Schedule Sl. Nos. 1 & 2] for every week or part thereof, beyond the scheduled date of completion, will be deducted from the Contractor's bill. Provided always the amount of such compensation shall not exceed 10% of the cost of Design, Manufacture, Supply, Erection, Testing & Commissioning of the Stacker-cum-reclaimer [i.e. the price against Price Schedule Sl. Nos. 1 & 2].</p> <p>ii) If the other jobs, as per contract [as defined in GCC Clause No. 6.67 (Completion period)], remains unfinished after the scheduled completion period, Liquidated Damage @ ½% of the total price against Price Schedule Sl. No. 3 for every week or part thereof, beyond the scheduled date of completion, will be deducted from the Contractor's bill. Provided always the amount of such compensation shall not exceed 10% of the cost of such total price against Price Schedule Sl. No. 3 only.</p>	0.5% for delay of each week subject to maximum of 5 % of equipment value	Tender condition prevails.

Sl. No.	Reference & requirement as per the bidding documents.	Queries/Observations/Suggestions/Requests for clarification	Clarifications/Comments of HDC, KoPT
	(Page No. 213)		
41.	<p>6.73.3.1 Against Price Schedule Sl. No. 1:</p> <p>(i) Payment for 10% amount will be made, upon submission of Design Appraisal Certificate (as per GCC Clause No. 6.53.6) issued by the Third Party Inspection Agency, along with General Arrangement (GA) Drawing of RMQC duly appraised by the Third Party Inspection Agency.</p> <p>(ii) Payment for 60% amount will be made -</p> <p>against receipt of the RMQC, at the designated Berth site, in good condition (duly certified by Marine Insurance Company), verification & certification of the same by the Engineer (supported by Third Party Inspection Certificate) and production of necessary Insurance document(s) by the Contractor [if the RMQC is shipped in assembled condition to HDC, KoPT]</p> <p>Or,</p> <p>against installation/erection of the RMQC at the designated Berth site, verification & certification of the same by the Engineer (supported by Third Party Inspection Certificate) and production of necessary Insurance document(s) by the Contractor [if the RMQC is assembled and erected at HDC's premises].</p> <p>(iii) Payment for 20% amount will be made, after successful completion of installation, testing & commissioning and taking over (as per GCC Clause No. 6.68) of the RMQC.</p> <p>(iv) Payment for 10% amount will be made after completion of all jobs as per contract and on verification of performance of the RMQC, duly certified by the Engineer, in regard to successful</p>	<ul style="list-style-type: none"> • 10% interest free advance against equivalent BG • 10% on submission of approved GA drawing. • 70% on prorata basis on delivery of components as per agreed billing schedule • 10% on successful commissioning. 	<p>6.73.3.1 Against Price Schedule Sl. No. 1:</p> <p>(i) Payment for 10% amount will be made, upon submission of Design Appraisal Certificate (as per GCC Clause No. 6.53.6) issued by the Third Party Inspection Agency, along with General Arrangement (GA) Drawing of RMQC duly appraised by the Third Party Inspection Agency.</p> <p>(ii) Payment for 60% amount will be made -</p> <p>against receipt of the RMQC, at the designated Berth site, in good condition (duly certified by Marine Insurance Company), verification & certification of the same by the Engineer (supported by Third Party Inspection Certificate) and production of necessary Insurance document(s) by the Contractor [if the RMQC is shipped in assembled condition to HDC, KoPT]</p> <p>Or,</p> <p>against installation/ erection of the RMQC at the designated Berth site, verification & certification of the same by the Engineer (supported by Third Party Inspection Certificate) and production of necessary Insurance document(s) by the Contractor [if the RMQC is assembled and erected at HDC's premises], payment for 60% amount will be made as per following :-</p>

Sl. No.	Reference & requirement as per the bidding documents.	Queries/Observations/Suggestions/Requests for clarification	Clarifications/Comments of HDC, KoPT
	loading/unloading of 5,000 TEUs , or after expiry of 3 (three) months from the date of completion of all jobs [as per GCC Clause No. 6.67 (Completion period)], whichever is earlier. (Page No. 215)		<p>a) 36% amount against complete supply of primary structures and secondary structures as per Annexure- 'AA'</p> <p>b) 12% amount against complete supply of major bought out supply items as per Annexure- 'AA' and</p> <p>c) 12% amount against complete supply of electrical items as per Annexure- 'AA'.</p> <p>(iii) Payment for 20% amount will be made, after successful completion of installation, testing & commissioning and taking over (as per GCC Clause No. 6.68) of the RMQC.</p> <p>(iv) Payment for 10% amount will be made after completion of all jobs as per contract and on verification of performance of the RMQC, duly certified by the Engineer, in regard to successful loading/unloading of 5,000 TEUs, or after expiry of 3 (three) months from the date of completion of all jobs [as per GCC Clause No. 6.67 (Completion period)], whichever is earlier.</p>
42.	<p>6.69 Defect Liability Period</p> <p>6.69.1 "Defect Liability Period" of the RMQC (except for the items listed in GCC Clause No. 6.69.4) shall mean the Guarantee Period, which starts from the date of taking over the RMQC [as per GCC Clause No. 6.68 (Taking over of the RMQC by KoPT)] and will continue till expiry of 24 (twenty-four) months, calculated from the date of taking over the RMQC, provided the punch items are closed within</p>	12 months from commissioning or 18 months from delivery whichever is earlier	Tender condition prevails.

Sl. No.	Reference & requirement as per the bidding documents.	Queries/Observations/Suggestions/Requests for clarification	Clarifications/Comments of HDC, KoPT
	6 (six) weeks from the date of taking over the RMQC by HDC, KoPT [as stated in GCC Clause No. 6.68.2]. (Page no. 210)		
43.	<p>1.1.1 Financial Standing :</p> <p>The average annual financial turnover of the tenderer over the past 03 (Three) years shall be at least Rs. 13,95,00,000/- (Indian Rupees: Thirteen Crore Ninety-five Lakh) or equivalent value in foreign currency (US Dollars / Euro).</p> <p>Note: The bidder upload the scanned copies of Annual Financial Turnover Statement (certificate by CA) for the years 2015-16, 2016-17 and 2017-18 or calendar year along with Balance Sheets and Profit & Loss Accounts.</p> <p>(Page No. 02)</p>	<p>Since the audited financial document for previous year (i.e 2018) shall be released usually at the end of March in the next year. Please allows us to submit the latest one (i.e 2017) accordingly.</p>	Tender condition prevails.
44.	<p>5.1 <u>SCOPE OF WORK</u></p> <p>Design, manufacture, supply, installation, testing, commissioning & guaranteeing the performance of 1 (one) no. Rail Mounted Quay Crane (RMQC), 40 T lifting capacity under Spreader at 40 m outreach, at General Cargo Berth, Haldia Dock Complex, Kolkata Port Trust, Dist.: Purba Medinipur, West Bengal, India.</p> <p>5.1.1 <u>The RMQC shall comply with the following:</u></p> <p>5.1.1.1The RMQC shall have Telescopic Spreader and shall be able to handle all ISO loaded and empty Containers, such as 20', 35', 40', 45'.</p>	<p>5.1.1 The RMQC shall comply with the following:</p> <p>5.1.1.1The RMQC shall have Telescopic Spreader and shall be able to handle all ISO loaded and empty Containers, such as 20', 40', 45'.</p> <p>Remarks : It is reasonable to exclude from requirement because 35' containers are very rarely.</p>	To handle loaded and empty container, such as 20', 40', 45'.

Sl. No.	Reference & requirement as per the bidding documents.	Queries/Observations/Suggestions/Requests for clarification	Clarifications/Comments of HDC, KoPT
	(Page No. 97)		
	<p>5.3.3.5 TELESCOPIC SPREADER:</p> <p>The Spreader shall be Electro-hydraulic, Single-lift type, with Twin Twenty Detection System, and suitable for lifting 20', 35', 40' & 45' ISO Containers, with SAFE WORKING LOAD of 40 Tons.</p> <p>(Page No. 111)</p>	<p>The Spreader shall be Electro-hydraulic, Single-lift type, with Twin Twenty Detection System, and suitable for lifting 20', 40' & 45' ISO Containers, with SAFE WORKING LOAD of 40 Tons.</p> <p>Remarks : It is reasonable to exclude from requirement because 35' containers are very rarely.</p>	To handle loaded and empty container, such as 20', 40' and 45'.
45.	<p>5.3 MECHANICAL DESIGN REQUIREMENTS:</p> <p><u>5.3.1 GENERAL:</u></p> <p><u>5.3.3.1 MATERIALS:</u></p> <p>Materials shall be meeting minimum requirements of the following specifications or other Standards specified under SOR Clause No.5.3.1.3:</p> <p>IS Standard</p> <p><u>5.3.1.2 COMPONENTS:</u></p> <p>Items required to be manufactured/ fabricated shall preferably conform to IS code of practice or other Standards specified under SOR Clause No.5.3.1.3.</p> <p>For such considerations, the list of items shall be including, but not limited to, the following:</p> <p>IS Standard</p> <p>(Page No. 105 &106)</p>	<p>5.3.1 GENERAL:</p> <p>5.3.1.1 MATERIALS:</p> <p>IS Standard</p> <p>JIS / KS</p> <p>Other International Standards</p> <p>5.3.1.2COMPONENTS:</p> <p>IS Standard</p> <p>Other International Standards</p>	IS/FEM or equivalent International standard.

Sl. No.	Reference & requirement as per the bidding documents.	Queries/Observations/Suggestions/Requests for clarification	Clarifications/Comments of HDC, KoPT
46.	<p><u>5.3.2 LUBRICATION:</u></p> <p><u>5.3.2.1</u> Group mode lubrication is to be incorporated wherever feasible. Each of the systems shall be designed to ensure positive lubrication at every point and to supply a measured quantity of lubricant to each lubrication point, whenever the Pump is operated.</p> <p>5.3.2.3 All Pipes shall withstand 100% higher pressure than maximum applied by the Pump. Visual indicators shall register any single line blockage. If lubrication is required at moving point, coupled wire braided reinforced lubricant hose shall be used. All grease lines shall be covered and well protected.</p> <p>(Page No. 107)</p>	<p>5.3.2.1 Manual Group mode lubrication is to be incorporated wherever feasible.</p> <p>5.3.2.3 All Pipes shall withstand 100% higher pressure than maximum applied by the Manual Grease Gun. If lubrication is required at moving point, coupled wire braided reinforced lubricant hose shall be used. All grease lines shall be covered and well protected.</p> <p>Remarks : Manual group lubrication system will be applied.</p>	Provide manual lubricants at few critical joints only. However, Tender condition prevails.
47.	<p>5.3.3 EQUIPMENT ASSEMBLY:</p> <p>5.3.3.1 LOAD HOISTING MECHANISM:</p> <p>(D) Where necessary, Catenary Trolleys or Guide Rollers shall be used to prevent extensive Rope slack during operations.</p> <p>(Page No. 108)</p>	<p>Deleted.</p> <p>Remarks : Because the trolley travel length is short, no need to install Catenary Trolley or Guide Rollers.</p>	Tender condition prevails.
48.	<p>5.3.3.5 TELESCOPIC SPREADER:</p> <p>(C) <u>DESIGN STANDARDS:</u></p> <p>The Spreader unit, including its materials and equipment, shall be designed and manufactured in accordance with the requirement of international rules, regulations and standards for such equipment. The Spreader structure</p>	<p>C) DESIGN STANDARDS:</p> <p>The Spreader unit, including its materials and equipment, shall be designed and manufactured in accordance with the requirement of international rules, regulations and standards for such equipment. The Spreader structure shall be suitably designed for minimum 2×10^6 cycles. The Spreader shall</p>	As per accepted manufacturers standard. However, tender condition prevails.

Sl. No.	Reference & requirement as per the bidding documents.	Queries/Observations/Suggestions/Requests for clarification	Clarifications/Comments of HDC, KoPT
	shall be suitably designed for minimum 2 x 10 ⁶ cycles. The Spreader shall be designed for easy maintenance. The Spreader shall be incorporating SHOCK ABSORBING DEVICES at the Twist Lock corners. (Page No. 113)	be designed for easy maintenance. The Spreader shall be incorporating SHOCK ABSORBING DEVICES at the Twist Lock corners. Remarks : The position of the shock absorbing device is in accordance with the spreader supplier's standard.	
49.	5.3.3.5 TELESCOPIC SPREADER: (J) OTHER REQUIREMENTS: (i) All Motors shall have IP65 protection. (Page No. 115)	J) OTHER REQUIREMENTS: i) All Motors shall have IP55 protection.	Tender condition prevails.
50.	5.3.3.5 TELESCOPIC SPREADER: (J) OTHER REQUIREMENTS: (iii) All Terminal Boxes shall be manufactured from Grade SS316 Stainless Steel and shall have IP65 protection. (Page No. 115)	J) OTHER REQUIREMENTS: All Terminal Boxes shall be manufactured from Grade SS316 Stainless Steel and shall have IP55 protection.	Tender condition prevails.
51.	5.3.3.15 WIRE ROPES: (i) All Wire Ropes shall conform to IS 2266. The tensile strength of the Wire shall be 175-190 kg/sq.mm. Minimum factor of safety for Wire Ropes of all mechanism, other than Anti-sway Device, shall be 6 (six). The same for Anti-sway Device shall be minimum 5 (five). (Page No. 122)	i) All Wire Ropes shall conform to IS 2266. The tensile strength of the Wire shall be 175-190 kg/sq.mm. Minimum factor of safety for Wire Ropes of all mechanism, other than Anti-sway Device, shall be 6 (six). Remarks : Electric type anti-sway system will be applied	Accepted latest technology of Electric type anti-sway system.

Sl. No.	Reference & requirement as per the bidding documents.	Queries/Observations/Suggestions/Requests for clarification	Clarifications/Comments of HDC, KoPT
52.	<p>5.9.2.3 INSPECTION OF WELDING JOINTS:</p> <p>(a) Welding work, casting and forging shall be subjected to radiographic or ultrasonic testing as instructed by the Engineer and Test Certificate shall be furnished. The Engineer or his representative or the Third Party Inspection Agency reserves the right to examine the Radiographic Films of welding joints independently. In case of difference of opinion on a Radiographic Film about the soundness of any welding joint between the Contractor and the Engineer, the opinion of any testing laboratory/institute in India approved by Indian Standard Institute shall govern.</p> <p>(iii) The Engineer reserves the right to test radiographically about 3% length of any other welding joints, which are not covered in above para(ii).</p> <p>(Page No. 157)</p>	<p>A) Welding work, casting and forging shall be subjected to radiographic or ultrasonic testing as instructed by the Engineer and Test Certificate shall be furnished. The Engineer or his representative or the Third Party Inspection Agency reserves the right to examine the Untrasonic Test of welding joints independently.</p> <p>.....</p> <p>iii) Deleted, UT shall be applied instaed of RT.</p> <p>Remarks : Because the integrity of the butt welded joints can be verified with the ultrasonic test and the ultrasonic test can shorten the production schedule than the radiography test, so Doosan wants to apply ultrasonic test only.</p>	Tender condition prevails.
53.	<p>5.10 List of Manufacturer:</p> <p>A. Mechanical Parts:</p> <p>4. GANTRY, MAIN HOIST, BOOM HOIST & TROLLEY BRAKES -- BUBENZER / SIBRE-SIEGERLAND</p> <p>5. BEARINGS -- SKF / FAG</p> <p>6. LIFT FOR PERSONNEL -- ALIMAK / CHARNOCK</p> <p>10. PAINT -- HEMPEL / AKZONOBEL / BERGER PAINTS / SHALIMAR PAINTS / ICI / JENSON & NICHOLSON / ASIAN PAINTS / GOODLASS NEROLAC</p> <p>(Page No. 161)</p>	<p>A. Mechanical Parts</p> <p>4. GANTRY, MAIN HOIST, BOOM HOIST & TROLLEY BRAKES -- BUBENZER/ SIBRE-SIEGERLAND ICAN / HILLMAR</p> <p>5. BEARINGS -- SKF / FAG / NTN / NSK</p> <p>6. LIFT FOR PERSONNEL -- ALIMAK / CHARNOCK / S&C</p> <p>10. PAINT -- HEMPEL / AKZONOBEL / BERGER PAINTS / SHALIMAR PAINTS / ICI / JENSON & NICHOLSON / ASIAN PAINTS / GOODLASS NEROLAC / JOTUN / IPK / CABILINE</p>	Tender condition prevails.

Sl. No.	Reference & requirement as per the bidding documents.	Queries/Observations/Suggestions/Requests for clarification	Clarifications/Comments of HDC, KoPT
54.	<p>6.2. Contract Documents</p> <p>6.2.2 In case, any discrepancies or inconsistencies however appear or should any misunderstandings arise as to the meaning and of the specifications or drawings or as to the dimensions or the quality of the materials or the due and proper execution of the work or as to the measurement or quality and valuation of the work executed under this contract or as extra thereupon, the same shall be explained by the Engineer or his authorized representative.</p> <p>6.2.3 The explanation of Engineer or his authorized representative shall be final and binding upon the Contractor and the Contractor shall execute the work according to such explanations, and without extra charge or deductions and do all such work and things as may be necessary for the proper execution of the contract as implied by the specification and drawings, even though such work and things are not specifically shown and described therein.</p> <p>(Page No. 173)</p>	<p>In case the Engineer or his authorized representative cause extra works rather than contract. The contractor is eligible to ask extra cost where happened.</p>	<p>Tender condition prevails. The contractor is not eligible for any extra cost.</p>
55.	<p>6.9 Stamp duty & other expenses</p> <p>6.9.1 All the costs, charges and expenses to be incurred in connection with Contract Agreement, Indemnity Bond, Bank Guarantees, Integrity Pact, etc., including stamp duty, shall be borne by the Contractor.</p> <p>(Page No. 177)</p> <p>6.31 Contractor's price is inclusive of all costs</p> <p>6.31.1 Unless otherwise specified, the Contractor shall be deemed to have included in his bid/offer all his cost for supplying and</p>	<p>Since we are a professional crane maker while unfamiliar to Indian Tax or charges. Therefore, our price shall be exclusive of all taxes, duties, STAMP DUTY, SERVICE TAX, charges, VAT, CIT, Withholding tax if any, all levies that might be occurred in India. These shall be added additionally where applicable.</p>	<p>Tender condition prevails.</p>

Sl. No.	Reference & requirement as per the bidding documents.	Queries/Observations/Suggestions/Requests for clarification	Clarifications/Comments of HDC, KoPT
	<p>providing all constructional plant, temporary work, materials (both for temporary and permanent works), labour (including supervision thereof), transporting to and from the site and in and about the work, including loading, unloading, fencing, watching, lighting, payment of fees, taxes and duties to the appropriate authorities and other things of every kind required for the construction, erection, completion and maintenance of the work.</p> <p>(Page No. 191)</p> <p>6.39 Contractor to indemnify the Trustees against</p> <p>6.39.1 The Contractor shall be deemed to have indemnified the Trustees against all claims, demands, actions and proceedings and all costs arising there from on account of:</p> <p>(b)Payment of all royalties, rent, toll charges, local taxes, other payments or compensation, if any, for getting all materials and equipment required for the work.</p> <p>(c)Unauthorised obstruction or nuisance caused by the Contractor in respect of Public or Private road, railway tracks, footpaths, crane tracks, waterways, quays and other properties belonging to the Trustees or any other person.</p> <p>(d) Damage/injury caused to any highway and bridge on account of the movement of Contractor's plants and materials in connection with the work.</p> <p>(Page No. 193)</p>		

Sl. No.	Reference & requirement as per the bidding documents.	Queries/Observations/Suggestions/Requests for clarification	Clarifications/Comments of HDC, KoPT
56.	<p>6.21 Performance Guarantee/ Security Deposit</p> <p>6.21.1.1 Performance Guarantee/Security Deposit with respect to the RMQC:</p> <p>Within 28 (twenty-eight) days of issuance of "Letter of Acceptance (LOA)", the Contractor shall have to provide an irrevocable and unconditional Bank Guarantee, from a Nationalized Bank/Scheduled Bank in India, in the amount, 10% of the contract value [as defined at GCC Clause No. 6.1.4 a)].</p> <p>This Performance Bank Guarantee should be kept valid and enforceable till a date, covering at least 3 (three) months beyond the date of expiry of the Defect Liability Period of the RMQC. In case the actual duration of the Defect Liability Period of the RMQC is required to be extended, the validity of this Bank Guarantee shall have to be extended till a date, covering at least 3 (three) months beyond the date of expiry of such extended duration of the Defect Liability Period of the RMQC.</p> <p>Failure of the Contractor to submit the required Performance Bank Guarantee, as mentioned in GCC Clause No. 6.21.1.1 and in the manner stated in the PCC, shall constitute sufficient grounds for termination of the contract and forfeiting the Earnest Money Deposit.</p> <p>(Page No. 181)</p>	<p>6.21.1.1 Performance Guarantee/Security Deposit with respect to the RMQC:</p> <p>- Within 28 (twenty-eight) working days of issuance of "Letter of Acceptance (LOA)", the Contractor shall have to provide an irrevocable and unconditional Bank Guarantee, from a Nationalized Bank/Scheduled Bank in India, in the amount, 10% of the contract value [as defined at GCC Clause No. 6.1.4 a)]. This Performance Bank Guarantee should be kept valid and enforceable till a date , covering at least 3 (three) months beyond the date of expiry of GCC Clause No. 6.67 [Completion period] . In case the actual duration of the Defect Liability Period of the RMQC is required to be extended, the validity of this Bank Guarantee shall have to be extended till a date, covering at least 3 (three) months beyond the date of expiry of such extended duration of the Defect Liability Period of the RMQC. Failure of the Contractor.</p> <p>- At least 28 (twenty-eight) days before the scheduled expiry of the Defect Liability Period of the RMQC or any extension thereof, the Contractor shall submit Warranty Bank Guarantee an irrevocable and unconditional Bank Guarantee, from a Nationalized Bank/Scheduled Bank in India, in the amount, 5% of the contract value [as defined at GCC Clause No. 6.1.4 a)]. This Warranty Bank Guarantee should be kept valid and enforceable till a date , covering at least 3 (three) months beyond the date of expiry of the Defect Liability Period of the RMQC.</p>	Tender condition prevails.

Sl. No.	Reference & requirement as per the bidding documents.	Queries/Observations/Suggestions/Requests for clarification	Clarifications/Comments of HDC, KoPT
57.	<p>6.57 Preliminary time to commence work and maintenance of steady rate of progress:</p> <p>6.57.1 The Contractor shall commence the work within 7 (seven) days of the receipt of Engineer's letter informing acceptance of the Contractor's bid/offer by the Trustees or within such preliminary time as mentioned by the Contractor in the "Form of Tender" or the time accepted by the Trustees. The Contractor shall then proceed with the work with due expedition and without delay, except as may be expressly sanctioned or ordered by the Engineer or his Representative, time being deemed the essence of the contract on the part of the Contractor.</p> <p>(Page No. 206)</p>	<p>6.57.1 The Contractor shall commence the work within 7 (seven) days of the receipt of Engineer's letter informing acceptance of the Contractor's bid/offer by the Trustees or within such preliminary time as mentioned by the Contractor in the "Form of Tender" or the time accepted by the Trustees or since we are processing to have advance payment as our proposal under GCC Clause 6.73 [Contract Price] . The Contractor shall then proceed with the work with due expedition and without delay, except as may be expressly sanctioned or ordered by the Engineer or his Representative, time being deemed the essence of the contract on the part of the Contractor.</p>	Tender condition prevails.
58.	<p>6.61.1 Unless stipulated otherwise in the contract, all materials, workmanship and method of measurement shall be in accordance with the relevant Codes (Latest Revision) of the Bureau of Indian Standards and the written instructions of the Engineer or his Representative. Where no specific reference is available in the contract, the material and workmanship shall be of the best of their respective kinds to the satisfaction of the Engineer.</p> <p>(Page No. 207)</p>	<p>Since we as foreign bidder are professional crane make and delivery crane as completed erection. Therefore, all standard applies in manufacturing, it shall comply with International Standard i.g ASTM/ANSI/AISC/AWS instead of Indian Standards.</p>	Tender condition prevails.
59.	<p>6.69.3 During this period, the Contractor shall nominate 1 (one) competent, experienced and responsible technical person, to co-ordinate and execute all works to be attended by the Contractor, as per contractual obligations, without any extra cost to HDC, KoPT.</p> <p>(Page No. 211)</p>	<p>We have many experiences in performing many oversea crane projects especially in JNPT as showed in our experience list. Therefore we ensure the maintenance and service for warranty period of mentioned project shall be performed by a hired local Sub-contractor in compliance with the requirements of Purchaser after awarded the contract, which will be</p>	Tender condition prevails.

Sl. No.	Reference & requirement as per the bidding documents.	Queries/Observations/Suggestions/Requests for clarification	Clarifications/Comments of HDC, KoPT
		evaluated and selected among our local service providers as our Vendor pool by our picky quality management department.	
60.	<p>6.70.1 If any such defects shall appear or damage occur (as detailed in GCC Clause No. 6.69.5), the Engineer shall forthwith inform the Contractor thereof, stating in writing the nature of defect or damage.</p> <p>The provision of this clause shall apply to all replacements or renewals carried out by the Contractor to remedy defects and damage as if the said replacements and renewals had been taken over on the date they were completed to the satisfaction of Engineer. After the taking over, if the RMOQ cannot be used (for the purpose for which it is intended), during any period, by the reason of a defect or damage, the Defect Liability Period shall be extended accordingly. If only a portion of the RMOQ is affected, the Defect Liability Period shall be extended [in case the defects is not rectified or defective materials is not replaced within 24 (twenty four) hours of its occurrence] only for that portion, provided the RMOQ remains in operation fulfilling contract conditions. In neither case shall the Defect Liability Period be extended beyond 36 (thirty-six) months [from the date of taking over the RMOQ or from the date of closure of all punch items, as the case may be] for the RMOQ and beyond 72 (seventy-two) months [from the date of taking over the RMOQ or from the date of closure of all punch items, as the case may be] for the Steel structures and painting (including anti-corrosion application, if any).</p> <p>(Page No. 212)</p>	The Contractor shall not exceed a period of nightily-six (96) hours from the time Engineer informs the Contractor of such Defects to make good, unless reasons acceptable to Engineer are given (example: the defect component is not in the spare part stock and need time for supplying)	Tender condition prevails.

Sl. No.	Reference & requirement as per the bidding documents.	Queries/Observations/Suggestions/Requests for clarification	Clarifications/Comments of HDC, KoPT
61.	<p>6.73.3 Letter of Credit will be opened by HDC, KoPT, within 15 (fifteen) days of signing Contract Agreement and submission of Performance Bank Guarantee (and receipt of confirmation thereof) and submission of Integrity Pact by the Contractor, on an Indian Bank having Branch at Contractor's place and payment will be released stage-wise as indicated below:</p> <p>6.73.3.1 Against Price Schedule SI. No. 1:</p> <p>i) Payment for 10% amount will be made, upon submission of Design Appraisal Certificate (as per GCC Clause No. 6.53.6) issued by the Third Party Inspection Agency, along with General Arrangement (GA) Drawing of RMQC duly appraised by the Third Party Inspection Agency.</p> <p>ii) Payment for 60% amount will be made -</p> <p>against receipt of the RMQC, at the designated Berth site, in good condition (duly certified by Marine Insurance Company), verification & certification of the same by the Engineer (supported by Third Party Inspection Certificate) and production of necessary Insurance document(s) by the Contractor [if the RMQC is shipped in assembled condition to HDC, KoPT]</p> <p>Or,</p> <p>against installation/erection of the RMQC at the designated Berth site, verification & certification of the same by the Engineer (supported by Third Party Inspection Certificate) and production of necessary Insurance document(s) by the Contractor [if the RMQC is assembled and erected at HDC's premises].</p>	<p>6.73.3 Irrevocable Letter of Credit at sight will be opened by HDC, KoPT, within 15 (fifteen) days of signing Contract Agreement and</p> <p>submission of Performance Bank Guarantee (and receipt of confirmation thereof) and submission of Integrity Pact by</p> <p>the Contractor, on an Indian Bank having Branch at Contractor's place and payment will be released stage-wise</p> <p>as indicated below:</p> <p>6.73.3.1 Against Price Schedule SI. No. 1:</p> <p>i) Payment for 10% of the Contract Price will be made, upon submission of Advance Bank Guarantee & Performance Bank Guarantee with the same amount.</p> <p>ii) Payment for 10% amount will be made, upon submission of Design Appraisal Certificate (as per GCC Clause No.</p> <p>6.53.6) issued by the Third Party Inspection Agency, along with General Arrangement (GA) Drawing of RMQC duly</p> <p>appraised by the Third Party Inspection Agency.</p> <p>iii) Payment for 20% amount will be made, upon to submit the copy of Purchase Order for Raw material (Steel Plate, Shape Steel) for structural fabrication works.</p> <p>iv) Payment for 30% amount will be made -</p> <p>against receipt of the RMQC, at the designated Berth site, in good condition (duly certified by Marine Insurance Company), verification &</p>	<p>6.73.3.1 Against Price Schedule SI. No. 1:</p> <p>(i) Payment for 10% amount will be made, upon submission of Design Appraisal Certificate (as per GCC Clause No. 6.53.6) issued by the Third Party Inspection Agency, along with General Arrangement (GA) Drawing of RMQC duly appraised by the Third Party Inspection Agency.</p> <p>(ii) Payment for 60% amount will be made -</p> <p>against receipt of the RMQC, at the designated Berth site, in good condition (duly certified by Marine Insurance Company), verification & certification of the same by the Engineer (supported by Third Party Inspection Certificate) and production of necessary Insurance document(s) by the Contractor [if the RMQC is shipped in assembled condition to HDC, KoPT]</p> <p>Or,</p> <p>against installation/ erection of the RMQC at the designated Berth site, verification & certification of the same by the Engineer (supported by Third Party Inspection Certificate) and production of necessary Insurance document(s) by the Contractor [if the RMQC is assembled and erected at HDC's premises], payment for 60% amount will be made as per following :-</p> <p>a) 36% amount against complete supply of primary structures and secondary</p>

Sl. No.	Reference & requirement as per the bidding documents.	Queries/Observations/Suggestions/Requests for clarification	Clarifications/Comments of HDC, KoPT
	<p>iii) Payment for 20% amount will be made, after successful completion of installation, testing & commissioning and taking over (as per GCC Clause No. 6.68) of the RMQC.</p> <p>iv) Payment for 10% amount will be made after completion of all jobs as per contract and on verification of performance of the RMQC, duly certified by the Engineer, in regard to successful loading/unloading of 5,000 TEUs, or after expiry of 3 (three) months from the date of completion of all jobs [as per GCC Clause No. 6.67 (Completion period)], whichever is earlier.</p> <p>(Page No. 215)</p>	<p>certification of the same by the Engineer (supported by Third Party Inspection Certificate) and production of necessary Insurance document(s) by the Contractor [if the RMQC is shipped in assembled condition to HDC, KoPT].</p> <p>v) Payment for 20% amount will be made, after successful completion of installation, testing & commissioning and taking over (as per GCC Clause No. 6.68) of the RMQC.</p> <p>vi) Payment for 10% amount will be made after completion of all jobs as per contract and on verification of performance of the RMQC, duly certified by the Engineer, in regard to successful loading/unloading of 5,000 TEUs, or after expiry of 3 (three) months from the date of completion of all jobs [as per GCC Clause No. 6.67 (Completion period)], whichever is earlier.</p>	<p>structures as per Annexure- 'AA'</p> <p>b) 12% amount against complete supply of major bought out supply items as per Annexure- 'AA' and</p> <p>c) 12% amount against complete supply of electrical items as per Annexure- 'AA'.</p> <p>(iii) Payment for 20% amount will be made, after successful completion of installation, testing & commissioning and taking over (as per GCC Clause No. 6.68) of the RMQC.</p> <p>(iv) Payment for 10% amount will be made after completion of all jobs as per contract and on verification of performance of the RMQC, duly certified by the Engineer, in regard to successful loading/unloading of 5,000 TEUs, or after expiry of 3 (three) months from the date of completion of all jobs [as per GCC Clause No. 6.67 (Completion period)], whichever is earlier.</p>
62.	<p>6.73.9 Income Tax, if any, as per the relevant provision of the Income Tax Act, shall be deducted at source from amount payable to the Contractor.</p> <p>(Page No. 221)</p>	<p>Since we are a professional crane maker while unfamiliar to Indian Tax or charges. Therefore, our price shall be exclusive of all taxes, duties, STAMP DUTY, SERVICE TAX, charges, VAT, CIT, Withholding tax if any, all levies that might be occurred in India. These shall be borne by Employer.</p>	<p>Tender condition prevails.</p>
63.	<p>6.91.1 In this clause "Force Majeure " means an exceptional event or circumstance</p> <p>(v) natural catastrophes such as earthquake, tsunami (caused by earthquake at the ocean bed), fire, floods, hurricane, cyclone, typhoon or</p>	<p>6.91.1 In this clause "Force Majeure" means an exceptional event or circumstance~</p> <p>v) natural catastrophes such as earthquake, tsunami (caused by earthquake at the ocean</p>	<p>Tender condition prevails.</p>

Sl. No.	Reference & requirement as per the bidding documents.	Queries/Observations/Suggestions/Requests for clarification	Clarifications/Comments of HDC, KoPT
	volcanic activity , and (Page No. 232)	bed),fire, floods, hurricane, cyclone, typhoon or volcanic activity, heavy rains any other unusual weather conditions.	
64.	6.98.2 In connection with the instant contract: (a) the place of arbitration shall be Kolkata or Haldia , West Bengal, India, (Page No. 236)	We proposes that the arbitration shall be done in the third country such as Singapore.	Tender condition prevails.
65.	1.2.3 A foreign bidder shall have to obtain a clearance regarding National Defense & Security, from Govt. of India. If this is not applicable for a foreign bidder of a particular country, in terms of any specific exemption granted by Govt. of India in this regard, necessary document(s) [to establish non-applicability] is/are to be submitted [uploaded]. (Page No. 03)	1) Could you please let us know details about the clearance and how to get it ? 2) Shall bidder submit such clearance when bidding ?	Tender condition prevails.
66.		Erection Area : We need 60 x100 m approx. and with stone or gravel prepared surface and give some images, if possible.	Tender condition prevails.
67.		We need support for mobile cranes (Rental companies) and in case of contract also for accommodation for round about 30 workers, our erection team.	Tender condition prevails.
68.	1.2.3 A foreign bidder shall have to obtain a clearance regarding National Defence & Security, from Govt. of India. If this is not applicable for a foreign bidder of a particular country, in terms of any specific exemption granted by Govt. of India in this regard, necessary document(s) [to establish non-	Please guide us for "the clearance" regarding National Defence & Security from Government of India. (Procedure to obtain the same). Is it requiring at the time of submission of tender or on receipt of contract.	Tender condition prevails.

Sl. No.	Reference & requirement as per the bidding documents.	Queries/Observations/Suggestions/Requests for clarification	Clarifications/Comments of HDC, KoPT
	applicability] is/are to be submitted [uploaded]. (Page No. 3)		
69.	<p>3.1.4 Possession of valid Digital Signature Certificate (DSC) [Class III Signing Type] and registration of the intending bidder with MSTC Limited on the e-Procurement/e-Tender Portal of MSTC are pre-requisites for the instant e-Tendering.</p> <p>3.2.1 The process involves vendor's registration with MSTC e-procurement portal, which is free of cost. Only after registration, the vendor(s) can submit his/their bids electronically. Electronic bidding for submission of Techno-Commercial Bid as well as Price Bid will be done over the internet. The vendor should possess Class III Signing Type Digital Certificate. Vendors are to make their own arrangement for bidding from a Personal Computer/Laptop connected with Internet. MSTC is not responsible for making such arrangement (Bids will not be recorded without Digital Signature).</p> <p>Clause No. 3.2.6 (Page no. 16,17,18)</p>	Can authorized representative pay the transaction fee, bid document fee in Indian Rupees and submission of tender on line using authorized representative digital signature. On behalf of foreign bidder?	Tender condition prevails.
70.	6.67 Completion Period (Page no. 209)	We deliver the crane within 12 months to site, but we need additional 3 months for erection and commissioning.	Tender condition prevails.

KOLKATA PORT TRUST
HALDIA DOCK COMPLEX



Tender No. : SDM(P&E) T/14/2018-2019

E-Tender No.: KoPT/Haldia Dock Complex/P&E Div/17/18-19/ET/296

for

Design, manufacture, supply, installation, testing, commissioning & guaranteeing the performance of **1 (one) no. Rail Mounted Quay Crane (RMQC), 40 T lifting capacity under Spreader at 40 m outreach**, at General Cargo Berth, Haldia Dock Complex, Kolkata Port Trust, Dist.: Purba Medinipur, West Bengal, India.

ADDENDUM - II

CORRECTIONS / ADDITIONS / DELETIONS, ETC.

[Total Number of Pages : 4]

NOTE :

1. This “Addendum-II” should be read in conjunction with Bidding Document (including Notice Inviting e-Tender) and “Addendum- I”.
2. Consequential changes, arising out of this Addendum-II, will be deemed to have been effected, even if the same were not incorporated specifically in the Bidding Document.
3. All other terms and conditions of the Bidding Document (including Notice Inviting e-Tender) will remain unchanged.
4. One set of this ‘**Addendum- II**’ along with one set of Tender Document (in full) and “Addendum- I”, should be submitted along with the techno-commercial offer, duly signed and stamped, on each and every page, as token of acceptance.

Addendum -II

Tender No. : SDM(P&E) T/14/2018-2019

E-Tender No.: KoPT/Haldia Dock Complex/P&E Div/17/18-19/ET/296

PART- 1

Sl. No.	Page No.	Clause No.	As specified in the Bidding Document	To be read as / Remarks
1.	3	1.1.3	Satisfactory performance: At least 01 (One) no. Material Handling Equipment (from the above list) shall be successfully working for 2 (Two) Years or more ending on date of submission of Techno-commercial Bids i.e. 20.11.2018.	To Add : Note: The bidder should upload the scanned copies of the satisfactory performance certificates issued by the client.

PART- 2

Sl. No.	Page No.	Clause No.	Line No.	As specified in the Bidding Document	To be read as / Remarks
1.	17	3.2.4	Sl. No. 2	Mr. A. Basu Senior Deputy Manager (P&E) Mobile : +91 - 94340 63718 Landline : +91 - 3224 - 252663 E-mail : abasu.hdc@nic.in	Mr. K. Mukhopadhyay Senior Deputy Manager (P&E) Mobile : +91 - 94340 62312 Landline : +91 - 3224 - 252713 E-mail : koushikm.hdc@nic.in
2.	161	5.10	Sl. No. 3	ALL HYDRAULIC PACKAGE AND EQUIPMENT : PARKER / REXROTH / VICKERS	ALL HYDRAULIC PACKAGE AND EQUIPMENT : PARKER / REXROTH / VICKERS / SIBRE

PART- 4

Sl. No.	Page No.	Clause No.	Line No.	As specified in the Bidding Document	To be read as / Remarks
1.	162	Part- 4 :: Conditions of Contract and Contract Forms		<u>Page no. is to be read as 162 (A)</u>
2.	215	Terms of Payment (6.73.3.1)	---	6.73.3.1 <u>Against Price Schedule Sl. No. 1:</u> i) Payment for 10% amount will be made, upon submission of Design Appraisal Certificate (as per GCC Clause No. 6.53.6) issued by the Third Party Inspection Agency, along with General	6.73.3.1 <u>Against Price Schedule Sl. No. 1:</u> (i) Payment for 10% amount will be made, upon submission of Design Appraisal Certificate (as per GCC Clause No. 6.53.6) issued by the Third Party Inspection Agency, along with General Arrangement (GA)

Sl. No.	Page No.	Clause No.	Line No.	As specified in the Bidding Document	To be read as / Remarks
				<p>Arrangement (GA) Drawing of RMQC duly appraised by the Third Party Inspection Agency.</p> <p>ii) Payment for 60% amount will be made –</p> <p>against receipt of the RMQC, at the designated Berth site, in good condition (duly certified by Marine Insurance Company), verification & certification of the same by the Engineer (supported by Third Party Inspection Certificate) and production of necessary Insurance document(s) by the Contractor [if the RMQC is shipped in assembled condition to HDC, KoPT]</p> <p>Or,</p> <p>against installation/erection of the RMQC at the designated Berth site, verification & certification of the same by the Engineer (supported by Third Party Inspection Certificate) and production of necessary Insurance document(s) by the Contractor [if the RMQC is assembled and erected at HDC's premises].</p> <p>iii) Payment for 20% amount will be made, after successful completion of installation, testing & commissioning and taking over (as per GCC Clause No. 6.68) of the RMQC.</p> <p>iv) Payment for 10% amount will be made after completion of all jobs as per contract and on verification of performance of the RMQC, duly certified by the Engineer, in regard to successful loading/unloading of 5,000 TEUs, or after expiry of 3 (three) months from the date of completion of all jobs [as per GCC Clause No. 6.67]</p>	<p>Drawing of RMQC duly appraised by the Third Party Inspection Agency.</p> <p>(ii) Payment for 60% amount will be made –</p> <p>against receipt of the RMQC, at the designated Berth site, in good condition (duly certified by Marine Insurance Company), verification & certification of the same by the Engineer (supported by Third Party Inspection Certificate) and production of necessary Insurance document(s) by the Contractor [if the RMQC is shipped in assembled condition to HDC, KoPT]</p> <p>Or,</p> <p>against installation/ erection of the RMQC at the designated Berth site, verification & certification of the same by the Engineer (supported by Third Party Inspection Certificate) and production of necessary Insurance document(s) by the Contractor [if the RMQC is assembled and erected at HDC's premises], payment for 60% amount will be made as per following :-</p> <p>a) 36% amount against complete supply of primary structures and secondary structures as per Annexure- 'AA'</p> <p>b) 12% amount against complete supply of major bought out supply items as per Annexure- 'AA' and</p> <p>c) 12% amount against complete supply of electrical items as per Annexure- 'AA'.</p> <p>(iii) Payment for 20% amount will be made, after successful completion of installation, testing & commissioning and taking over (as per GCC Clause No. 6.68) of the RMQC.</p> <p>(iv) Payment for 10% amount will be made after completion of all jobs as per contract and on verification of performance of the RMQC, duly certified</p>

Sl. No.	Page No.	Clause No.	Line No.	As specified in the Bidding Document	To be read as / Remarks
				(Completion period), whichever is earlier.	by the Engineer, in regard to successful loading/unloading of 5,000 TEUs , or after expiry of 3 (three) months from the date of completion of all jobs [as per GCC Clause No. 6.67 (Completion period)], whichever is earlier.

ANNEXURE- 'AA'

Sl. No.	Description
(a)	
	Primary Structures and Secondary Structures
1.0	MECHANICAL
1.1	Bogie Assembly
1.2	Balancing Beam Including Hinges
1.3	Portal Steel Structure
1.4	Upper Part Steel Structure - Main, Boom, Pylon, Stay, Shoulder Beam & Trolley
1.5	Rope Pulleys with Bearings
1.6	Drives
1.6.1	Long Travel
1.6.2	Main Hoist
1.6.3	Boom Hoist
1.6.4	Trolleys Traversing
1.7	Loading Device
1.7.1	Head Block with Cargo beam hook
1.7.2	Spreader
1.8	Secondary Structures
(b)	
1.9	Major Bought Out Supply Items
1.9.1	Hydraulic Buffers
1.9.2	Hydraulic Rail Clamps
1.9.3	Electrical house
1.9.4	Operators cabin
1.9.5	Hoist for E-house
1.9.6	Micro Motion Machinery
1.9.7	Snag Load Device
1.9.8	Wire ropes for MH & BH
1.9.9	Rope Changing Winch
1.9.10	Land Side Sill Beam Counter Weight
1.9.11	Chequers Cabin
1.9.12	Elevator
1.9.13	Rail Clamps
1.9.14	Machinery House with ventilation
1.9.15	Rope Drums with Bearings & Housings
(c)	
2.0	Electrical Items
2.1	HT Transformer, VCB, JB, etc.
2.2	CRD and Cables
2.3	PLC, VVVF Drives, CMS, UPS, RRC, TPS, Anti-Collision Device. Etc.
2.4	LV Panels and DG Sets
2.5	Motors
2.6	Field Devices and Miscellaneous Items