To
M/s……………………………………
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……………………………………
Dear Sir,

“Sealed Quotations are invited in single bid type (Techno-commercial & Price Bid) from the vendors for the job of ‘Servicing / Overhauling (Mechanical & Electrical system) of 01 No. EOT Crane (115T/25T) installed at NTPC, Farakka, Murshidabad, as per tender conditions.

Sealed envelope shall be addressed to Dy. Manager (Purchase), Braithwaite & Co. Limited, 5, Hide Road, Kolkata - 700 043. The sealed offers may be sent through Registered Post / Courier or may be dropped in our Tender Box No. 2 personally within the specified due date. BCL shall not be held responsible for type of postal delay. The offers received through Post / Courier beyond due date shall not be considered.

SPECIAL NOTE: Bidder shall give unconditional acceptance of Scope & all terms and conditions of this tender enquiry, failing which their offer will be treated as techno-commercially non-responsive and their quoted price shall be ignored even if they quote L-1 rate. In such situation, next higher eligible bids shall be considered.

Note: In case of tender opening date falls on Sunday / Holiday, the same will be opened on next working day.

No offer will be considered without submission of EMD along with single bid type offer.

Due Date & Time for submission of offer : 01.12.2019 up to 2.30 PM
Opening of Single Bid type offers on : 01.12.2019 at 3.00 PM

The bidders may depute their authorized representatives to be present at the time of opening of tender as witness. Website bidders should submit the following along with single bid type offer:

a) Executed / Execution of similar type of jobs in reputed organizations for the last 7 years ending 31.10.19 in support of past experience.
b) Copy / copies of Work Order / completion certificates in support of credentials
c) PF, ESI & GST registration

For Braithwaite & Co. Ltd.
Scope of work: The job requires Servicing / Overhauling (Mechanical & Electrical system) & Final Testing / Commissioning of BCL make EOT Crane of 115/25T installed at TG Hall (NTPC, Farakka Super Thermal Power Station).

Item-1: Servicing / Overhauling of Mechanical System of EOT Cranes:

- Tightness & checking of all Nuts and Bolts of CT Tracks
- Checking of tightness of all joints of Girder and End carriage
- All gear boxes are to be checked. If any gear / pinion found damaged, the same are to be replaced. All the oil seals are to be replaced along with damaged bearings.
- Checking of all LT and CT wheels and its related bearings. CT/ LT wheels will have to be replaced for this work.
- Tightness and checking of Axle Box fixing bolts.
- Through the inspection and cleaning of Hoist (MH & AH) ropes, Rope drums (MH & AH), replacement of hoist ropes, if required. Application of Cardium Compound on ropes to be done.
- Checking of complete breaking systems. Replacement of brake shoe liners, rivets and other components.
- Checking of all bearings of lifting hooks and pulleys of MH & AH and replacement of bearings as per requirement.
- DPT & UT of lifting hooks & pulleys (MH & AH) etc.
- Greasing / Lubrication of all points and draining out of used oil of all gearboxes and refilling with fresh oil to be done.

Item-2: Servicing / Overhauling of Electrical System of EOT Cranes:

Main area of work involves complete servicing / overhauling of following equipments:

a) RESISTANCE BOXES
b) CONTROL PANELS for Hoist (MH & AH), CT & LT and Protective Control Panels.
c) MASTER CONTROLLERS
d) INCOMER ISOLATING SWITCHES
e) LIMIT SWITCHES
f) COLLECTOR SHOES

RESISTANCE BOXES- Checking, cleaning, terminal tightness and replacement of any defective parts of the resistance boxes.

CONTROL PANELS-
(i) Through cleaning inside as well as outside with blower, CTO / Petrol etc. Proper alignment of panel door to be done.
(ii) All terminal connections are to be checked for tightness and repair as per requirement.
(iii) Power contractor contacts are to be checked, cleaned and are to be changed, if required.
(iv) Replacement of defective / damaged components of the panels.
(v) Functional and interlock checking of all panel circuits
(vi) Painting of control panels with anti-corrosive paints.
MASTER DRUM CONTROLLERS-

(i) Through cleaning of all contacts, terminal tightness, alignment and adjustment for proper operation in all positions.
(ii) Replacement of any defective components. If parts are not available then entire Master Controllers are to be replaced.

INCOMER ISOLATING SWITCHES-

(i) Check for pitting of contacts, contact pressure.
(ii) Through cleaning of isolator’s contacts and all insulating parts.
(iii) Check for all terminals tightness and cable termination, if required.
(iv) Alignment of switches with door and handle for proper closing of doors.

LIMIT SWITCHES-

(i) Checking and cleaning of contacts
(ii) Check for all terminals tightness and cable termination, if required.
(iii) Checking for smooth operation of limit switches with interlocks
(iv) Replacement of limit switches if required and adjustment of Rotary Limit Switch.

BRAKES-

(i) Cleaning of armature of coil terminals tightness and its proper functioning. Measurements of winding resistance and insulating resistance of coil in case of electromagnetic brakes.
(ii) Adjustment of brakes for proper working. Checking of gap between shoe linings and drum. Replacement of shoe linings.
(iii) Checking for any oil leakage in case of thrusters and leakage rectification, topping up of oil.
(iv) Dismantling and overhauling of thruster motors.
(v) Assembly of thruster motors, alignment, fixing and functional checks.
(vi) Thruster motors’ cable tightness, cable termination, if required.

COLLECTOR SHOE-

(i) Cleaning of collector pads, checks for any pitting at contact surfaces, replacement as per requirements.
(ii) Alignment and contact with bus of the collector pad and proper fixing of mounting bracket.
(iii) Tightness or connecting jumpers, replacement
(iv) Checking of collector arm assembly insulators for any damage, replacement, if required.

MISC. WIRING WORKS-

(i) Misc. wiring / dressing work wherever required, is to be done/
(ii) Necessary cables / wires etc. will be provided by BCL.

Scope of BCL: BCL will provide all spares required for the job. The list of which given below:
<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Name of the Spares</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A)</td>
<td><strong>MECHANICAL SPARES:</strong></td>
<td></td>
</tr>
<tr>
<td>01</td>
<td>Rubberised Coupling Bolts for different assemblies</td>
<td>80 Nos.</td>
</tr>
<tr>
<td>02</td>
<td>Fit Bolts for MH.AH.CT &amp; LT</td>
<td>105 Nos.</td>
</tr>
<tr>
<td>03</td>
<td>Oil Seals, Grease Pack</td>
<td>01 Set</td>
</tr>
<tr>
<td>04</td>
<td>Lubricating Oil</td>
<td>600 Liters</td>
</tr>
<tr>
<td>05</td>
<td>Gantry Rail fixing items (Angle Cleat, Support Plate)</td>
<td>380 Nos.</td>
</tr>
<tr>
<td>06</td>
<td>Input Shaft assembly with bearings. Couplings for LT Gear Box</td>
<td>02 Nos.</td>
</tr>
<tr>
<td>07</td>
<td>Input Shaft assembly with bearings. Couplings for CT Gear Box</td>
<td>01 No.</td>
</tr>
<tr>
<td>08</td>
<td>Bearings (SKF Make for MH Hook Block)</td>
<td>08 Nos.</td>
</tr>
<tr>
<td>B)</td>
<td><strong>ELECTRICAL SPARES:</strong></td>
<td></td>
</tr>
<tr>
<td>01</td>
<td>Aux. contactors</td>
<td>03 Nos.</td>
</tr>
<tr>
<td>02</td>
<td>Stator contactor</td>
<td>01 Set</td>
</tr>
<tr>
<td>03</td>
<td>Rotor contactor</td>
<td>02 Nos.</td>
</tr>
<tr>
<td>04</td>
<td>Timer</td>
<td>02 Nos.</td>
</tr>
<tr>
<td>05</td>
<td>Master Controller</td>
<td>01 No.</td>
</tr>
<tr>
<td>06</td>
<td>Overload Relay</td>
<td>01 Set</td>
</tr>
<tr>
<td>07</td>
<td>Lug / Terminal / Ferrule</td>
<td>01 Set</td>
</tr>
<tr>
<td>08</td>
<td>Stator contactor</td>
<td>01 Set</td>
</tr>
<tr>
<td>09</td>
<td>Rotor contactor</td>
<td>02 Nos.</td>
</tr>
<tr>
<td>10</td>
<td>Timer</td>
<td>02 Nos.</td>
</tr>
<tr>
<td>11</td>
<td>Master Controller</td>
<td>01 No.</td>
</tr>
<tr>
<td>12</td>
<td>Overload Relay</td>
<td>01 Set</td>
</tr>
<tr>
<td>13</td>
<td>Rotor resistance (MH)</td>
<td>01 Set</td>
</tr>
<tr>
<td>14</td>
<td>Lug / Terminal / Ferrule</td>
<td>01 Set</td>
</tr>
<tr>
<td>15</td>
<td>Stator contactor</td>
<td>01 Set</td>
</tr>
<tr>
<td>16</td>
<td>Rotor contactor</td>
<td>02 Nos.</td>
</tr>
<tr>
<td>17</td>
<td>Timer</td>
<td>02 Nos.</td>
</tr>
<tr>
<td>18</td>
<td>Master Controller</td>
<td>01 No.</td>
</tr>
<tr>
<td>19</td>
<td>Overload relay</td>
<td>01 Set</td>
</tr>
<tr>
<td>20</td>
<td>Rotor resistance (MH)</td>
<td>01 Set</td>
</tr>
<tr>
<td>21</td>
<td>Lug / Terminal / Ferrule</td>
<td>01 Set</td>
</tr>
<tr>
<td>22</td>
<td>Stator contactor</td>
<td>01 Set</td>
</tr>
<tr>
<td>23</td>
<td>Rotor contactor</td>
<td>04 Nos.</td>
</tr>
<tr>
<td>24</td>
<td>Timer</td>
<td>02 Nos.</td>
</tr>
<tr>
<td>25</td>
<td>Aux. controller</td>
<td>01 No.</td>
</tr>
<tr>
<td>26</td>
<td>Master Controller</td>
<td>01 No.</td>
</tr>
<tr>
<td>27</td>
<td>Overload relay</td>
<td>01 Set</td>
</tr>
<tr>
<td>28</td>
<td>Rotor resistance (MH)</td>
<td>01 Set</td>
</tr>
<tr>
<td>29</td>
<td>Lug / Terminal / Ferrule</td>
<td>01 Set</td>
</tr>
<tr>
<td>30</td>
<td>Brake lining</td>
<td>01 Set</td>
</tr>
<tr>
<td>31</td>
<td>DSL Insulators</td>
<td>200 Nos.</td>
</tr>
<tr>
<td>32</td>
<td>RRC with interface panel</td>
<td>01 No.</td>
</tr>
</tbody>
</table>

Scope of Contractor:
- All tools & tackles to be arranged by the contractor.
- Deployment of labour for mechanical job of crane - The party has to provide 16 man shifts (out of which 8 heads shall be high-skilled).
Deployment of labour for electrical job of crane- 4 man shifts per day i.e. 2 High Skilled electricians having valid electrical license and 2 Helpers of Semi-skilled category.

Execution Period- 45 days from the date of handing over of Crane at site by M/s. NTPC Ltd.

Others: All the statutory formalities of working at height and other associated risks may be covered for the working team by the contractor. PF, ESI for workers shall also be applicable.

Safety of the workforce shall be under scope of contractor

Other arrangements in Contractor's scope:

a) Contractor shall make their own arrangement of the residential accommodation and transportation of their work force.

b) The contractor shall observe all labour and other statutory rules and regulation of State/Central Govt. in force including the Safety and Environmental rules & regulations.

c) Contractor shall employ trained and skilled manpower in fit condition.

Contractor shall adhere to all safety procedures & regulations of BCL’s customer as applicable from time to time.

a. The Contractor must provide PPE services to their workmen.

b. The Contractor is to abide by the provisions of Payment of Wages act & Minimum Wages act as per rule.

The contractor should also comply with the rules & regulations of `Shramik Kalyan’ Portal. Contractor shall register his firm / Company etc and upload requisite details of labour and their payment in this portal. These details shall be available in public domain. The Registration / updation of Portal shall be done as under:

(a) Contractor shall apply for online registration of his company / firm etc in the Shramik Kalyan portal with requisite details subsequent to issue of Letter of Acceptance. Engineer shall approve the Contractor’s registration on the portal within 7 days of receipt of such request.

(b) Contractor once approved by any Engineer, can create password with login ID (PAN No) for subsequent use of Portal for all LoAs issued in his favour.

(c) The Contractor once registered on the portal, shall provide details of his Letter of Acceptance (LoA) / Contract Agreements on shramik 5alian portal within 15 days of issue of any LoA for approval of concerned Engineer. Engineer shall update (if required) and approve the details of LoA filled by contractor within 7 days of receipt of such request.

(c. While processing payment of any “On Account Bill” or “Final Bill” or release of “Advances” or “Performance Guarantee / Security Deposit”, contractor shall submit a certificate to the Engineer or Engineer’s representatives that “I have uploaded the correct details of contract labours engaged in connection with this contract and payments made to them during the wage period in Railway’s Shramik Kalyan portal at www.shramikkalyan.indianrailways.gov.in.
General Terms & Conditions:

1. **Earnest Money Deposit- Rs. 5,000/- (Rupees five thousand only)**. The tenderer should deposit Earnest Money in the form of Demand Draft / Pay Order drawn in favour of ‘Braithwaite & Co. Ltd.,’ or Bank Guarantee as per format provided by Braithwaite & Co. Ltd., with offers.

The units registered with DGS&D, SSI units registered with NSIC, MSME units and PSU Units / RDSO approved vendors are exempted for the tendered items from submission of EMD. The Earnest Money is liable to be forfeited, if the tender withdraws or amends or derogates from the tender in any respect within the period of validity of this tender.

Earnest Money lodged by unsuccessful tenderer shall be refunded to them immediately after finalization of a tender. In case of the successful tenderer, the same shall be retained by the Company till submission of Security Deposit or if so decided by the tenderer adjusted against Security Deposit for the said or any other tender as the case may be.

2. **Security Deposit**: @ 5% of the order value only in the form of DD/ pay order/ Bank Guarantee from Indian Nationalized Bank to be submitted by the successful bidder within 15 days from the date of receipt of Purchase order. However, exempted for NSIC, MSME & DGS&D registered vendors & PSU bidders However SD can be submitted 50% by the bidder & balance 50% can be adjusted against their R/A Bills. Security Deposit will be discharged and returned to the supplier only after successful completion of supplier’s obligation under the contract.

As and when an amendment is issued to the contract, the supplier / contractor shall within 15 days of the receipt of such an amendment furnish to the purchaser an amendment to the security deposit and / or Bank Guarantee rendering the same valid for the contract as amended.

Security deposit will be discharged and returned to the supplier / contractor on completion of supplier’s / contractor’s obligations under the contract including any warranty obligation as specified in the contract.

3) **Performance Bank Guarantee**: You shall submit a Performance Guarantee @ 5% of contract value in the form of Bank Guarantee obtained from a Nationalized / Scheduled Bank in a prescribed format of BCL before the receipt of first payment. The PBG shall remain valid up to Guaranty / Warranty period. The Security Deposit, if submitted may be converted to Performance Bank Guarantee and no separate PBG is required to be submitted. PBG shall be refunded / returned only after successful completion of obligations under the contract.

**NOTE:**

(i) In case, Security Deposit / Performance Guarantee is not submitted in time, a penalty of 1.5% of value of SD / PBG per month or per thereof, will be applicable for the delay period which will be deducted from party’s bill.

(ii) MSE vendors may opt for submission of S.D. or PBG as per their choice.

4. **Payment**: 100% Payment will be made after successful completion of revamping job duly accepted by NTPC, after 30 days of submission of bill with supporting documents duly certified by In-charge Maintenance (AW) or his authorized representative. All the payments shall be released after receipt of corresponding payments from BCL’s customer, NTPC.
5. **Validity:** Offer should remain valid for a period of 90 days from the date of opening of techno-commercial bid.

6. **Defect Liability Period:** Defect liability period shall be 06 (six) months from the date of load test after commissioning of the crane.

7. Quoted/order rates should remain firm till completion of the supply and price variation shall not be entertained during the currency of the contract.

8. All corrections (if any) must be signed at the appropriate place by the signatory of the bidder; otherwise, tender will be considered as invalid.

9. **Liquidated Damages:** In the event of failure to complete the job within the stipulated date, BWT reserve the right to recover a sum of 0.5% for every week or part thereof by way of LD subject to maximum limit of 10% of the ordered value.

10. **Risk Purchase:** In the event of your failure to complete the job, BWT reserve the right to procure the items mentioned in our Purchase order from alternative source on Risk Purchase Basis and recover the extra thereof, if incurred, from you.

11. **Arbitration:** All question, disputes or difference whatsoever shall arise between the Purchaser and the supplier upon or in relation to or in connection with the contract either the party may forthwith give to the other notice in writing of the existence of such question dispute or difference and the same shall be referred to the adjudication of sole Arbitration who shall be the Chairman shall have the right and authority to appoint any officer of the Company as Arbitrator not below the rank of General Manager who is not directly connected with the Purchaser. Such a reference submitted to the Arbitrator shall be deemed to be the submission to the Arbitrator within the meaning of the Arbitration and Conciliation Act, 1996 statutory modification thereof. The processing’s of the Arbitration shall be held in Kolkata.

12. An Unconditional acceptance of all notes, terms & conditions of the tender must be given along with the Part - I offer.

**Price Submission**

1. The rates should be quoted both in figures and words. In case of difference, rate quoted in Words will be considered.

2. Over writing in price figure of the quotation will be rejected.

3. Lowest bid will be evaluated against lowest total value received from the bidders (all inclusive) as per Price Submission format.

**PRICE SUBMISSION FORMAT**

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Description of Spares</th>
<th>Unit Qty</th>
<th>Lump sum Amount (Rs.)</th>
<th>GST Amount</th>
<th>Total Value (all inclusive)</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Servicing / Overhauling (Mechanical &amp; Electrical System) &amp; final testing / commissioning of EOT Crane (115/25 T) at NTPC-FSTPP site</td>
<td>Nos. 01</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For Braithwaite & Co. Limited