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Organization

## BHARAT HEAVY ELECTRICALS LIMITED

High Pressure Boiler Plant, Tiruchirappalli- 620014

Maintenance & Services Dept. (FB)

☎: (0431) 257-5010 Fax: (0431) 257-6805

e-mail: [umadsankar@bhel.in](mailto:umadsankar@bhel.in)

Enq. No: 9242000020

12.09.2020

### NOTICE INVITING TENDER

Dear Sir/ Madam,

Subject: Two Part Tender Inviting Techno-commercial and Price Bids for **Furnace AMC contract for Bldg.-1, DSPS and Bldg 50 furnaces.** Please submit your competitive offer for the above subject work as per the conditions given in the WORK/ RATE SCHEDULE and tender conditions enclosed along with the tender.

|     |                                 |                                                              |
|-----|---------------------------------|--------------------------------------------------------------|
| 01. | Name of work                    | Furnace AMC contract for Bldg.-1, DSPS and Bldg 50 furnaces. |
| 02. | Earnest Money Deposit (EMD)     | ₹ 8,847.00/-                                                 |
| 03. | Duration of the contract        | One Year (From the date of commencement of the work)         |
| 04. | Enquiry No. & Date              | 9242000020; dt. 12/09/2020                                   |
| 05. | Last Date for Receipt of Tender | 14.00 Hrs. on 05/10/2020                                     |
| 06. | Date of Technical Bid Opening   | 14.30 Hrs. on 05/10/2020                                     |
| 07. | Date of Price Bid Opening       | Will be intimated to those who are Qualified separately.     |
| 08. | Guarantee Period                | Not applicable                                               |

- The Tender documents can be downloaded from BHEL website ([http://www.bhel.com/tender/tender\\_home.php](http://www.bhel.com/tender/tender_home.php)) free of cost.
- Tender document contains **16 Pages** (Technical & Commercial Bid – 14 pages, Schedule for Price Bid – 01 page, Sample format for CA certificate – 01 page).
- The duly filled Tender should be addressed to:

**THE ENGINEER,  
MAINTENANCE & SERVICES / CONTRACTS,  
2&4 BUILDING, BHARAT HEAVY ELECTRICALS LIMITED,  
HIGH PRESSURE BOILER PLANT,  
TIRUCHIRAPPALLI, TAMILNADU - 620014.**

### Special Instructions:

Tender of the following work should be submitted in a sealed cover super- scribing the NAME OF WORK, ENQUIRY NUMBER, etc., consisting of **three inner sealed covers** super-scribed such as **1) EMD cover, 2) Technical bid cover & 3) Price bid cover.**

- EMD cover shall contain EMD of ₹ 8,847.00/- Mode of Payment of EMD: (a) e-Collect mode (as directed in Commercial T & C) or (b) Banker's cheque/ Pay Order/ DD in favour of BHEL or (c) Fixed Deposit Receipt (FDR) issued by Scheduled Banks/ Public Financial Institutions as defined in the Companies act (FDR should be in the name of the Contractor, a/c BHEL). EMD shall not carry any interest.
- Bidders registered as **MSE (UAM/UDYAM) / NSIC / SSI** are exempted from paying EMD subject to submission of valid Registration document along with Tender. These bidders can avail EMD Waiver benefits only if they submit in EMD cover along with the offer, attested copies of either valid **EM-II** Certificate (five years from the date of issue of acknowledgement in EM-II or else, with attested copy of a CA Certificate in Enclosed Format) or **MSE (UAN- along with CA certificate** in attached format)/ valid **NSIC / SSI** certificate.



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**3) Tenders without EMD/ MSE/ NSIC/ SSI/ EM-II proof as above will be summarily rejected and the Technical bid & Price bid shall not be considered for further evaluation.**

- 4) Technical bid cover shall contain duly filled in Technical bid document signed by the tenderer in all the pages with documentary evidences for **Pre-Qualification Criteria (PQC)**. Any bid without proper documentary evidence for PQC shall not be considered for further evaluation.
- 5) One set of unpriced bid of Contract Work Schedule **duly filled & signed** by the tenderer for accepting the work content (Bill of Quantity- BoQ), should be submitted along with the Technical bid for technical evaluation. All the corrections / cancellations / insertions, if any, shall be duly attested by the Bidders concerned.
- 6) Should a tenderer find discrepancies or omissions in the tender documents, or should there be any doubt as to their meaning, he should at once address the authority inviting the tender, for clarification well before the due date, so as to submit his tender in time. No extension of time shall be given for submission of the tender on any account.
- 7) All entries in the tender documents should be in one ink. Erasures, and overwriting are not permitted. All cancellations, and insertions should be duly attested by the tenderers concerned.
- 8) Offer should be **valid** for a period of **120 (One Hundred & Twenty) days** from Techno-commercial bid opening date.
- 9) The Bidder shall sign each and every page of tender documents, and affix seal for having accepted the conditions.
- 10) Tender can be cancelled at any stage due to unavoidable circumstances.
- 11) **Forfeiture of EMD:** EMD paid by the Tenderer will be forfeited as per Tender Documents if:
  - I. After opening the tender and within the offer validity period, the tenderer revokes his tender or makes any modification in his tender which is not acceptable to BHEL.
  - II. The Contractor fails to deposit the required Security deposit or commence the work within 15 days of LOI/ WO/ Contract.
- 12) I. EMD given by all unsuccessful tenderers shall be refunded after of award of work/ after offer validity period.  
II. EMD shall not carry any interest.  
III. EMD of successful tenderer will be retained as part of Security Deposit.
- 13) The price bid cover shall contain price bid document in prescribed format **duly filled & signed by the tenderer** in all the pages. Care should be taken to fill the price bid without any overwriting & correction. Correction, if any, shall be duly attested by the Bidders concerned.
- 14) Clarification if any can be obtained from the Engineer / Contracts/ M&S, BHEL, Trichy.
- 15) The complete Technical bid and price bid along with requisite **EMD of ₹ 8,847.00/-** shall reach the office of the undersigned on or before **05/10/2020** at 14.00 Hrs.
- 16) The Technical bid will be opened on the same day at 14.30 hrs. In case of opening day falls on holiday or happened to be declared as a holiday the due date of receipt of offers and opening of the tender shall automatically fall on the same timing of the next working day unless intimated otherwise. Date and time of opening of the Price Bid shall be intimated only to the bidders those who have qualified after evaluation of the Technical bid. You / Your authorized representative may participate in the tender opening.

Encl:

- 1) NIT – Notice Inviting tender (Consists of Preamble, Technical Bid & Price bid Schedule)
- 2) CA certificate – Sample Format



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### **PQC & TECHNICAL BID**

NAME OF WORK: **Furnace AMC contract for Bldg.-1, DSPS and Bldg 50 furnaces.**

Ref: Enquiry no: 9242000020; dt. 12/09/2020; Due dt. 05/10/2020, 14.00 Hrs.

### **PRE-QUALIFICATION CRITERIA**

The following eligibility criteria shall be complied to fulfill the Technical bid:

| Sl. No | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Vendor to confirm |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| 1      | Only those BIDDER/SERVICE PROVIDER, who have minimum One-year experience in executing Maintenance Contract/ Fabrication/ Maintenance of Machine/Furnace/ Facilities in any engineering industry in the last five years (from the date of opening of tender) are eligible to participate in the tender. Bidder to confirm.                                                                                                                                                                                                                                                                       |                   |
| 2      | Previous Work order copy of the above said work to be submitted along with offer for verification. Experience proof from other than BHEL-Trichy shall contain work order copy along with Form 26AS / TDS certificate / bank statement for payment from the organisation. Otherwise the offer shall be rejected.                                                                                                                                                                                                                                                                                 |                   |
| 3      | Name and contact details like E-mail, Phone number, Fax no, etc. of the customer/ company where the maintenance contract is executed. Bidder to give details.                                                                                                                                                                                                                                                                                                                                                                                                                                   |                   |
| 4      | (i) BHEL Vendor code (if applicable) -<br>(ii) PAN Number (Copy to be Enclosed) –<br>(iii) GST registration Number (Copy to be Enclosed) –<br>(iv) Mobile number (Which is linked to GST registration Number) –<br>(v) Email id (Which is linked to GST registration Number) –<br>(vi) HSN/SAC Code -<br>Offer will be entertained only if the bidder submit the details as above & has a valid GST registration no. If any specific exemption is available, a declaration with due supporting documents need to be furnished for considering the offer. Otherwise the offer shall be rejected. |                   |
| 5      | Acceptance for Scope of Work as per the Enquiry.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |
| 6      | Acceptance for All Terms & Conditions as per the Enquiry; viz. Safety, LD/Penalty, Risk Purchase, Suspension of Contract, Indemnity, BHEL Fraud Prevention Policy, etc. as given in “General Terms & Conditions”.                                                                                                                                                                                                                                                                                                                                                                               |                   |
| 7      | BHEL may verify the information provided by vendor. In case the information provided by vendor is found to be false / incorrect, the offer shall be rejected. Bidder to confirm.                                                                                                                                                                                                                                                                                                                                                                                                                |                   |



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### SCOPE OF WORK

NAME OF WORK: **Furnace AMC contract for Bldg.-1, DSPS and Bldg 50 furnaces.**

Ref: Enquiry no: 9242000020; dt. 12/09/2020; Due dt. 05/10/2020, 14.00 Hrs.

| Sl. No | SCOPE OF WORK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Qty          |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 10/10  | <b>Removal and re-assembly of Furnace Door:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>14 NO</b> |
|        | <b>Work content:</b> <ol style="list-style-type: none"> <li>1. Locking the counter weight at the required position (Either with wire rope or support at the bottom).</li> <li>2. Disconnect the connecting hook in the door by removing the pin between the door and the chain after holding the door with crane or Forklift.</li> <li>3. Remove the door using crane or fork lift and place it at convenient place as per the instruction of MMO supervisor.</li> <li>4. Re-assemble the door back in the furnace (following the reverse procedure of removal of door) after repair of front wall / side wall / door casting or door sand sealing arrangements as stated in scope 30 to 50.</li> </ol> <b>Note:</b> <ol style="list-style-type: none"> <li>1) The crane/forklift for holding, removing and lifting the door will be provided by BHEL free of cost.</li> <li>2) The repair work does not form part of this scope.</li> </ol> |              |
| 10/20  | <b>Castings Replacement in furnace walls</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>65 M</b>  |
|        | <b>Work content:</b> <ol style="list-style-type: none"> <li>1. Removal of damaged castings/SS plate in Front wall / side wall / door of the furnace by gas cutting the fasteners.</li> <li>2. Correcting the corresponding base plates / fixing channel by heating and welding or patch up with new plate / channel.</li> <li>3. Fixing the new castings / SS plate with suitable fasteners after drilling/gouging.</li> <li>4. Painting with one coat of red-oxide and two coats of aluminium paint on the replaced area.</li> </ol> <b>Note:</b> <ol style="list-style-type: none"> <li>1) To Quote for 1 meter length of replacement, irrespective of size of castings.</li> <li>2) The new castings / SS plates without fixing holes will be provided by BHEL free of cost. (In case of SS plate contractor should mark &amp; move for cutting to MP and to be moved back).</li> </ol>                                                   |              |
| 10/30  | <b>Sand Sealing Repair in Lintel / Door</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>17 M</b>  |
|        | Sealing Repair in Lintel / Door top of furnace: (for 100T, 50T and 300T Furnace) <b>Work content:</b> <ol style="list-style-type: none"> <li>1. The damaged portion of the sand sealing in Lintel / Door top are to be removed by gas cutting.</li> <li>2. The new channel / I - beam/ plate to be welded with proper support from the base plate of shell / door to match with each other.</li> <li>3. Proper stiffener to be provided wherever required as per instruction of MMO Supervisor.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                   |              |

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|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
|              | <p>4.Painting with one coat of red-oxide paint and two coats of aluminium paint on the replaced area.</p> <p>5.Sand to be filled in the sealing area.</p> <p><b>Note:</b></p> <p>1)To Quote for 1 metre length of replacement.</p> <p>2)The removal of refractory materials in the furnace chamber or door for replacing lintel structure is not in the scope of this contract.</p> <p>3)This is applicable for 100T, 50T and 300T and similar furnaces.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |
| <b>10/40</b> | <b>Repair in Lintel Sand Sealing</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>20 M</b> |
|              | <p>Lintel sand sealing Repair work: (150T Furnace and furnaces having similar arrangements)</p> <p><b>Work content:</b></p> <p>1.The damaged portion of the sand sealing channel in Lintel are to be removed by gas cutting.</p> <p>2.Removal of M casting below sand sealing.</p> <p>3.The new channel / I - beam/ plate to be welded with proper support from the base plate of shell / door to match with each other.</p> <p>4.Proper stiffener to be provided wherever required as per instruction of MMO Supervisor.</p> <p>5.Painting with one coat of red-oxide paint and two coats of aluminum paint on the replaced area.</p> <p>6.Assemble the M castings and sand sealing channel.</p> <p>7.Sand to be filled in the sealing area.</p> <p><b>Note:</b></p> <p>1)To Quote for 1 metre length of replacement.</p> <p>2)The removal of refractory materials in the furnace chamber or door for replacing the castings is not in the scope of this contract.</p> <p><b>3)Work Sl. No. 20, 30, 40 and 50 will be awarded to single contractor as they are inter-linked.</b></p> |             |
| <b>10/50</b> | <b>Repair of Damaged Air Duct upto 250mm</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>30 M</b> |
|              | <p><b>Work content:</b></p> <p>1.Damaged portion of Air duct (dia. upto 250mm) to be removed by gas cutting.</p> <p>2.A patch plate to be welded on the duct or a portion of duct to be fabricated and replaced.</p> <p>3.Duct to be replaced along with suitable flanges and gaskets free of air leakage.</p> <p>4.Painting with one coat of red-oxide and two coats of white paint for the replaced area.</p> <p>5.For removing &amp; re-fixing of air duct, wherever overhead crane facility is available, the same if required will be provided by BHEL free of cost.</p> <p><b>Note:</b></p> <p>To Quote for 1 m length of duct repaired /replaced up to 250mm. diameter.</p>                                                                                                                                                                                                                                                                                                                                                                                                    |             |

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|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| <b>10/60</b> | <b>Repair of Damaged Air Duct above 251mm</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>25 M</b>  |
|              | <p><b>Work content:</b></p> <ol style="list-style-type: none"> <li>1.Damaged portion of Air duct (above 251mm) to be removed by gas cutting.</li> <li>2.A patch plate to be welded on the duct or a portion of duct to be fabricated and replaced.</li> <li>3.Duct to be replaced along with suitable flanges and gaskets free of air leakage.</li> <li>4.Painting with one coat of red-oxide and two coats of white paint for the replaced area.</li> <li>5.For removing &amp; re-fixing of air duct, wherever overhead crane facility is available, the same if required will be provided by BHEL free of cost.</li> </ol> <p><b>Note:</b><br/>To Quote for 1 m length of duct repaired /replaced above 251mm. diameter.</p>                             |              |
| <b>10/70</b> | <b>Repair of Damaged burner Air bend pipe</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>35 M</b>  |
|              | <p><b>Work content:</b></p> <ol style="list-style-type: none"> <li>1.Damaged bend pipe connecting the burner and air header to be removed.</li> <li>2.New bend pipe to be fabricated and to be replaced in place of damaged one.</li> <li>3.Wherever it is possible, patch work shall be done as per the instruction of MMO supervisor.</li> <li>4.Bend pipes to be replaced along with suitable flanges and gaskets to avoid air / flame leakage.</li> <li>5.Painting with one coat of red-oxide and two coats of white paint for the replaced bends.</li> <li>6. In case of bend pipe welded with burner, the same to be welded back with newly fabricated pipe.</li> </ol> <p><b>Note:</b><br/>To Quote for repairing / replacement of 1 bend pipe.</p> |              |
| <b>10/80</b> | <b>Servicing of Wheel type Air Valves</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>60 NO</b> |
|              | <p><b>Work content:</b></p> <ol style="list-style-type: none"> <li>1.Removal of the damaged Air valves from the pipe lines in the furnace.</li> <li>2.Dismantling of valve completely.</li> <li>3.Removing the rust &amp; burrs in the body and seat using kerosene, emery, wire brush or grinding.</li> <li>4.Cleaning and de-burring the threaded stem and mating nut of the valve.</li> <li>5.Assembling of valve with proper grease packing and ensuring smooth sliding of valve seat.</li> <li>6.Mounting the serviced valve in its original position with proper gasket free of air leakage at the joints.</li> <li>7.Painting with one coat of Black paint.</li> </ol> <p><b>Note:</b></p>                                                          |              |

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|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
|               | To Quote for servicing & mounting of 1 valve.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |
| <b>10/90</b>  | <b>Servicing of Butterfly Air Valves</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>35 NO</b>  |
|               | <p><b>Work content:</b></p> <ol style="list-style-type: none"> <li>1. Removal of the damaged butterfly type Air valves in the furnace and connected operating links.</li> <li>2. Dismantling of valve completely.</li> <li>3. Removing the rust &amp; burrs in the links, body and flapper using kerosene, emery, wire brush or grinding.</li> <li>4. Cleaning the valve stem and mating bush of the valve.</li> <li>5. Assembling of valve with proper greasing and ensuring smooth operation of the flapper &amp; handle. Also ensure holding of handle at any intermediate position.</li> <li>6. Mounting the serviced valve in its original position with proper gasket, free of air leakage and ensuring free movement of links.</li> <li>7. Painting with one coat of Black paint.</li> </ol> <p><b>Note:</b><br/>To Quote for servicing &amp; mounting of 1 valve.</p>                                                                                                                                                                     |               |
| <b>10/100</b> | <b>Fabrication of structure as per drawing</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>15 MT</b>  |
|               | <p><b>Work content:</b></p> <ol style="list-style-type: none"> <li>1. Collection of raw materials from MMO stores and movement to the site identified by BHEL.</li> <li>2. Fabrication of structure as per the drawing/ as per the measurement of existing structure.</li> <li>3. Painting with one coat of red oxide and two coats of heat resistant aluminium paint.</li> </ol> <p><b>Note:</b> To Quote for fabrication rate per ton.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |               |
| <b>10/110</b> | <b>Other miscellaneous works in furnaces</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>400 NO</b> |
|               | <p><b>Miscellaneous works are as follows.</b></p> <ol style="list-style-type: none"> <li>1. Bogie drive chain link checking replacing the pin in 100T, 50T and similar furnaces.</li> <li>2. Servicing of bogie wheels from the pit available in 300T, 10T 150T and similar furnaces.</li> <li>3. Bogie drive yoke maintenance work in 150T, 300T, 10T and similar furnaces.</li> <li>4. Greasing and checking of bogie wheels in 300T, 150T and similar furnaces.</li> <li>5. FD blower and ID blower related maintenance works like bearing change, belt cut, Plummer block Bearing greasing, etc in all furnaces.</li> <li>6. Furnace door rope and chain mechanism maintenance works.</li> <li>7. Damper struck-up maintenance work.</li> </ol> <p>The above miscellaneous works shall be attended by the contractor whenever needed. Since the above works could not be quantified, the contractor will be paid based on manpower supply for a particular work.</p> <p><b>The contractor should quote the rate per Skilled manpower.</b></p> |               |

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| 10/120 | Replacement & repair of Shell Plate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 70 M2           |                     |                 |   |                              |           |   |                             |           |   |                             |           |   |                               |           |   |                          |           |   |                         |           |   |                           |           |   |                           |           |   |                            |           |    |                                 |           |    |                             |           |    |                            |           |  |                 |                 |   |                                                |           |   |                                            |           |   |                                    |           |   |                                    |           |   |                                       |           |   |                                                |           |   |                                  |           |  |
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|        | <p><b>Replacement of Furnace Shell Plate:</b><br/>Damaged portion of shell plates are to be removed and new plates to be welded. The plate material is MS and thickness range between 6 to 10 mm.</p> <p><b>Work content:</b><br/>1.Remove the damaged area by Gas cutting,<br/>2.Preparation of new patch plate suitable to the damaged area,<br/>3.Welding the new plate with suitable reinforcements /supports.<br/>4.Cleaning and smoothening the weldments by grinding the weld beads.<br/>5. Painting with one coat of red-oxide and two coats of aluminium paint on the newly replaced area.</p> <p><b>Note:</b><br/>1. To Quote for replacing, 1 Sq. mtr. of furnace shell plate.<br/>2. The removal of refractory materials in the furnace chamber or door for replacing the shell plate are not in the scope of this contract.</p> <p><b>General Conditions for all items:</b><br/><b>List of Furnaces that are covered in this AMC:</b></p> <table> <thead> <tr> <th>Sl.no</th><th>Bldg 1 DSPS Furnace</th><th>Location number</th></tr> </thead> <tbody> <tr><td>1</td><td>100T Furnace/ Bay 1D/ Bldg 1</td><td>1524-0207</td></tr> <tr><td>2</td><td>50T Furnace/ Bay 1D/ Bldg 1</td><td>1523-0206</td></tr> <tr><td>3</td><td>10T Furnace/ Bay 1E/ Bldg 1</td><td>1522-0205</td></tr> <tr><td>4</td><td>300T Furnace/ Bay 197/ Bldg 1</td><td>1593-2238</td></tr> <tr><td>5</td><td>150T Furnace/ Press Shop</td><td>1592-2237</td></tr> <tr><td>6</td><td>46T Furnace/ Press Shop</td><td>1591-1302</td></tr> <tr><td>7</td><td>40T Furnace/ TPCS/ Bldg 1</td><td>1764-4200</td></tr> <tr><td>8</td><td>10T Furnace/ TPCS/ Bldg 1</td><td>1723-2761</td></tr> <tr><td>9</td><td>0.5T Furnace/ TPCS/ Bldg 1</td><td>1561-1492</td></tr> <tr><td>10</td><td>Therelek Furnace II/ Press Shop</td><td>1516-2847</td></tr> <tr><td>11</td><td>50T Furnace/ Bay 1A/ Bldg 1</td><td>1764-4166</td></tr> <tr><td>12</td><td>30T Furnace/ Bay 1/ Bldg 1</td><td>1561-1511</td></tr> </tbody> </table><br><table> <thead> <tr> <th></th><th>Bldg 50 Furnace</th><th>Location number</th></tr> </thead> <tbody> <tr><td>1</td><td>Continuous Discharge Furnace / Bay-2 / Bldg-50</td><td>1654-0214</td></tr> <tr><td>2</td><td>High Temperature Furnace / Bay-3 / Bldg-50</td><td>1654-2239</td></tr> <tr><td>3</td><td>Squeezing Furnace / Bay-3/ Bldg-50</td><td>1561-0208</td></tr> <tr><td>4</td><td>Squeezing Furnace / Bay-4/ Bldg-50</td><td>3355-2038</td></tr> <tr><td>5</td><td>Car Bottom Furnace / Bay-5a / Bldg-50</td><td>1624-4143</td></tr> <tr><td>6</td><td>Continuous Discharge Furnace / Bay-8 / Bldg-50</td><td>1654-4015</td></tr> <tr><td>7</td><td>Swaging Furnace / Bay-A/ Bldg-50</td><td>3345-0060</td></tr> </tbody> </table> <p>1.All Castings required for furnace AMC will be provided by BHEL free of cost.<br/>2.All the Raw materials including fasteners required for fabrication will be provided by BHEL free of cost.</p> | Sl.no           | Bldg 1 DSPS Furnace | Location number | 1 | 100T Furnace/ Bay 1D/ Bldg 1 | 1524-0207 | 2 | 50T Furnace/ Bay 1D/ Bldg 1 | 1523-0206 | 3 | 10T Furnace/ Bay 1E/ Bldg 1 | 1522-0205 | 4 | 300T Furnace/ Bay 197/ Bldg 1 | 1593-2238 | 5 | 150T Furnace/ Press Shop | 1592-2237 | 6 | 46T Furnace/ Press Shop | 1591-1302 | 7 | 40T Furnace/ TPCS/ Bldg 1 | 1764-4200 | 8 | 10T Furnace/ TPCS/ Bldg 1 | 1723-2761 | 9 | 0.5T Furnace/ TPCS/ Bldg 1 | 1561-1492 | 10 | Therelek Furnace II/ Press Shop | 1516-2847 | 11 | 50T Furnace/ Bay 1A/ Bldg 1 | 1764-4166 | 12 | 30T Furnace/ Bay 1/ Bldg 1 | 1561-1511 |  | Bldg 50 Furnace | Location number | 1 | Continuous Discharge Furnace / Bay-2 / Bldg-50 | 1654-0214 | 2 | High Temperature Furnace / Bay-3 / Bldg-50 | 1654-2239 | 3 | Squeezing Furnace / Bay-3/ Bldg-50 | 1561-0208 | 4 | Squeezing Furnace / Bay-4/ Bldg-50 | 3355-2038 | 5 | Car Bottom Furnace / Bay-5a / Bldg-50 | 1624-4143 | 6 | Continuous Discharge Furnace / Bay-8 / Bldg-50 | 1654-4015 | 7 | Swaging Furnace / Bay-A/ Bldg-50 | 3345-0060 |  |
| Sl.no  | Bldg 1 DSPS Furnace                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Location number |                     |                 |   |                              |           |   |                             |           |   |                             |           |   |                               |           |   |                          |           |   |                         |           |   |                           |           |   |                           |           |   |                            |           |    |                                 |           |    |                             |           |    |                            |           |  |                 |                 |   |                                                |           |   |                                            |           |   |                                    |           |   |                                    |           |   |                                       |           |   |                                                |           |   |                                  |           |  |
| 1      | 100T Furnace/ Bay 1D/ Bldg 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1524-0207       |                     |                 |   |                              |           |   |                             |           |   |                             |           |   |                               |           |   |                          |           |   |                         |           |   |                           |           |   |                           |           |   |                            |           |    |                                 |           |    |                             |           |    |                            |           |  |                 |                 |   |                                                |           |   |                                            |           |   |                                    |           |   |                                    |           |   |                                       |           |   |                                                |           |   |                                  |           |  |
| 2      | 50T Furnace/ Bay 1D/ Bldg 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1523-0206       |                     |                 |   |                              |           |   |                             |           |   |                             |           |   |                               |           |   |                          |           |   |                         |           |   |                           |           |   |                           |           |   |                            |           |    |                                 |           |    |                             |           |    |                            |           |  |                 |                 |   |                                                |           |   |                                            |           |   |                                    |           |   |                                    |           |   |                                       |           |   |                                                |           |   |                                  |           |  |
| 3      | 10T Furnace/ Bay 1E/ Bldg 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1522-0205       |                     |                 |   |                              |           |   |                             |           |   |                             |           |   |                               |           |   |                          |           |   |                         |           |   |                           |           |   |                           |           |   |                            |           |    |                                 |           |    |                             |           |    |                            |           |  |                 |                 |   |                                                |           |   |                                            |           |   |                                    |           |   |                                    |           |   |                                       |           |   |                                                |           |   |                                  |           |  |
| 4      | 300T Furnace/ Bay 197/ Bldg 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1593-2238       |                     |                 |   |                              |           |   |                             |           |   |                             |           |   |                               |           |   |                          |           |   |                         |           |   |                           |           |   |                           |           |   |                            |           |    |                                 |           |    |                             |           |    |                            |           |  |                 |                 |   |                                                |           |   |                                            |           |   |                                    |           |   |                                    |           |   |                                       |           |   |                                                |           |   |                                  |           |  |
| 5      | 150T Furnace/ Press Shop                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1592-2237       |                     |                 |   |                              |           |   |                             |           |   |                             |           |   |                               |           |   |                          |           |   |                         |           |   |                           |           |   |                           |           |   |                            |           |    |                                 |           |    |                             |           |    |                            |           |  |                 |                 |   |                                                |           |   |                                            |           |   |                                    |           |   |                                    |           |   |                                       |           |   |                                                |           |   |                                  |           |  |
| 6      | 46T Furnace/ Press Shop                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1591-1302       |                     |                 |   |                              |           |   |                             |           |   |                             |           |   |                               |           |   |                          |           |   |                         |           |   |                           |           |   |                           |           |   |                            |           |    |                                 |           |    |                             |           |    |                            |           |  |                 |                 |   |                                                |           |   |                                            |           |   |                                    |           |   |                                    |           |   |                                       |           |   |                                                |           |   |                                  |           |  |
| 7      | 40T Furnace/ TPCS/ Bldg 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1764-4200       |                     |                 |   |                              |           |   |                             |           |   |                             |           |   |                               |           |   |                          |           |   |                         |           |   |                           |           |   |                           |           |   |                            |           |    |                                 |           |    |                             |           |    |                            |           |  |                 |                 |   |                                                |           |   |                                            |           |   |                                    |           |   |                                    |           |   |                                       |           |   |                                                |           |   |                                  |           |  |
| 8      | 10T Furnace/ TPCS/ Bldg 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1723-2761       |                     |                 |   |                              |           |   |                             |           |   |                             |           |   |                               |           |   |                          |           |   |                         |           |   |                           |           |   |                           |           |   |                            |           |    |                                 |           |    |                             |           |    |                            |           |  |                 |                 |   |                                                |           |   |                                            |           |   |                                    |           |   |                                    |           |   |                                       |           |   |                                                |           |   |                                  |           |  |
| 9      | 0.5T Furnace/ TPCS/ Bldg 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1561-1492       |                     |                 |   |                              |           |   |                             |           |   |                             |           |   |                               |           |   |                          |           |   |                         |           |   |                           |           |   |                           |           |   |                            |           |    |                                 |           |    |                             |           |    |                            |           |  |                 |                 |   |                                                |           |   |                                            |           |   |                                    |           |   |                                    |           |   |                                       |           |   |                                                |           |   |                                  |           |  |
| 10     | Therelek Furnace II/ Press Shop                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1516-2847       |                     |                 |   |                              |           |   |                             |           |   |                             |           |   |                               |           |   |                          |           |   |                         |           |   |                           |           |   |                           |           |   |                            |           |    |                                 |           |    |                             |           |    |                            |           |  |                 |                 |   |                                                |           |   |                                            |           |   |                                    |           |   |                                    |           |   |                                       |           |   |                                                |           |   |                                  |           |  |
| 11     | 50T Furnace/ Bay 1A/ Bldg 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1764-4166       |                     |                 |   |                              |           |   |                             |           |   |                             |           |   |                               |           |   |                          |           |   |                         |           |   |                           |           |   |                           |           |   |                            |           |    |                                 |           |    |                             |           |    |                            |           |  |                 |                 |   |                                                |           |   |                                            |           |   |                                    |           |   |                                    |           |   |                                       |           |   |                                                |           |   |                                  |           |  |
| 12     | 30T Furnace/ Bay 1/ Bldg 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1561-1511       |                     |                 |   |                              |           |   |                             |           |   |                             |           |   |                               |           |   |                          |           |   |                         |           |   |                           |           |   |                           |           |   |                            |           |    |                                 |           |    |                             |           |    |                            |           |  |                 |                 |   |                                                |           |   |                                            |           |   |                                    |           |   |                                    |           |   |                                       |           |   |                                                |           |   |                                  |           |  |
|        | Bldg 50 Furnace                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Location number |                     |                 |   |                              |           |   |                             |           |   |                             |           |   |                               |           |   |                          |           |   |                         |           |   |                           |           |   |                           |           |   |                            |           |    |                                 |           |    |                             |           |    |                            |           |  |                 |                 |   |                                                |           |   |                                            |           |   |                                    |           |   |                                    |           |   |                                       |           |   |                                                |           |   |                                  |           |  |
| 1      | Continuous Discharge Furnace / Bay-2 / Bldg-50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1654-0214       |                     |                 |   |                              |           |   |                             |           |   |                             |           |   |                               |           |   |                          |           |   |                         |           |   |                           |           |   |                           |           |   |                            |           |    |                                 |           |    |                             |           |    |                            |           |  |                 |                 |   |                                                |           |   |                                            |           |   |                                    |           |   |                                    |           |   |                                       |           |   |                                                |           |   |                                  |           |  |
| 2      | High Temperature Furnace / Bay-3 / Bldg-50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1654-2239       |                     |                 |   |                              |           |   |                             |           |   |                             |           |   |                               |           |   |                          |           |   |                         |           |   |                           |           |   |                           |           |   |                            |           |    |                                 |           |    |                             |           |    |                            |           |  |                 |                 |   |                                                |           |   |                                            |           |   |                                    |           |   |                                    |           |   |                                       |           |   |                                                |           |   |                                  |           |  |
| 3      | Squeezing Furnace / Bay-3/ Bldg-50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1561-0208       |                     |                 |   |                              |           |   |                             |           |   |                             |           |   |                               |           |   |                          |           |   |                         |           |   |                           |           |   |                           |           |   |                            |           |    |                                 |           |    |                             |           |    |                            |           |  |                 |                 |   |                                                |           |   |                                            |           |   |                                    |           |   |                                    |           |   |                                       |           |   |                                                |           |   |                                  |           |  |
| 4      | Squeezing Furnace / Bay-4/ Bldg-50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3355-2038       |                     |                 |   |                              |           |   |                             |           |   |                             |           |   |                               |           |   |                          |           |   |                         |           |   |                           |           |   |                           |           |   |                            |           |    |                                 |           |    |                             |           |    |                            |           |  |                 |                 |   |                                                |           |   |                                            |           |   |                                    |           |   |                                    |           |   |                                       |           |   |                                                |           |   |                                  |           |  |
| 5      | Car Bottom Furnace / Bay-5a / Bldg-50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1624-4143       |                     |                 |   |                              |           |   |                             |           |   |                             |           |   |                               |           |   |                          |           |   |                         |           |   |                           |           |   |                           |           |   |                            |           |    |                                 |           |    |                             |           |    |                            |           |  |                 |                 |   |                                                |           |   |                                            |           |   |                                    |           |   |                                    |           |   |                                       |           |   |                                                |           |   |                                  |           |  |
| 6      | Continuous Discharge Furnace / Bay-8 / Bldg-50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1654-4015       |                     |                 |   |                              |           |   |                             |           |   |                             |           |   |                               |           |   |                          |           |   |                         |           |   |                           |           |   |                           |           |   |                            |           |    |                                 |           |    |                             |           |    |                            |           |  |                 |                 |   |                                                |           |   |                                            |           |   |                                    |           |   |                                    |           |   |                                       |           |   |                                                |           |   |                                  |           |  |
| 7      | Swaging Furnace / Bay-A/ Bldg-50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3345-0060       |                     |                 |   |                              |           |   |                             |           |   |                             |           |   |                               |           |   |                          |           |   |                         |           |   |                           |           |   |                           |           |   |                            |           |    |                                 |           |    |                             |           |    |                            |           |  |                 |                 |   |                                                |           |   |                                            |           |   |                                    |           |   |                                    |           |   |                                       |           |   |                                                |           |   |                                  |           |  |

Sign & Seal of Contractor



An ISO: 9001  
Organization

## BHARAT HEAVY ELECTRICALS LIMITED

High Pressure Boiler Plant, Tiruchirappalli- 620014

**Maintenance & Services Dept. (FB)**

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|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|  | <p>3.Required assistance for removal and rebuilding of refractory materials will be provided by BHEL free of cost.</p> <p>4.All consumables like welding electrode, oxygen, acetylene Gas, Aluminium paint, Red oxide, enamel paint, grease,grinding wheel, wire brush, paint brush, compressed air,Electricity, etc. will be provided by BHEL free of cost.</p> <p>5.Contractor should bring Cutting set, welding holder, Tools &amp; Tackles required for this work with proper gate entry. Welding set will be provided by BHEL free of cost.</p> <p>6.Hand trolley for material movement will be provided by BHEL free of cost.</p> <p>7.Contractor should engage sufficient &amp; skilled manpower so that the work shall be completed in a short duration as per the plan of MMO Supervisor.</p> <p>8.All the movement of raw materials to be done by the contractor.</p> <p>9.The scraps and debris formed during execution of work should be moved to respective waste bins and the execution area near the furnace should be cleaned before handing over the furnace.</p> <p>10. Contractor should adhere to all the Safety precautions.<br/>Safety belt will be provided by BHEL free of cost on returnable basis for working at height. Work permit should be obtained from safety dept for height works.</p> <p>11.Contractor should be able to carry out the work immediately within a short notice of one day.<br/>Contractor must deploy manpower in suitable shifts (Both day and night shifts) so that the work should be carried out on 24 hrs basis.</p> <p>12. Contractor may visit the Furnace through executive / Supervisor /MMO B1 &amp; B50 before quoting to assess the quantum of work.</p> <p><b>NOTE:</b></p> <p>1) The contract will be given for item 20 to 50 together to one contractor as the works are interrelated for which combined L1 will be taken in to consideration.</p> <p>2)Other activities will be given to respective L1 Offerers.</p> |  |
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## BHARAT HEAVY ELECTRICALS LIMITED

High Pressure Boiler Plant, Tiruchirappalli- 620014

Maintenance & Services Dept. (FB)

☎: (0431) 257-5010 Fax: (0431) 257-6805

[e-mail: umadsankar @bhel.in](mailto:umadsankar@bhel.in)

### GENERAL TERMS AND CONDITIONS FOR M&S MECHANICAL CONTRACTS

#### 1) SAFETY:

- Safety precautions have to be ensured by the Contractor Depending on the work. Necessary work permit system and personal protective equipment's (PPE) such as electrical resistance rubber gloves, helmet, spectacle goggles, safety shoes, safety belt, etc. as applicable to Mechanical works should be adhered while carrying out the work.
- PPES for appropriate trade job has to be ensured by the contractor at the job site at all times.
- The work nature may demand working at heights and/or at depth areas. Hence all staff members must be of sound Physical and Mental Health who can complete the job without harming himself and others.
- In case any employee found incompetent to carry out the work as stated above/ misbehaving others/ consumed alcohol, he shall be sent out of the factory and the contractor has to arrange alternate manpower immediately. Else the day shall be marked absent.

2) Before quoting the bidders may inspect the site of work and its environments and be well acquainted with the actual working and other relevant conditions, position of materials and labour. Tenderers are also requested to go through General -Terms & conditions, Special -Terms & conditions of Contract, Scope of work, Technical Terms & Conditions, drawings and specifications and all other documents which form part of the agreement to be entered into.

#### 3) TENDERING CONDITIONS:

- The Bidders shall submit the offer in **TWO PART BID SYSTEM** (Part -I & II) along with EMD as indicated below which shall be sealed in ONE OUTER ENVELOPE.
- Envelope I- This sealed envelope should contain all the copies of technical bid together with un-priced commercial bid. This envelope should be clearly marked "Part I - Technical and commercial bid", indicating Enquiry No., Due Date and Address & Reference of the Bidder. Envelope I should contain sealed EMD cover indicating the enquiry detail.
- Envelope II - This sealed envelope should contain price details. This envelope should be clearly marked as - "Part -II Price bid", indicating Enquiry No., Due Date and Address & Reference of the Bidder.
- Envelope III - This sealed envelope should contain requisite **EMD**. This envelope should be clearly marked as - "EMD COVER", indicating Enquiry No., Due Date and Address & Reference of the Bidder.
- All the three envelopes shall be put in one cover, duly sealed, super scribing as offer for Enquiry No., and due date of opening, Name of the work and the address and reference of the Bidder.
- The offer should reach this office on or before the due date by 14.00 Hrs. (IST). Late offers will not be considered.
- Tender should not be addressed to any Individual's name but only by designation to:

THE DEPUTY MANAGER  
MAINTENANCE & SERVICES / CONTRACTS, 2&4 BUILDING,  
BHARAT HEAVY ELECTRICALS LIMITED, HPBP, TIRUCHIRAPALLI  
TAMIL NADU, INDIA - 620 014.

h) All entries in Tender documents shall be clearly written in one ink or typed. Tenders should be FREE FROM CORRECTION AND ERASURES, Corrections if any, must be attested. All amounts shall be indicated both in words as well as in figures. Where there is difference between amount quoted in words and figures, amount quoted in words shall prevail.

- Offers should be in ENGLISH and accompanied by detailed Point to point confirmation of the scope of work.

#### 4) OPENING OF TENDERS:

- The Part I - Technical & un-priced commercial bid and EMD Cover alone would be opened on the Tender opening date (as mentioned in the enquiry) by 14.30Hrs(IST).
- The Part II - Price bid of technically suitable Bidders alone would be opened. The Technically Suitable Bidders would be informed about the Price bid opening date.
- Clarifications if any required by BHEL for Technical evaluation would be sought from Bidders before opening of Part II - price bid.

#### 5. GST:

- Response to Tenders for Indigenous supplier will be entertained only if the vendor has a valid GST registration No (GSTIN) which should be clearly mentioned in the offer. If the dealer is exempted from GST registration, a declaration with due supporting documents need to be furnished for considering the offer. Dealers under composition scheme

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should declare that he is a composition dealer supported by the screen shot taken from GST portal. The dealer has to submit necessary documents if there is any change in status under GST.

b) Supplier shall mention their GSTIN in all their invoices (incl. credit Notes, Debit Notes) and invoices shall be in the format as specified/prescribed under GST laws. Invoices shall necessarily contain Invoice number (in case of multiple numbering system is being followed for billing like SAP invoice no, commercial invoice no etc., then the Invoice No. which is linked/uploaded in GSTN network shall be clearly indicated), Billed to party (with GSTIN) & Shipped to party details, item description as per PO, Quantity, Rate, Value, applicable taxes with nomenclature (like IGST, SGST, CGST & UTGST) separately, HSN/ SAC Code, Place of Supply etc.

c) All invoices shall bear the HSN Code for each item separately (Harmonized System of Nomenclature)/ SAC code (Services Accounting Code).

d) Invoices will be processed only upon completion of statutory requirement and further subject to following:

(i) Vendor declaring such invoice in Form GST ANX-1

(ii) Receipt of Goods or Services and Tax invoice by BHEL

e) As the continuous uploading of tax invoices in GSTN portal (in GST ANX-1) is available for all (i.e. both Small & Large) tax payers under proposed new GST Return System, all invoices raised on BHEL may be uploaded immediately in GST portal on despatch of material /rendering of services. The supplier shall ensure availability of Invoice in GST portal before submission of invoice to BHEL. Invoices will be admitted by BHEL only if the invoices are available in GSTN portal (in BHEL's GST ANX-2).

f) In case of discrepancy in the data uploaded by the supplier in the GSTN portal or in case of any shortages or rejection in the supply, then BHEL will not be able to avail the tax credit and will notify the supplier of the same. Supplier has to rectify the data discrepancy in the GSTN portal or issue credit note or debit note (details also to be uploaded in GSTN portal) for the shortages or rejections in the supplies or additional claims, within the calendar month informed by BHEL.

g) In cases where invoice details have been uploaded by the vendor but failed to remit the GST amount to GST Department (Form PMT-08 or Form GST RET-01 to be submitted) within stipulated time, then GST paid on the invoices pertaining to the month for which GST return not filed by the vendor will be recovered from the vendor along with the applicable interest (currently 24% p.a) and all subsequent bills of the vendor will not be processed till filing of the GST return by the vendor

h) In case GST credit is denied to BHEL due to non-receipt or delayed receipt of goods and/ or tax invoice or expiry of timeline prescribed in GST law for availing such ITC, or any other reasons not attributable to BHEL, GST amount claimed in the invoice shall be disallowed to the vendor.

i) Where any GST liability arising on BHEL under Reverse Charge (RCM), the vendor has to submit the invoices to BHEL well within the timeline prescribed in GST Law, to enable BHEL to discharge the GST liability. If there is a delay in submission of invoice by the vendor resulting in delayed payment of GST by BHEL along with Interest, then such Interest payable or paid shall be recovered from the vendor.

j) Under GST regime, BHEL has to discharge GST liability on LD recovered from suppliers/contracts. Hence applicable GST shall also be recoverable from suppliers/contractors on LD amount. For this Tax Invoice will be issued by BHEL indicating the respective supply invoice number.

k) GST TDS will be deducted as per Section 51 of CGST Act 2017 and in line with Notification 50/2018 – Central Tax dated 13.09.2018. GST TDS certificate which will be generated in GST portal subsequent to vendor accepting the TDS deduction in the GST portal, will be issued to the vendor.

### **6. LD/ PENALTY CLAUSE:**

If the contractor fails to complete the work as per terms & conditions of the order within the delivery schedule, 0.5% of the order value will be deducted from the bill/ recovered from the SD for each week of delay or part there of subject to a max. of 10% of the total contract value.

**7. Successful bidders** have to submit filled forms forwarded by BHEL HR, i.e. Form-III & Form-VII (shall be given with WO copy) & submit to ALC, Pondicherry for License before commencement of work.

### **8. RISK PURCHASE:**

In the event of any successful Tenderer's failure to fulfil any of the Tender / Contract obligations as per Contract / Agreement BHEL may entrust the job to alternate source and get it completed to meet BHEL requirement and additional expenditure, if any, including consequential cost, will be fully recovered from the Tenderer Contractor who failed to complete the job in line with Contract.

The decision of BHEL with regard to the actual losses / consequential expenditures (with 5% over heads) incurred by

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BHEL shall be final and binding on the Tenderer / Contractor.

### 9. SUSPENSION OF CONTRACT:

In the event of non-completion of contract/ un-satisfactory performance reported by the area Executive, resulting in cascading of events leading to impact in a negative way on financial/ safety/ procedures of various sections/ departments, the contract shall be terminated immediately with intimation and action shall be taken against the contractor as per the extant 'Guidelines for Suspension of business dealings with Suppliers/ Contractors'.

### 10. INDEMNITY:

The Contractor shall have to indemnify BHEL against all claims for injury or damage to any person or property caused by his negligence or negligence of his employees whilst in BHEL premises / sites.

### 11. BHEL FRAUD PREVENTION POLICY:

The bidder along with its associate/collaborators/sub-contractors/sub-vendors/consultants/ service providers shall strictly adhere to BHEL fraud prevention policy displayed on BHEL website <http://www.bhel.com> & shall immediately bring to notice of BHEL management about any fraud/ suspected fraud as soon as it comes to their notice.

### 12. PF,ESI:

The workmen of contractor should be covered under PF, ESI

### 13. DAMAGE & LOSS TO PRIVATE PROPERTY & INJURY TO WORKMEN

The Contractor shall at his own expense reinstate and make good to the satisfaction of the respective area HOD and pay compensation for any injury, loss or damage occurred to any property or rights whatever including property and rights of BHEL (or agents) servants or employee of BHEL, the injury loss or damage arising out of or in any way in connection with the execution or purported execution of the contract and further the contractor shall indemnify BHEL against all claims enforceable against BHEL (or any agent, servant or employee of BHEL) or which would be so enforceable against BHEL, in respect of any such injury (including injury resulting in death) loss or damage to any person whomsoever or property including all claims which may arise under the Employees Compensation Act or otherwise.

"BHEL shall recover the amount of compensation paid to victim(s) by BHEL towards loss of life / permanent disability due to an accident which is attributable to the negligence of contractor, agency or firm or any of its employees as detailed below.

- a) Victim: Any person who suffers permanent disablement or dies in an accident as defined below.
- b) Accident: Any death or permanent disability resulting solely and directly from any unintended and unforeseen injurious occurrence caused during the manufacturing/operation and works incidental thereto at BHEL factories/offices and precincts thereof, project execution, erection and commissioning, services, repairs and maintenance, trouble shooting, serving, overhaul, renovation and retrofitting, trial operation, performance guarantee testing undertaken by the company or during any works/during working at BHEL Units/Officers/townships and premises/Project sites
- c) Compensation in respect of each of the victims:
  - (i) In the event of death or permanent disability resulting from Loss of both limbs: Rs 10,00,000/- (Rs Ten lakh)
  - (ii) In the event of others permanent disability: Rs.7,00,000/- (Rs. Seven Lakh)
- d) Permanent Disablement: A disablement that is classified as a permanent total disablement under the proviso to section 2 (I) of the Employee's Compensation Act,1923"

### 14. ARBITRATION & CONCILIATION: -

(a) Except as provided elsewhere in this Agreement, in case amicable settlement is not reached between the parties, in respect of any dispute or difference; arising out of the formation, breach, termination, validity or execution of the Agreement ; or, the respective rights and liabilities of the Parties; or, in relation to interpretation of any provision of the Agreement ; or , in any manner touching upon the Agreement, then, either Party may , by a notice in writing to other Party refer such dispute or difference to sole arbitration of an arbitrator appointed by Head of the BHEL Units/Region/Division issuing the Agreement.

(b) The Arbitrator shall pass a reasoned award and the award of the Arbitrator shall be final and binding upon the parties.

(c) Subject as aforesaid, the provision of Arbitration & Conciliation Act 1996 (India) or statutory modification or re-enactment thereof and the rules made thereunder and for the time being in force shall apply to the arbitration proceeding under this clause. The seat of arbitration shall be Trichy, Tamil Nadu.

(d) The cost of arbitration shall be borne as per the award of the Arbitrator.

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(e) Subject to arbitration in terms of clause 28 above, the Courts at Trichy Tamil Nadu shall have exclusive jurisdiction over any matter arising out of or in connection with this Agreement.

(f) Notwithstanding the existence or any dispute or difference and/or reference for the arbitration, the Contractor shall proceed with and continue without hindrance the performance of its obligation under this Contract with due diligence and expedition in a professional manner except where the Contract has been terminated by either Party in terms of this Contract.

**In case of contract with Public Sector Enterprises (PSE) or a Government Department, the following shall be applicable**

In the event of any dispute or difference relating to the interpretation and application of the provisions of the Contract, such dispute or difference shall be referred by either Party for arbitration to the sole arbitrator in the Department of Public Enterprises to be nominated by the Secretary to the Government of India in-charge of the Department of Public Enterprises. The Arbitration and Conciliation Act, 1996 shall not be applicable to arbitration under this clause. The award of the arbitrator shall be binding upon the Parties to the dispute, provided, however, any Party aggrieved by such award may make further reference for setting aside or revision of the award to the Law Secretary, Department of Legal Affairs, Ministry of Law and Justice, Government of India. Upon such reference the dispute shall be decided by the Law Secretary or the Special Secretary or Additional Secretary when so authorized by the Law Secretary, whose decision shall bind the Parties hereto finally and conclusively. The Parties to the dispute will share equally the cost of arbitration as intimated by the Arbitrator.

**15. PAYMENT THROUGH BANK:-**

The contractor should remit the salary/wages for their workmen only through Bank. Monthly clearance will be given in respect of all contractors, if only the salary/ wages to the workmen has been remitted through the bank account of the contract workmen. The relevant Bank statement/proof for Bank payment should be produced along with PF and ESI challans to Welfare Section every month

**16. TERMINATION OF CONTRACT ON DEATH OF CONTRACTOR:**

Without prejudice to any of the rights or remedies under this contract, if the Contractor dies, or if the firm is dissolved or the company is liquidated, BHEL shall have the option of terminating the contract without compensation to the Contractor.

**17. Force Majeure Clause:**

If, at any time during the continuance of this Contract the performance in whole or in part by either party of any obligations under this Contract shall be prevented or delayed by reason of any War, Hostile acts of the public enemy Civil Commotion, Epidemics, or Acts of God (Floods, Storm/Cyclone, Hurricane, Earthquake etc. ) then provided notice of happening of any such event is given by either party to other within 7 days from the date of occurrence thereof neither of the parties shall by reason of such event be entitled to terminate this Contract or claim for damages against the other in respect of such non-performance or delay for such period. Performance under the contract shall be resumed as soon as practicable after such event has come to an end or ceased to exist. If the performance in whole or part of any obligation under this Contract is prevented or delayed by reason of any such event, claims for extension of time may be granted for periods considered reasonable by the respective area HOD at his discretion subject to prompt notification by the contractor.

**18. IMPORTANT NOTE:**

BHEL reserves the right to short close this work with one-month advance notice due to administrative reasons. BHEL's decision in this regard is final. Under such circumstances payment will be made for on pro rata basis for the service rendered out up to the period.

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### **COMMERCIAL TERMS AND CONDITIONS FOR M&S MECHANICAL CONTRACTS**

- 1) 100% payment will be made after completion of work on pro-rata basis on submission of invoice in triplicate duly certified by Area In-charge.
- 2) Attendance register should be maintained.
- 3) Payment of **EMD** should be done in the methods given in Spl. Instructions, sl.no.1, page-1 of the NIT.
- 4) Mode of Payment of **Security Deposit**:
  - a) **Bank Guarantee** from Scheduled Banks/ Public Financial Institutions as per Companies Act. Bank Guarantee format should have approval of BHEL or
  - b) **Local Cheques** of Scheduled Banks (subject to realization)/ **Pay Order/ DD/ Electronic Fund Transfer** in favour of BHEL or
  - c) **Fixed Deposit Receipt (FDR)** issued by Scheduled Banks/ Public Financial Institutions as defined in the Companies act (FDR should be in the name of the Contractor, a/c BHEL) or
  - d) **Securities available from Indian Post Offices**, i.e. National Savings Certificates, Kisan Vikas Patras, etc. (held in the name of Contractor furnishing the security & duly endorsed/ pledged, as applicable, in favour of BHEL). While making such payment, Enquiry number should be mentioned in Remark column.
- 5) **Procedure to remit money to BHEL Trichy's Account (e-Collect Mode):**  
 Login to : <https://www.onlinesbi.com/prelogin/icollecthome.htm?corplD=574693>
  - a) Accept the terms & conditions, click "PROCEED".
  - b) Select State "TAMILNADU" and Institution type "INDUSTRY". Select "BHEL TRICHY" under "INDUSTRY".
  - c) In the next page, select APPROPRIATE category, fill details correctly & click "SUBMIT".
  - d) If all details entered are correctly populated, click "CONFIRM" to proceed.
  - e) Make payment as per your convenience. (Options available are payment of fees through **SBI Net Banking, State Bank ATM cum Debit Cards / Other Bank Debit / Credit Cards and through SBI Branches**).
  - f) SAVE & Keep the copy of receipt for future reference.
- 6) EMD & SD amount shall not carry any interest.
- 7) Security Deposit shall be furnished by the successful vendor to the total contract value before starting the work. The total amount of Security Deposit will be 5% of the contract value. EMD of the successful tenderer shall be converted and adjusted towards the required amount of Security Deposit.
- 8) **SD is forfeited** in case of any failure in execution of the contract or due to any shortcomings observed in the documentation furnished earlier for getting qualified or in case the Contractor is banned. GST will be charged on the EMD/SD amount forfeited from the bidder at the applicable rates. GST tax Invoice will be issued to the vendor on receipt/recovery of GST amount from the vendor
- 9) An additional payment as per circular ref. BHEL: HR: W: EW, dt.08.04.2014 is to be paid to the contract workmen as below, over and above the minimum wages prescribed by the government of Tamil Nadu:
 

|             |             |
|-------------|-------------|
| Unskilled   | - Rs.3200/- |
| Semiskilled | - Rs.3700/- |
| Skilled     | - Rs.4100/- |
- 10) Bonus @ 8.33 % to workmen to be paid.
- 11) **Rate should be quoted as per price bid format.**
- 12) The rate that is offered should be comprehensive and no separate charges will be made towards expenses like travel, boarding & lodging.
- 13) GST not to be included in quoted rate & to mention separately as percentage. Other taxes, if any, are inclusive.
- 14) Tax deduction will be made from every bill at the prevailing rate as per the Government rule and regulation from time to time.
- 15) In the course of evaluation if more than one bidder happens to occupy L-1 status, effective L-1 will be decided by soliciting discounts from the respective L-1 bidders. In case more than one bidder happens to occupy the L-1 status even after soliciting discounts, the L-1 bidder shall be decided by a toss /draw of lots in the presence of the respective L-1 bidder(s) or their representative(s). Ranking will be done accordingly. BHEL's decision in such situations shall be final and binding.

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### SCHEDULE FOR PRICE BID

NAME OF WORK: **Furnace AMC contract for Bldg.-1, DSPS and Bldg 50 furnaces.**

Ref: Enquiry no: 9242000020; dt. 12/09/2020; Due dt. 05/10/2020, 14.00 Hrs.

| Sl. No | SCOPE OF WORK                           | Qty. | UoM | RATE per UNIT | VALUE |
|--------|-----------------------------------------|------|-----|---------------|-------|
| 10/10  | Removal & re-assembly of furnace door   | 14   | NO  |               | -NA-  |
| 10/20  | Castings replacement in furnace walls   | 65   | M   |               | -NA-  |
| 10/30  | Sand sealing repair in lintel/ door     | 17   | M   |               | -NA-  |
| 10/40  | Repair in lintel sand sealing           | 20   | M   |               | -NA-  |
| 10/50  | Repair of damaged air duct upto 250 mm  | 30   | M   |               | -NA-  |
| 10/60  | Repair of damaged air duct above 251 mm | 25   | M   |               | -NA-  |
| 10/70  | Repair of damaged burner air bend pipe  | 35   | NO  |               | -NA-  |
| 10/80  | Servicing of wheel type air valves      | 60   | NO  |               | -NA-  |
| 10/90  | Servicing of butterfly air valves       | 35   | NO  |               | -NA-  |
| 10/100 | Fabrication of structure as per drawing | 15   | MT  |               | -NA-  |
| 10/110 | Other miscellaneous works in furnaces   | 400  | NO  |               | -NA-  |
| 10/120 | Replacement & repair of Shell Plate     | 70   | M2  |               | -NA-  |

- ❖ Value = (Total Qty.) X (Rate per Unit). This will be calculated by BHEL.
  - ❖ Item wise L1 will be considered. However, Work for item sl. No's 10/20, 10/30, 10/40 & 10/50 shall be awarded to a single vendor as the works are interlinked.
  - ❖ GST not to be included in the quoted rate & to be mentioned as a percentage separately.
- Other taxes, if any, are inclusive

\*\*Detailed scope of work and other terms and conditions are specified in the Technical Bid of the Tender.

\*\*\*\*\*

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## Certificate by Chartered Accountant on Letter Head

This is to certify that M/s. \_\_\_\_\_ (hereinafter referred to as 'company') having its registered office at \_\_\_\_\_ is registered under MSMED Act 2006, (Entrepreneur Memorandum No (Part II)) \_\_\_\_\_ dt. \_\_\_\_\_, Category: (Micro/Small). (Copy enclosed).

Further verified from the Books of Accounts that the investment of the company as per the latest audited financial year \_\_\_\_\_ as per MSMED Act 2006 is as follows:

**1. For Manufacturing Enterprises:** Investment in plant and machinery (i.e. original cost excluding land and building and the items specified by the Ministry of Small Scale Industries vide its notification No. S.O.1722(E) dated October 5, 2006):

₹ \_\_\_\_\_ Lacs

**2. For Service Enterprises:** Investment in equipment (original cost excluding land and building and furniture, fittings and other items not directly related to the service rendered or as may be notified under the MSMED Act 2006):

₹ \_\_\_\_\_ Lacs

**(Strike off whichever is not applicable)**

The above investment of ₹ \_\_\_\_\_ Lacs is within permissible limit of ₹ \_\_\_\_\_ Lacs for \_\_\_\_\_ Micro / Small (Strike off which is not applicable) Category under MSMED Act 2006.

Or

The company has been graduated from its original category (Micro/Small) (Strike off which is not applicable) and the date of graduation of such enterprise from its original category is ..... (dd/mm/yyyy) which is within the period of 3 years from the date of graduation of such enterprise from its original category as notified vide S.O. No. 3322(E) dated 01.11.2013 published in the gazette notification dated 04.11.2013 by Ministry of MSME.

Date:

Name:

(Signature)

Membership number:

Seal of Chartered Accountant