

# BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

High Pressure Boiler Plant, Tiruchirappalli 620 014, India

**MAINTENANCE & SERVICES DEPARTMENT**

☎: (0431) 2575263 Fax: (0431) 2576805 e-mail: [gtraj@bheltry.co.in](mailto:gtraj@bheltry.co.in)



ISO 9001

ENQ No: 9241600145

03.09.2016

## NOTICE INVITING TENDER

Sub: **SHOT BLASTING MACHINE AMC IN BLDG-1, BLDG-5, BLDG-6 & UNIT-II – Reg.**

Ref: Enquiry no: 9241600145 Dated 03/09/2016. Due date: 28/09/2016, 14.00 Hrs.

Tender of the following work should be submitted in a sealed cover consisting of three inner sealed covers such as 1) EMD cover, 2) Technical bid cover & 3) Price bid cover, all superscribing the name of work, enquiry number etc.

- 1) EMD cover shall contain requisite EMD in the form of DD. Tenderers who had already remitted one time EMD should furnish a copy of the cash receipt of the remittance in the EMD cover. Tender without EMD / one time EMD reference will be summarily rejected and the Technical bid & price bid shall not be considered.
- 2) 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 such as experience, value of work executed in the similar nature of work etc. Any bid without proper documentary evidence for pre-qualification shall not be considered for further evaluation.
- 3) One set of unpriced bid of Contract Work Schedule duly signed by the tenderer for accepting the work content (BOM) should be submitted along with the Technical bid for technical evaluation.
- 4) The price bid cover shall contain price bid document duly filled in and signed by the tenderer in all the pages. The tenderer has to quote most competitive rates for all the items given in the Bill of Quantities in price bid.

The complete Technical bid and price bid along with requisite **EMD of Rs.40,000/-** for this work in the form of **Demand Draft in favour of M/s.BHEL, Trichy** shall reach the office of the undersigned on or before 28/09/2016 at 14.00 Hrs. Tenderers who had already remitted one time EMD should furnish a copy of the cash receipt of the remittance in the EMD cover. EMD in any other form will not be accepted.

MSE suppliers can avail EMD Waiver benefits only if they submit along with the offer, attested copies of either EM II Certificate having deemed validity (five years from the date of issue of acknowledgement in EM II) or valid NSIC certificate or EM II Certificate along with attested copy of a CA Certificate (Format Enclosed). Tenders without EMD/MSME proof as detailed above will be summarily rejected.

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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 receipt and opening of the tender shall automatically fall on the same timing of the next working day. 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.

Clarification if any can be obtained from the undersigned.

Kindly acknowledge the receipt of the entire set of tender document.

Thanking you,

Yours faithfully,

For Bharat Heavy Electricals Limited,  
Sr. Manager  
Contracts  
Maintenance & Services Dept

Encl:

- 1) NIT – Notice Inviting tender (Consists of Preamble, Technical Bid & price bid)

Tender should be addressed to: **THE SENIOR MANAGER,**

**MAINTENANCE & SERVICES / CONTRACTS,**

**2&4 BUILDING, BHARAT HEAVY ELECTRICALS LIMITED,**

**HIGH PRESSURE BOILER PLANT,**

**TIRUCHIRAPPALLI - 620014,**

**TAMILADU**

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## NOTICE INVITING TENDER

01.	Name of work	<b>SHOT BLASTING MACHINE AMC IN BLDG-1, BLDG-5, BLDG-6 &amp; UNIT-II</b>
02.	Earnest Money Deposit	Rs.40,000/-
03.	Duration of the contract	1 Year (From the date of commencement of the work)
04.	Last Date for Receipt of Tender	14.00 Hrs on 28/09/2016
05.	Date of Technical Bid Opening	14.30 Hrs on 28/09/2016
05.	Date of Price Bid Opening	Will be intimated to those who are Qualified separately.
07.	Guarantee Period	Not applicable

The Tender documents can be down loaded from BHEL website ([www.bhel.com](http://www.bhel.com)) / govt. website ([www.tenders.gov.in](http://www.tenders.gov.in)) at free of cost.

Tender document contains 22 Pages (Technical Bid – 20 Pages, Schedule for price bid – 02 pages).

ISSUING OFFICER

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## TECHNICAL BID

NAME OF THE WORK: **SHOT BLASTING MACHINE AMC IN BLDG-1, BLDG-5, BLDG-6 & UNIT-II**

Enquiry no: 9241600145 Dated 03/09/2016. Due date: 28/09/2016, 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/Facilities in any engineering industry in the last five years (from the date of opening of tender) are eligible to participate in the tender. Documentary proofs/Xerox copies of the POs proving the same are to be enclosed. Otherwise offer is liable for rejection. Bidder to confirm	
2	Name and contact details like E-mail, Phone number, Fax no, etc. of the customer / company where the maintenance contract is executed. Bidder to confirm	
3	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.	
4	PAN Number (Copy to be Enclosed)	
5	Service tax Registration Number (If applicable) – Certificate copy to be enclosed	
6	Acceptance for Scope of Work as per the Enquiry	
7	Acceptance for All Terms & Conditions as per the Enquiry	

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## SCOPE OF WORK:

### 1. SHOT BLASTING MACHINE AMC IN BLDG-1

The details pertaining to shot blasting machine available at BLDG-1:

Sl. No	Name of the Machine	Equipment No.	Model	Capacity	Make	Bay	Bldg.
1	SHOT BLASTING MACHINE	6161-3502	BM-2K205	25 TON	INDABRATOR LTD MUMBAI	12	1

Sl no	SCOPE OF WORK	QTY
<b>A1</b>	<b>Dust collector-Filters Cleaning for 25TON MACHINE AT BAY-12 /BLDG-1</b> 1. Dismantle all the covers over the dust collecting chamber. 2. Dismantle all the 64 Nos. of filters and replace the filters with cleaned/Spare filters available near the machine. Before replacing it should be ensured that the rubber lining on the filters are not in damaged condition. If damaged the information should be given to the concerned supervisor. 3. This dismantling and replacing of 64 no of filters to be completed in one day. 4. Then transport the clogged filters to identified cleaning area and clean all the 64 Nos. of filters. 4. After cleaning the filters at remote place, the filters to be stacked near the machine. This cleaning work to be completed within one week time from the day of dismantling.  To Quote: - For cleaning and replacement of 1 set (64 Nos.) of filters.	<b>12 SET</b>
<b>A2</b>	<b>Repair works in Screw Conveyor for 25TON MACHINE AT BAY-12 /BLDG-1</b> The contractor has to do the following works: 1. Dismantle the chain and sprocket assembly from the screw conveyor end. 2. Remove the shots and dismantle the Screw conveyor cover and do the repair work for the damaged portions in it. 3. Remove and shift the damaged screw conveyor piece from the bunker to the top level and dismantle the connecting shaft and bolts. 4. Remove the worn out shaft and bushes and replace by new one. 5. Carry out the repair works in the screw conveyor blades. 6. Replace the end bearing wherever required. 7. Assemble the entire parts dismantled after repairing and ensure smooth running. 8. Removing the shots from the screw conveyor and clear the shots from the floor are the scope of contractor. 9. For attending the above repair work, the cross conveyor dismantling is needed, and the same has to be carried out by contractor. After completion of all the works the cross conveyor should be assembled back  To Quote :- For repairing 1 piece of Screw conveyor (around 1.7m length)	<b>10 NO</b>

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<b>A3</b>	<b>Replacement of weld mesh and perforated plates inside the blasting chamber for 25TON MACHINE AT BAY-12 /BLDG-1</b> 1. The damaged weld mesh/perforated plates inside the blasting chamber are to be removed by gas cutting. 2. The new weld mesh/perforated plates are to be positioned perfectly and welded in corners for retaining. 3. The damaged weld mesh/ perforated plates to be scraped and put inside the identified scrap bin, as instructed by the MMO supervisor.  To Quote:- For replacement of 1 sq. metre of weld mesh.	<b>18 M2</b>
<b>A4</b>	<b>Repair works in Soundabarator for 25TON MACHINE AT BAY-12 /BLDG-1</b> 1. The soundabarator unit to be dismantled from the machine by removing the bolt and nut assembly. 2. The pneumatic cylinder should be disconnected from the line for servicing. 3. The pneumatic cylinders to be serviced and should be made to move freely. 4. If the C cup in the soundabarator is found worn out, it should be repaired and reassembled. 5. The soundabarator unit and pneumatic cylinder should be assembled back and to be checked for smooth functioning. 6. If the pneumatic line was found damaged, it should be replaced with a new hose.  To Quote :-For repair of 1 soundabarator unit	<b>18 NO</b>
<b>A5</b>	<b>Repair works in Wheelabarator for 25TON MACHINE AT BAY-12 /BLDG-1</b> 1. The end covers of the wheelabarator unit should be removed. 2. The control cage and the side plates are to be removed. 3. The impeller unit should be removed wherever required. 3. Any worn out parts are to be replaced with new ones. 4. The blades are to be replaced, wherever required. 5. The wheelabarator unit should be assembled back in the machine and checked for smooth operations. 6. The control cage should be assembled back as per the MMO supervisor's instructions.  To Quote:-For repair of 1 wheelabarator unit.	<b>18 NO</b>

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<b>A6</b>	<b>Welding/Patch-up work on the structural for 25TON MACHINE AT BAY-12 /BLDG-1</b> Welding/Patch-up work to be done with various thickness of plates on the shell plate of Blasting Chamber, pipe lines and other parts of shot blasting machine in case of any punctures or distortion in the shell plates. Wherever required liner plates to be removed and refitted for welding inside the chamber.  To Quote:- For Patch-up work of 1 Sq. feet.	<b>60 FT2</b>
<b>A7</b>	<b>Replacement/servicing of Chains and sprockets for 25TON MACHINE AT BAY-12 /BLDG-1</b> 1. Wherever link damage was found in the chain, new Link to be replaced. 2. The Chain has to be serviced by cleaning and greasing. 3. Worn out sprockets to be replaced by new one. 4. Wherever required dismantling and re-assembling of gear box to be carried out. 5. The coupling bolts replacing/tightening work to be done. 6. All the above points are applicable to the Chain drives at bottom screw conveying system and top of Elevator.  To Quote:-For servicing & mounting One No. of Chain drive.	<b>10 NO</b>
<b>A8</b>	<b>Replacement of new buckets in elevator for 25TON MACHINE AT BAY-12 /BLDG-1</b> 1. The contractor has to remove the damaged buckets in the bucket elevator by removing the bolts. 2. Wherever the buckets or elevator are damaged at the fixing portion of the bolts, the holes to be repaired or new holes to be made for mounting the new buckets. 3. After replacing the buckets the elevator belts are to be properly tightened.  To quote: Replacing one bucket.	<b>18 NO</b>
<b>A9</b>	<b>Repair works in cable track for 25TON MACHINE AT BAY-12 /BLDG-1</b>  Repairs like straightening/replacing the cable track in the mono rail by welding, grinding, leveling to ensure proper movement of moving cable track.  To Quote:-For repair/replacement of 1 meter length of cable track.	<b>10 M</b>

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<b>A10</b>	<b>Weekly general checkup of the machine for 25TON MACHINE AT BAY-12 /BLDG-1</b>  The following works are to be carried out on all sundays through-out the year:  <ol style="list-style-type: none"><li>1. Check for alignment and looseness of all drive chains in the screw conveyor and the bucket elevator areas of the machine and correct the same. For checking the chains, chain guards are to be removed and the same should be assembled back after checking.</li><li>2. Check all the drive belts of the wheelabarators and screw conveyors for any damage or looseness and inform the MMO supervisor for replacing them. For checking the belts, belt guards are to be removed and the same should be assembled back after checking.</li><li>3. Remove one of the filters from the dust collector chamber and check for the level of the dust in the cartridge. After assessing the condition of the filter, it should be assembled inside the chamber. The condition of the filters should be reported to the MMO supervisor for carrying out the periodical cleaning of the filter elements.</li><li>4. Remove the window of the bucket elevators and run both the bucket elevator once. If any buckets are found damaged it should be reported to the MMO supervisor.</li><li>5. Check the oil level of all gear boxes in the machine and fill the same. Clean the shots and dust in all the gear box, coupling areas.</li><li>6. Run the screw conveyors once and check for any abnormal sound or jerk, punctures in the conveyor covers, while running. The same should be reported to the MMO supervisor.</li><li>7. The condition of weld mesh and perforated plates inside the blasting chamber should be checked and shall be reported to MMO supervisor.</li><li>8. Check the condition of the impeller blades in all the wheelaborator units (8Nos) and inform the MMO supervisor for corrective action.</li><li>9. Contractor should record all the conditions in the register provided by MMO and report as per instruction of supervisor.</li></ol> To Quote:-For One No. of Weekly general checkup.	<b>50 NO</b>
<b>A11</b>	<b>Replacement of new pipe lines: Size 8" &amp; 12" Dia for 25TON MACHINE AT BAY-12 / BLDG-1</b>  <ol style="list-style-type: none"><li>1. Dismantle the Existing Pipe line by removing the bolts in the end flanges or by gas cutting.</li><li>2. End flanges/ bends are to be fabricated and welded to the new pipeline.</li><li>3. Reassemble the new pipe line and tight the flange bolts.</li><li>4. Wherever the flange gaskets are found damaged, it should be replaced by new one.</li></ol> To Quote: For 1 Mtr. length of straight pipeline/one bend pipe.	<b>24 M</b>

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<b>A12</b>	<b>Replacement of Ni-hard Plate for 25TON MACHINE AT BAY-12 /BLDG-1</b>  1. Ni-hard Plate inside the blasting chamber should be replaced in case of worn-out/breakage. 2. The hook arrangement to be welded to the new plate and then the plate should be hanged in the chamber.  To quote: Replacing/repair of one Ni-hard plate.	<b>40 NO</b>
<b>A13</b>	<b>Replacement of Rubber curtains for 25TON MACHINE AT BAY-12 /BLDG-1</b>  1. The bend rubber curtains at the door entry to be removed. 2. The new curtains should be fixed in place of the old curtains by bolts.  To quote: Replacing 10 rubber curtains.	<b>80 NO</b>
<b>A14</b>	<b>Replacement of Wire Brushes at roof for 25TON MACHINE AT BAY-12 /BLDG-1</b>  1. The contractor has to first remove the rubber sheet over the wire brush. 2. The damaged wire brush to be removed by removing the fixing bolts. 3. The damaged wire brush piece to be replaced by the new piece and to be bolted to the frame. 4. Wherever the rubber sheets are found damaged new rubber sheets to be replaced. To quote: For replacing 1 wire brush piece.  <b>NOTE :</b> 1. The contractor shall report to the MMO supervisor immediately to attend the activities A2, A4, A5, A7, A9 and A14 if he finds any abnormalities in weekly general checkup. 2. The Contractor should quote separate rate for each items.	<b>20 NO</b>

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## 2) SHOT BLASTING MACHINE AMC IN BLDG-5:

The details pertaining to shot blasting machine available at BLDG-5:

Sl. No	Name of the Machine	Equipment No.	Model	Capacity	Make	Bay	Bldg.
1	SHOT BLASTING MACHINE	61613167	JET IIITYPE	3T	INDABRATOR	OUTER YARD	5

Sl.no	SCOPE OF WORK	QTY
<b>B1</b>	<p><b>SHOT BLASTING MACHINE MAINTENENCE AT Bldg-5 for 3TON MACHINE AT OUTERYARD/BLDG-5:</b></p> <p>(All the following work are to be carried out by the contractor as per the instructions of MMO supervisor / Executive once in a month and 12 times in a year)</p> <ol style="list-style-type: none"><li>1. Cleaning of machine for shots accumulation and arresting of shots leakage from the INDABRATOR shot-blasting machine.</li><li>2. Turbine assembly inclusive of control cage, Blades and housing to be rectified/ replaced with spares during failures Ensure the 11 'O' clock position for control cage.</li><li>3. Repair / Replacement of Ni-hard Plate inside the blasting chamber in case of worn-out / breakage.</li><li>4. Replacement of Rubber curtains and Rubber sheets in the chambers on the sides and roof during damage.</li><li>5. Replacement / repair of weld mesh and perforated plates in the blasting chamber.</li><li>6. Welding / Patch work on the shell plate inside, outside &amp; roof of the chambers during damages.</li><li>7. Cleaning, servicing and replacement of Pneumatic lines, valve stuck-up, valve clogging, and hoses etc.,</li><li>8. Clogging of shots to be cleared in elevator system, Bunkers, Feed lines, valves etc., whenever required.</li><li>9. Replacement of wire brushes in the roof seal assembly.</li><li>10. Repairs like welding, grinding, leveling in Monorail assembly to Ensure proper movement of moving beam.</li><li>11. Repairs works like alignment in screw conveyor, Elevator, chain drives and replacement of damaged components in the above systems.</li><li>12. Any damage in ducting / hose connection in shots feeding line to be attended / repaired by gas cutting &amp; welding.</li><li>13. Repair works like belt replacement, welding of filter mesh and cleaning of filter bags in dust collection system, replacement of cut v-belts in blower to be attended.</li></ol> <p>Note: Twelve times of maintenance to be carried out by the Contractor for a <b>period of ONE year (one time in every Month)</b>.</p>	<b>12 Cycles</b>

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## 3) SHOT BLASTING MACHINE AMC IN BLDG-6:

The details pertaining to shot blasting machine's available at BLDG-6:

Sl. No	Name of the Machine	Equipment No.	Model	Capacity	Make	Bay	Bldg.
1	Shot Blasting-Pangborn	6131-3279	6GN-IR36	1T	Pangborn India Ltd, Mumbai	5	6
2	Shot Blasting-Indabrator	6131-3166	1998	3T	Nesco Limited, Mumbai	5	6
3	10T Shot Blasting	6161-4300	2009	10T	SPT, UAE	Outer Yard	6

Sl.no	SCOPE OF WORK	QTY
<b>C1</b>	<b>Dust Collector Filter Cleaning for 1Ton/3Ton/10Ton M/C's at bldg.-6</b>  1 Dismantle all the covers over the dust collecting chamber. 2 Dismantle all the dust collecting filters. This dismantling and cleaning works to be completed in only on Sunday (Only one day). 3. Transport the clogged filters to identified cleaning area and clean all the filters. 4. After cleaning the filters at remote place, the filters shall be moved to machine and to be assembled back. 5. Assemble all the covers removed from the dust collecting chamber. 6. Ensure proper operation of the dust collecting chamber.	<b>8 SET</b>
<b>C2</b>	<b>Repair works in Cross Screw Conveyor (Air Wash Unit) for 1Ton/3Ton/10Ton M/C's at bldg.-6</b>  1. Remove the Screw conveyor cover and shots from the assembly. Identify damaged portions of the air wash system. 2. Dismantle end supporting pillow blocks for removing screw conveyor. 3. Remove and shift the damaged screw conveyor from the bunker. 4. Remove the worn out shaft and bushes and replace by new one. 5. Carry out the repair works in the screw conveyor blades if required. 6. Replace the end pillow block bearing wherever if required. 7. Visually check for any further damage in the air wash system. If any, immediately report to MMO supervisor/Executive and rectify the same as per their instruction. 8. Assemble the entire parts dismantled after repairing and ensure smooth running.	<b>12 NO</b>

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<b>C3</b>	<b>Repair works in Longitudinal Screw Conveyor for 1Ton/3Ton/10Ton M/C's at bldg.-6</b>  1. Remove the Screw conveyor cover and shots from the assembly. Identify damaged portions of the shots conveying system. 2. Dismantle end supporting pillow blocks for removing screw conveyor. 3. Remove and shift the damaged screw conveyor from the conveying system. 4. Remove the worn out shaft and bushes and replace by new one. 5. Carry out the repair works in the screw conveyor blades if required. 6. Replace the end pillow block bearing wherever if required. 7. Visually check for any further damage in the system. If any, immediately report to MMO supervisor/Executive and rectify the same as per their instruction. 8. Assemble the entire parts dismantled after repairing and ensure smooth running .	<b>10 NO</b>
<b>C4</b>	<b>Repair works in Bucket Elevator for 1Ton/3Ton/10Ton M/C's at bldg.-6</b>  1. Visually identify the damaged bucket of the bucket elevator. 2. Replace the damaged buckets with new bucket and properly screw the same. 3. Replace the end support bearing wherever required. 4. Assemble the entire parts dismantled after repairing and ensure smooth running.	<b>12 NO</b>
<b>C5</b>	<b>Repair works in Blast Wheel for 1Ton/3Ton/10Ton M/C's at bldg.-6</b>  1. The end covers of the Blast Wheel unit should be removed. 2. The control cage and the wear plates are to be removed carefully. 3. The impeller unit should be removed wherever required. 4. Any worn out parts are to be replaced with new ones. 5. The worn out blades are to be replaced, wherever required. 6. New blades for an impeller shall be selected such a way that all blades should be of equal weight. 7. The Blast Wheel unit should be assembled back in the machine and checked for smooth operations. 8. The control cage should be assembled back. 9. Spindle housing bearing/housing is to be checked for damages. If any damage, it has to be replaced with new bearings. 10. After bearing assembly, spindle shaft etc. alignment of the spindle shaft is to be perfectly checked and corrected. 11. After complete assembly of blades, trail run should be taken and if any rubbing of pates found, that need to be corrected by the contractor.	<b>20 NO</b>

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<b>C6</b>	<b>Welding / Patch-up work on the structural for 1Ton/3Ton/10Ton M/C's at bldg.-6</b>  1. Welding/Patch-up work to be done with various thickness of plates on the shell plate of Blasting Chamber, pipe lines and other parts of shot blasting machine in case of any punctures or distortion. 2. Wherever required liner plates to be removed and refitted for welding inside the chamber. 3. Patch up work of the complete machine system is scope of the contractor.	<b>30 NO</b>
<b>C7</b>	<b>Replacement/servicing of Chains and sprockets in Bucket Elevator, Screw conveyors and Job rotation arrangement for 1Ton/3Ton/10Ton M/C's at bldg.-6</b>  1. Wherever link damage/or complete chain damage found, new Link/chain to be assembled. 2. The Chain has to be serviced by cleaning and greasing. 3. Worn out sprockets to be replaced by new one. 4. Wherever required dismantling and re-assembling of gear box to be carried out. 5. The coupling bolts replacing/tightening work to be done. 6. All the above points are applicable to all the Chain drives at bottom, top screw conveying system and job rotation arrangement.	<b>12 NO</b>
<b>C8</b>	<b>Weekly general check-up of the machine for 1Ton/3Ton/10Ton M/C's at bldg.-6</b>  The following works are to be carried weekly through-out the year. 1. Check for alignment and looseness of all drive chains in the screw conveyor and the bucket elevator areas of the machine and correct the same. For checking the chains, chain guards are to be removed and the same should be assembled back after checking. 2. Check all the drive belts of the Blast Wheels and screw conveyors for any damage or looseness and inform the MMO supervisor for replacing them. For checking the belts, belt guards are to be removed and the same should be assembled back after checking. 3. Remove one of the filters from the dust collector chamber and check for the level of the dust in the cartridge. After assessing the condition of the filter, it should be assembled inside the chamber. The condition of the filters should be reported to the MMO supervisor/Executive for carrying out the periodical cleaning of the filter elements	<b>52 NO</b>

Sign & Seal of Contractor

# BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

High Pressure Boiler Plant, Tiruchirappalli 620 014, India

**MAINTENANCE & SERVICES DEPARTMENT**

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	<p>4. Remove the window of the bucket elevators and run bucket elevator once. If any buckets are found damaged it should be reported to the MMO supervisor for replacement.</p> <p>5. Check the oil level of all gear boxes in the machine and fill the same. Clean the shots and dust in all the gear boxes, coupling areas.</p> <p>6. Run the screw conveyors once and check for any abnormal sound or jerk, punctures in the conveyor covers, while running. The same should be reported to the MMO supervisor and recorded.</p> <p>7. The condition of weld mesh and perforated plates inside the blasting chamber should be checked and shall be reported to MMO supervisor.</p> <p>8. Check the condition of the impeller blades in all the Blast wheels units (8 Nos) and inform the MMO supervisor for corrective action.</p> <p>9. Contractor should record all the conditions in the register provided by MMO and report as per instruction of supervisor.</p>	
<b>C9</b>	<p><b>Replacement of Wire Brushes/Rubber sheet at roof for 1Ton/3Ton/10Ton M/C's at bldg.-6</b></p> <p>1. The contractor has to first remove the rubber sheet over the wire brush.</p> <p>2. The damaged wire brush to be removed by removing the fixing screws.</p> <p>3. The damaged wire brush piece to be replaced by the new piece and to be screwed to the frame.</p> <p>4. Wherever the rubber sheets are found damaged new rubber sheets to be replaced.</p>	<b>30 SET</b>
<b>C10</b>	<p><b>Replacement of Ni-hard Plate for 1Ton/3Ton/10Ton M/C's at bldg.-6</b></p> <p>1. Ni-hard Plate inside the blasting chamber should be replaced in case of worn-out/breakage.</p> <p>2. Old damaged/Worn-out plate shall be dismantled from the chamber with suitable care.</p> <p>3. New plate has to be place in position with suitable holding hook position.</p> <p>4. Welding requirement, if any shall be carried out by contractor.</p>	<b>40 NO</b>

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## 4) SHOT BLASTING MACHINE AMC IN Unit-II:

The details pertaining to shot blasting machines available at Bay A/Bldg. 107 /Unit II:

Sl. No	Name of the Machine	Equipment No.	Model	Capacity	Make	Bay	Bldg.
1	SKEW ROLL TUBE SHOT BLASTING MACHINE	6161-4167	2WASRT / Sl. No. BM2K778/2009	0.8 T	M/s Nesco Ltd, Mumbai	A	107
2	TUBE ROTO BLAST STATION	6161-4128	1997	0.8 T	M/s Patel Furnace & forging Pvt. Ltd, Baroda	A	107

Sl.no	SCOPE OF WORK	QTY
<b>D1</b>	<b>AMC For 0.8Ton Tube Roto Blasting At Bay-A/Bldg-107 In Unit-II:</b>  1. Replacement Of Rubber Curtains And Rubber Sheets On The Sides And Roof Of The Chambers During Damage/Worn-out. 2. Replacement/Repair Of Weld Mesh And Perforated Plates In And Outside The Blasting Chamber. 3. Cleaning, Servicing And Replacement Of Pneumatic Lines, Valve Stuck-Up, Valve Clogging, Pneumatic Air Filter, Pneumatic Cylinders And Hoses. 4. Clogging Of Shots To Be Cleared In Elevator System, Bunkers, Feed Lines, and Valves etc., Whenever Required. 5. Replacement Of Wire Brushes In The Roof Seal Assembly. 6. Repairs Like Welding, Grinding, Leveling In The Cabin Rollers To Ensure Proper Movement Of Tubes. 7. Repair Works Like Alignment In Screw Conveyor, Shots Bucket Elevator, Chain Drives And Replacement Of Damaged Components In The Above Systems. 8. Any Damage In Ducting/Hose Connection In Shots Feeding Line To Be Attended/Repaired By Gas Cutting & Welding. 9. Wheelabrator Assembly Inclusive Of Control Cage, Blades And Housing To Be Rectified/Replaced With Spares During Failures. Ensure 1 /11 'O' Clock Position (I.E. About 10degrees In The Direction Of Wheel Rotation) For Control Cage. 10. Repair/Replacement Of Ni-Hard Liner Plates Inside The Blasting Chamber In Case Of Worn-Out/Breakage. 11. Repair Works Like Felt Replacement, Welding Of Filter Mesh And Cleaning/Replacement Of Filter Mesh And Filter Bags In Dust Collection System, Replacement Of Cut V-Belts In Blower/Wheelabrator Drive To Be Attended. 12. Lubrication Of All Mechanical/Moving Parts/Drives System With Appropriate Oil, Grease, Etc.	<b>12 Set</b>

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## General Terms and Conditions

- 1) Safety precautions have to be ensured by the Contractor Depending on the work nature. 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.
- 2) PPES shall for appropriate trade job has to be ensured by the contractor at the job site at all times.
- 3) 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
- 4) Attendance register should be maintained.
- 5) Rate should be quoted as per price bid.**
- 6) Contractor must get acquaintance with quantum of day to day work either visiting BHEL Trichy premises or email us before quoting.
- 7) Period of Contract is One Year from the date of commencement of work.
- 8) EMD /SD shall also be paid to BHEL through e-collect feature offered by SBI.**

### BHEL SCOPE:

1. All the spares and consumables like kerosene, Gas, welding rod, cotton waste, grease etc. for repair work will be provided by BHEL free of cost.
2. Welding and gas cutting equipment's needed for the maintenance work will be provided free of cost.

### CONTRACTOR SCOPE:

1. Contractor Should Bring All The Tools And Tackles Required For All Above Works.
2. All The Wastes And Debris Generated During The Above Work Has To Be Disposed By The Contractor At Identified Disposal Points By Using Contractors Own Movement Vehicle.
3. Work Permit Should Suitably Be Obtained By The Contractor For Working At Elevated Places.
4. Contractor should provide suitable manpower to carry out all the works in stipulated period.
5. Contractor should allocate a supervisor for monitoring all the activities and he may contact the MMO supervisor for any assistance if required. He has to maintain the work log register as per BHEL format.
6. Contractor has to send technically qualified FITTER & WELDER persons to carry out the special works like Welding AND MACHINE MAINTENENCE.

**IMPORTANT NOTE:** IF THE CONTRACTOR PERFORMANCE NOT ABLE TO FULFILL AS PER ENQUIRY REQUIREMENT, THEN THE CONTRACT SHALL BE SHORT CLOSED AT ANY TIME.

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

- 1) The workmen of contractor should be covered under PF/ESI, etc., as per labour laws.
- 2) Safety precautions have to be ensured by the Contractor Depending on the work nature. 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.
- 3) PPES for appropriate trade job has to be ensured by the contractor at the job site at all times.
- 4) The contractors may visit the area to assess the quantum of work before quoting.
- 5) The contractor should mention the point to point confirmation.
- 6) Contractor should commit for Terms and Conditions of the enquiry otherwise the offer shall be liable for rejection.
- 7) **TWO PART BID SYSTEM:** Contractor should send their offer for two part bid system as below
- 8) Documents submitted with the offer shall be signed and stamped in each page by authorized representative of the bidder.

### **TENDERING CONDITIONS:**

- a) The Bidders shall submit the offer in TWO PART BID SYSTEM (Part -I & II) as indicated below which shall be sealed in ONE OUTER ENVELOPE.
- b) 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.
- c) 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.
- d) Both the envelopes (Part I & II) 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.
- e) The offer should reach this office on or before the due date by 14.00 Hrs. (IST). Late offers will not be considered.

Sign & Seal of Contractor

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- f) Tender should not be addressed to any Individual's name but only by designation to:

THE SENIOR MANAGER  
MAINTENANCE & SERVICES / CONTRACTS,  
2&4 BUILDING,  
BHARAT HEAVY ELECTRICALS LIMITED,  
HIGH PRESSURE BOILER PLANT,  
TIRUCHIRAPALLI - 620 014.  
TAMIL NADU, INDIA.

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

## **OPENING OF TENDERS:**

- a) The Part I - Technical & un-priced commercial bid alone would be opened on the Tender opening date(as mentioned in the enquiry) by 14.30Hrs(IST)
- b) 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.
- c) Clarifications if any required by BHEL for Technical evaluation would be sought from Bidders before opening of Part II - price bid.
- 9) The contractor should quote the exact time required to complete the work in their offer.
- 10) BHEL reserves the right to reject any or all the tenders either in full or a part thereof at their discretion without assigning any reasons thereof.
- 11) The contractor may visit BHEL to assess the quantum of work before submitting their offer.

## **12) SERVICE TAX :**

- 1) A copy of Service tax remittance challan for previous quarter should be submitted along with offer if the contractor is claiming service tax.
- 2) If Contractor is exempted from service tax then a declaration that they are within the threshold limit should be submitted along with the offer.

## **13) LD 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 for each week of delay or part thereof subject to a maximum of 10% of the total contract value.

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

- 1) 100% payment will be made after satisfactory completion of work on pro –rata basis.
- 2) Attendance register should be maintained.
- 3) EMD is to be submitted along with offer and is to be remitted in cash (as permissible under Income Tax Act) or Pay order or Demand Draft only in favour of M/S BHEL Trichy.
- 4) Security Deposit shall be furnished by the successful vendor to the total contract value before starting the work. The rate of Security Deposit will be as below:
  - a) Up to Rs.10 Lakhs - 10% of the contract value .
  - b) Above Rs.10 Lakhs and Up to Rs.50 Lakhs – Rs.1 lakh + 7.5% of the contract value exceeding Rs.10 lakhs.
  - c) EMD of the successful vendor can be converted and adjusted against the security deposit.
- 5) An additional payment as per circular ref. BHE/HR/W/EW/08.04.2014 is to be paid to the contract workmen as below, over and above the minimum wages prescribed by the government of Tamilnadu:

Unskilled	-	Rs.3,200/-
Semiskilled	-	Rs.3,700/-
Skilled	-	Rs.4,100/-
- 6) Bonus @ 8.33 % to workmen to be paid.
- 7) Taxes if any will be mentioned separately in the offer.
- 8) The rate that is offered should be comprehensive and no separate charges will be made towards expenses like travel, boarding and lodging.
- 9) The contractor should quote the validity of the offer.
- 10) If two or more vendors offer the same rate, negotiation will be conducted separately.

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Sign & Seal of Contractor

## 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:

(Signature)

Name:

Membership number:

Seal of Chartered Accountant

## SCHEDULE FOR PRICE BID

Sub: **SHOT BLASTING MACHINE AMC IN BLDG-1, BLDG-5, BLDG-6 & UNIT-II – Reg.**

Ref: Enquiry no: 9241600145 Dated 03/09/2016. Due date: 28/09/2016, 14.00 Hrs.

### **1) SHOT BLASTING MACHINE AMC IN BLDG-1:**

Sl. No	Description	Qty	UOM	Rate	Value
A1	Dust collector-Filters Cleaning for 25Ton machine at bay-12 /bldg-1	12	SET		
A2	Repair works in Screw Conveyor for 25Ton machine at bay-12 /bldg-1	10	NO		
A3	Replacement / repair of weld mesh for 25Ton machine at bay-12 /bldg-1	18	M2		
A4	Repair works in Soundabarator for 25Ton machine at bay-12 /bldg-1	18	NO		
A5	Repair works in Wheelabarator for 25Ton machine at bay-12 /bldg-1	18	NO		
A6	Welding / Patch work on the structural for 25Ton machine at bay-12 /bldg-1	60	FT2		
A7	Replacement of gear box drive Chains for 25Ton machine at bay-12 /bldg-1	10	NO		
A8	Replacement of new buckets in elevator for 25Ton machine at bay-12 /bldg-1	18	NO		
A9	Repair works in cable track for 25Ton machine at bay-12 /bldg-1	10	M		
A10	Weekly general checkup for 25Ton machine at bay-12 /bldg-1	50	NO		
A11	Repair works in 8" & 12" pipeline for 25Ton machine at bay-12 /bldg-1	24	M		
A12	Replacement of Ni-hard Plate for 25Ton machine at bay-12 /bldg-1	40	NO		
A13	Replacement of Rubber curtains for 25Ton machine at bay-12 /bldg-1	80	NO		
A14	Replacement of Wire Brushes at roof for 25Ton machine at bay-12 /bldg-1	20	NO		
<b>TOTAL VALUE</b>					

**(\* Cumulative L1 will be considered for above all (For item's (A1 to A14), sl.no-1)**

### **2) SHOT BLASTING MACHINE AMC IN BLDG-5:**

Sl. No	Description	Qty	UOM	Rate	Value
B1	Shot Blasting Machine Mtec. Bldg 5 for 3Ton machine at outeryard/Bldg-5	12	CY		

**(\* L1 will be considered separately for item (B1), sl.no-2.**

### 3) SHOT BLASTING MACHINE AMC IN BLDG-6:

Sl. No	Description	Qty	UOM	Rate	Value
C1	Dust collector-Filters Cleaning for 1Ton/3Ton/10Ton at bldg.-6	8	SET		
C2	Repair works in Cross Screw Conveyor for 1Ton/3Ton/10Ton at bldg.-6	12	NO		
C3	Repair works in Longitudinal Screw Conveyor for 1Ton/3Ton/10Ton at bldg.-6	10	NO		
C4	Repair works in Bucket Elevator for 1Ton/3Ton/10Ton at bldg.-6	12	NO		
C5	Repair works in Blast Wheel for 1Ton/3Ton/10Ton at bldg.-6	20	NO		
C6	Welding / Patch-up work on the structural for 1Ton/3Ton/10Ton at bldg.-6	30	NO		
C7	Replacement/servicing of Chains and sprockets in Bucket Elevator, Screw conveyors and Job rotation arrangement for 1Ton/3Ton/10Ton at bldg.-6	12	NO		
C8	Weekly general checkup of the machine for 1Ton/3Ton/10Ton at bldg.-6	52	NO		
C9	Replacement of Steel Bristle Brushes at roof for 1Ton/3Ton/10Ton at bldg.-6	30	SET		
C10	Replacement of Ni-Cr plates for 1Ton/3Ton/10Ton at bldg.-6	40	NO		
<b>TOTAL VALUE</b>					

(\* ) Cumulative L1 will be considered for above all (For item's (C1 to C10), sl.no-3).

### 4) SHOT BLASTING MACHINE AMC IN UNIT-II:

Sl. No	Description	Qty	UOM	Rate	Value
D1	AMC For 0.8Ton Tube Roto Blasting At Bay-A/Bldg-107 In Unit-II	12	SET		

(\* ) L1 will be considered separately for item (D1), sl.no-4.

❖ Taxes if any should be quoted extra.

- 1) Payment terms: Payment will be made after completion of work on pro rata basis on submission of invoice in triplicate duly certified by Engineer in Charge.
- 2) Tax deduction will be made from the every bill at the prevailing rate as per the Government rule and regulation from time to time.
- 3) Detailed scope of work and other terms and conditions are specified in the Technical Bid of the Tender.

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