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BHARAT HEAVY ELECTRICALS LIMITED

High Pressure Boiler Plant, Tiruchirappalli- 620014

Maintenance & Services Dept. (FB)

• ☎: (0431) 257-8119 Fax: (0431) 257-6805

e-mail: danasekar@bhel.in

Enq. No: **9241900043**

26.06.2019

NOTICE INVITING TENDER

Dear Sir/ Madam,

Subject: Two Part Tender Inviting Techno-commercial and Price Bids for **AMC for shot blasting machine in press shop and thermo press shop**. 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	AMC for shot blasting machine in press shop and thermo press shop.
02.	Earnest Money Deposit (EMD)	₹ 5,614.00/-
03.	Duration of the contract	1 Year (From the date of commencement of the work)
04.	Enquiry No. & Date	9241900043, dt. 26.06.2019
05.	Last Date for Receipt of Tender	14.00 Hrs. on 17.07.2019
06.	Date of Technical Bid Opening	14.30 Hrs. on 17.07.2019
07.	Date of Price Bid Opening	Will be intimated to those who are Qualified separately.
08.	Guarantee Period	Not applicable

1. The Tender documents can be downloaded from BHEL website (http://www.bhel.com/tender/tender_home.php) free of cost.

2. Tender document contains **19 Pages** (Technical & Commercial Bid – 14 pages, Schedule for Price Bid 02 pages, Sample format for CA certificate – 01 page).

3. The duly filled Tender should be addressed to:
**THE DEPUTY MANAGER,
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**.

1) EMD cover shall contain EMD of **₹ 5,614.00/-** 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.

2) Bidders registered as **MSE (UAN) / 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.

3) Tenders without EMD/ MSE/ NSIC/ SSI/ EM-II proof as above will be summarily rejected and the Technical



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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 Deputy Manager/ Contracts/ M&S, BHEL, Trichy.
- 15) The complete Technical bid and price bid along with requisite **EMD of ₹5,614.00/-** shall reach the office of the undersigned on or before **17.07.2019** 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: **AMC for shot blasting machine in press shop and thermos press shop.**

Ref: Enquiry no: 9241900043: dt. 26.06.2019; Due dt: **17.07.2019**, 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. Bidder to confirm.	
2	Previous Work order copy of the above said work to be submitted along with offer for verification. Otherwise offer is liable for rejection. Experience proof from other than BHEL 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) - (ii) PAN Number (Copy to be Enclosed) - (iii) GST registration Number (Copy to be Enclosed) - (iv) Mobile number (Which is linked to GST registration Number) - (v) Email id (Which is linked to GST registration Number) - (vi) HSN/SAC Code - 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: AMC for shot blasting machine in press shop and thermos press shop.

Ref: Enquiry no: 9241900043; dt. 26.06.2019; Due dt. **17.07.2019**, 14.00 Hrs

Sl.No	SCOPE OF WORK	Qty
10	AMC FOR BMD 50 THERMO PRESS SHOP	
10/10	Dust collector-Filters Cleaning	2 SET
	<p>1. Dismantle all the covers over the dust collecting chamber.</p> <p>2. Dismantle all the 160 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.</p> <p>3. This dismantling and replacing of 160 no of filters to be completed in one day.</p> <p>4. Then transport the clogged filters to identified cleaning area and clean all the 160 Nos. of filters.</p> <p>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.</p> <p>Unit Of Measurement (UOM):- For cleaning and replacement of 1 set (160 Nos.) of filters.</p>	
10/20	Repair works in Screw Conveyor-long	1 NO
	<p>The contractor has to do the following works:</p> <ol style="list-style-type: none"> 1. Dismantle the coupling/chain & 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. <p>UOM :- For repairing 1 piece of Screw conveyor (around 3m length)</p>	
10/30	Replacement / repair of weld mesh	4 M2
	<p>Replacement of weld mesh and perforated plates inside the blasting chamber:</p> <ol style="list-style-type: none"> 1) The damaged weld mesh/perforated plates inside the blasting chamber are to be removed by gas cutting. 	

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	<p>2) The new weld mesh/perforated plates are to be positioned perfectly and welded in corners for retaining.</p> <p>3) The damaged weld mesh/ perforated plates to be scraped and put inside the identified scrap bin, as instructed by the MMO supervisor.</p> <p>UOM :- For replacement of 1 sq. metre of weld mesh.</p>	
10/40	<p>Repair works in Soundabarator</p>	3 NO
	<p>1. The soundabarator unit to be dismantled from the machine by removing the bolt and nut assembly.</p> <p>2. The pneumatic cylinder should be disconnected from the line for servicing.</p> <p>3. The pneumatic cylinders to be serviced and should be made to move freely.</p> <p>4. If the C cup in the soundabarator is found worn out, it should be repaired and reassembled.</p> <p>5. The soundabarator unit and pneumatic cylinder should be assembled back and to be checked for smooth functioning.</p> <p>6. If the pneumatic line was found damaged, it should be replaced with a new hose.</p> <p>UOM :-For repair of 1 Soundabarator unit.</p>	
10/50	<p>Repair works in Wheelabarator</p>	3 NO
	<p>1. The end covers of the wheelabarator unit should be removed.</p> <p>2. The control cage and the side plates are to be removed.</p> <p>3. The impeller unit should be removed wherever required.</p> <p>3. Any worn out parts are to be replaced with new ones.</p> <p>4. The blades are to be replaced, wherever required.</p> <p>5. The wheelabarator unit should be assembled back in the machine and checked for smooth operations.</p> <p>6. The control cage should be assembled back as per the MMO supervisors instructions.</p> <p>UOM :-For repair of 1 wheelabarator unit.</p>	
10/60	<p>Welding / Patch work on the structural</p>	18 M2
	<p>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 in the shell plates.</p> <p>2.Wherever required liner plates to be removed and refitted for welding inside the chamber.</p> <p>UOM: 1 Meter Sq. Welding / Patch-up work</p>	
10/70	<p>Replacement of gear box drive Chains</p>	2 NO
	<p>Replacement / servicing of Chains and sprockets:</p> <p>1. Wherever link damage was found in the chain, new Link to be replaced.</p> <p>2. The Chain has to be serviced by cleaning and greasing.</p> <p>3. Worn out sprockets to be replaced by new one.</p> <p>4. Wherever required dismantling and re-assembling of gear box to be carried out.</p> <p>5. The coupling bolts replacing/tightening work to be done.</p> <p>6. All the above points are applicable to the Chain drives at bottom screw conveying system and top of Elevator.</p>	

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	UOM :- For servicing & mounting One No. of Chain drive.	
10/80	Replacement of new buckets in elevator	10 NO
	<p>1) The contractor has to remove the damaged buckets in the bucket elevator by removing the bolts.</p> <p>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.</p> <p>3) After replacing the buckets the elevator belts are to be properly tightened.</p> <p>UOM : Replacing one bucket.</p>	
10/90	Weekly general checkup of the machine	50 NO
	<p>The following works are to be carried out on all sundays through-out the year except closed holidays:</p> <p>Check for alignment and looseness of all drive chains in the screw conveyer 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.</p> <p>Check all the drive belts of the wheelabrators 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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>Run the screw conveyors once and check for any abnormal sound or jerk, punctures in the conveyer covers, while running. The same should be reported to the MMO supervisor.</p> <p>The condition of weld mesh and perforated plates inside the blasting chamber should be checked and shall be reported to MMO supervisor.</p> <p>Check the condition of the impeller blades in all the wheelabrator units (3 Nos) and dust collector blower 1 no (any abnormal noise) inform the MMO supervisor for corrective action.</p> <p>Contractor should record all the conditions in the register provided by MMO and report as per instruction of supervisor.</p> <p>UOM :-For One No. of Weekly general checkup.</p>	
10/100	Replacement of new pipelines	4 M
	Replacement of new pipe lines: Size 60mm around	

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	<p>1) Dismantle the Existing Pipe line by removing the bolts in the end flanges or by gas cutting.</p> <p>2) End flanges/ bends are to be fabricated and welded to the new pipeline.</p> <p>3) Reassemble the new pipe line and tight the flange bolts.</p> <p>4) Wherever the flange gaskets are found damaged, it should be replaced by new one.</p> <p>UOM : For 1 Mtr. length of straight pipeline/one bend pipe.</p>	
10/110	Repair/Replacement of hoses	4 M
	<p>Repair/Replacement of hoses: Size 60mm around</p> <p>1) Dismantle the Existing hose by removing the bolts/hose clips in the end flanges or by gas cutting.</p> <p>2) End flanges/ bends/hose clips are to be fabricated and welded to the new hose.</p> <p>3) Reassemble the new hose and tight the flange bolts.</p> <p>4) Wherever the flange gaskets are found damaged, it should be replaced by new one.</p> <p>UOM : For 1 Mtr. length of straight hose/one bend hose.</p>	
10/120	Replacement of Rubber curtains-long	10 NO
	<p>1) The bend/damaged rubber curtains are to be removed.</p> <p>2) The new curtains should be fixed in place of the old curtains by bolts with drilling holes.</p> <p>UOM : Replacing 1 No rubber curtains. Size around 4mx1m - 1 No</p>	
10/130	Repair works in chain conveyor	5 M
	<p>Repairs like straightening/replacing the chain conveyors in the mono rail by welding ,grinding, leveling to ensure proper movement of moving chain conveyors.</p> <p>UOM :-For repair/replacement of 1 metre length of chain conveyors.</p>	
10/140	Replacement of Ni-hard Plate	5 NO
	<p>1) Ni-hard Plate inside the blasting chamber should be replaced in case of worn-out/breakage.</p> <p>2) The hook arrangement to be welded to the new plate and then the plate should be hanged in the chamber.</p> <p>UOM : Replacing/repair of one Ni-hard plate.</p>	
10/150	Servicing/Repair works in dust collector	1 NO
	<p>1. Properly clean the blowers before and after work.</p> <p>2. Servicing/Repair works in dust collector blowers involves dismantling/fixing of pillow/Plummer blocks, bearings, shaft, impeller/fan blade, pulley belt and cover as a complete one.</p> <p>3. If needed welding, gas cutting, grinding, lubrication & leveling to ensure proper/smooth rotation of blowers.</p> <p>UOM :-For 1 no Servicing/Repair works in dust collector blowers.</p> <p>NOTE:</p> <p>1.Item 10 to 160 are inter related activities that has to be carried out on a BMD shot blasting machines located at THERMO PRESS SHOP.</p>	

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	2.The contractor shall report to the MMO supervisor immediately to attend the activities 20,40,50,70 and 130 if he finds any abnormalities in weekly general checkup.	
20	AMC FOR MEC SHOT PRESS SHOP	
20/10	Dust collector-Filters Cleaning	4 SET
	<p>1. Dismantle all the covers over the dust collecting chamber.</p> <p>2. Dismantle all the 72 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.</p> <p>3.This dismantling and replacing of 72 no of filters to be completed in one day.</p> <p>4.Then transport the clogged filters to identified cleaning area and clean all the 72 Nos. of filters.</p> <p>5.Ater 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.</p> <p>UOM:- For cleaning and replacement of 1 set (72 Nos.) of filters.</p>	
20/20	Repair works in Screw Conveyor-long	2 NO
	<p>The contractor has to do the following works:</p> <p>1. Dismantle the coupling/chain & sprocket assembly from the screw conveyor end.</p> <p>2. Remove the shots and dismantle the Screw conveyor cover and do the repair work for the damaged portions in it.</p> <p>3. Remove and shift the damaged screw conveyor piece from the bunker to the top level and dismantle the connecting shaft and bolts.</p> <p>4. Remove the worn out shaft and bushes and replace by new one.</p> <p>5. Carry out the repair works in the screw conveyor blades.</p> <p>6. Replace the end bearing wherever required.</p> <p>7. Assemble the entire parts dismantled after repairing and ensure smooth running.</p> <p>8. Removing the shots from the screw conveyor and clear the shots from the floor are the scope of contractor.</p> <p>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.</p> <p>UOM :- For repairing 1 piece of Screw conveyor (around 6m length)</p>	
20/30	Repair works in Screw Conveyor-top	1 NO
	<p>The contractor has to do the following works:</p> <p>1. Dismantle the coupling/chain & sprocket assembly from the screw conveyor end.</p> <p>2. Remove the shots and dismantle the Screw conveyor cover and do the repair work for the damaged portions in it.</p>	

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	<p>3. Remove and shift the damaged screw conveyor piece from the bunker to the top level and dismantle the connecting shaft and bolts.</p> <p>4. Remove the worn out shaft and bushes and replace by new one.</p> <p>5. Carry out the repair works in the screw conveyor blades.</p> <p>6. Replace the end bearing wherever required.</p> <p>7. Assemble the entire parts dismantled after repairing and ensure smooth running.</p> <p>8. Removing the shots from the screw conveyor and clear the shots from the floor are the scope of contractor.</p> <p>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.</p> <p>UOM :- For repairing 1 piece of Screw conveyor (around 1.2m length)</p>	
20/40	Repair works in Screw Conveyor-bottom	1 NO
	<p>The contractor has to do the following works:</p> <p>1. Dismantle the coupling/chain & sprocket assembly from the screw conveyor end.</p> <p>2. Remove the shots and dismantle the Screw conveyor cover and do the repair work for the damaged portions in it.</p> <p>3. Remove and shift the damaged screw conveyor piece from the bunker to the top level and dismantle the connecting shaft and bolts.</p> <p>4. Remove the worn out shaft and bushes and replace by new one.</p> <p>5. Carry out the repair works in the screw conveyor blades.</p> <p>6. Replace the end bearing wherever required.</p> <p>7. Assemble the entire parts dismantled after repairing and ensure smooth running.</p> <p>8. Removing the shots from the screw conveyor and clear the shots from the floor are the scope of contractor.</p> <p>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.</p> <p>UOM :- For repairing 1 piece of Screw conveyor (around 4m length)</p>	
20/50	Replacement / repair of weld mesh	12 M2
	<p>Replacement of weld mesh and perforated plates inside the blasting chamber:</p> <p>1) The damaged weld mesh/perforated plates inside the blasting chamber are to be removed by gas cutting.</p> <p>2) The new weld mesh/perforated plates are to be positioned perfectly and welded in corners for retaining.</p> <p>3) The damaged weld mesh/ perforated plates to be scraped and put inside the identified scrap bin, as instructed by the MMO supervisor.</p> <p>UOM :- For replacement of 1 sq. metre of weld mesh.</p>	
20/60	Repair works in Soundabarator	5 NO
	<p>1. The soundabarator unit to be dismantled from the machine by removing the bolt and nut assembly.</p>	

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	<p>2. The pneumatic cylinder should be disconnected from the line for servicing.</p> <p>3. The pneumatic cylinders to be serviced and should be made to move freely.</p> <p>4. If the C cup in the soundabarator is found worn out, it should be repaired and reassembled.</p> <p>5. The soundabarator unit and pneumatic cylinder should be assembled back and to be checked for smooth functioning.</p> <p>6. If the pneumatic line was found damaged, it should be replaced with a new hose.</p> <p>UOM :-For repair of 1 soundabarator unit.</p>	
20/70	Repair works in Wheelabarator	5 NO
	<p>1. The end covers of the wheelabarator unit should be removed.</p> <p>2. The control cage and the side plates are to be removed.</p> <p>3. The impeller unit should be removed wherever required.</p> <p>3. Any worn out parts are to be replaced with new ones.</p> <p>4. The blades are to be replaced, wherever required.</p> <p>5. The wheelabarator unit should be assembled back in the machine and checked for smooth operations.</p> <p>6. The control cage should be assembled back as per the MMO supervisors instructions.</p> <p>UOM :-For repair of 1 wheelabarator unit.</p>	
20/80	Welding / Patch work on the structural	50 M2
	<p>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 in the shell plates.</p> <p>2.Wherever required liner plates to be removed and refitted for welding inside the chamber.</p> <p>UOM: 1 Meter Sq. Welding / Patch-up work</p>	
20/90	Replacement of gear box drive Chains	5 NO
	<p>Replacement / servicing of Chains and sprockets:</p> <p>1. Wherever link damage was found in the chain, new Link to be replaced.</p> <p>2. The Chain has to be serviced by cleaning and greasing.</p> <p>3. Worn out sprockets to be replaced by new one.</p> <p>4. Wherever required dismantling and re-assembling of gear box to be carried out.</p> <p>5. The coupling bolts replacing/tightening work to be done.</p> <p>6. All the above points are applicable to the Chain drives at bottom screw conveying system and top of Elevator.</p> <p>UOM :-For servicing & mounting One No. of Chain drive.</p>	
20/100	Replacement of new buckets in elevator	10 NO
	<p>1) The contractor has to remove the damaged buckets in the bucket elevator by removing the bolts.</p>	

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• ☎: (0431) 257-8119 Fax: (0431) 257-6805

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

	<p>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.</p> <p>3) After replacing the buckets the elevator belts are to be properly tightened.</p> <p>UOM : Replacing one bucket.</p>	
20/110	Weekly general checkup of the machine	50 NO
	<p>The following works are to be carried out on all Sundays through-out the year except closed holidays:</p> <p>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.</p> <p>Check all the drive belts of the wheelabrators 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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>The condition of weld mesh and perforated plates inside the blasting chamber should be checked and shall be reported to MMO supervisor.</p> <p>Check the condition of the impeller blades in all the wheelabrator units (10 Nos) and dust collector blower (any abnormal noise) inform the MMO supervisor for corrective action.</p> <p>Contractor should record all the conditions in the register provided by MMO and report as per instruction of supervisor.</p> <p>UOM:-For One No. of Weekly general checkup.</p>	
20/120	Replacement of new pipelines	5 M
	<p>Replacement of new pipe lines: Size 60mm around</p> <p>1) Dismantle the Existing Pipe line by removing the bolts in the end flanges or by gas cutting.</p> <p>2) End flanges/ bends are to be fabricated and welded to the new pipeline.</p> <p>3) Reassemble the new pipe line and tight the flange bolts.</p>	

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	4) Wherever the flange gaskets are found damaged, it should be replaced by new one. UOM : For 1 Mtr. length of straight pipeline/one bend pipe.	
20/130	Repair/Replacement of hoses	5 M
	Repair/Replacement of hoses: Size 60mm around 1) Dismantle the Existing hose by removing the bolts/clips in the end flanges or by gas cutting. 2) End flanges/ bends/clips are to be fabricated and welded to the new hose. 3) Reassemble the new hose and tight the flange bolts. 4) Wherever the flange gaskets are found damaged, it should be replaced by new one. UOM : For 1 Mtr. length of straight hose/one bend hose.	
20/140	Replacement of Rubber curtains-long	40 SET
	1) The bend/damaged rubber curtains are to be removed. 2) The new curtains should be fixed in place of the old curtains by bolts with drilling holes. UOM : Replacing 10 No rubber curtains = 1 set. Size around 1mx150mm -1 no	
20/150	Replacement of Rubber curtains-top	8 SET
	1) The bend/damaged rubber curtains are to be removed. 2) The new curtains should be fixed in place of the old curtains by bolts with drilling holes. UOM : Replacing 10 No rubber curtains = 1 set. Size around 150mmx1m -1 no	
20/160	Replacement of Wire Brushes at roof	5 NO
	1) The contractor 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.	
20/170	Replacement of Ni-hard Plate	100 NO
	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. UOM : Replacing/repair of one Ni-hard plate.	
20/180	Repair works in dust colt bottom valve	1 NO
	1. Properly clean the valves before and after work. 2. Servicing/Repair works in dust collector valves involves removal, repair & servicing, fixing of rotary valves. If needed new valves to be fixed. 3. If needed welding, gas cutting, grinding, lubrication to ensure proper/smooth working of valves. UOM :-For 1 no Servicing/Repair works in dust collector valves	

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20/190	Servicing/Repair works in dust collector	1	NO
	<p>1. Properly clean the blowers before and after work.</p> <p>2. Servicing/Repair works in dust collector blowers involves dismantling/fixing of pillow/Plummer blocks, bearings, shaft, impeller/fan blade, pulley belt and cover as a complete one.</p> <p>3. If needed welding, gas cutting, grinding, lubrication & leveling to ensure proper/smooth rotation of blowers.</p> <p>UOM :-For 1 no Servicing/Repair works in dust collector blowers</p>		
20/200	Repair works in dust collector conveyer	1	NO
	<p>1. Properly clean the conveyor before and after work.</p> <p>2. Servicing/Repair works in dust collector conveyor involves dismantling/fixing of conveyor belt, pillow/Plummer blocks, bearings, shaft, pulley belt, cover, drive gear box, rollers removal, repair & servicing.</p> <p>3. If needed welding, gas cutting, grinding, lubrication & leveling to ensure proper/smooth rotation of conveyor.</p> <p>UOM :-For 1 no Servicing/Repair works in dust collector conveyor.</p>		
	<p>BHEL SCOPE:</p> <p>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.</p> <p>2.Welding and gas cutting equipments needed for the maintenance work will be provided free of cost.</p> <p>CONTRACTOR SCOPE:</p> <p>1.Contractor should provide suitable manpower to carry out all the works in stipulated period.</p> <p>2.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.</p> <p>3.Contractor should bring all the required hand tools for repair work.</p> <p>TOTAL PERIOD OF CONTRACT: ONE YEAR</p> <p>NOTE:1. Item 10 to 200 are inter related activities that has to be carried out on a MEC shot blasting machines located at PRESS SHOP.</p> <p>2.The contractor shall report to the MMO supervisor immediately to attend the activities 20,40,50,70 and 130 if he finds any abnormalities in weekly general checkup.</p>		

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) SAFETY:

a) 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.

b) PPES for appropriate trade job has to be ensured by the contractor at the job site at all times.

c) 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.

d) 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 are advised to 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:

a) 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.

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) 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.

e) 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.

f) The offer should reach this office on or before the due date by 14.00 Hrs. (IST). Late offers will not be considered.

g) 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.

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

4) OPENING OF TENDERS:

a) The Part I - Technical & un-priced commercial bid and EMD Cover alone would be opened on the Tender

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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.

6. GST:

a) Response to Tenders for Contractor will be entertained only if the vendor has a valid GST registration no which should be clearly mentioned in the offer. If any specific exemption is available, a declaration with due supporting documents need to be furnished for considering the offer.

b) Contractor shall mention their GSTN in all their invoices 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), item description as per PO, Quantity, Rate, Value, applicable taxes with nomenclature (like IGST, SGST, CGST & UTGST) separately, HSN/ SAC Code, etc.

c) All invoices shall bear the HSN Code (Harmonized System of Nomenclature)/ SAC (Services Accounting Code).

7. 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.

8. 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.

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

10. 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'.

11. 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.

13. 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.

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COMMERCIAL TERMS AND CONDITIONS FOR M&S MECHANICAL CONTRACTS

- 1) 100% payment will be made after completion of entire work 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?corpID=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.
- 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 case of more than one L1 bidders, BHEL shall ask revised reduced price bids from all such L1 bidders & ranking will be decided based on these revised bids. The new rates quoted should be lower than their previous L1 rates. If L1 could not be decided by this process, ranking will be decided by draw of lots in the presence of all such L1 bidders.

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SCHEDULE FOR PRICE BID

NAME OF WORK: AMC for shot blasting machine in press shop and thermos press shop.

Ref: Enquiry no: 9241900043; dt. 26.06.2019; Due dt. **17.07.2019**, 14.00 Hrs

Sl. No	SCOPE OF WORK	Qty.	UoM	RATE/ Unit	VALUE
10	AMC FOR BMD 50 THERMOPRESS SHOP				
10/10	Dust collector-Filters Cleaning	2	SET		-NA-
10/20	Repair works in Screw Conveyor-long	1	NO		-NA-
10/30	Replacement / repair of weld mesh	4	M2		-NA-
10/40	Repair works in Soundabarator	3	NO		-NA-
10/50	Repair works in Wheelabarator	3	NO		-NA-
10/60	Welding / Patch work on the structurals	18	M2		-NA-
10/70	Replacement of gear box drive Chains	2	NO		-NA-
10/80	Replacement of new buckets in elevator	10	NO		-NA-
10/90	Weekly general checkup of the machine	50	NO		-NA-
10/100	Replacement of new pipelines	4	M		-NA-
10/110	Repair/Replacement of hoses	4	M		-NA-
10/120	Replacement of Rubber curtains-long	10	NO		-NA-
10/130	Repair works in chain conveyor	5	M		-NA-
10/140	Replacement of Ni-hard Plate	5	NO		-NA-
10/150	Servicing/Repair works in dust collector	1	NO		-NA-
20	AMC FOR MEC SHOT PRESS SHOP				
20/10	Dust collector-Filters Cleaning	4	SET		-NA-
20/20	Repair works in Screw Conveyor-long	2	NO		-NA-
20/30	Repair works in Screw Conveyor-top	1	NO		-NA-
20/40	Repair works in Screw Conveyor-bottom	1	NO		-NA-
20/50	Replacement / repair of weld mesh	12	M2		-NA-
20/60	Repair works in Soundabarator	5	NO		-NA-
20/70	Repair works in Wheelabarator	5	NO		-NA-
20/80	Welding / Patch work on the structurals	50	M2		-NA-
20/90	Replacement of gear box drive Chains	5	NO		-NA-
20/100	Replacement of new buckets in elevator	10	NO		-NA-

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20/110	Weekly general checkup of the machine	50	NO		-NA-
20/120	Replacement of new pipelines	5	M		-NA-
20/130	Repair/Replacement of hoses	5	M		-NA-
20/140	Replacement of Rubber curtains-long	40	SET		-NA-
20/150	Replacement of Rubber curtains-top	8	SET		-NA-
20/160	Replacement of Wire Brushes at roof	5	NO		-NA-
20/170	Replacement of Ni-hard Plate	100	NO		-NA-
20/180	Repair works in dust collt bottom valve	1	NO		-NA-
20/190	Servicing/Repair works in dust collector	1	NO		-NA-
20/200	Repair works in dust collector conveyor	1	NO		-NA-

- ❖ The bidder shall quote Rate/ Unit only.
- ❖ Value= Qty. x Rate/Unit
- ❖ GST not to be included in the quoted rate & to be mentioned as a percentage separately.
Other taxes, if any, are inclusive.
- ❖ Item wise L1 (Item 10 & Item 20) shall be considered for finalizing Order

**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