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Organization

BHARAT HEAVY ELECTRICALS LIMITED

High Pressure Boiler Plant, Tiruchirappalli- 620014

Maintenance & Services Dept. (FB)

☎: (0431) 257-5010

e-mail: umadsankar@bhel.in

Enq. No: 9242000002

07.01.2020

NOTICE INVITING TENDER

Dear Sir/ Madam,

Subject: Two Part Tender Inviting Techno-commercial and Price Bids for **“AMC for tube roto blasting machines- 2 nos available at unit -2 & 2 nos available at bldg-50”**. 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 tube roto blasting machines- 2 nos available at unit - 2 & 2 nos available at bldg-50
02.	Earnest Money Deposit (EMD)	₹ 8458.24/-
03.	Duration of the contract	1 Year (From the date of commencement of the work)
04.	Enquiry No. & Date	9242000002, dt.07.01.2020
05.	Last Date for Receipt of Tender	14.00 Hrs. on 29.01.2020
06.	Date of Technical Bid Opening	14.30 Hrs. on 29.01.2020
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 **24 Pages** (Technical & Commercial Bid – 20 pages, Schedule for Price Bid 01 pages, Sample format for CA certificate – 01 page).
3. The duly filled Tender should be addressed to:

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

Special Instructions:

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

- 1) EMD cover shall contain EMD of ₹ 8458.24/-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 ₹ 8458.24/-** shall reach the office of the undersigned on or before **29.01.2020** at 14.00 Hrs.
- 16) The Technical bid will be opened on the same day at 14.30 hrs. In case of opening day falls on holiday or happened to be declared as a holiday the due date of receipt of offers and opening of the tender shall automatically fall on the same timing of the next working day unless intimated otherwise. Date and time of opening of the Price Bid shall be intimated only to the bidders those who have qualified after evaluation of the Technical bid. You / Your authorized representative may participate in the tender opening.

Encl:

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



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PQC & TECHNICAL BID

NAME OF WORK: **AMC For Tube Rotoblasting Machines- 2 nos available At Unit -2 & 2 Nos Available At Bldg-50**

Ref: Enquiry no: 9242000002: dt. 07.01.2020; Due dt. **29.01.2020**, 14.00 Hrs

PRE-QUALIFICATION CRITERIA

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

Sl. No	Description	Vendor to confirm
1	Only those BIDDERS/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. . 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 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 give details.	
3	(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) 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.	
4	Acceptance for Scope of Work as per the Enquiry.	
5	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”.	
6	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 Tube Rotoblasting Machines- 2 nos available At Unit -2 & 2 Nos Available At Bldg-50**

Ref: Enquiry no: 9242000002: dt. 07.01.2020; Due dt. **29.01.2020**, 14.00 Hrs

Sl.No	SCOPE OF WORK	Qty
ITEM 10	TUBE ROTOBLAST MC MAINTAINANCE AT UNIT II	
10/10	Dust collector -64 filters cleaning	6 SET
	<p>AMC FOR TUBE ROTO BLASTING MACHINES (2 NOS) MAINTENANCE AT Bay-A/Bldg-107 IN UNIT-II:</p> <p>Tracking no. 1.- 6161-4167 and 2.- 6161-4128</p> <p>Dust collector- 64 Filters Cleaning:</p> <ol style="list-style-type: none"> 1. Dismantle all the covers over the dust collecting chamber. 2. Dismantle all the 64 Nos.of filter units /filter bags and replace the filter unit /filter bags with cleaned/Spare filter units /filter bags 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 filter units /filter bags to be completed in one day . 4.Then transport the clogged filter units /filter bags to identified cleaning area and clean all the 64 Nos. of filter units /filter bags. 4.Ater cleaning the filter units /filter bags at remote place, the filter units /filter bags to be stacked near the machine. This cleaning work to be completed within one week time from the day of dismantling. <p>To Quote :-For cleaning and replacement of 64 Nos.of filter units /filter bags in 2 nos of Tube shot blasting machines /Unit-II is considered as 1 set.</p> <p>GENERAL CONDITION FOR ITEM 10 TO 150</p> <p>BHEL SCOPE:</p> <ol style="list-style-type: none"> 1.All the spares required for repairing will be given by bhel at free of cost. 2.All consumables required for maintenance like grease, kerosene, cotton waste, welding electrodes, oxygen, acetylene, compressed air, power will be provided by bhel at free of cost. 3.Welding equipment & accessories for the above work will be provided by bhel at free of cost. 4.Required grade of oil and grease for lubrication will be provided by bhel at free of cost. <p>CONTRACTOR SCOPE:</p> <ol style="list-style-type: none"> 1.Contractor should bring all the tools and tackles required for all above 	

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	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.	
20/10	Screw conveyor maintenance	8 NO
	<p>Repair works in Screw Conveyor: The contractor has to do the following works:</p> <ol style="list-style-type: none"> 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. <p>To Quote :- For repairing 1 piece of Screw conveyor (around 1.7m length)</p>	
30/10	Replacement or repair of weld mesh & per	6 M2
	<p>Replacement /repair 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. 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. <p>To Quote :- For replacement of 1 sq. metre of weld mesh /perforated plate.</p>	
40/10	Soundabarator servicing	14 NO
	<p>Repair works in Soundabarator:</p> <ol style="list-style-type: none"> 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. 	

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	<p>4. The soundabarator unit and pneumatic cylinder should be assembled back and to be checked for smooth functioning.</p> <p>5. If the pneumatic line was found damaged, it should be replaced with a new hose.</p> <p>To Quote :-For repair of 1 soundabarator unit.</p>	
50/10	Wheelabrator servicing	9 NO
	<p>Repair works in Wheelabrator:</p> <ol style="list-style-type: none"> 1. The end covers of the wheelabrator 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 wheelabrator 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 supervisors instructions. <p>To Quote :-For repair of 1 wheelabrator unit.</p>	
60/10	Patch welding on the outside of blasting	10 FT2
	<p>Welding/Patch-up work on the structurals & outside blast chamber:</p> <p>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>Wherever required liner plates to be removed and refitted for welding inside the chamber.</p> <p>To Quote :- For Patch-up work of 1 Sq. feet.</p>	
70/10	Sprocket chain maintenance	25 NO
	<p>Replacement / servicing of Chains and sprockets in transmission and drive systems:</p> <ol style="list-style-type: none"> 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 in the drive system . 5. The coupling bolts replacing/tightening work to be done. 6. All the above points are applicable to the Chain drives at in feed roller conveyors,out feed conveyors, bottom screw conveying system, Bucket Elevator and kicker systems. <p>To Quote:-For servicing & mounting One No. of sprocket and chain mechanism.</p>	

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80/10	Bucket elevator servicing	8 NO
	<p>Repair work in Bucket elevator.</p> <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>4) The tightness of the bucket elevator belt and the alignment of the the bucket roller drums to be ensured for smooth functioning of the bucket elevator.</p> <p>5) The loading of the shots by the bucket elevator from the bottom of the blasting chamber and unloading of the shots at the top hopper to be synchronised to avoid overloading and tripping of bucket elevator drive.</p> <p>To quote: Repair work for servicing of the bucket elevator mechanism for smooth fuctioning is considered as 1 unit.</p>	
90/10	Rollers - Conveyor system servicing	30 NO
	<p>Repair works in Rollers -In feed /Out feed /Cabin :</p> <p>1. The damaged roller to be dismantled from the machine by removing the bolt and nut assembly after dismantling of the drive sprocket chain /belt mechanism.</p> <p>2. Servicing of the removed roller</p> <p>3. Replacement of serviced roller or new roller and fixing of the mounting bolts and drive mechanism</p> <p>4. Alignment and levelling of the roller along with the exsiting conveyor line to ensure smooth rolling of tubes during shot blasting.</p> <p>To Quote :-For repair of 1 roller is considered as 1 unit.</p>	
100/10	Rubber belts repalcement -Roller conveyo	40 NO
	<p>Rubber belts replacement - Roller conveyor</p> <p>1.The damaged drive rubber belts (round belts) to be removed</p> <p>2.Replacement of new rubber belts</p> <p>3.The dismantling of connecting flange along the drive shaft line if required for fixing new rubber belt to be taken care</p> <p>4.Alignment and position of the repalced rubber belt to be ensured for smooth functioning of the roller conveyor line along the in feed ,cabin and out feed lines of the machine</p> <p>To quote: Replacement of 1 rubber belt is considered</p>	
110/10	Kickers maintenance -hydraulic/pneumatic	14 NO

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	<p>Repair work in Kicker systems - Motor driven /hydraulically /pneumatically actuated systems.</p> <p>1) The contractor has to remove the damaged kicker arms /plates,repair and refix the kickers in the kicker systems along the in feed and out feed lines of the machine.</p> <p>2) The kickers to be aligned and leveled for the smooth functioning of the system so that the loading and unloading of the tubes to and fro on the roller conveyor and from the ramp stand to dump stand are to be ensured.</p> <p>3) The hydraulic /pneumatic actuators repair work such as replacement of seal kits,replacement of damaged valves and damaged hoses to be taken care for smooth functioning of the kicker system</p> <p>To quote: Repair work for servicing of the kicker system with above works for smooth functioning is considered as 1 unit.</p>	
120/10	Weekly maintenance	52 NO
	<p>Weekly general check-up of the machine</p> <p>Scope of work:</p> <p>The following works are to be carried weekly through-out the year.</p> <p>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.</p> <p>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.</p> <p>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.</p> <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 (4 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>	

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130/10	Pipeline /duct maintenance	10	M2
	Repair works in 8" & 12" pipeline Replacement of new pipe lines: Size 8" & 12" Dia. 1) Dismantle the Existing Pipe line by removing the bolts in the end flanges or by gas cutting. 2) End flanges/ bends are to be fabricated and welded to the new pipeline. 3) Reassemble the new pipe line 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 pipeline/one bend pipe.		
140/10	Ni hard plate replacement	15	NO
	Replacement of Ni-hard Plate 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.		
150/10	Rubber sheet replacement	17	NO
	Replacement of Rubber curtains: 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. UOM : Replacing 1 rubber curtain as 1 unit.		

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Sl.No	SCOPE OF WORK	Qty
ITEM 20	TUBE ROTOBLAST MC MAINTAINCE AT BLDG- 50	
10/20	Dust collector -64 filters cleaning	6 SET
	<p>AMC FOR TUBE ROTO BLASTING MACHINES (2 NOS) MAINTENANCE AT Bay-A/Bldg-50 IN UNIT-I:</p> <p>Tracking no. 1.- 6164-3455 and 2.- 6161-4127</p> <p>Dust collector- 64 Filters Cleaning:</p> <ol style="list-style-type: none"> 1. Dismantle all the covers over the dust collecting chamber. 2. Dismantle all the 64 Nos.of filter units /filter bags and replace the filter unit /filter bags with cleaned/Spare filter units /filter bags 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 filter units /filter bags to be completed in one day . 4.Then transport the clogged filter units /filter bags to identified cleaning area and clean all the 64 Nos. of filter units /filter bags. 4.Ater cleaning the filter units /filter bags at remote place, the filter units /filter bags to be stacked near the machine. This cleaning work to be completed within one week time from the day of dismantling. <p>To Quote :-For cleaning and replacement of 64 Nos.of filter units /filter bags in 2 nos of Tube shot blasting machines /BLDG-50 is considered as 1 set.</p> <p>GENERAL CONDITION FOR ITEM 10 TO 150</p> <p>BHEL SCOPE:</p> <ol style="list-style-type: none"> 1.All the spares required for repairing will be given by bhel at free of cost. 2.All consumables required for maintenance like grease, kerosene, cotton waste, welding electrodes, oxygen, acetylene, compressed air, power will be provided by bhel at free of cost. 3.Welding equipment & accessories for the above work will be provided by bhel at free of cost. 4.Required grade of oil and grease for lubrication will be provided by bhel at free of cost. <p>CONTRACTOR SCOPE:</p> <ol style="list-style-type: none"> 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 	

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	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.	
20/20	Screw conveyor maintenance	8 NO
	<p>Repair works in Screw Conveyor: The contractor has to do the following works:</p> <ol style="list-style-type: none"> 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. <p>To Quote :- For repairing 1 piece of Screw conveyor (around 1.7m length)</p>	
30/20	Replacement or repair of weld mesh & per	6 M2
	<p>Replacement /repair 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. 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. <p>To Quote :- For replacement of 1 sq. metre of weld mesh /perforated plate.</p>	
40/20	Soundabarator servicing	14 NO
	<p>Repair works in Soundabarator:</p> <ol style="list-style-type: none"> 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. The soundabarator unit and pneumatic cylinder should be assembled back and to be checked for smooth functioning. 	

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	5. If the pneumatic line was found damaged, it should be replaced with a new hose. To Quote :-For repair of 1 soundabarator unit.	
50/20	Wheelabrator servicing	9 NO
	Repair works in Wheelabrator: 1. The end covers of the wheelabrator 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 wheelabrator 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 supervisors instructions. To Quote :-For repair of 1 wheelabrator unit.	
60/20	Patch welding on the outside of blasting	10 FT2
	Welding/Patch-up work on the structurals & outside blast chamber: 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.	
70/20	Sprocket chain maintenance	25 NO
	Replacement / servicing of Chains and sprockets in transmission and drive systems: 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 in the drive system . 5. The coupling bolts replacing/tightening work to be done. 6. All the above points are applicable to the Chain drives at in feed roller conveyors,out feed conveyors, bottom screw conveying system, Bucket Elevator and kicker systems. To Quote:-For servicing & mounting One No. of sprocket and chain mechanism.	
80/20	Bucket elevator servicing	8 NO
	Repair work in Bucket elevator.	

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e-mail: umadsankar@bhel.in

	<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>4) The tightness of the bucket elevator belt and the alignment of the the bucket roller drums to be ensured for smooth functioning of the bucket elevator.</p> <p>5) The loading of the shots by the bucket elevator from the bottom of the blasting chamber and unloading of the shots at the top hopper to be synchronised to avoid overloading and tripping of bucket elevator drive.</p> <p>To quote: Repair work for servicing of the bucket elevator mechanism for smooth fuctioning is considered as 1 unit.</p>	
90/20	Rollers - Conveyor system servicing	30 NO
	<p>Repair works in Rollers -In feed /Out feed /Cabin :</p> <p>1. The damaged roller to be dismantled from the machine by removing the bolt and nut assembly after dismantling of the drive sprocket chain /belt mechanism.</p> <p>2. Servicing of the removed roller</p> <p>3. Replacement of serviced roller or new roller and fixing of the mounting bolts and drive mechanism</p> <p>4. Alignment and levelling of the roller along with the exsiting conveyor line to ensure smooth rolling of tubes during shot blasting.</p> <p>To Quote :-For repair of 1 roller is considered as 1 unit.</p>	
100/20	Rubber belts repalcement -Roller conveyo	40 NO
	<p>Rubber belts replacement - Roller conveyor</p> <p>1. The damaged drive rubber belts (round belts) to be removed</p> <p>2. Replacement of new rubber belts</p> <p>3. The dismantling of connecting flange along the drive shaft line if required for fixing new rubber belt to be taken care</p> <p>4. Alignment and position of the repalced rubber belt to be ensured for smooth functioning of the roller conveyor line along the in feed ,cabin and out feed lines of the machine</p> <p>To quote: Replacement of 1 rubber belt is considered</p>	
110/20	Kickers maintenance -hydraulic/pneumatic	14 NO
	Repair work in Kicker systems - Motor driven /hydraulically /pneuamtically actuated systems.	

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	<p>1) The contractor has to remove the damaged kicker arms /plates, repair and refix the kickers in the kicker systems along the in feed and out feed lines of the machine.</p> <p>2) The kickers to be aligned and leveled for the smooth functioning of the system so that the loading and unloading of the tubes to and fro on the roller conveyor and from the ramp stand to dump stand are to be ensured.</p> <p>3) The hydraulic /pneumatic actuators repair work such as replacement of seal kits, replacement of damaged valves and damaged hoses to be taken care for smooth functioning of the kicker system</p> <p>To quote: Repair work for servicing of the kicker system with above works for smooth functioning is considered as 1 unit.</p>	
120/20	Weekly maintenance	52 NO
	<p>Weekly general check-up of the machine</p> <p>Scope of work:</p> <p>The following works are to be carried weekly through-out the year.</p> <ol style="list-style-type: none"> 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. 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. 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. 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. 7. The condition of weld mesh and perforated plates inside the blasting chamber should be checked and shall be reported to MMO supervisor. 8. Check the condition of the impeller blades in all the Blast wheels units (4 Nos) and inform the MMO supervisor for corrective action. 9. Contractor should record all the conditions in the register provided by MMO and report as per instruction of supervisor. 	
130/20	Pipeline /duct maintenance	10 M2
	Repair works in 8" & 12" pipeline	

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	<p>Replacement of new pipe lines: Size 8" & 12" Dia.</p> <ol style="list-style-type: none"> 1) Dismantle the Existing Pipe line by removing the bolts in the end flanges or by gas cutting. 2) End flanges/ bends are to be fabricated and welded to the new pipeline. 3) Reassemble the new pipe line and tight the flange bolts. 4) Wherever the flange gaskets are found damaged, it should be replaced by new one. <p>UOM : For 1 Mtr. length of straight pipeline/one bend pipe.</p>	
140/20	Ni hard plate replacement	15 NO
	<p>Replacement of Ni-hard Plate</p> <ol style="list-style-type: none"> 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. <p>UOM : Replacing/repair of one Ni-hard plate.</p>	
150/20	Rubber sheet replacement	17 NO
	<p>Replacement of Rubber curtains:</p> <ol style="list-style-type: none"> 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. <p>UOM : Replacing 1 rubber curtain as 1 unit.</p>	

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

3) TENDERING CONDITIONS:

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 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

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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 Indigenous supplier will be entertained only if the vendor has a valid GST registration No (GSTIN) which should be clearly mentioned in the offer. If the dealer is exempted from GST registration, a declaration with due supporting documents need to be furnished for considering the offer. Dealers under composition scheme should declare that he is a composition dealer supported by the screen shot taken from GST portal. The dealer has to submit necessary documents if there is any change in status under GST.

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

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

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

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

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

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

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

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

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

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

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

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

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the TDS deduction in the GST portal, will be issued to the vendor.

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.

14.PF,ESI:

The workmen of contractor should be covered under PF, ESI

15.DAMAGE & LOSS TO PRIVATE PROPERTY & INJURY TO WORKMEN

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

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

a) Victim: Any person who suffers permanent disablement or dies in an accident as defined below.

b) Accident: Any death or permanent disability resulting solely and directly from any unintended and unforeseen injurious occurrence caused during the manufacturing/operation and works incidental thereto at BHEL factories/offices and precincts thereof, project execution, erection and commissioning, services, repairs and maintenance, trouble shooting, serving, overhaul, renovation and retrofitting, trial operation, performance

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guarantee testing undertaken by the company or during any works/during working at BHEL Units/Officers/townships and premises/Project sites

c) Compensation in respect of each of the victims:

(i) In the event of death or permanent disability resulting from Loss of both limbs: Rs 10,00,000/- (Rs Ten lakh)

(ii) In the event of others permanent disability: Rs.7,00,000/- (Rs. Seven Lakh)

d) Permanent Disablement: A disablement that is classified as a permanent total disablement under the proviso to section 2 (I) of the Employee's Compensation Act,1923"

16.ARBITRATION: -

a).All disputes between the parties to the contract, arising out-of or relating to the contract, other than those for which the decision of the EXECUTIVE/BHEL-TRICHY, or Accepting Officer or any other person is by the contract expressed to be final and conclusive shall after written notice by either party to the contract to the other party be referred to the sole Arbitration of GENERAL MANAGER or other Officers of BHEL appointed as Arbitrator, by the GENERAL MANAGER of BHEL in his sole discretion.

b).Unless the parties otherwise agree, such reference shall not take place until after the completion, alleged completion or abandonment of the work of the determination of the contract.

c) The venue of Arbitration shall be such a place or places as may be fixed by the Arbitrator in his sole discretion. The award of the Arbitrator shall be final, conclusive and binding on both parties to the contract.

17.PAYMENT THROUGH BANK:-

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

18.IMPORTANT NOTE:-

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

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COMMERCIAL TERMS AND CONDITIONS FOR M&S MECHANICAL CONTRACTS

- 1) 100% payment will be made after completion of work on pro-rata basis on submission of invoice in triplicate duly certified by Area In-charge.
- 2) Attendance register should be maintained.
- 3) Payment of **EMD** should be done in the methods given in Spl. Instructions, sl.no.1, page-1 of the NIT.
- 4) Mode of Payment of **Security Deposit**:
 - a) **Bank Guarantee** from Scheduled Banks/ Public Financial Institutions as per Companies Act. Bank Guarantee format should have approval of BHEL or
 - b) **Local Cheques** of Scheduled Banks (subject to realization)/ **Pay Order/ DD/ Electronic Fund Transfer** in favour of BHEL or
 - c) **Fixed Deposit Receipt (FDR)** issued by Scheduled Banks/ Public Financial Institutions as defined in the Companies act (FDR should be in the name of the Contractor, a/c BHEL) or
 - d) **Securities available from Indian Post Offices**, i.e. National Savings Certificates, Kisan Vikas Patras, etc. (held in the name of Contractor furnishing the security & duly endorsed/ pledged, as applicable, in favour of BHEL). While making such payment, Enquiry number should be mentioned in Remark column.
- 5) **Procedure to remit money to BHEL Trichy's Account (e-Collect Mode)**:
 Login to : <https://www.onlinesbi.com/prelogin/icollecthome.htm?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. GST will be charged on the EMD/SD amount forfeited from the bidder at the applicable rates. GST tax Invoice will be issued to the vendor on receipt/recovery of GST amount from the vendor
- 9) An additional payment as per circular ref. BHEL: HR: W: EW, dt.08.04.2014 is to be paid to the contract workmen as below, over and above the minimum wages prescribed by the government of Tamil Nadu:

Unskilled	- Rs.3200/-
Semiskilled	- Rs.3700/-
Skilled	- Rs.4100/-
- 10) Bonus @ 8.33 % to workmen to be paid.
- 11) **Rate should be quoted as per price bid format.**
- 12) The rate that is offered should be comprehensive and no separate charges will be made towards expenses like travel, boarding & lodging.
- 13) GST not to be included in quoted rate & to mention separately as percentage. Other taxes, if any, are inclusive.
- 14) Tax deduction will be made from every bill at the prevailing rate as per the Government rule and regulation from time to time.
- 15) Evaluation will be on overall L1 for all items as per price bid template. In case of tie in L1, price impact will be obtained. If still tie exist L1 bidder will be chosen by draw of Lot..

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SCHEDULE FOR PRICE BID

NAME OF WORK: **AMC For Tube Rotoblasting Machines- 2 nos available At Unit -2 & 2 Nos Available At Bldg-50**

Ref: Enquiry no: 9242000002: dt. 07.01.2020; Due dt. **29.01.2020**, 14.00 Hrs

Sl. No	SCOPE OF WORK	% ALLOCATION	VALUE	
			In Figures	In Words
10 & 20	TUBE ROTOBLAST MC MAINTAINCE AT UNIT II & Bldg.50	100%		

Sl. No	SCOPE OF WORK	Qty.	UoM	% ALLOCATION
10	TUBE ROTOBLAST MC MAINTAINCE AT UNIT-II			50%
10/10	Dust collector -64 filters cleaning	6	SET	2.61%
20/10	Screw conveyor maintenance	8	NO	2.27%
30/10	Replacement or repair of weld mesh & per	6	M2	1.08%
40/10	Soundabarator servicing	14	NO	2.65%
50/10	Wheelabarator servicing	9	NO	2.81%
60/10	Patch welding on the outside of blasting	10	FT2	1.80%
70/10	Sprocket chain maintenance	25	NO	4.02%
80/10	Bucket elevator servicing	8	NO	3.44%
90/10	Rollers - Conveyor system servicing	30	NO	5.39%
100/10	Rubber belts replacement -Roller conveyor	40	NO	3.03%
110/10	Kickers maintenance -hydraulic/pneumatic	14	NO	2.25%
120/10	Weekly maintenance	52	NO	13.67%
130/10	Pipeline /duct maintenance	10	M2	1.70%
140/10	Ni hard plate replacement	15	NO	1.93%
150/10	Rubber sheet replacement	17	NO	1.35%

Sl. No	SCOPE OF WORK	Qty.	UoM	% ALLOCATION
20	TUBE ROTOBLAST MC MAINTAINCE AT BLDG-50			50%
10/20	Dust collector -64 filters cleaning	6	SET	2.61%
20/20	Screw conveyor maintenance	8	NO	2.27%

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30/20	Replacement or repair of weld mesh & per	6	M2	1.08%
40/20	Soundabarator servicing	14	NO	2.65%
50/20	Wheelabarator servicing	9	NO	2.81%
60/20	Patch welding on the outside of blasting	10	FT2	1.80%
70/20	Sprocket chain maintenance	25	NO	4.02%
80/20	Bucket elevator servicing	8	NO	3.44%
90/20	Rollers - Conveyor system servicing	30	NO	5.39%
100/20	Rubber belts replacement -Roller conveyor	40	NO	3.03%
110/20	Kickers maintenance -hydraulic/pneumatic	14	NO	2.25%
120/20	Weekly maintenance	52	NO	13.67%
130/20	Pipeline /duct maintenance	10	M2	1.70%
140/20	Ni hard plate replacement	15	NO	1.93%
150/20	Rubber sheet replacement	17	NO	1.35%

- ❖ The bidder should quote the lumpsum rate (i.e., Combined rate for Unit-II & Bldg.50) and not the individual rates for every item.
- ❖ GST not to be included in the quoted rate & to be mentioned as a percentage separately. Other taxes, if any, are inclusive.
- ❖ L1 offer will be decided based on cumulative L1 value and order will be placed on single contractor.
- ❖ Refer the Illustration (Annexure –A) for arriving the rates for individual items by BHEL for the total amount quoted by the vendor

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

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BHARAT HEAVY ELECTRICALS LIMITED

High Pressure Boiler Plant, Tiruchirappalli- 620014

Maintenance & Services Dept. (FB)

☎: (0431) 257-5010

e-mail: umadsankar@bhel.in

Annexure – A

ILLUSTRATION FOR ARRIVING THE RATES FOR INDIVIDUAL ITEMS BY BHEL FOR THE TOTAL AMOUNT QUOTED BY THE VENDOR

The rates for the individual items would be arrived by BHEL as follows

Assuming the lumpsum amount quoted by the vendor is 1,00,000 /- (One Lakh).

In this illustration assume there are fifteen items in the work. The respective percentage allocation is specified below.

Sl.No.	ITEM No.	Quantity	% Allocation
1	10/10	6	2.61%
2	20/10	8	2.27%
3	30/10	6	1.08%
4	40/10	14	2.65%
5	50/10	9	2.81%
6	60/10	10	1.80%
7	70/10	25	4.02%
8	80/10	8	3.44%
9	90/10	30	5.39%
10	100/10	40	3.03%
11	110/10	14	2.25%
12	120/10	52	13.67%
13	130/10	10	1.70%
14	140/10	15	1.93%
15	150/10	17	1.35%

Then, For item no 10,

Amount allocated for item 10/10 would be = 2.61% X 1,00,000 (Since % allocation is 2.61 % for this item)
= Rs.2610/

Hence the rate for item 10/10 would be = 2610/6=435/-

In the same manner the rates for all items would be arrived as follows,

Item 20/10	=	₹ 283.75
Item 30/10	=	₹ 180.00
Item 40/10	=	₹ 189.29
Item 50/10	=	₹ 312.22
Item 60/10	=	₹ 180.00
Item 70/10	=	₹ 160.80
Item 80/10	=	₹ 430.00

Sign & Seal of Contractor



An ISO: 9001
Organization

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Item 90/10	=	₹ 179.67
Item 100/10	=	₹ 75.75
Item 110/10	=	₹ 160.71
Item 120/10	=	₹ 262.88
Item 130/10	=	₹ 170.00
Item 140/10	=	₹ 128.67
Item 150/10	=	₹ 79.41

The rates will be rounded off to nearest two decimal places only, so as to match the total amount or closest to the total amount, quoted by the vendor. Rates so arrived by BHEL shall be final and binding on the contractor.



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:

Name:

(Signature)

Membership number:

Seal of Chartered Accountant