

BHARAT HEAVY ELECTRICALS LIMITED

(A Govt.of India Undertaking)

High Pressure Boiler Plant, Tiruchirappalli 620 014, India

MAINTENANCE & SERVICES DEPARTMENT

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



ISO 9001

ENQ No: 9241600175

07.12.2016

NOTICE INVITING TENDER

Sub: **SERVICE CONTRACT FOR CONDITION MONITORING-PHASE B- Reg.**

Ref: Enquiry no: 9241600175 DATED:28/11/2016;DUE DT:30/12/2016

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

- 1) EMD cover shall contain requisite **EMD of Rs.7939/-** remitted in cash (as permissible under Income Tax Act)/Electronic Fund Transfer credited in BHEL account before tender opening or Banker's cheque/Pay order/Demand Draft in favour of M/S BHEL Trichy. Tender without EMD will be summarily rejected and the Technical bid & price bid shall not be considered.
- 2) Technical bid cover shall contain duly filled in Technical bid document signed by the tenderer in all the pages with documentary evidences for pre-qualification such as experience, value of work executed in the similar nature of work etc. Any bid without proper documentary evidence for pre-qualification shall not be considered for further evaluation.
- 3) One set of unpriced bid of Contract Work Schedule duly signed by the tenderer for accepting the work content (BOM) should be submitted along with the Technical bid for technical evaluation.
- 4) The price bid cover shall contain price bid document duly filled in and signed by the tenderer in all the pages. The tenderer has to quote most competitive rates for all the items given in the Bill of Quantities in price bid.

The complete Technical bid and price bid along with requisite **EMD of Rs.7939/-** shall reach the office of the undersigned on or before 30/12/2016 at 14.00 Hrs.

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

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The Technical bid will be opened on the same day at 14.30 hrs. In case of opening day falls on holiday or happened to be declared as a holiday the receipt and opening of the tender shall automatically fall on the same timing of the next working day. Date and time of opening of the Price Bid shall be intimated only to the bidders those who have qualified after evaluation of the Technical bid. You / Your authorized representative may participate in the tender opening.

Clarification if any can be obtained from the undersigned.

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

Thanking you,

Yours faithfully,

For Bharat Heavy Electricals Limited,

Sr. Manager

Contracts

Maintenance & Services Dept

Encl:

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

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

MAINTENANCE & SERVICES / CONTRACTS,

2&4 BUILDING, BHARAT HEAVY ELECTRICALS LIMITED,

HIGH PRESSURE BOILER PLANT,

TIRUCHIRAPPALLI - 620014,

TAMILNADU

Sign & Seal of Contractor

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NOTICE INVITING TENDER

01.	Name of work	SERVICE CONTRACT FOR CONDITION MONITORING-PHASE-B
02.	Earnest Money Deposit	Rs.7939/-
03.	Duration of the contract	2 Years (From the date of commencement of the work)
04.	Last Date for Receipt of Tender	14.00 Hrs on 30/12/2016
05.	Date of Technical Bid Opening	14.30 Hrs on 30/12/2016
05.	Date of Price Bid Opening	Will be intimated to those who are Qualified separately.
07.	Guarantee Period	Not applicable

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

Tender document contains 32 Pages (Technical Bid – 28 Pages, Schedule for price bid – 04 page).

ISSUING OFFICER

Sign & Seal of Contractor

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TECHNICAL BID

NAME OF THE WORK: **SERVICE CONTRACT FOR CONDITION MONITORING-PHASE-B**

Enquiry no: 9241600175 Dated: 28/11/2016. Due date: 30/12/2016, 14.00 Hrs.

PRE-QUALIFICATION CRITERIA

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

Sl. No	Description	Vendor to confirm
1	Only those BIDDER/SERVICE PROVIDER, who have experience in executing Condition monitoring activities/Maintenance Contract/Fabrication Contract in any engineering industry in the last five years (from the date of opening of tender) are eligible to participate in the tender. Work Order copies of the POs proving the same are to be enclosed. Otherwise offer is liable for rejection. Bidder to confirm	
2	Name and contact details like E-mail, Phone number, Fax no, etc. of the customer / company where the maintenance contract is executed. Bidder to confirm	
3	BHEL may verify the information provided by vendor. In case the information provided by vendor is found to be false / incorrect, the offer shall be rejected. Bidder to confirm.	
4	PAN Number (Copy to be Enclosed)	
5	Service tax Registration Number (If applicable) – Certificate copy to be enclosed	
6	Acceptance for Scope of Work as per the Enquiry	
7	Acceptance for All Terms & Conditions as per the Enquiry	
8	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 and shall immediately bring to the notice of BHEL management about any fraud or suspected fraud as soon as it comes to their notice.	

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SCOPE OF WORK:

1. CONDITION MONITORING: PHASE B MACHINES

SI.	SCOPE OF WORK	QTY
10	S-3150 HEAVY DUTY CENTER LATHE, 4167-0350 BLDG-1 BAY-1D: SPINDLE MOTOR (OLD HEAD) 115 KW CARRIAGE - 1 (OLD) MOTOR 2.2 KW LUBRICATION MOTOR-1(OLD) 3.0 KW LUBRICATION MOTOR-2(OLD) 3.0 KW SPINDLE MOTOR (NEW HEAD) 100 KW COOLING FAN MOTOR-2(NEW) 1.3 KW CARRIAGE - 2 (NEW) MOTOR 3.0 KW LUBRICATION MOTOR-2 (NEW) 0.37KW LUBRICATION MOTOR-3 (NEW) 1.5 KW	4 NO
20	100T FURNACE: 1524-0207: 100T FURNACE,1524-0207 BLDG-1 BAY-1D FD FAN MOTOR 1 30 KW / 2850 RPM	4 NO
30	300T FURNACE: 1593-2238: 300T FURNACE, 1593-2238- BLDG-1 BAY-197 FD FAN MOTOR-2 NOS 45 KW / 1450 RPM	4 NO
40	150T FURNACE: 1592-2237: 150T FURNACE,1592-2237- PRESS SHOP FD FAN MOTOR-2 NOS 110 KW / 1450 RPM.	4 NO

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<p>50</p>	<p>2000T PRESS: 3215-0092:</p> <p>2000T PRESS,3215-0092- PRESS SHOP</p> <p>HYDRAULIC PUMP & MOTOR -1 150 KW / 985 RPM</p> <p>HYDRAULIC PUMP & MOTOR -2 150 KW / 985 RPM</p> <p>HYDRAULIC PUMP & MOTOR -3 150 KW / 985 RPM .</p>	<p>4 NO</p>
<p>60</p>	<p>8000T PRESS: 3218-2285:</p> <p>8000T PRESS ,3218-2285 PRESS SHOP</p> <p>SERVO PUMP & MOTOR-1 18.5 KW / 1450 RPM</p> <p>SERVO PUMP & MOTOR-2 18.5 KW / 1450 RPM</p> <p>PILOT CONTROL PUMP&MOTOR-1 15 KW / 1450 RPM</p> <p>PILOT CONTROL PUMP&MOTOR-2 15 KW / 1450 RPM</p> <p>FILTER UNIT PUMP & MOTOR 22 KW / 1450 RPM</p> <p>AUXILLARY PUMP & MOTOR-1 75 KW / 1450 RPM</p> <p>AUXILLARY PUMP & MOTOR-2 75 KW / 1450 RPM</p> <p>MAIN PUMPS & MOTOR-1 200 KW / 1450 RPM</p> <p>MAIN PUMPS & MOTOR-2 200 KW / 1450 RPM</p> <p>MAIN PUMPS & MOTOR-3 200 KW / 1450 RPM</p> <p>PRESS HOLDING PUMP&MOTOR-1 22 KW / 1450 RPM</p> <p>PRESS HOLDING PUMP&MOTOR-2 30 KW / 1450 RPM.</p>	<p>4 NO</p>
<p>70</p>	<p>PTC400 - DEEP HOLE BORING M/C: 4388-0107:</p> <p><u>PTC400-DEEP HOLE BORING M/C, 4388-0107 BLDG-1 BAY-1</u></p> <p>HYDRAULIC PUMP MOTOR 1.5KW / 970 RPM.</p> <p>HYD. CLAMPING MOTOR 0.7 KW / 1450 RPM.</p> <p>BORING FEED MOTOR 5.5KW / 1970 RPM.</p> <p>SPINDLE MOTOR 30KW / 970 RPM.</p> <p>RAPID FEED MOTOR 3.7KW / 1450 RPM.</p> <p>HP COOLANT MOTOR 15 KW / 970 RPM.</p>	<p>4 NO</p>

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110	COOPER BORING M/C (CVBM): 4234-2400: COOPER VERTICAL BORING M/C (CVBM)4234-2400 BLDG-1 BAY-5 Table Motor 80HP,1500RPM. Table Traverse 3HP, 1500RPM. Hyd Declamp motor 3HP, 1500RPM. Hyd Balancing Motor 5HP, 1500RPM X&Y axis Tool Post 5KW. Side head tool post 5KW, 60A. Table drive motor blower 1HP, 1500RPM. Cross rail motor 15HP,1500RPM	4 NO
120	HB 627 - CNC HOR. BORING M/C: 4838-3503: HB627 - CNC HORIZONDAL BORING M/C 4838-3503BLDG-1 /BAY-1A Hyd. Motor 11 KW 1455 RPM. Chip conveyor 0.37KW 1440 RPM Spindle Motor 45 KW 1500 - 4000 RPM X-Axis 7.3 KW 56 NM / 2000 RPM. Y-Axis 5.9 KW 40 NM / 2000 RPM. U-Axis 3.7 KW 12 NM / 2000 RPM. Z- Axis 7.3 KW 56 NM / 2000 RPM. W- Axis 7.3 KW 40 NM / 2000 RPM.	4 NO
130	STC-25 CNC SLANT BED LATHE: 4474-2833: STC-25 CNC SLANT BED LATHE 4474-2833 BLDG-5 BAY-2 SPINDLE MOTOR 22KW / 1500 RPM HYDRAULIC MOTOR 1.4KW / 1400 RPM Z-AXIS MOTOR 20Nm / 2000 RPM (max)	4 NO

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140	STC-25 CNC SLANT BED LATHE: 4474-2874: STC-25 CNC SLANT BED LATHE 4474-2874 BLDG-5 BAY-4 SPINDLE MOTOR 30 KW / 2000 to 8000 RPM HYDRAULIC MOTOR 2.2KW / 1430 RPM X- AXIS MOTOR 16Nm / 2000 to 3200 RPM Z- AXIS MOTOR 16Nm / 2000 to 3200 RPM	4 NO
150	L-45 CNC LATHE: 4145-3501: L-45 CNC LATHE 4145-3501 BLDG-5 BAY-4 SPINDLE MOTOR 22 KW / 1450 RPM HYDRAULIC MOTOR 3.7KW	4 NO
160	WSU-18 CNC LATHE: 4479-3241: WSU-18 CNC LATHE 4479-3241 BLDG-5 BAY-5 1 SPINDLE MOTOR 45KW / 1500 to 6000 RPM 2 HYDRAULIC MOTOR 3.7KW / 1430 RPM 3 X-AXIS MOTOR 22Nm / 1500 RPM 4 Z-AXIS MOTOR 22Nm / 1500 RPM	4 NO
170	ST-15 CNC LATHE: 4478-3237: ST-15 CNC LATHE 4478-3237 BLDG-5 BAY-5 : HYDRAULIC MOTOR 3.7KW / 1430 RPM X-AXIS MOTOR 22Nm / 2000 RPM Z-AXIS MOTOR 22Nm / 2000 RPM SPINDLE DRIVE 45KW/1500 to 6000 RPM	4 NO

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180	VDF CNC LATHE: 4477-2232: VDF CNC LATHE 4477-2232 BLDG-5 BAY-6: SPINDLE MOTOR 75KW / 4500 RPM HYDRAULIC MOTOR 0.75KW / 1415 RPM X-AXIS MOTOR 65Nm / 2000 RPM Z-AXIS MOTOR 65Nm / 2000 RPM	4 NO
190	ECONO CNC 26 CENTRE LATHE: 4473-2845: ECONO CNC26 HMT CENTRE LATHE4473-2845 BLDG-6 - BAY 0 Spindle Motor 11KW X-Axis Motor 10Nm Z- Axis Motor 10Nm Hydraulic Powerpack Motor 1.5KW	4 NO
200	SB CNC 35 SLANT BED LATHE: 4478-2834: SB CNC-35 SLANT BED LATHE 4478-2834 BLDG-6 BAY 0 SPINDLE MOTOR 41 KW X-AXIS MOTOR 23 Nm Z-AXIS MOTOR 57 Nm Hydraulic Pump Motor 7.5KW	4 NO

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210	SB CNC 35/2000 LATHE: 4472-2357: SB CNC-35/2000 LATHE 4472-2357 BLDG-6 BAY 3: Spindle Motor 41 KW X - axis Motor 23 Nm Z - axis Motor 50 Nm Hydraulic motor 7.5 KW	4 NO
220	MDW20 CNC LATHE: 4476-2861: MDW-20 CNC LATHE 4476-2861 BLDG-6 BAY-3 SPINDLE MOTOR 50KW X-AXIS MOTOR 14Nm Z-AXIS MOTOR 14Nm Hydraulic Pump Motor 3KW	4 NO
230	HMC-800 CNC MACHINING CENTRE: 4806-2933: HMC-800 CNC MACHINING CENTRE 4806-2933 BLDG-6 BAY-3: SPINDLE MOTOR 15 KW Z-AXIS DRIVE MOTOR 10 Nm Hydraulic pump Motor 7.5 KW	4 NO
240	SKIQ-12 CNC BORING MACHINE: 4282-2929: SKIQ-12 CNC VERTICAL BORING M/C 4282-2929 BLD-6 BAY-4: Spindle Motor 63KW X -axis AC Servo Motor 38Nm Z - axis AC Servo Motor 38Nm Hydraulic Pump Motor 3KW	4 NO

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250	SIZING AND SQUEEZING FURNACE-BAY 3: Sizing and Squeezing Furnace 33550059: FD Fan I 15 2880 FD Fan II 15 2880 ID Fan I 5.5 2880 ID Fan II 5.5 2880	4 NO
260	SIZING AND SQUEEZING FURNACE-BAY 4: Sizing and Squeezing Furnace 33552038: FD Fan I 15 2880 FD Fan II 15 2880 ID Fan I 5.5 2880 ID Fan II 5.5 2880	4 NO
270	NEW ATCEP- TUBE EP M/C: 5959-3493: New ATCEP 5959-3493 BLDG-50 BAY-A : Milling motor 5.5 KW Vaccum motor 13 KW Buffing unit motor 0.75Kw FEED Motor 1.1 KW Hydraulic pump motor 1.8 KW	4 NO
280	AIR BLOWER - III (GAS PLANT): AIR BLOWER - III PG PLANT : AIR BLOWER MOTOR 18.5KW / 2930 RPM	4 NO
290	ID FAN - I (GAS PLANT): ID FAN - I PG PLANT: ID FAN MOTOR 18.5 KW / 1470 RPM	4 NO

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440	SPECTRATURN 15CNC SB LATHE: 4478-3256: SPECTRATURN 15CNC SB LATHE 44783256) BLDG.-6, BAY-0	4 NO
	SPINDLE MOTOR 6000 RPM 26 KW X AXIS MOTOR 2000 RPM 3.8 KW Z AXIS MOTOR 2000 RPM 3.8 KW HYDRAULIC MOTOR 1430 RPM 3.7 KW	
450	VMC-1250VERTICAL MACHINIG CENTRE42874297: VMC-1250- Vertical Machinig Centre:42874297 BLDG 6 BAY A	4 NO
	AC Main Spindle Motor 22KW, 1500RPM X-Axis Motor 38Nm, 2000RPM Y-Axis Motor 38Nm, 2000RPM Z-Axis Motor 38Nm, 2000RPM Hydraulic Pump 7.5KW,1440RPM	
460	SACEM CNC HMC -MSMG125CN: 4807-2935: SACEM CNC HMC-MSMG125CN (4807-2935) BLDG.-6, BAY-4	4 NO
	SPINDLE MOTOR 6500 RPM 53 KW HYDRAULIC MOTR - 1 HYDRAULIC MOTOR - 2	
470	OD WELDING M/C -CAYUGA: 2896-2114: OD WELDING M/C -CAYUGA (2896-2114)BLDG-1 BAY-1D	4 NO
	CARRIAGE LONG TRAVEL 2900 RPM 2.2 KW BOOM IN/OUT 1400 RPM 0.5 KW BOOM UP/DOWN 1440 RPM 1.5 KW	
480	50T FURNACE: 1523-0206: 50T FURNACE (1523-0206) BLDG-1 BAY-1D	4 NO
	FD FAN MOTOR - 2 Nos. 2850 RPM ; 30 KW	
490	10T FURNACE (1522-0205): 10T FURNACE (1522-0205) BLDG-1 BAY-1D	4 NO
	FD FAN MOTOR-1 NO 2945 RPM 22.5 KW FD FAN MOTOR-2 NO 2945 RPM 22.5 KW	

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500	OD-II AUTO WELDING ESAB: 2896-3230:			4 NO
	OD-II AUTO WELDING ESAB (2896-3230) BLDG-1 BAY-1D			
	CARRIAGE LONG TRAVEL	2900 RPM	2.2KW	
	BOOM UP/DOWN	930 RPM	1.1KW	
	BOOM IN/OUT	930 RPM	1.1KW	
510	WD-160 HORIZONTAL BORING: 4828-0047:			4 NO
	WD-160 HORIZONTAL BORING (4828-0047) BLDG-1 BAY-1D			
	X AXIS MOTOR	3420 RPM	6 KW	
	Y AXIS MOTOR	3420 RPM	6 KW	
	SPINDLE MOTOR	2570 RPM	37 KW	
520	ITL BAND SAW: 5967-3510:			4 NO
	ITL BAND SAW (59673510) BLDG-94/TPC			
	SPINDLE MOTOR	1440 RPM	15 KW	
	COOLANT MOTOR	2800 RPM	0.15KW	
	CHIP CLEANING MOTOR	900 RPM	0.18KW	
	HYDRAULIC MOTOR	1400 RPM	1.5 KW	
	LUBRICATION MOTOR	4000 RPM	0.12KW	
	WIRE BRUSH CLEANING MOTOR	1400 RPM	0.12KW	
530	SAFOP PIPE CHAMF. M/C BAY11: 4396-2095:			4 NO
	PIPE CHAMFERING M/C-SAFOP TUBMATIC 800 (4396-2095)BLDG-1 BAY-11			
	SPINDLE (CHUCK) DRIVE	1800 RPM	29.44KW	
	HYD.PUMP MOTOR FOR CLAMPING UNIT	1430 RPM	5.5KW	
	HYD.PUMP MOTOR FOR HEAD STOCK MOVEMENT	1440RPM	1.5 KW	
	LUBRICATION PUMP MOTOR	1440RPM	0.75 KW	
	PIPE CLAMP VERTICAL ADJUSTMENT MOTOR	1440RPM	0.75 KW	
	PIPE CLAMP HORIZONTAL ADJUSTMENT MOTOR	1440RPM	0.75 KW	
	STEADY REST MOTOR 1	1430RPM	3.7 KW	
	STEADY REST MOTOR 2	1430RPM	3.7 KW	
	BLOWER MOTOR FOR SPINDL DRIVE DC MOTOR	1415RPM	1.5 KW	

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<p>540</p>	<p>Y-1197 HORIZONTAL BORING &MILLING M/C: Y-1197 HORIZONTAL BORING &MILLING M/C</p> <p>1. SPINDLE MOTOR MAKE: SIEMENS (308V,57A,22KW,0.853PF,51.20HZ, 1500RPM,S1), 57V,56A, 25KW, 0.85PF, 59.52HZ, 1750RPM, S1), (402V, 55A, 28KW, 0.85PF, 67.90HZ, 2000RPM, S1), MAX.:8000RPM, ENCODERD20-2048S/4, KTV 84-130</p> <p>2. X-AXIS MOTOR (3PH MOTOR) MAKE: SIEMENS (M0-50NM,I0-21.4A, 5600RPM), (Mn-38NM,IIn-17.6A, 2000RPM) Vin-298V ENCODER-1-2048</p> <p>3. Z-AXIS MOTOR(3PH MOTOR) MAKE:SIEMENS (M0-50NM,I0-21.4A,5600RPM),(Mn-38NM,IIn-17.6A,2000RPM)Vin-298V ENCODER-1-2048</p> <p>4. Y-AXIS MOTOR(3PH MOTOR) MAKE:SIEMENS (50NM,I0-21.4,290V,5600RPM),(38NM,IIn-17.6A,298V,2000RPM)ENCODER-1-2048</p> <p>5. A-AXIS MOTOR(3PH MOTOR) MAKE:SIEMENS (M0-6NM,I0-4.5A,7200RPM),(Mn-4.2NM,IIn-3.3A,3000RPM)Vin-254V ENCODER-AM2048 S/R F 20,IP64</p> <p>6.C-AXIS MOTOR(3PH MOTOR) MAKE:SIEMENS (M0-6NM,2.7A,9100RPM),(MN-5.2NM,I0-2.6A,2000RPM),TH.CLASS-F,ENCODER-A-2048,RNOOO FII</p> <p>7. HYDRAULIC MOTOR 3PH,415V,15KW,20HP,26.5A,P.F-0.85,DUTY-S1,INS.CLASS-B,EP55,970RPM,FOOT MOUNT,NO:172211</p>	<p>4 NO</p>												
<p>550</p>	<p>INDUCTION PR. WELDER IPW-1: 2988-0042:</p>	<p>4 NO</p>												
<p>560</p>	<p>INDUCTION PR. WELDER IPW-2: 2988-0101: INDUCTION PRESSURE WELDER IPW-2 (PRD) (2988-0101) BLDG-50 BAY 3</p> <table border="0"> <tr> <td>MOTOR - GENERATOR SET</td> <td>2880</td> <td>RPM</td> <td>115 KW</td> </tr> <tr> <td>HYDRAULIC PUMP MOTOR</td> <td>975</td> <td>RPM</td> <td>7.5 KW</td> </tr> <tr> <td>HYDRAULIC PUMP MOTOR</td> <td>975</td> <td>RPM</td> <td>5.5 KW</td> </tr> </table>	MOTOR - GENERATOR SET	2880	RPM	115 KW	HYDRAULIC PUMP MOTOR	975	RPM	7.5 KW	HYDRAULIC PUMP MOTOR	975	RPM	5.5 KW	<p>4 NO</p>
MOTOR - GENERATOR SET	2880	RPM	115 KW											
HYDRAULIC PUMP MOTOR	975	RPM	7.5 KW											
HYDRAULIC PUMP MOTOR	975	RPM	5.5 KW											
<p>570</p>	<p>DEUMA FLAT FIN WELDING M/C: 2889-2139: DEUMA FFWELDING M/C 411DS2/2000 (2889-2139) BLDG-50 BAY 5</p> <table border="0"> <tr> <td>HYDRAULIC PUMP MOTOR</td> <td>1450</td> <td>RPM</td> <td>15 KW</td> </tr> <tr> <td>TUBE FEED MOTOR</td> <td>2830</td> <td>RPM</td> <td>2.2 KW</td> </tr> <tr> <td>FLAT FEED MOTOR</td> <td>2830</td> <td>RPM</td> <td>2.2 KW.</td> </tr> </table>	HYDRAULIC PUMP MOTOR	1450	RPM	15 KW	TUBE FEED MOTOR	2830	RPM	2.2 KW	FLAT FEED MOTOR	2830	RPM	2.2 KW.	<p>4 NO</p>
HYDRAULIC PUMP MOTOR	1450	RPM	15 KW											
TUBE FEED MOTOR	2830	RPM	2.2 KW											
FLAT FEED MOTOR	2830	RPM	2.2 KW.											
<p>580</p>	<p>SWAGING FURNACE:</p> <table border="0"> <tr> <td></td> <td>KW</td> <td>RPM</td> </tr> <tr> <td>FD Fan I</td> <td>7.5</td> <td>3000</td> </tr> <tr> <td>FD Fan II</td> <td>7.5</td> <td>3000</td> </tr> </table>		KW	RPM	FD Fan I	7.5	3000	FD Fan II	7.5	3000	<p>4 NO</p>			
	KW	RPM												
FD Fan I	7.5	3000												
FD Fan II	7.5	3000												

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BHARAT HEAVY ELECTRICALS LIMITED

(A Govt.of India Undertaking)

High Pressure Boiler Plant, Tiruchirappalli 620 014, India

MAINTENANCE & SERVICES DEPARTMENT

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590	KKK AUTOMATIC TUBE CUTTING AND EDGE PREP:		4
		KW RPM	NO
	Hydraulic pump & Motor	1.5 1500	
	Tube cutting motor	7.5 1500	
	Tube cutting feed motor	0.5 2000	
	Bevel I motor	15 1800	
	Bevel I Feed motor	1 2000	
	Bevel II Motor	15 1800	
	Bevel II Feed Motor	1 2000	
600	600TON GOOSE NECK PRESS (BAY-2):		4
	600TON GOOSE NECK PRESS (BAY-2)		NO
	DESCRIPTION	RPM	MOTOR CAPACITY
	MAIN HYD PUMP WITH MOTOR	1450 RPM	60 HP.
610	TRAVELLING COLUMN RADIAL DRILLING MACHIN:		4
	WEILER TRAVELLING COLUMN RADIAL DRILLING MACHINE-BAY 3		NO
		KW RPM	
	Saddle drive motor	11.0 725	
620	TRAVELLING COLUMN RADIAL DRILLING MACHIN:		4
	WEILER TRAVELLING COLUMN RADIAL DRILLING MACHINE-BAY 7		NO
		KW RPM	
	Saddle drive motor	11.0 725	
630	INDOTECH MAKE DOUBLE COLOMN BANDSAW:		4
		KW RPM	NO
	Blade drive motor	11.0 1455	
640	CNC HEADER PIPE DRILLING MACHINE 1:		4
		KW RPM	NO
	Spindle	37.0 4000	
	U-Axis	9.0 2000	
	Y-Axis	6.0 2000	
	Z-Axis	6.0 2000	
650	MODERN AUTOMATIC CNC CONTROLLED TUBE:		4
		KW RPM	NO
	Spindle motor	22.0 4000	

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660	PINES CNC-150 ROTARY BENDING MACHINE:			4 NO	
		KW	RPM		
	Hyd. Power pack motor-1	22.0	1450		
	Hyd. Power pack motor-2	22.0	1450		
670	PINES CNC-150 ROTARY BENDING MACHINE:			4 NO	
		KW	RPM		
	Hyd. Power pack motor-1	22.0	1450		
	Hyd. Power pack motor-2	22.0	1450		
680	INDOTECH DOUBLE COLOMN BANDSAW1050 1B:			4 NO	
	INDOTECH MAKE DOUBLE COLOMN BANDSAW 1050 -1B				
	1. SPINDLE MOTOR	18.50KW	1470 RPM		
	2. HYDRUALIC MOTOR	1400RPM	VOLTAGE:415V CURRENT4.70		
	3. COOLANT MOTOR	0.25KW	2900RPM		
	4. LUBRICATION MOTOR	0.25KW	1440RPM		
690	PIPE BENDING M/C PB600R:			4 NO	
		KW	RPM		
	Hyd. Power pack motor-1	30.0	1470		
	Hyd. Power pack motor-2	7.5	1450		
	Pusher motor (High Speed)	5.5	1445		
	Pusher motor (Low Speed)	4.0	1445		
700	CNC HEADER PIPE DRILLING MACHINE 2:			4 NO	
		KW	RPM		
	Spindle	37.0	4000		
	U-Axis	9.0	2000		
	Y-Axis	6.0	2000		
	Z-Axis	6.0	2000		
710	NEW PRESS - 8000T:			4 NO	
		NO.	RPM		KW
	Main motor pump	6	1486		132
	Aux motor pump	2	1486		132
	circulation pump motor	2	1470		30
	2-micro filter motor	1	1425		1.5
	control press pu motor	2	1485/min		55
	press holding pu motor	2	1485/min		75
	Hydraulic unit motor	4	1440		4
	tool shifting motor	2	1445/2.2min		5.5
	chiller pump motor	2	2900		5.5
cooling water motor	2	2850	2.2		

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720	40T LPG FURNACE-TPCS:				4 NO
		NO	RPM	KW	
	Bogie motor	1	950	15	
	FD Fan motor	2	1470	37	
	ID Fan motor	2	1455	9.3	
730	MEC-SHOT BLASTING MACHINE:				4 NO
		NO	RPM	KW	
	DUST collector - M11	1	1475	55	
	Rotary screen sepe M12	2	1425	3.7	
	bucket elevator-1 M14-15	2	1450	7.5	
	screw conveyor - M16-17	2	1455	5.5/7.5	
	screw conve long-M18-19	2	1455	5.5/7.5	
740	LONG SEAM GRINDING MACHINE-NEW:				4 NO
		NO	RPM	KW	
	grinding head MS 1050	1	2945	11	
	grinding head MS 500	1	2945	11	
	Horizontal feed motor	1	1420	1.1	
	vertical feed motor	1	1460	4	
750	TOS-KURIM DRUM EP MACHINE:				4 NO
		NO	RPM	KW	
	Spindle motor	2	4500	45	
760	JIER HBM:				4 NO
		NO	RPM	KW	
	Spindle Motor	1	1350	92	
	hydrostatic motor w51	1	1440	7.5	
	cooling oil recy	1	390	1.5	
	B/V axis hyd motor w50	1	1390	1.5	
	B - axis hyd motor w57	1	1390	1.5	
	Hyd. Pump station w54	1	1460	11	
770	WEILER DRILLING MACHINE:				4 NO
		NO	RPM	KW	
	Spindle motor	2	1450	15	
	Arm Up / Down motor	2	1500	7.5	
	Hyd. Motor for Headstock	2	915	0.75	
	Headstock travel motor	2	1350	0.18	
780	PRIMO SAW WELDING MACHINE:				4 NO
			RPM	KW	
	Boom up / down motor		1440	3.7	

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790	SRL COMPRESSOR-1: SRL 1 Compressor Motor: Make - BHEL BHOPAL Capacity - 610 KW Voltage - 11000V Speed - 2960 rpm	4 NO
800	SRL COMPRESSOR-2: SRL 2 Compressor Motor: Make - BHEL BHOPAL Capacity - 610 KW Voltage - 11000V Speed - 2960 rpm	4 NO
810	1010B CNC PIPE BENDING M/C: Hydraulic motor- 90kW/1490rpm Oil chiller motor- 0.75kW/1405rpm Carriage motor- 2.4kW/2400rpm Chuck rotation motor- 2.4kW/2400rpm .	4 NO
820	SYSTEM BENDER M/C-1,2: SYSTEM BENDER MACHINES -1,2 1.Hydraulic Power pack motor - 37 KW, 1465 RPM - 2 NOS 2.Oil circulation Pump - 2.2 KW, 1430 RPM - 2 NOS 3.Lubrication Motor - 2.2 KW, 1430 RPM. - 2 NOS	4 NO
830	PINES BENDING M/C-1,2,3: 1.Hydraulic Power pack motor - 24.2 KW, 1475 RPM - 6 Nos.	4 NO
840	ATCEP M/C-1: ATCEP -1 1.Hydraulic Power pack motor - 3 KW, 1430 RPM 2.Hydraulic Power pack motor - 4 KW, 1440 RPM 3.Cutting Wheel Motor - 11KW, 1465 RPM 4.Spindle Motor - 22KW, 1455 RPM - 2 NOS 5.Tube conveyor - 2.2KW, 2810 RPM -2 NOS 6.Transfer conveyor - 2.2 KW, 1410 RPM -3 NOS	4 NO

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850	8T CONT.DISCHARGE FURNACE-1: CDF -1 1.Cabin conveyor motor - 2.2 KW, 710 RPM 2.Conveyor motor - 5.5KW, 1430 RPM - 2 Nos 3.FD Fan motor - 55KW, 1475 RPM - 2 Nos.	4 NO
860	H.T. FURNACE CDF MODE: CDF -2 1.Conveyor motor - 7.5KW, 960 RPM - 2 Nos 2.FD Fan motor - 45KW, 2955 RPM - 2 Nos .	4 NO
870	ATCEP M/C-2: ATCEP -2 1.Hydraulic Power pack motor - 3 KW, 1430 RPM 2.Hydraulic Power pack motor - 4 KW, 1440 RPM 3.Cutting Wheel Motor - 11KW, 1465 RPM 4.Spindle Motor - 22KW, 1455 RPM - 2 NOS 5.Tube conveyor - 2.2KW, 2810 RPM -2 NOS 6.Transfer conveyor - 2.2 KW, 1410 RPM -3 NOS	4 NO
880	ATCEP M/C-3: ATCEP -3 1.Hydraulic Power pack motor - 3 KW, 1430 RPM 2.Hydraulic Power pack motor - 4 KW, 1440 RPM 3.Cutting Wheel Motor - 11KW, 1465 RPM 4.Spindle Motor - 22KW, 1455 RPM - 2 NOS 5.Tube conveyor - 2.2KW, 2810 RPM -2 NOS 6.Transfer conveyor - 2.2 KW, 1410 RPM -3 NOS	4 NO
890	ATCEP M/C-4: ATCEP -4 1.Hydraulic Power pack motor - 3 KW, 1430 RPM 2.Hydraulic Power pack motor - 4 KW, 1440 RPM 3.Cutting Wheel Motor - 11KW, 1465 RPM 4.Spindle Motor - 22KW, 1455 RPM - 2 NOS 5.Tube conveyor - 2.2KW, 2810 RPM -2 NOS 6.Transfer conveyor - 2.2 KW, 1410 RPM -3 NOS	4 NO

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900	CD FURNACE-8 TON-BLDG 117: 1.CHARGE TABLE DRIVE MOTOR- 2.2 KW, 940 RPM - 1 NO. 2.FURNACE ROLLER DRIVE MOTOR - 2.2 KW, 940 RPM - 1 NO. 3.DISCHARGE TABLE DRIVE MOTOR - 2.2 KW, 940 RPM - 1 NO. 4.CHARGE DOOR CONTROLLING MOTOR - 3.7 KW, 1430 RPM - 1 NO. 5.DISCHARGE DOOR CONTROLLING MOTOR - 3.7 KW, 1430 RPM - 1 NO. 6.FD Fan motor - 37 KW, 2955 RPM - 2 Nos. 7.ID Fan motor - 11 KW, 1450 RPM - 2 Nos.	4 NO
910	100 TON FURNACE:	4 NO
920	SAFOP PIPE CHAMFERING MACHINE CNC 600: i)Hydraulic pump motor- 3 ph AC induction motor/7.5kW/1440 rpm ii)Steady rest motor- 3 ph AC induction motor/5.5 kW/2920 rpm - 2 nos iii)Head stock movement motor- 1 ph AC induction motor/0.55kW/1390 rpm iv)Lubrication motor- 3 ph AC induction motor/1.1kW/1403 rpm	4 NO
930	COMPRESSOR HOUSE MOTORS: i)Air compressor motor- Input:11kV, 50Hz, 3 ph induction motor; 700HP/2970rpm - 2 nos ii)Cooling tower fan motor- 3 ph AC induction motor/3.75kW/720rpm - 2nos iii)Cooling tower fan motor- 3 ph AC induction motor/5kW/900rpm -2nos iv)Cooling water pump motor- 3 ph AC induction motor/22kW/2945rpm - 2 nos v)Seal air compressor motor- 3 ph AC induction motor/7.5kW/1440rpm vi)Auxiliary oil pump motor- 3 ph AC induction motor/1.5kW/1440rpm .	4 NO
940	CNC HB MACHINE BFT 110 4824-4295: CNC HORIZONTAL BORING MACHINE BFT-110 (4824-4295) HYDRAULIC MOTOR 1. Type Hx +112MBY KW 3.7/HP :5 Rpm 1425 2. M2 BA 100 CAY KW 2.2/HP3 Rpm 1430 3.ABB 3HBAOB Z002-HGB Kw 0.75/HP1 Rpm 1384	4 NO

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	<p>AXIS MOTOR X,Y,Z,U,V,B,W Siemens 1F K7103-5AC71-1G40 14.7A/36NM/n_max 5000/min 10.4A/23.0Nm/ m_n 2000/min</p> <p>SPINDLE MOTOR Siemens 1PH 7137-2NG02-OCA0 2000n_N 28Kw 60A</p>	
950	<p>WUHAN VTL MACHINE 4241-3801: WUHAN VTL machine</p> <ol style="list-style-type: none">1. Table hydrostatic pressure motor with flywheel 5.5KW 955RPM2. Table hydrostatic pressure variable speed motor 4.5KW 720RPM3. Oi film thickness motor 0.75kw 1400rpm4. Table clamping motor 2.2kw 1430 rpm5. Table lubrication motor 1.5 kw 1400rpm <p>Cross rail hydrostation</p> <ol style="list-style-type: none">1. The slippery pillow hydrostatic guideway motor 2.2 kw 1425 rpm2. To ram balance motor 4kw 1440rpm3. attachment tensioning cylinder head motor 3kw 1420 rpm4. Ram lubrication motor 1.5 kw 1400rpm5. cross rail guide lubrication 2.2 kw 1420rpm6. ram drive lubrication 1.5kw 1425rpm <p>Return table hydraulic station</p> <ol style="list-style-type: none">1. Filling pump motor 2.2 kw 940rpm: 2 Nos	4 NO
960	<p>WATERJET CUTTING MACHINE 2810-2698: Waterjet cutting machine</p> <ol style="list-style-type: none">1. Hydraulic motor 37 KW	4 NO
970	<p>HMT HB MACHINE 2867-4613: HMT HB Machine</p> <ol style="list-style-type: none">1. Hydraulic motor 11kw 1450 rpm and 0.75kw 1415rpm2. coolant motor 1.5kw 2880rpm and 2.25kw 2800rpm <p>SCOPE OF CONTRACT FOR CONDITION MONITORING - PHASE-B (For all 97 machines)</p>	4 NO

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<p><u>SCOPE OF WORK for Item Sl no. 1:</u></p> <ol style="list-style-type: none">1) Identification of Vibration measurement locations on all machines as per list.2) Carry out Vibration measurement in the Horizontal, Vertical and Axial directions at each selected bearing locations, as feasible and acceleration readings wherever required.3) Based on the preliminary vibration readings, the contractor should guide BHEL to carry out minor correction works, wherever required and then the final readings to be taken for records.4) Wherever unbalancing is noticed, the same should be corrected immediately at extra cost as per Scope-2, provided the machine is spared by BHEL for rectification. If machine is not free, then the dynamic balancing to be done on another day, for which the date of sparing the machine will be intimated to the Contractor one week in advance.5) Plot Vibration profiles and carry out frequency analysis.6) Classify the machine health condition as -Normal, -Marginal, - Critical/Danger.7) Interpret the vibration data and identify the defects and inaccuracies in each machine.8) Contractor to present the preliminary report on next day after completion of monitoring in each building/area to the respective area representative.9) Contractor has to stay two more days after carrying out all vibration monitoring for presenting the consolidated preliminary report on first day consisting of all marginal and critical identified points with area executives. In case of any discrepancies, Contractor shall guide BHEL to carry out the corrective action wherever required on next day.10) Contractor to submit detailed report on the measured vibration data, data analysis, Maintenance actions, Corrections required/to be done for each machine as per the format provided by BHEL (Both Hard copy & Soft copy). Contractor is required to submit the report within 15 days after completion of monitoring.11) Contractor should depute competent person to interpret the readings on the spot and clarify all queries regarding vibration monitoring. <p>NOTE:</p> <ol style="list-style-type: none">1) Summary report for all the machines: The summary report shall be addressed with the following datas.<ol style="list-style-type: none">a) Sl.No.of the Machineb) Machine descriptionc) Machine No.d) Health Condition- Critical/Normal/Marginal.	
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2. INSITU DYNAMIC BALANCING:

Sl. no	SCOPE OF WORK	QTY
10	<p><u>In-situ Dynamic balancing</u></p> <p>1)Carry out In-situ Dynamic Balancing on machines based on the findings of scope-1. 2)Guide BHEL to carry out corrective action on the machine. 3)Submit the report about the balancing details before and after balancing the equipment, in hard and soft copy. 4)Apart from regular scheduled condition monitoring activity, vendor may be sometime asked to come for balancing work of any particular machine, as when required. In such condition vendor has to come and attend the issues whenever called upon to do so.</p> <p>NOTE:</p> <p>1)The rate that is offered should be comprehensive and no separate charges will be made towards expenses like travel, boarding and lodging. 2)Condition monitoring of all machines shall be done in one visit.But during the visit, if any machine is under breakdown, such machines may not be spared for condition monitoring. In such case, bill shall be claimed only for those machines for which the monitoring is done. 3)The period of the contract is 2 years,the frequency of monitoring is considered 2 times per year. 4)Though unit rate has been called for each machine or per machine as the case may be, the total charges for all the two scopes per visit will be considered for finalising the contract as combined L1 package basis and order will be given to single contractor for both the items. 5)All the monitoring instruments/equipments required for the work should be brought by the Vendor. 6)The broad details regarding each machine are provided. This is only to estimate the magnitude of work involved based on the machine size. The vendor may visit BHEL and see the concerned machines also, before submitting the offer. 7)Contractor should take vibration readings of all identified monitoring locations irrespective of depth and heights. 8)The broad motor details regarding the machines is given only to estimate the magnitude of work involved based on the machine size.However the vibration readings to be taken for the entire sub-systems available in the machine and not the motor alone. 9)The consolidated report in 3 parts as stated in Point(8)-one hard copy and one soft copy should be submitted positively within 15 days from the date of completion of monitoring at BHEL. 10)The report should have the details on vibration readings, analysis, corrective actions required,trend chart,etc.and report should be submitted in 3 partd not the motor alone. 9)The consolidated report in 3 parts as stated in Point(8)-one hard copy and one soft copy should be submitted positively within 15 days from the date of completion of monitoring at BHEL. 10)The report should have the details on vibration readings, analysis, corrective actions required,trend chart,etc.and report should be submitted in 3 parts as per BHEL format vide (1)Summary report, (2)Detailed analysis report and (3)Trend Chart</p>	15 NO

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GENERAL TERMS AND CONDITIONS FOR M&S MECHANICAL CONTRACTS

- 1) The workmen of contractor should be covered under PF/ESI, etc as per labour laws.
- 2) Safety precautions have to be ensured by the Contractor Depending on the work nature. Necessary work permit system and personal protective equipments (PPE) such as electrical resistance rubber gloves, helmet, spectacle goggles, safety shoes, safety belt etc. as applicable to Mechanical works should be adhered while carrying out the work.
- 3) PPES for appropriate trade job has to be ensured by the contractor at the job site at all times.
- 4) The contractors may visit the area to assess the quantum of work before quoting.
- 5) The contractor should mention the point to point confirmation.
- 6) Contractor should commit for Terms and Conditions of the enquiry otherwise the offer shall be liable for rejection.
- 7) **TWO PART BID SYSTEM:** Contractor should send their offer for two part bid system as below
- 8) Documents submitted with the offer shall be signed and stamped in each page by authorized representative of the bidder.
- 9) Contractor must get acquaintance with quantum of day to day work by visiting BHEL Trichy premises before quoting.
- 10) The contractor should quote the exact time required to complete the work in their offer.

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.

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

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

h) 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.

OPENING OF TENDERS:

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

SERVICE TAX:

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

LD CLAUSE :

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

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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COMMERCIAL TERMS AND CONDITONS FOR M&S MECHANICAL CONTRACTS

- 1) 100% payment will be made after completion of entire work on submission of invoice in triplicate duly certified by Area In – charge.
- 2) Attendance register should be maintained.
- 3) EMD is to be submitted and is to be remitted in cash (as permissible under Income Tax Act)/Electronic Fund Transfer credited in BHEL account before tender opening or Banker's cheque/Pay order/Demand Draft in favour of M/S BHEL Trichy along with offer. **Offers without EMD shall be liable for rejection.**
- 4) 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.
- 5) An additional payment as per circular ref. BHE/HR/W/EW/08.04.2014 is to be paid to the contract workmen as below, over and above the minimum wages prescribed by the government of Tamilnadu:

Unskilled	-	Rs.3200/-
Semiskilled	-	Rs.3700/-
Skilled	-	Rs.4100/-
- 6) Bonus @ 8.33 % to workmen to be paid.
- 7) **Rate should be quoted as per price bid.**
- 8) Taxes if any will be mentioned separately in the offer.
- 9) The rate that is offered should be comprehensive and no separate charges will be made towards expenses like travel, boarding and lodging.
- 10) The contractor should quote the validity of the offer.
- 11) If two or more vendors offer the same rate, negotiation will be conducted separately.

Sign & Seal of Contractor

Certificate by Chartered Accountant on Letter Head

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

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

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

₹ _____ Lacs

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

₹ _____ Lacs

(Strike off whichever is not applicable)

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

Or

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

Date:

(Signature)

Name:

Membership number:

Seal of Chartered Accountant

SCHEDULE FOR PRICE BID

Sub: **SERVICE CONTRACT FOR CONDITION MONITORING-PHASE-B – Reg.**

Ref: Enquiry no: 9241600175 Dated 28/11/2016. Due date: 30/12/2016, 14.00 Hrs.

1) CONDITION MONITORING: PHASE B MACHINES

Sl. No	Description	Qty	UOM	Rate	Value
10	S-3150 HVY DUTY CENTER LATHE:4167-0350	4	NO		
20	100T FURNACE: 1524-0207	4	NO		
30	300T FURNACE: 1593-2238	4	NO		
40	150T FURNACE: 1592-2237	4	NO		
50	2000T PRESS: 3215-0092	4	NO		
60	8000T PRESS: 3218-2285	4	NO		
70	PTC400 - DEEP HOLE BORING M/C: 4388-0107	4	NO		
80	SK50 - VERTICAL BORING M/C: 4241-0001	4	NO		
90	SK25 - VERTICAL BORING M/C: 4232-0014	4	NO		
100	ROTOBLAST MACHINE	4	NO		
110	COOPER BORING M/C (CVBM): 4234-2400	4	NO		
120	HB 627 - CNC HOR. BORING M/C: 4838-3503	4	NO		
130	STC-25 CNC SLANT BED LATHE: 4474-2833	4	NO		
140	STC-25 CNC SLANT BED LATHE: 4474-2874	4	NO		
150	L-45 CNC LATHE: 4145-3501	4	NO		
160	WSU-18 CNC LATHE: 4479-3241	4	NO		
170	ST-15 CNC LATHE: 4478-3237	4	NO		
180	VDF CNC LATHE: 4477-2232	4	NO		
190	ECONO CNC 26 CENTRE LATHE: 4473-2845	4	NO		
200	SB CNC 35 SLANT BED LATHE: 4478-2834	4	NO		
210	SB CNC 35/2000 LATHE: 4472-2357	4	NO		
220	MDW20 CNC LATHE: 4476-2861	4	NO		
230	HMC-800 CNC MACHINING CENTRE: 4806-2933	4	NO		
240	SKIQ-12 CNC BORING MACHINE: 4282-2929	4	NO		
250	SIZING AND SQUEEZING FURNACE-BAY 3	4	NO		
260	SIZING AND SQUEEZING FURNACE-BAY 4	4	NO		

270	NEW ATCEP- TUBE EP M/C: 5959-3493	4	NO		
280	AIR BLOWER - III (GAS PLANT)	4	NO		
290	ID FAN - I (GAS PLANT)	4	NO		
300	FD FAN - I (GAS PLANT)	4	NO		
310	BR-6 CNC DRILLING MACHINE:4659-2770	4	NO		
320	CNC HB MACHINE BMT 150 4802-4505	4	NO		
330	SKS-25 VERTICAL BORING M/C: 4523-2927	4	NO		
340	W100A HORIZONTAL BORING M/C: 4821-3096	4	NO		
350	W100A HORIZONTAL BORING M/C: 4821-3255	4	NO		
360	WKV100 JIG BORING M/C: 4717-0468	4	NO		
370	3V1000 CNC DRILLING M/C: 4762-0099	4	NO		
380	VA 50 CNC VMC: 4285-2923	4	NO		
390	SL 30 CNC LATHE : 44724204	4	NO		
400	SB CNC 35/1250 LATHE: 4472-2408	4	NO		
410	BMT 150 -HORIZONTAL BORING: 48024753	4	NO		
420	HMC1250 HORIZON.MACHINING CENTRE48084288	4	NO		
430	SPECTRATURN 15CNC SB LATHE:4478-3232	4	NO		
440	SPECTRATURN 15CNC SB LATHE: 4478-3256	4	NO		
450	VMC-1250VERTICAL MACHINIG CENTRE42874297	4	NO		
460	SACEM CNC HMC -MSMG125CN: 4807-2935	4	NO		
470	OD WELDING M/C -CAYUGA: 2896-2114	4	NO		
480	50T FURNACE: 1523-0206	4	NO		
490	10T FURNACE (1522-0205)	4	NO		
500	OD-II AUTO WELDING ESAB: 2896-3230	4	NO		
510	WD-160 HORIZONTAL BORING: 4828-0047	4	NO		
520	ITL BAND SAW: 5967-3510	4	NO		
530	SAFOP PIPE CHAMF. M/C BAY11: 4396-2095	4	NO		
540	Y-1197 HORIZONTAL BORING &MILLING M/C	4	NO		
550	INDUCTION PR. WELDER IPW-1: 2988-0042	4	NO		
560	INDUCTION PR. WELDER IPW-2: 2988-0101	4	NO		

570	DEUMA FLAT FIN WELDING M/C: 2889-2139	4	NO		
580	SWAGING FURNACE	4	NO		
590	KKK AUTOMATIC TUBE CUTTING AND EDGE PREP	4	NO		
600	600TON GOOSE NECK PRESS (BAY-2)	4	NO		
610	TRAVELLING COLUMN RADIAL DRILLING MACHIN	4	NO		
620	TRAVELLING COLUMN RADIAL DRILLING MACHIN	4	NO		
630	INDOTECH MAKE DOUBLE COLOMN BANDSAW	4	NO		
640	CNC HEADER PIPE DRILLING MACHINE 1	4	NO		
650	MODERN AUTOMATIC CNC CONTROLLED TUBE	4	NO		
660	PINES CNC-150 ROTARY BENDING MACHINE	4	NO		
670	PINES CNC-150 ROTARY BENDING MACHINE	4	NO		
680	INDOTECH DOUBLE COLOMN BANDSAW1050 1B	4	NO		
690	PIPE BENDING M/C PB600R	4	NO		
700	CNC HEADER PIPE DRILLING MACHINE 2	4	NO		
710	NEW PRESS - 8000T	4	NO		
720	40T LPG FURNACE-TPCS	4	NO		
730	MEC-SHOT BLASTING MACHINE	4	NO		
740	LONG SEAM GRINDING MACHINE-NEW	4	NO		
750	TOS-KURIM DRUM EP MACHINE	4	NO		
760	JIER HBM	4	NO		
770	WEILER DRILLING MACHINE	4	NO		
780	PRIMO SAW WELDING MACHINE	4	NO		
790	SRL COMPRESSOR-1	4	NO		
800	SRL COMPRESSOR-2	4	NO		
810	1010B CNC PIPE BENDING M/C	4	NO		
820	SYSTEM BENDER M/C-1,2	4	NO		
830	PINES BENDING M/C-1,2,3	4	NO		
840	ATCEP M/C-1	4	NO		
850	8T CONT.DISCHARGE FURNACE-1	4	NO		
860	H.T. FURNACE CDF MODE	4	NO		

870	ATCEP M/C-2	4	NO		
880	ATCEP M/C-3	4	NO		
890	ATCEP M/C-4	4	NO		
900	CD FURNACE-8 TON-BLDG 117	4	NO		
910	100 TON FURNACE	4	NO		
920	SAFOP PIPE CHAMFERING MACHINE CNC 600	4	NO		
930	COMPRESSOR HOUSE MOTORS	4	NO		
940	CNC HB MACHINE BFT 110 4824-4295	4	NO		
950	WUHAN VTL MACHINE 4241-3801	4	NO		
960	WATERJET CUTTING MACHINE 2810-2698	4	NO		
970	HMT HB MACHINE 2867-4613	4	NO		
TOTAL VALUE (ITEM SL.NO-1)					
<u>2) INSITU DYNAMIC BALANCING</u>					
10	INSITU DYNAMIC BALANCING	15	NO		
TOTAL VALUE (ITEM SL.NO-1 + ITEM SL.NO-2)					

❖ **Taxes if any should be quoted extra**

- 1) Payment terms: Payment will be made after completion of work on pro rata basis on submission of invoice in triplicate duly certified by Engineer In Charge.
- 2) Tax deduction will be made from the every bill at the prevailing rate as per the Government rule and regulation from time to time.
- 3) Detailed scope of work and other terms and conditions are specified in the Technical Bid of the Tender.
- 4) **Cumulative L1 will be considered for above all (For ITEM SL.NO-1 & ITEM SL.NO-2)**

Sign & Seal of Contractor