

# BHARAT HEAVY ELECTRICALS LIMITED

(A Govt.of India Undertaking)

High Pressure Boiler Plant, Tiruchirappalli 620 014, India

**MAINTENANCE & SERVICES DEPARTMENT**

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



ISO 9001

ENQ No: 9241700008

23.03.2017

## NOTICE INVITING TENDER

Sub: **AMC FOR CLEANING WORKS IN BUILDING 1 & UNIT-II– Reg.**

Ref: Enquiry no: 9241700008 Dated 23/03/2017. Due date: 31/03/2017, 14.00 Hrs.

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

- 1) EMD cover shall contain requisite **EMD of Rs.16,800/-** 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.16,800/-** shall reach the office of the undersigned on or before 31/03/2017 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.

# BHARAT HEAVY ELECTRICALS LIMITED

(A Govt.of India Undertaking)

High Pressure Boiler Plant, Tiruchirappalli 620 014, India

**MAINTENANCE & SERVICES DEPARTMENT**

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



ISO 9001

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

# BHARAT HEAVY ELECTRICALS LIMITED

(A Govt.of India Undertaking)

High Pressure Boiler Plant, Tiruchirappalli 620 014, India

**MAINTENANCE & SERVICES DEPARTMENT**

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



ISO 9001

## NOTICE INVITING TENDER

01.	Name of work	<b>AMC FOR CLEANING WORKS IN BUILDING 1 &amp; UNIT-II</b>
02.	Earnest Money Deposit	Rs.16,800/-
03.	Duration of the contract	1 Year (From the date of commencement of the work)
04.	Last Date for Receipt of Tender	14.00 Hrs on 23/03/2017
05.	Date of Technical Bid Opening	14.30 Hrs on 31/03/2017
05.	Date of Price Bid Opening	Will be intimated to those who are Qualified separately.
07.	Guarantee Period	Not applicable

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

Tender document contains 17 Pages (Technical Bid – 16 Pages, Schedule for price bid – 01 page).

ISSUING OFFICER

Sign & Seal of Contractor

# BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

High Pressure Boiler Plant, Tiruchirappalli 620 014, India

**MAINTENANCE & SERVICES DEPARTMENT**

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



ISO 9001

## TECHNICAL BID

NAME OF THE WORK: **AMC FOR CLEANING WORKS IN BUILDING 1 & UNIT-II**

Enquiry no: 9241700008 Dated 23/03/2017. Due date: 31/03/2017, 14.00 Hrs.

### PRE-QUALIFICATION CRITERIA

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

Sl. No	Description	Vendor to confirm
1	Only those BIDDER/SERVICE PROVIDER, who have minimum experience in executing Maintenance Contract involving Oil management and Cleaning/ 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. 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 <a href="http://www.bhel.com">http://www.bhel.com</a> and shall immediately bring to the notice of BHEL management about any fraud or suspected fraud as soon as it comes to their notice.	

Sign & Seal of Contractor

# BHARAT HEAVY ELECTRICALS LIMITED

(A Govt.of India Undertaking)

High Pressure Boiler Plant, Tiruchirappalli 620 014, India

**MAINTENANCE & SERVICES DEPARTMENT**

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



ISO 9001

## 1) Cleaning & PM of Rotators Bay 1 to 12:

Sl.no	SCOPE OF WORK	QTY
<b>C1</b>	<p><b>Cleaning and Tightening work in Welding Rotators/ Manipulators and Dip trollies in Bay 1-12,1A &amp; 1B /Bldg.-1:</b></p> <p><b>Scope of work for Rotators and Steady Rest:</b></p> <p>No of Welding Rotator and Steady rest to be attended per month:</p> <p>Welding Rotators: 16 Nos. Steady rests: 34 Nos.</p> <ol style="list-style-type: none"><li>1. Clean the entire rotator free of dust, slag etc using air blowing and then by cotton waste and kerosene.</li><li>2. Check the tightness of all fasteners in rotators (in gear box mounting, roller mounting, motor mounting, covers etc), If any fastener is found damaged/missing, it is to be replaced with new fasteners after suitably removing the damaged ones.</li><li>3. Check the condition of drive chains and provide assistance to MMO staff during chain adjustment. Check the condition of couplings for the alignment, availability of rubber bushes, coupling bolts, etc and tightness of fasteners and carry out the correction work wherever required.</li><li>4. Check the availability of lubrication oil in all gearboxes / Worm reducers and top up the same to maintain the oil level. Apply grease wherever required as per instruction of the supervisor in charge.</li><li>5. Check the availability of covers &amp; earth clamps in rotators and inform the MMO supervisor. If any damages found, the contractor should give assistance for MMO staff to carry out the corrective actions.</li><li>6. Check the condition of all rollers in the rotators. If any jerk or noise is found while rotator movement, the same thing should be informed to MMO supervisor. If any damages found, the contractor should give assistance for MMO staff to carry out the corrective actions.</li></ol>	<b>12 Cycles</b>

Sign & Seal of Contractor

# BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

High Pressure Boiler Plant, Tiruchirappalli 620 014, India

**MAINTENANCE & SERVICES DEPARTMENT**

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



ISO 9001

7. Check the condition of bearings after removing the end covers and lubricate the same with grease. If any bearing is found damaged, the contractor should give assistance to our MMO employee for changing the bearings.

**Note:**

a) Point Nos. (1) to (5) to be attended once in a month as per schedule between 1st and 15th of the month positively.

b) Point No. (6) & (7) are to be attended as and when required depends on the condition, as per instruction of the supervisor incharge.

**Scope of work for Dip Trolley maintenance:**

No of dip trollies to be attended per month: 5 Nos.

Total No of dip trollies available: 20Nos. All this 20 Nos to be covered once within 4 Months.

1. Clean the entire Trolley free of dust, by cotton waste and then by kerosene if required.
2. Check for tightness of all fasteners in the trolley (roller mounting, wheel covers etc). If any fastener is found damaged / missing, it is to be replaced with new fasteners after suitably removing the damaged ones.
3. Check the condition of bearings after removing the end covers and lubricate the same with grease. If any bearing is found damaged, the contractor should give assistance to our MMO employee for changing the bearings.
4. Check the condition of Wheel guards and ensure its position.
5. Check the condition of trolley structural, if any damage is found the same to be informed to MMO supervisor. Also the contractor should give assistance manpower during rectification work by MMO staff.
6. In required Painting of all the trolley to be done once for the whole cycle as per the instruction of MMO supervisor for which supply of paint will be BHEL scope.

**Note:**

A) Contractor shall maintain a log book to record the work done and submit it daily during the work to the MMO supervisor in charge as per the format given by BHEL.

B) All the consumables, replaceable spares, any special tools required to carry out the above work will be provided by BHEL free of cost.

Sign & Seal of Contractor

# BHARAT HEAVY ELECTRICALS LIMITED

(A Govt.of India Undertaking)

High Pressure Boiler Plant, Tiruchirappalli 620 014, India

MAINTENANCE & SERVICES DEPARTMENT

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



ISO 9001

## 2) ANNUAL CLEANING & MAINTENANCE:

Sl.no	SCOPE OF WORK	QTY
D1	<p><b>ANNUAL CLEANING AND MAINTENANCE OF VARIOUS SYSTEMS IN GAS SERVICE SUCH AS COMPRESSED AIR, OXYGEN, ARGON AND GAS PIPELINES IN UNIT II AND LPG YARD MAINTENANCE AT MHD COMPLEX AS PER THE SCOPE GIVEN BELOW.</b></p> <ol style="list-style-type: none"><li>1. Periodical Cleaning,flushing,descaling and washing of cooling water system including pipe line,valves,fills and tanks in Compressor House / Unit II.</li><li>2. Assistance in doping the cooling water system, to clean valves and to arrest water leaks.</li><li>3. Draining of condensate drop points throughout the compressed air pipe line of BHEL Unit-II periodically.</li><li>4. Cleaning the various filters (Air, Oil and Water) of equipments in Gas Services periodically.</li><li>5. Assistance in arresting leaks in Compressed Air Pipe Line System,oxygen pipe line system, Argon and LPG Pipe Line system.</li><li>6. Cleaning and maintenance of the lubrication system of equipments fairly without any oil traces.</li><li>7. Assistance to BHEL persons for changing the worn out/damaged components such as hoses, valves, pipe fittings, etc to arrest leaks</li><li>8. Cleaning of all equipments in LPG Yard periodically.</li><li>9. Assistance to BHEL persons in cleaning of valves and to arrest water leaks in the sprinkling water system in LPG yard.</li><li>10. Cleaning and maintenance of the lubrication system of equipments fairly without any oil traces in LPG yard.</li><li>11. Cleaning of preheating LPG Burners in Unit-II</li><li>12. Assistance to BHEL persons in cleaning and maintenance of all gas pipelines in the furnace and equipments in the Gas valve train line and arresting the leaks, if any.</li><li>13. Cleaning the LPG yard and its surrounding (removal of unwanted material in the yard premises) has to be done periodically and regularly.</li><li>14. All wastes and debris generated out of the above work has to be properly collected and disposed at identified disposal points.</li><li>15. The contractor shall also provide experienced welder/fitter/Painter as per Instructions by the BHEL supervisor.</li><li>16. Painting of equipments, pipelines,marking work in the ground floor/pipe line should be carried out whenever required as per the instruction of BHEL supervisor.</li><li>17. The contractor shall mobilize required manpower on all the working days, including Sunday's and Holidays (if required)</li><li>18. Attendance record for daily manpower, daily log for equipment cleaning, oil filled/changed/top-up details in each equipment is to be recorded in log book, maintained and to be signed by corresponding Gas Services Supervisors.</li><li>19. Area Maintenance Executive shall review the records periodically.</li><li>20. All the above work is to be carried out as per the specific instructions of BHEL Gas Services Supervisor.</li><li>21. The contractor shall monitor the work of his labours periodically and should continuously be in touch with the Gas Services Supervisor / Executive for periodic review.</li></ol>	8 CY

Sign & Seal of Contractor

# BHARAT HEAVY ELECTRICALS LIMITED

(A Govt.of India Undertaking)

High Pressure Boiler Plant, Tiruchirappalli 620 014, India

**MAINTENANCE & SERVICES DEPARTMENT**

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



ISO 9001

## **EQUIPMENT DETAILS IN GAS SERVICE-UNIT II:**

1. LIQUID OXYGEN VESSEL OF 13 KL CAPACITY with Vaporizer and piping system.
2. LIQUID ARGON VESSEL OF 13 KL CAPACITY with Vaporizer, Gas mixer unit and Piping system.
3. 2 NO'S OF LPG STORAGE VESSEL OF 50 MT CAPACITY with vaporizers and other associated equipment's including piping system.
4. FURNACES:CDF-I, CDF-II, CDF-III, 10 TON,100 TON FURNACE AND 10 TON FURNACE
5. 3000 CFM CENTRIFUGAL AIR COMPRESSOR - 2 NO'S
6. SEAL AIR COMPRESSOR - 1 NO
7. COOLING TOWERS - 4 NO'S
8. COOLING WATER PUMP - 2 NO's

## **LUBE OIL SYSTEM DETAIL IS GIVEN BELOW:**

### **Equipment Type Oil Grade Tank Capacity**

Centrifugal Air Compressor - 1 ISO VG32 250 Litres

Centrifugal Air Compressor - 2 ISO VG32 250 Litres

Seal Air Compressor - SP 150 10 Litres

Cooling Water Pump 1 and 2 - SAE20W40 3 Litres

**Delivery Schedule of work:** The above work shall be completed covering the compressor's and various Gas Services systems (i.e. oxygen storage vessel and Argon Storage vessel) and LPG yard/MHD complex which is considered as one cycle/1.5 month. Additional manpower shall be deployed by the contractor as per the requirements for the above work during emergency requirements. If the nature of certain works involve the need to work on Sunday /Holiday, the workers may work on Sunday/Holiday as per requirement.

**Total No of cycles in a year : 8**

## **BHEL SCOPE OF SUPPLY:**

BHEL shall provide the following free of cost:

1. Handling facility like trolley/Jumbo for movement of barrels and materials.
2. Required consumables like cotton waste, kerosene, dungry cloth ,fasteners, etc.,
3. Oil filtering equipment for filtering and cleaning the oil.
4. Respective grade of oil, grease for oil top will be given.
5. All necessary Hand tools and accessories for arresting oil, water, air oxygen leak shall be provided by the BHEL.
6. Paints, thinner, paint brush and all other necessary painting equipments will be provided to the contractor for executing the work.
7. All necessary non sparking handtools, and accessories for arresting LPG leak, water leaks and carrying out the maintenance activity in the LPG Yard shall be provided by the BHEL.

Sign & Seal of Contractor

# BHARAT HEAVY ELECTRICALS LIMITED

(A Govt.of India Undertaking)

High Pressure Boiler Plant, Tiruchirappalli 620 014, India

MAINTENANCE & SERVICES DEPARTMENT

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



ISO 9001

## 3) CLEANING & OIL TOP UP OF THE M/C's:

Sl.no	SCOPE OF WORK	QTY
E1	<p><b>HYDRAULIC AND LUBRICATION OIL TOP UP IN ALL THE THE MACHINES,GREASING OF MACHINES/FACILITIES AND CLEANING OF HYD/LUB SYSTEMS AT UNIT -II WHICH INCLUDES BLDG NO-107, 108, 117 and 123 (ATP Shop) AS PER THE SCOPE GIVEN BELOW:</b></p> <ol style="list-style-type: none"><li>1. Cleaning and Lubrication of the hydraulic system of described machines fairly without any oil traces.</li><li>2. Providing Labour Assistance for changing the worn out/damaged components such as oil hoses, valves, high pressure pipe fittings, etc to arrest oil leak.</li><li>3. The Contractor labour shall assist for general maintenance related activities.</li><li>4. Oil top up/change with proper grade of oil in the respective hyd/lub.tanks.</li><li>5. The Greasing points of machines/facilities is around 590 nos.</li><li>6. Maintaining records for oil Top-up/change of oil.</li></ol> <p><b>The following activities are to be carried out by the contractor for the above scope:</b></p> <ol style="list-style-type: none"><li>1. Cleaning all Lubrication and hydraulic tanks, cleaning in and around the machines without oil traces. For each and every machine corresponding hydraulic tanks outside surface, power pack outside surface and Oil control Valves must be cleaned thoroughly.</li><li>2. All leakage oil shall be collected from machine bottom cellar and pits. The unusable Collected oil shall be stored in separate drums mentioning the oil grade which is to be send for reclamation / disposal stores. Machine bottom floor, facility bottom floor and Hyd power pack surrounding area shall be cleaned.</li><li>3. All the leakage points like leak in joints, valves, pump gland, power pack tank flange joints, etc in hydraulic and lubrication system, hydraulic power pack shall be identified during day to day cleaning and informed to the MMO supervisors and note down in the oil log book for arresting the leakage.</li></ol> <p>Fitter with minimum qualification of 10<sup>th</sup> std, who shall be able to differentiate various grade of oil (like Spin12, SS 32, SS 46, SS 68, SS 320 and lubricating oil) shall be provided to arrest oil leak with MMO fitter.</p> <ol style="list-style-type: none"><li>4. All machines shall be checked for correct oil level and filling/ topping up to be done in a periodical manner.</li><li>5. Changing of Hydraulic and lubricating oil grade is to be decided by MMO supervisors as per requirement. To change/replace the lub/hyd.oil, the existing oil shall be completely removed and filled in the separate barrels.The hydraulic tank inside, filters and oil level indicators are to be cleaned with dungry cloth and not by cotton waste. Correct grade fresh oil shall be filled up, up to the required level. All top cover of hydraulic /Lub.oil tanks shall be properly tightened with screws.</li></ol>	8 CY

Sign & Seal of Contractor

# BHARAT HEAVY ELECTRICALS LIMITED

(A Govt.of India Undertaking)

High Pressure Boiler Plant, Tiruchirappalli 620 014, India

**MAINTENANCE & SERVICES DEPARTMENT**

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



ISO 9001

6. In the similar way, change of oil /oil top-up shall be done for all gear boxes in the machines facilities area.
7. Empty oil drums must be filled with right grade of used oil and sent to reclamation/disposal stores accordingly.
8. Movement of oil barrels from inflammable stores to Unit- II MMO (Bldg.107, 108,117 and 123 - ATP Shop) and movement of unusable collected oil to Reclamation/disposal store with contractor's manpower.
9. Oil storage area is to be properly cleaned and Empty and full barrels are to be stacked in the respective marked area, stacking the used oil in a separate place as per the instruction of MMO Supervisor.
10. All greasing points in the plummer blocks, pillow blocks, guide ways, machines greasing points are to be filled with necessary grade of grease by manually using grease gun .The greasing scheduling is to be done as per instruction of MMO supervisor.
11. Attendance record for daily manpower, daily log for machine oil /facility cleaning, oil filled/changed/top-up details in each machine is to be recorded in log book, maintained and to be signed by corresponding MMO Supervisors. The MMO supervisor shall maintain a logbook regarding oil receipt,daily consumption and balance of respective grade of oil .
12. Area Maintenance Executive shall review the records periodically.

#### **BHEL SCOPE OF SUPPLY:**

BHEL shall provide the following free of cost:

1. Handling facility like trolley for movement of barrels.
2. Required consumables like cotton waste, kerosene, dungry cloth, fasteners,etc .
3. Oil filtering equipment for filtering and cleaning the oil.
4. Respective grade of oil,grease.
5. All necessary Hand tools for arresting oil leak (Like Spanner set, Pipe rinches, Allen Key set, screw Spanners) will be provided by BHEL.

#### **Delivery Schedule of work:**

The above work shall be completed within 1.5 Month covering all 66 machines listed below which is considered as one cycle. 8 such cycles will be carried out in one year. For which required manpower should be deployed in all working days.

Based on need and requirement (nature of certain works involve the need to work on Sunday\Holiday) the Contractor shall deploy manpower on Sunday\Holidays also.

Manpower shall be deployed by the contractor as per the requirements for the above work during emergency requirements.

Total No of cycles: 8

Period of contract is one year.

Sign & Seal of Contractor

# BHARAT HEAVY ELECTRICALS LIMITED

(A Govt.of India Undertaking)

High Pressure Boiler Plant, Tiruchirappalli 620 014, India

MAINTENANCE & SERVICES DEPARTMENT

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



ISO 9001

## NOTE:

1. The area MMO supervisor /Executive shall issue the lubrication schedule to the contractor.
2. In case of emergency, the contractor shall top up oil wherever required by the maintenance supervisor.
3. NO MACHINE SHALL BE IDLE FOR WANT OF OIL AT ANY POINT OF TIME.IT IS THE RESPONSIBILITY OF CONTRACTOR.
4. All Safety precautions should be strictly adhered while executing the work.
5. Area MMO supervisor get clearance from the machine operator/production supervisor for cleaning of machine/facilities and allocate the contractor personnel for cleaning the work.

**MACHINE TYPE, HYD AND LUB SYSTEM DETAIL IS AS BELOW:**

## Group I High Bay A (Build-107):

S. NO	MACHINE TYPE	BAY	OIL GRADE	TANK CAPACITY
1	ATCEP I	Bay A	S.S 46/S.P12	125 L/10L
2	ATCEP II	Bay A	S.S 46/S.P12	125 L/10L
3	NEW ATCEP III	Bay A	S.S 46/S.P12	125 L/10L
4	STBW I along with RTR	Bay A	S.s 68/S.P12	300 L/10L
5	STBW II (24m-Bay3)	Bay A	S.S 68/S.P12	300 L/10L
6	STBW III(72m-Bay5)	Bay A	S.S 68/S.P12	600 L/20L
7	STBW IV (60m- Bay5)	Bay A	S.S 68/S.P12	75 L/10L
8	Swaging and Upsetting	Bay A	S.S 68/S.P12	1400 L/10L
9	NEW MCO (Tube EP Machine	Bay A	S.S 46	150 L
10	Tube Roto Blast Sattion I	Bay A	S.S 320/S.P12	100 L/10L
11	Roto Blast Sattion(NEW)II	Bay A	S.S 46	100 L

**Note:** STBW machine in bay 1,3 and 5 is with the RTR tube handling system which has to be included.

Sign & Seal of Contractor

# BHARAT HEAVY ELECTRICALS LIMITED

(A Govt.of India Undertaking)

High Pressure Boiler Plant, Tiruchirappalli 620 014, India

MAINTENANCE & SERVICES DEPARTMENT

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



ISO 9001

## Group II Bay 1 to 5 (Build-107):

S.NO	MACHINE TYPE	BAY	OIL GRADE	TANK CAPACITY
1	20 Torch MPM	Bay 1	S.S 32/320	100 L/180L
2	NEW 20 Torch MPM	Bay 2	S.S 32/320	100 L/180L
3	Panel Bending	Bay 2	S.S 46	1050L
4	Cont. Discharge Furnace	Bay 2	S.S 320	100 L
5	Hydraulic Pullout	Bay 2	S.S 68	250 L
6	Vertical Offset Press	Bay 3	S.S 68/S.P12	800 L/10L
7	Tube squeezing and Sizing press	Bay 3	S.S 46	175 L
8	CCW-CNC Tube Bending(Pines)	Bay 3	S.S 68	800 L
9	CW-CNC Tube Bending (Pines)	Bay 3	S.S 68	800 L
10	High Temperature Furnace	Bay 4	S.S 320	100 L
11	CNC HERBER	Bay 4	S.S 68	410 L
12	Tube squeezing and Sizing press	Bay 4	S.S 46	175 L
13	CW-CNC Tube Bending (Pines)	Bay 4	S.S 68	800 L
14	Flash Butt Welding I	Bay 4	S.S 68	360 L
15	Flash Butt Welding II	Bay 4	S.S 68	360 L
16	SYSTEM BENDER	Bay 5	S.S 46	850 L

**Note:** For Sl. No. 1 and 2 (20 Torch MPM ) Filter cleaning of the machines to be done as per required periodicity and supervisor Instruction

Sign & Seal of Contractor

# BHARAT HEAVY ELECTRICALS LIMITED

(A Govt.of India Undertaking)

High Pressure Boiler Plant, Tiruchirappalli 620 014, India

**MAINTENANCE & SERVICES DEPARTMENT**

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



ISO 9001

## Group III Bay 1 and 2 (Bldg NO.108):

S.NO	MACHINE TYPE	BAY	OIL GRADE	TANK CAPACITY
1	Radial Drilling machine-BR825	Bay1	SS68/320	1.5/10L
2	Horizontal bandsaw DCA421mm	Bay 1	SS 68/SP12	200L/20L
3	CNC-220 Pipe Chamfering	Bay 1	SS 68/SS32	120 L/5L
4	SAFOP Pipe Chamfering	Bay 1	SS 68/SP12	200L/40L
5	Horizontal bandsaw -1050mm	Bay 1	SS 68/SP12	200L/20L
6	CNC Herber Stub Bending M/c	Bay 1	SS 68/SP12	700 L/40L
7	CH6-Tube Bending m/c	Bay 1	SS 46	700 L
8	CNC250PipeBending m/c	Bay 2	SS 46	2100L
9	1010B- CNC pipe Bend.	Bay 2	SS 46	780 L
10	WE-265D Pipe Bending	BAy 2	SS 68	600 L
11	CNC-220 Pipe Chamfering	Bay 2	SS 68/SS32	120 L/5L
12	CNC-220 pipe Chamfering	Bay 2	SS 68/SS32	120 L/5L
13	Y3301 Pipe Chamfering	Bay 2	SS68/SW220	320L/420L
14	Radial Drilling machine- RM65	Bay2	SS68	5L
15	Ikegai Chamfering machine	Bay2	SS68	30L

Sign & Seal of Contractor

# BHARAT HEAVY ELECTRICALS LIMITED

(A Govt.of India Undertaking)

High Pressure Boiler Plant, Tiruchirappalli 620 014, India

**MAINTENANCE & SERVICES DEPARTMENT**

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



ISO 9001

## Group-IV Bay A,4 and 5 (Bldg 108):

S.NO	MACHINE TYPE	BAY	OIL GRADE	HYD/LUB TANK CAPACITY
1	100T LPG Fired Furnace	Bay A	SM 320	100 L
2	CH6-Tube Bending m/c	Bay A	SS 46	700 L
3	CNC600 Pipe Chmf m/c	Bay 4	SS 68/SP 12	350L/40L
4	Pipe Butt Welding m/c	Bay 4	SS 320	40L - 2nos
5	SAFOP Pipe Chamfering-600	Bay 3	SS 68/SP12	200L/40L
6	Portable Universal drilling machines	Bay5	SS 46/320	35/20L -3nos
7	10T High Temp.Furnace	Bay4	SM 320	80 L
8	Radial Drilling machine-RM52	Bay5	SS68	5L
9	Radial Drilling machine-RM61	Bay4	SS68	5L

## Group-V Bay 1, 2 and Bay A (Bldg 117):

S.NO	MACHINE TYPE	BAY	OIL GRADE	HYD/LUB TANK CAPACITY
1	SYSTEM BENDER	Bay 1	S.S 46	850 L
2	NEW ATCEP IV	Bay 1	S.S 46/S.P12	125 L/10L
3	STBW I with RTR THS	Bay 1	S.s 68/S.P12	75 L/10L
4	STBW II with RTR THS	Bay 1	S.s 68/S.P12	75 L/10L
5	Cont. Discharge Furnace	Bay 2	S.S 320	50 L

Sign & Seal of Contractor

# BHARAT HEAVY ELECTRICALS LIMITED

(A Govt.of India Undertaking)

High Pressure Boiler Plant, Tiruchirappalli 620 014, India

MAINTENANCE & SERVICES DEPARTMENT

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



ISO 9001

## Group -VI Bay 1 and 2 (Bldg 123) :

S.NO	MACHINE TYPE	BAY	OIL GRADE	TANK CAPACITY
1	SWAGING MACHINE	Bay 1	S.S 46/S.P12	50 L/50L
2	OPS COILING MACHINE	Bay 1	S.S 320	50 L
3	IPS COILING MACHINE - BECO	Bay 1	S.S 320	40 L
4	CNC TUBE COLING MACHINE-SIGT	Bay 1	S.S 320	25 L
5	PHEHAKA VERTICAL CUTTING	BAY 2	S.S 320 /SS 68	5 L / 40 L
6	Double Column drilling and milling machine	Bay 2	S.S 68/320/46	60 /40/10L
7	Portable Universal drilling machines	Bay2	SS 46/320	35/20L
8	Auto Welding machine-SAW	Bay2	SS320/68	20/10L
9	CNC lathe for Reaming	Bay1	SS46/68	50/3L
10	Flushing station	Bay1	SS46	10L

**Note:** For all the furnace at unit-II all type of blower filters are to be cleaned Once in a cycle

Sign & Seal of Contractor

# BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

High Pressure Boiler Plant, Tiruchirappalli 620 014, India

**MAINTENANCE & SERVICES DEPARTMENT**

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



ISO 9001

## **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) Contractor may visit BHEL Trichy premises to get acquaintance with quantum of day to day work before quoting.
- 9) 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.

Sign & Seal of Contractor

# BHARAT HEAVY ELECTRICALS LIMITED

(A Govt.of India Undertaking)

High Pressure Boiler Plant, Tiruchirappalli 620 014, India

**MAINTENANCE & SERVICES DEPARTMENT**

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



ISO 9001

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.

\*\*\*\*\*

Sign & Seal of Contractor

# BHARAT HEAVY ELECTRICALS LIMITED

(A Govt.of India Undertaking)

High Pressure Boiler Plant, Tiruchirappalli 620 014, India

**MAINTENANCE & SERVICES DEPARTMENT**

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



ISO 9001

## **COMMERCIAL TERMS AND CONDITONS 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 Engineer 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 in unit rate.**
- 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.
- 12) 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 challan's to Welfare Section every month.

\*\*\*\*\*

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: **AMC FOR CLEANING WORKS IN BUILDING 1 & UNIT-II– Reg.**

Ref: Enquiry no: 9241700008 Dated 23/03/2017. Due date: 31/03/2017, 14.00 Hrs.

### 1) Cleaning & PM of Rotators Bay 1 to 12

Sl. No	Description	Qty	UOM	Rate	Value
C1	Cleaning & PM of Rotators Bay 1 to 12	12	CY		

### 2) ANNUAL CLEANING & MAINTENANCE OF GAS UTL

Sl. No	Description	Qty	UOM	Rate	Value
D1	ANNUAL CLEANING & MAINTENANCE	8	CY		

### 3) CLEANING & OIL TOP UP OF THE M/Cs

Sl. No	Description	Qty	UOM	Rate	Value
E1	CLEANING & OIL TOP UP OF THE M/Cs	8	CY		

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

- 1) Payment terms: 100 % 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) **L1 Vendor will be finalized based on Individual Item basis.**

Sign & Seal of Contractor