



Corporate Identity Number (CIN)
L74899DL1964GOI004281

भारत हेवी इलेक्ट्रीकल्स लिमिटेड

सी०एस० एवं फ़ैब्रिकेशन प्लान्ट, औ० क्षेत्र जगदीशपुर, जिला- अमेठी-227817

BHARAT HEAVY ELECTRICALS LIMITED

CS & FABRICATION PLANT,

Industrial Area Jagdishpur, District : Amethi, UP-227817, India

SECTION II

SPECIAL TERMS AND CONDITIONS

(The 'Special Terms and Conditions' given hereunder supersede the relevant terms and conditions given in 'General Terms and Conditions')

1. SCOPE OF WORK:

'Works Contract for Mechanical Maintenance & Services for Fabrication Plant'

The nature of work shall comprise but not limited to the following for maintenance of equipments and their accessories, other installations associated with machines in ensuring & maintaining availability of machines.

A) Preventive & Breakdown maintenance of the following systems:

Maintenance of machines at Fabrication Plant	a) Preventive maintenance of machines in F.P. - Weekly / monthly / half yearly / Yearly.
	b) Assistance in break down maintenance of machines.
	c) Maintenance of 05 nos. mobile compressors & cleaning of 03 nos. heavy duty compressors & driers.
	d) Topping up / replacement of Hydraulic oil, coolants, lubrication of machines, cleaning / replacement of air filters, oil filters etc.
	e) Checking for oil leakages, oil temperature, tightness of connections, adjustment of mechanical clearances, pressure settings, checking of wears & repairing.
	g) Testing of motors, cables, starters, related to machines
	h) Any other work related to maintenance as per instructions of Engineer-in-charge.
	Maintenance of BOPT & WEX- Store
b) Lubricant/ coolant/ battery checking & cleaning of fork lifters.	
c) Upkeeping & assistance in of WEX-Stores operation.	
d) Collection & delivery of items from stores.	
General	a) Works associated with modification / improvements of installations, development of mechanical facilities.
	b) Shifting of materials in required for maintenance.
	c) Collection and delivery of items at Main stores/ WEX stores / premises of BHEL unit.
	e) During the contract period if any new machines are added in respective shops, they also shall be maintained by the vendor at no extra cost.

General	f) Watch and ward of Material / Equipment, handed over to the contractor for installation shall be done by the contractor till the installations are taken by BHEL.
	g) Any other activity necessary for completion of the job but not specifically mentioned in this specification.
	h) Shifting, storing, verification, preservation during storage and handing over of spare items/maintenance equipment to Customer/Owner.
	i) Reconciliation and shifting of all the balance excess material and scrap material to BHEL store or handover in customer store, as the case may be.
	j) Any other work as instructed by the Engineer-in-charge in ensuring and maintaining consistent power supply to utilities, safety & ensuring continuous operation of machines etc.

B. DEPLOYMENT OF MANPOWER:

Contractor shall deploy qualified, experienced manpower along with copy of certificated authorization prior to start of execution. The AMC work are required to be carried out by the contractor for 1 year on 3 shift basis including its supervision & execution part as well as emergency works during weekly off & holidays.

1. Any change/ replacement during execution will be with the prior permission from the Engineer-in – Charge.
2. Contractor shall make arrangement for accommodation of their staff at their own cost. BHEL will not provide accommodation to the staff.
3. Contractor shall provide necessary personal protective equipments to the staff and ensure the proper use of the equipments. Contractor shall be responsible for safety of their staff.
4. It is expected that contractor will give preference to the staff having prior experience of working at CS&FP plant.
5. Contractor shall ensure deployment of following experienced staff on all days on three shifts basis including Sundays and Holidays as per Engineer-in – Charge.

Total minimum Skilled worker: 04 Nos. per day including Supervisor.

Total minimum Unskilled worker: 08 Nos. per day.

6. Any addition or reduction in above shall be as per actual site & work requirement.



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C. LIST OF EQUIPMENT & PREVENTIVE MAINTENANCE SCHEDULE FOR ONE YEAR

S.N.	LIST OF EQUIPMENT	TOTAL NO.	FREQUENCY OF PREVENTIVE MAINTENANCE IN YEAR	FREQUENCY OF CLEANING
1	ELECTRO PERMANENT MAGNET WITH BEAM	1	2	Quarterly
2	FLATTENING MACHINE	1	2	Quarterly
3	CNC SHEARING MACHINE	1	2	Quarterly
4	CNC GAS/PLASMA CUTTING MACHINE - SUPPORT SERVICES	2	-	Quarterly
5	CNC BRAKE PRESS	1	2	Quarterly
6	CNC HYDRAULIC PRESS 1000 TON	1	2	Quarterly
7	4-ROLL BENDING MACHINE	1	2	Quarterly
8	PRE HEATING BOGIE HEARTH FURNACE	1	1	Half yearly
9	BAND SAW	1	2	Quarterly
10	MANUAL WELDING SET (RECTIFIER)	10	2	Quarterly
11	TIG WELDING MACHINE	10	2	Quarterly
12	MIG/MAG WELDING MACHINE	50	1	Quarterly
13	SUBMERGED ARC WELDING MACHINE	6	2	Quarterly
14	GOUGING SET	6	2	Quarterly
15	MANIPULATOR FOR 10 TON	1	1	Quarterly
16	MANIPULATOR FOR 20 TON	2	1	Quarterly
17	HIGH FREQUENCY GRINDER	3	1	Quarterly
18	BOGIE HEARTH STRESS RELIEVING FURNACE	1	2	Half yearly
19	SHOT BLASTING MACHINE	1	2	Half yearly
20	COL. & BOOM TYPE MECH. SAW/NGSAW MACHINE	1	2	Quarterly
21	HORIZONTAL BORING MACHINE 110 MM	1	2	Monthly
22	VERTICAL BORER 2.5 M	1	2	Quarterly
23	VERTICAL BORER 4.5 M	1	2	Quarterly
24	TRAVELLING COLUMN -RADIAL DRILLING MACHINE	1	2	Quarterly
25	RADIAL DRILLING MACHINE	4	2	Quarterly



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26	UNIVERSAL PORTABLE DRILLING MACHINE	2	1	Quarterly
27	HORIZONTAL MILLING MACHINE	1	2	Quarterly
28	VERTICAL MILLING MACHINE	1	2	Quarterly
29	LATHE MACHINE	1	2	Quarterly
30	INTER BAY TRANSFER TROLLEY 50 TON	2	2	Quarterly
31	FORK LIFTER 3 TON- SUPPORT SERVICES	1	4	Monthly
32	FORK LIFTER 5 TON - SUPPORT SERVICES	1	4	Monthly
33	MOBILE CRANE 20 TON - SUPPORT SERVICES	1	4	Quarterly
34	EQUIPMENTS IN COMPRESSOR HOUSE	ALL	2	Quarterly
35	EQUIPMENTS IN OXYGEN PLANT – SUPPORT SERVICE	ALL	2	Quarterly
36	ELECTRODE OVENS	6	2	Half yearly

1.0 Price Variation Clause (PVC):

There is a provision of Price variation shall be provided. In case of any change observed in minimum wage by Govt., contract has to be given an equivalent change in their quoted rate. The changed rate shall be derived as per following rules:

For **unskilled** Man-days: Revised Rate = Initial Finalized Rate + 1.3123 x New Min. Wage – 373.52

For **Skilled** Man-days: Revised Rate = Initial Finalized Rate + 1.3123 x New Min. Wage - 460.25

The changes notified by BHEL HR only shall be considered for above calculations. The changed rates are effective as per effective date of change notified by BHEL-HR.

The above PVC is applicable on change on minimum wage only. No other change is considered for revision of quoted rate.

3.0 PENALTY:

3.1 Minimum average 12 x (No. of working days in the month) mandays shall be ascertained by contractor in a month, where 12= 4 SW (including supervisor) +8 USW. A penalty of Rs. 500 shall be imposed for each short mandays on monthly basis . However minimum monthly mandays requirement include the manpower deployment only on working days.

3.2 Poor Quality of Preventive Maintenance: The firm is liable to be penalized for poor quality of work for reason attributable to contractor by deducting Rs.1000/- per Machine, if faults occur in the major assemblies of the equipment that has been covered under preventive maintenance check list within a month of preventive maintenance.



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3.3 Machine availability: The penalty deducted based on performance report generated by the maintenance and/or production department on half yearly basis as given below-

PENALTY CALCULATION FOR THE 6 TH & 12 TH BILL OF THE YEAR		
A	MACHINE AVAILABILITY	SUM OF AVAILABLE HRS. -----X100 SUM OF TOTAL WORKING HRS. (Available Hrs. taken from breakdown Report except hrs. of non-availability of spares)
B	PENALTY FACTOR FOR MACHINE	0 IF A>95 % OTHERWISE (95-A)/100
C	PENALTY AMOUNT FOR A MACHINE	(ANNUAL CONTRACT VALUE X PENALTY FACTOR)/(2 X TOTAL NO. OF MACHINES
D	TOTAL DEDUCTION FROM 6 TH & 12 TH MONTHLY BILL OF A YEAR	SUM OF 'C' FOR ALL MACHINES + PENALTY IMPOSED BY COMPETENT AUTHORITY OF BHEL IF ANY BASED ON PERFORMANCE REPORT

3.4 The list of machines on which the penalty is deducted based on performance report are as below:-

S.N.	LIST OF EQUIPMENT	NOS. OF EQUIPMENT
1	CNC SHEARING MACHINE	1
2	FLATTENING MACHINE	1
3	CNC BRAKE PRESS	1
4	CNC HYDRAULIC PRESS 1000 TON	1
5	4-ROLL BENDING MACHINE	1
6	PRE HEATING BOGIE HEARTH FURNACE	1
7	BAND SAW	1
8	BOGIE HEARTH STRESS RELIEVING FURNACE	1
9	SHOT BLASTING MACHINE	1
10	COL. & BOOM TYPE MECH. SAW/NGSAW MACHINE	1
11	HORIZONTAL BORING MACHINE 110 MM	1
12	VERTICAL BORER 2.5 M	1
13	VERTICAL BORER 4.5 M	1
14	TRAVELLING COLUMN -RADIAL DRILLING MACHINE	1
15	RADIAL DRILLING MACHINE	4
16	UNIVERSAL PORTABLE DRILLING MACHINE	2
17	HORIZONTAL MILLING MACHINE	1
18	VERTICAL MILLING MACHINE	1
19	LATHE MACHINE	1
	TOTAL NO. OF MACHINES	23



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4. QUALIFYING CRITERIA:

The bidders should fulfill following qualifying criteria:

4.1 The firm must have experience in maintenance (Preventive & break down) of plants/machines/ equipments (viz. drilling, boring, cutting, bending, shearing, machining, welding machines etc.) in Govt. / reputed firms.

4.2 Experience of having successfully completed similar work as detailed in clause 2.1 above, during last 7 years ending last day of month previous to the one in which applications are invited should be either of the following: -

Three similar completed works each costing not less than an amount equal to Rs. 9.56 Lakhs.

Or

Two similar completed works each costing not less than an amount equal to Rs. 11.94 Lakhs

Or

One similar completed work costing not less than an amount equal to Rs. 19.11 Lakhs.

4.3 Average Annual financial turnover during the last 3 years, ending 31st March of the previous financial year, should be at least 7.17 Lakhs. Self attested Audited Balance Sheet and Profit & Loss statement as on 31st March for last three years ending on 31/03/2017 to be submitted.

4.4 The bidder should meet all statutory requirement of Central/ State Govt. Like PF, ESI, PAN, Labour License, Service Tax Registration etc. as may be applicable. Self attested photocopy of the relevant documents to be submitted by the bidder in fulfillment of this criterion.

Note:

a) Above mentioned criteria should be met by the bidder himself and not by any associate bidder.

b) The bidder is required to submit documentary evidence in support of each of the above qualifying criteria.

5. BUSINESS/WORK DISTRIBUTION:

5.1 The work is indivisible and total work in full shall be ordered on a single party.

6. Initial period of contract will be for 6 months. After completion of 6 months, BHEL will review the requirement of contract and it may decide to continue further for 6 months or close the contract.