

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: 9241700009

06.04.2017

NOTICE INVITING TENDER

Sub: **1) Reclamation of Hydraulic and Lub oil**

2) Machine Accessories Maintenance at DSPS, ATP, Bldg.1, Bldg.-50 - Reg.

Ref: Enquiry no: 9241700009 DATED: 06/04/2017; DUE DT: 03/05/2017

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 superscribing the name of work, enquiry number etc.

- 1) EMD cover shall contain requisite **EMD of Rs.45,622/-** 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.45,622/-** shall reach the office of the undersigned on or before 03/05/2017 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.

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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	1) Reclamation of Hydraulic and Lub oil 2) Machine Accessories Maintenance at DSPS,ATP,Bldg.1,Bldg.-50
02.	Earnest Money Deposit	Rs.45,622/-
03.	Duration of the contract	1 Years (From the date of commencement of the work)
04.	Last Date for Receipt of Tender	14.00 Hrs on 03/05/2017
05.	Date of Technical Bid Opening	14.30 Hrs on 03/05/2017
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) / govt. website (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

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TECHNICAL BID

NAME OF THE WORK: **1) Reclamation of Hydraulic and Lub oil**
2) Machine Accessories Maintenance at DSPS,ATP, Bldg.1, Bldg.-50

Enquiry no: 9241700009 Dated: 06/04/2017. Due date: 03/05/2017, 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/ 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 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.RECLAMATION OF HYDRAULIC AND LUB OIL.

SI. NO	SCOPE OF WORK	QTY
A1	<p>Reclamation of Hydraulic and Lubrication Oil at Bldg.-1:</p> <p>SCOPE OF WORK:</p> <p>1)Carry out Reclamation of Hydraulic and Lubrication Oil in barrels as per the following procedure:</p> <p>a) Clean the top face of the barrel thoroughly.</p> <p>b) Mark the identification No. for each barrel and note down the details of quantity and viscosity of oil available in each barrel.</p> <p>c) Keep the barrel in tilted position, keeping the small cap at bottom for one day.</p> <p>d) Drain the water to the maximum extent by opening the cap, on the next day.</p> <p>e) De-watering (remove the moisture) by centrifuge equipment (and /or) vacuum de-humidifier unit.</p> <p>f) Filter the de-humidified oil through standard filter units.</p> <p>g) Fine filtration of the above oil, using Electrostatic filtration unit and collect in clean barrels.</p> <p>h) Measure the viscosity and Carry out the Flame test and Patch test for each barrel as per the instruction of MMO Supervisor incharge.</p> <p>i) Record all the data as per the standard format in a log book.</p> <p>j) Mark the identification No. for each filtered oil barrel and note down the details of quantity and viscosity of oil available in each barrel.</p> <p>2) Clean thoroughly all the equipments and filter elements used in the above process.</p> <p>3) Clean and maintain the reclamation room and its surrounding area neat and free of oil spillage.</p> <p>4) However the Contractor/supervisor shall monitor the process and records during reclamation .</p> <p>5) Contractor should quote the rate for reclaiming one Barrel of reclaimed oil.</p> <p>SCOPE OF BHEL:</p> <p>1) All the consumables, power supply and equipments meant for reclamation of oil will be provided by BHEL free of cost.</p> <p>2) All the cleaning materials cotton waste, kerosene and acetone for reclamation will be provided by BHEL free of cost.</p>	100 BL

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2.SERVICING AND MAINTENANCE OF FACILITY ITEMS FOR 32 MACHINES IN BLDG.-50

SI. No	SCOPE OF WORK	QTY
A2	<p>SERVICING AND MAINTENANCE OF FACILITY ITEMS FOR 32 MACHINES IN BLDG.-50.</p> <p>SCOPE OF WORK FOR SERVICING AND MAINTENANCE OF FACILITY ITEMS AVAILABLE IN THE MACHINES AND FURNACES AT Bldg.-50</p> <p>A. The maintenance of following facilities such as IN FEED AND OUT FEED of all machines and furnaces, cleaning of all facilities and other works for 32 Machines in Bldg. No.-50 Refer SI.No F.</p> <ol style="list-style-type: none">1.In feed roller & out feed roller stand with gear box drive.2.Idle Roller stand for tube in feed and out feed(Tube handling system).3.Kick off system with gear box drive and pneumatic drive.4.Walking beam with gear box drive and pneumatic drive.5.Panel Flipping unit.6.Waterfall rack in STBW MACHINES(Three Nos).7.Hose connection/replacement in PPM 2,DEUMA and PEMAMEK(2 Nos) for flux and slag RECOVERY SYSYEMS.8.Fumes collecting Filter catridges in 20 torch MPM(1 Nos), PEMAMEK(2 Nos), PPM 2 m/cs.9.Filter bags in DISA roto ,NESCO roto,DEUMA PPM10.Filters in Chiller unit and Blowers. <p>B. Contractor shall attend the following works in the above facilities.</p> <ol style="list-style-type: none">1.Clean all the facilities mentioned above with wire brush, cotton waste and kerosene periodically.2.Lubricate all chains, sprockets, rollers, bearings and Plummer blocks periodically.3.Adjust slackness in chain drive system, tighten all loosened bolts and nuts of plummer blocks, pillow blocks, sprockets and gear box mountings.If necessary replace the damaged/broken plummer blocks, worn out chains and sprockets.4.Alignment of rollers, sprockets in line whenever required.5.Repair of roller stands, walking beam and water fall racks whenever required.6.Changing/replacing of damaged rollers in roller stands.7.The contractor shall check the tightness of hoses, change the punctured hose and maintain the joints leak proof for smooth operation of slag and flux recovery systems.8.Repairing of roller stands with gas cutting and welding shall be done whenever required.9.Contractors shall be able to paint, other misc. works of the facilities whenever required <p>C.BHEL SCOPE OF WORK:</p> <ol style="list-style-type: none">1.All the required machine spares like chains, sprockets, Plummer blocks, bearings, etc will be supplied by BHEL free of cost.2.All consumables like welding electrodes, kerosene, cotton waste, emery sheet, dungry cloth, oxygen and cutting gas, electricity, water, compressed air, compressed air hoses, etc will be supplied by BHEL free of cost.	12 NO

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3.Welding machine and cables, drilling facility, machining facility, grinding facility ,etc required shall be arranged by BHEL at free of cost.

D.CONTRACTOR SCOPE:

1.Contractor should mobilize the necessary manpower immediately as per instruction from MMO Engineers/supervisors.

2.Contractor shall bring following Tools sets on all working days

a)Box spanner with ratchet handle one set(6 mm to 30mm)

b)Allen key 3 set(both in MM and Inches)

c)Double ended spanner 3 Set(6mm to 40mm)

d)Ring spanner 3 Set(6mm to 40mm)

e)Cutting plier

f)Hammer (Normal size 2 pounds and sledge hammer 6 Pounds)

g)Adjustable spanner

h)Pipe wrench 2.5"

i)Screw driver(Star and Normal)

g)Hack saw frame

h)File(Round,flat,Half round of both fine and rough sizes)

i)3 sets of gas cutting cutogen with Gas regulators, rubber hoses,lighter,Goggle,Welding shield and other personal safety protective equipments required for attending the above work.

3.The contractor shall deploy manpower for all working days including Sundays and holidays for carrying out the above work as per instruction from Area Supervisors/Executive/MMO.

4.The contractor should adhere to work as per the priorities of the machines from time to time as and when machines available for the work as per instruction from Area Supervisors/Executive/MMO.

E.Delivery Schedule of work:

The above work shall be carried out within one month period covering 32 machines listed below which is considered as one cycle.The same to be carried out in all working days including sunday and holidays.

12 such cycles shall be carried out in One Year.

Period of contract is One year.

Priority shall be decided by Area Maintenance Executive IN CHARGE.

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F.The list of 32 machines covered Under three group are given below

Group-I, Bay A,1,2/Bldg 50

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- 1.ATCEP, Loc.No. 5959-2014/Bay-A:
- 2.SHOT BLASTING M/C, Loc.No. 6164-3455:
- 3.STBW-I, Loc.No. 2829-3516 with FT:
- 4.STBW-6, Loc.No. 2829-4296 with FT:
- 5.ATCEP, Loc. No. 5959-3493/Bay-A:
- 6.NEW ROTO BLASTING M/C.2, Loc.No.61614127:
- 7.STBW-3, Loc.No. 2829-2052 with FT:
- 8.STBW-4 Loc.No.28294128 With FT
- 9.NEW ATCEP II kkk Loc.No.59594051
- 10.NEW MCO I Loc.No.59513470
- 11.Gantry Welding machine, Loc: 28873936
- 12.MCO II loc.no.59510037
- 13.20 Torch MPM - 28873903-Bay.1
- 14.PPM-II, Loc.No.2887-0093/Bay-2:
- 15.Pemamek FFW Loc.No. 2887-3495/Bay-2:
- 16.CDF (CONTINUOUS DISCHARGE FURNACE) LOC NO:1654 0214.Bay 2

GROUP -II, Bay 3 to 5/Bldg 50

1. CNC Herber Pipe Bending machine LC.3872-3505, Bay 3.
2. WE 100 BENDING MACHINE,LOC NO:3891 2021 Bay 3
3. CH6 Tube bending m/c L.C. 3872-2008- Bay 3
- 4 VOP Tube bending M/c. LC.No.3388-0035,Bay3
5. WE 100 BENDING MACHINE,LOC NO:3891 2022 Bay 4
6. HTF (HIGH TEMPERATURE FURNACE) LOC NO:1654 2239/BAY-3
7. SYSTEM BENDER LOC NO: 38892082 Bay 4
- 8 Pemamek FFW Loc No 2887 3494 Bay 5
9. DEUMA, Location No. 2889-2139/Bay-5:

Group-III, Bay 5A to 8 Bldg 50

- 1.NEW SYSTEM BENDER-KKK Bay 6 Loc No :38894171
- 2.CNC 100 Nipple Bender Bay 6
- 3.Pines Tube Bending m/c Bay 7 Loc No :38724177
- 4.CNC Herber Pipe Bending machine Bay 7.
- 5.WE 100 Pipe Bending machine Bay 7
- 6.Pines Tube Bending m/c Bay 8 Loc No : 38724178
- 7.Continuous Discharge Furnace/Bay 8

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3. MACHINE ACCESSORIES MAINTENANCE FOR BLDG 1 Bay 1 to 12,1A & 1B

SI. No	SCOPE OF WORK	QTY																																																																																								
A3	<p>MACHINE ACCESSORIES MAINTENANCE FOR BLDG 1 Bay 1 to 12,1A & 1B.</p> <p>Scope of the Contract: Carrying out the following activities of Mechanical Maintenance of machines and its accessories in BLDG-1,Bay 1 to 12,1A & 1B shops at BHEL, Trichy.</p> <ol style="list-style-type: none">1.Cleaning of sub-assemblies and dismantled components while attending the break-down of machines.2.Cleaning of the machine surface and other accessories and fixtures of the machine for trouble shooting and to access the machine components during maintenance.3.Cleaning of the machine area after attending the breakdown. All the spillage oil, cotton waste and other wooden wastes to be removed from the surroundings of the machine and moved to the waste bins.4.Cleaning of oil, chips and dust inside/outside machine pit or non approachable areas of machines before attending maintenance.5.Cleaning of machine components and stand-by sub-assemblies with kerosene and oil.6.Movement of machine components from machine area to work bench and vice versa.7.Movement of raw materials for spares manufacturing to the respective machine shop.8.Movement of spares, consumables, raw materials, etc from maintenance stores to respective maintenance sections/plant Designs.09.Assisting in loading and unloading of new, shifted and condemned machines.10.Cleaning of machines under shifting and assisting the fitters & electricians for dismantling, shifting and re-erection.11.No other material scope is required from the contractor. All the materials involved in the contract will be provided by BHEL free of cost. <p>MACHINE LIST:</p> <p>CRITICAL MACHINES.</p> <table><thead><tr><th>S.NO</th><th>Bay</th><th>Eq.No</th><th>Equipment Type</th></tr></thead><tbody><tr><td>1</td><td>2</td><td>47022629</td><td>GANTRY DRILLING M/C-Y1208</td></tr><tr><td>2</td><td>3</td><td>46664203</td><td>TRAVELLING COLUMN RADIAL DRILLING MACHIN VOP</td></tr><tr><td>3</td><td>7</td><td>46664293</td><td>TRAVELLING COLUMN RADIAL DRILLING MACHIN VOP</td></tr><tr><td>4</td><td>1A</td><td>48283503</td><td>CNC PIPE EDGE PREPARATION M/C UMM130P (HB627)</td></tr><tr><td>5</td><td>1A</td><td>38764199</td><td>INCREMENTAL PIPE BENDING M/C PB600</td></tr><tr><td>6</td><td>1A</td><td>17644166</td><td>50T - Double Bogie Hearth Furnace</td></tr></tbody></table> <p>NON CRITICAL MACHINE.</p> <table><tbody><tr><td>1</td><td>1</td><td>41373517</td><td>LARGE CNC LATHE-LC-140N</td></tr><tr><td>2</td><td>1</td><td>41862130</td><td>CENTRE LATHE -HHD-65</td></tr><tr><td>3</td><td>1</td><td>43880107</td><td>DEEP HOLE BORING M/C-PTC-400</td></tr><tr><td>4</td><td>1</td><td>43950364</td><td>PIPE CHAMFERRING M/C-JCH 500</td></tr><tr><td>5</td><td>1</td><td>45622307</td><td>RADIAL DRILLING M/C-RM65</td></tr><tr><td>6</td><td>1</td><td>49880103</td><td>DOUBLE COLUMN PLANING M/C-PD-20</td></tr><tr><td>7</td><td>1</td><td>15611511</td><td>30 TON FURNACE.</td></tr><tr><td>8</td><td>2-MMO</td><td>46310430</td><td>PEDESTAL DRILLING M/C-PD-50</td></tr><tr><td>9</td><td>2</td><td>28843071</td><td>SUB-ARC WELDING M/C-1201</td></tr><tr><td>10</td><td>2</td><td>33374729</td><td>600T Goose Neck Press</td></tr><tr><td>11</td><td>2</td><td>46663513</td><td>TRAV.COLUMN RADIAL DRILL.M/C-DRT-10</td></tr><tr><td>12</td><td>2</td><td>46663514</td><td>TRAV.COLUMN RADIAL DRILL.M/C-DRT-10</td></tr><tr><td>13</td><td>2</td><td>47023499</td><td>SHALLOW GANTRY CNC DRILL HEAD-Y1298</td></tr><tr><td>14</td><td>2-MMO</td><td>52270515</td><td>VERTICAL MILLING M/C M 3V</td></tr><tr><td>15</td><td>2-MMO</td><td>41283739</td><td>HMT CENTRE LATHE NH27</td></tr></tbody></table>	S.NO	Bay	Eq.No	Equipment Type	1	2	47022629	GANTRY DRILLING M/C-Y1208	2	3	46664203	TRAVELLING COLUMN RADIAL DRILLING MACHIN VOP	3	7	46664293	TRAVELLING COLUMN RADIAL DRILLING MACHIN VOP	4	1A	48283503	CNC PIPE EDGE PREPARATION M/C UMM130P (HB627)	5	1A	38764199	INCREMENTAL PIPE BENDING M/C PB600	6	1A	17644166	50T - Double Bogie Hearth Furnace	1	1	41373517	LARGE CNC LATHE-LC-140N	2	1	41862130	CENTRE LATHE -HHD-65	3	1	43880107	DEEP HOLE BORING M/C-PTC-400	4	1	43950364	PIPE CHAMFERRING M/C-JCH 500	5	1	45622307	RADIAL DRILLING M/C-RM65	6	1	49880103	DOUBLE COLUMN PLANING M/C-PD-20	7	1	15611511	30 TON FURNACE.	8	2-MMO	46310430	PEDESTAL DRILLING M/C-PD-50	9	2	28843071	SUB-ARC WELDING M/C-1201	10	2	33374729	600T Goose Neck Press	11	2	46663513	TRAV.COLUMN RADIAL DRILL.M/C-DRT-10	12	2	46663514	TRAV.COLUMN RADIAL DRILL.M/C-DRT-10	13	2	47023499	SHALLOW GANTRY CNC DRILL HEAD-Y1298	14	2-MMO	52270515	VERTICAL MILLING M/C M 3V	15	2-MMO	41283739	HMT CENTRE LATHE NH27	12 NO
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16	2	46550050	RADIAL DRILLING M/C VR 8
17	2	86763746	HYDRO TEST STATION PUMP- 800 BAR UT PUMPS
18	3	28844162	PIPE TO PIPE AND PIPE FITTING WELDING MC
19	4	28842860	SUB-ARC WELDING M/C-1201
20	4	28844148	PIPE TO PIPE AND PIPE FITTING WELDING MAC
21	4	33373468	GOOSE NECK PRESS-HH2066-600T
22	4	46663522	TRAV.COLUMN RADIAL DRILL.M/C-DRT-10
23	4	46663523	TRAV.COLUMN RADIAL DRILL.M/C-DRT-10
24	5	41270286	CENTRE LATHE -LB20/1000
25	5	41241562	CENTRE LATHE -LB17/1000
26	5	41310333	UNIVERSAL CENTRE LATHE -SU63A/1250
27	5	42320014	DOUBLE COLUMN VERTICAL BORING M/C -SK25A
28	5	42342400	VERTICAL BORING M/C-CVBM225
29	5	42410001	VERTICAL BORING M/C-SK 50
30	5	46552249	RADIAL DRILLING M/C -DR8
31	5	46632101	RADIAL DRILLING M/C-CARLTON
32	5	48052583	DRILLING, MILLING & BORING M/C-Y1197
33	5	48322444	HORIZONTAL BORING M/C-HB609
34	5	46572723	BPR 50 Universal Drilling machine
35	6	28844146	PIPE TO PIPE AND PIPE FITTING WELDING M/C FINEARC
36	6	46550053	RADIAL DRILLING M/C VR 8
37	6	46671679	RADIAL DRILLING M/C-DRT10
38	6	42320361	DOUBLE COLUMN VERTICAL BORING M/C -SK25A
39	6	HYDRO TEST STATION PUMP- 800 BAR UT PUMPS	
40	7	33374202	600 TON HYDRULIC GOOSENECK PRESS
41	7	46523012	RADIAL DRILLING MACHINE-RM65
42	7	48240028	HORIZON. BORING M/C-BFP 125
43	7	28844145	PIPE TO PIPE AND PIPE FITTING WELDING M
44	7	86763752	HYDRO TEST STATION PUMP- 800 BAR UT PUMPS
45	7	28841506	ADORE AUTO WELD MACHINE
46	8	46671749	RADIAL DRILLING M/C-DRT10
47	8	28843859	HEADER PIPE / FGITTING WELDING STATION PRIMO
48	8	38292626	HYDRAULIC PRESS BRAKE -40H32-400T SIMTOOLS
49	8	46523210	RADIAL DRILLING MACHINE-RM65
50	8	46550051	RADIAL DRILLING M/C VR 8
51	8	57221241	PRAGA TOOL PEDESTRAL GRINDER
52	9	43964185	CNC PIPE END CHAMFERING M/C - 600MM (SAFOP-2)
53	9	38273449	HYDRAULIC PRESS BRAKE-EHP-340.31/25-300T
54	9	46553463	RADIAL DRILLING MACHINE DR 8A
55	9	38410261	THREE ROLL PLATE BENDING M/C-XZM 2000/4A
56	9	28844168	PIPE TO PIPE AND PIPE FITTING WELDING FINE ARC
57	9	59674135	INDOTECH MAKE DOUBLE COLOMN BANDSAW 650
58	9	48454300	SMTCL Radial drillinig machine
59	9	28844742	Auto welding machine
60	9	PEDALS & GRINDING MACHINE	
61	10	43964182	CNC PIPE END CHAMFERING M/C - 900MM (SAFOP-3)
62	10	28844754	PIPE TO PIPE AND PIPE FITTING WELDING PRIMO
63	10	46572650	RADIAL DRILLING M/C- VOM 50
64	10	48210723	HORIZONTAL BORING-BH100
65	10	PEDESTRAL GRINDER	
66	10	ELECT. HEAT TREAT FURNACE THERLEC - 5T	

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67	11	43964180	CNC PIPE END CHAMFERING M/C - 900MM (SAFOP-4)
68	11	46520462	RADIAL DRILLING M/C-RM65
69	11	46522344	RADIAL DRILLING M/C-RM65
70	11	48213374	HORIZONTAL BORING M/C-W100A
71	11	28843858	HEADER PIPE/FITTING WELDING STATION PRIMO
72	11		PEDESTRAL GRINDING MACHINE
73	12	43962095	PIPE CHAMFERING M/C-SAFOP TUBMATIC 800
74	12	46572722	UNIVERSAL PORTABLE DRILLING M\C BPR 50
75	12	61613502	SHOT BLASING & PAINTING-2001 BM:2K205
76	1A		PEDESTRAL GRINDER
77	1A	20003124	SUB ARC WELDING MACHINE
78	1A	41270302	CENTRE LATHE-LB20/1000
79	1A	41281689	NL26 LATHE
80	1A	46570032	RADIAL DRILLING M/C-VRM50
81	1A	48210106	HORIZONTAL BORING-BH100
82	1A	52270504	VERTICAL MILLING M/C-M3V
83	1A	59673472	HORIZONTAL BAND SAW-IT1000DCA
84	1A	59673596	DOUBLE COLUMN BAND SAW-DCA150
85	1A		PEDESTRAL GRINDER
86	1B	43964181	CNC PIPE END CHAMFERING M/C - 900MM (SAFOP-6)
87	1B	47024188	CNC HEADER PIPE DRILLING MACHINE
88	1B	38724305	PINES CNC-150 ROTARY BENDING MACHINE
89	1B	38724374	PINES CNC-150 ROTARY BENDING MACHINE
90	1B	28102697	CNC GAS CUTTING M/C-MAYUR SP
91	1B	28102856	CNC GAS CUTTING M/C-LINECORD-PC
92	1B	31170240	OPEN SIDE ECCENTRIC PRESS-LE250/40
93	1B	46520461	RADIAL DRILLING M/C-RM65
94	1B	33330243	HYDRAULIC PRESS-CDC30
95	1B	33350371	HYDRAULIC PRESS 250 T
96	1B	37770257	PLATE STRAIGHTENING M/C-XRM 2000/6.3
97	1B	38720007	PIPE BENDING MACHINE CH 6/127
98	1B	38780010	PIPE BENDING M/C-URALMASH 426M
99	1B	41453512	HEAVY DUTY CNC LATHE L45
100	1B	43962094	PIPE CHAMFERING M/CSAFOP TUBMATIC 800
101	1B	46550054	RADIAL DRILLING M/C VR 8
102	1B	46551260	RADIAL DRILLING M/C DR 8
103	1B	49920487	EDGE PLANNING M/C-HHP10
104	1B	59511502	MODERN CUT OFF M/C
105	1B	59514014	MODERN AUTOMATIC CNC CONTROLLED TUBE
106	1B	59672421	BANDSAW-KASTO-HBA 360AU
107	1B	59672585	HORIZONTAL BANDSAW-ROBOTER 650Z
108	1B	59674130	SPECIAL PURPOSE DOUBLE COLUMN BAND SAW 800
109	1B	59740636	PLATE SHEARING M/C NG 30
110	1B	59792654	CNC HYDRAULIC SHEARING M/C
111	1B	59793149	HYDRAULIC SHEARING M/C-GS3113
112	1B	59710631	UNIVERSAL SHEAR AND PUNCHING MACHINE
113	1B	59614786	INDO TECH DCA-1050 BAND SAW
114	1B	59672899	HORIZONTAL BAND SAW-300VA
115	1B	47024624	BFW Gantry drilling machine
116	1A	3040	HYDRO TEST STATION MGS 15

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4. MACHINE ACCESSORIES MAINTENANCE IN DSPS AND ATP

Sl. No	SCOPE OF WORK	QTY																																																						
A4	<p>MAINTENANCE OF MACHINE ACCESSORIES IN DSPS & ATP</p> <p>Scope of the Contract: Carrying out the following activities of Mechanical Maintenance of machines and its accessories in Press shop at BHEL, Trichy.</p> <ol style="list-style-type: none">Cleaning of sub-assemblies and dismantled components while attending the break-down of machines.Cleaning of the machine surface and other accessories & fixtures of the machine for trouble shooting and to access the machine components during maintenance.Cleaning of the machine area after attending the breakdown. All the spillage oil, cotton waste and other wooden wastes to be removed from the surroundings of the machine and moved to the waste bins.Cleaning of oil, chips and dust inside/outside machine pit or non approachable areas of machines before attending maintenance.Cleaning of machine components and stand-by sub-assemblies with kerosene and oil.Movement of machine components from machine area to work bench and vice versa.Movement of raw materials for spares manufacturing to the respective machine shop.Movement of spares, consumables, raw materials, etc from maintenance stores to respective maintenance sections/plant Designs.Assisting in loading & unloading of new, shifted and condemned machines.Cleaning of machines under shifting and assisting the fitters & electricians for dismantling, shifting and re-erection.The details of machines and facilities under maintenance for DSPS & ATP area is as below: <table><thead><tr><th>Sl.No</th><th>Functional Location</th><th>Equipment No</th><th>Machine Name / Type</th><th>PM</th><th>TYPE</th></tr></thead><tbody><tr><td>1</td><td>HPBP-FB-001-01C M</td><td>47042859</td><td>CNC DRILLING / M/C</td><td>-VSPQ63</td><td>20</td></tr><tr><td>2</td><td>HPBP-FB-001-01C L</td><td>48454299</td><td>DRUM EP MACHINE-</td><td>TOS KURIM</td><td>20</td></tr><tr><td>3</td><td>HPBP-FB-001-01C M</td><td>46671748</td><td>RADIAL DRILLING M/C-DRT10</td><td></td><td>20</td></tr><tr><td>4</td><td>HPBP-FB-001-01C M</td><td>46671679</td><td>RADIAL DRILLING M/C-DRT10</td><td></td><td>20</td></tr><tr><td>5</td><td>HPBP-FB-001-01C 20 M</td><td>28840022</td><td>SUB-ARC WELDING</td><td>M/C-SHE1500</td><td></td></tr><tr><td>6</td><td>HPBP-FB-001-01C 20 M</td><td>28844710</td><td>PRIMO AUTOWELDING MACHINE</td><td>SMALL</td><td></td></tr><tr><td>7</td><td>HPBP-FB-001-01D L</td><td>41670350</td><td>CENTRE LATHE-S3150/13000</td><td></td><td>16</td></tr><tr><td>8</td><td>HPBP-FB-001-01D L</td><td>41673515</td><td>CENTRE LATHE-HEAD STOCK-2</td><td></td><td>16</td></tr></tbody></table>	Sl.No	Functional Location	Equipment No	Machine Name / Type	PM	TYPE	1	HPBP-FB-001-01C M	47042859	CNC DRILLING / M/C	-VSPQ63	20	2	HPBP-FB-001-01C L	48454299	DRUM EP MACHINE-	TOS KURIM	20	3	HPBP-FB-001-01C M	46671748	RADIAL DRILLING M/C-DRT10		20	4	HPBP-FB-001-01C M	46671679	RADIAL DRILLING M/C-DRT10		20	5	HPBP-FB-001-01C 20 M	28840022	SUB-ARC WELDING	M/C-SHE1500		6	HPBP-FB-001-01C 20 M	28844710	PRIMO AUTOWELDING MACHINE	SMALL		7	HPBP-FB-001-01D L	41670350	CENTRE LATHE-S3150/13000		16	8	HPBP-FB-001-01D L	41673515	CENTRE LATHE-HEAD STOCK-2		16	12 NO
Sl.No	Functional Location	Equipment No	Machine Name / Type	PM	TYPE																																																			
1	HPBP-FB-001-01C M	47042859	CNC DRILLING / M/C	-VSPQ63	20																																																			
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9	HPBP-FB-001-01D DRT10 20 M	46663518	TRAVELLING COLUMN DRILLING M/C-
10	HPBP-FB-001-01D DRT10 20 M	46663519	TRAVELLING COLUMN DRILLING M/C-
11	HPBP-FB-001-01D BLATTER 20 M	57634581	NEW LONG SEAM GRINDER -FARROS
12	HPBP-FB-001-01D M/C-OLD 20 S	57632019	CIRCUMFERENTIAL SEAM GRINDING
13	HPBP-FB-001-01D M/C-NEW 20 S	57633450	CIRCUMFERENTIAL SEAM GRINDING
14	HPBP-FB-001-01D WEILER 20 M	46664298	TRAV.COLUMN.RADIAL DRILLING M/C-
15	HPBP-FB-001-01D	28964150	CU BUILT SAW OD 5 16 M
16	HPBP-FB-001-01D F	15230206	CAR BOTTOM FURNACE-50T 24
17	HPBP-FB-001-01D F	15240207	CAR BOTTOM FURNACE-100T 24
18	HPBP-FB-001-01D M	28962114	OD WELDING M/C -CAYUGA 16
19	HPBP-FB-001-01D M/C 16 M	28963230	COLUMN & BOOM SUB-ARC WELDING
20	HPBP-FB-001-01D 20 L	48280047	HORIZONTAL BORING M/C-WD160
21	HPBP-FB-001-01D HZFS2800 16 L	49881678	DOUBLE COLUMN PLANING M/C-
22	HPBP-FB-080-01D 20 M	57632018	LONG SEAM GRINDER -FARROS BLATTER
23	HPBP-FB-001-01E M	28881515	ESAB OD WELDING M/C-AUTO 20
24	HPBP-FB-001-01E CDC30 20 S	33330246	SINGLE UPRIGHT HYDRAULIC PRESS-
25	HPBP-FB-001-01E F	15220205	BOGIE HEARTH FURNACE-10T 24
26	HPBP-FB-001-01E Y1198 20 L	47012613	CNC HORIZONTAL.GUN DRILLING M/C-
27	HPBP-FB-001-PFP S	41270302	CENTRE LATHE-LB20/1000 20
28	HPBP-FB-001-PFP S	41282655	CENTRE LATHE NH26/1000 20
29	HPBP-FB-001-PFP S	44743288	CNC SLANT BED LATHE-STC25 20
30	HPBP-FB-001-PFP S	44743289	CNC SLANT BED LATHE-STC25 20
31	HPBP-FB-001-PFP 20 S	51350740	HORIZONTAL MILLING M/C-M3H
32	HPBP-FB-001-PFP	52270510	VERTICAL MILLING M/C-M3V 20

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33	HPBP-FB-080-197	28964154	CU BUILT SAW OD 6	16	M
34	HPBP-FB-080-197	28973168	NARROW GAP ARC WELDING M/C		
	1/TRC 5MX4M 20 M				
35	HPBP-FB-080-197	28992537	AUTO WELDING PLANT AMBR		
	50/5000(SCHAFFER) 20 M				
36	HPBP-FB-080-197	28760235	SUBMERGED ARC WELDING M/C		
	20 M				
37	HPBP-FB-080-197	58993169	LONG SEAM GRINDING MACHINE-		
	ANSALDO 20 M				
38	HPBP-FB-080-197	28962885	ADORE-SAW MACHINE 20	M	
39	HPBP-FB-080-197	15932238	CAR BOTTOM FURNACE 300 T(GAS		
	FIRE D) 24 F				
40	HPBP-HE-080-197	28754738	PRIMO COLUMN AND BOOM WELDING		
	MACHINE 20 M				
41	HPBP-HE-080-197	28754738	PRIMO COLUMN AND BOOM WELDING		
	MACHINE 20 M				
42	HPBP-FB-059	15911302	PLATE HEATING FURNACE 46T	24	F
43	HPBP-FB-059	32132974	HYDRAULIC PRESS H25/25/100020		M
44	HPBP-FB-059	32150092	HYDRAULIC PRESS 2000 T	16	L
45	HPBP-FB-059	32184590	NEW HYDRAULIC PRESS 8000T	16	L
46	HPBP-FB-059	32182285	HYDRAULIC PRESS 8000T	16	L
47	HPBP-FB-059	61610113	SHOT BLASTING P7-500R	20	S
48	HPBP-FB-059	15922237	PLATE HEATING FURNACE 150 T	24	F
49	HPBP-FB-094	15411492	0.5T FURNACE 24	F	
50	HPBP-FB-094	17232761	CAR BOTTOM FURNACE 10 TON WESMAN		
	24 F				
51	HPBP-FB-094	33472780	STRAIGHTENING PRESS -ISGEC 600T	20	
	M				
52	HPBP-FB-094	33770019	HYDRAULIC PRESS 500 T CBJ 500	20	
	M				
53	HPBP-FB-094	41412631	HEAVY DUTY CENTRE LATHE L50/2000	20	
	M				
54	HPBP-FB-094	59673510	HORIZONTAL BAND SAW -DCA 650	20	
	S				
55	HPBP-FB-094	61612787	SHOT BLASTING MACHINE	20	L
56	HPBP-FB-094	59674136	BAND SAW MACHINE 650MM-DOUBLE		
	COLUMN 20 S				
57	HPBP-FB-094	48022778	CNC HORIZONTAL BORING UTA-160P	16	
	L				
58	HPBP-FB-094	48024156	GEETHA HORIZONTAL BORING M/C	20	
	M				
59	HPBP-FB-094	48024157	GEETHA HORIZONTAL BORING M/C	20	
	M				
60	HPBP-FB-094	17644200	40T LPG FURNACE	24	F
61	HPBP-FB-094	42231261	VERTICAL BORING M/C BV 12	20	M
62	HPBP-HE-066	41270293	CENTRE LATHE LB 20/1000	20	S

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63	HPBP-HE-066	47053179	CNC DRILLING MACHINE TYPE:BDC 50	20
64	HPBP-HE-066	48210477	HORIZONTAL BORING M/C H 100A	20
	M			
65	HPBP-HE-066	52273473	VERTICAL MILLING MACHINE FN3V	20
	S			
66	HPBP-HE-066	48024733	CNC HORIZONTAL BORING- HMT	20
	L			
67	HPBP-HE-109-001	47621813	CNC GUN DRILLING M/C AVEY	16
	L			
68	HPBP-HE-109-001	48324604	HORIZONTAL BORING MACHINE/JIER	
	16 L			
69	HPBP-HE-109-001	42413801	CNC VERTICAL BORING MACHINE-	
	WUHAN 20 L			
70	HPBP-HE-109-001	28102698	WATERJET CUTTING MACHINE	20
	M			
71	HPBP-HE-109-002	2896-4562	SUBMERGED ARC WELDING MACHINE -	
	ESAB(NEW) 20 M			
72	HPBP-HE-077	43994149	GEEDEE WEILERNIL	S
73	HPBP-HE-077	28674338	TUBE TO TUBE SHEET ORBITAL TIG WELDING	
	nil S			
74	HPBP-HE-077	2867-4613	TUBE TO TUBE SHEET ORBITAL TIG WELDING	
	nil S			

12.It is preferred to supply same contract employees (in the age group of 18 to 45 years) without frequent changing for the entire period of contract.

13. The contract employees may be required to come in shifts (G/A) as per the requirement of BHEL. The timing regarding the shifts will be same as that of the existing practices of BHEL, Trichy.

14. All the materials involved in the contract will be provided by BHEL free of cost.

15. 130 Man-days (unskilled) required tentatively per cycle to carry out the above activities.

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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) 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.

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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 15% 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 pro-rata basis 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. SD is forfeited in case of any failure in execution of the contract or due to any shortcomings observed in the documentation furnished earlier for getting qualified or in case the Contractor is banned.
- 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 Tamil Nadu:

Unskilled	-	Rs.3200/-
Semiskilled	-	Rs.3700/-
Skilled	-	Rs.4100/-
- 6) Bonus @ 8.33 % to workmen to be paid.
- 7) The vendor shall only quote percentage rate as mentioned in the price bid format.
- 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: 1) Reclamation of Hydraulic and Lub oil

2) Machine Accessories Maintenance at DSPS,ATP, Bldg.1, Bldg.-50

Ref: Enquiry no: 9241700009 Dated: 06/04/2017. Due date: 03/05/2017, 14.00 Hrs.

1.RECLAMATION OF HYDRAULIC AND LUB OIL

Sl. No	Description	Qty	UOM	Rate	Value
A1	RECLAMATION OF HYDRAULIC AND LUB OIL	100	BL		

2.SERVICES AND MAINTENANCE OF FACILITY ITEMS FOR 32 MACHINES IN BLDG.50

Sl. No	Description	Qty	UOM	Rate	Value
A2	SERVICES AND MAINTENANCE OF FACILITY ITEMS FOR 32 MACHINES IN BLDG.50	12	NO		

3.MACHINE ACCESSORIES MAINTENANCE FOR BLDG-1, Bay 1 to 12 and 1A /1B

Sl. No	Description	Qty	UOM	Rate	Value
A3	MACHINE ACCESSORIES MAINTENANCE FOR BLDG-1, Bay 1 to 12 and 1A /1B	12	NO		

4.MACHINE ACCESSORIES MAINTENANCE IN PRESS SHOP AND ATP

Sl. No	Description	Qty	UOM	Rate	Value
A4	MACHINE ACCESSORIES MAINTENANCE IN PRESS SHOP AND ATP	12	NO		

(*) L1 Vendor will be finalized based on Individual Item basis.

❖ 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.

Sign & Seal of Contractor