

**BHARAT HEAVY ELECTRICALS LTD.
CENTRAL FOUNDRY FORGE PLANT
RANIPUR, HARDWAR
MAINTENANCE & SERVICES DEPARTMENT
MAINTENANCE-FORGE SHOP**

Ref: FF: 19: MFG: RC: MM: 01

Dt. 21/05/2019

TENDER NOTICE – OPEN TENDER

Two part Tenders in Sealed Envelopes are invited from technically and financially capable parties, having experience in work similar to- and interested in- the under mentioned works. The tender documents are available at website www.bhel.com/www.bhelhwr.co.in in Tender Notification Section which can be downloaded. The tender should be duly filled with all the documents attached. The tender should reach the place specified below **on or before 14.06.2019 at 01:30 PM** which will be opened on the **same day at 02:00 PM** in presence of the bidders who wish to be present at:

Tender Room

Administrative Building

CFFP, BHEL Haridwar – 249403

Bidders are advised to inspect the site before quoting their rates. Bidders are also advised to go through the Special Instructions attached to this notice. (ATTACHMENT-A)

BHEL reserves the right to reject any or all of the tenders without assigning any reason thereto.

Tender No. & Date	Description of Work	Earnest Money	Total Time of completion	Tender Cost
FF: 19: MFG: RC: MM: 01, Dated- 18/05/2019	Works contract for “Assistance to production during operation and Preventive/Breakdown maintenance of Presses, Manipulators, Furnaces, Machines in CMW, Rewinding work in Electrical repair shop and maintaining stores of HFS & MFS”.	Rs. 1.75 lakhs /- (one lakh seventy five thousand only)	12 Months	Rs.200

(Udbhav Mukesh)
Sr..Engr./M&S
CFFP, BHEL
Ranipur, Haridwar
Contact No. 01334-284165
E-mail ID: udbhav@bhel.in

Copy To. :DGM (works) : for deputing finance representative for tender opening.

Signature of Issuing Officer

Signature of Bidder/Tenderer

ATTACHMENT-A**SPECIAL INSTRUCTIONS**

1. Kindly read this set of Special Instructions carefully before filling up the tender form.
2. **Pre-Qualification Requirements placed at Annexure D must be fulfilled by the vendor to participate in the tender and submitted along with Techno-Commercial Bid.**
3. The bidders are to submit the tender form along with all Annexures as well as this set of Special Instructions (Attachment-A); all pages duly signed.
4. The tender is to be submitted in two parts, viz.: i) Techno Commercial Bid and ii) Price Bid. Documents related with Pre-Qualification Requirements i.e. Annexure-D must be submitted along with Techno-Commercial Bid.
5. Both the Techno Commercial Bid and Price Bid are to be sealed separately in separate envelopes super-scribed with **“Techno Commercial Bid for Tender no. : “FF: 19: MFG: RC: MM: 01”** and **“Price Bid for Tender no. : “FF: 19: MFG: RC: MM: 01”** respectively and then placed in a common envelope super-scribed with **“Tender for Tender No.: “FF: 19: MFG: RC: MM: 01”**. The Techno Commercial Bid must also contain an un-priced copy of Price Bid.
6. Only the Techno Commercial bid will be opened on the day of tender opening. The Priced Bid will be opened only if Techno Commercial Bid(s) are found Technically Suitable & Acceptable. Date of opening of Price Bid will be intimated to all technically suitable and acceptable bidders at a suitable time.
7. Once Price Bids are opened and accepted by BHEL, the same cannot be withdrawn by the bidder for whatsoever reasons. In case a bidder withdraws his/her/their tender, suitable action may be taken by BHEL as deemed fit. This may include black listing of bidder or legal action.
8. If there is a difference found in the figures & words of the offered price. The price given in the words will be considered.

(Issuing Officer)

Signature of Issuing Officer

Signature of Bidder/Tenderer

BHARAT HEAVY ELECTRICALS LTD.
CENTRAL FOUNDRY FORGE PLANT
RANIPUR, HARDWAR
MAINTENANCE & SERVICES DEPARTMENT
MAINTENANCE-FORGE SHOP

TENDER FORM for “Assistance to production during operation and Preventive/Breakdown maintenance of 9000T press and 32/65mT manipulator of Heavy Forge Shop”.

(PRICE BID)

PRICED/UNPRICED

(PRICED PRICE BID TO BE SEALED IN SEPARATE ENVELOP)

Name & Address of Bidder	:	
Tender Notice No.	:	FF: 19: MFG: RC: MM: 01; Dated: 22/05/2019
Tender cost	:	Rs. 200
Last Date & Time for receipt of Tender	:	13:30 hrs on 14/06/2019
Date & Time for opening of Tenders	:	14:00 hrs on 14/06/2019
Place for opening of Tenders	:	Tender Room, CFFP, BHEL
Estimated Value	:	Rs. 87.2 lakhs/-
Nature of Contract	:	Works contract for “Assistance to production during operation and Preventive/Breakdown maintenance of Presses, Manipulators, Furnaces, Machines in CMW, Rewinding work in Electrical repair shop and maintaining stores of HFS & MFS”.
Period of Contract	:	12 months

SCOPE OF WORK

Sl. No	Activity description	Total Jobs (Units) (Quantity)
01.	FW0320000158: Assistance to production during operation of 9000 T forging press and 32/65 mT manipulator	1200 U
1.1	Checking oil level in manipulator and filling if necessary	(Attending any/ all activities during Production for the duration of 8 hrs of Activity 01 therefore one hour of Press and Manipulator operations corresponds to 0.25U of work.)
1.2	Checking oil level in oil hydraulic & filling if necessary.	
1.3	Checking water level in Press cellar and draining it by starting water drain pumps	
1.4	Filling of Water in lower Pressure tank of Press	
1.5	Filling of air in Low Pressure tank of Press	
1.6	Starting of Booster Pump and Main Pump	
1.7	Opening of HP Shut off Valve	
1.8	Checking all operations of Press and handing over if OK	
1.9	During Forging Water level monitoring so that it don't fall up to zero	
1.10	Resolving small complaints like pressing slowly, returning slowly, table slow etc	
1.11	Monitoring pumps so that it loads and unloads properly (any faulty sequence	

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	will result in escaping of compressed air, if shut off valve not manually closed.)	
1.12	Monitoring of water level in cellar and starting pumps according to requirement	
1.13	Maintaining speeds of press according to job/production requirement	
1.14	Maintaining manipulators speed according to requirements	
1.15	Checking of water level in overhead tank	
1.16	Checking of air pressure in low pressure tank	
1.17	Increasing pressure for a large sized job	

Sl. No	Activity description	Total Jobs (Units) (Quantity)
02.	FW0320000159: Breakdown and preventive maintenance of Pumps No 05, 06, 07, 08, 09, 10 and Booster Pump – 02nos.	761 U
2.1	Repair, replacement of Check valve	(Attending Any one job 2.1 to 2.8 equivalent to weighted one unit of job)
2.2	Repair, Replacement of Tandem Valves	
2.3	Repair and Replacement Of parts of Stuffing Boxes, Filling of glands, Tightening of Nuts and Fixing of Plates and checking/ arresting water leakages	
2.4	Repair of Pilot valve, By pass Valve, Cleaning of Filters of Lube oil circuit	
2.5	Checking of oil level in crank case assemblies, Cleaning of crank case and changing Oil	
2.6	Fixing, tightening and welding of clamps and mountings of suction and discharge lines and Draining the water collected in the cellar of the Pump Station.	
2.7	Dismantling, cleaning, repair of boost pump, valve, motor along with complete assembly.	
2.8	Rectification of Spare parts and Repairing them.	

Sl. No	Activity description	Total Jobs (Units) (Quantity)
03.	FW0320000160: Preventive and breakdown maintenance of Main Control , Table control, Step control and Switch control.	660 U
3.1	Greasing of Rocker Assembly, checking of Bracket of Hydraulic Cylinder assembly. Checking the feedback device and Rubber coupling. Leakage of Hoses connecting Hydraulic cylinders.	(Attending Any one job 3.1 to 3.4 equivalent to weighted one unit of job)
3.2	Repair and Replacement of Lip Packing in the lifting Pin assembly. Checking the assembly and repair/ replacement of damaged parts AND Greasing the lifting pin and bushes. Replacement of worn out Lifting Pins and Guide bushes.	
3.3	Checking/ Repair/ replacement of the control valves and Replacement of damaged sealing Rings and Packings.	
3.4	Setting of the control valves.	

Sl. No	Activity description	Total Jobs (Units) (Quantity)
04.	FW0320000161: Preventive and Breakdown maintenance of Main cylinder assembly, Filling valve assembly, Table cylinder assembly, Return Cylinder assembly, Auxialliary return cylinder assembly.	620 U
4.1	Tightening of flange of Main cylinder assembly to reduce leakage from the Packing.	(Attending Any one job 4.1 to 4.12 equivalent to weighted one unit of job)
4.2	Replacement of Packing of Main Plungers assembly	
4.3	Greasing of columns	

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4.4	Welding of ribs to hold main cylinder in position and tightening of the bolts at the top of main cylinder assembly and filling valve assembly.	
4.5	Replace and Repair of Filling valve 3 nos	
4.6	Replacement of sealing ring from the Top of Main cylinder assembly	
4.7	Replacement of Packing from the top of Filling Valve	
4.8	Replacement/ Repair of packing and sealing rings of Low pressure line and high Pressure line.	
4.9	Replacement of Packing of Return Cylinder assembly	
4.10	Replacement of Packing of Table cylinder assembly	
4.11	Replacement of Packing of Auxilliary Return Cylinder assembly	
4.12	Replacement of sealing rings and tightening of bolts for arresting leakages from high pressure line and Rectification and repair of distributor and over head high pressure pipe lines	

Sl. No	Activity description	Total Jobs (Units) (Quantity)
5.	FW0320000162: Preventive and breakdown maintenance of Spring Loaded valve, Junction Box, Shut off valve , automatic shut off valve, NRV, replacement of anker bolts and die-clamping cylinder.	280 U
5.1	Repair/ cleaning of spring loaded valve.	(Attending Any one job 5.1 to 5.9 equivalent to weighted one unit of job)
5.2	Rectification and repair of the Pilots of Shut off valve to arrest leakage of Level.	
5.3	Repair of shut off valve	
5.4	Repair and replacement of Packing of Automatic shut off valve	
5.5	Repair/ cleaning and lapping of seat of NRV.	
5.6	Tightening of anker bolts	
5.7	Replacement of anker bolts	
5.8	Arresting leakage from die clamping cylinder assembly	
5.9	Replacement of Plunger from die clamping cylinder assembly	

Sl. No	Activity description	Total Jobs (Units) (Quantity)
06.	FW0320000163: Preventive and breakdown maintenance of Hydraulic Power Pack and 32/65mT Manipulator	283 U
6.1	Repair/ Cleaning of Hydraulic valves of all assemblies.	(Attending Any one job 6.1 to 6.6 equivalent to weighted one unit of job)
6.2	Cleaning of Hydraulic Pressure line filters and Return line filters	
6.3	Replacement of worn out hose pipes of the manipulator and Hydraulic Power pack. Arresting leakage from the Pipe lines.	
6.4	Cleaning of Filters of the Manipulator	
6.5	Replacement of the worn out Packings of Hydraulic cylinders and arresting leakages from all fittings, pipelines, hoses etc.	

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Sl. No	Activity description	Total Jobs (Units) (Quantity)
07.	FW0320000164: Electrical maintenance of press and manipulator panels, various controls and field devices.	280 U
7.1	Regular checking and cleaning of panels and electrical contacts	(Attending Any one job 7.1 to 7.4 equivalent to weighted one unit of job)
7.2	Repair/replacement and modification of old wiring and cables along with arranging, dressing, laying and marking.	
7.3	Repair/replacement of Contactors, switches, joysticks, relays and other switch gear items	
7.4	Electrical tuning of control system	

Sl. No	Activity description	Total Jobs (Units) (Quantity)
08	FW0320000166-Work Schedule 01 : Assistance to production during operation of forging press and manipulator:	1200 U
	<ol style="list-style-type: none"> 1. Checking oil level in manipulator and filling if necessary. 2. Checking Manipulator foundation Bolts 3. Checking air Pressure in Manipulator Accumulator and filling if necessary. 4. Checking oil level in oil hydraulic & filling if necessary. 5. Checking water level in Press cellar and draining it by starting water drain pumps. 6. Filling of Water in lower Pressure tank of Press. 7. Filling of air in Low Pressure tank of Press. 8. Starting oil hydraulic & checking Pressure of oil hydraulic 9. Booster pump valve open. 10. LT valve open 11. Opening of HP Shut off Valve. 12. Starting of Booster Pump 13. Starting of main Pump. 14. Checking all operations of Press and handing over if OK. 	(Attending any/ all activities during Production during two shifts of operation of 8 hrs each , therefore one hour of Press and Manipulator operations corresponds to 0.25U of work. 2650T Press runs in 2 shifts.)
	<ol style="list-style-type: none"> 15. Water level monitoring so that it don't fall up to zero. 16. Resolving small complaints like pressing slowly, returning slowly, table slow etc. 17. Monitoring pumps so that it loads and unloads properly (any faulty sequence will result in escaping of compressed air, if shut off valve not manually closed.) 18. Monitoring of water level in cellar and starting pumps according to requirement. 19. Maintaining speeds of press according to job/production requirement. 20. Maintaining manipulators speed according to requirements. 21. Checking of water level in overhead tank. 22. Checking of air pressure in low pressure tank. 23. Increasing pressure for a large sized job. 24. Switching on pumps according to requirement of water column. 	

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Sl. No	Activity description	Total Jobs (Units) (Quantity)
09.	FW0320000167-Work Schedule 02 : Breakdown & Preventive Maintenance of main control block, table block, switch control and step control:	640 U
9.1	Dismantling of assembly and replacement of rocker bush of drive and feed back end of Main Control	(Attending any one job from 9.1 to 9.20 equivalent to weighted one unit of job)
9.2	Dismantling of assembly and replacement of damaged/worn out packings of Main control.	
9.3	Dismantling & assembling of valves. Repair, replacement and adjustment of control valves and seats of Main Control Block.	
9.4	Dismantling of lifting pin assembly, repair, replacement and adjustment of Main Control.	
9.5	Dismantling of guide bush assembly, repair, replacement and adjustment of Main control.	
9.6	Dismantling of EMG valve, cleaning, replacement of packings/ seals, assembly, mounting, testing and adjustment.	
9.7	Dismantling, repair and replacement of oil hydraulic pistons of Main control Block	
9.8	Dismantling and repair/rectification of rocker of Main control Block.	
9.9	Dismantling, repair/ rectification and mounting check valves of long table control block.	
9.10	Rectification, repair and replacement of pilot and high pressure connectors and ferule of pipe lines of long table control block	
9.11	Dismantling, repair and replacement of packings & bushes of Long table control block.	
9.12	Dismantling, repair and replacement of packings of long table Cylinders.	
9.13	Dismantling, cleaning, repair and tuning of magnet/solenoid assembly of long table control block	
9.14	Dismantling, repair/ rectification and mounting check valves of cross table control block.	
9.15	Rectification, repair and replacement of pilot and high pressure connectors and ferule of pipe lines of cross table control block	
9.16	Dismantling, repair and replacement of packings & bushes of Cross table control block.	
9.17	Dismantling, repair and replacement of packings of cross table Cylinders.	
9.18	Dismantling, cleaning, repair and tuning of magnet /solenoid assembly of cross table control block	
9.19	Dismantling, cleaning, repair and replacement of Step control valves	
9.20	Dismantling, cleaning, repair and replacement of Switch control valves	

Sl. No	Activity description	Total Jobs (Units) (Quantity)
10.	FW0320000168-Work Schedule 3 :Breakdown & Preventive maintenance of Mercury unit and Accumulator station:	220 U
10.1	Dismantling of mercury unit, cleaning and drying of water from unit, cleaning of	(Attending

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	electrical contacts, filling/removing of mercury from unit along with assembly and trial.	any one job from 10.1 to 3.4 to weighted one unit of job equivalent)
10.2	Repair of high Pressure Valves for Accumulator	
10.3	Operation and maintenance of high pressure compressor for filling air in high pressure vessel.	
10.4	Dismantling, cleaning and repair of mercury unit high pressure valves.	

Sl. No	Activity description	Total Jobs (Units) (Quantity)
11.	FW0320000169-Work Schedule 4: Breakdown & Preventive Maintenance of high Pressure Pumps (01,02,03) & Booster Pump:	410 U
11.1	Repair of check valve	(Attending any one job from 11.1 to 11.8 equivalent to weighted one unit of job)
11.2	Repair of Stuffing Box	
11.3	Repair of Tandem valves	
11.4	Repair of lubrication pump, cleaning and changing of filter unit, checking and making of oil level.	
11.5	Cleaning and repair of circulation and cooling lines along with heat exchanger.	
11.6	Fixing, tightening and welding of clamps and mountings of suction and discharge lines.	
11.7	Dismantling, repair, cleaning and mounting of bypass valve.	
11.8	Dismantling, cleaning, repair of boost pump, valve, motor along with complete assembly.	

Sl. No	Activity description	Total Jobs (Units) (Quantity)
12.	FW0320000170-Work Schedule 5: Breakdown & Preventive Maintenance of high presure line, shut off valve and automatic shutoff valve:	420 U
12.1	Welding of High pressure Lines	(Attending any one job from 12.1 to 12.4 equivalent to weighted one unit of job)
12.2	Repair of shut off valve	
12.3	Repair of automatic shut off valve	
12.4	Repair of Pilot valve of automatic shut off valve	

Sl. No	Activity description	Total Jobs (Units) (Quantity)
13.	FW0320000171-Work Schedule 6 : Breakdown & Preventive maintenance of Return Plunger,Main Plunger,die clamping & mounting system, Distributor system & filling valves:	240 U
13.1	Dismantling, replacement and assembly of return cylinder packings.	(Attending any one job from 13.1 to 13.7 equivalent to
13.2	Dismantling replacement and assembly of copper rings of return cylinder.	
13.3	Dismantling, repair, replacement and assembly of die clamping plunger/ Cylinder	

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13.4	Fabrication and removal of temporary platform on moving cross head for replacement of main packings.	weighted one unit of job)
13.5	Dismantling of flange, removal of old packings, replacement of new packings and final fixing and tightening of flange & Removal of platform	
13.6	Dismantling, repair/rectification, replacement of packings ,assembly of filling valve 3 Nos.	
13.7	Rectification and repair of distributor and overhead high pressure pipe lines.	

Sl. No	Activity description	Total Jobs (Units) (Quantity)
14	FW0320000172-Work Schedule 7 : Breakdown & Preventive maintenance of manipulator rotation and travel gearboxes, lifting and shifting cylinders:	400 U
14.2	Repair of travelling gear box	(Attending any one job from 14.1 to 14.11 equivalent to weighted one unit of job)
14.3	Repair of rotation Gear box	
14.4	Change of Packing of Front Lifting cylinder	
14.5	Change of Packing of rear Lifting cylinder	
14.6	Change of Packing of Front Side shifting cylinder Packings	
14.7	Repair of Manipulator Jaw Lever Pins	
14.8	Repair of Piston accumulator assembly	
14.9	Welding of High Pressure pipes of Manipulator	
14.10	Repair of Cooling pump	
14.11	Repair of Main Pumps & Motors	
14.12	Repair of Clamping cylinder at the rear of manipulator	

Sl. No	Activity description	Total Jobs (Units) (Quantity)
15.	FW0320000173-Work Schedule 8 : Electrical maintenance of press and manipulator panels, various controls and field devices:	500 U
15.1	Regular checking and cleaning of panels and electrical contacts.	(Attending any one job from 15.1 to 15.4 equivalent to weighted one unit of job)
15.2	Repair/replacement and modification of old wiring and cables along with arranging, dressing, laying and marking.	
15.3	Repair/replacement of Contactors, switches, joysticks, relays and other switch gear items.	
15.4	Electrical tuning of control system.	

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Sl. No	Activity description	Total Units
16	FW03200000008: Cleaning of burners in furnaces(forge and foundry)	400U
17	FW03200000087: Repair and replacement of burners in Furnaces (For Forge and Foundry)	500U
18	FW03200000083: Dismantling, repair, assembly and trial run of various valves , regulators and pipe line of furnaces (For Forge shop only)	175U
19	FW03200000084: Dismantling, repair, assembly, alignment and trial run of Blower and door drive of furnaces (For Forge shop only)	150U
20	FW03200000085: Dismantling, repair, assembly, alignment, coupling and trial run of gear box and auxillaries of bogie drive unit (For Forge shop only)	200U
21	FW03200000086 : Lubrication of Moving parts of Furnaces (For Forge shop only)	75U
22	FW03200000183: Maintenance of Furnace panels, starters, blowers, ID fan , Motors etc (For Forge shop only)	150U

	Activity description	Total Units
23	FW0320000187: Operation of Machines in CMW of Forge shop.- work include machining operations on lathe machine, milling machine, Shaper machine and Horizontal boring machine in Two shifts. The work carried out will be for the maintenance activities of all the shops.	1000 V
24	FW0320000188: Upkeep material and records of Stores of HFS and MFS- Work includes material and record upkeep, loading and unloading material from the central stores, Material receiving and issuing in Shops.	500 V
25	FW0320000189: Rewinding of Motors, Transformers, coils etc. in ERS of Forge Shop	500 V

Note – For all the activities (from 01 to 22) mentioned above, each activities have been categorized in sub- activites which have **defined weighted unit value**.

Total no. of Units (From 01 to 22) = **9764 Units (U)**.

Note – For all the activities (from 23 to 25) mentioned above, each activities have been categorized in sub- activites which have **defined weighted unit value**.

Total no of Units (From 23 to 25) = **2000 Units (V)**.

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<p>(1) Quoted value of (U) (Excluding GST)</p>	<p>Total units :9764 U</p> <p>Price (in Rs) per unit: _____ <i>(price per unit to be quoted by vendor in number)</i></p> <p>Amount of U in Rs.: _____</p>
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<p>(2) Quoted value of (V) (Excluding GST)</p>	<p>Total units : 2000 V</p> <p>Price per unit: _____ <i>(price per unit to be quoted by vendor in number)</i></p> <p>Amount of V in Rs.: _____</p>
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<p>(3) Total Quoted value of (U+V) (Excluding GST)</p>	<p>Total Amount = _____ (Amount of U) + _____ (Amount of V)</p> <p>Total Amount _____ <i>(price per unit to be quoted by vendor in number)</i></p> <p>Total Amount : _____ <i>(price per unit to be quoted by vendor in words)</i></p>
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Note- the L1 will be decided on Total Quoted value of (U+V) as given in Sl. No.-03.

Enclosures:

1. Annexure-A: Undertaking by contactor
2. Annexure-B : Manpower deployment, qualification, experience
3. Annexure-C : Special terms and conditions
4. Annexure-D: Pre-Qualification Requirements

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Annexure -A**UNDERTAKING***(By the contractor)*

1	I/We have carefully perused all the terms and conditions of the tender, NIT including special conditions mentioned in the tender before quoting the offer and I/we commit to abide by them in too. I/we have read BHEL General Conditions of Contract and agree to abide by the same.
2	I/We shall abide by and fulfill the requirement of all the statutory obligations in respect of EPF, ESI, labour license and all other provisions of labor laws applicable to me/us and maintain muster roll, payment register and all other registers/ records as applicable and produce the same to BHEL officials or statutory authorities whenever desired.
3	I/we shall abide by the GST Act/ Rules as applicable.
4	I/we shall decide the number of employees to be deployed for execution of the work and give instruction to my/ our employees. BHEL will have nothing to do or be concerned with the employment of my/our employees.
5	I/we shall provide employment card/identity with photograph duly verified and attested by me/ us to my/our employees.
6	I/we shall ensure payment of ESI contribution under ESI Act, 1948 and provide ESI membership card to each of my/our employees.
7	I/we shall pay minimum wages as applicable from time to time including leave with wages to my/our workers as per rules /act.
8	In case of non-compliance of any of the statutory obligations, labour laws by me/us, I/we shall be responsible for all expenses/liabilities occurring /accruing on BHEL because of this including all expenditure on legal proceedings. All such expenses including overheads shall be recoverable from any of my / our running contract with BHEL or any contract entered thereafter.
9	I/we shall maintain valid labour licence throughout the period of contract.
10	I /We agree your Payment terms of E-mode & Mode of payments as per clause No.24 of Special Conditions.
11	I shall be responsible for any accident of my labour in absence of using any safety / Environmental
12	Details of earnest money enclosed with the offer:
(a)	Amount:
(b)	(i) Cash Receipt No. Date
	(ii) Demand draft No. Date Bank
Signature & Name of Contractor	
Date	

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Annexure: B

MANPOWER DEPLOYMENT, QUALIFICATION and EXPERIENCE

MANPOWER DEPLOYMENT: The main responsibility of the deployed work force will be smooth operation of Forging presses, manipulators, Furnaces along with its auxiliaries under consideration. For this, the Site Engineer (BHEL Executive) will deploy adequate no. of persons with adequate skill and experience. The desirable manpower and their minimum qualification criteria required to be supplied by the contractor at the site are as listed below:

1. **Shift Supervisors:** The shift supervisors will basically act as team leaders for the workforce deployed on any work. The supervisors must be well qualified and experienced. The minimum qualification for Shift Supervisors will be Diploma (in respective engineering) or ITI (in respective discipline) with minimum 8 years' experience in maintenance/reconditioning/retrofitting of machines or B.Tech.

2. **Fitters/Welder:** They should have an 5 years' experience in Maintenance of Open Die Forging Press and Manipulator of 2000T and 10T respectively **or** qualification of ITI (Mechanical Fitter/Welder)

3. **Electricians:** They should have an 5 years' experience in maintenance of Open Die Forging Press and Manipulator of 2000T and 10T respectively or qualification of ITI (Electrical/Electronics)

The overall team must be experienced and must also be capable of handling maintenance activities and have basic knowledge of electrical, mechanical, hydraulics and electronics.

The deployment of workforce will be in two shifts on regular basis and in the third shift as per the exigencies of the work.

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ANNEXURE: C
SPECIAL TERM AND CONDITIONS

1	<p>The contractor shall have to comply with the following during execution of the contract.</p> <p>1.1 Valid labour license issued from Asstt. Labour Commissioner (State) Uttarakhand. 1.2 P.F. code and abide by the relevant laws/rules. 1.3 E.S.I. code and abide by the relevant laws/rules. 1.4 Service Tax registration and abide by the relevant laws/rules.</p>
2	The contractors are advised to see the site, terms & conditions before quoting the rates.
3	The work may need deployment of labours in two or more shifts to complete the work in stipulated time and as per requirement of the job. The contractor shall observe provisions of the Factories Act/ Rules in respect of working hours, holidays, rest intervals, leaves and overtime to his employees. Work in second / third shift, overtime, Sundays or on other declared holidays should be carried out after getting written permission from Engineer In-charge.
4	<p>Contractor shall decide the number of employees to be deployed for execution of the work awarded to him and he or his authorized representative will be solely entitled to dictate such workers about the manner of carrying out the work as per the prescribed specifications and quality plan. However, contractor shall inform BHEL for engaging/ removing the labour for executing the work.</p> <p>If BHEL Engineer feels that the manpower is not sufficient to complete the job(s) within stipulated time or meet the requirement of the work, the contractor shall increase the number of employees suitably. The augmentation of manpower may be suitably decided by mutual discussion between BHEL & contractor.</p>
5	The contractor shall not employ a worker less than 18 years of age on the premises of BHEL or otherwise during execution of his work.
6	Contractor will be responsible for good conduct of his employees. In case of any misconduct / misbehavior by any employee, the contractor will replace such employee(s) immediately.
7	<p>Contractor shall pay minimum wages as applicable from time to time including leave with wages to their workers as per rules /act and any changes made thereafter. The rates of minimum wage effective from 01.02.2019</p> <p>Supervisor :Rs.559.46 per day Skilled :Rs 559.46 per day Semi-skilled : Rs. 510.69 per day Un Skilled labour : Rs 458.12 per day</p> <p>The rates are statutory in nature and are subject to change as per govt. regulations.</p>
8	In case of noncompliance of any of the labour laws e.g. payment of minimum wages to his employees or remittance of contribution to the concerned authorities etc., the contractor shall be responsible for all the expenses /liability occurring / accruing on BHEL because of this including all expenditure of legal proceedings. All such expenses including overheads shall be recoverable from the contractor from any of his running contracts/security deposit/other dues with BHEL or from any contract entered with BHEL thereafter.
9	BHEL shall have the probity of the contract with the contractor only and will give instructions to the contractor or his authorized representatives. BHEL will have nothing to do or be concerned with the employment of employees working for the contractor. The relationship between BHEL and the contractor will be that of independent entities and nothing herein contained will amount to joint venture, partnership or an employer-employee relationship.
10	The work shall be governed by scope of work, general terms and conditions of BHEL

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	contract, special conditions, environment-related conditions, safety clause and any other relevant condition mentioned here.
11	<p>EMD : Rs. 1.75 lakh /- (one lakh seventy five thousand only)</p> <p>Modes of deposit The EMD may be accepted only in the following forms:</p> <p>(i) Cash deposit as permissible under the extant Income Tax Act (before tender opening) (ii) Electronic Fund Transfer credited in BHEL account (before tender opening) (iii) Banker's cheque/ Pay order/ Demand draft, in favour of BHEL (along with offer)</p> <p>Earnest Money deposited by the tenderer will be forfeited if:</p> <p>11.1 After opening the tender, the tenderer revokes his tender within the validity period or increases his earlier quoted rates.</p> <p>11.2 The tenderer does not commence the work within the period as per LOI / Contract. In case the LOI / contract is silent in this regard then the work shall have to be started within 15 days after award of contract.</p> <p>11.3 EMD given by all unsuccessful tenderers shall be refunded normally within fifteen days of acceptance of award of work by the successful tenderer.</p> <p>11.4 EMD shall not carry any interest.</p> <p>11.5 Earnest Money in the form of demand draft should be payable at Hardwar. Validity of demand draft should be minimum of 90 days from the date of opening of tender.</p> <p>11.6 One time EMD is acceptable. i.e. Rs 5,00,000/-(Rupees Five lacks Only.)</p> <p>11.7 MSME Certificate Against EMD IS acceptable.</p>
12	This Contract is a fixed Price Contract.
13	Only Special tools and tackles will be provided by BHEL. All other tools will have to be arranged by Contactor for maintenance activities themselves.
14	<p>Security deposit from successful Tenderer shall have to be deposited before start of the work. The rate of security deposit will be as follows: 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.</p> <p>Modes of deposit: The balance amount to make up the required Security Deposit of 5% of the contract value may be accepted in the following forms:</p> <p>i) Cash (as permissible under the extant Income Tax Act) ii) Local cheques of Scheduled Banks (subject to realization)/ Pay Order/ Demand Draft/ Electronic Fund Transfer in favour of BHEL iii) Bank Guarantee from Scheduled Banks/ Public Financial Institutions as defined in the Companies Act. The Bank Guarantee format should have the approval of BHEL iv) Fixed Deposit Receipt issued by Scheduled Banks/ Public Financial Institutions as defined in the Companies Act (FDR should be in the name of the Contractor, a/c BHEL)</p>

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	<p>v) Securities available from Indian Post offices such as National Savings Certificates, Kisan Vikas Patras etc. (held in the name of Contractor furnishing the security and duly endorsed/ hypothecated/ pledged, as applicable, in favour of BHEL)</p> <p>VI) Bank Guarantee from Scheduled Banks/ Public Financial Institution as defined in the Companies Act subject to a maximum of 50% of total security deposit value. The balance 50% has to be remitted either by cash or in the form of security. The Bank Guarantee format should have the approval of BHEL.</p> <p>VII) Security deposit can also be recovered at the rate of 10% / balance from the running bills. However, in such cases at least 50% of the security deposit must be deposited before start of work and balance 50% may be recovered from the running bills. The contractor shall be required to submit a request/no-objection letter for the same.</p> <p>VIII) The security deposit shall not carry any interest.</p> <p><i>NOTE: Acceptance of security deposit will be subject to hypothecation or endorsement on the document in favor of BHEL. However, BHEL will not be liable or responsible in any manner for the collection of interest or renewal of the documents or in any other matter connected therewith.</i></p>
15	All the manpower deployed should have proper experience & qualification as per Annexure (B) as the installation requires sufficient knowledge in terms of work performance and safety.
16	Documents supporting the aforementioned qualifying criteria MUST be submitted by the bidders along with the Techno-Commercial Bid. If it is found at any time that the particulars submitted by the contractor are false, suitable action will be taken. This may lead to cancellation of contract/registration from all the BHEL units & forfeiting of Earnest Money Deposit (EMD) /Security Deposit (SD).
17	Security deposit shall be released as follows: 50% shall be released along with the final bill and balance 50% shall be released after satisfactory completion of the maintenance period of the work after clearing of all dues.
18	In case more than one contractor quotes the Lowest rates, L-1 Contractor will be decided through draw of lottery. Lottery shall be drawn between all the Contractors quoting the lowest rates. Contractor who is declared as the winner in draw of lottery shall be considered as L-1 contractor of subsequent processing of the tender. The tenderers shall have no say in the process of lottery and the decision of BHEL in the same shall be final and acceptable to the tenderers.
19	This is a maintenance work. The exact requirement of manpower cannot be anticipated. Thus manpower deployed may vary in accordance with the quantum of work. (4)
20	GST shall be paid extra as per actual after verification of the same in GST form.
21	No advance payment shall be paid to the contractor. The payment of final bill will be made only after successful completion of the work. All payments to be made to the contractor under this contract shall be through Electronic transfer (E- Mode) within a reasonable time after the certification by the Engineer In-charge.
22	No bill will be entertained until wages of workers till date are paid, PF and ESI deposited for labour engaged in the work and proof of the same submitted along with the bill.
23	Running bills monthly/bimonthly against work contract depending upon the quantum of work performed item wise shall be submitted to the finance for payment within 15 days from the date of measurement, unless there is some problem which shall be supported by documents in this regard in timely manner. Finance will process such bills for payment within 15 days after receiving the bills in Finance.
24	Final bills against work contracts shall be submitted to finance within two months from date of actual completion of work or within one month from date of measurement whichever is

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	earlier unless there is some problem which shall be supported by a document in this regard in timely manner. Finance will process such bills for payment within one month after receiving the bills in Finance.
25	No excuses like hindrance because of extreme weather conditions, availability of labour and material etc. will be entertained for not completing the work.
26	The gate passes/ tokens to be issued by the CISF UNIT shall have to be returned to the pass section of CISF after completion of work, failing which recovery at the rate as applicable shall be made from the contractor.
27	All necessary precautions for safety and environmental aspects shall have to be taken by the contractor for activities performed by his workers.
28	Contractor must ensure that all labour engaged in the work should wear safety personal protective equipment's (PPEs) as directed by Engineer In-charge. In case labours are found working without wearing PPEs as directed, then recovery may be made at the risk and cost of contractor by providing PPEs to labours by BHEL at BHEL purchase cost. In case any accidents of Contractors Labour happens in absence of any safety, Environmental measures etc. contractor will be fully responsible for the same. BHEL is not responsible for the same.
29	Contractor may have to complete the work earlier as advised by Site In charge even before the scheduled period of completion as per the urgency of the work. No excuse for overall completion period will be entertained.
30	<u>Penalty clause:</u> In case of slow progress of work or contractor fails to deploy sufficient workers for timely completion of work as per direction of Engineer In charge and extension is sought beyond the scheduled date of completion then, a penalty of 10% of item value per unit per day subject to a value of maximum 30% of per unit item value shall be imposed. The decision of the Engineer in charge of BHEL shall be final in this regard.
31	In case contractor is unable to deploy sufficient manpower for timely completion of the work due to non-availability or any other reason, BHEL will have the right to deploy required manpower from any source at contractor's risk and cost. The decision of the Engineer in charge of BHEL shall be final in this regard.
32	Rate should be quoted on overall percentage basis for items given in the bill of quantity, exclusive of GST.
33	The complete work will be awarded to single vendor/contractor irrespective of individual item values taking into consideration the cumulative value of items.
34	Contractor must sign on all pages and fill up the offer in all respect. Incomplete offer like cutting/ over writing without authentication is liable to be rejected. If undertaking provided in the tender document is not properly filled or signed, offer is liable to be rejected.
35	BHEL reserves the right to cancel the tender at any stage of tendering till signing of agreement without assigning any reasons thereof.
36	Before submitting any bill to this office the contractor must ensure that they have deposited the GST with Government of India against all payments received by them for work carried out under this department. Contractor shall submit a proof of the same. No bills will be processed unless proof is submitted.
37	Conditional offers will be rejected.
38	In addition to the clauses 30 & 31, BHEL reserves the right to cancel the contract in case the performance of the contractor is not found satisfactory. The SD/ASD of the contractor shall be forfeited in this case. While suitable and timely communication shall be made to the contractor in this regard, BHEL Engineer in-charge's decision shall be final and binding on the contractor.
39	PVC- There will be no price variation as the contract will be awarded at the fixed unit price for the number of jobs.

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Annexure- D Revised
PQR (Pre- Qualification Requirement)

This section details minimum requirement on part of the bidder for “ assistance to production during operation & Preventive/Breakdown maintenance of Presses, Manipulators, Furnaces, Machining facility forge shop, Rewinding Work in Electrical repair shop and maintaining stores of HFS and MFS.

In general, the bidder must satisfy following criteria:

1.0 Should have Executed any one the following mentioned work(s) in the last seven years.

1) Reconditioning/ Annual Maintenance Contract (AMC)/ Maintenance of 2000T Press or higher and 25/32mT Manipulator or higher within last seven years.

OR

2) Annual Maintenance Contract of Machine Tools including mechanical, hydraulic & electrical maintenance consisting of all the following machine tools:-

- a) Vertical Boring Machine of Table dia. 4000 mm or higher size
- b) Horizontal Boring Machine of Spindle dia. 160 mm or higher size
- c) Lathe Machine of bed length 2500 mm or higher

OR

3) AMC of Cranes with minimum 20 numbers of cranes and with at least one crane of minimum 50T capacity.

OR

4) AMC of bogie- hearth Furnaces with minimum 20 numbers of furnaces.

*As a proof, completion certificate(s)/Work Order(s) from the original client(s) must be submitted.
 Any work supporting or facilitating to above work will not be considered.*

2.0 Turnover and Financial Position:

2.1 Average annual financial turnover for the last 3 financial years ending 31st March (i.e. for the financial years 2015-16, 2016-17 and 2017-18), must be not less than Rs.26.18 Lakhs.

(Copy of ITR and Balance Sheet to be submitted)

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2.2 Bidder must submit proof of having carried out successfully work of similar nature during last 7 years ending last date of the month previous to the one in which NIT for this work is issued for the similar works given in Clause 1.0 above of cumulative value of not less than Rs.34.91 Lakhs in any one year of the seven year period with any organization of repute but not the bidders own organization

As a proof, completion certificate(s)/Work Order(s) from the original client(s) must be submitted. In case of AMC, order value per annum will be considered for evaluation. Any work supporting or facilitating to above work will not be considered.

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