BHARAT HEAVY ELECTRICALS LIMITED RAMACHANDRAPURAM: HYDERABAD – 502032

M&S/10-REPAIR SHOP

Phone No.: 040--23185324 Fax No.: 040-23183285 email: <u>mbchandana@bhel.in</u>

TENDER NOTICE NO.:HY/M&S/10-RS/RC/22-23/MAXIE/2009/1 Date:20.09.2022

Bharat Heavy Electricals Limited, a Government of India Public Sector Undertaking having its registered office at Siri Fort, New Delhi through BHEL-HPEP, Ramachandrapuram, Hyderabad, one of its manufacturing units, invites sealed tenders in two-part bid (Part-A: Techno-commercial Bid & Part-B: Price Bid) from eligible contractors, who fulfill qualifying criteria as stipulated in the NIT for the work of "Reconditioning of Maxie Armature Bandaging Lathe (Asset No: 02-1345)" as per scope of work, terms & conditions enclosed."

Sealed quotations in a single cover consisting of two inner sealed covers (containing Part-A: Techno-commercial Bid and Part-B: Price Bid superscribing the Tender Notice Number, Tender Date, Name of Work, Due Date of Opening, Techno-commercial Bid or Price Bid on top of cover) will be received upto 10.00 AM on or before 11.10.2022 at Vendor Complex, besides Administrative Building, BHEL-HPEP, Ramachandrapuram, Hyderabad-502032. Part A: Techno-commercial Bid will be opened at 13.30 PM on the due date in the presence of bidders or their authorized representatives. Further information if any, may be obtained from the office of. Reverse auction will be conducted online among techno-commercially qualified bidders through our service provider to arrive at optimum cost.

Name of work : "Reconditioning of Maxie Armature Bandaging Lathe

(Asset No. 02-1345)"as per scope of work, terms &

conditions enclosed

1. Earnest Money Deposit : Rs. 36,500/-

2. Estimated Cost to BHEL : **Rs. 18,13,200/- +** GST as applicable.

3. Cost of Tender documents : NIL

4. Tender sale starts from : Not applicable

5. Tender sale closes on : Not applicable

6. Last date of receipt of tenders : 11.10.2022 up to 10.00 AM

7. Date and time of opening of tenders : 11.10.2022 at 13.30 PM

(Part-A: Techno-commercial bid only)

Name & Address of the firm:

for BHARAT HEAVY ELECTRICAS LIMITED

-/
(CH MALLI BABU)
Sr.DGM/ 10-RS,AC,Electronics (M&S)

M&S-RECONDITIONING SECTION

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INSTRUCTIONS TO TENDERER

- 1. The bids shall be submitted in two parts.
 - a) Part-A: Techno-commercial Bid (to be submitted in sealed cover)
 - b) Part-B: Price Bid (to be submitted sealed in cover)
- 2. Part-A must be duly completed and super-scribed "Tender Notice Number, Tender Date, and Part-A: Techno-commercial Bid". The tenderer shall not indicate the price or rate in the Part-A: Techno-commercial Bid. The tenderer shall expressly accept all the terms and conditions of the tender. The tender which does not comply with the BHEL terms & conditions may be rejected as non-responsive/non-conforming/ and non-acceptable.
- 3. Part-B must be duly completed with reference to the tender conditions and put in a separate sealed envelope and super-scribed "Tender Notice Number, Tender Date, and Part-B: Price Bid".
- 4. The Techno-commercial Bid (Part-A) and general terms and conditions shall be attached to Techno-commercial offer with each and every page duly signed and stamped by the tenderer (at the bottom of each page) as a token of acceptance.
- 5. The Price Bid (Part-B) shall not carry any conditions. Price/rate should be quoted in clear terms in the format given by BHEL. The price/rate should be quoted in figures as well as in words. If there is a discrepancy between figures and words, the amount in words shall prevail.
- 6. The Price Bid (Part-B) will be opened in respect of those tenderers, who are qualified Techno-commercially.
- 7. The tender forms of both Part-A & Part-B duly filled in all aspects and shall be signed and stamped on each page of the tender document by the tenderer. The tenderer should submit the tender documents intact without detaching any page or pages. All entries in the tender document should be in one ink. Corrections, over-writings, cuttings etc. are not permitted.
- 8. All the columns in the tender form shall be filled without leaving any column blank in any page of the tender document. In case any of the columns left blank, the tender is liable to be rejected.
- 9. Before making of the offer, the tenderers are advised to carefully go through the terms and conditions, which form part of the Agreement.
- 10. Tender documents consisting of Part-A and Part-B duly sealed in separate envelopes should be sealed in another envelope and should be deposited in Vendor Complex, besides Administrative Building, BHEL-HPEP, Ramachandrapuram, Hyderabad-502032 addressed to CH MALLI BABU, Sr.DGM/10-RS, AC (M&S), BHEL, Ramachandrapuram, Hyderabad-502032 so as to reach on or before 10.00 AM on 11.10.2022. The tender documents may also be sent by registered post/speed post/courier so as to reach on or before the said date and time. BHEL is not responsible for any postal delay or other delays. Part-A of tender form i.e. Techno-commercial Bid will be opened at 13.30 PM on the due date in the presence of tenderers or their authorized representatives who are present for the

tender opening. Tenderers who qualify in Techno-commercial Bid will be intimated to attend the tender opening of Part-B: Price Bid, at a date to be notified separately. Part-B: Price Bid will be opened at the specified date in the presence of tenderers or their authorized representatives who are notified to attend the tender opening,

- 11. BHEL reserves the right to assess the capacity and capabilities of the parties for prequalification. The company also reserves the right to accept or reject any or all the tenders or any part thereof at any stage of process without assigning any reason whatsoever. The company has no obligation to accept the lowest tender.
- 12. BHEL shall be resorting to Reverse Auction (RA) (Guidelines as available on www.bhel.com) for this tender. RA shall be conducted among the techno-commercially qualified bidders. Price bids of all techno-commercially qualified bidders shall be opened and same shall be considered for RA. In case any bidder(s) do(es) not participate in online Reverse Auction, their sealed envelope price bid along with applicable loading, if any, shall be considered for ranking
- 13. For any further clarifications, SRI A KUMARA AYYAPPA, Dy. Manager/10-RS, AC (M&S), BHEL, Ramachandrapuram, Hyderabad-502032 may be contacted in person or through phone numbers: 040-23182551, 9848998735.

EMD Payment

EMD of 2% of the Estimated Cost (i.e. Rs. 36,500/-) shall be paid in as cash deposit in BHEL cash office or by Electronic Fund Transfer (EFT) to BHEL Account Number: 62048154115 (IFS Code: SBIN0020075) or by Demand Draft/Banker's Cheque/Pay Order drawn on any nationalised bank/scheduled bank in favour of "Bharat Heavy Electricals Limited" payable at Hyderabad shall be enclosed to the tender bid. Tender bids received without EMD will be rejected and will not be considered for evaluation. In the event of acceptance of tender, and if the contractor/bidder fails to commence the work within the promised period, BHEL shall without prejudice to any other right or remedy be at liberty to forfeit the said earnest money absolutely. EMD does not carry any interest.

Note: MSME registered contractors may be waived from EMD based on MSME certificate with latest Certification from Chartered Accountant about continuing MSME status.

BHARAT HEAVY ELECTRICAS LIMITED RAMACHANDRAPURAM: HYDERABAD-502 032

M&S/10-REPAIR SHOP

PART-A: TECHNO-COMMERCIAL BID

TENDER NOTICE NO.:HY/M&S/10-RS/RC/22-23/MAXIE/2009/1 Date: 20.09.2022

NAME OF WORK: "Reconditioning of Maxie Armature Bandaging Lathe (Asset No. 02-1345)" as per scope of work, terms & conditions enclosed.

THIS IS AN INDIVISIBLE WORKS CONTRACT AND THE CONTRACTOR SHALL FILL REMARKS COLUMN AGAINST ALL ITEMS.

This tender schedule must be submitted along with the General Conditions, Special Conditions etc. enclosed herewith duly signed and stamped on each and every page with tenderer's covering letter. Quotations should be TYPED on tender schedules only. Any deviations/deletions should be brought out separately on tenderer's letter pad and enclosed to the tender documents.

The following are to be filled up by the tenderer

Name of the Contractor
Full Address
:
Name of Contact Person
Phone Number
:
Fax Number.
E-mail Address
:
Mobile Number

S No.	Description	Contractor's Remarks
1	PF CODE	
2	ESI CODE	
3	PAN	
4	GST Registration. Number	
5	Price Validity: 90 Days from Techno-commercial bid opening	
	date	
6	EMD: Rs.36,500/- Cash receipt/Banker's Cheque details	
7	Security Deposit Clause: Acceptance (See terms and conditions for details)	
8	Taxes and Duties: mention whether included and firm during contract period OR extra as applicable	
9	Payment Terms: Progressive payments as mentioned in the scope of work enclosed for the work completed successfully in all respects	

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M&S-RECONDITIONING SECTION	Page 4 of 31

S No.	Pre-Qualification	Contractor's Remarks
A	PRE-QUALIFICATION REQUIREMENTS (documentary proofs should be enclosed) All the following conditions are to be satisfied by the bidder. Documentary proof is to be enclosed with technocommercial bid satisfying all these conditions. In case the bidder fails to enclose the same, the offer is liable to be rejected.	
1	The average financial annual turnover during the last three years, ending 31st March 2022 should be at least 30% of the estimated cost. (vendor should submit balance sheet and P&L account for last 3 years duly certified by Charted Accountant)	
2	The party must be a reputed machine tool manufacturer/ reconditioner of heavy/medium machine tools. Copy of purchase orders/work orders and corresponding successful completion certificates should be submitted as a proof for verification. Offers without these documents will be rejected. List of the customers along with respective contacting officer's address (including phone number/e-mail address) for whom machines were reconditioned/manufactured/rebuilt should be enclosed to the offer.	
3	Experience of having successfully completed similar works during the last 7 years ending 30 th August-2022 should be either of the following: a) Three similar completed works each costing not less than the amount equal to 40% of the estimated cost (i.e. Rs.7.25 Lakhs). OR a) Two similar completed works each costing not less than the amount equal to 50% of the estimated cost (i.e. Rs.9.06 Lakhs). OR b) One similar completed work costing not less than the amount equal to 80% of the estimated cost (i.e. Rs.14.50 Lakhs).	

Similar Machines definition Manufacture/reconditioning of medium size machine tools like 1. Vertical/Horizontal Milling Machines 2. Centre lathes equivalent to SU 63 of TOS make, bed length 4.9 m or more 3. Horizontal boring machines of spindle diameter of 63 mm or more 4. Vertical boring machines equivalent to SK 12 of TOS make (table diameter 1200 mm or more) 5. Drilling machines of spindle diameter of 60 mm to 100 mm 6. Grinding Machines equivalent to G-22/G-13 or Equivalent 7. Manufacturing of light or medium machines equivalent to HMT make radial drilling machines or lathes

	Borer/Lathes	
В.	SPECIAL CONDITIONS	

HMC/VMC/Horizontal Borer/Vertical

8. General purpose CNC machines like

For safe custody of the machine and material being stationed at contractor's works) The contractor has to submit the bank guarantee/all risk insurance coverage for Rs.20 lakhs for safe custody and as a security deposit for the period of machine and material being stationed at contractor's works. This bank guarantee will be released after receipt of the reconditioned and tested machine at BHEL works. Any damage/loss shall be rectified by the contractor at their cost. II EMD of 2% of the Estimated Cost (i.e. Rs.36,500/-) shall be paid in as cash deposit at BHEL cash office or by Electronic Fund Transfer (EFT) to BHEL Account Number: 62048154115 (IFS Code: SBIN0020075) or by Demand Draft/Banker's Cheque/Pay

(BANK GUARANTEE/ALL RISK INSURANCE COVERAGE AS SECURITY

BHEL cash office or by Electronic Fund Transfer (EFT) to BHEL Account Number: 62048154115 (IFS Code: SBIN0020075) or by Demand Draft/Banker's Cheque/Pay Order drawn on any nationalised bank/scheduled bank in favour of "Bharat Heavy Electricals Limited" payable at Hyderabad shall be enclosed to the tender bid. Tender bids received without EMD will be rejected and will not be considered for evaluation. In the event of acceptance of tender, and if the contractor/bidder fails to commence the work within the promised period, BHEL shall without prejudice to any other right or remedy be at liberty to forfeit the said earnest money absolutely. EMD does not carry any interest.

Ι

DEPOSIT

III SECURITY DEPOSIT

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. Security Deposit amount shall be returned to the contractor after successful completion of the contract work, i.e. handing over of the proved-out machine to regular production at BHEL works. The security deposit shall not carry any interest.

Bidder agrees to submit performance security required for execution of the contract within the time period mentioned. In case of delay in submission of performance security, enhanced performance security which would include interest (SBI rate + 6%) for the delayed period, shall be submitted by the bidder. Further, if performance security is not submitted till such time the first bill becomes due, the amount of performance security due shall be recovered as per terms defined in NIT/contract, from the bills along with due interest.

IV TIME SCHEDULE

Machine turn-around time (time period, during which the machine is not available for production) shall be limited to 10 WEEKS, within which the supplier shall complete installation, commissioning, testing and job prove-out of the machine.

V PAYMENT TERMS

- 1) 30% of Part-I order (i.e. 30% of labour cost and 30% of initial spares cost) shall be paid after joint inspection of the completely dismantled machine for 1) identification of spares and 2) deciding detailed scope of repair/rework on various components/parts and submission of quotation for joint inspection spares along with manufacturing drawings. This is subject to submission of bank guarantee for like amount valid for the period till the reconditioned machine is reached to BHEL works.
- 2) 60% of Part-I order (i.e. 60% of labour cost and 60% of initial spares cost) along with 100% taxes and duties at actuals (against submission of documents to BHEL for reimbursement of the same from authorities concerned) shall be paid after reerection, re-commissioning, job prove-out and handing over of the reconditioned machine for regular production at BHEL works.
- 3) Joint inspection spares shall be ordered separately (Part-II order). However, 90% of Part-II order shall be paid after re-erection, re-commissioning, job prove-out and handing over of the reconditioned machine for regular production at BHEL works.
- 4) Balance 10% of Part-I & Part-II orders shall be paid after submission of performance bank guarantee for like amount valid for the guarantee period of 12 months (on two-shift basis) from the date of handing over of the proved-out machine for regular production at BHEL works.
- 5) GST as applicable

VI **PENALTY**

0.5% of the total contract value (including labor cost, cost of initial spares & joint inspection spares) per week or part thereof up to a maximum of 10% of the total contract value shall be levied beyond the time specified in clause-IV.

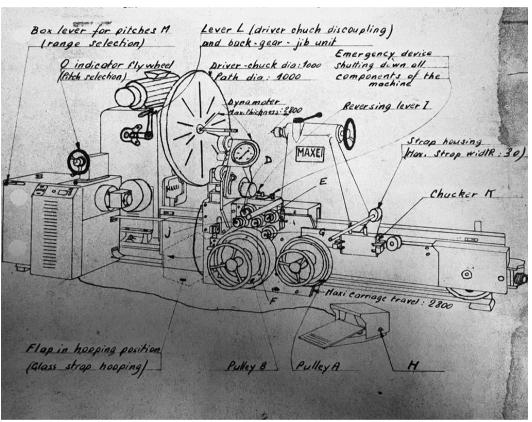
VII PERFORMANCE BANK GUARANTEE

Satisfactory performance of the reconditioned machine shall be guaranteed for a period of 12 months (on two-shift basis) from the date of handing over of the proved-out machine for regular production at BHEL works.

- a) During the guarantee period contractor shall attend to the machine/replace failed parts free of cost as and when called upon to do so for defects/failures noticed and attributable to contractor's work & supplies (both manufactured and bought-out by them).
- b) The discarded parts (old) during the guarantee period shall be taken back by the contractor at their own expenses. Repairs, if any, shall be carried out either at BHEL/contractor works as agreed mutually. But cost of transportation both ways shall be on contractor's account. BHEL will not pay for this.

A. BRIEF DESCRIPTION OF THE MACHINE

- 1. The machine is in working condition.
- 2. The machine is used for taping insulation glass bandage under tension on the armatures.
- 3. The machine has
 - a. Headstock with DC motor and job loading chuck
 - b. Machine feed gearbox
 - c. Machine carriage with tape tensioning rollers and tape tension measurement meter
 - d. Tail stock
 - e. Steady rests -2 Nos



Armature Bandaging Lathe Descriptive layout

4. Currently, Chuck is operated by a DC motor, Feed is transferred to the feed gearbox from headstock through an electromagnetic clutch, carriage is mounted on rollers and is pulled by a metal belt. Chuck is operated by a foot switch; feed is selected by an electrical 3 position direction control switch on carriage. Tape is routed through multiple rollers on the carriage. Tape tension is measured by a hydraulic load cell on the carriage. Machine also has a manual tail stock and two manual steady rests.

B. SPECIFICATIONS OF MAXEI MAKE BANDAGING LATHE, MODEL: 4 CPF (ASSET NO. 02-1345)

Type of Machine : **Tape Bandaging Lathe**

Model : 4 CPF

Manufactured by : MAXEI, FRANCE

Year of Commissioning 1965 Maximum Length/distance between centers mm 2800 Maximum carriage travel 2800 Height of Chuck center above bed 750 mm Maximum Strap/glass tape width 30 mm **Chuck Diameter** 1000 mm Maximum armature diameter 1000 mm Maximum Tension 5000 Nm Chuck Motor Power HP 10

Speed Range

Two operation speed ranges are possible (Change of belts on pulleys).

0-5, 0-18 – Back Gear

0-18, 0-65 - Jib

C. SCOPE OF SUPPLY & WORK IN BRIEF

Complete reconditioning of the Armature bandaging lathe (Asset No. 02-1731) of 02 Block consisting of labor (Mechanical, and Electrical & Electronics) and Parts.

Tail stock and two manual steady rests shall be reconditioned.

Replacement of all bearings, damaged gears, electromagnetic clutch, accessories on the machine and providing centralized lubrication system with accessories.

Tape tension indication gauge and load cell shall be replaced with new ones.

Carriage drive steel belt shall be replaced with new ones.

Old main chuck drive DC motor shall be replaced with AC induction motor & V/F drive system. Electromagnets of the Feed system on carriage shall be replaced by new ones.

Replacement of existing electrics, electrical control panel, auxiliary pushbutton station, switchgear, cables and accessories, supply, installation & commissioning of fully wired new control panel, new switchgear, cables and accessories, complete machine rewiring, job prove-out and handing over of the machine to production as per the detailed scope of supply & work as given

Transportation and transit insurance for both ways shall be arranged by BHEL. Packing & forwarding is by BHEL approved transporter.

S No.	DETAILED SCOPE OF SUPPLY & WORK	VENDOR REMARKS
A	MECHANICAL	
1	Measurement of machine accuracies and sound	
	levels as per manufacturer's test charts before	
	dismantling of the machine at BHEL works by	
	the contractor with his personnel and	
	measuring instruments.	
2	Removing the machine from the foundation,	
	dismantling it into transportable lots and	
	minimum packing required for further	
	transportation to the contractor's works. The	
	necessary personnel and tools are in the	
	contractor's scope.	
3	Unpacking the transported machine assemblies	
	at contractor's works, complete dismantling of	
	the machine assemblies into individual parts,	
	de-greasing, chemically cleaning, pre-painting	
	of structural parts, joint inspection of the	
	dismantled machine parts along with BHEL	
	personnel to finalize the detailed list of 1)	
	spares to be bought-out and 2) spares to be	
	manufactured. The above spares list has got to	
	be approved by BHEL. Drawings of	
	manufacturing spares and specifications of	
	bought-out spares shall be prepared and	
	submitted to BHEL for approval. BHEL may	
	procure and supply these items to the	
	contractor from any other source as well	
4	Replacement of all bearings (with	
	SKF/FAG/NTN make only) irrespective of	
	their size and present condition.	
5	Replacement of all worn out gears (Spur,	
	Helical, Spiral, Bevel, Worm and Worm	
	Wheels), shifters, shafts and other parts in the	
	machine headstock, couplings, other	
	accessories in the machine with new ones	
	complying to IS standards and specified	
	quality materials complying with the original	
	manufacturer's specified tolerances.	
6	Reconditioning of all rollers in the machine.	
7	Tape tension indication gauge and load cell	
	shall be replaced with new ones.	
8	Oil leakage from gear boxes is to be arrested.	
9	New "CENLUB" make centralized lubrication	
	system along with required accessories shall be	
	provided for axes guide-ways & spindle.	

S No.	DETAILED SCOPE OF SUPPLY & WORK	VENDOR REMARKS
10	All the missing handles and levers are to be	
	replaced. All these levers and the handles shall	
	be Nickel-plated.	
11	Replacement of all seals, O-rings, wipers,	
	rubber packing's etc.	
12	Complete assembly of the machine	
В	PAINTING	
1	Machine outside body shall be painted with	
-	two coats of Apcolite (Asian paints) premium	
	enamel opaline green color paint. Interior of	
	the machine has to be painted with two coats	
	of red enamel paint. Wherever oil comes in	
	contact with the interior of the machine body,	
	oil resistant paint to be used. Letters, numerals	
	etc. will have to be painted with a different	
	color as required/indicated by BHEL at the	
	time of final painting. For electrical control	
	panel, the interior of the panel is to be painted	
	with two coats of white enamel paint. Painting	
	should be carried out according to the standard	
	procedure for painting including cleaning and	
	removing of the old paint, applying metal	
	primer putty etc. Good finish should be	
	ensured. Overall machine aesthetic view	
	should be taken care of.	
C	ELECTRICAL & ELECTRONICS	
1	Old main chuck drive DC motor shall be	Make
	replaced with AC induction motor & V/F drive	Motor: Siemens/ABB
	system. The speed of chuck shall be controlled	V/F Drive: Siemens/ABB
	by Potentiometer placed on the carriage. Start	
	/Stop of the chuck shall be by a foot switch.	
	Direction selection of chuck shall be by a	
	selection switch mounted on machine control	
	panel.	
2	Electromagnets on the carriage for movement	
	shall be replaced with new ones. Direction	
	selection of carriage shall by a selector switch	
	mounted on carriage.	
3	CONTROL PANEL	
	Fully wired, stand-alone, floor mounting type	
	new electrical control panel of RITTAL or	
	reputed make, with minimum IP54 degree of	
	protection. Necessary cooling is to be	
	provided, if required. The panel shall have	
	adequate door locks. All the separate junction	
	boxes in the machine are to be replaced with	
	new ones and with complete rewiring of the	

S No.	DETAILED SCOPE OF SUPPLY & WORK	VENDOR REMARKS
110.	JBs.	
4	Dimensions of the existing desk type main	
	control/operator panel are 1200 mm (W) x	
	1000 mm (H) x 600 mm (D).	
	The new control panel should be desk-type of	
	about same dimensions for easy and	
	comfortable operation by the operator.	
5	One side of the control panel shall be slant-	
	type on which operator panel/ operator	
	controls should be mounted.	
6	Complete new wiring of the machine shall be	
	done as per existing electrical scheme on the	
	machine.	
7	All cables other than in-coming supply cable	
'	are in the scope of the contractor.	
	Make: LAPP KABEL	
	Planning and lying of all necessary cables are	
	also in the contractor's scope.	
8	All switchgear items like MCBs, MPCBs,	
	fuses, OLRs, contactors, control relays etc.	
	shall be of SIEMENS/any other reputed	
	make. Terminal blocks shall be of WAGO	
	make	
9	All the limit switches and other sensors (if	
	any) along with brackets are to be replaced	
	with BALLUF/ TEKNIC EUCHNER make	
10	LED machine lamp with sufficient	
	illumination shall be mounted at appropriate	
	position on the machine.	
11	All equipment must be suitable to run with	
	input voltage of 3 wire, 3 phase, 415 V AC ±	
	10% , 50 Hz \pm 2Hz.	
12	All equipment shall be tropicalized and	
	suitable for operation in shop floor conditions,	
	where temperature variation is between 10° C	
	to 45° C.	
13	Before commencement of electrical wiring,	
	general arrangement drawings should be	
	submitted to BHEL for approval.	
14	All non-current carrying metallic parts shall be	Make: Siemens/Telemecanique/Fuji/
	earthed.	Merlin-Gerin/Mitsubishi/ABB/GE
15	Any other work (mechanical, electrical) not	Omron / OEN
	mentioned in this scope of work, but required	
	to keep the machine in working condition with	
	all features and functions are in the scope of	
	the contractor.	

No. WORK	
18 Main switch Siemens/L&T/Mitsubishi/Fuji 19 REGULATED DC POWER SUPPLY UNITS: (Otv. 1) 1 Nos. of Siemens or reputed make 24 V regulated DC power supply units of suitable capacity: One for PLC system and another for field devices like solenoid valves and actuators etc. 20 Control transformer (wherever required) of suitable capacities for 220 VAC and for other AC control voltages required for operation of the auxiliaries in the machine. 21 Digital Energy meter of reputed make is to be provided on main electrical control panel door to indicate and record total consumption of electric power for the total machine including auxiliary systems. The scope shall also include necessary current transformers & accessories. 22 Indication lamps wherever required are to be provided with new ones. 23 Indicating instruments shall be replaced with new ones of reputed make. 24 Any other material, not mentioned above, but required to keep the machine in working condition with all original features and functions are in the vendor's scope. C COMMISSIONING AT CONTRACTOR	Salzer/
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(PDI) to BHEL at contractor's works. BHEL	
shall be intimated in advance for deputing the	
team for PDI. The PDI scope shall include the	
following activities	
Checking of geometric accuracies as per	
original test chart supplied by BHEL. The	
machine should be brought back to 100% of	
the original accuracies as specified by the	
manufacturer and same are to be recorded.	

S No.	DETAILED SCOPE OF SUPPLY & WORK	VENDOR REMARKS
1100	Testing of the machine for complete	
	functioning and total features of the machine.	
	Contractor has to prove out all the functions of	
	the machine and demonstrate working of the	
	machine to the satisfaction of BHEL.	
	Dismantling of the machine after satisfactory	
	final pre-dispatch inspection (PDI) at	
	contractor works; minimum packing required	
	for further transportation to BHEL	
	Contractor has to dispatch the reconditioned	
	and tested machines by BHEL approved	
	transporter with proper care. Transportation	
	cost is to BHEL account.	
5	Job prove-out and handing over the proved-out	
	machine to production.	
E	DOCUMENTATION	
1	Three sets of hard copies of each of the	
1	following documents in English language	
	should be supplied.	
	One set (Soft-copy) of the entire	
	documentation shall be furnished on CD/DVD	
	or any other storage media.	
2	Detailed component assembly, mechanical and	
	electrical drawings for modified portions.	
3	Maintenance, complete electrical, interface &	
	commissioning manuals, operating manuals.	
4	Complete as-built electrical drawings	
	including entire layouts and interfacing details	
	& OGA/GA drawings	
5	Catalogues of bought-out items	
F	GENERAL POINTS TO BE NOTED BY	
	THE VENDOR	
1	All the equipment must be suitable to run with	
	input voltage of 3 wire, 3- ϕ , 415 \pm 10% VAC,	
	50 ± 2 Hz.	
2	All the equipment shall be tropicalized and	
	suitable for operation in shop floor conditions,	
	where the temperature variation is between 10°	
	C to 45° C.	
3	The control panels shall be dust & vermin	
	proof.	
4	DIN rail mounting shall be followed in control	
	panels.	
5	All wiring should be neatly bunched together	
	and shall be routed through hose pipes &	
	conduits wherever required.	
	1	
1	1	

S No.	DETAILED SCOPE OF SUPPLY & WORK	VENDOR REMARKS
6	SAFETY FEATURES TO BE FOLLOWED	
	BY THE VENDOR:	
	(a) The supplied system should have adequate	
	& reliable safety interlocks/devices to avoid	
	damage to the machine, the work- piece and	
	the operator.	
	(b) All the cables used on the machine should	
	be well supported and protected. These should	
	not create any hindrance to the machine	
	operator's movement for effective use of the	
	machine	
	(c) Electrical cables should not run along with	
7	oil pipelines in the same tray/trench	
/	EARTHING: All non-current carrying	
	metallic parts shall be properly earthed. All doors and movable parts shall be connected to	
	the earth bus with flexible copper connections	
8	The vendor shall visit BHEL works to	
0	see/study the machine, which is presently in	
	working condition. The vendor is required to	
	study the scope of supply & work and certify	
	the completeness of the scope to execute the	
	work. In case of any discrepancies in the	
	scope, the vendor is required to highlight the	
	same to BHEL.	
9	It is the responsibility of the vendor to ensure	
	completeness of material required for	
	successful execution of the entire project and	
	complete & trouble-free functioning of the	
	machine	
10	TIME SCHEDULE:	
	Machine turn-around time (time period, during	
	which the machine is not available for	
	production) shall be limited to 10 WEEKS,	
	within which the supplier shall complete	
	installation, commissioning, testing and job prove-out of the machine.	
11	ELECTRICAL DRAWINGS FOR	
11	APPROVAL BY BHEL:	
	Before commencing manufacture/fabrication	
	of panels, complete electrical drawings and	
	layout details of the entire project should be	
	submitted to BHEL for approval.	
12	GUARANTEE: As per BHEL terms &	
	conditions.	
	1	<u> </u>

S No.	DETAILED SCOPE OF SUPPLY & WORK	VENDOR REMARKS
13	TRAINING: Training of BHEL machine	
	operators in the areas of operation of the	
	machine & accessories by the supplier's	
	experts/ engineers during their stay at BHEL	
	works.	
14	All the material/equipment dismantled and	
	removed from the machine shall be handed	
	over to BHEL. These are BHEL's property.	
15	Tools & instruments required for dismounting	
	of the panels, wiring works, installation &	
	commissioning activities at BHEL works	
	should be brought by the vendor.	
	5 ,	
F	GENERAL CONDITIONS	
1	The machine shall be reconditioned at	
	contractor works. Contractor's personnel will	
	be allowed to work inside BHEL works only	
	during checking of the machine, before	
	dismantling and taking out for reconditioning,	
	during re-assembly, re-erection, re-	
	commissioning and any maintenance work	
	during the guarantee period	
2	Before submitting the offer, the contractor may	
	visit BHEL works to see/study the machine,	
	which is presently in working condition. The	
	contractor is required to study the scope of	
	supply & work and certify the completeness of	
	the scope to execute the work. In case of any	
	discrepancies in the scope, the contractor is	
	required to highlight the same to BHEL.	
3	Transport & transit insurance for both	
	ways are in BHEL scope and cost.	
4	All works connected to guide-ways of all axes	
	(e.g. slide-ways, gibs), repair by machining	
	(grinding, milling, hand scraping), suiting with	
	Turcite® B low friction bearing material and	
	matching are also covered under labour	
	charges.	
5	SPARES: The spare parts	
	(mechanical/electrical) required to be replaced	
	(manufacturing spares and bought-out spares)	
	will be to BHEL account. Contractor has to	
	quote for these spares along with	
	manufacturing drawings for manufacturing	
	items and specifications for bought-out	
	items for approval. BHEL may supply	

S No.	DETAILED SCOPE OF SUPPLY & WORK	VENDOR REMARKS
110.	available spares with them or may procure and supply these items to the contractor from any other sources as well. Spares, that are not supplied by BHEL shall be purchased or manufactured by the contractor.	
	a) Spares required to be replaced other than those agreed to during joint inspection will have to be approved by BHEL before such replacement. Cost of such spares shall be borne by the contractor. BHEL will not pay for these items	
	b) For joint inspection of the dismantled machine at contractor's works, prior intimation shall be given to BHEL by the contractor for deputing the team.	
	c) Contractor shall submit the quotation for joint inspection spares within a week from the date of joint inspection.	
6	REWORK IN LIEU OF REPLACEMENT Reworks in lieu of replacement of all parts (guide-ways/sliding surfaces, spindle, bushes, box-nuts, screw rods etc.) by machining, scrapping, grinding/chrome plating/welding etc. identified initially and also during joint inspection are covered under labour charges only. For such works BHEL will not pay.	

D. PARTS LIST OF THE MACHINE FOR INFORMATION OF VENDOR

A) Head Stock:

S. No	Item	Description	Quantity	Make
1	Motor	Make: SNACEL DC Motor	1	
		HP: 10, Voltage: 180-200		
		Current: 45A-1, RPM: 1900		
2	V-Belts – B104	Fenner make	3	
3	Electromagnetic		1	
	Clutch			
4	Motor Pulley			

B) Carriage

S. No	Item	Description	Quantity	Make
1	Load cell with gauge	Up to 5000Nm	2	
2	Carriage Steel drive belt		1	
3	Electro magnets		2	

C) Feed Unit

S. No	Item	Description	Quantity	Make
1	Coupling from clutch to		2	
	feed gearbox			
2	Clutch plates		1	
3			1	

D) Spares

S. No	Item	Description	Quantity	Make
1	Headstock Drive belt	B-104, V-Belt, Fenner	3	Fenner
		Make		
2	Carriage drive belt	Steel belt	1	
3	Clutch plates set		2	

NATIONAL ELECTRONIC FUND TRANSFER FORMAT

(To be furnished on Contractor's Letter head)

Ref No.:			Date:
Dy. Manager/Finance-CM Bharat Heavy Electricals Limited Ramachandrapuram Hyderabad 502 032			
Dear Sir,			
Sub: Details for National El	ectronic Fund Tra	ansfer	
We request and authorize you to eff to RBI Guidelines, as per the details given	- •	ugh NEFT to	our Bank account, subject
A. Supplier code (As per PO/SCO)	:		
B. Beneficiary (Name as per PO/SCO)	:		
C. PAN of Beneficiary	:		
D. TIN of Beneficiary	:		
E. e-mail address of Beneficiary	:		
F. City (of Beneficiary)	:		
G. Bank Name	:		
H. Branch Name (of Bank)	:		
I. Account Number	:		
J. Account Type (Savings or Current)	:		
K. MICR Code of the branch (9 digit)	:		
L. IFSC for EFT (11 char)	:		
M. IFSC for RTGS (if different from L)	:		
Thanking you,			
Certified that the particulars furnished above		Name Designation per our records	(Signature with Seal) Authorized Signatory :
-	•		
Date:	(Signato	ure of authoriz Bank S	ed official of bank) Stamp

BHEL TERMS AND CONDITIONS

A. CONTRACTUAL

- 1) The Contractor will ensure that the employees deployed by him in the premises of BHEL are physically and mentally fit and do not have any criminal record.
- 2) The Contractor will maintain records of his employees deployed to carry out the job. The Contractor will provide Employment card/Identity card with photograph duly attested by him to his employees.
- 3) In the event of termination of contract for any reason whatsoever, the contractor shall withdraw all his employees from the establishment of BHEL.
- 4) The Contractor will obtain insurance cover for his employees and take third party risk insurance coverage at his own cost.
- 5) The Contractor will be solely entitled to dictate such workers about the manner of carrying out the work.
- 6) The Contractor or his authorized representative will supervise the work allotted to him and being carried out by his employees or will post a Supervisor for this purpose.
- 7) The Contractor will be responsible for the good conduct of his employees. In case of any misconduct/misbehavior by any employee, contractor will replace such employee immediately.
- 8) The Contractor will keep watch on his employees and he will be liable for any pilferage / loss to BHEL due to acts of omission and commission by his employees. Similarly, liability for any compensation to outsiders on account of any act of omission and commission by the employees deployed by the contractor shall lie exclusively with him.
- 9) The Contractor will ensure that all precautions are taken for the safety of his employees.
- 10) The Contractor will provide to his employees all tools, tackles and equipment required to carry out the job under the contract at his own cost.
- 11) The Contractor will provide safety appliances at his own cost which may be required under the statute or otherwise.
- 12) The Contractor will provide all material at his own cost as mentioned in the contract to his employees for carrying out the job.
- 13) Transportation facility for the employees to come to BHEL works is in the scope of the contractor.
- 14) Consumables like air, water, power supply will be supplied by BHEL free of cost.
- 15) No accommodation will be provided by BHEL to the contractor personnel deputed for performing the contract work.

16) Shift timings: 1^{st} shift -06:30 to 14:45 Hrs with Lunch break from 11:00 to 11:30 Hrs 2^{nd} shift -14:45 to 22:45 Hrs with Dinner break from 19:00 to 19:30 Hrs

B. STATUTORY

- 1) The Contractor shall comply with all statutory requirements, rules, regulations, and notifications in relation to employment of his employees issued from time to time by the concerned authorities.
- 2) The Contractor shall provide PF passbook to his employees and ensure payment of PF, EDLI, and pension dues under EPF & MP Act, 1952 to the RPFC.
- The Contractor shall produce proof of deductions as well as remittances of PF, EDLI, Pension, ESI contribution, administrative charges etc. wherever applicable and shall maintain proper records.
- 4) The Contractor shall furnish proper returns to the concerned statutory authorities.
- 5) The Contractor shall be solely responsible for nonpayment/delayed payment of wages, contributions under EPF & MP Act, ESI Act etc.
- 6) In case the contractor fails to make payment of wages to his employees or remittance of contribution to the concerned authorities, the security deposit/other dues under the contract can be utilized by BHEL to discharge the liability of the contractor.
- 7) The Contractor shall indemnify BHEL against all claims and losses under various statutes or any civil or criminal law in connection with employees deployed by him.
- 8) The liability for any compensation on account of injury sustained by an employee of the contractor will be exclusively that of the contractor.
- 9) The Contractor shall obtain license under CL(R&A) Act, 1970.

C. GENERAL

- 1) The contractor shall pay minimum wages to workers as per minimum wages act. Contractor shall make PF, ESI contributions as per applicable rules. ESI Cards should be arranged to contract labour and their wards by the contractor. These records need to be preserved for a period of at least 3 years and made available even after the contract is over for any verification by the statutory authorities.
- 2) Contractor shall provide personnel protective equipment like safety uniform in blue color, safety shoe in black colour and should ensure that they wear them daily while on work.
- 3) Contract operates on Unit rates, contract labour should get at least Daily Unit rate as per the minimum wages act from the contractor.
- 4) Contractor should pay double amount to the contract labour, if they are engaged more than 8 hours (normal).
- 5) Permissions for labour and materials shall be obtained in the prescribed formats.
- 6) **Break:** contract labour should be given break period for about 15 days once in every 6 months in case of long duration contracts, for one time/ short period contracts this clause will not apply

- 7) The contractor is wholly responsible for any loss of life or partial disability of any of their labour while on duty
- 8) In case of occurrence of any accident/ injury of contractor's staff, BHEL will not pay any compensation while they are on duty and contractor has to take care of health of workers under statutory obligation.
- 9) BHEL reserve the right to cancel the work order in part or in full without assigning any reason
- 10) Upon awardal of the work, the contractor has to execute an agreement with BHEL on a non-judicial stamp paper worth Rs.200/- as per General Agreement Conditions before commencement of work.
- 11) BHEL shall have the privities of the contract with the contractor only and will give instructions to the contractor or his authorized representative. 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.
- 12) The contractor shall maintain regular contact with the designated employee(s) of BHEL and will interact on matters relating to the work awarded under this contract.
- 13) In case the Contractor does not carry out the Contractual/Statutory obligations or the services rendered by him are found to be unsatisfactory, BHEL shall bring the same to his notice and he will be obliged to discharge the obligations and rectify the efficiency/anomaly within three days' time failing which, BHEL reserves the right to terminate the contract without assigning any reason whatsoever. In such an event, no damages will be payable for short closure of the contract.
- 14) Notwithstanding anything contained in the contract Agreement which will be entered after awardal of work, the contract may be terminated by BHEL without assigning any reason thereof by giving a notice of 30 days to the contractor.
- 15) The Entry permits are to be issued to the Contract Labour by Assistant Commandant/CISF (Plant), based on the requisition submitted by Contract Executing Officer and forwarded by DGM/Personnel.
- 16) Every contractor shall submit a notice regarding commencement and completion of work in form VI A&B [Rule 25 (VIII) & 81 (3)] to HR Department, IR section through his contract executing officer, for forwarding the same to State Labour Department.
- 17) Non compliance of any provisions under the act/rule/instructions/guidelines shall make the contractor liable for penal action including termination of contract.
- 18) Contractor shall furnish in a separate letter his place of residence and postal address. The delivery at the above named place or posting in a Post box regularly maintained by the post and telegraph Department or sending letters registered for acknowledgement of any notice, letter or other communication to the contractor. Change in address shall come into force at any time by an instrument executed by the contractor and delivered to the Company official who has signed the contract.
- 19) The contractor must satisfy himself by personal study and examination of the drawings/ specifications furnished and understands thoroughly the scope of proposed work in detail and all conditions affecting the work before entering into the contract. There shall not be at any time dispute/complaint of any misunderstanding with regard to scope of work and interpretation of specifications or any misunderstanding with regard to nature or omission of the work to be done not shall any application for compensation in terms of time and money shall be accepted by company regarding the above.

- 20) Contractor shall in his absence keep competent agent constantly on the works and any directions or explanations given by the "Contract Signing Officer" or his representative to such agent shall be held to have been given to the contractor himself.
- It shall be contractor's sole responsibility to protect the public and his employees against accident from any cause and provide required safety equipment and shall indemnify, the company against any claims for damages for injury to the person or property resulting from any such accidents and shall, where the provisions of the workmen's compensation act apply, take steps to properly insure against any claims there under.
- 22) In the event of any accident in respect of which compensation may become payable under the Employees' Compensation Act VIII of 1923 whether by the contractor or by the company as principle employer, it shall be lawful for the company to retain out of monies due and payable to the contractor such sum or sums of money as may, in the opinion of the company shall be final in regard to all matter arising in this clause.
- 23) No work shall be done on Sundays or on other declared holidays of the company without the written permission of the company officer in-charge of the work. The contractor shall comply with the provisions of the Factories Act Rules framed there under if the same are applicable.
- 24) The contractor shall keep his work place clean and safe to avoid injuries to men and damage to finished products / equipment.
- 25) On the occurrence of an accident, which results in the death of any of the workmen employed by the contractor or which is so serious as to be likely to result in the death of any such workmen, the contractor shall intimate within 24 hours of the happening of such an accident intimate in writing to the company official in-charge of the work.
- 26) The contractor shall indemnify the company against all losses or damages sustained by the company resulting directly or indirectly from his failure to give intimation in the manner aforesaid including the penalties or dues if any and become payable by the company, as a consequence of failure, the company to give notice under the workmen's compensation act or otherwise confirm to the provisions of the said act in regard to such accident.
- 27) The contractor shall ensure adherence to all statuary requirements applicable to BHARAT HEAVY ELECTRICALS LIMITED, RAMACHANDRAPURAM, HYDERABAD-502032.
- 28) Notwithstanding the clause, in case of any financial loss incurred by the company on account of contravention of the Provident Fund regulations or any regulations of rule touching the same by the contractor, the contractor shall submit an undertaking to indemnify the company to the extent of the loss incurred by the company.
- 29) The contractor should engage only those labourers who shall be more than 18 (eighteen) years of age.
- 30) The contractor shall not resort to subcontracting under any circumstances. If found subcontracting at a later date, BHEL reserves the right to take whatever action it deems fit, including cancellation of the contract.
- 31) The contractor shall be responsible to settle any grievances of the labour deployed by him.
- Whenever the term "CONTRACTOR" is used, it shall be understood to refer to the particular person, firm or corporation with whom an agreement has been made by the concerned company official for executing the work defined in the concerned agreement and for the purpose of instructions regarding compliance with contract conditions, it shall include the contractor's authorized agents, who are entrusted with the work by contractor.
- 33) The quantities mentioned in the agreement schedule are worked out from the relevant drawings in the company and may not be the actuals required for execution. The company does not expressly or by implication agree that the actual amount of the work to be done shall correspond therewith, but reserves the right to increase or decrease the quantity of any class or portion of the work as he deems necessary.

- 34) All the works shall be carried out in accordance with the directions and to the satisfaction of the company official in accordance with the drawings, specifications and instructions. Supplementing or explaining the same from time to time shall be done by the company official.
- 35) For all modifications, omissions or additions to the approved drawings and specifications, the company shall issue revised plans or written instructions and no modifications, omission or addition shall be made unless at any time before completion of the work.
- 36) All materials, articles, and workmanship shall be the best of their respective kinds for the class of work described in the contract specifications and schedule and materials to be obtained by the contractor shall be from sources approved by the company.
- 37) Sample of materials shall be furnished by the contractor at his expense to the company when called for before execution of any work.
- The company shall have power to reject at any stage, any work which is considered to be defective in quality of materials of workmanship and shall not be debarred from rejecting wrong material by reasons of having previously passed them in an unworked condition. Any portion of the work or materials rejected or pronounced to be inferior or not in accordance with specifications shall be taken down and removed from the work site at the contractor's expenses.
- 39) The decision of the company shall be final and binding on the contractor on all technical questions which may arise in the contract with respect to material, workmanship, removal; of improper work, interpretation of the working drawings, specifications, notes, procedures etc.
- 40) The decision of the "Contract Signing Officer" or any officer deputed by him duly authorized on his behalf, in respect of the rate of progress and the quality of work or material shall be final.
- 41) Contracts shall be deemed to have included in his tender price of all the plant, machinery and appliances required for the purpose of all operations connected to secure a satisfactory quality of work within the opinion of the company will ensure the completion of the work within the time specified.
- 42) It is open to the company to lend or supply to the contractor any tools, implement, material and machinery that are needed by the contractor, which in the opinion of the company is essential to improve the quality or progress of work. The contractor shall pay such deposit or charges that may be fixed or determined by the company for any such articles or machinery lent or hired to the contractor.
- 43) All rubbish as it accumulates shall be removed from the site to the point of disposal as indicated from time to time by the company. If this is not adhered to, the company shall remove the scrap and recover the cost of these operations from the bills of the contractor.
- 44) Any sum due from the contractor on account of tools and plants, stores, or any other items provided by the company shall be deducted from the respective bill due to him.
- 45) In case the contractor does not execute the work awarded to him as per the terms and conditions of the agreement, the same shall be got executed by some other contractor and the excess cost incurred shall be recovered from the contractor's security deposit/pending bills.
- 46) In case of breach of any of the terms and conditions of the contract, a claim shall be lodged under the bank guarantee with the guarantor at the discretion of the competent authority of the company. On successful completion of the contract to the satisfaction of the company, the bank guarantee shall be released after due claim period.
- 47) In the event of any question or dispute or under this contract, the same shall be referred to a competent Authority in the company for sole arbitration and his decision shall be final and binding on the parties to the contract.
- 48) In case of any suit or other legal proceeding arising under this contract, the courts at Sangareddy (Sangareddy Dist.), Telangana State only shall have the Jurisdiction.

- 49) Disputes, grievances between the contractor and his labour, will have to be settled by the contractor only.
- 50) The labour employed by the contractor, if found in abetting and fellow labour or contractors or any BHEL employee, the same shall be considered as an act of indiscipline. Such labourers shall be removed from the services of the contractor, on the advice of BHEL. Further the contractor shall initiate every necessary action in accordance with the relevant Laws, Rules & Regulations and enactments of State and Central Government.
- 51) Wherever, BHEL/COMPANY standards are mentioned shall be strictly followed.
- 52) Nothing contained in the contract agreement and its conditions shall be deemed to preclude or render inoperative the service of any notice, letter or other communication upon the contractor personally.
- 53) The decision of the "Contracting Signing Officer" shall be final and binding on the contractor on all technical questions which may arise touching the contract with respect to the quality of material, workmanship, removal of improper work, interpretation of the working drawings, specifications, notes, procedures etc.
- All disputes, claims and demands arising in connection with the contract shall be settled by mutual consultation. If no such agreement is reached between the parties each party can appoint one Arbitrator and the Arbitrators so appointed can appoint a Presiding Arbitrator. The proceedings of the tribunal shall be in accordance with the provisions of the Arbitration and Conciliation Act, 1996 and the rules made there under. The venue of the Arbitration shall be at BHEL, Hyderabad or at such place as the Arbitrators may direct. The Award to be given by the Arbitral Tribunal shall be a speaking award. The arbitration costs, fees and expenses shall be borne by both the parties equally. The award of the tribunal shall be final and binding on both the parties. All questions, disputes, differences arising under, out of or in connection with this contract shall be exclusive jurisdiction of the Courts at Sangareddy, Sangareddy District, Telangana State.

D. GENERAL INSTRUCTIONS REGARDING BHEL TENDERING PROCESS

- 1. If the tender is made by an individual, it shall be signed with his full name and his address shall be furnished. If it is made by firm, it shall be signed with the co-partnership name by a member of the firm, who shall also sign his own name, also furnish the name and address of each member of the firm. If the tender is made by a corporation, it shall be signed by a duly authorized officer who shall produce with the tender, satisfactory evidence of his authorization. Such tendering corporation/firm is required to furnish evidence of its existence along with bid.
- 2. The EMD will be refunded to the unsuccessful Tenderers after rejection of the tender is intimated. The earnest money will be retained in the case of the successful tenderers and either of the cases will not carry any interest. It will be dealt with as provided in the conditions attached to the tender.
- 3. Whenever a tender is to be accepted, the tenderer, whose tender is under consideration, shall attend the Office of "Officer Inviting the Tender" on the date fixed by written intimation to him. He shall forthwith, upon intimation being given to him by the "Officer Inviting the Tender" for acceptance of his tender, complete the execution of the agreement by signing all documents connected therewith. Failure to do so and not to commence the work within one month from the date of intimation shall entail forfeiture of the earnest money.

- 4. Tenderers shall pursue carefully the instructions and directions to the parties given in the tender document and the conditions thereof and all other relevant documents before quoting the rates for the work. The approximate quantity of work to be executed under each class is given in the schedule. The quantities are given with a view to enable tenderer to quote his overall rate for each class of work in the tender form and for a uniform comparison of tenders. It shall be definitely understood that the schedule is liable to alterations at the discretion of accepting authority.
- 5. Tenderers shall keep the offer valid for a period of 90 days from the date of opening of tender. After submitting the tender, he will not recall his offer or modify the terms and conditions thereof. Should the tenderer fail to observe or comply with the foregoing stipulations, the EMD shall be forfeited.
- 6. Tenderers have to quote their rates in the tender schedule legibly written in figures and words and those not submitted in proper form are liable for rejection.
- 7. The submission of tender shall be strictly in accordance with the terms and conditions stipulated in this tender notice. No counter conditions will be acceptable or valid.
- 8. Contractor shall be deemed to have included in his tender price of all the plant, machinery and appliances required for the purpose of all operations connected with the work embraced under the contract to secure a satisfactory quality of work and rate of progress which in the opinion of the "Contract Signing Officer" will ensure the completion of the work within the time specified.
- 9. The rates quoted by the contractor should be firm for the contract period. There shall be no revision in contract rates during the period of the contract. Any increase of statutory levies during the period of the contract will be reimbursed on production of relevant proof of incurring expenditure for the same.
- 10. BHEL reserves the right to negotiate for price reduction with lowest quoted (L1) party and negotiated price will be considered as contract amount for all practical purposes.
- 11. The contractor must have phone facility at his office/residence or cellular phone for proper communication.
- 12. Withdrawal from contract during contract period in BHEL will entail forfeiture of security deposit.
- 13. The contractor should abide by the company's **CISF** Security/safety rules and provide such safety requirements as per statutory rules and requirements of the factories act.
- 14. In case of breach of any of the terms and conditions of the contractor, BHEL reserves the right to cancel the contract either in part or full.
- 15. Contractor shall provide uniform, shoes and other Personal Protective Equipment (like safety helmet) wherever applicable to their labour.
- 16. **Earnest Money Deposit**: Earnest Money is to be paid by tenderers to for securing fulfillment of any obligations in terms of NIT. EMD is to be paid by each tenderer to ensure that the

tenderer does not refuse to execute the work, after it is awarded to him. The rate of earnest money deposit shall be as per tender schedule. EMD shall not carry any interest.

EMD by the tenderer will be forfeited as per Tender Documents if:

- i). After opening the tender and within the offer validity period, the tenderer revokes his tender or makes any modifications in his tender, which is not acceptable to BHEL.
- ii). The contractor fails to deposit the required Security Deposit or commence the work within the period as LOI/Contract.
- iii). EMD by the tenderer shall be withheld in case any action on tenderer is envisaged.
- 17. **SECURITY DEPOSIT**: Security Deposit is to be provided by the contractor towards fulfillment of any obligations in terms of the provisions of the contract. SD shall be 5% of the contract value. EMD of the successful tenderer shall be converted and adjusted towards required amount of Security Deposit.
 - > The SD may be accepted only in the following forms
 - o Cash deposit as permissible under the extant Income Tax act
 - Electronic Fund Transfer (EFT) to BHEL Account Number: 62048154115 (IFS Code: SBIN0020075)
 - o Banker's Cheques of Scheduled Banks/Pay Order/Demand Draft, in favour of BHEL
 - o Bank Guarantee from Schedules Banks/Public Financial Institutions as defined in the Companies Act. The Bank Guarantee format should have the approval of BHEL
 - Fixed Deposit Receipt issued by Schedules Banks/Public Financial Institutions as defined in the Companies Act. (FDR should be in the name of Contractor, Account of BHEL)
 - Securities available from Indian Post Office, 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)
 - ➤ At least 50% of required SD, including EMD should be collected before start of the work. Balance can be collected by deducting 10% of gross amount progressively from each of the running bills.
 - ➤ If the value of work done at any time exceeds the contract value, the amount of SD shall be correspondingly enhanced and additional SD shall be collected from the Contractor or recovered from the payments due to the Contractor
 - ➤ In case of (a) small value contracts not exceeding Rs. 20 lakhs or (b) SAS jobs, work can be started before the required SD is collected. However, payments can be released only after collection/recovery of initial 50% SD
 - > SD shall be released to the Contractor upon fulfillment of contractual obligations as per terms of the contract

Signature of the Bidder with seal

PART - I

PRICE BID FOR "Reconditioning of Maxie Armature Bandaging Lathe (Asset No. 02-1345)"

TENDER NOTICE NO.: HY/M&S/10-RS/RC/22-23/MAXIE/2009/1 Date: 20.09.2022

S No.	Description	BHEL Estimate in INR Rs.
A	<u>LABOUR</u> :-Activities A to E of the detailed scope of work including engineering & design charges	552000
B1	INITIAL SPARES	
B1.1	Mechanical & Hydraulics	
B1.1.1	Replacement of all bearings (with SKF/FAG/NTN make only), irrespective of their size and present condition.	140000
B1.1.2	Replacement of all worn out gears, couplings, other accessories in the machine with new ones complying to IS standards and specified quality materials complying with the original manufacturer's specified tolerances.	118400
B1.1.3	Replacement of all the missing handles and levers. All these levers and the handles shall be Nickel-plated.	29600
B1.1.4	Providing "Drop Co" make centralized lubrication system with required accessories for the machine	39200
B1.1.5	Replacement of carriage drive steel belt with new one. And one spare belt.	57600
B1.1.6	Replacement of Feed drive clutch unit with new one. Spare set of clutch plates	50400
B1.1.7	Replacement of tape tension indicating load cell & gauge with new one. Calibration certificate for Gauge.	28800
B1.1.8	Replacement of headstock drive belts (size: B104, 03 Nos, Fenner Make) with new ones and 3 spares	10000
B1.1.9	Replacement of Headstock drive motor pulley with new one.	21600
B1.1.10	Replacement of tape holder and mounting bracket as per requirement.	24000
B1.1.11	Replacement of wipers in the machine as per requirement.	16000
B1.1.12	Replacement of oil level indicator with new one	1200
B1.1.13	Machine painting as per scope (Clause A-8)	30000
	Total B1.1 (Mechanical Spares)	566800
B1.2	Electrical & Electronics	
B1.2.1	Supply of New motor with brake for headstock drive, ABB or Siemens make only Rating of Motors : 3-ø, 415 VAC, 10 HP, 1440 rpm	65000
B1.2.2	Variable frequency drive capacity 10 KW Heavy duty, ABB or Siemens Make, 3-Phase	144000
B1.2.3	Fully wired, stand-alone, floor mounting type new electrical control panel of RITTAL or reputed make, with minimum IP54 degree of protection. Necessary cooling to be provided, if required. The panel shall have adequate door locks.	180000

S No.	Description	BHEL Estimate in INR Rs.
	Dimensions of the existing desk type main control/operator panel are 1200 mm (W) x 1000 mm (H) x 600 mm (D). The new control panel should be desk-type of about same dimensions for easy and comfortable operation by the operator.	
B1.2.4	Junction boxes (1No's) in the machine is to be replaced with new ones Limit switches for carriage movement (02 Nos) is to be replaced with new one	14400
B1.2.5	Footswitch for chuck operation shall be replaced with new one.	12000
B1.2.6	Isolation transformer shall be provided for panel	60000
B1.2.7	MCCB shall be provided for Machine Mains ON/OFF	14800
B1.2.8	Emergency PBs, switches for start/stop & direction selection of carriage, inch /continuous selection & CW/Stop/CCW rotation, auxiliary functions, machine lamp on/off switch, panel on/off main switch etc. shall be provided on main operator panel. Make: As per scope (Clause C-14 & C-15)	20000
B1.2.9	REGULATED DC POWER SUPPLY: (Qty. 2) 1 Nos. of Siemens or reputed make 24 V regulated DC power supply units of suitable capacity for field devices	69600
B1.2.10	Control transformers (wherever required) of suitable capacities for 220 VAC and other AC control voltages required for operation of the auxiliaries in the machine.	28800
B1.2.11	Digital Energy meter of reputed make is to be provided on main electrical control panel door to indicate and record total consumption of electric power for the complete machine including auxiliary systems.	21600
B1.2.12	Indication lamps wherever required are to be provided with new ones. (Control on & 3 Phase power)	10000
B1.2.13	Indicating instruments shall be replaced with new ones of reputed make. (Ammeter and Voltmeter on Panel)	19200
B1.2.14	Any other material, not mentioned above, but required to keep the machine in working condition with all original features and functions are in the vendor's scope.	0
B1.2.15	LED machine lamp 02 Nos shall be provided	10000
B1.2.16	Maintenance tools as per below list: 1. Fluke multi meter	25000
	 Fluke Clamp meter Wire cutter, Combination plier, Screwdriver set, Long nose plier, Tester, Philips screwdriver 	
	Total B1.2 (Electrical Spares)	694400
В	Total Material (Initial Spares) Cost B1=B1.1+B1.2	1261200
C	Grand Total, $C = A+B$	1813200
D	GST @18 % on C = D	326376
E	Grand Total including GST i.e. E=C+D	2139576
F	Cost to BHEL i.e. F=E-D	18,13,200/-

- 1. Tenderer is required to quote their percentage of less/excess/at par in figures and words over the estimate as stated above.
- 2. Tenderer is not allowed to change the estimate. Alteration of the estimate by the tenderer leads to rejection of his bid.
- 3. The below offered percentage by the tenderer is proportionately applicable for all item rates.

Tender %	In Words	Figures
Excess		
Less		
Estimate		

Note

- 1. In case of mismatch of words and figures, lower of the two will be taken.
- 2. GST @ 18% extra on total order value.
- 3. Kindly note that, the vendor has to bear the excess in taxes and duties in case of delayed delivery schedule