





BHARAT HEAVY ELECTRICALS LIMITED
Heavy Power Equipment Plant, Ramachandrapuram,
Hyderabad - 502 032. INDIA.
Phones :
Purchase Dept. : Fax:
E-mail :

Indent No. :
Date :
Enquiry No. :
DueDate :
Date:

Vendor Qtn. No.:

TENDER DOCUMENTS TO BE FILLED BY THE Vendor FOR SUPPLY OF[1 No.]
Vickers Cum Brinell Hardness Testing Machine

ADDRESS OF THE Vendor :		ADDRESS OF THE INDIAN AGENTS:	
TELEPHONE NOS.:		TELEPHONE NOS.:	
FAX NOS.:		FAX NOS.:	
E-MAIL ADDRESS :		E-MAIL ADDRESS:	
NOTE:			
1. Vendor shall submit complete information against each clause of the specification given below point by point.			
2. The Vendor should fill the "Offered" Column in compliance to specified requirements and also "Deviations" column, where there is deviation from the requirement. Duly filled specification cum compliance certificate should be submitted along with the bid. Inadequate, incomplete, ambiguous or unsustainable information against any of the clauses of the specifications/requirements shall be treated as non-compliance			
3. The offer and all the documents enclosed with bid should be in English language only.			
4. The main equipment and accessories required for the machine to be offered.			
Sl.No.	Description for BHEL Requirement	Offered	Deviations
	Purpose:		Remarks
	Vickers cum Brinell Hardness Testing machine as per ASTM E384 & ASTM E10 for hardness testing of components after Nitriding shall be quoted		
1	Technical details		
	a) Load Requirements in Kgf : 5,10,20,30,50,100,upto120kgf (for vickers) & 15.625,31.25,187.5,upto 250 Kg(for Brinell) Any other load in addition to the above with in range is acceptable.		
	b) Loading cycle should be push button and unloading manually by hand lever		
	c) Optical magnification one each within these three ranges: (20X-50X), (50X-100X) & (100X -140X)		
	d) Maximum Test Height:250mm		
	e) Depth of throat:150mm (minimum)		

Sl.No.	Description for BHEL Requirement	Offered	Deviations	Remarks
	f) Maximum size of machine:660mm(length)x320mm(width)x990mm(height)			
	g) Testing table size: Round Corner Rectangular Flat table 400mm(length) X 260mm (width).Other near by sizes can also be acceptable.			
	h) Input electric power supply:230±10%V,50Hz,single phase AC			
	i) Power cable of Atleast 5 meter			
	j) Items required for machine foundation should be offered by supplier			
	k) Standard test blocks with calibration certificates			
	l) Equipment should be calibrated after installation			
	m) Vendor shall provide details of standard accessories supplied along with machine			
	n) Accessories for the calibration of the system shall be provided.			
	o) Price of the machine shall include standard accessories			
2	Standard Accessories must include following items			
	a) Flat table of 100 mm dia-1 No.			
	b) Vee table for specimen-6 to 80 mm dia-1 No.			
	c) Vickers Diamond Indenter-1 No.			
	d) 2.5 mm Ball indenter-1 No.			
	e) 5 mm Ball indenter-1 No.			
	f) Vickers Hardness Test Block @30kgf -1 No.			
	g) Brinell Hardness Test Block@187.5kgf-1 No.			
	h) Electrical Cord-1 No.			
	i) Instruction Manual-1 No.			
	j) 2.5 mm Tungton Carbide Ball-1 No.			
	k) 5 mm Tungton Carbide Ball-1 No.			
3	Spares required :Unit Rate to be quoted separately for each item mentioned below.			
	a) Vickers diamond indenter-1No			
	b) Ball indenter 5mm- 1 No			
	c)Ball indenter 2.5mm- 1 No			
	d) Microscope bulb-12 No.			
	e) Fuses-6 Nos.			
4	The Vendor shall furnish technical catalogue of the proposed equipment alongwith quotation and customers reference in India for the above equipment.			
5	Five sets of operating instruction manuals/schematic drawing shall be sent alongwith civil foundation plan.			
6	BHEL engineers will inspect above equipment prior to shipment at Vendor 's works. It is the resposibility of the Vendor to prove all conditions of specification by providing required samples & tools at Vendor works. Sufficient advance inspection call to be given to BHEL and shall make necessary arrangements for the predespach inspection,However BHEL will bear expenditure of travelling,boarding & loading of the BHEL inspector.			

Sl.No.	Description for BHEL Requirement	Offered	Deviations	Remarks
7	ERECTION & COMMISSIONING			
7.1	Vendor to take full responsibility for carrying out the erection, startup, testing of the system, its control & all types of other supplied equipment/accessories etc. Service requirement like power shall be provided by BHEL at only one point to be indicated by Vendor in their foundation / layout drawing. Other requirement like helping manpower shall be provided by BHEL.			
7.2	Vendor shall erect and commission the above machine at BHEL Hyderabad. Suitable training on all operational aspects and routine maintenance to be given by Vendor to BHEL engineers.			
7.3	The offer shall include following modality for erection & commissioning of the machine:			
	i. Complete erection and commissioning on turnkey basis.			
	ii. The Vendor shall do commissioning and provide necessary training to BHEL personnel and guidance during commissioning, Vendor has to repeat all geometrical accuracy tests, for which all tools etc. are to be arranged by the vendor at their risk.			
	iii. All foundation bolts/ anchoring materials/fixators/levelling shoes etc. required for final erection of the machine shall be provided by the Vendor along with basic machine.			
8	FOUNDATION:			
8.1	Foundation Design: In case any special foundation is required for installing the machine, detailed foundation drawings to be offered . The vendor should agree to supply 5 copies of machine layout and drawings within one month of placement of LOI/Order.			
9	GUARANTEE			
9.1	The machine shall be guaranteed for satisfactorily and trouble free service for at least 24 months from the date of commissioning and final acceptance. Any spare required during the guarantee period shall have to be arranged by the Vendor at free of cost.			
10	The Vendor shall explain in detail how the after sales service will be organised. The number of service engineers trained , qualified and experienced to attend service calls and details about ready availability of spares Shall be mentioned. Time taken for service engineers to Reach the site upon receipt of break down call shall be Indicated and assured.			

Sl.No.	Description for BHEL Requirement	Offered	Deviations	Remarks
11	QUALIFICATION REQUIREMENTS:			
11.1	The Vendor shall have a minimum experience of 5 years in manufacturing of ASTM hardness testing machine as per ASTM E384 & ASTM E10 and should have supplied at least 2 equipment's of the model quoted to various reputed organisations preferably in India.			
11.2	The Vendor shall submit a Reference List of Customers for the model quoted including the names of the user contact persons, telephone numbers and e mail addresses.			
11.3	Performance Certificate from CUSTOMERS (minimum 2 Customers) with full contact details of CONTACT PERSON shall be submitted preferably in India.			
12	If any thing missing in the above specifications it has to be strictly meet latest standard of ASTM E384 & ASTM E10.			
13	PACKING			
13.1	Rigid packing to be made for all items of complete machine, all accessories and other supplied items to avoid any damage/loss in transit. When machine is dispatched in containers, all small loose items shall be suitably packed in boxes. Packing list to be provided in the box			



STANDARD TERMS & CONDITIONS FOR PROCUREMENT OF CAPITAL EQUIPMENT
[FORMAT TO BE FILLED-UP BY THE SUPPLIER]

VENDORS HAVE TO OFFER THEIR TERMS IN THE ALLOTTED COLUMN AND SHALL IDENTIFY DEVIATIONS DISTINCTLY. Suppliers, to fill the following format by writing "Confirmed" in the Supplier Confirmation column. Deviations if any shall be specified in the deviation column. After filling, document shall be submitted after signing and stamping with Official seal.

S/N	BHEL Standard Terms	Supplier Confirmation	Deviation
01	Terms of Delivery:		
(a)	Indigenous Supplies : FOR - Destination means FOR - B.H.E.L. Hyderabad stores. (Packing & Forwarding, Freight & Insurance are in Supplier's scope i.e. included in the quoted prices) . Ex-works is not acceptable.		
(b)	Foreign Supplies : Foreign supplies have to be made on Incoterm CIF basis (i.e. Inclusive of Sea/Air worthy packing and inclusive of all freight and Insurance upto Mumbai Sea Port . Foreign supplies will be loaded with 2.1% towards inland freight & insurance from Mumbai to BHEL Hyderabad stores for tender evaluation purpose. Notes: i)Offer with terms of delivery other than CIF are liable for rejection. ii)Trans-shipment strictly not permitted.		
(c)	In case,any shortage is noticed viz-viz PO requirement in the main equipment/spares,such shortage shall be replenished by supplier on FOR destination basis without any cost implication to BHEL i.e. Custom Duty and freight charges etc.upto destination for such short supplies shall be borne by the supplier. Please also note that any short supply will attract imposition of penalty on the total P.O. value.(Supply+E&C).		
02	Delivery Period:		
	The Bidder should quote their earliest schedule with respect to date of P.O. and upto quoted Terms of Delivery. The delivery period in no case shall be linked with extraneous conditions/stipulations such as approval of drawings etc.		
03	Payment Terms: Offer with deviations to BHEL Payment Terms will be loaded as under.a)Bench Mark Prime Lending Rate (BPLR) of SBI as applicable on the scheduled date of Tender Opening +2%, for the amount and period of relaxation sought by the bidder.b)On account of payment through LC, if insisted by bidder, bank charges shall also be loaded for the deviation in i)opening of LC by BHEL ii)period and amount of LC w.r.t NIT norms, as per the prevailing bank rates. Offers with insistence of advance payment are liable to be rejected. In no case BHEL shall accept liability towards interest.		
(a)	Terms of payment for Indigenous Offer:(E&C is to be done by vendor)		
(i)	80% payment of supply value will be made on 45th day from the date of receipt of material at BHEL Stores, Hyderabad. Balance 20% of supply value + 100% E & C portion of P.O. value will be paid after successful commissioning of the equipment and subjected to submission & acceptance of Performance Bank Guarantee of 10% of contract value valid for 30 days beyond the guarantee period.		
(b)	Terms of Payment for Foreign Offers:(E&C is to be done by vendor)		
(i)	Total supplies are to be from Foreign Source. Where the payments are through L.C (L.C opening charges are to be loaded) payment of supply value shall be 80% on dispatch and 20% on issue of E&C certificate.Payment of E&C value shall be made against E&C certificate issued by BHEL. E&C certificate shall be issued on satisfactory completion of Erection, Commissioning, Job proving, Performance tests, Training to operators etc. as envisaged in PO. The L.C. shall be opened by BHEL as per the following. 1) First letter of Credit for 80% value (less Agency Commission) shall be opened 1 month before confirmed date of despatch valid for 3 months and is encashable against Shipping Documents and submission of Pre-inspection Report (If applicable) of BHEL negotiated through bank.		
(ii)	When ever there is an Indian Agent to represent a Supplier, it is essential to give the details of services to be rendered by Indian Agent and / or the details of agreement between Supplier and Agent. Supplier to indicate the Agency Commission payable. Indian Agency Commission will be paid only in Indian Rupees, calculated at the rate of exchange prevailing on the date of the tender opening. This is payable on satisfactory completion of the contract. Note: In order to maintain sanctity of the tender system, it is essential that one Agent cannot represent two Suppliers or quote on their behalf in a particular tender enquiry. If any Agent represents more than one Suppliers, all the offers associated with the Agent will be rejected.		
(iii)	The second irrevocable & unconfirmed letter of credit for 20% & E&C Charges will be opened 15 days prior to the scheduled and confirmed arrival of the technicians of supplier with their names The validity of this L/C would be sufficient to cover the period required for the completion of E&C + 21 days as negotiation period. This L.C can be negotiated i)after completion of the E&C of the equipment in BHEL. This is subject to the submission of Performance Bank Guarantee for 10% of contract value valid for 30 days beyond the Guarantee / Warranty period of 24 months from the date of commissioning. The bank guarantee is to be attested by Indian Embassy & to be registered in India. PBG confirmation charges shall be borne by vendor.		
4	Warranty / Guarantee Period: Equipments shall be guaranteed against workmanship, materials used, design and performance should be for a period of 24 months from the date of commissioning of equipment. Loading Factor for non-acceptance of Guarantee Period: Less than 24 months from commissioning will attract loading of AMC charges for difference of quote with warranty / guarantee period. Example : If a Supplier provides 18 months guarantee period, in place of 24 months, then the difference of 6 months will be loaded with AMC charges of 4% per annum for difference period of 6 months i.e. 2% of total cost will be loaded.		

S/N	BHEL Standard Terms	Supplier Confirmation	Deviation
5	<p>Penalty for Delay in "Supply" : Delay in supply beyond the quoted delivery period will attract Penalty at a rate of 0.5% per week subject to max. of 10% of total PO value .In case any bidder is not accepting the above penalty for delayed supply the offer the bidder shall be loaded as follows.</p> <p>Loading Factor for non-acceptance of Penalty Clause: It will attract maximum 10% loading on the offer and accordingly proportionate percentage will be loaded for accepting less percentage of penalty clause. Example : If the Supplier has accepted for maximum 5% penalty clause, then balance 5% will be loaded on supply value for evaluating lowest bidder.</p>		
6	<p>Performance Bank Guarantee (PBG): The Supplier shall submit a PBG for 10% of the contract value valid for 30 days beyond Warranty / Guarantee period</p> <p>Offers with non-acceptance of Performance Bank Guarantee clause are liable to be rejected.Offers with less acceptance of PBG than the specified period and or value shall be loaded proportionately, during evaluation of the lowest bidder.</p>		
7	Erection & Commissioning (E & C) Schedule: Supplier to specify clearly the time period for erection & commissioning of the equipment starting with opening of cases against their supervision.		
8	Erection & Commissioning (E & C) Charges: Erection & Commissioning value will include services to be rendered at BHEL like Erection, Commissioning, Job proving, performance testing, training to operators etc. E&C value should be quoted separately by bidders.		
9	Essential / Mandatory Spares: Supplier to specify clearly the charges of Essential / Mandatory Spares in the form of Extra only (Itemized break-up with rate for each item as per specification shall be given). Requirement of technical specification need to be complied with.		
10	Validity: The quotation should be valid at least for a period of 180 days from the tender opening date. Price quoted should be on firm price basis. Price Variation Clause within this period will not be entertained.		
11	Risk Purchase: If the vendor fails to deliver the goods beyond penalty period specified in the Purchase Order, BHEL will be entitled to terminate the contract and to purchase elsewhere at the risk and cost of the supplier either the whole of the goods or any part which the supplier has failed to deliver or dispatch within the delivery period mentioned in the Purchase Order. <u>BHEL reserves the right not to consider offers from vendors not accepting the above Risk Purchase terms</u>		
12	PDI inspection :- PDI Invitation (If applicable) shall be given well before the Purchase order delivery date with adequate time period and PDI shall be completed 15 days before the P.O. delivery date. Vendor to Confirm.		
13	Commercial Terms & Conditions quoted in any place other than this format, including in Vendor's General Terms & Conditions enclosed, if any, shall be summarily ignored and be invalid for evaluation of Bids.		
14	Bidders shall quote applicable taxes & duties (i.e. Excise Duty, CST/VAT) in the form of Extra only. If Excise Duty is not applicable, specify it as "Nil" or "NA".		
15	BHEL reserves its right to reject/load the offers which are deviating to BHEL technical specifications and Standard Terms & Conditions		
16	Bidder can also submit offer through email at his own risk. However, such email offers shall be sent only to tenderbox@bhelhyd.co.in. Supplier shall have no claim on e-mail offers sent on any other e-mail ID. BHEL is no way responsible for non receipt of offers sent thru email due to server break down / Internet failure/ transmission error etc. In case of e-mail offers, vendor name, address including contact details shall be mentioned.		
17	BHEL has a right to cancel the order for delay in supply beyond penalty period without any monetary or legal obligations.		
18	All disputes arising in connection with the contract shall be settled by mutual consultation. If no agreement is reached the dispute shall be settled in accordance with the provisions of the Arbitration and Conciliation Act, 1996 and the rules made there under. The dispute shall be referred for arbitration to any arbitrator to be appointed by the Head of the Unit, BHEL-Hyderabad. The award of the arbitrator shall be final and binding on both the Parties. The venue of the Arbitration shall be Hyderabad in India. The Award given by the Arbitrator shall be a speaking award and in English language. All questions, disputes, differences arising under, out of or in connection with this contract		