



केन्द्रीय हस्त औज़ार संस्थान, जालन्धर
CENTRAL INSTITUTE OF HAND TOOLS, JALANDHAR

भारत सरकार की सोसायटी
सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय

Government of India Society
Ministry of Micro, Small & Medium Enterprises



ISO 9001:2008
ISO 14001:2004
Certified Institute

No. CIHT:JAL:P:499(Vol.VII):
(In reply, please quote this number)

Dated: / / 2018

Messers _____

Subject: **TENDER DOCUMENTS.**

Dear Sir,

Online tender under two bid system (Technical & Commercial separately) are invited from the manufacturers/suppliers for the purchase of Computer Control Electro-Hydraulic Servo Universal Testing Machine, Capacity: 1000 KN (01 No.) as given below:

**01. Computer Control Electro-Hydraulic Servo Universal Testing Machine,
Cap. 1000 KN - (01 No.)**

A set of tender documents containing detailed specifications including terms and conditions for the purchase of Computer Control Electro-Hydraulic Servo Universal Testing Machine, Capacity: 1000 KN (01 No.) is attached herewith as Annexure-I.

You are requested to fill up the tender document strictly as per the enclosed format. The specifications of the item offered by you must be indicated against our required specifications.

Last date for online receipt of tenders duly complete in all respects is **13th November 2018 before 2.30 PM.** The Online technical bids shall be opened on **14th November 2018 at 2.30 PM.**

Thanking you,

Yours faithfully,

Sd/-

[P.K. VERMA]

**Dy. Director (Purchase)
For PRINCIPAL DIRECTOR**

Encls.: As above.

ANNEXURE-I

Sr. No.	Description of Item Required	CIHT Specifications	Supplier's Specifications
01.	Computer Control Electro-Hydraulic Servo Universal Testing Machine, Capacity: 1000 KN - 01 No.		
	<ul style="list-style-type: none"> - Computer Control Electro-Hydraulic Servo Universal Testing Machine, Capacity: 1000 KN - Machine Suitable for Tensile test, Compression test, Bending test and Shearing Strength test. - Machine complies with ASTM, DIN, ISO Standard. - Over load protection: Overload protection adjustable up to 5% overload. - Over Stroke protection: When the ram reaches its upper limit position, the pump unit shall stop. - Protection system for front and back side of the sample at the gripping area to avoid the injury to operator and operating system. 		
	Technical Specifications:		
	Max. Load	1000 KN	
	Load Measuring Range	4-1000 KN	
	Load Accuracy	≤ ± 0.5% between 2-100% of machine capacity.	
	Deformation Accuracy	≤ ± 0.5%	
	Load Resolution	1/200000	
	Displacement Resolution	0.01 mm	
	Load Measuring Mode	Load Cell	
	Displacement Measuring Mode	Photoelectric encoder	
	Driving Method	Hydraulic System	
	Test Curves' Mode	Load - deformation, Load - time, Load - Displacement, Stress - Strain, Time - Stress, Time - Strain, Deformation - Time, Displacement - Time etc.	
	Parameters Processed with Computer	Upper & Lower yield point strength ReH & ReL, max. load point, breaking strength, stress, deformation, elongation rate, elastic modules & 6P0.2 etc.	
	Control Mode	Displacement control; Load control; Strain control; Stress control.	
	Max. Tensile Space	700 mm including piston stroke.	
	Max. Effective Compression Space	620 mm	
	Clamps for Flat Specimen	Thickness 0 - 40 mm	
	Clamps for Round Specimen	Diameter Ø 20 - 60 mm	
	Compression Plate Diameter	Ø 130 mm minimum	
	Bending Test Effective Space	50 - 500 mm	
	Ram Stroke	250 mm	
	Crosshead Lifting Speed	280 mm/min.	
	Testing Speed Control Range	0.5 - 50 mm/min.	
	Deformation Measuring Mode	Extensometer of GL 50 mm, Range 10 mm	
	Power Supply	415 VAC, 50 Hz, 3 Phase	

	Standard Accessories Required:	
1.	Front open hydraulic grips for Flat & Round specimens Grips for round specimen (Dia.) Ø 6 - 60 mm – 1 Set Grips for flat specimen (thickness) 0~ 40 mm – 1 Set	
2.	Bending attachment – 1 Set Bending test effective space: 50 - 500 mm	
3.	Compression Plate Dia. 145 mm/min. – 1 Set	
4.	Shear Test Attachment for specimen dia 6-20 mm (Small & Big Test) – 1 Set	
5.	Electronic Extensometer as per ASTM E83, Class B2 duly Calibrated and incorporated with UTM Machine – 1 No. Gauge length 50 mm, travel 10 mm, 5mm travel and 25 mm gauge length, 2 mm Exten.	
6.	Aar Baar testing attachment for C R Strip – 1 Set Aar Baar test software with 100% performance.	
7.	Extra round jaws up to 6 mm – 20 mm dia.	
8.	Safety guard required – 1 Set	
9.	Load Cell Flat load cell +/- 1000 kN	
10.	High precision photoelectric encoder Measuring the displacement – 1 Set	
11.	High pressure hydraulic pack – 1 Set Equip with hydraulic power pack for loading and for clamping specimen.	
12.	Branded DELL/HP Computer, Printer and English version software, Hard Disc-500 GB, RAM-4 GB. Window 7 based Software with Original Window 7.	
13.	Warranty Required 24 Months after commissioning.	
14.	NABL Accreditation required for Calibration after installation.	
15.	The calibration of the machine after installation in compression and tensile mode from NABL accredited Lab.	
16.	NABL Accreditation required for minimum valid for two years after installation.	
	SOFTWARE:	
1.	Software Features: <ul style="list-style-type: none"> - Integrated full digital electro-hydraulic servo close-loop control, data processing with data analysis. - Process multi kinds of full digital close-loop control modes, such as test load, displacement, stress and strain. Different control modes can be switched each other freely and smoothly. - Software is managed by multi levels and expert user can use all system parameters, which combined the flexibility of software usage and safely & reliability of the system. - Automatic data processing. Processing method complies with multi international standards, such as ISO6892-1998, EN10002-1:2001 and ASTM. - Multi international units are adopted, such as SI, metric system unit and Britishλ measurement etc. 	

	<ul style="list-style-type: none"> - Maintain multi language conversion interface, so the system can be applied underλ conditions of various kinds of languages conveniently (Customized). - Process function of manual data processing, which fits to various kinds of complicatedλ data processing for customer. - Offer test reports, which can be stored, printed and re-analyzed. - Test data is stored as the form of “text mode and any general commercial data processing software can reprocess test data. - Rich & perfect assorted test curves. - Possess the function of integrated document operating system, for example, test report, test parameter, system parameters can be stored as the form of “text mode” - Different kind of software facility will be required i.e. 3-point bend test, 4-point bend test, compression test r, n value as per (ISO 10275 / ISO 10113, tensile test at ambient temperature as per (ISO 6892). - Control system is based on software and upgrade easily. <p>2. Software & Hardware configuration to be mentioned.</p> <p>3. Installation and Commissioning to be carried out by supplier.</p> <p>4. Training to be provided by the supplier.</p>	
	<p>NOTE:</p> <ul style="list-style-type: none"> - The performance curve with regard to accuracy has to be supplied by the supplier. - The supplier must attach a documentary proof of supply of this specification machine to Govt. R&D industries / Agency with contact no./address of the dept. 	

TERMS & CONDITIONS:

01. The Online tender under two bid system (Technical & Commercial) should be submitted.
02. The rates quoted should be on F.O.R. destination basis.
03. The tender/quotation should remain valid for 90 days from the date of opening of the tender.
04. The tender/quotation should be made in lumpsum price separately for any/each item.
05. In case available on DGS&D rate contract, please attach valid Registration Certificate.
06. 90% Payment shall be made after delivery and installation, commissioning, successful trial, functioning & training of the offered item at CIHT, Jalandhar and remaining 10% in one month subject to final acceptance of stores. **The party will have to deposit a Performance Bank Guarantee equal to the 5% amount which will remain valid till Warrantee period.**
07. (a) A demand draft/pay order amounting Rs.50,000/- (Rupees Fifty Thousand only) in the name of the Principal Director, Central Institute of Hand Tools payable at Jalandhar towards lumpsum amount of Earnest Money (Refundable) must be submitted at Central Institute of Hand Tools, Jalandhar by 13.11.2018 before 2.30 PM. The same will be forfeited, if the execution of the order is not made in time. **The offers without Earnest Money Deposit will be considered as unresponsive and will be rejected.**
 (b) Parties registered with DGS&D or NSIC under Government Store purchase programme are exempted from the payment of Earnest Money. **A photocopy of the valid Registration Certificate must be attached with the Technical Bid.**

08. The Principal Director, Central Institute of Hand Tools, Jalandhar does not undertake any responsibility for online submission of tenders and also reserves the right to reject any or all the tenders either in part or full without assigning any reason thereof.
 09. The tender/quotation should be addressed to The Principal Director, Central Institute of Hand Tools, G.T. Road, Bye Pass, Opp. Shaheed Bhagat Singh Colony, Jalandhar City as **“TENDER/QUOTATION FOR SUPPLY OF COMPUTER CONTROL ELECTRO-HYDRAULIC SERVO UNIVERSAL TESTING MACHINE, CAPACITY: 1000 KN”** and should be submitted online latest by **13th November, 2018 before 2.30 PM.**
 10. The Online Technical bids shall be opened online on **14th November, 2018 at 2.30 PM.**
 11. The Purchase Committee has the right not to accept the lowest rates quoted by the suppliers/manufacturers without assigning any reason.
 12. Non fulfilling of any of the conditions, the tenders/quotations are liable to be rejected.
 13. The decision of the Purchase Committee shall be final and binding on all the parties.
 14. Conditional, late, incomplete and telegraphic tenders or tenders without earnest money shall not be accepted.
 15. The tender documents can also be downloaded from **Website: eprocure.gov.in** and the party will have to pay Rs.500/- by means of demand draft at the time of submission of tender.
 16. The manufacturers/suppliers should clearly mention about the following points:
 - (i) Price on F.O.R. Destination basis
 - (ii) Packing & Forwarding Charges
 - (iii) G.S.T.
 - (iv) Freight Charges
 - (v) Transit Insurance
 - (vi) Installation & Commissioning Charges
 - (vii) Place of Inspection
 - (viii) Delivery Period
 - (ix) Guarantee/Warranty/Support
 - (x) Validity of Offer
 - (xi) Earnest Money Deposited or Registered with DGS&D/NSIC
 - (xii) Training to our Personnel
 - (xiii) Payment terms
 - (xiv) User list with addresses & contact nos.
 - (xv) Copy of OEM, Authorized Dealer Certificate
 - (xvi) Copy of Product Catalogue/Information/Leaflet
 - (xvii) Your GST No./PAN No./TAN No.
 17. All disputes are subject to Jalandhar jurisdiction.
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Sd/-
[P.K. VERMA]
Dy. Director (Purchase)
For PRINCIPAL DIRECTOR