Notice Inviting Quotation (E-Procurement mode)

INDIAN INSTITUTE OF TECHNOLOGY DELHI HAUZ KHAS, NEW DELHI-110016

Dated: 24/10/2017

Open Tender Notice No.IITD/BTXT(SP-1325)/2017

Indian Institute of Technology Delhi is in the process of purchasing following item(s) as per details as given as under.

Details of the item	Universal Testing Machine 250 KN Capacity
Earnest Money Deposit to be submitted	NIL
Warranty	3 Years
Performance security	NIL

Tender Documents may be downloaded from Central Public Procurement Portal http://eprocure.gov.in/eprocure/app. Aspiring Bidders who have not enrolled / registered in e-procurement should enroll / register before participating through the website http://eprocure.gov.in/eprocure/app. The portal enrolment is free of cost. Bidders are advised to go through instructions provided at 'Instructions for online Bid Submission '.

Tenderers can access tender documents on the website (For searching in the NIC site, kindly go to Tender Search option and type 'IIT'. Thereafter, Click on "GO" button to view all IIT Delhi tenders). Select the appropriate tender and fill them with all relevant information and submit the completed tender document online on the website http://eprocure.gov.in/eprocure/app as per the schedule given in the next page.

No manual bids will be accepted. All quotation (both Technical and Financial should be submitted in the E-procurement portal).

Schedule

Name of Organization	Indian Institute of Technology Delhi
5	Open
Tender Category (Services/Goods/works)	Goods
Type/Form of Contract (Work/Supply/ Auction/ Service/ Buy/ Empanelment/ Sell)	Buy
Product Category (Civil Works/Electrical Works/Fleet Management/ Computer Systems)	Others
Source of Fund (Institute/Project)	Budget Code: CEQPT
Is Multi Currency Allowed	YES
Date of Issue/Publishing	24/10/17 (12:00 Hrs)
Document Download/Sale Start Date	24/10/17 (12:00 Hrs)
Document Download/Sale End Date	14/11/17 (15:00 Hrs)
Date for Pre-Bid Conference	
Venue of Pre-Bid Conference	
Last Date and Time for Uploading of Bids	14/11/17(15:00 Hrs)
Date and Time of Opening of Technical Bids	15/11/17 (15:00 Hrs)
Tender Fee EMD	RsNIL/- (For Tender Fee) RsNIL/- (For EMD) (To be paid through RTGS/NEFT. IIT Delhi Bank details are as under: Name of the Bank A/C : IITD Revenue Account SBI A/C No. : 10773572622 Name of the Bank : State Bank of India, IIT Delhi, Hauz Khas, New Delhi-110016 IFSC Code : SBIN0001077 MICR Code : 110002156 Swift No. : SBININBB547 (This is mandatory that UTR Number is provided in the on-line quotation/bid. (Kindly refer to the UTR Column of the Declaration Sheet at Annexure-II)
No. of Covers (1/2/3/4)	02
Bid Validity days (180/120/90/60/30)	120 days (From last date of opening of tender)
Address for Communication	Prof. (Dr.) B. K BEHERA, Department of Textile Technology, IIT Delhi- New Delhi-110016
Contact No.	011-26596619
Fax No.	011-26581103
Email Address	behera@textile.iitd.ac.in

Chairman Purchase Committee (Buyer Member)

Instructions for Online Bid Submission:

As per the directives of Department of Expenditure, this tender document has been published on the Central Public Procurement Portal (<u>URL:http://eprocure.gov.in/eprocure/app)</u>. The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

More information useful for submitting online bids on the CPP Portal may be obtained at:

http://eprocure.gov.in/eprocure/app

REGISTRATION

- 1) Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: http://eprocure.gov.in/eprocure/app) by clicking on the link "Click here to Enroll". Enrolment on the CPP Portal is free of charge.
- 2) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- 3) Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- 4) Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / TCS / nCode / eMudhra etc.), with their profile.
- 5) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSCs to others which may lead to misuse.
- 6) Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / eToken.

SEARCHING FOR TENDER DOCUMENTS

- 1) There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, organization name, location, date, value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as organization name, form of contract, location, date, other keywords etc. to search for a tender published on the CPP Portal.
- 2) Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective 'My Tenders' folder. This would enable the CPP Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.
- 3) The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

PREPARATION OF BIDS

- 1) Bidder should take into account any corrigendum published on the tender document before submitting their bids.
- 2) Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents including the names and content of

- each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
- 3) Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF formats. Bid documents may be scanned with 100 dpi with black and white option.
- 4) To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Space" area available to them to upload such documents. These documents may be directly submitted from the "My Space" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

SUBMISSION OF BIDS

- 1) Bidder should log into the site well in advance for bid submission so that he/she upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- 2) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- 3) Bidder has to select the payment option as "on-line" to pay the tender fee / EMD as applicable and enter details of the instrument. Whenever, EMD / Tender fees is sought, bidders need to pay the tender fee and EMD separately on-line through RTGS (Refer to Schedule, Page No.2).
- 4) A standard BoQ format has been provided with the tender document to be filled by all the bidders. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. Bidders are required to download the BoQ file, open it and complete the white colored (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.

OR

In some cases Financial Bids can be submitted in PDF format as well (in lieu of BOQ).

- 5) The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
- 6) All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done.
- 7) The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 8) Upon the successful and timely submission of bids, the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
- 9) Kindly add scanned PDF of all relevant documents in a single PDF file of compliance sheet.

ASSISTANCE TO BIDDERS

- 1) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
- 2) Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk. The contact number for the helpdesk is 1800 233 7315.

General Instructions to the Bidders

- 1) The tenders will be received online through portal http://eprocure.gov.in/eprocure/app. In the Technical Bids, the bidders are required to upload all the documents in .pdf format.
- 2) Possession of a Valid Class II/III Digital Signature Certificate (DSC) in the form of smart card/e-token in the company's name is a prerequisite for registration and participating in the bid submission activities through https://eprocure.gov.in/eprocure/app. Digital Signature Certificates can be obtained from the authorized certifying agencies, details of which are available in the web site https://eprocure.gov.in/eprocure/app under the link "Information about DSC".
- 3) Tenderer are advised to follow the instructions provided in the 'Instructions to the Tenderer for the e-submission of the bids online through the Central Public Procurement Portal for e Procurement at https://eprocure.gov.in/eprocure/app.

NOTICE INVITING QUOTATIONS

Dated: 24

/10/2017

Subject: Purchase of Universal Testing Machine 250KN

Invitation for Tender Offers

Indian Institute of Technology Delhi invites online Bids (Technical bid and Commercial bid) from eligible and experienced OEM (Original Equipment Manufacturer) OR OEM Authorized Dealer for **Supply, installation & integration of Universal testing Machine 250KN Capacity** with (warranty period as stated at page #1 of this tender) on site comprehensive warranty from the date of receipt of the material as per terms & conditions specified in the tender document, which is available on CPP Portal http://eprocure.gov.in/eprocure/app

TECHNICAL SPECIFICATION:

Sl. No	Technical Specifications
1	Load Frame Requirement
	❖ 250 KN UTM shall be Floor Model double column load frame with ball screws
	having anti backlash screw design.
	❖ Frame Axial Stiffness 630 kN/mm or better
	❖ Minimum crosshead travel 2260 mm or better
	❖ Available test space, width wise 630 mm or more
	* Position control resolution 0.00019 μm or better
	❖ Position repetition accuracy ±2 microns or better
	❖ Crosshead traverse speed 0.00005 mm to 600 mm/min. (stepless adjustable) with
	full load at full speed and vice versa.
	❖ High return speed: 1000mm/min or better
	❖ Accuracy of set speed ±0.05% of set speed or better
	Remote control with display - one-handed operation - can be used as remote control
	or operating panel - fast, high-precision positioning - pre-assigned functions Start,
	Stop, Approach Start Position, plus Open and Close Specimen Grips freely
	programmable keys 3.2" graphic display showing measurement channels, machine
	and test status and keyboard allocations
	Controller should have - Expansion of electronics to 6 slots (5 module bus + 1 PCIe)
2	Load Cell
	❖ 250 KN (Calibration range 500 N to 250 kN) with accuracy class1 as per
	IS:1969, IS:7071 (Pt. 4), DIN EN ISO 7500 standards)
	❖ 20 KN (Calibration range 80 N to 20 kN) with accuracy class1 as per IS:1969,
	IS:7071 (Pt. 4), DIN EN ISO 7500 standards)

	❖ 50 N (Calibration range 0.2 N to 50 N) with accuracy class1 as per IS:1969,
	IS:7071 (Pt. 4), DIN EN ISO 7500 standards)
	❖ Accuracy of load cells Both 0.5% & 1% as per IS:1969, DIN EN ISO 7500-1 (DIN
	51220, DIN 51302), ISO R147, ASTM E4, BS 1610 Grade A, NF A 03-501
	standards
	Calibration Certificate of Load Cell Dual calibration certificate of Load Cell as
	per Accuracy Grade 0.5 and class 1. The calibration of load cell should be as per
	following ISO 7500-1 guidelines.
	Breaking Force of Load Cell 300% of the Max. Load capacity of the load cell.
3	Digital Servo Drive System
	❖ Maintenance free brushless three-phase AC drive system and low friction
	ball screws with digitally controlled drive system. The drive should be
	capable for running the machine for full speed at full capacity of the machine
	and vice versa.
	CE conformity
	 Proper certificate should be provided by manufacturer mentioning the compliance
	according to machine guidelines 2006/42/EG
	according to machine guidennes 2000/42/EG
4	Digital Controller
_	Latest controller to accept various information from transducer like force,
	extensometer and displacement and scope of additional slots for future expansion
	controller should give pop up message if calibration is due
	 High speed real time synchronization of process data at all the channels,
	 Monitoring of safety and errors and reporting to the monitor,
	 Highest transfer rate of all the measured data to the host PC for accurate results. The transfer rate of all the measure data at 500 Hz or higher to the host PC for
	highly accurate results.
	Controller should not be just below the cross head to void any damage due to fall
	of oil, water etc.
5	250 KN Hydraulic Grips required for composites and high strength materials
	❖ 250 KN Hydraulic Wedge Grips for Fiber- Reinforced Composites, Hard and
	reinforced plastics, Ferrous and Non Ferrous Metals, Structural Sheet Metals, metal-
	ceramic composites, composites and other materials.
	❖ Automatic force zero control when specimen grips close - Automatic re-tightening
	to pre-set pressure during test should be possible
	• Outional control of coin alcoins and disconfigures about the grant that the control of the con
	Optional control of grip closing-speed via software should be possible for sensitive
	specimens • Ontion for control of arin closing rate via test software (flow rate limitation)
	 Option for control of grip closing-rate via test software (flow-rate limitation)
	❖ Hydraulic power-pack for hydraulic Grips
	❖ Flat samples up to 40 mm
	Round samples up to 22 mm dia.
6	Pneumatic grips type for Fabrics, F max 20 kN, with high gripping force,
Ü	extremely high gripping force of 50 kN
	❖ Jaw inserts, steel corrugated - Height x Width = 50 x 60 mm
	❖ Jaw inserts, Vulkollan smooth - Height x Width = 50 x 60 mm
	Pneumatic control unit with inching-mode function - Control via foot- operated switch
	- Closing pressure manually adjustable from 3 - 10 bar
L	Crosing product managing adjustment from 5 10 out

	❖ 20 kN Pneumatic Grips can be mounted directly on 250 kN Hydraulic Wedge Grips
	without removing 250 kN Hydraulic Grips
7	Spring loaded Grip 50N for fibres/textile yarns
	F max 50 N for fibers/yarns testing. Opening and closing and gripping via eccentric
	lever
	 Grip should have option of center stop for specimen
	❖ Jaw inserts, Vukollan, smooth
	❖ 50 N Grips can be mounted directly on 250 kN Hydraulic Wedge Grips without
	removing 250 kN Hydraulic Grips
0	Communicative Vita
8	Compression Kit:
	• One pair of 400 mm X 400 mm rectangular compression platens Fmax 250 kN. This can be directly mayned on 250 kN Hydraulia Wadge Gring without removing
	This can be directly mounted on 250 kN Hydraulic Wedge Grips without removing 250 kN Hydraulic Grips
9	ILSS KIT Fmax :20 kN , as per ASTM D 2344, ISO 14130
	❖ Interlaminar shear strength fixture with integrated manual spindle adjustment, ILSS
	- According to ASTM D2344 M, EN 2377, EN 2563
	 Centering stop for ILSS - In order to center the specimen on the span
	Adjustable distance gauge - Adjustable range from 8 20 mm
	❖ 20 kN ILSS Kit can be mounted directly on 250 kN Hydraulic Wedge Grips without
	removing 250 kN Hydraulic Grips
10	3 point & 4 point bending kit for composites ,Fmax 10kN
	❖ 3- and 4-point flexure kit for composites - According to ISO 14125, EN 2562 und
	ASTM D 7264 - Fmax 10 kN – Span
	❖ Flexure fin round, radius 5 mm - Fmax 10 kN
	❖ Upper anvil R5 - According to ISO 14125 and EN 2562
	❖ Centering stop for composite flexure test kit - According to ISO 14125, EN 2562
	and ASTM D 7264
	Fmax 10 kN 3 & 4 point bending kit for composites can be mounted directly on 250 kN Hydraulic Wedge Grips without removing 250 kN Hydraulic Grips.
	KN Trydraune wedge Grips without femoving 250 km Trydraune Grips.
11.	Video Extensometer for longitudinal and Transverse strain measurement
	Non-contact type video Extensometer. It should be mounted on the load frame with
	rigid holding. Tri-pod system will not be acceptable. It should also have the video
	capturing facility during the test. Includes test software and video extensometer
	software
	* It should capable of measuring Lateral and longitudinal Strain and poison
	ratio.
	❖ Graphics card for two monitors - Extension cards for controller and Ethernet for controller - 23" TFT display. Also include measurement marks for gauge length
	marking.
	 Automatic measurement mark detection .Recording of initial gage length Le -
	Accuracy grade 1 (at field of view < 200 mm) to EN ISO 9513 (steel) and ISO 527
	(plastics) - Resolution down to 0,25 μm (depending on field of view) - E-Modulus
	determination in tensile tests to DIN EN 10002-1
	❖ The software package includes following software options: width measurement,
	Test Re-Run incl. strain distribution, 2D dot-matrix.
	❖ Incident light LED for video extensometer - 500mm LED , illumination - Including
	optical filter for lenses

	 Optical filter for video extensometer - For additional lenses in conjunction with LED light
	Second measurement axis for poisons ratio / transverse strain measurement
	❖ Accuracy Class 1% according to EN ISO 9513 or better
	❖ 2 Objective lens: 8 mm Focal length with Field of View of 400 mm and
	Resolution of ±2 μm or better
	❖ 35 mm Focal length with Field of View of 80 mm and Resolution of ±0.4 μm or
	better
12	A suitable latest window based software for testing with suitable Computer
	system of reputed make Like Dell/HP
	❖ Preparation of test (e.g. tensile tests, Compression tests, Cycling tests, relaxation tests,
	as per all the international standards etc.).
	❖ IIT Delhi can also modify test program as per their own test requirement without
	following any particular standard.
	• User administration facility.
	Software should have the capability of synchronized video recording.
	 Evaluation/analysis of data and documentation including the following:
	Evaluation analysis of data and documentation mercaning the following.
	 Full statistical analysis,
	 Load-Elongation plot,
	o Stress-Strain plot,
	 Value of work of rupture,
	o Initial modulus, yield strain, upper/lower yield stress, proof stress,
	etc.
	o Results of 'n' No. of specimens and produce a resultant single
	average plot out of those 'n' No. of Load-Elongation & Stress-Strain
	plot apart from their individual plot.
	 Load values at 10 to 15 different user defined elongation value.
	 Elongation values at 10 to 15 different user defined load value.
	 Values of load parameters in user opted unit (kgf, N etc.)
	 Values of load parameters in user opted unit (kg), iv etc.) User defined report generation format,
	 Facility to store & export results in various format like word, excel, ASCII & PDF
	 Software with teaching modules for students will be preferred
13	Computer System
_	
	A suitable Computer system of reputed make Like Dell/HP should be provided,
	compatible with the requirement of above mentioned system.
14	Proof of Excellence:
	1. Vendor will arrange demonstration of the system within India upon request
	from the purchaser.
	2. The supplier should have installed same model in any of the IITs/NITs and
	any other centrally funded institute, also please attach performance
	certificate from user for reference.
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A complete set of tender documents* may be Download by prospective bidder free of cost from the website http://eprocure.gov.in/eprocure/app. Bidder has to make payment of requisite fees (i.e. Tender fees (if any) and EMD) online through RTGS/NEFT only.

Terms & Conditions Details

Sl. No.	Specification
1.	Due date : The tender has to be submitted on-line before the due date. The offers received after the
1.	due date and time will not be considered. No manual bids will be considered.
2.	Preparation of Bids: The offer/bid should be submitted in two bid systems (i.e.) Technical bid and financial bid. The technical bid should consist of all technical details along with commercial terms and conditions. Financial bid should indicate item wise price for the items mentioned in the technical bid in the given format i.e Financial Bids to be submitted in PDF format. The Technical bid and the financial bid should be submitted Online.
3.	EMD (if applicable): The tenderer should submit an EMD amount through RTGS/NEFT. The
3.	Technical Bid without EMD would be considered as UNRESPONSIVE and will not be accepted. The EMD will be refunded without any interest to the unsuccessful bidders after the award of contract. Refer to Schedule (at page 1 of this document) for its actual place of submission.
4.	Refund of EMD : The EMD will be returned to unsuccessful Tenderer only after the Tenders are
	finalized. In case of successful Tenderer, it will be retained till the successful and complete installation of the equipment.
5.	Opening of the tender : The online bid will be opened by a committee duly constituted for this purpose. Online bids (complete in all respect) received along with EMD (if any) will be opened as mentioned at "Annexure: Schedule" in presence of bidders representative if available. Only one representative will be allowed to participate in the tender opening. Bid received without EMD (if present) will be rejected straight way. The technical bid will be opened online first and it will be examined by a technical committee (as per specification and requirement). The financial offer/bid will be opened only for the offer/bid which technically meets all requirements as per the specification, and will be opened in the presence of the vendor's representatives subsequently for further evaluation. The bidders if interested may participate on the tender opening Date and Time. The bidder should produce authorization letter from their company to participate in the tender opening.
6.	Acceptance/ Rejection of bids: The Committee reserves the right to reject any or all offers without assigning any reason.
7.	Pre-qualification criteria: (i) Bidders should be the manufacturer / authorized dealer. Letter of Authorization from original equipment manufacturer (OEM) on the same and specific to the tender should be enclosed. (ii) An undertaking from the OEM is required stating that they would facilitate the bidder on a regular basis with technology/product updates and extend support for the warranty as well. (Ref. Annexure-II)
	(iii) OEM should be internationally reputed Branded Company.(iv) Non-compliance of tender terms, non-submission of required documents, lack of clarity of the specifications, contradiction between bidder specification and supporting documents etc. may lead to rejection of the bid.
	(v) In the tender, either the Indian agent on behalf of the Principal/OEM or Principal/OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender.(vi) If an agent submits bid on behalf of the Principal/OEM, the same agent shall not submit a bid on behalf of another Principal/OEM in the same tender for the same item/product.
8.	Performance Security : The supplier shall require to submit the performance security in the form of irrevocable bank guarantee issued by any Indian Nationalized Bank for an amount which is stated at page #1 of the tender document within 21 days from the date of receipt of the purchase order/LC and should be kept valid for a period of 60 days beyond the date of completion of warranty period.

9. **Force Majeure:** The Supplier shall not be liable for forfeiture of its performance security, liquidated damages or termination for default, if and to the extent that, it's delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure. For purposes of this Clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not limited to, acts of the Purchaser either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes. If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such conditions and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event. 10. Risk Purchase Clause: In event of failure of supply of the item/equipment within the stipulated delivery schedule, the purchaser has all the right to purchase the item/equipment from the other source on the total risk of the supplier under risk purchase clause. 11. Packing Instructions: Each package will be marked on three sides with proper paint/indelible ink, the following: i. Item Nomenclature ii. Order/Contract No. iii. Country of Origin of Goods iv. Supplier's Name and Address v. Consignee details vi. Packing list reference number 12. **Delivery and Documents:** Delivery of the goods should be made within a maximum of 08 to 16 weeks from the date of placement of purchase order and the opening of LC. Within 24 hours of shipment, the supplier shall notify the purchaser and the insurance company by cable/telex/fax/e mail the full details of the shipment including contract number, railway receipt number/ AAP etc. and date, description of goods, quantity, name of the consignee, invoice etc. The supplier shall mail the following documents to the purchaser with a copy to the insurance company: 4 Copies of the Supplier invoice showing contract number, goods' description, quantity 1. 2. unit price, total amount; Insurance Certificate if applicable; Manufacturer's/Supplier's warranty certificate; Inspection Certificate issued by the nominated inspection agency, if any Supplier's factory inspection report; and Certificate of Origin (if possible by the beneficiary); Two copies of the packing list identifying the contents of each package. The above documents should be received by the Purchaser before arrival of the Goods (except where the Goods have been delivered directly to the Consignee with all documents) and, if not received, the Supplier will be responsible for any consequent expenses. 13. **Delayed delivery:** If the delivery is not made within the due date for any reason, the Committee will have the right to impose penalty 1% per week and the maximum deduction is 10% of the contract value / price. 14. **Prices**: The price should be quoted in net per unit (after breakup) and must include all packing and delivery charges. The offer/bid should be exclusive of taxes and duties, which will be paid by the purchaser as applicable. However the percentage of taxes & duties shall be clearly indicated. The price should be quoted without custom duty and excise duty, since IIT Delhi is exempted from payment of Excise Duty and is eligible for concessional rate of custom duty. Necessary certificate will be issued on demand.

	In case of imports, the price should be quoted on FOB/FCA origin Airport Basis only. Under special circumstances (eg. perishable chemicals), when the item is imported on CIF/CIP, please indicate CIF/CIP charges separately upto IIT Delhi indicating the mode of shipment. IIT Delhi will make necessary arrangements for the clearance of imported goods at the Airport/Seaport. Hence the price should not include the above charges. At any circumstances, it is the responsibility of the foreign supplier to handover the material to our forwarder at the origin airport after completing all the inland clearing. No Ex- Works consignment will be entertained. "In case of CIF/CIP shipments, kindly provide the shipment information at least 2 days in advance before landing the shipment along with the documents i.e. invoice, packing list, forwarder Name, address, contact No. in India to save penalty/demurrage charges (imposed by Indian Customs). Otherwise these charges will be recovered from the supplier/Indian Agent."
15.	Notices: For the purpose of all notices, the following shall be the address of the Purchaser and Supplier. Purchaser: Prof. B K BEHRA Professor Dept. of Textile Technology Indian Institute of Technology Hauz Khas, New Delhi - 110016. Supplier: (To be filled in by the supplier) (All supplier's should submit its supplies information as per Annexure-II).
16.	Progress of Supply: Wherever applicable, supplier shall regularly intimate progress of supply, in writing, to the Purchaser as under: 1. Quantity offered for inspection and date; 2. Quantity accepted/rejected by inspecting agency and date; 3. Quantity dispatched/delivered to consignees and date; 4. Quantity where incidental services have been satisfactorily completed with date; 5. Quantity where rectification/repair/replacement effected/completed on receipt of any communication from consignee/Purchaser with date; 6. Date of completion of entire Contract including incidental services, if any; and 7. Date of receipt of entire payments under the Contract (In case of stage-wise inspection, details required may also be specified).
17.	 Inspection and Tests: Inspection and tests prior to shipment of Goods and at final acceptance are as follows: After the goods are manufactured and assembled, inspection and testing of the goods shall be carried out at the supplier's plant by the supplier, prior to shipment to check whether the goods are in conformity with the technical specifications attached to the purchase order. Manufacturer's test certificate with data sheet shall be issued to this effect and submitted along with the delivery documents. The purchaser shall be present at the supplier's premises during such inspection and testing if need is felt. The location where the inspection is required to be conducted should be clearly indicated. The supplier shall inform the purchaser about the site preparation, if any, needed for installation of the goods at the purchaser's site at the time of submission of order acceptance. The acceptance test will be conducted by the Purchaser, their consultant or other such person nominated by the Purchaser at its option after the equipment is installed at purchaser's site in the presence of supplier's representatives. The acceptance will involve trouble free operation and ascertaining conformity with the ordered specifications and quality. There shall not be any additional charges for carrying out acceptance test. No malfunction, partial or complete failure of any part of the equipment is expected to occur. The Supplier shall maintain necessary log in respect of the result of the test to establish to the entire satisfaction of the Purchaser, the successful completion of the test specified.

	 In the event of the ordered item failing to pass the acceptance test, a period not exceeding one weeks will be given to rectify the defects and clear the acceptance test, failing which the Purchaser reserve the right to get the equipment replaced by the Supplier at no extra cost to the Purchaser. Successful conduct and conclusion of the acceptance test for the installed goods and equipment shall also be the responsibility and at the cost of the Supplier.
18.	Resolution of Disputes : The dispute resolution mechanism to be applied pursuant shall be as follows:
10.	• In case of Dispute or difference arising between the Purchaser and a domestic supplier relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in
	accordance with the Indian Arbitration & Conciliation Act, 1996, the rules there under and any
	statutory modifications or re-enactments thereof shall apply to the arbitration proceedings. The dispute
	shall be referred to the Director, Indian Institute of Technology (IIT) Delhi and if he is unable or
	unwilling to act, to the sole arbitration of some other person appointed by him willing to act as such
	Arbitrator. The award of the arbitrator so appointed shall be final, conclusive and binding on all parties to this order.
	• In the case of a dispute between the purchaser and a Foreign Supplier, the dispute shall be settled by
	arbitration in accordance with provision of sub-clause (a) above. But if this is not acceptable to the supplier then the dispute shall be settled in accordance with provisions of UNCITRAL (United Nations Commission on International Trade Law) Arbitration Rules.
	• The venue of the arbitration shall be the place from where the order is issued.
19.	Applicable Law: The place of jurisdiction would be New Delhi (Delhi) INDIA.
20.	Right to Use Defective Goods
20.	If after delivery, acceptance and installation and within the guarantee and warranty period, the operation
	or use of the goods proves to be unsatisfactory, the Purchaser shall have the right to continue to operate
	or use such goods until rectifications of defects, errors or omissions by repair or by partial or complete
	replacement is made without interfering with the Purchaser's operation.
21.	Supplier Integrity
21.	The Supplier is responsible for and obliged to conduct all contracted activities in accordance with the
	Contract using state of the art methods and economic principles and exercising all means available to
	achieve the performance specified in the contract.
22.	Training
22.	The Supplier is required to provide training to the designated Purchaser's technical and end user
	personnel to enable them to effectively operate the total equipment.
23.	Installation & Demonstration
23.	
	The supplier is required to done the installation and demonstration of the equipment within one month of the arrival of materials at the IITD site of installation, otherwise the penalty clause will be the same
	as per the supply of materials.
	as per the supply of materials.
	In case of any mishappening/damage to equipment and supplies during the carriage of supplies from
	the origin of equipment to the installation site, the supplier has to replace it with new
	equipment/supplies immediately at his own risk. Supplier will settle his claim with the insurance
	company as per his convenience. IITD will not be liable to any type of losses in any form.
24.	Insurance: For delivery of goods at the purchaser's premises, the insurance shall be obtained by the
۷٠٠.	supplier in an amount equal to 110% of the value of the goods from "warehouse to warehouse" (final
	destinations) on "All Risks" basis including War Risks and Strikes. The insurance shall be valid for a
	period of not less than 3 months after installation and commissioning. In case of orders placed on
	FOB/FCA basis, the purchaser shall arrange Insurance. If orders placed on CIF/CIP basis, the
	insurance should be up to IIT Delhi.
25.	Incidental services: The incidental services also include:
	• Furnishing of 01 set of detailed operations & maintenance manual.
	• Arranging the shifting/moving of the item to their location of final installation within IITD premises
	at the cost of Supplier through their Indian representatives.
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26.	Warranty:
20.	(i) Warranty period shall be (as stated at page #2 of this tender) from date of installation of Goods at
	the IITD site of installation. The Supplier shall, in addition, comply with the performance and/or
	consumption guarantees specified under the contract. If for reasons attributable to the Supplier,
	these guarantees are not attained in whole or in part, the Supplier shall at its discretion make such
	changes, modifications, and/or additions to the Goods or any part thereof as may be necessary in
	order to attain the contractual guarantees specified in the Contract at its own cost and expense and
	to carry out further performance tests. The warranty should be comprehensive on site.
	(ii) The Purchaser shall promptly notify the Supplier in writing of any claims arising under this
	warranty. Upon receipt of such notice, the Supplier shall immediately within in 02 days arrange to
	repair or replace the defective goods or parts thereof free of cost at the ultimate destination. The Supplier shall take over the replaced parts/goods at the time of their replacement. No claim
	whatsoever shall lie on the Purchaser for the replaced parts/goods thereafter. The period for
	correction of defects in the warranty period is 02 days. If the supplier having been notified fails to
	remedy the defects within 02 days, the purchaser may proceed to take such remedial action as may
	be necessary, at the supplier's risk and expenses and without prejudice to any other rights, which
	the purchaser may have against the supplier under the contract. (iii) The warranty period should be clearly mentioned. The maintenance charges (AMC) under
	different schemes after the expiry of the warranty should also be mentioned. The comprehensive
	warranty will commence from the date of the satisfactory installation/commissioning of the
	equipment against the defect of any manufacturing, workmanship and poor quality of the
	components.
	(iv) After the warranty period is over, Annual Maintenance Contract (AMC)/Comprehensive
	Maintenance Contract (CMC) up to next two years should be started. The AMC/CMC charges
	will not be included in computing the total cost of the equipment.
27.	Governing Language
	The contract shall be written in English language. English language version of the Contract shall govern
	its interpretation. All correspondence and other documents pertaining to the Contract, which are
	exchanged by the parties, shall be written in the same language.
28.	Applicable Law
	The Contract shall be interpreted in accordance with the laws of the Union of India and all disputes shall
	be subject to place of jurisdiction.
29.	Notices
	• Any notice given by one party to the other pursuant to this contract/order shall be sent to the other
	party in writing or by cable, telex, FAX or e mail and confirmed in writing to the other party's
	address.
	A notice shall be effective when delivered or on the notice's effective date, whichever is later.
30.	Taxes
	Suppliers shall be entirely responsible for all taxes, duties, license fees, octroi, road permits, etc.,
	incurred until delivery of the contracted Goods to the Purchaser. However, VAT in respect of the
21	transaction between the Purchaser and the Supplier shall be payable extra, if so stipulated in the order.
31.	Duties III Delhi is avanutad from paving avatam duty under natification No 51/06 (nartially or full) and
	IIT Delhi is exempted from paying custom duty under notification No.51/96 (partially or full) and
	necessary "Custom Duty Exemption Certificate" can be issued after providing following information and Custom Duty Exemption Certificate will be issued to the shipment in the name of the Institute, (no
	certificate will be issued to third party): The procured product should be used for teaching, scientific
	and research work only.
	a) Shipping details i.e. Master Airway Bill No. and House Airway No. (if exists)
	b) Forwarder details i.e. Name, Contact No., etc.
	IIT Delhi is exempted from paying Excise Duty and necessary Excise Duty Exemption Certificate will
	be provided for which following information are required.
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	b) Quotation with details of Basic Price, Rate, Tax & Amount on which ED is applicable
	c) Supply Order Copy
	d) Proforma-Invoice Copy.
32.	Agency Commission: Agency commission if any will be paid to the Indian agent in Rupees on receipt of the equipment and after satisfactory installation. Agency Commission will not be paid in foreign currency under any circumstances. The details should be explicitly shown in Tender even in case of Nil commission. The tenderer should indicate the percentage of agency commission to be paid to the Indian agent.
33.	Payment:
	 (i) For imported items Payment will be made through irrevocable Letter of Credit (LC) Cash Against Documents (CAD)/Against delivery/after satisfactory installation by T.T. Letter of Credit (LC) will be established in favour of foreign Supplier after the submission of performance security. The letter of credit (LC) will be established on the exchange rates as applicable on the date of establishment. For Imports, LC will be opened for 100% FOB/CIF value. 80% of the LC amount shall be released on presentation of complete and clear shipping documents and 20% of the LC amount shall be released after the installation and demonstration of the equipment at the INST site of installation in faultless working condition for period of 60 days from the date of the satisfactory installation and subject to the production of unconditional performance bank guarantee as specified in Clause 8 of tender terms and conditions. (ii) For Indigenous supplies, 100% payment shall be made by the Purchaser against delivery, inspection, successful installation, commissioning and acceptance of the equipment at IITD in good condition and to the entire satisfaction of the Purchaser and on production of unconditional performance bank guarantee as specified in Clause 9 of tender terms and conditions. (iii) Indian Agency commission (IAC), if any shall be paid after satisfactory installation & commissioning of the goods at the destination at the exchange rate prevailing on the date of negotiation of LC documents, subject to DGS&D registration for restricted items. (iv) All the bank charges within India will be borne by the Institute and outside India will be borne by the Supplier.
34.	User list: Brochure detailing technical specifications and performance, list of industrial and educational establishments where the items enquired have been supplied must be provided. (Ref.
2.5	Annexure-III)
35.	 (i) Before the goods and equipment are taken over by the Purchaser, the Supplier shall supply operation and maintenance manuals. These shall be in such details as will enable the Purchaser to operate, maintain, adjust and repair all parts of the works as stated in the specifications. (ii) The Manuals shall be in the ruling language (English) in such form and numbers as stated in the contract. (iii) Unless and otherwise agreed, the goods equipment shall not be considered to be completed for the purposes of taking over until such manuals and drawing have been supplied to the Purchaser.
36.	Application Specialist : The Tenderer should mention in the Techno-Commercial bid the availability
	and names of Application Specialist and Service Engineers in the nearest regional office. (Ref. to
	Annexure-III)
37.	Site Preparation: The supplier shall inform to the Institute about the site preparation, if any, needed for the installation of equipment, immediately after the receipt of the purchase order. The supplier must provide complete details regarding space and all the other infrastructural requirements needed for the equipment, which the Institute should arrange before the arrival of the equipment to ensure its timely installation and smooth operation thereafter. The supplier shall visit the Institute and see the site where the equipment is to be installed and may offer his advice and render assistance to the Institute in the preparation of the site and other preinstallation requirements.
38.	Spare Parts
	<u> </u>

The Supplier may be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier: ii. Such spare parts as the Purchaser may elect to purchase from the Supplier, providing that this election shall not relieve the Supplier of any warranty obligations under the Contract; and iii. In the event of termination of production of the spare parts: iv. Advance notification to the Purchaser of the pending termination, in sufficient time to permit the Purchaser to procure needed requirements; and v. Following such termination, furnishing at no cost to the Purchaser, the blueprints, drawings and specifications of the spare parts, if requested. Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spares for the Goods, such as gaskets, plugs, washers, belts etc. Other spare parts and components shall be supplied as promptly as possible but in any case within six months of placement of order. 39. **Defective Equipment**: If any of the equipment supplied by the Tenderer is found to be substandard, refurbished, un-merchantable or not in accordance with the description/specification or otherwise faulty, the committee will have the right to reject the equipment or its part. The prices of such equipment shall be refunded by the Tenderer with 18% interest if such payments for such equipment have already been made. All damaged or unapproved goods shall be returned at suppliers cost and risk and the incidental expenses incurred thereon shall be recovered from the supplier. Defective part in equipment, if found before installation and/or during warranty period, shall be replaced within 45 days on receipt of the intimation from this office at the cost and risk of supplier including all other charges. In case supplier fails to replace above item as per above terms & conditions, IIT Delhi may consider "Banning" the supplier. 40. **Termination for Default** The Purchaser may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the Supplier, terminate the Contract in whole or part: i. If the Supplier fails to deliver any or all of the Goods within the period(s) specified in the order, or within any extension thereof granted by the Purchaser; or ii If the Supplier fails to perform any other obligation(s) under the Contract. iii If the Supplier, in the judgment of the Purchaser has engaged in corrupt or fraudulent practices in competing for or in executing the Contract. For the purpose of this Clause: "Corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution. ii. "Fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Borrower, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Borrower of the benefits of free and open competition;" In the event the Purchaser terminates the Contract in whole or in part, the Purchaser may procure, upon such terms and in such manner, as it deems appropriate, Goods or Services similar to those undelivered, and the Supplier shall be liable to the Purchaser for any excess costs for such similar Goods or Services. However, the Supplier shall continue the performance of the Contract to the extent not terminated. 41. Shifting: After 1-2 years once our new Academic Block will be ready, the supplier has to shift and reinstall the instrument free of cost (if required). 42. **Downtime:** During the warranty period not more than 5% downtime will be permissible. For every day exceeding permissible downtime, penalty of 1/365 of the 5% FOB value will be imposed. Downtime will be counted from the date and time of the filing of complaint with in the business hours.

43.	Training of Personnel: The supplier shall be required to undertake to provide the technical training
	to the personnel involved in the use of the equipment at the Institute premises, immediately after
	completing the installation of the equipment for a minimum period of one week at the supplier's cost.
44.	Disputes and Jurisdiction : Any legal disputes arising out of any breach of contract pertaining to this
	tender shall be settled in the court of competent jurisdiction located within New Delhi.
45.	Compliancy certificate : This certificate must be provided indicating conformity to the technical
	specifications. (Annexure-I)

COMPLIANCE SHEET

TECHNICAL SPECIFICATION

Sl. No.	. No. Technical Specifications		
		Y/N	
1	 250 KN UTM shall be Floor Model double column load frame with ball screws having anti backlash screw design. Frame Axial Stiffness 630 kN/mm or better Minimum crosshead travel 2260 mm or better Available test space, width wise 630 mm or more Position control resolution 0.00019 μm or better Position repetition accuracy ±2 microns or better Crosshead traverse speed 0.00005 mm to 600 mm/min. (stepless adjustable) with full load at full speed and vice versa. High return speed: 1000mm/min or better Accuracy of set speed ±0.05% of set speed or better Remote control with display - one-handed operation - can be used as remote control or operating panel - fast, high-precision positioning - pre-assigned functions Start, Stop, Approach Start Position, plus Open and Close Specimen Grips freely programmable keys 3.2" graphic display showing measurement channels, machine and test status and keyboard allocations Controller should have - Expansion of electronics to 6 slots (5 module bus + 1 PCIe) 		
2	 Load Cell ♣ 250 KN (Calibration range 500 N to 250 kN) with accuracy class1 as per IS:1969, IS:7071 (Pt. 4), DIN EN ISO 7500 standards) ♣ 20 KN (Calibration range 80 N to 20 kN) with accuracy class1 as per IS:1969, IS:7071 (Pt. 4), DIN EN ISO 7500 standards) ♣ 50 N (Calibration range 0.2 N to 50 N) with accuracy class1 as per IS:1969, IS:7071 (Pt. 4), DIN EN ISO 7500 standards) 		
	 Accuracy of load cells Both 0.5% & 1% as per IS:1969, DIN EN ISO 7500-1 (DIN 51220, DIN 51302), ISO R147, ASTM E4, BS 1610 Grade A, NF A 03-501 standards Calibration Certificate of Load Cell Dual calibration certificate of Load Cell as per Accuracy Grade 0.5 and class 1. The calibration of load cell should be as per following ISO 7500-1 guidelines. Breaking Force of Load Cell 300% of the Max. Load capacity of the load cell. 		

3	Digital Servo Drive System
	 Maintenance free brushless three-phase AC drive system and low friction ball screws with digitally controlled drive system. The drive should be capable for running the machine for full speed at full capacity of the machine and vice versa. CE conformity
	❖ Proper certificate should be provided by manufacturer mentioning the compliance according to machine guidelines 2006/42/EG
4	Digital Controller
	 Latest controller to accept various information from transducer like force, extensometer and displacement and scope of additional slots for future expansion controller should give pop up message if calibration is due High speed real time synchronization of process data at all the channels, Monitoring of safety and errors and reporting to the monitor, Highest measurement resolution. Highest transfer rate of all the measured data to the host PC for accurate results. The transfer rate of all the measure data at 500 Hz or higher to the host PC for highly accurate results. Controller should not be just below the cross head to void any damage due to fall of oil, water etc.
5	 250 KN Hydraulic Grips required for composites and high strength materials 250 KN Hydraulic Wedge Grips for Fiber- Reinforced Composites, Hard and reinforced plastics, Ferrous and Non Ferrous Metals, Structural Sheet Metals, metal-ceramic composites, composites and other materials. Automatic force zero control when specimen grips close - Automatic re-tightening to pre-set pressure during test should be possible Optional control of grip closing-speed via software should be possible for sensitive specimens Option for control of grip closing-rate via test software (flow-rate limitation) Hydraulic power-pack for hydraulic Grips Flat samples up to 40 mm Round samples up to 22 mm dia.
6	Pneumatic grips type for Fabrics, F max 20 kN, with high gripping force, extremely high gripping force of 50 kN

	❖ Jaw inserts, steel corrugated - Height x Width = 50 x 60 mm ❖ Jaw inserts, steel corrugated - Height x Width = 50 x 60 mm	
	❖ Jaw inserts, Vulkollan smooth - Height x Width = 50 x 60 mm ❖ Proposition and the side side in this case of four time. Control side for the side of the side o	
	• Pneumatic control unit with inching-mode function - Control via foot-	
	operated switch - Closing pressure manually adjustable from 3 - 10 bar	
	❖ 20 kN Pneumatic Grips can be mounted directly on 250 kN Hydraulic	
	Wedge Grips without removing 250 kN Hydraulic Grips	
7	Spring loaded Grip 50N for fibres/textile yarns	
	F max 50 N for fibers/yarns testing. Opening and closing and gripping	
	via eccentric lever	
	❖ Grip should have option of center stop for specimen	
	❖ Jaw inserts, Vukollan, smooth	
	❖ 50 N Grips can be mounted directly on 250 kN Hydraulic Wedge	
	Grips without removing 250 kN Hydraulic Grips	
8	Compression Kit:	
o o	Compression IXI	
	❖ One pair of 400 mm X 400 mm rectangular compression platens Fmax	
	250 kN. This can be directly mounted on 250 kN Hydraulic Wedge	
	Grips without removing 250 kN Hydraulic Grips	
	Onps without removing 250 kW frydraunc Onps	
0		
9	H CC IZIT E 20 I-N A CTM D 2244 ICO 14120	
	ILSS KIT Fmax :20 kN , as per ASTM D 2344, ISO 14130	
	❖ Interlaminar shear strength fixture with integrated manual spindle	
	adjustment, ILSS - According to ASTM D2344 M, EN 2377, EN	
	2563	
	❖ Centering stop for ILSS - In order to center the specimen on the span	
	❖ Adjustable distance gauge - Adjustable range from 8 20 mm	
	❖ 20 kN ILSS Kit can be mounted directly on 250 kN Hydraulic Wedge	
	Grips without removing 250 kN Hydraulic Grips	
10	3 point & 4 point bending kit for composites ,Fmax 10kN	
	❖ 3- and 4-point flexure kit for composites - According to ISO 14125,	
	EN 2562 und ASTM D 7264 - Fmax 10 kN – Span	
	❖ Flexure fin round, radius 5 mm - Fmax 10 kN	
	Upper anvil R5 - According to ISO 14125 and EN 2562	
	 Centering stop for composite flexure test kit - According to ISO 	
	14125, EN 2562 and ASTM D 7264	
	❖ Fmax 10 kN 3 & 4 point bending kit for composites can be mounted	
	directly on 250 kN Hydraulic Wedge Grips without removing 250 k	
	❖ N Hydraulic Grips.	
11.	Video Extensometer for longitudinal and Transverse strain	
	measurement measurement	
	Non-contact type video Extensometer. It should be mounted on the	
	load frame with rigid holding. Tri-pod system will not be acceptable.	
	10au traine with right holding. 111-pou system with not be acceptable.	

	It should also have the video capturing facility during the test. Includes test software and video extensometer software It should capable of measuring Lateral and longitudinal Strain and poison ratio. Graphics card for two monitors - Extension cards for controller and Ethernet for controller - 23" TFT display. Also include measurement marks for gauge length marking. Automatic measurement mark detection .Recording of initial gage length Le - Accuracy grade 1 (at field of view < 200 mm) to EN ISO 9513 (steel) and ISO 527 (plastics) - Resolution down to 0,25 μm (depending on field of view) - E-Modulus determination in tensile tests to DIN EN 10002-1 The software package includes following software options: width measurement, Test Re-Run incl. strain distribution, 2D dot-matrix. Incident light LED for video extensometer - 500mm LED, illumination - Including optical filter for lenses Optical filter for video extensometer - For additional lenses in conjunction with LED light Second measurement axis for poisons ratio / transverse strain measurement Accuracy Class 1% according to EN ISO 9513 or better Accuracy Class 1% according to EN ISO 9513 or better 2 Objective lens: 8 mm Focal length with Field of View of 400 mm and Resolution of ±2 μm or better 35 mm Focal length with Field of View of 80 mm and Resolution of ±0.4 μm or better	
12	A suitable latest window based software for testing with suitable Computer system of reputed make Like Dell/HP Preparation of test (e.g. tensile tests, Compression tests, Cycling tests, relaxation tests, as per all the international standards etc.). IIT Delhi can also modify test program as per their own test requirement without following any particular standard. User administration facility. Software should have the capability of synchronized video recording. Full statistical analysis of data and documentation including the following: Full statistical analysis, Load-Elongation plot, Stress-Strain plot, Value of work of rupture, Initial modulus, yield strain, upper/lower yield stress, proof stress, etc. Results of 'n' No. of specimens and produce a resultant single average plot out of those 'n' No. of Load-Elongation & Stress-Strain plot apart from their individual plot. Load values at 10 to 15 different user defined elongation value.	

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	 Elongation values at 10 to 15 different user defined load value. Values of load parameters in user opted unit (kgf, N etc.) User defined report generation format, Facility to store & export results in various format like word, excel, ASCII & PDF Software with teaching modules for students will be preferred
13	Computer System A suitable Computer system of reputed make Like Dell/HP should be provided, compatible with the requirement of above mentioned system.
14	 Proof of Excellence: 3. Vendor will arrange demonstration of the system within India upon request from the purchaser. 4. The supplier should have installed same model in any of the IITs/NITs and any other centrally funded institute, also please attach performance certificate from user for reference.

I have also enclosed all relevant documents in support of my claims, (as above) in the following pages.

	Signature of Bidder
Name:	
Designation:	
Organization Name:	
Contact No.:	

<< Organization Letter Head >> DECLARATION SHEET

We,	hereby certify that all the information and data furnished by
our organization with regard to this tender specifi	fication are true and complete to the best of our knowledge. I have
gone through the specification, conditions and sti	pulations in details and agree to comply with the requirements and
intent of specification.	
This is certified that our organization has been au	thorized (Copy attached) by the OEM to participate in Tender. We
_	e conditions of eligibility criteria laid down in this tender document.
Moreover, OEM has agreed to support on regular	basis with technology / product updates and extend support for the
warranty.	
The prices quoted in the financial bids are subsid	ized due to academic discount given to IIT Delhi.
We, further specifically certify that our	NAME & ADDRESS OF
organization has not been Black Listed/De Listed	THE Vendor/ Manufacturer / Agent
or put to any Holiday by any Institutional Agency/ Govt. Department/ Public Sector	
Undertaking in the last three years.	
1 Phone	
2 Fax	
3 E-mail	
4 Contact Person Name	
5 Mobile Number	
6 TIN Number	
7 PAN Number	
(In case of on-line payment of Tender Fees)	
8 UTR No. (For Tender Fee)	
(In case of on-line payment of EMD)	
9 UTR No. (For EMD)	
10 Kindly provide bank details of the	
bidder in the following format:	
a) Name of the Bank	
b) Account Number	
c) Kindly attach scanned copy of one	
Cheque book page to enable us to return	
the EMD to unsuccessful bidder	

(Signature of the Tenderer)

Name:

Seal of the Company

List of Govt. Organization/Deptt.

List of Government Organizations for years (must be supported with work ord	whom the Bidder has undertaken such wo lers)	rk during last thre
Name of the organization	Name of Contact Person	Contact No.
Name of application specialist / Service support the quoted product during the v	e Engineer who have the technical compet warranty period.	ency to nangle and
Name of the organization	Name of Contact Person	Contact No.
		Signature of Bidde
	Name:	
	Designation:	
	Organization Name:	
	Contact No.:	

Bid Submission

Online Bid Submission:

The Online bids (complete in all respect) must be uploaded online in two Envelops as explained below:-

Sl. No.	Documents	Content	File Types				
1.	Technical Bid	Compliance Sheet as per Annexure - I	.PDF				
2.		Organization Declaration Sheet as per Annexure - II	.PDF				
3.		List of organizations/ clients where the same products have been supplied (in last two years) along with their contact number(s). (Annexure-III)	.PDF				
4.		Technical supporting documents in support of all claims made at Annexure-I (Annexure-IV)	.PDF				
Envelope – 2							
Sl. No.	TYPES	Content					
1.	Financial Bid	Price bid should be submitted in PDF format.	.PDF				

<Department/Centre Name> Indian Institute of Technology Delhi Hauz Khas, New Delhi-110016

Date: XX/XX/XXXX

Subject: Purchase of <Item> (Following format is used for imported items)

S.	Currency	Description and Specification of	Qty.	Unit	Agency	Discount	Ex-works	Packing +	FOB/FCA	Insurance	CIF Price
No.		the Item	in	Price	Commission		price	Handling	Airport	+ Freight	(f+g)
			Units		(If		(d=a+b-c)	+ DOC +	Price	(g)	
				(a)	applicable)	(c)		Inland	(f=d+e)		
					(b)			Freight +			
								FCA			
								Charges			
								(e)			
1											

Note: At any circumstances, it is the responsibility of the foreign supplier to hand over the material to our forwarder at the origin airport after completing all the inland clearing. No Ex-works consignment will be entertained.

For indigenous items please quote as per following format.

S.	Description and Specification of the	Qty. in Units	Unit Price in	GST%	Total Price in Rs.
No.	Item		Rs.		
1.					
2.					

Note: The above financial template should be strictly followed. Any deviation from the above template (in terms of description and specification of the item) may lead to cancellation of the tender.