

INVITATION FOR TENDER FOR SUPPLY OF EQUIPMENT

Sealed tender offers are invited in two separate sealed covers (Technical and Commercial offers) from eligible manufacturers/suppliers or their direct Indian agents for the supply of the following equipment.

50 kN Universal Testing Machine with Hot Chamber and Low-cycle Fatigue Facility

Please send offers, ALONG WITH DESCRIPTIVE CATALOGUE/ BROCHURE. The validity of the bid should be at least four months (120 days) or more from the date of the opening of this tender. Please ensure that your quotation reaches not later than ~~02/04/2018 (Monday) by 15:00 Hrs~~ **26/04/2018 (Thursday) by 15:00 Hrs (extended date)** at the following address:

**Professor-in-Charge,
DHI Centre of Excellence on Advanced Manufacturing Technology,
(Inside Steel Technology Centre),
Indian Institute of Technology Kharagpur, 721 302,
West Bengal, India**

Earnest money of **Rs. 1,60,000/-** is to be deposited in the form of Account payee Demand Draft in favour of IIT Kharagpur, payable at Kharagpur, India. Any bid which is not accompanied with an EMD shall be summarily rejected. Earnest money deposited will be forfeited if the tenderer withdraws or amends its tender or impairs or derogates from the tender in any respect within the period of validity of its tender. No interest will be paid on the earnest money of the unsuccessful bidders.

Tender Reference	IIT/SRIC/CoE_AMT/DHI/2018/EQ3, Dated: 08.03.2018
Tender Fee	Rs. 7,000/-
Last Date and Time for submitting the tender document	02.04.2018 at 15:00 Hrs (Indian time) Extended to 26.04.2018 at 15:00 Hrs (Indian time)
Time and Date of Opening of Technical Bids	02.04.2018 at 16:00 Hrs (Indian time) Extended to 26.04.2018 at 16:00 Hrs (Indian time)
Place of Opening Tender	Office of Professor-in-Charge, DHI Centre of Excellence on Advanced Manufacturing Technology, (<i>Inside Steel Technology Centre</i>), Indian Institute of Technology Kharagpur, 721 302, West Bengal, India
Address of Communication	As stated above
Contact Telephone Numbers	+91- 3222 - 281576
E-mail	coeamt@gmail.com

DETAILED TECHNICAL SPECIFICATIONS FOR

50 kN Universal Testing Machine with Hot Chamber and Low-cycle Fatigue Facility with specification similar or better than as given below

Description of the Item

Supply, Installation, Commissioning and Demonstration at user's laboratory and user training of Low cycle/Creep Fatigue, High Temperature and Tensile, Compression, Bend/Flexural testing machine as per the detailed specifications given below. Materials like *ferrous and non-ferrous metals and thermoplastic* to be used.

The system shall be capable of conducting following test:

- 1) Tensile, Compression, Creep, Bend/Flexural under strain, load and stroke control
- 2) High Temperature Tensile Test at 1000 °C on specimen
- 3) Low Cycle/Creep Fatigue tests under strain, load and stroke control modes
- 4) Tests with stress ratio (R) between +1 to -1 i.e., it should be possible to perform a completely reversible fatigue test with the actuator crossing zero (R= -1), alternating mean stress (R= -1 to 0) and cyclic tension (R = 0 to +1).
- 5) Tests at triangular, trapezoidal and any other complex wave forms under strain or load control defined by the user
- 6) Operational between mechanical total axial strain amplitudes of ± 0.1 to $\pm 2.0\%$. It must be possible to conduct creep-fatigue interaction tests by imposing dwell periods from 1 min. to 24 hours.

Technical specifications

Sl. No.	Component description	Requirements
A. Load Frame		
1.	Testing load capacity	50 kN
2.	Stiffness of load frame	450 kN/mm
3.	Load application	Servomotor driven
4.	Load accuracy	Class 1, 0.5% of the nominal value or better during the entire test
5.	Maximum Stroke	200 mm or more
6.	Alignment adjustment	Adjustment and monitoring should be provided by alignment fixture and software.
7.	Cross head speed	0.001 mm/hr. to 200 mm/min. Speed accuracy: +/- 0.1% of set speed or better.
8.	Cycling frequency	Max. 2 Hz based on amplitude
9.	Load frame columns	Hard chromium plated 4 column design for increased lateral stiffness and a central spindle
10.	Dimensions and features of crossheads of UTM	Width: range of 700-800 mm Depth: range of 500-600 mm

		Height: range of 1200-1500 mm
11.	Power requirements	230 VAC, 1KVA
B. Load Cell (Accuracy as per ASTM E4 and ISO 7500-1)		<ul style="list-style-type: none"> • Calibrated class 1 load cell for measuring load in tension or compression on the specimen up to 50 kN. • Calibrated class 1 load cell (along with its necessary adapters for fixing to the machine) for measuring load in tension or compression up to 5 kN. • Calibrated class 1 load cell (along with its necessary adapters for fixing to the machine) for measuring load in tension or compression up to 500 N.
C. High Temperature Pull Rods and Machine Adaptors		
1.	Usages temperature	High temperature pull rods, suitable for prolonged use up to temperature of 1000°C
2	Pull rods	<ul style="list-style-type: none"> • capacity - 50 kN at 1000°C • pull rods should be sufficiently long to accommodate the furnace during high temperature tests and suitable to fix the M20, M16, M10, M9 and M8 thread type & flat PIN type test specimens
3.	Load train	Self-aligning (for high temperature tensile) with necessary fixture.
4.	Material	Both pull rods and/or adaptors shall be Inconel 718 or equivalent, for high temperature applications in suitably heat treated condition. The material details should be clearly indicated in the offer.
5.	Adaptors for high temperature tensile tests	<p>To be provided to fix the M8, M10, M16, and M20 thread type test specimen.</p> <p>To be provided for flat specimen upto 6 mm thickness</p> <p>Optional: for flat specimen from 6-12 mm thickness</p>
D. High Temperature Clevis Adapter		
1. The clevis grip shall be suitable for Compact Tension (CT) specimens, suitable up to 50 kN as per ASTM E 1457-13. The clevis grips shall be suitable for CT specifications		

of:

(1) W=50 mm, B= 25 mm (slot 28 mm, pin dia 12.5 mm), suitable to 50 kN load

(2) W=25 mm, B=6.5 mm (slot 12 mm, pin dia 6 mm), suitable up to 30 kN load

2. Contacting HT-COD gauge

E. Furnace and Furnace Temperature Controller

1.	Three zone furnace	Three zone automatic temperature controlling furnace, for prolonged use up to temperature of 1000°C
2.	Extensometer attachment	Furnace must have provision to attach both Non-contact Video/Laser & contact Extensometer.
3.	Furnace type	Swivel arrangement of furnace must be there when it is not in use.
4.	Type of heating	Resistance heating
5.	Temperature control	The specimen temperature shall be uniform, and controlled to within $\pm 2^{\circ}\text{C}$ of the set temperature, or better, during entire test period typically up to 10,000 hours.
6.	Dimension	Minimum height of each zone: 100 mm, and minimum inner dia :125 mm.
7.	Furnace position	The furnace shell shall be positioned (offset) such as the CT specimen width (W = 50 mm) will be aligned with the center of the furnace.
8.	Furnace controller	Suitable microprocessor based temperature controller shall be provided and integrated to machine controller software such that set temperature, allowable deviation, heating rate, cooling rate, etc. can be controlled suitably, at various phases of the test, through the software.
9.	Uniform heating zone	The furnace shall have large enough heating zone to accommodate standard CT specimen (As per ASTM E 1457-13). Standard Test Method for Measurement of Creep Crack Growth Times in Metals.
10.	Split type furnace	Furnace with stainless steel shell, suitable ports for video and clip on Extensometers, COD, FLD, leads for DCPD and three thermocouples fixed to the specimen.
11.	Thermocouples	Specimen 3 nos. (top, middle, bottom). Furnace: 3 nos. (3 zones).
12.	Display	Temperatures of 3 furnace zones and specimen's

		top, middle and bottom. The <i>furnace controller shall display</i> individual zone power (current), set temperature and specimen's temperature.
13.	Safety	Over-temperature trip, other malfunctioning compromising equipment's safety.
F. Control and Data Acquisition Units:		
Machine should be equipped with a work station with the requisite hardware to control the machine and Low cycle/Creep Fatigue, High Temperature & Tensile, Compression, Bend/Flexural software for setting up and conducting the test, data acquisition and analysis.		
1.	Control modes	To operate the machine in Load, stroke and strain (displacement) modes.
2.	Record and display	Displacement measured against Time. Data exporting / backing up at preset time intervals during the test.
3.	Storage	Raw data in ASCII format, for later retrieval of test data
4.	Channels	4or more input channelsfor temperature, crack length and displacement, 2 input channels for synchronous sampling of any other parameters, input ± 10 Volts full scale.
5.	Sampling rate	To define the sampling rate as intervals in time, strain and/or load. Provision should exist to change the sampling interval during the test.
6.	User-defined tests	The software should permit manual setting up of tests with graphical/script mode programming to carry out user-defined tests with combination of functions like ramp, hold and cycle segments. The parameters of these functions should be definable by the user.
G. Fixtures & Accessories		
The quotation shall include the rates of following items:		
1.	Tensile Grips	Body over-wedge type, F_{max} 50 kN, specimen thickness 0-22 mm & width 60mm, jaw inserts for metals Body over-wedge type, F_{max} 5 kN, specimen thickness 0-15 mm & width 25 mm, jaw inserts for metals Plastics & Elastomers

		Body over-wedge type, F_{max} 500 N, specimen thickness 0-10 mm & width 20 mm, jaw inserts for thin sheets.
2.	Compression test kit:	Dia> 100mm, load at least 50kN
3.	3-point Bending/Flexural tests kit:	Length: 420 mm, support separation: 2- 400 mm, support & die radius: 12.5 mm
4.	Non-contacting Optical Video extensometer	<p>Hybrid type:The extensometer should be satisfied with Class 0.5 according EN ISO 9513.</p> <ul style="list-style-type: none"> • Resolution: Laser: 0.12 μm (dependent on field of view) or better • Video: 0.25 μm (dependent on field of view) or better • Measurement range 34 mm or more • Gauge length: 1.5 mm ~ 30mm • Max. tracking speed: 80 mm/min or more • Gauge length can be adjusted by PC software • HT-tunnel for minimizing of environment influence. • Laser safety class 2M (Laser unfocused no safety requirements necessary) • The lens system should have a telecentric property to compensate for lateral movements of the specimen. • The strain measurement system should be controlled by image correlation, calculation of speckle pattern correlation and communication with machine operation software. • Bracket and swivel unit shall be provided to keep in distance when NOT in use
5.	High Temperature Strain Gauge Extensometer	<p>External-supporting, high temperature (up to 1000 $^{\circ}\text{C}$) extensometers with ceramic feeler arms with following specifications:</p> <ul style="list-style-type: none"> • Gauge Length :25mm, Full range: +20%/-10%, Resolution: 0.00001mm, • Compliant with ASTM E83 class B1 and ISO 9513, class 0.5 requirements for accuracy

		<ul style="list-style-type: none"> • Contact force: adjustable up to 400gm • Frequency: 2 Hz. Max. • Operating temperature: 1000 °C max • Contacting HT-extensometer for CF/LCF tests
6.	Alignment Unit	For adjustment of eccentric and angular misalignment of the loading axis. Must for HT fatigue test
7.	Computer and Colour duplex printer	<ul style="list-style-type: none"> • Processor: Intel Core i7, Memory: 8 GB RAM • Operating System: Windows 10 • HDD: 1 TB • DVD drive • Monitor: 17" digital LED Monitor • USB Standard Keyboard, USB Optical Mouse • Latest laser jet colour duplex printer (for both side printing).
8.	Software	<ul style="list-style-type: none"> • A user-friendly software for controlling the machine and conducting all kind of static tensile, compression, bend, low cycle fatigue and creep-fatigue interaction tests shall be supplied. • The package shall include suitable tools for machine control, data acquisition, report generation and facility for dynamic exchange of data to Microsoft excel. • The programme shall be compatible with Windows 10 or the latest operating systems. • The software shall be a Microsoft Windows based package for LCF and creep-fatigue testing of uniaxially loaded metallic materials, in accordance with the ASTM E- 606 standard. • Waveforms generally employed are constant amplitude sine, triangular and trapezoidal. • There shall be an option to generate any other user-defined wave form. • Hold time experiments shall be possible with hold inpeak tension and/or compression strain. • Provision shall exist for termination of a test upon specimen breakage or fall in the peak tensile stress below a value that can be pre-defined or specified during the progress of a test.

		<ul style="list-style-type: none"> • There shall be provision for saving the test formats and user-defined test screens in a test configuration file for future use. • A test summary report providing a table of cyclic data for all the recorded loops and the cycles to failure, N_f, shall be incorporated into the test report. • The software shall be supported by an extensive HTML help with on-line documentation of the various features of the system. • To transfer the graphical display data to ASCII file.
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H. Warranty:

3 years comprehensive (Equipment+ Accessories+ Services) from the date of installation.

I. Inspection, Training, Installation & Commissioning:

1) The quoted cost should include supply, installation and commissioning of the equipment with all accessories at user's site.

2) The supplier should provide the performance document of the following components in PDI (Pre-Dispatch Inspection):

- a. Load cell and its calibration
- b. Furnace and furnace temperature controller
- c. Rod and tube type extensometer and its calibration.
- d. Data acquisition system – The test program should acquire the test parameters like time, load, displacement, crack size, differential voltage etc. during test. Data equipment to the specifications by conducting trial tests.

3) Training: During installation and commissioning, three scientists/ engineers/ scholars from user's laboratory shall be trained in the complete operations of the equipment and the software.

J. Operation and Maintenance

1. 2 nos. of hard copies of Operation and maintenance manual should be supplied in original form comprising the calibration certificates of load cell, gauges, thermocouples, etc. of the respective machine.

2. A complete set of tools normally required for the operation and maintenance of the machines shall be included, specifically, any special spanners/tools etc.

K. Certificates

1. Calibration

Force verification certificate from internationally recognized authorities for the load train and calibration certificate for the displacement measurement systems should be provided.

2. Material

Test Certificates from manufacturers for materials used, specifically for high temperature pull rods, grips, and extensometer fabrication must be supplied.

3. Others

The quotation should accompany

- Packing and protection requirement for transit
- Installation requirements (civil, electrical, air conditioning, etc.)
- Complete set of service manuals in English
- A list of laboratories in India where same/similar models are already in use.

GENERAL TERMS & CONDITIONS

PLEASE SPECIFICALLY INDICATE THE FOLLOWING POINTS IN YOUR QUOTATIONS AND COMPLY THE TERMS AS MENTIONED HEREUNDER:-

1. TENDERS ARE INVITED COMPLYING THE REQUIREMENT FOR TENDER AS DETAILED IN THE TENDER SPECIFICATION TO BE SUBMITTED IN THE COMPANY'S / FIRM'S LETTERHEAD NEATLY PRINTED / TYPED DULY SIGNED BY AUTHORIZED PERSON WITH THE SEAL OF THE BIDDERS. ALL ENVELOPES CONTAINING THE TENDER SHOULD BE PROPERLY SEALED. SEPARATE ENVELOPES SHOULD BE USED FOR TECHNICAL AND PRICE BID AND INDICATION TO THEIR EFFECT MAY PLEASE BE SUPERSCRIBED ON THE ENVELOPE.

THE FOLLOWING DOCUMENTS ARE REQUIRED FROM THE INDIAN AGENTS OF FOREIGN FIRMS:

1.1 FOREIGN PRINCIPAL'S PROFORMA INVOICE INDICATING THE COMMISSION PAYABLE TO THE INDIAN AGENT AND NATURE OF AFTER SALES SERVICE TO BE RENDERED BY THE INDIAN AGENT.

1.2 COPY OF THE AGENCY AGREEMENT WITH THE FOREIGN PRINCIPAL INDICATING THE NATURE OF AFTER SALES SERVICES, PRECISE RELATIONSHIP BETWEEN THEM AND THEIR MUTUAL INTEREST IN THE BUSINESS.

2. TECHNICAL CATALOGUE/LEAFLET SHOULD BE ENCLOSED WITHOUT FAIL. PROVIDE COMPLIANCE STATEMENT WITH RESPECT TO THE TECHNICAL SPECIFICATIONS MENTIONED ABOVE.
3. PLEASE CONFIRM WHETHER YOU ARE AUTHORIZED TO QUOTE ON BEHALF OF YOUR PRINCIPALS AND IF SO, PLEASE ENCLOSE A COPY OF SUCH AUTHORISATION WITH YOUR QUOTATION.
4. **PRICE BIDS FOR FOREIGN FIRMS:** PRICES ARE TO BE QUOTED ON 'EX-WORKS' DULY PACKED OR ON "FCA/FOB" INTERNATIONAL PORT" BASIS AND ALSO INCLUDING AGENCY COMMISSION PAYABLE TO YOUR INDIAN AGENTS, IF ANY SHOWING CLEARLY THE FOLLOWING BREAK UP:-

- I) EX-WORKS PRICE
- II) PACKING & FORWARDING
- III) FREIGHT
- IV) ANY OTHER RELEVANT EXPENSES.
- V) TAXES PAYABLE BY THE INSTITUTE

INSURANCE WILL BE PAID BY OUR INSTITUTE SEPARATELY AND SHOULD NOT FORM PART OF THE QUOTED PRICE.

PRICE BIDS FOR INDIAN FIRMS: PRICES ARE TO BE QUOTED ON F.O.R., IIT KHARAGPUR, ON DOOR DELIVERY BASIS CLEARLY SHOWING THE BREAK UP.

5. **PERIOD OF VALIDITY:** BIDS SHALL REMAIN VALID FOR ACCEPTANCE FOR A PERIOD OF 120 DAYS FROM THE DATE OF OPENING.
6. INDIAN AGENTS ADDRESS AND PERCENTAGE OF AGENCY COMMISSION INCLUDED IN ABOVE F.O.B./EX-WORKS PRICE. (THIS WILL BE PAID TO THE INDIAN AGENTS IN INDIAN RUPEES ONLY AND NOT IN FE). PLEASE ENCLOSE COPY OF AGENCY AGREEMENT ENTERED INTO

WITH YOUR PRINCIPALS INDICATING THE NATURE OF AFTER SALES SERVICES OF INDIAN AGENTS, PRECISE RELATIONSHIP & MUTUAL INTEREST IN THE BUSINESS.

7. **MEASUREMENTS/WEIGHT:** NETT/GROSS OF THE CONSIGNMENT. IN CASE OF AN ORDER, YOU SHALL USE AIR WORTHY PACKAGE (AS APPLICABLE) DULY CERTIFIED WITH DOCUMENTS – PLYTO – SANITARY CERTIFICATE (AS PER QUARANTINE ORDER 2003).
8. **SCOPE OF SUPPLY:** SHOULD INCLUDE FREE INSTALLATION AND COMMISSIONING
9. **PAYMENT TERMS FOR FOREIGN FIRMS**

The offer will be made on a single currency and only one PO will be issued for the entire scope of the supply.

- A) 90% PAYMENT THROUGH SIGHTDRAFT/FOREIGN DEMAND DRAFT/LC (EXCEPTIONAL CASES)/SWIFT TELE TRANSFER AFTER RECEIPT OF STORE IN GOOD ORDER AND CONDITION AND 10% AFTER SUCCESSFUL INSTALLATION & COMMISSIONING.
- B) BANK CHARGES ON LC/SD (WITHIN INDIA APPLICANT ACCOUNT AND OUTSIDE INDIA TO BENEFICIARY ACCOUNT).

PAYMENT TERMS FOR INDIAN FIRMS

A) 100% PAYMENT THROUGH CROSSED ACCOUNT PAYEE CHEQUE / ELECTRONIC TRANSFER AFTER RECEIPT OF STORE IN GOOD ORDER & CONDITION AND SUCCESSFUL INSTALLATION & COMMISSIONING.

B) ENSURE MENTIONING

- i) BANK DETAILS OF THE BENEFICIARY, GST NO. AND PAN NUMBER
- ii) FULL NAME AND ADDRESS OF THE BENEFICIARY ON WHOM ORDER HAS TO BE PLACED

10. WHETHER ANY EXPORT LICENCE IS REQUIRED FROM YOUR GOVERNMENT, IF SO, PLEASE CONFIRM WITH DETAILS.
11. COUNTRY OF ORIGIN OF THE GOODS IS TO BE MENTIONED.
12. THE INSTITUTE SHALL PROVIDE THE CONCESSIONAL CUSTOMS DUTY AND EXCISE DUTY EXEMPTION CERTIFICATE AS PER GOVT. NOTIFICATION NO. 51/96 CUSTOMS DATED: 23.07.1996 AND CENTRAL EXCISE DUTY EXCEMPTION IN TERMS OF GOVT. NOTOFICATION NO. 10/97 – CENTRAL EXCISE DATED: 01.03.1997 AS AMENDED FROM TIME TO TIME.
13. **LIQUIDATED DAMAGES:** THE STORES SHOULD BE DELIVERED / DISPATCHED TO DESTINATION AND READY FOR OPERATION NOT LATER THAN THE DELIVERY DATE SPECIFIED. IT THE SUPPLIER FAILS TO DELIVER ANY OR ALL THE STORES OR PERFORM THE SERVICE BY THE SPECIFIED DATE, LIQUIDATED DAMAGES AT 1% PER MONTH OR PART THEREOF IN RESPECT OF THE VALUE OF STORES WILL BE DEDUCTED FROM THE CONTRACT PRICE SUBJECT TO A MAXIMUM OF 5%. ALTERNATIVELY, THE ORDER WILL BE CANCELLED AND THE UNDELIVERED STORES PURCHASED FROM ELSEWHERE AT THE RISK AND EXPENSE OF SUPPLIER.
14. **PATENT RIGHTS:** THE SUPPLIER SHALL INDEMNIFY THE PURCHASE AGAINST ALL THIRD PARTY CLAIMS OF INFRINGEMENT OF PATENT, TRADEMARK OR INDUSTRIAL DESIGN RIGHTS ARISING FROM USE OF THE GOODS OR ANY PART THEREOF IN INDIA.

15. ONLY THOSE BIDDERS WHO'S BIDS HAVE BEEN TECHNICALLY FOUND ACCEPTABLE WILL ONLY BE INVITED FOR PARTICIPATION IN THE PRICE BID.
16. THOSE BIDDERS WHO DO NOT RECEIVE ANY COMMUNICATION FOR PARTICIPATION IN PRICE BID OPENING MEETING MAY PRESUME THAT THEIR BID HAS NOT BEEN ACCEPTED BY THE INSTITUTE.
17. CONDITIONAL OFFER WILL NOT BE ACCEPTED.
18. LATE TENDERS i.e. TENDER RECEIVED AFTER THE DUE DATE AND TIME OF SUBMISSION AS MENTIONED ABOVE SHALL NOT BE ACCEPTED.
19. BIDDERS TO ENCLOSE THE FOLLOWING DOCUMENTS:-

- A) INCOME TAX RETURN (3 YRS) AND LATEST SALES TAX RETURN (GST No.), AND PAN NO.
- B) BANKER'S SOLVENCY CERTIFICATE
- C) SUMMARY OF AUDITED STATEMENT OF ACCOUNTS FOR THE LAST THREE YEARS TO BE ENCLOSED AND FINANCIAL HIGHLIGHTS AND THE KEY PERFORMANCE DURING THE LAST THREE QUARTERS TO BE ENCLOSED AS PER FORMAT:-

COMPANY'S KEY PERFORMANCE

DESCRIPTION	JAN. TO MARCH	APRIL TO JUNE	JULY TO SEPT.
GROSS REVENUE			
PROFIT BEFORE TAX			
PROFIT AFTER TAX			
RETURN ON INVESTED			
CAPITAL (ROIC)			

- D) CUSTOMER SATISFACTION CERTIFICATE FROM ONE SUCH ORGANIZATION IS TO BE ATTACHED WITH THE TECHNICAL BID AND PRICE BID.
- E) NAME AND ADDRESS OF MINIMUM THREE CLIENTS TO WHOM SUCH EQUIPMENT HAVE BEEN SUPPLIED SHOULD BE MENTIONED.
20. **WARRANTY/ GUARANTEE:** THIS COMPREHENSIVE WARRANTY/ GUARANTEE SHALL REMAIN VALID FOR **36 MONTHS** AFTER THE GOODS (OR ANY PORTION THEREOF AS THE CASE MAY BE) HAVE BEEN DELIVERED AND COMMISSIONED TO THE FINAL DESTINATION.
21. THE INSTITUTE DOES NOT BIND ITSELF TO OFFER ANY EXPLANATION TO THOSE BIDDERS WHO'S TECHNICAL BID HAS NOT BEEN FOUND ACCEPTABLE BY THE EVALUATION COMMITTEE OF THE INSTITUTE.
22. ALL TENDERS (UNLESS OTHERWISE SPECIFIED) ARE TO BE SUBMITTED / HANDED OVER TO

**OFFICE OF PROFESSOR-IN-CHARGE,
DHI CENTRE OF EXCELLENCE ON ADVANCED MANUFACTURING TECHNOLOGY,
(INSIDE STEEL TECHNOLOGY CENTRE),
INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR, 721 302, WEST BENGAL, INDIA**

AND ACKNOWLEDGEMENT TO BE OBTAINED.

IMPORTANT

1. IIT Kharagpur authority may accept or reject any or all the bids in part or in full without assigning any reason and does not bind itself to accept the lowest bid. The Institute at its discretion may change the quantity/ upgrade the criteria/ drop any item or part thereof at any time before placing the Purchase Order.
2. Promptly make arrangements for repair and/ or replacement of any damaged item (s) irrespective of settlement of claim.
3. In case of any dispute, the decision of the Institute authority shall be final and binding on the bidders.
4. For any query pertaining to this bid document correspondence may be addressed to *Professor-In-Charge*, at the address mentioned above.

**LAST DATE FOR SUBMISSION OF SEALED BIDS: ~~02.04.2018 (15:00 HRS IST)~~
EXTENDED TO 26.04.2018 AT 15:00 HRS (IST)**

- 1) Please Note that the Institute remains closed during Saturdays & Sundays and all specified government holidays.
 - 2) Fax, e-mail Tender will not be accepted.
 - 3) The General Terms and Conditions as stated above relate to supply of stores / equipment /assets etc. and for specific service, other terms and conditions of the Institute will apply.
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