

G T Road By Pass, Jalandhar-144008, Punjab (India) EPABX-0181-2690301 & 453 website: <a href="www.nitj.ac.in">www.nitj.ac.in</a> email: <a href="mailto:registrar@nitj.ac.in">registrar@nitj.ac.in</a>

## Ref. e-Tender Notice No. NITJ/PUR/IIC/159/25/ e-tender No- 93/2025

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Deputy Registrar
Dr. B. R Ambedkar NIT Jalandhar Email:
<a href="mailto:drpurchase@nitj.ac.in">drpurchase@nitj.ac.in</a>



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#### THIS DOCUMENT IS FOR REFERENCE ONLY. ONLY E-TENDERS WILL BE

#### ACCEPTED

#### e-Tender Notice No. NITJ/PUR/IIC/159/2025 e-tender No- 93/2025

National Institute of Technology, Jalandhar invites e-tender for **Purchase of Nano Indentation System - 01 nos. for Institute IIC Department** as per detail available at <u>Annexure-I</u> along with Tender Fee & EMD of the Institute as per details given below:

I	Downloading & Submission of Online	Start Date:	05.01.2026 at 03:00 PM
	e-tender/bids		
II	Last date of submission of online bids	End Date:	05.02.2026 upto 03:00 PM
III	Physical submission of Tender Fee and EMD	End Date:	06.02.2026 upto 03:00 PM
IV	Opening of Technical e-Bid (online)	06.	02. 2 0 2 6 at 03:00 PM

Detailed Terms and Conditions are available in e-tender document. The bid document can be downloaded from the CPP Portal.

Complete tender document is available for reference purposes on Institute website <a href="www.nitj.ac.in">www.nitj.ac.in</a> and <a href="www.nitj.ac.in">CPP Portal</a>. Only e-tenders will be accepted.

NOTE: This is a Global Tender. According to the special provisions of MoE in reference to order no. F, No. 3303/2022-TS.III date 07.07.2025, the above item is of scientific category required for research purposes. Hence, the Make in India Guidelines are not applicable to this tender.

Registrar



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**Annexure-I** 

Ref. No. e-Tender Notice No. NITJ/PUR/IIC/159/2025 e-tender No- 93/2025 Detail of Equipment, Tender Fee & EMD are as under:

Sr. no.	Item/Equipment	Qty.	Tender Fee	EMD
1.	Nano Indentation System	01	Rs. 500/-	Rs. 500000/-

Note: The quantity of required equipment/item may vary as per requirement.

<sup>\*</sup>Exemption of Tender fee & EMD will only be given to MSE (Micro and Small Enterprises) / NSIC registered bidders.



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#### **Important Note**

- 1. All corrigenda, addenda, amendments and clarifications regarding this tender document will be uploaded on the website <a href="www.nitj.ac.in">www.nitj.ac.in</a> and CPP Portal and not in the newspaper; Bidders shall keep themselves updated with all such developments.
- 2. In case, the last date of receipt/opening of bids falls on holiday, the bids shall be receipt/opened on the next working day at same time.
- 3. In case, the last date of submission of EMD & Tender fee falls on holiday, the EMD & Tender fee shall be submitted on the next working day at same time.
- 4. Tenderer who have downloaded the tender document form from the institute website, shall submit a declaration along with tender document that I/We have downloaded the Tender Form from the institute website <a href="www.nitj.ac.in">www.nitj.ac.in</a> and I/we have not tempered /modified the tender form in any manner. In case, if the same is found to be tempered/modified in any manner, I/we understand that my/our tender will be summarily rejected and I/we are liable to be banned from doing business with institute.
- 5. Tender fee of Rs.500/- (Non- refundable) in the form of DD in favour of <u>Director, D</u> R B R Ambedkar NIT, Jalandhar.
- 6. EMD (refundable) in the form of DD in favour of Security- A/c, DR B R Ambedkar NIT, Jalandhar.
- 7. Both EMD and Tender fee are be submitted as per dates mentioned in schedule, failing which e-bids will not considered.
- All the bidders are required to submit the Tender Fee and EMD as per requirement of tender document failing which bids received straightway rejected and bid will be treated invalid.
- Note: If the bidder inadvertently or otherwise upload the quoted rates in the technical bid, the bid will be straightway rejected and treated invalid.
- If the bidder is exempted for payment of Tender Fee and EMD as NSIC/MSE (Micro and Small Enterprises) registered bidders, then bidder is required to submit

  NSIC/MSE (Micro and Small Enterprises) exemption certificate for same. The must be valid as on last date of submission of bid.

Tenderer must submit a scanned copy (duly signed and stamped) regarding terms & conditions as per our tender documents along-with make/model, specifications, bill of quantity as per required equipment in the technical bid for examine the bid as per our institute tender documents. It is noted that no rate should be depicted in the letter head.



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### **Instructions to Tenderer**

Tender Can be submitted in both physical and online mode. It is Necessary for the Indian Bidders to
quote online. Offline bids from Indian bidders will not be considered and stand rejected Bidder outside
India cam submit their bids offline in sealed envelope. The both Technical and Financial bid should be
in different sealed envelopes.

**Note:** All the Annexure of the tender document should be filled manual with signature and stamp before submission.

- 2. Bids are to be submitted online and opened online as per time given failing which no tender will be considered.
- 3. Bids will be opened online as per time given schedule.
- 4. Before submission of online bids, bidders must ensure that scanned copies of all the necessary/relevant documents have been uploaded with the bid which should be duly signed and stamped. The duly signed and stamped copies of Terms & Conditions of the tender, reply of the Questionnaire of Plant & Machinery and other documents of the Tender & Annexures must be uploaded, failing which their bids may be rejected.
- 5. NIT JALANDHAR, will not be responsible for any delay in online submission of bids due to any reason whatsoever.
- 6. Bidders should also upload the scanned copies of Tender fees/EMD/Exemption Certificate as specified in the tender documents along with online technical documents. EMD in the form of a Demand Draft in favour of the Security A/c, Dr B R Ambedkar NIT, payable at Jalandhar (refundable separate) and Tender Fee in the form of a Demand Draft in favour of the Director, Dr B R Ambedkar NIT, payable at Jalandhar (Non- refundable separate) should also be submitted in physical form to the following address as per scheduled time given for physical submission of EMD and Tender fee. The Envelope should be super- scribed as EMD and Tender Fee for Tender for Nano Indentation System -01 nos. and sent to following address: -

Kind Attention- Deputy Registrar (Purchase Section) Director, Dr B R

Ambedkar National Institute of Technology,

G T Road Amritsar By Pass, Jalandhar-144008, Punjab (India).

- 7. The details of EMD specified in the tender document should be same as submitted online (scanned copies). Otherwise tender will be rejected summarily.
- 8. The conditional bids shall not be considered and will be out rightly rejected.

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The Financial Bid through e-tendering process shall be opened of only those bidders, who will qualify in the technical bid and approved by the Purchase Committee/Technical Experts. The date, time & place of opening of the financial bid(s) will be intimated in due course of time.

- 10. At any time prior to the deadline for submission of bid, the institute may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective tenderer(s), modify the tender document by issuance of an amendment.
- 11. The amendment will be uploaded on Institute website and CPP Portal only. In order to provide reasonable time to prospective tenderer(s), for preparing their bid as per amendment, the institute may, at its discretion extend the deadline for the submission of tender.
- 12. The supplier must upload the original manuals / catalogue and Make/Model of the Equipment /Item. Otherwise bid is liable to be rejected.
- 13. The Institute is not liable to pay any interest on EMD. Earnest money deposit shall be forfeited, if the tenderer, withdraws its bid during the period of tender validity. The Earnest money deposit of the tenderer, whose tender has been accepted, will be returned on the submission of <a href="mailto:performance-security">performance-security</a> @ 3% of the total value of the offer. The performance security will be kept till the warranty period + 02 months more of the Equipment /Item. The warranty period will start from the date of satisfactory installation of the Equipment /Item duly given by the concerned department. Earnest money deposit of the successful tenderer shall be forfeited, if it refuses or neglects to execute the contract or fails to furnish the required performance security within the time frame as specified by the institute. The EMD(s) of other Bidder(s) whose offer are found according to required specifications/ lowest will be released after finalization of Technical Bids/ Lowest Bid/Purchase.
- 14. The Format of Performance Bank Guarantee bond or Performance Bank Guarantee issued by the bank as per the format given in **Annexure "B" & "C"**.
- 15. Delivery time is the essence of the contract and must be met with.
- 16. Nearest specifications/better specifications can be considered. In case of deviation, complete justification should be furnished with proper documents.
- 17. The Director may accept a tender in part or whole of the quantity offered, reject any tender without assigning any reasons and may not accept the lowest bidder. Further in case of any doubt/dispute, the decision of the Director of the Institute shall be final.
- 18. The offer shall be kept valid for minimum 120 days.

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19. a) Either the agent/ dealer 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.

- b) If an agent/ dealer submits bid on behalf of the Principal/OEM, the same agent /dealer shall not submit a bid on behalf of another Principal/OEM in the same tender for the same item/product.
- c) All offers other than those from the Principal/OEM should be supported by an authority letter from the manufacturer authorizing the dealer /supplier to tender on their behalf as per <u>Annexure-D</u>. In case of manufacturer, a certificate or a copy thereof to the effect that the bidder is a manufacturer of the Equipment /Item must be accompanied with the technical bid.
- 20. The supplier will be responsible till the entire stores contracted for, arrive in good condition at destination.
- 21. The tenderer should not have been debarred and/ or blacklisted by any Central Government/ or any State Government Department(s). This must be supported by an affidavit as per format given in Annexure-"E".
- 22. If any information furnished by the bidder is, at any stage found to be incorrect/false/fabricated, the Institute shall have the absolute right to forfeit the EMD, warranty/performance guarantees or/and security deposits, in addition to cancellation of contract, and in accordance with law, such other actions may be taken like black-listing of the bidder etc.

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**TENDER EVALUATION** 

Institute will evaluate all the proposals to determine whether these are complete in all respects as specified in the tender document. Evaluation of the proposals shall be done in two stages as:

## (a) Stage – I (Technical Evaluation):

(i) Institute shall evaluate the technical bid(s) to determine the following like the bid qualifies the essential eligibility criteria or not, the tenderer has submitted the EMD & Tender fee or not, any computational errors have been made or not, all the documents have been properly filled or otherwise, all the documents have been submitted/ uploaded with technical bid or not, the specifications, Make/Model, Catalogue of quoted Equipment /Item are as per requirement tender specifications or not, Authorization of Dealer / Distributor/ Exclusive Agent certificate from manufacturer is in order or not, Sales & service policy of equipment / item during warranty period and after warranty period will also be seen, location of their authorized service center will also be seen for evaluation etc.

After evaluation of technical bid(s), a list of the qualifying tenderer (s)/ bidder

s) shall be made. Short-listed tenderer(s) will be informed of the date, time and place of opening of financial bid(s) and they may attend or depute their authorized representative/s to attend the schedule of opening of financial bid(s) on the scheduled date and time, if they wish to do so. The representative(s) should have a letter of authority to attend the price bid(s) opening event.

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## PART - II (e-FINANCIAL BID):

a) Bidders should offer the rates as per the format of BOQ as available on CPP Portal. Detailed bill of material/quantity is also to be provided along with the price breakup of each item as per requirement of the tendered specification of the equipment in the online price bid at CPP Portal.



Note: The quoted amount as filled in the Annexure(s) of online financial bid and detailed bill of material/quantity provided with price break up of each

item in the online financial bid should be tallied and both must be same, otherwise bid will be treated invalid.

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#### **ARBITRATION:**

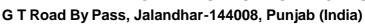
In case of any dispute or difference arising out in connection with the tender conditions/job order/Contract, the Institute and the Seller/Service Provider will address the dispute/difference for a mutual resolution and failing which, the matter shall be referred for arbitration to a sole Arbitrator to be appointed by the Institute.

The Arbitration shall be held in accordance with the provisions of the Arbitration and Conciliation Act, 1996 and the venue of arbitration shall be at Jalandhar only. The decision of the Arbitrator shall be final and binding on both the parties.

#### JURISDICTION:

The courts at Jalandhar alone will have the jurisdiction to trial any matter, dispute or reference between parties arising out of this tender / contract. It is specifically agreed that no court outside and other than Jalandhar Court shall have jurisdiction in the matter.

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## (TERMS AND CONDITIONS (FOR THE SUPPLY OF GOODS, EQUIPMENT /ITEM)

- 1. Rate should be quoted F.O.R NIT Jalandhar and In INR only.
- 2. Where the Equipment / Machinery/ Instrument are composed of several sub units/components, the rate should be quoted for each subunit/component separately. NIT Jalandhar reserves the right to increase or decrease the number of sub units/components and number of Equipment / Machinery/ Instrument according to its requirements.
- 3. GST or any other chargeable duty where applicable must be specifically mentioned, failing which no tax or duty will be allowed at subsequent stage.
- 4. All items shall be indicated both in words as well as in figures. If there is difference between amount quoted in words and figures, amount quoted in words shall prevail.

#### 5. **Payment:**

- (a) 100% payment will be made against physical delivery, inspection, installation, training of the Equipment/Machinery/Instrument etc. in the institute, receipt of satisfactory working report of the Equipment / Machinery/Instrument etc. and receipt of Performance Bank Guarantee @ 3%.
- 6. Warranty: Rates should be quoted with comprehensive warranty. Besides this, policy regarding after sale service on the expiry of warranty period of Equipment / Machinery/Instrument etc. may be explained. The bidders should attach duly signed and stamped certificate of warranty as per Annexure-F with the technical bid.
  - 7. Training: In house training (where applicable) after the installation and commissioning of Equipment / Machinery/Instrument etc. shall be provided by the supplier.
  - **8. Delivery:** Delivery date will be mentioned in the supply order. The time and date of delivery or dispatch stipulated in a supply order shall be deemed to be the essence of the supply order and if the supplier fails to deliver or dispatch any consignment within the period prescribed for such delivery, the delayed consignment will be accepted subject to penalty as laid down in the supply order, which will be recovered from the pending payments.

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- 1. No recovery of penalty will be made, if the delayed supplies are acceptable by extending the delivery period by the Director with our any LD charges.
- 2. Director will allow extension on the request of the supplier by recording in writing that in exceptional circumstances the supply was beyond the control of the supplier and there was no loss to the institute.
- 3. Penalty on account of delay, Director NIT, Jalandhar reserves the right to impose 0.5% (Half) per cent penalty per week on account of delay in supply, if delivery received after expiry of the original delivery period. The total penalty will not exceed 10% of the value of the delayed goods.
- **9. Installation**: Supplier has to install the Equipment / Machinery/ Instrument within two to three weeks from the receipt of the Equipment / Machinery/Instrument etc. in NIT Jalandhar.
- 10. Spares and Accessories, wherever required should be quoted separately and clearly, even if these are not asked for.
- 11. Site Preparation: The supplier shall inform NIT Jalandhar about the site preparation, if any, needed for the installation, immediately after receipt of the supply order. Supplier must provide complete details regarding space and all infrastructural requirements needed for the Equipment / Machinery/Instrument etc which NIT Jalandhar should arrange before the arrival of Equipment / Machinery/Instrument etc to ensure its early installation and smooth operation thereafter. The supplier may offer his advice and render assistance to NIT Jalandhar in the preparation of the site and other pre installation requirements.
- **12.** The total scope of work includes the supply, installation, satisfactory commissioning and testing of the Equipment / Machinery/Instrument etc by the supplier, training at NIT Jalandhar, method development and validation for parameters as mentioned in specifications at **Annexure-A**. The supplier will complete installation & Commissioning of Machine within two to three weeks from the date of receipt of Equipment / Machinery/Instrument etc. of NITJ.
- **13.** Details about the service center for the quoted Equipment / Machinery/Instrument etc. in India may be mentioned.

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# **Acceptance**

Weread	I and accept the instructions to the tenderer
terms & conditions and all other documents as mer strictly.	ntioned in the tender and shall comply with them
Name of Bidder	<u></u>
	Signature
Address	<u> </u>
	Seal of firm:
	_
	– Date:
	Date.



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#### Questionnaires A & B

#### **QUESTIONNAIRE FOR PLANT & MACHINARY**

Note: Please submit the reply in detail and also enclose the necessary documents with proof where required as per Questionnaire. These documents must be submitted in the technical bid document.

Please state that you have submitted your quotations as per procedure mentioned below:-

- Bids consisting of technical details bringing out clearly in a separate sheet ,the deviation in the specifications if any from that of tender enquiry specifications along with commercial terms and tender form.
- 1. Please attach list dully signed by you, for such spare parts and tools which are absolutely essential for proper maintenance and operation of machine for a period of two years giving full particulars of spare and tool with a price of each spare parts and tools separately.
- 2. Please confirm that you have adequate servicing and spare parts facilities in India in respect of Equipment /Item tendered by you or that you should arrange to provide such facilities simultaneously.
- 3. Please indicate that you guaranteed that before going out of production of spare parts, you will give adequate advance notice to the purchaser so that the institute may order his requirements of spares in one lot ,if he so desire.
- 4. Please indicate that you guaranteed that if you go out of production of spare parts, then you will make available prints, drawings of the spare parts and specifications of the material at no cost if and when required in connection with Equipment /Item to enable the purchaser to fabricate or procure spare parts from other sources.
- 5. Please confirm that you undertake to enter into a rate contact with the purchaser to supply spare parts on an agreed basis for an agreed period.
- 6. Status:
  - a) Indicate whether you are ISU or SSI
  - b) Are you registered with Government e-Marketing (GeM) for the item quoted? If so indicate whether there is any monetary limit or registration.
  - c) If you are a small scale unit registered with NSIC under single point registration scheme whether there is monetary limit.
- 7. a) If you are registered either with NSIC or with Government e-Marketing (GeM), please State whether you are registered with Directorate of industries of the state government concerned.
  - b) If so, confirm whether you have attached a copy of the certificate, issued by Director of industries.
- 8. Please indicate:-Name & Full Address of your Banker
- 9. Please indicate whether you agree to submit advance samples if called upon to do so within the specified period of 21 days.



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- 10. Business name and constitution of firm:
  - i) The Indian company Act. 1956
  - ii) Indian partnership Act.1932
  - iii) Any act, if not, who are the owner/partners (please give full name and address)
  - 11. Whether the tendering firm is / are:
    - i) Manufacturers authorized agents
  - ii) Holders stock of the stores tendered for
    - iii) NBI manufacturer's agents please enclose with tender the copy of manufacturer's authorization.
- 12. Please state whether the inspection clause is acceptable to you
- 13. Here state specifically:-

(Signature of Tenderer)

- i) Whether the price quoted by you is to the best of your knowledge and belief is not more than the price usually charged by you on stores of the same natures, class of description to any private purchase either foreign or as well as government purchaser. If not state the reason thereof if any also indicates the margin of Difference.
  - ii) In respect of indigenous items for which there is a controlled price fixed by law, the price quoted shall not be higher than that the controlled price and rates available on DGS&D/Government e-Marketing (GeM) contract. The reason thereof should be stated.
- 14. State whether business dealing with you has been banned by Ministry /Department of supply or any other Govt. Department.
- 15. Please confirm that you have read all the instruction carefully and have complied with accordingly.

	)
Full Name & Address of the person signing	
	,
2. Whether signing as proprietor /partners	)



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## PERFORMA FOR PERFORMANCE STATEMENT

(For the Period of last 3 years)

Sr. No.	Order (full	Order No. &	Description	Value of	Date of	Has the
01.110.	placed	dated	And	Order	Completion	Equipment/Item
	address of		Qty. of Stores		of delivery	been
	purchaser)		Ordered		-	satisfactory
						commissioned



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## Annexure"A"

## **Specifications for Nano-Mechanical & Tribological Testing System**

A versatile depth sensing indentation testing system equipped with the nm resolution imaging technique should be quoted, to allow structure-property correlation and to study the mechanical properties of metals, ceramics, thin films, polymers, etc. The quotation should elaborate in terms of specifications, terms and conditions, and capabilities. Vague terms/specifications will not be acceptable. The specifications should be proved on-site.

The system should be provided with a suitable environmental isolation enclosure to minimize external disturbances like Thermal gradient, Acoustic Noise. The system should come with a dedicated controller and PC with the latest configuration and licensed software.

The indentation process must be top-down i.e., Indenter must be mounted vertical, and the sample is held horizontal on the XY stage.

The system should meet the following technical requirements.

Sno	Technical Parameter	Specification
1	Transducer Specifications	
1.1	Transducer Technology	Peizo/ Electromagnetic/ Electrostatic force actuation & capacitance displacement sensing
1.2	Maximum normal force	≥10 mN
1.3	Noise floor @60Hz	≤ 100 nN
1.4	Minimum Contact Force	≤100 nN or better
1.5	Maximum Displacement	≥ 5 µm
1.6	Displacement noise floor	≤ 0.5 nm
2	Imaging specifications	
2.1	Imaging Technique	SPM through tip translation over sample surface or Atomic Force Microscope Either of the imaging techniques should directly couple with nanomechanical and nanotribological characterization with high-resolution imaging.
2.2	Tip Position Accuracy	≤ ±25 nm
2.3	Scan Rate	At least 0.5 Hz – 2.5 Hz
2.4	Automated testing at the sites obtained from the AFM or in- situ SPM images	Must provide the ability to run the instrument in a fully automated mode to perform tests on specific locations identified through AFM or in situ SPM images

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2.5	SPM/AFM imaging at elevated	Tip scanning SPM/AFM imaging must be able to be used in
	Temperature	conjunction with heating environmental stages.
3 In	situ Wear tests	
3.1	Technique	• Wear at a smaller length scale should be performed by
	-	raster scanning the indenter tip over the sample surface at the user defined load.
		• It should also enable to measure wear resistance, wear
		volume.
		• It should also enable nano machining and nano patterning
		on surfaces.
3.2	Wear Track Size	$\leq 1 \mu \text{m to} \geq 50 \mu \text{m}$
3.3	Scan Velocity	$\leq 150 \mu \text{m/s}$
3.4	Normal Load Range	$\leq 1 \mu N \text{ to} \geq 1 \text{ mN}$
4	Property Mapping	
4.1	High-Speed nanoindentation	≥ 1 indent per sec to generate property maps such as hardness and modulus maps
5	Stages	
5.1	Z travel Distance	≥40 mm
5.2	Z Step Resolution	< 10 nm
5.3	Stage Travel X & Y	At least 100 mm x 40 mm
5.4	X&Y Step Resolution	50 nm
6	Controller & Data Acquisition	specifications
6.1	Controller Architecture	Digital: DSP & FPGA
6.2	Feedback Loop Rate	≥70kHz
6.3	Max. number of points per curve	At least up to 80,000 points
7	Optical Microscope	
7.1	Optical Objective	10X
8	<b>Environmental Isolation</b>	
8.1	Antivibration System	Suitable antivibration system to meet the above force and displacement noise floor specs.
		Vertical natural frequency of 1/2 Hz or less over the entire load
		range.
		Horizontal natural frequency of 1/2 Hz or less at or near the
		nominal load.
8.2	Environmental Enclosure	Isolation from acoustic, thermal, and air current disturbances
9	System specification	CPU: Intel Core i5 or better
Ī	_	Storage: 16 GB RAM; SSD: 1 TB

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Monitor: 32"   Suitable Table and chair be supplied.	100	test some?	
Suitable Table and chair be supplied.			Operating system: Windows 11, 32 or 64 bit.
Indentor tip specifications			
10.1   Berkovich Pyramidal diamond indenter (Qty 2)   Tip size 100 nm   Total included angle: 142.3°   3-sided pyramidal diamond probe	10	T-1-4-4-4	Suitable Table and chair be supplied.
indenter (Qty 2)  Conical diamond indenter (Qty1)  Nano tribology module  Transducer Technology and Lateral Measurement  Transducer Technology and Lateral force should be measured from the sensors rather than from stage movement  11.1 Maximum Normal Force ≥ 10mN  11.3 Maximum Lateral Load ≥ 1.5mN  11.4 Maximum Lateral Load ≥ 1.5mN  11.5 Minimum Lateral ≥ 12µm  Displacement  11.5 Minimum Lateral ≤ 750 nm  Displacement  11.6 Max Temperature (Optional)  12.1 Max Temperature Accuracy at Max Temperature Resolution ≤ 0.1°C  12.2 Temperature Resolution ≤ 0.1°C  12.4 Displacement Noise Floor ≤ 1 nm  13.1 Temperature Range -100°C to +100°C  14.1 Dynamic mechanical Analysis (Optional)  14.1 Technique Council of the first of the firs	10	indentor up specifications	
indenter (Qty 2)    Total included angle: 142.3°   3-sided pyramidal diamond probe	10.1	Berkovich Pyramidal diamond	Tip size 100 nm
3-sided pyramidal diamond probe			<u> </u>
Conical diamond indenter (Otyl)   Cone angle: 90			
O(ty1)   Cone angle: 90	10.2	Conical diamond indenter	
1.1.   Nano tribology module			
Lateral Measurement  Lateral force should be measured from the sensors rather than from stage movement  ≥ 10mN    1.2   Maximum Normal Force   ≥ 10mN     1.3   Maximum Lateral Load   ≥ 1.5mN     1.4   Maximum Lateral Displacement   ≥ 12µm     1.5   Minimum Lateral Displacement   ≥ 750 nm     1.6   High Temperature (Optional)	11	Nano tribology module	
Lateral Measurement  Lateral force should be measured from the sensors rather than from stage movement  ≥ 10mN    1.2   Maximum Normal Force   ≥ 10mN     1.3   Maximum Lateral Load   ≥ 1.5mN     1.4   Maximum Lateral Load   ≥ 12µm		Tuesdayees Technology and	Professibly electric estatic on Electromagnetic force estruction
from stage movement	111		
11.2   Maximum Normal Force   ≥ 10mN     11.3   Maximum Lateral Load   ≥ 1.5mN     11.4   Maximum Lateral Displacement   ≥ 12μm     11.5   Minimum Lateral Displacement   ≤ 750 nm     11.6   Minimum Displacement   ≤ 750 nm     11.7   Max Temperature   (Optional)     12.1   Max Temperature   ≥ 700°C     12.2   Temperature Accuracy at Max Temperature Resolution   ≤ 0.1°C     12.3   Temperature Resolution   ≤ 1nm     12.5   Imaging at High Temperature   SPM/AFM imaging must be able to be used in conjunction with heating environmental stages     13   Cryo Temperature (Optional)     13.1   Temperature Range   -100°C to +100°C     14   Dynamic mechanical Analysis (Optional)     14.1   Technique   Coupled AC and DC force modulation using lockin detection from the initial surface contact     14.2   Modes   Continuous Measurement of Hardness, Storage     15   Modes   Modes   Modulus, Loss Modulus, Stiffness, Tan Delta etc.     16   as a function of depth, frequency & time	11.1	Lateral Measurement	
11.3   Maximum Lateral Load   ≥ 1.5mN     11.4   Maximum	11.2	Maximum Namual Fance	·
11.4   Maximum   Lateral   ≥ 12μm     ≥ 150 nm	11.2	Maximum Normai Force	2 IOMIN
Displacement    Displacement	11.3	Maximum Lateral Load	≥ 1.5mN
Displacement    Displacement	11.4	Maximum Lateral	> 12um
Minimum Displacement   Section 2   Section 3   Section 4   Section 3   Sect			
Displacement   High   Temperature   (Optional)	11.5		< 750 nm
High   Temperature	11.5		
Coptional   Coptional	12	-	
2.1   Max Temperature   ≥ 700°C     2.2   Temperature Accuracy at Max Temperature       2.3   Temperature Resolution   ≤ 0.1°C     2.4   Displacement Noise Floor   ≤ 1nm     2.5   Imaging at High Temperature       3   Cryo Temperature (Optional)       4   Dynamic mechanical Analysis (Optional)       4   Technique   Coupled AC and DC force modulation using lockin detection from the initial surface contact     4   Modes   Continuous Measurement of Hardness, Storage Modulus, Loss Modulus, Stiffness, Tan Delta etc. as a function of depth, frequency & time		_	
Temperature    2.3   Temperature Resolution   ≤ 0. 1°C     2.4   Displacement Noise Floor   ≤ 1nm     2.5   Imaging at High Temperature   SPM/AFM imaging must be able to be used in conjunction with heating environmental stages     3   Cryo   Temperature (Optional)     4   Dynamic   mechanical   Analysis (Optional)     4   Technique   Coupled AC and DC force modulation using lockin detection from the initial surface contact     4   Modes   Continuous Measurement of Hardness, Storage   Modulus, Loss Modulus, Stiffness, Tan Delta etc. as a function of depth, frequency & time	12.1	_	≥ 700°C
2.3   Temperature Resolution   ≤ 0.1°C     12.4   Displacement Noise Floor   ≤ 1nm     12.5   Imaging at High Temperature   SPM/AFM imaging must be able to be used in conjunction with heating environmental stages     13   Cryo   Temperature (Optional)     13.1   Temperature Range   -100°C to +100°C     14   Dynamic   mechanical   Analysis (Optional)     14.1   Technique   Coupled AC and DC force modulation using lockin detection from the initial surface contact     14.2   Modes   Continuous Measurement of Hardness, Storage   Modulus, Loss Modulus, Stiffness, Tan Delta etc. as a function of depth, frequency & time	12.2	_ =	Greater of 2.2°C or 0.75%
2.4 Displacement Noise Floor   ≤ 1nm     2.5 Imaging at High Temperature   SPM/AFM imaging must be able to be used in conjunction with heating environmental stages     3	100	-	.0.400
12.5   Imaging at High Temperature   SPM/AFM imaging must be able to be used in conjunction with heating environmental stages     13   Cryo   Temperature (Optional)       13.1   Temperature Range   -100°C to +100°C     14   Dynamic   mechanical   Analysis (Optional)     14.1   Technique   Coupled AC and DC force modulation using lockin detection from the initial surface contact     14.2   Modes   Continuous Measurement of Hardness, Storage   Modulus, Loss Modulus, Stiffness, Tan Delta etc.   as a function of depth, frequency & time	12.3	Temperature Resolution	$\leq 0.1$ °C
with heating environmental stages  Cryo Temperature (Optional)  Temperature Range  -100°C to +100°C  Pynamic mechanical Analysis (Optional)  Coupled AC and DC force modulation using lockin detection from the initial surface contact  Continuous Measurement of Hardness, Storage Modulus, Loss Modulus, Stiffness, Tan Delta etc. as a function of depth, frequency & time	12.4	Displacement Noise Floor	≤ 1nm
with heating environmental stages  Cryo Temperature (Optional)  Temperature Range  -100°C to +100°C  Pynamic mechanical Analysis (Optional)  Coupled AC and DC force modulation using lockin detection from the initial surface contact  Continuous Measurement of Hardness, Storage Modulus, Loss Modulus, Stiffness, Tan Delta etc. as a function of depth, frequency & time	12.5	Imaging at High Tomporature	SDM/AEM imaging must be able to be used in conjugation
(Optional)  13.1 Temperature Range  -100°C to +100°C  14 Dynamic mechanical Analysis (Optional)  14.1 Technique  Coupled AC and DC force modulation using lockin detection from the initial surface contact  14.2 Modes  Continuous Measurement of Hardness, Storage Modulus, Loss Modulus, Stiffness, Tan Delta etc. as a function of depth, frequency & time	12.3	magnig at fright remperature	
(Optional)  13.1 Temperature Range  -100°C to +100°C  14 Dynamic mechanical Analysis (Optional)  14.1 Technique  Coupled AC and DC force modulation using lockin detection from the initial surface contact  14.2 Modes  Continuous Measurement of Hardness, Storage Modulus, Loss Modulus, Stiffness, Tan Delta etc. as a function of depth, frequency & time	13	Cryo Temperature	-
14 Dynamic mechanical Analysis (Optional)  14.1 Technique Coupled AC and DC force modulation using lockin detection from the initial surface contact  14.2 Modes Continuous Measurement of Hardness, Storage Modulus, Loss Modulus, Stiffness, Tan Delta etc. as a function of depth, frequency & time		_	
Analysis (Optional)  14.1 Technique Coupled AC and DC force modulation using lockin detection from the initial surface contact  14.2 Modes Continuous Measurement of Hardness, Storage Modulus, Loss Modulus, Stiffness, Tan Delta etc. as a function of depth, frequency & time	13.1	_	-100°C to +100°C
Analysis (Optional)  14.1 Technique Coupled AC and DC force modulation using lockin detection from the initial surface contact  14.2 Modes Continuous Measurement of Hardness, Storage Modulus, Loss Modulus, Stiffness, Tan Delta etc. as a function of depth, frequency & time	14	Dynamic mechanical	
<ul> <li>Technique Coupled AC and DC force modulation using lockin detection from the initial surface contact</li> <li>Modes Continuous Measurement of Hardness, Storage Modulus, Loss Modulus, Stiffness, Tan Delta etc. as a function of depth, frequency &amp; time</li> </ul>	= =	•	
Modulus, Loss Modulus, Stiffness, Tan Delta etc. as a function of depth, frequency & time	14.1		· ·
Modulus, Loss Modulus, Stiffness, Tan Delta etc. as a function of depth, frequency & time	14.2	Modes	Continuous Measurement of Hardness, Storage
as a function of depth, frequency & time	. —		
	14.3	Dynamic Frequency Range	· ·





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14.4	Maximum Dynamic Force Amplitude	≥5mN
14.5	Dynamic Displacement Amplitude	≤ 2nm to ≥2μm
15	High Load (Optional)	
15.1	Max Load for depth sensing indentation	10N or better

## Other General Requirements-

- 1. 3 years warranty by OEM.
- 2. Suitable UPS for minimum 30 minutes backup time and batteries shall be supplied. Wiring from the point of AC supply to UPS and from UPS to equipment is also in the scope of bidder and shall be included in quote.
- 3. Any special gases along with cylinders, regulators, piping essentials for working of equipment shall be supplied.
- 4. Institute shall provide only standard electricity supply/earthing as per indian conditions. Any specific electricity/earthing requirements shall be quoted and installed on site by successful bidder.
- 5. The bidder must have supplied at least 01 instrument of same type as quoted in bid (Configuration or models can be different), within last 3 years to reputed government organization/institute. The recent/current (obtained in 2025) feedback certificate/report from these reputed government organization/institute users must be provided.
- 6. Suitable specimen preparation equipment as per Annexure-1 shall be included in price and supplied.
- 7. All optional items must be quoted separately.

**ACCEPTABILITY CRITERION**- Vendor shall be able to demonstrate specimen preparation, nano indentation, nano scratch and other capabilities of the equipment



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#### **ANNEXURE-1**

1. Automatic Polishing Machine for finer poli	ishing surface on Metallographic, Ceramic,
Geological Samples	
Parameter	Specification
Single Aluminium Disc	Detachable
FRP Hood	Corrosion Resistant
Variable Speed	30 - 600 RPM or better
High torque AC Motor	1HP or better
Pressure on sample	5N – 90N or better
With Interchangeability of Specimen Sizes	1 1/4", 1 1/2:" & 2", 30mm, 40mm & 50mm
Display System	7" Advanced PLC based Touch Screen System
Automatic Specimen Head & Polisher Head Variable	30 to 150 RPM
Speed:	
Specimen Holder	1 1/4"
Colloidal Silical	1000mL
POLISHING CLOTHS (WITH PSA) Velvet Black	10Nos
LP004 POLISHING CLOTHS (WITH PSA) Velvet	10 Nos
Brown	

### 2. Specifications: Hydraulic Automatic Mounting Press

Sturdy table top model automatic Hydraulic Hot Mounting Press

Corrosion resistant steel Cabinet

Within built Electro Hydraulic Automatic system

### Display System

7" PLC User Friendly advanced LCD Touch Screen System

Pre Set Programming & Data Storage of Mounting Parameters up to  $100\,$ 

Setting of Heating Time, Cooling Time, Mount Temperature, Mounting

Pressure, Ram up and down, Cycle Start can be done and controlled

through the Touch Screen Pad

Cooling Process- Slow Cooling, Medium Cooling & Fast Cooling

System.

Hydraulic Pressure- 350 Bar.

Heating Time- 1-20min

Cooling Time -1-20 min

Heating Temperature-Room temperature to 2000

Stainless steel body Pressure Transmitter

Quick Ram return to speed up reloading

1600 Watt mould Heater with water jacket

Variable Pre heating upto 1000 C

Dovetail slot for easy changeability of Mould Assemblies

Slide Locking Mechanism



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Annexure"B"

#### FORMAT FOR PERFORMANCE BOND/GUARANTEE

(Undertaking from the supplier on a Non Judicial Stamp Paper of requisite duly attested by Notary)

In consideration for "The Re Jalandhar)having agreed to re				
Order No	dated	(hereinafter	called 'the	order') for supply
of (here in	after <b>called</b> ' <b>the Eq</b> เ	<i>ipment / Item</i> )to us	Messrs	
(hereinafter called 'the supp	<b>plier</b> ) on submission	n of a Performance	Bond to the	satisfaction of NIT
Jalandhar for the due perform	ance of the said orde	er.		
We, Messer's		hereby submi	t the FDR/TDR	! No
issued by	(Na	me of Bank) for		pledged in favour
of Registrar, NIT Jalandhar as				
absolutely undertake against	any loss or damage	caused or suffered	by NIT Jalanc	Thar by reason of any
failure of the supplier to perfe	orm or omission or I	negligence to perfor	m any part of	its obligations to the
satisfaction of NIT Jalandhar i	n terms of the order.			_

We, the supplier, do hereby authorize Registrar, NIT Jalandhar to forfeit this Performance Guarantee amount / undertake to pay the amount due and payable under this guarantee without any demur merely on a demand from the NIT Jalandhar stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the NIT Jalandhar by reason of any breach by us of any of the terms and conditions contained in the said order or by reason of our failure or omission or negligence to perform the said order or any part thereof. We, the Supplier, undertake to pay to NIT Jalandhar any amount so demanded by NIT Jalandhar, notwithstanding:

- a) Any dispute or difference between NIT Jalandhar and supplier or any other person or between the supplier or any person or any suit or proceeding pending before any court or tribunal or arbitrator relating thereto; or
- b) The invalidity, irregularity or unenforceability of the order; or
- c) Any other circumstances which might otherwise constitute discharge of this guarantee, including any act of omission or commission on the part of NIT Jalandhar to enforce the obligations by the supplier or any other person for any reason whatsoever.

We, the Supplier, further agree that the performance Bond/ Guarantee herein contained shall be continued one and remain in full force and effect during the period that would be taken for the performance of the said order and that it shall continue to be enforceable till all the dues of the NIT Jalandhar under or by virtue of the said order have been fully paid and its claims satisfied or discharged or till the office of the Registrar, NIT Jalandhar certifies that terms and conditions of the said order have been fully and promptly carried out by us and accordingly discharges this Performance Bond/ Guarantee.

We, the Supplier, further agree with NIT Jalandhar, that NIT Jalandhar shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said order or to extend time of performance by the said supplier from time to time or to postpone for any time or from time to time and of the powers exercisable by the NIT Jalandhar against the said supplier and forbear or enforce any of the terms and conditions relating to the order and we shall not be relieved from our liability by reason of any such variation or extension being granted to us or for any forbearance, act or omission on the part of NIT Jalandhar or any indulgence by NIT Jalandhar to us or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

This Performance Bond/Guarantee will not be discharged due to the change in the constitution of the supplier. We, the Supplier, undertake not to revoke this Performance Bond / Guarantee except with the prior consent of NIT Jalandhar in writing.

The disputes relating to this Bank Performance Bond / Guarantee shall be resolved as per the terms and conditions of the order.



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Annexure "C"

#### FORMAT FOR PERFORMANCE BOND (BANK GUARANTEE)

In consideration for the Registrar, National Institute of Technology Jalandhar, (hereinafter called NIT Jalandhar)

having agreed to release the payment of net value as per terms and conditions of a concluded Order Nodated(hereinafter called 'the order') for supply of
(hereinafter called 'the Equipment /Item) to Messrs (hereinafter called 'the supplier') on submission of a Bank Guarantee to the satisfaction of NIT Jalandhar for the due performance of the said order.
We,
We, the Bank do hereby undertake to pay the amount due and payable under this guarantee without any demur merely on a demand from NIT Jalandhar stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by NIT Jalandhar by reason of any breach by the said supplier of any of the terms and conditions contained in a said order or any part thereof. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the bank under this guarantee, which shall not be considered as satisfied by any intermediate payment or satisfaction of any part of or obligation hereunder. However, our liability under this guarantee shall be restricted to an amount not exceeding

We, the Bank, undertake to pay to NIT Jalandhar any amount so demanded by NIT Jalandhar, notwithstanding a). Any dispute and difference between NIT Jalandhar and supplier or any other person or between the supplier or any person or any suit or proceeding pending before any court or tribunal or arbitrator relating thereto or

- a). The invalidity, irregularity or unenforceability of the order or
- b). Any other circumstances which might otherwise constitute discharge of this guarantee, including any act of omission or commission on the part of NIT Jalandhar to enforce the obligations by the supplier or any other person for any reason whatsoever.

We, the Bank, further agree that the guarantee herein contained shall continue and remain in full force and effect during the period that would be taken for the performance of the said order and that it shall continue to be enforceable till all the dues of NIT Jalandhar under or by virtue of the said order have been fully paid and its claims satisfied or discharged or till the office of the Registrar, NIT Jalandhar confirms that the terms and conditions of the said order have been fully and promptly carried out by the said supplier and accordingly discharge this guarantee.

We, the Bank, hereby agree and undertake that any claim which the bank may have against the supplier shall be subject to and subordinate to the prior payment and performance in full of all the obligations of the bank hereunder and the bank will not, without prior written consent of NIT Jalandhar, exercise any legal rights or remedies of any kind in respect of any such payment or performance so long as the obligations of the bank hereunder remain owning and outstanding, regardless of the insolvency, liquidation or bankruptcy of the supplier or otherwise. We, the Bank, will not counter claim or set off against its liabilities to NIT Jalandhar hereunder any sum outstanding to the credit of NIT Jalandhar with it.

We, the Bank, further agree with NIT Jalandhar , that NIT Jalandhar shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said order or to extend time of performance by the said supplier from time to time or to postpone for any time or from time to time and of the powers exercisable by the NIT Jalandhar against the said supplier and forbear or enforce any of the terms and conditions relating to the order and we shall not be relieved from our liability by reason of any such variation or extension being granted to the said supplier or for any forbearance, act or omission on the part of NIT Jalandhar or any indulgence by NIT Jalandhar to the said supplier or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

This guarantee will not be discharged due to the change in constitution of the Bank or the supplier.

We, the Bank, lastly undertake not to revoke this Guarantee during its currency except with the prior consent of NIT Jalandhar in writing.

The disputes relating to this Bank Guarantee shall be resolved as per the terms and conditions of the order.



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Annexure "D"

# FORMAT FOR MANUFACTURER'S AUTHORIZATION FORM

To, The Registrar Dr B. R Ambedka Jalandhar	ır National Institute	of Technology				
Sub. : e-Tender f	or "	<u>"</u> .				
Dear Sir,						
		actory/office at			reputed manufacturers, hereby authorize	
	[name & ac	_	distributo	ors] to bio	d, negotiate and conclude the	order
We shall M/s	remain,	responsible jointly and sever		the	tender/Agreement negotiate	d by
offered for supply	against this invitation	on for bid by the a	above su	ipplier.	conditions of tender for the g e rendered by	<i>5</i> 0045
M/s	are as und	der:				
i)						
ii)						
changed or agent	/ distributor is chanç	ged it shall be ob	ligatory ch we v	on us to	e duties of the agent/distribut automatically transfer all the facto become liable for all a	duties
Yours faithfully,						
[Name & Signatur	e] For and on behalf	of M/s			Name of manufacturer]	



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Annexure "E"

# $\underline{\textbf{DECLARATION}}~ \underline{\textbf{REGARDING}}~ \underline{\textbf{BLACKLISTING}} / \underline{\textbf{DEBARRING}}~ \underline{\textbf{FOR}}~ \underline{\textbf{TAKING}}~ \underline{\textbf{PART}}~ \underline{\textbf{IN}}~ \underline{\textbf{TENDER}}$

## **Self Attested**

I / We	(Tende	rer) hereby decla	are that the firm / a	agency namely M/s.
			has not b	een blacklisted or
debarred in the past by U				Sovernment tenders
in India.				
	Or			
I / We	(Tende			
debarred by Union / Stat period of	te Government or any Or	ganization from ta	aking part in Gover	nment tenders for a
	years w.e.f	to	The p	eriod is over on
ar	nd now the firm/company i	is entitled to take p	part in Government	enders.
In case the above information cancelled by Director, NI		•		will be rejected /
DEPONENT				
Attested:				
(Stamp of Company wit	h authorized sign)			
Name				
Address				



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Annexure: "F"

#### **CERTIFICATE OF WARRANTY**

- ii). During the warranty period, we shall provide at least \_\_\_\_\_preventive maintenance visits.
- iii). Uptime Guarantee: During the warranty period, we will be responsible to maintain the Equipment /Item in good working conditions for a period 350 days (i.e. 95% uptime) in a block of 365 days.
  - a). All complaints will be attended by us within 2 working days of receipt of the complaint in our office.
  - b). In case there is delay of more than 2 days in attending to a complaint from our side then you can count the number of days in excess of the permissible response time in the downtime. The above said response time of 2 days for attending to a complaint by us will not be counted in the downtime.
  - c). **Penalty**: We shall pay a penalty equivalent to **0.5** % **of the FOB/CIF** value of the Equipment /Item for every week or part thereof delay in rectifying the defect.

Note: The right to accept the reason (s) for delay and consider reduction or wave off the penalty for the same shall be at the sole discretion of Director, NIT Jalandhar

iv). We certify that the Equipment /Item being/	quoted is the latest model and that spares for the Equipment
/Item will be available for a period of at least _	years and we also guarantee that we will keep
the organization informed of any update of the	Equipment /Item over a period of
vears	

- v). We guarantee that in case we fail to carry out the maintenance within the stipulated period, NIT Jalandhar reserves the right to get the maintenance work carried out at our risk, cost and responsibility after informing us. All the expenses including excess payment for repairs/maintenance shall be adjusted against the Performance Bank Guarantee. In case the expenses exceed the amount of Performance Bank Guarantee, the same shall be recoverable from us with/without interest in accordance with the circumstances.
- vi). We shall try to repair the Equipment /Item at NIT Jalandhar premises itself. However, the Equipment /Item will be taken to our site on our own expenses in case it is not possible to repair the same at NIT Jalandhar. We shall take the entire responsibility for the safe custody and transportation of the Equipment /Item taken out for repairs till the Equipment /Item is rehabilitated to the NIT Jalandhar after repair Any loss of Equipment
- /Item or its accessories under its charge on account of theft, fire or any other reasons shall be at our sole risk and responsibility which will be compensated to NIT Jalandhar for such losses at the FOB/CIF value for the damaged/lost Equipment /Item part, including accessories.
- vii. We undertake to perform calibration after every major repair/breakdown/taking the Equipment /Item for repair out of NIT Jalandhar premises.
- viii. In case of extended warrantee, we undertake to carry out annual calibration of the Equipment /Item.
- ix. We guarantee that we will supply spare parts if and when required on agreed basis for an agreed price. The agreed basis could be an agreed discount on the published catalogue price.
- x. We guarantee to the effect that before going out of production of spare parts, we will give adequate advance notice to you so that you may undertake to procure the balance of the life time requirements of spare parts.
- xi. We guarantee the entire unit against defects of manufacture, workmanship and poor quality of components.

Signature & Seal of the Manufacturer/Tenderer



# Dr B R AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY G T Road By Pass, Jalandhar-144008, Punjab (India) EPABX-0181-2690301 & 453 website: www.nitj.ac.in email:

registrar@nitj.ac.in

#### **Annexure-G**

Refer to No. F.7/10/2021-PPD (1) Dated: 23/02/2023 Department of Expenditure Ministry of Finance Government of India

(TO BE FURNISHED ON BIDDER'S LETTER HEAD)

То	
Sub: Acceptance of Terms & Conditions of Tender	
Tender Reference No	
Name of Tender:	
Dear Sir,	
'I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that this bidder is not from a country or, if from such a country, has been registered with the Competent Authority, I hereby certify that this bidder fulfills all requirement in this regard and is eligible to be considered. (Where applicable, evidence of valid registration by the Competent Authority shall be attached.)"	
Yours faithfully,	
(Signature & Name of the Authorized Signatory with Company Se	al)