

G T Road By Pass, Jalandhar-144008, Punjab (India) EPABX-0181-2690301 & 453 website: www.nitj.ac.in email: registrar@nitj.ac.in

Ref. e-Tender Notice No. NITJ/PUR/IPE/114/23 to 122/23/ e-tender No-52/2023

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Assistant Registrar

Dr. B. R Ambedkar NIT Jalandhar

Email: arpurchase@nitj.ac.in

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

e-Tender Notice No. NITJ/PUR/IPE/114/23 to 122/23/ e-tender No-52/2023

National Institute of Technology, Jalandhar invites e-tender for Purchase of Various Equipments / Insturments / Items required for the department of Industrial and Production Engineering 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 e-tender/bids	Start Date: 30.09.2023 at 04:00 PM
П	Last date of submission of online bids	End Date: 21.10.2023 upto 04:00 PM
III	Physical submission of Tender Fee and EMD	End Date: 23.10.2023 upto 04:00 PM
IV	Opening of Technical e-Bid (online)	23.10.2023 at 04:00 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 www.nitj.ac.in and CPP Portal. Only e-tenders will be accepted.

NOTE: This is a domestic Tender according to the DPIIT Order dated 16.09.2020 and subsequent amendments to the order for Public Procurement Preference & PROVISION FOR LOCAL SUPPLIERS TOWARDS PREFERENCE TO MAKE IN INDIA.

The bidder is required to provide a declaration from the Original Equipment Manufacturer (OEM) on their letter head the percentage of Local content for the quoted instrument/Item and submit with the Technical Bid as per Annexure-G. Only class – I and class II Local Suppliers will be eligible to participate in tender. Non – LocalSuppliers are not eligible to participate in tender. Bidder should also give details of the location(s) at which the local value addition is made in the Annexure, failing which the bid will be rejected. The bidder need to fill the Annexure-G also duly stamped and signed failing which, the bid will not be considered valid for technical evaluation.

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Annexure-I

Ref. No. e-Tender Notice No. NITJ/PUR/IPE/114/23 to 122/23/ e-tender No-52/2023

Detail of Equipment, Tender Fee & EMD are as under:

Sr. no.	Item/Equipment	Qty.	Tender Fee	EMD
1.	Sine Bar and Slip Gauge Set	01	Rs. 500/-	Rs. 13,800 /-
2.	Gear Tooth Vernier Caliper	02		
3.	Electrical Conductivity Measurement (Four Probe Method)	01		
4.	Load Measurement Trainer	01		
5.	Speed Measurement Trainer (Magnetic and Photo Reflective)	01		
6.	Strain Measurement Trainer (Full Bridge and Half Bridge)	01		
7.	Melt Flow Index Tester	01		
8.	Piezoelectric Trainer Module (For Impact Force)	01		
9.	Thermal Conductivity Measurement Apparatus	01		

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

^{*}Exemption of Tender fee & EMD will only be given to MSME/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 www.nitj.ac.in 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 www.nitj.ac.in 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/MSME registered bidders, then bidder is required to submit NSIC/MSME exemption certificate for same. The Certificate 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

- 1. No tender will be accepted in physical form. The bidders shall have to submit their bids online in Electronic Format under Digital Signatures. For participation in the etendering process, the bidders need to register themselves on CPP Portal.
- 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 Supply of Various Equipments / Instruments / Items and sent to following address:-

Kind Attention- Assistant 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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- 9. 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 performance security @ 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.Read and Accepted. (Signature & Stamp of Tenderer)



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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) Only one agent/dealer of single Principle/OEM can submit the bid. If more than one agent/dealer of same OEM/Principal quote in the tender, then bids of all the bidders of single OEM/Principle are liable to be rejected.
- d) 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 **Annexure-D**. 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. The institute being government educational institute is having Excise and Custom duty exemption in terms of government notification No. 51/96-customs Dt. 23-7-1996 and No. 10/97-central excise Dt. 1-3- 1997 as amended from time to time, therefore taxes be quoted accordingly and this must be depicted in Price Bid clearly.
- 4. GST or any other chargeable duty where applicable must be specifically mentioned, failing which no tax or duty will be allowed at subsequent stage.
- 5. 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.

6. 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%.
- 7. 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 <u>Annexure-F</u> with the technical bid.
 - 8. Training: In house training (where applicable) after the installation and commissioning of Equipment / Machinery/Instrument etc. shall be provided by the supplier.
 - **9. 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.
- **10. 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.
- 11. Spares and Accessories, wherever required should be quoted separately and clearly, even if these are not asked for.
- **12. 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.
- **13.** 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.
- **14.** Details about the service center for the quoted Equipment / Machinery/Instrument etc. in India may be mentioned.

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Acceptance

We	read and accept the instructions to the
	ther documents as mentioned in the tender
Name of Bidder	 Signature
Address	Seal of firm:
	 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.
- 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.
- 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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- 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:
 - 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.

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

(Signature of Tenderer)



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PERFORMA FOR PERFORMANCE STATEMENT

(For the Period of last 3 years)

•	e-Tender Notice No. NITJ/PUR/IPE/114/23 to 122/23/ e-tender No-52/2023					
Sr. No.	Order (full placed address of purchaser)	Order No. & dated	Description And Qty. of Stores Ordered	Value of Order		Has the Equipment/Item been satisfactory commissioned



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Annexure "A"

Sine Bar and Slip Gauge Set

Length: 200 mm

Material: High-quality steel construction

Accuracy: ±0.01 mm (±0.0004 inch)

Sine Angle: Adjustable sine angle range from 0° to 90°

Surface Finish: Precision ground and polished surfaces

Parallelism: High parallelism between top and bottom surfaces

Vee Block: Equipped with Vee block for secure workpiece placement

Reference Standard: Includes a certified reference standard for calibration

Accessories: Dial indicator with stand

Slip gauges set-87 Pieces

Application: Suitable for precise angle measurement and machining

operations.



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Gear Tooth Vernier Caliper

Measurement Range: 0-150 mm (0-6 inches)

Accuracy: ±0.02 mm (±0.001 inch)

Gear Module Compatibility: Compatible with various gear modules

Pitch Diameter Measurement: Capable of measuring pitch diameter

Depth Measurement: Depth range of at least 100 mm (4 inches)

Vernier Scale: Clear and precise vernier scale with 0.02 mm (0.001 inch)

resolution

Construction Material: High-quality stainless steel or hardened tool steel

Jaw Design: Pointed or custom-shaped jaws for accurate measurements

Locking Mechanism: Secure locking mechanism to prevent movement

Dual Metric/Imperial Scale: Displays both metric and imperial units

Ergonomics: Comfortable and non-slip grips

Calibration Certificate: Optional calibration certificate for accuracy

assurance



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Electrical Conductivity Measurement

Number of Probes: Four probes

Probe Material: Stainless steel

Probe Spacing: from 1 mm to 10 mm

Probe Dimensions: Thin and sharp probes with a diameter of 0.5 mm

Current Range: Selectable current range from 1 µA to 1 mA for different

conductivity levels.

Voltage Range: Adjustable voltage range from 1 mV to 10 V

Measurement Accuracy: High measurement accuracy of ±0.1% with low

noise levels for precise conductivity readings.

Temperature Control: Integrated temperature control feature allowing

measurements at temperatures ranging from 0°C to 100°C.

Data Logging and Analysis: Built-in memory with the capacity to store at

least 1000 measurements and compatibility with software for data analysis

and visualization.

User Interface: Digital display with clear readouts and intuitive controls for

easy operation and configuration.

Power Supply: AC mains power supply with voltage compatibility of 110-

240V, 50/60Hz.

Safety Features: Overcurrent and overvoltage protection, short circuit

detection, automatic shutoff, and audible alarms for user safety



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Load Measurement Trainer

Strain gauge-based load cell,

Loading arrangement to load in compression, weights, and

Digital load indicator to read the load in Kg.

Load Cell 1 Kg Capacity

Indicator 3½ digits to read up to ±1999

counts.

Bridge balancing Potentiometer

Bridge Excitation 10 V DC

Resolution 0.01K

Power Supply 230V \pm 10% @50 H

Accessories 100g X 10 Dead Weights

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Speed Measurement Trainer

Motor Capacity: 12V DC Motor Max.

Motor Speed: 1500 RPM (approx.)

Motor input Supply12V DC.

Motor Speed Control Using POT.

Display: 4 Digit LED display up to 9999 Counts

Connection: 3 Core shielded cable

Resolution: 1RPM

Power Supply: 230 VAC 50 Hz

Speed Control: 1.2 to12V (1A) variable DC drive

Tone Wheels: 2 tone wheels of 60 teeth for two sensors.

MS Gear wheel of 60Teeth,

Copper wheel with 60 slots Tone Wheel MS Gear wheel of 60Teeth,

Copper wheel with 60 slots Sensor

Method of measurement Non- Contact Magnetic Pickup & Photo reflective

Power required for operation
 230V, 50Hz, 1 phase

Digital Speed indicator has 4 Digit Display along with Counter and

comparison.



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Strain Measurement Trainer

Power Requirement: 230 Volt, ± 10%, 50 Hz.

Range : 0 - 500, μ Strain.

Sensor: Strain Gauge fitted on Strain Bar

Weight Capacity: 1, Kg. (Maximum)

Cantilever fitted with a platform for loading.

Strain Gauge Sensor.

3 ½ Digit Digital Strain Indicator.

Dr B

Dr B R AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY

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Melt Flow Index Tester

- · Display: LED (Digital)
- Temperature Range: Ambient to 400°C.
- Accuracy: ± 1°C.
- · Resolution: 0.1°C.
- Timer: Digital Preset upto 999 seconds (Changeable to Hrs:min:sec)
- · Dimensions of piston head: 9.47mm diameter
- Diameter of heater tube cavity: 9.55mm ± 0.005mm
- Dimensions of Die: 2.095mm ± 0.005mm
- Weights: 1.2 kg; 2.16 kg; 3.8 kg & 5 kg
- · Sensor Type: PT 100
- · Temperature Controller: PID
- · Sample Type: Resins or Plastics
- · Sample Cutting: Automatic motorised
- Power Supply: Single Phase, 220-240 AC, 50 Hz.
- Paint: Powder Coated Grey and Blue Combination along with zinc/bright chrome plating.
- · Optional Accessory: Lab Weighing Balance 200gms
- Standard Accessory: Orifice, Piston, Spoon, Plumb Line, Funnel, Material charger, Mirror, Tweezers, Barrel cleaner,
 Orifice cleaner, Sample cutter and Accessory stand

Sin

M



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Piezo-Electric Trainer

Digital Voltmeter: 200mV DC.

Power Supplies:

- DC Supply IC Regulated +12V DC, 150mA.
- DC Supply IC Regulated +5V DC, 150mA.
- Operated on Mains power 230V, 50Hz +10%

Components are mounted on the panels are:

- Variable Resistor (Presets)
- 741 IC Piezo Electric Sensor.

Salient Features:

- Front panel built with high class insulated Printed Circuit Board sheet with well printed circuits and symbols.
- Fuse for Short Circuit protection
- · Protection Covers.
- Connections are brought out through 2mm Colored Sockets.
- Patch Cords 2mm.

The trainer is housed in ABS Plastic cabinet.



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Thermal Conductivity Measurement Apparatus

Thermal Conductivity: 0.005 to 1800 W/m/K.

Thermal Diffusivity: 0.01 to 1200 mm²/s.

Thermal Effusivity: 20 to 55000 WVs/m²/K.

Specific Heat Capacity: Up to 5 MJ/m³/K.

Reproducibility: Typically better than 1 %.

Accuracy: Better than 5 %.

Temperature Range: -50 °C to 250 °C.

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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)

	"The Registrar, National Institu agreed to release the payment	•	•
concluded Order No	dated	(hereinafter called	<i>(the order')</i> for supply
of <i>(</i>	here in after called 'the Equipme i	nt /Item /Ito us Messrs	
•	the supplier') on submission of performance of the said order.	a Performance Bond to the	ne satisfaction of NIT
We, Messer's		hereby submit the FDR/TDI	R No
favour of Registrar, unconditionally and a Jalandhar by reason o	(Name NIT Jalandhar as performance absolutely undertake against any of any failure of the supplier to perform satisfaction of NIT Jalandhar in te	e guarantee amount and / loss or damage caused orm or omission or negligen	hereby irrevocably, or suffered by NIT

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 Jaland	
having agreed to release the payment of net value as per terms and conditions of a concluded Order	No.
dated (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 the said order.	ce of
We, (hereinafter called 'the Bank') at the req	uest
of the supplier do, as a primary obliger and not merely as surety, hereby irrevocably, unconditionally absolutely undertake against any loss or damage caused or suffered by NIT Jalandhar by reason of any fa of the supplier to perform or omission or negligence to perform any part of its obligations to the satisfaction NIT Jalandhar in terms of the order.	and ilure
We, the Bank do hereby undertake to pay the amount due and payable under this guarantee without any de merely on a demand from NIT Jalandhar stating that the amount claimed is due by way of loss or dam caused to or would be caused to or suffered by NIT Jalandhar by reason of any breach by the said supplied any of the terms and conditions contained in a said order or any part thereof. Any such demand made on Bank shall be conclusive as regards the amount due and payable by the bank under this guarantee, which so 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	nage er of the shall ation

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					
_	ar National Institute of Tec	hnology			
Sub. : e-Tender f	ior "	".			
Dear Sir,					
		ffice at		eputed manufacturers, hereby authorize M id, negotiate and conclude tl	
order with you for	the above goods manufactu	red by us.			
We shall	remain respo	onsible for	the to	ender/Agreement negotiated b	y
		•		firm or individual other than M/	
	are autlinst this specific tender as fo		•	I conclude the order in regard	to
*specify in det	ail manufacturer's respons	ibilities the ser	vices to be	rendered by	
M/s	are as under:				
i)					
[Specify the s	ervices to be rendered by the	e agent/distribut	<i>or]</i> In case d	uties of the agent/distributor a	·e
changed or agent	/ distributor is changed it sha	all be obligatory	on us to aut	omatically transfer all the dutie	s
and obligations t	o the new Indian Agent fai	ling which we v	vill ipso-fact	o become liable for all acts	of
commission or on	nission on the part of new Inc	dian Agent/ distr	ibutor.		
Yours faithfully,					
[Name & Signatur	re] For and on behalf of M/s.		[Na	me of manufacturer]	



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Annexure "E"

DECLARATION REGARDING BLACKLISTING / DEBARRING FOR TAKING PART IN TENDER

Self Attested

I / We	_ (Tenderer) hereby declare that the firm / agency namely
M/s	has not been blacklisted or
debarred in the past by Union ,	State Government or organization from taking part in
Government tenders in India.	
	Or
I / We	_ (Tenderer) hereby declare that the Firm / agency namely
M/s	was blacklisted or
debarred by Union / State Govern tenders for a period of	ment or any Organization from taking part in Government
years w.e	.f to The period is over on
and now the fire	m/company is entitled to take part in Government tenders.
In case the above information found	I false I / we are fully aware that the tender/ contract will be
rejected / cancelled by Director, NIT	Jalandhar, and EMD / SD shall be forfeited.
DEPONENT	
Attested:	
(Stamp of Company with authoriz	ed sign)
Name	
Address	



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Annexure: "F"

CERTIFICATE OF WARRANTY

- i) .I/We certify that the warranty shall be for a period of ______ years for ______ and starting from the date of satisfactory installation, commissioning and handing over of the Equipment /Item and of the works conducted therewith covered under the supply order in working order. During the warranty period, I/we shall provide free "after sale service" and the replacement of any part(s) of the Equipment /Item or rectification of defects of work of the Equipment /Item will be free of cost. The replacement of the parts shall be arranged by us, at our own cost and responsibility. We undertake that the above warranty shall begin only from the date of satisfactory and faultless functioning of the Equipment /Item for 60 days at NIT Jalandhar premises. The benefit of change in dates of the warranty period shall be in the interest of the use/your organization.
- 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 ____ years.
- 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



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Annexure-G

SELF DECLARATION [For Local Content of Products, Services or Works]

10,	
	e Director B.R.Ambedkar NIT Jalandhar
1.	With reference to Order No. P- 45021/2/2017-PP(BE-II) dated 16-09-2020 of DPIIT, Ministry of Commerce and Industry, Govt. of India, we fall under the following category of supplier (please tick the correct category) for the items for which this tender has been floated and being bided.
	· Class I local supplier – has local content equal to more than 50%. Local contents added at
	(name of location).
	· Class II local supplier – has local content more than 20% but less than 50%. Local
	contents added at(name of location).
	Non-local supplier – has local content less than or equal to 20%. Local contents added at (name of location).
2.	We are solely responsible for the abovementioned declaration in respect of category of supplier. False declarations will be in breach of the Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which we may can be debarred for up to 2 years as per Rule 151(iii) of the General Financial Rules along with such other actions as may be permissible under law.
Sig	nature & seal of the company
	me and address of the organization
• • • • •	

Note: In cases of procurement for a value in excess of Rs. 10 crores, the 'Class-I local supplier' / 'Class-II local supplier' shall be required to provide a certificate from the statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.



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Annexure-H

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)

	Date:
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 of	or, if from such a country, has been registered with
the Competent Authority, I hereby certify that this bidder fulfills	s all requirement in this regard and is eligible to be
considered. (Where applicable, evidence of valid registration by t	the Competent Authority shall be attached.)"
	Yours faithfully,
(Signature & Nar	me of the Authorized Signatory with Company Seal)