



**Dr B R AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY**

**G T Road By Pass, Jalandhar-144011, Punjab (India)**

EPABX-0181-2690301 & 453 website: [www.nitj.ac.in](http://www.nitj.ac.in) email: [registrar@nitj.ac.in](mailto:registrar@nitj.ac.in)

**Ref. No. NITJ/PUR/150/18/ e-Tender No.15/2018**

**Date:**

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**Assistant Registrar**

**Dr. B. R Ambedkar NIT Jalandhar**

**Email: [arpurchase@nitj.ac.in](mailto:arpurchase@nitj.ac.in)**



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

**e-TENDER NOTICE - NITJ/PUR/150/18/ e-Tender No. 15/2018**

**National Institute of Technology, Jalandhar invites e-tender for purchase of various equipments for labs as per detail list available at Annexure – “A” along with Tender Fee, EMD & Processing Fees as per details given below:**

I	Downloading & Submission of Online e-tender	Start Date: 27.10.2018 at 03:00 PM
		End Date: 19.11.2018 up to 05:00 PM
II	Physical submission of Tender Fee and EMD	End Date: 26.11.2018 up to 05:00 PM
III	<b>Opening of Technical e-Bid (online)</b>	<b>28.11.2018 on 11:00 AM</b>

Detailed Terms and Conditions are available in e-tender document. The bid document can be downloaded from the website of [www.tenderwizard.com/NITJ](http://www.tenderwizard.com/NITJ).

Complete tender document is available for reference purposes on Institute website [www.nitj.ac.in](http://www.nitj.ac.in). Only e-tenders will be accepted. Bidders may contact Mr. Vijay Kumar on behalf of M/s ITI Limited on mobile No. 8146699878 or e-mail: [vijay@etenderwizard.com](mailto:vijay@etenderwizard.com) and may also contact on Chandigarh Helplines: 0172-3934667, 9257209340, 8054628821, Delhi Helpline – 011-49424365.

**Registrar**



**Ref. No. NITJ/PUR/150/18/ e-Tender No. 15/2018**

**Date:**

**Detail of Equipments, Tender Fee & EMDs is as under:-**

<b>CAT.</b>	<b>Item/Equipment</b>	<b>Qty.</b>	<b>Tender Fee*</b>	<b>EMD*</b>	<b>Tender processing Fee (Including GST)</b>
A	3D Printer	01	Rs.500/-	Rs.52,000/-	Rs.2,832/-
B	Portable Aerosol Spectrometer	01	Rs.500/-	Rs.24,000/-	Rs.1,416/-
C	Portable UV Spectrophotometer	01	Rs.500/-	Rs.11,000/-	Rs.885/-
D	Digital Rotational Viscometer with Accessories	01	Rs.500/-	Rs.12,180/-	Rs.885/-
E	Heat Flux Microsensor with Water Cooling Adaptor	01	Rs.500/-	Rs.14,000/-	Rs.885/-
F	CNC Machining Center	01	Rs.500/-	Rs.45,000/-	Rs.2,584/-
G	CNC Turning Center	01	Rs.500/-	Rs.31,000/-	Rs.1,817/-
H	Real Time Blood Pressure beat to beat recoding (non-invasively system fully compatible with existing multi bio-signal data acquisition system)	01	Rs.500/-	Rs.48,000/-	Rs.2,832/-
I	Supply, Installation & Testing, Commissioning & Erection of the 50 KVA DG Set & AMF Panel with Other Material	01	Rs.500/-	Rs.15,000/-	Rs.885/-

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

**Exemption of Tender fee & EMD will only be given to MSME/NSIC registered bidders.**



1. All corrigenda, addenda, amendments and clarifications regarding this tender document will be uploaded on the website [www.nitj.ac.in](http://www.nitj.ac.in) only 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](http://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 separate for each category) in the form of DD in favour of Director, D R B R Ambedkar NIT, Jalandhar.**
  6. **EMD (refundable separate for each category) 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. The Processing fees for each category shall be paid through online mode only to M/s ITI Limited, New Delhi.**
- ❖ **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.**



**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 e-tendering process, the bidders need to register themselves on **www.tenderwizard.com/NITJ**. The registration and other charges are available on their website. On registration, they will be provided a user ID and a system generated password enabling them to submit their Bids online using Digital System Certificates (DSC).
2. Tenders without Digital Signatures will not be accepted by the electronic tendering system.
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 alongwith 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 for each category) 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 for each category) should also be submitted in physical form to the following address as per scheduled time given for physical submission of EMD and Tender fee. Envelope should have full address and phone number of the tenderer.**

**Kind Attention- Purchase Section  
Submission of EMD and Tender Fee  
Due Date \_\_\_\_\_ and Time \_\_\_\_\_  
Name of the Equipment \_\_\_\_\_ e-Tender No: \_\_\_\_\_ Category- \_\_\_\_\_  
Director,  
Dr B R Ambedkar National Institute of Technology,  
G T Road Amritsar By Pass, Jalandhar-144001, 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.

**Read and Accepted**

**(Signature & Stamp of Tenderer)**



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 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 of the Equipment / Item.**
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 @ 5% of the total value of the offer. The performance security will be kept till the warranty period 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)**



19.
  - a) Either the Indian 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 **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.

**Read and Accepted.**

**(Signature & Stamp of Tenderer)**



## **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 centre 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.

**Read and Accepted**

**(Signature & Stamp of Tenderer)**





**PART – II (e-FINANCIAL BID):**

- a) Bidders who are quoting the rates in Indian Rupees should offer the rates as per the format of tender as per **Annexure “F” (online only)**. 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 [www.tenderwizard.com/NITJ](http://www.tenderwizard.com/NITJ) (**Annexure “F”**) where separate sheet with adequate space has been provided.
- b) Bidders who are quoting the rates in foreign currency should offer the rates as per the format of tender as per **Annexure “G” (online only)**. Detailed bill of material/quantity is 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 n at [www.tenderwizard.com/NITJ](http://www.tenderwizard.com/NITJ) (**Annexure “G”**) where separate sheet with adequate space has been provided.

In case, some of Items/accessories of required equipment is to be provided with indigenous make accessories/components, the same should be clearly mentioned with rates in the online price bid given at [www.tenderwizard.com/NITJ](http://www.tenderwizard.com/NITJ) (**Annexure “G”**) where separate sheet with adequate space has been provided. If no rates have been mentioned for said accessories/components, the rates quoted should be treated inclusive of all accessories/ components.

❖ **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.**

- c) Conversion to Single Currency: To facilitate evaluation and comparison, the Institute will convert all the bid prices expressed in the amounts in various currencies to the Indian Rupees as per the TT selling rates of RBI on the date of opening of technical bids.
- d) Custom, GST or any other taxes, Education Cess and other charges must be mentioned in the price bid. The financial evaluation/comparison will be made after including all the above mentioned charges/taxes.

**Read and Accepted.**

**(Signature & Stamp of Tenderer)**



**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.

**Read and Accepted.**

**(Signature & Stamp of Tenderer)**



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

1. Rate should be quoted F.O.R NIT Jalandhar.
2. Price list for spare parts/consumables parts required after warranty or otherwise may be provided on the separate sheet in the online financial bid as per **Annexure 'F & G'** where adequate space is given for purpose (It is only for information purpose and is not part of the price bid).
3. a) For Foreign Import goods/ Equipment, the rates will be evaluated on DAP basis as per Annexure-G along with the item/equipment to be supplied in Indian rupees (If any). Therefore, rates should be quoted on DAP basis with separately mentioning of CIF or FOB charges. The complete description viz. make and model of the Equipment / item and name of the manufacturer must be clearly indicated. The equipment should be insured up to NIT, Jalandhar. Institute will provide all the documents regarding custom clearance.  
  
b) e-Bids found without quoted up to DAP NIT value shall be treated as invalid.
4. Where the Equipment /Item 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 /Item according to its requirements.
5. 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.
6. a) The tenderer(s) who are quoting rates in foreign currency should quote Custom Duty for import (Foreign) goods against Custom Duty Exemption Certificate. The tenders claiming custom duty as extra should specifically give the present rate of Custom Duty as payable against each Equipment /Item. The custom duty so claimed will be reimburse on custom duty receipt basis.  
  
b) The tenderer(s) who are quoting rates in Indian Rupees, the rates should be quoted inclusive of custom Duty against Custom Duty Exemption Certificate (if any). No custom duty will be paid separately. Only custom duty certificate will be provided.
7. GST or any other chargeable duty where applicable must be specifically mentioned, failing which no tax or duty will be allowed at subsequent stage.
8. 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.

**Read and Accepted.**

**(Signature & Stamp of Tenderer)**



9. a) 90% payment will be allowed against physical delivery, inspection, installation and training of the Equipment/Item in the institute. Balance 10% payment will be released within 20 days from the installation, receipt of satisfactory working report of the Equipment /Item/ and receipt of Performance Bank Guarantee.
- b) **For Import Equipment /Item:** 90% of the DAP value of the equipment will be released, through irrevocable Letter of Credit (LC)/ Wire Transfer/ foreign draft/ draft at sight document. Balance 10% of the DAP value will be released after inspection, installation, training and performance bank guarantee of the Equipment /Item in the institute. The payment charged by bidder on account of custom clearance, loading/unloading, transportation, insurance etc. as per price bid and delivery upto NIT, Jalandhar will be reimbursed against actual receipt basis in Indian rupees.

In case of payment through Letter of Credit, all the Bank charges within India will be borne by NIT Jalandhar and all bank charges outside India will be borne by the supplier.

**10. Warranty: Rates should be quoted with comprehensive warranty.** Besides this, policy regarding after sale service on the expiry of warranty period of Equipment /Item may be explained. The bidders should attach duly signed and stamped certificate of **warranty** as per **Annexure-H** with the technical bid.

**11. Training: In house training (where applicable) after the installation and commissioning of Equipment /Item shall be provided by the supplier.**

**12. 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.

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.

**13. Installation:** Supplier has to install the Equipment /Item/ within two to three weeks from the receipt of the Equipment /Item in NIT Jalandhar.

**14. Spares and Accessories,** wherever required should be quoted separately and clearly, even if these are not asked for.

**Read and Accepted.**

**(Signature & Stamp of Tenderer)**



- 15. 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 /Item which NIT Jalandhar should arrange before the arrival of Equipment /Item/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.
- 16.** The total scope of work includes the supply, installation, satisfactory commissioning and testing of the Equipment /Item 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 /Item/ of NITJ.
- 17.** Details about the service center for the quoted Equipment /Item in India may be mentioned.

**Read and Accepted.**

**(Signature & Stamp of Tenderer)**



**SPECIAL CONDITIONS FOR SUBMITTING BID IN FOREIGN CURRENCY BY THE INDIAN AGENTS/DEALERS:**

1. The Tenderer should submit the following documents/information while quoting:
  - a) Foreign Principal's Performa invoice/quote indicating the commission payable to the Indian Agent and nature of after sales service to be rendered by the Indian Agent.
  - b) Copy of Agency agreement with the Foreign Principal and the Indian Agent, precise relationship between them and their mutual interest in the business.
  - c) Agency Commission will be paid in only Indian Currency.
  - d) Compliance of the tax laws by the Indian Agent.
2. The following information/documents are to be submitted wherever applicable.
  - Product Literature.
  - The earliest delivery period and country of origin of the Stores.
  - Banker's name, address, telephone/fax Nos. & e-Mail ID of the Contractor.
  - The approximate net and gross weight and dimensions of packages/cases.
  - Recommended spares for satisfactory operation for a minimum period of one year.
  - Details of any technical service, if required for erection, assembly, commissioning and demonstration.
3. The FOB/FCA and C & F prices quoted should be inclusive of all taxes, levies, duties arising in the tenderer's country.
4. Samples, if called for, should be sent free of cost.
5. The offer should be accompanied with a certification that the quoted item/items has/have not been restricted or canalized under ITC (HS) classification of Import & Export items.
6. The authority of person signing the tender, if called for, shall be produced.
7. Instructions/ Operation Manual containing all assembly details including wiring diagrams should be sent wherever necessary in duplicate. All documents/ correspondence should be in English language only.
8. It is expressly agreed that the acceptance of the Stores Contracted for, is subject to final approval in writing by the Purchaser.
9. Part shipment is not allowed unless specifically allowed by the Institute.
10. Inspection/ Test Certificate (if required) should be provided.

**Read and Accepted.**

**(Signature & Stamp of Tenderer)**

**Acceptance**

We \_\_\_\_\_ read and accept the instructions to the tenderer, terms & conditions and all other documents as mentioned in the tender and shall Comply with them strictly.

Name of Bidder \_\_\_\_\_

Signature

Address \_\_\_\_\_

Seal of firm:

\_\_\_\_\_

\_\_\_\_\_

Date:

## Questionnaires A & B

### QUESTIONNAIRE FOR PLANT & MACHINERY

**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 duly 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 contract 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.



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:-

- 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.

**(Signature of Tenderer)**

(\_\_\_\_\_)

1. Full Name & Address of the person signing

(\_\_\_\_\_)

2. Whether signing as proprietor /partners

**PROFORMA FOR PERFORMANCE STATEMENT**  
(For the Period of last 3 years)

**e-Tender Notice - NITJ/PUR/150/18/ e-Tender No.15/2018**

<b>Sr.No.</b>	<b>Order (full placed address of purchaser)</b>	<b>Order No. &amp; dated</b>	<b>Description and Qty. of Stores ordered</b>	<b>Value of Order</b>	<b>Date of Completion of delivery</b>	<b>Has the Equipment/Item been satisfactory commissioned</b>

## Annexure-A

Category-A

### Technical Specification of 3D Printer

<u>Description</u>	
<b>1.0 Purpose of Application</b> 3D Printer using Additive Manufacturing technique should be Laser/non-laser, based on liquid Injection of Photo Polymers with phase change process. The technology is capable of Creating highly accurate and good surface parts suitable for various applications. Specific test certificate to be submitted for whichever material applicable along with the bid.	
<b>2.0 Scope of Supply:-</b>	
1. 3D printer Machine	
2. Support Software	
3. Consumable materials to carry out printing works	
<b>3.0 Pre-Qualification criteria for Bidders:</b>	
<b>3.1 Bidder / Supplier credentials:</b>	
3.1.1 The OEM (Original Equipment Manufacturer) should have registered office in India and with a minimum of 10 years of existence for supply & support of 3D printers (Company profile to be supported along with the bid).	
3.1.2 The OEM should have Experience center in India to demonstrate the machine features & applications.	
3.1.3 The Indian Agent / distributor who is representing the 3D printer should have OEM's (Original Equipment Manufacturer) Authorization to the party.	
3.1.4 The Supplier / OEM need to submit the details of similar machine supplied to the Education Institutes/ Govt. / PSU's / and renowned manufacturers in India.	
<b>4.0 Existing Installations of the equipment:</b>	
The machine models / brands offered should have successful installations in India. List of Installations in India during last 5 years to be furnished with the technical Bid along with the certificate of completion & satisfactory report.	
<b>5.0 Technical Specifications</b>	
Technology	Additive Fabrication Technology 3D printer should be Laser/non-laser, based on liquid injection of Photo Polymers with phase change process. The technology is capable of creating highly accurate and good surface parts suitable for various applications.
Application Range	High definition models and prototypes for proof of concept, functional prototypes, Mold for vacuum casting/investment casting, durability, castability & stability are key factors that we are looking at.
Part Build Size	Minimum part printing size should be X axis 290-300mm or more Y axis 190-200mm or more Z axis 145 X 150mm or more
Printing Materials	3D Printer should support different materials like, - Polypropylene

*Prakash*  
3/10/2018

	<ul style="list-style-type: none"> <li>- Bio compatible Material (with/without sterilization).</li> <li>- Patterns for Casting Applications.</li> <li>- Material suitable for making master of silicone molding/vacuum casting</li> <li>- Transparent Material</li> <li>- Rubber like material</li> </ul>
Layer Thickness	20 microns or better
Operating condition	Office friendly
Build resolution	600 x 600 x 600 dpi or better in xyz
Support Material	Soluble or wash/melt away support system is required
Input file format	STL, OBJ
Software	<p>Printer software with following features:</p> <ul style="list-style-type: none"> <li>- Easy build job setup, submission and job queue management,</li> <li>- Automatic part placement and build optimization tools</li> <li>- Extensive part editing tool</li> <li>- Part stacking and nesting capability</li> <li>- Automatic support generation</li> <li>- Job statistics reporting tools, CAD file splitting.</li> <li>- Multi-user networking</li> </ul>
Material replacement	Hot swapping of material is mandatory.
Materials	12 Kg model & 12 Kg support material to be quoted with machine
Office friendly	Safe to operate in office/lab environment (small lab environments)
Post Processing	<p>Should be automatic with no hand scraping, caustic chemical baths, or Special facilities requirements. Small details should not be damaged/destroyed during post-processing Note : a) Cleaning equipment / Accessories should be supplied as part of the machine</p>
Warranty	<p>3 Year (Print head should also be covered under warranty period i.e. 3 years OR If print heads are not covered under warranty, supplier will provide additional 02 heads along with 01 equipped in machine)</p>
Network Connectivity	Ethernet TCP / IP, 10/100 base T and others
Machine Certification	Machine should be CE Certified.

**6.0 material and Applications Requirements:**

1. Materials should be strong and durable for fit form and functional prototypes.
2. Should be capable of producing complex assemblies.
3. Materials should come in multiple color options.
4. Parts have to be capable of being used as patterns for vacuum, sand and investment casting patterns.
5. Minimum One canister bays each for model and support material.
6. Support material should be soluble / wash-away.
7. Support and Model should be different material.

**7.0 SOFTWARE and PROCESS**

1. Software should be capable of:
  - a. Automatic pre-processing with slicing
  - b. Support generation
  - c. Part packing and nesting
2. Machine and the process has to be clean and which can be installed in a design office setup.
3. The process has to be safe and should not emit harmful radiation, hazardous lasers or toxic fumes.
4. The model materials have to be eco-friendly.
5. Operator intervention to be minimal and has to be unattended lights out operation.

**7.0 Other Terms & Conditions:**

- 7.1 This is a two-part bid. Technical and commercial parts of the quotation should be offered separately in one sealed cover and price bid in a separate sealed cover.
- 7.2 The Offer should be valid for three months from the due date of enquiry.
- 7.3 Installation and commissioning of the system should be done by the supplier.
- 7.4 Onsite training for 3 days
- 7.5 Any software updates for this Machine shall be provided at free of cost during Warranty / AMC period.
- 7.6 Offer should be complete with compliance statement for each of our specifications, offering features, safety features and optional items. Indicating merely 'Yes', 'No' Or 'Okay' in the compliance statement will not be considered. Appropriate parameter (numerical) values should be specified wherever necessary.
- 7.7 The offer should be complete in all respects and the details of the price break up for all the items offered including options and accessories to meet our specifications completely should be provided.
- 7.8 Technical demonstration of the system by authorized personnel may also be arranged if sought.
- 7.9 Original catalogues describing machines features, Specifications and application along with photographs should be supplied. Catalogues to be provided for both machine as well as software.
- 7.10 If required, The System should be offered for pre-dispatch inspection before shipment at manufacturer's warehouse, cost for the same will be borne by the Purchaser.

*Arshad*  
*3/10/2018*

**Dr. Vishal Sharma**  
**Associate Professor**  
**Department of Industrial & Production Engineering**  
For any clarification E-Mail to: [sharmavs@nitj.ac.in](mailto:sharmavs@nitj.ac.in)  
M: 9463010259

## Specifications of Portable Aerosol Spectrometer

Sr. No.	Parameter	Specifications
1	Method of Measurement	Laser Light Scattering Principle
2	Data Presentation	Following data set should be available simultaneously for all measurement on a PC/Laptop <ul style="list-style-type: none"> <li>• PM-10, PM-2.5 and PM-1 simultaneously.</li> <li>• Particle Counts in 25 or more size channels in No. of Particles/Liter.</li> <li>• Particle Mass in 25 or more size channels in <math>\mu\text{g}/\text{m}^3</math>.</li> </ul>
3	Particle size range	$\leq 0.3$ to $> 20 \mu\text{m}$
4	Particle count distribution	25 size channels or more over complete size range. At least 10 size channels for $\leq 2.5 \mu\text{m}$
5	Particle concentration range	0.1 to 100,000 $\mu\text{g}/\text{m}^3$ or more.
6	Particle concentration range (in Count mode)	Up to 2,000,000 particles per liter or better.
7	Operating Temperature	+6 to +38°C or better
8	Sample Air Flow	Between 1 - 2 liters/minute, fixed and auto regulated
9	Rinsing Air	Self-controlled, at each start up, for cleaning of optics.
10	Data Reproducibility	$\pm 4\%$ over total size range or better
11	Power requirement	Should work on rechargeable battery (minimum 5 hours back up) as well as on AC mains supply.
12	Self-test	Automatic, at each start-up
14	Computer Interface	Via RS-232 / USB
15	Analog Inputs	3 nos. 0-10 V signals for meteorological sensors or better
16	Software	Suitable software compatible with Windows 7 upwards (32 or 64 bit OS)
17	Local Display	Local <del>LED</del> Display <i>cta hi</i>
18	Sample Collection	Instrument must have provision for collecting sampled dust on removable filter paper, for further analysis.
19	Data Storage	Detachable memory card to store at least 30 days data (5 min averaged).
20	Weight	Not more than 4 Kgs, including battery, for convenient field use.

Note: The supplier must give the training to the concerned lab staff to use this machine and related software. The supplier may also take care of the maintenance of this machine for one year including the expenses incurred on the executive visit. The supplier may be asked to furnish the list of Institutes like IITs, NITs etc to whom this machine has been supplied early.

*Signature*

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**Dr. S. Bajpai**  
**Associate Professor**  
**Department of Physics**  
**For any clarification E-Mail to: [bajpais@nitj.ac.in](mailto:bajpais@nitj.ac.in)**  
**M: 9888895253**

**Specifications of Portable Aerosol Spectrometer**

Sr. No.	Parameter	Specifications
1	Method of Measurement	Laser Light Scattering Principle
2	Data Presentation	Following data set should be available simultaneously for all measurement on a PC/Laptop <ul style="list-style-type: none"> <li>• PM-10, PM-2.5 and PM-1 simultaneously. ✓</li> <li>• Particle Counts in 25 or more size channels in No. of Particles/Liter. ✓</li> <li>• Particle Mass in 25 or more size channels in <math>\mu\text{g}/\text{m}^3</math>. ✓</li> </ul>
3	Particle size range	$\leq 0.3$ to $> 20 \mu\text{m}$ ✓
4	Particle count distribution	25 size channels or more over complete size range. ✓ At least 10 size channels for $\leq 2.5 \mu\text{m}$ . ✓
5	Particle concentration range	0.1 to 100,000 $\mu\text{g}/\text{m}^3$ or more. ✓
6	Particle concentration range (in Count mode)	Up to 2,000,000 particles per liter or better. ✓
7	Operating Temperature	$+6$ to $+38^\circ\text{C}$ or better ✓
8	Sample Air Flow	Between 1 - 2 liters/minute, fixed and auto regulated ✓
9	Rinsing Air	Self-controlled, at each start up, for cleaning of optics. ✓
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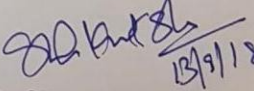
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**Dr. S. Bajpai**  
**Associate Professor**  
**Department of Physics**  
 For any clarification E-Mail to: [bajpais@nitj.ac.in](mailto:bajpais@nitj.ac.in)  
 M: 9888895253

Tender Specification for Rotational Viscometer for Medium Viscosity to Higher Viscosity

Sl. No.	Item	Specification
1	Dynamic viscosity range	<ul style="list-style-type: none"> <li>60 mPa.s to 320 M mPa.s or Better</li> <li>Should be quoted complete spindle Set and DIN Accessories as per ISO 2555 and ISO 3219</li> <li>Accessory should be Quote for Absolute Measurement as per ISO3219 i.e Concentric Cylinder</li> </ul>
2	Temperature Probe	Temperature Probe with $\pm 0.5$ °C Accuracy
3	Spindle Lock System	Easy Lock Spindle Coupling system or similar should be quote. For one-hand removal/attachment of spindles, with quick coupling system.
4	Digital leveling	Automatic Alignment check that should be displayed ion instrument screen. Interlock that Instrument should not allow for measurement unless leveling is passed
5	Rotation Scan	Instrument should have speed scan mode if spindle/speed combination is unknown.
6	Display	Displayed information: Viscosity, Speed, Torque, Temperature, Runtime, Spindle and max. Viscosity, Target Time/Torque/Temperature or better
7	Speed range	<ul style="list-style-type: none"> <li>0.1 rpm to 200 rpm or better</li> </ul>
8	Spindle MOC	Should be made up of 316L corrosive resistance SS
9	Accuracy	$\pm 1\%$ or Better
10	Repeatability	$\pm 0.2\%$ or Better
11	Accessories:	<ol style="list-style-type: none"> <li>Data Acquisition Software and 100ml Viscosity standards</li> <li>Temperature sensor</li> <li>Bath thermostat 20...100°C; <math>\pm 0.03</math>°C; 208-230V/50-60Hz</li> <li>Stand for bath thermostat</li> <li>Stainless bath cover for 600 ml beaker</li> <li>Silicone viscosity standard 600 ml - 11 / 10 mPa.s at 20 / 25 °C</li> <li>Silicone viscosity standard 600 ml - 111 / 100 Pa.s at 20 / 25 °C</li> <li>Measuring system</li> </ol>
12	Communication Interface	USB, PC interface, and Power Connection.
13	Warranty	Standard One Year Warranty
14	Temperature Control	Water bath should be quoted for efficient temperature. (up to 100 Deg C)

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Dr. A.K. Agnihotri  
Head of the Department

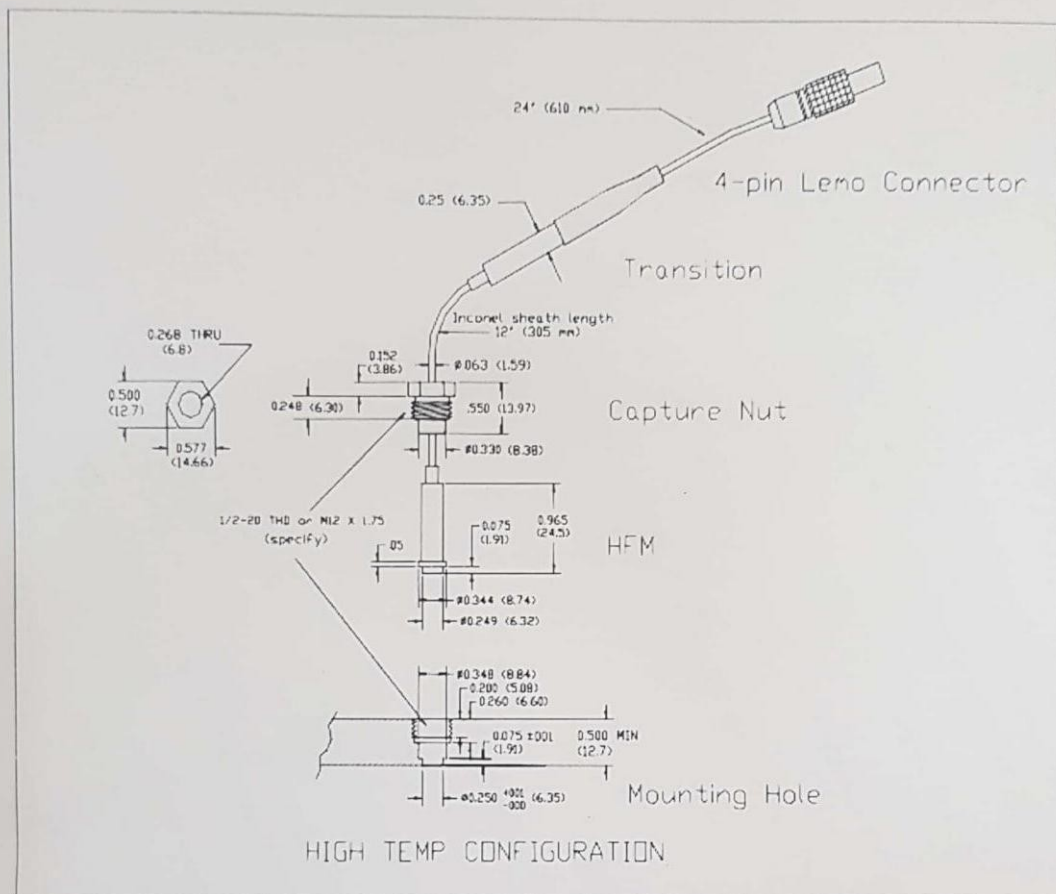
  
13/9/18  
Dr. Shashi Kant Sharma  
Indentor



Technical Specifications for Heat Flux Microsensor (HFM) with water cooling adapter

Specification	Range
Min. Std. Dia.	0.5"
Min. Std. Length	1"
Min. Range*	5 W/cm <sup>2</sup>
Max. Range**	5000 W/cm <sup>2</sup>
Max. Sensitivity	2 mV/(W/cm <sup>2</sup> )
Accuracy	±3%
Repeatability	1%
Time Response (μs) uncoated	17
Time Response (μs) coated	300
Cable	Mineral sheath
Housing material	Nickel
Temperature Sensor	Surface RTD
Metallurgy	NiCr/CuNi
Max. Face Temperature** (°C)	600/400
Minimum Sensitivity (μV/W/cm <sup>2</sup> )	150
Time Response (μs) uncoated (coated)	17 (300)
Max. cable temperature	600°C
Mounting torque	5.5 N-m
Cooling technique	Water cooled adaptor
Water cooling adapter diameter	0.25(I.D), 1.5 inch (O.D)
Water cooling adapter length	0.5 inch

## Technical Specifications for Heat Flux Microsensor (HFM) with water cooling adapter



**Dr. Subhash Chander**  
**Associate Professor**  
**Department of Mechanical Engineering**

For any clarification E-Mail to: [chanders@nitj.ac.in](mailto:chanders@nitj.ac.in)  
M: 9888068332

**TECHNICAL SPECIFICATION OF CNC MACHINING CENTER**

Technology	Quantity	
CNC Programming, Machining & Maintenance Technology	1	CNC MACHINING CENTER

**TECHNICAL SPECIFICATION, CNC Vertical Machining Centre with Industrial Control**

- 3 Axes CNC Vertical Machining Centre with (Fanuc, Sinumerik, Heidenhain) (any one) Control and with option of 8 Station Automatic Tool Changer.
- The machine is provided with widely placed precision LM guide ways for increased rigidity and high accuracy.
- The machine is equipped with cartridge type spindle power with 8 tool arm type ATC, integrated base with coolant tank.

**Travel**

X axis	mm	300
Y axis	mm	250
Z axis	mm	250

**Table**

Table size	mm	500x250
T-Slot	mm	3x14x100
Load on table	mm	80

**Spindle**

Spindle		Direct Drive, Cartridge Type
Spindle nose to table top	mm	105-355
Spindle to Column	mm	290
Spindle nose taper		BT 30
Spindle motor capacity(15 minutes rating parenthesis)	Kw	3.7(5)
Programmable spindle speed	Rpm	100-6000

**CNC detail**

Control System		Imported (reputed)
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**Accuracy**

Positioning accuracy	mm	0.010
Repeatability	mm	±0.005

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## Axis

Axis resolution	mm	0.010
Average positioning variation in VDI/DGQ 3441/JIS B6336-1986 in X/Y/Z	mm	0.010
Axis motor		AC Servo Motor
Programmable feed rate	mm/min	0-5000
Rapid feed X,Y,Z	mm	25mm&10mm C3 Class

## TECHNICAL SPECIFICATION OF CNC TURNING CENTRE

### CNC 2 Axis Slant Bed Lathe Turning center with 8 Station Programmable Turret.

CNC Turning Centre Lathe with Industrial control, Electrical Control Box, Central Automatic Lubrication System, LM Guides for X & Z Axes, 8 Station Programmable Turret, Flood Coolant System of Capacity 80 Liter, 135mm - 3 Jaw Chuck

- Turning Centre two axis productions with 8 station programmable turret.
- The machine built on cast base and bed and offered with Fanuc, Sinumerik, Heidenhain *(any one type)*
- Dynamically calibrated cartridge, spindle Hydraulic Chuck and Tailstock with integrated base.

## CAPACITY

Chuck size (Manual/ Hydraulic)	mm	135
Chuck Type		Hydraulic
Maximum turning Diameter	mm	110
Maximum turning Length	mm	200
Bed	type	45 deg Slant bed
No. of axes	no	2
Swing over waycovers / carriage	mm	286
Swing over cross slide	mm	100
Distance between live centers	mm	250

## ACCURACY

Positioning Accuracy	mm	0.01
Repeatability	mm	±0.005

## SPINDLE

Spindle nose taper		A2-4
Spindle bore	mm	40
Programmable spindle speed	rpm	150 – 4000
Spindle power	kW	3.7 (5.5)

**Dr. Vishal Sharma**  
Faculty In-charge  
Central Workshop

For any clarification E-Mail to: [sharmavs@nitj.ac.in](mailto:sharmavs@nitj.ac.in)  
M: 9463010259

*Vishal*

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27/11/18



CNC detail			
Control system			Fanuc Oi TF
		<b>Turret</b>	
Tool cross section			16 x 16
No. of Station		no	8
Indexing Time for 45Deg / 180Deg		Sec	0.35 / 1.2
Shank Diameter for Boring Bars		mm	25
Axes			
X- axis travel		mm	110
Z - axis Travel		mm	230
Ball Screw X / Z			C3 Class
Programmable feed rate		mm/min	0-10000
Rapid motion Speed & feed rate X/Z		mm/min	10000
Axis motor X / Z Torque		Nm	3.5
Slides		mm	Linear Motion Guide ways
Coolant/Lubrication			
Capacity		L	80
Coolant motor		kW	0.1
Lubrication		-	Automatic
Power source			
Main supply ( $\pm 10\%$ )			415V, 3 Ph., 50 Hz
Stabilizer			3 phase servo type
Machine dimensions			
L x W x H		mm	1700x 1650 x 1900
Weight (approx)		Kgs	1400
Features			
Compatibility / Upgradable			FMS / CIM system

For CNC MACHINE :

Servo Stabilizer 15 KVA, 3 Phase – 1 no.

#### ACCESSORIES

- **Tooling Set**
  - (i) Turning Tool = No.01
  - (ii) Facing Tool = No.01
  - (iii) Threading Tool = No.01
  - (iv) Parting Tool = No.01
- Precision Three Jaw Chuck = No. 01
- Drill Chuck with Taper Sleeves = No. 01
- Boring Head with accessories = No.01

# Three Years Annual Maintenance Contract (AMC)

*Vishal Sharma*

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27/8/18

**Dr. Vishal Sharma**  
**Faculty In-charge**  
**Central Workshop**

For any clarification E-Mail to: [sharmavs@nitj.ac.in](mailto:sharmavs@nitj.ac.in)  
M: 9463010259

**Name of equipment:**

**Real Time Continuous Blood Pressure Beat to Beat recording (non-invasively) System (NIBP System) and should have the option to work individually and also get compatible/interface able with the existing 16-channel biomedical Data Acquisition system available in the lab**

**Brief Specification:-**

The real Time Continuous Non invasive Blood Pressure recording from Human Autonomic research gives you the ability to capture Continuous blood Pressure data over long sampling period easily ,with increase comfort to the subject. Reliably record and monitor trends in response to stimulus and interventions on blood Pressure and heart rate.

**The system should include:-**

It should includes a Human NIBP Controller and a Human NIBP Wrist Unit, Human NIBP Height Correction Unit, three Finger Cuffs (sizes: small, medium), one USB Interface Cable, one Finger Cuff-HCU Box and one Finger Circumference Gauge (Ruler).

**Non-Invasive blood pressure monitoring system**

1. Should be able to record continuous beat-to-beat blood pressure non-invasively from the human subject for long term recording.
2. Should have facility for Height Correction unit
3. Should have facility for online and offline recording & Analysis.
4. Accuracy 1% for Cuff Pressure (within 3 mmHg) and Heart Rate Accuracy [HR(bpm) / 60]%
5. One pairs of each of finger cuffs of small, medium and large sizes.
6. Should have Volume Clamp Technology that providing accurate finger pressure measurement.
7. Must have brachial arterial reconstruction technology that translates the finger pressure into the commonly used brachial arterial blood pressure.
8. The Blood pressure data should be integrated & analysed with HRV data
9. Necessary software for recording and analysis of blood pressure signal. The software should provide hemodynamic parameters from pressure data, wave forms etc.
10. The operating temperature must be within 10- 40°C (50 - 104° F)
11. The operating humidity (non - condensing) should be within 5 – 90%

**General Purpose Amplifier and Software**

1. The System Should be able to record and analyse simultaneously the Pulse, respiration, Bio-potentials like (EEG, ECG, EMG, EOG etc), hand Grip Strength, heart sound, HRV, Static posturography, Peak Analysis, Pulse Transit Time, Wireless ECG, SPO2, GSR, Respiration etc.
2. Facility for ECG leads (I, II, III, aVL, aVF, aVR etc) with real time cardiac axis and vector analysis.
3. The system should have a facility for upgradation facility to record up-to 16 or more channels of raw data.
4. Range:  $\pm 2$  mV to +10 V and sampling rate of 400 KHz (aggregate speed).
5. ADC resolution = 24 bits, on all gain ranges and variable sampling speed on each channel.
6. Expansion Port with Digital output and Digital Input : 8 independent lines, TTL output & input level.
7. Should have software controlled filtering High Pass, Low Pass filters, AC Coupling, Digital filters, band pass filter & Main filters.
8. Display Modes: - Must have Simple Chart View, Scope View, XY View, Zoom View, FFT, Spectrum, averaging view etc.
9. Non-invasive Cardiac output extension which should be highly validated, published methods to give us a running, real-time estimate of Cardiac Output, Stroke Volume and Total Peripheral Resistance from the Non-Invasive Blood Pressure signal.

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10. Software with step by step instructions, protocol and experimental design for performing various experiments in physiology teaching applications.

11. Real time data streaming with Excel, MatLab and other common formats.

#### Transducers

1. **Transducers** :- Pulse, Blood Pressure, Respiration, ECG, EEG, EMG, EOG, Hand Dynamometer and Wireless Herat Rate Variability kit and other accessories for the measurement of the above parameters.

Add on transducer set should include **Qty1 Each**

- Wireless monitoring belts (3 sizes) with ECG, Heart Rate, Breathing Rate, Skin Temperature ,SPO2 and XYZ Accelerometry data with data logging and real time acquisition & Analysis mode.

#### Compatibility

The system should have the option to work individually and also get compatible/ interface able with the existing 16-channel biomedical Data Acquisition system available in the lab. For checking the hardware requirements for compatibility/interfaceability with the existing system as well as its working as individual the company may visit the concerned laboratory at NITJ before quoting. Further in order to verify the compatibility/interfaceability with the existing system as well as to check its working as individual a physical demonstration is necessary to be made at NITJ by the company before processing the case for purchase i.e. submitting, opening of the technical and financial bids etc.

  
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## SPECIFIC TERM AND CONDITIONS

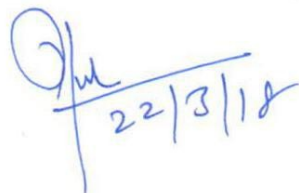
- The warranty shall be for a period of two years. During the warranty period the company shall provide free after sale service and the replacement of any part of the equipment /Item or rectification of defect of the equipment/Item will be free of cost. The above mentioned warranty period of 2 years shall begin only after 60 days of satisfactory and faultless functioning, installation & commissioning of the equipment/item at NITJ premises.
- If the equipment do not function properly due to any reason after installation & commissioning at NITJ Premises with in a period of 60 days and afterwards in the warranty period, it will the responsibility of the supplier to replace/repair the equipment at their own cost.
- Training of two days during installation & commissioning at NITJ and 4 times training during a warranty period of 2 year at NITJ as per NITJ requirement.
- The company will certify that the equipment /Item being quoted is the latest model and spare for the equipment/Item will be available with the company for sail for a period of at least 07 years after warranty period of 2 years and also guarantee that the company will keep the NITJ informed of any updates of the equipment/Item over a period of 09 years.
- The company will also provide the latest compatible software and its updates to be compatible with existing biomedical data acquisition system (available in the lab) to which the said equipment is fully compatible/interface able by the company for 9 years at free of cost.
- All the complaints will be attended by the company within two days of receipt of the complaint in their office. In case there is a delay of more than 2 days in attending/rectifying of the complaint the company shall pay a penalty equivalent to 0.5% of the FOB value of the equipment/item for every week or part there of delay in rectifying the defect.
- The company guaranteed that in case they fail to carry out the maintenance with in the stipulated period. NIT Jalandhar reverses the right to get the maintenance work carried out at our risk cost and responsibility after informing the company.

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All the expenses including excess payment for repair/maintenance shall be adjusted against the performance Bank guarantee. The same shall be recoverable from the company with/without interest in accordance with the circumstances.

- The company tries to repair the equipment/item at NITJ premises itself. However, the equipment /Item will be taken to their site on own expenses in case it is not possible to repair the same at NIT Jalandhar. The company 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 you may undertake to procure the balance of the life time requirements 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.
- The company undertakes to perform calibration after every major repair/breakdown/taking the equipment/item for repair out of NITJ premises.
- The company guarantee to the effect that before going out of production of spare parts will give adequate advance notice so that you may undertake to procure the balance of the life time requirements of Spare parts.
- The company guarantees the entire unit against defects of manufacture, workmanship and poor quality of components.

  
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Dr. B. S. Saini  
Associate Professor  
Department of Electronics & Communication Engg.  
For any clarification E-Mail to: [sainibs@nitj.ac.in](mailto:sainibs@nitj.ac.in)  
M: 9872660337

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Dr. R. K. Sunkaria  
Associate Professor  
Department of Electronics & Communication Engg.  
For any clarification E-Mail to: [sunkariark@nitj.ac.in](mailto:sunkariark@nitj.ac.in)  
M: 9780979984

## Category-H

Description of DG Set, AMF Panel and other material required for the installation of the DG set as given below

Sr.No.	Description	Quantity
1	50 KVA Silent DG Set 3 Phase,415 Volts,50 Hz Frequency,0.8 Power Factor (Lagging) Engine Four Cylinders,Liquid Cooling,80HP Power, Fuel High Speed Diesel,Performance Class of DG Sets ISO8528-5 G2 coupled with Alternator 50 KVA at 415 V ( $\pm 1\%$ ),Insulation H Class ,Dynamically Balanced Rotor,Stator with Double Layer Winding,Telephonic Harmonic Factor <2%,Prime Power Performance with ISO 8528,Complete with Standard Panel, Fuel tank of suitable capacity along with battery.	01
2	Four core copper cable 25mm XLPE Insulated Armoured	150 Mtr
3	AMF Panel Model SKU ELE.AMF.1114204,Wall Mounting,Operating Voltage 180-270 V ,Three Phase,2A Trickle Charger,Maximum Current 100 A ,KVA Rating Upto 62.5KVA <i>or equivalent</i>	<i>23/1/18</i>
4	Supplying and laying of size 63 mm dia (OD 63 mm ID 51mm) <u>DWC</u> HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, <i>or equivalent</i> .	50Mtr
5		

*S*  
*16/11/17*  
Sukhminder Singh  
Sr. Technical Assistant

*EO*  
*16/11/17*  
EO (PD)

### Note:

- The Payment of sr. no. 2 & 4 will be made on actual measurement basis.
- Please quote miscellaneous charges for installation & foundation.

Mr. Harpreet Singh  
Estate Officer (P&D)  
Estate Office

For any clarification E-Mail to: [eo@nitj.ac.in](mailto:eo@nitj.ac.in), [hpsingh@nitj.ac.in](mailto:hpsingh@nitj.ac.in)  
Mob: 9872813073

**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 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 No. \_\_\_\_\_ dated \_\_\_\_\_ (hereinafter called "the order") for supply of \_\_\_\_\_ (here in after called "the Equipment /Item ) to us Messrs**

**(hereinafter called "the supplier") on submission of a Performance Bond to the satisfaction of NIT Jalandhar for the due performance of the said order**

**We, Messrs \_\_\_\_\_ hereby submit the FDR/TDR**

**No \_\_\_\_\_**

**issued by \_\_\_\_\_ (Name of Bank) for \_\_\_\_\_ pledged in favour of Registrar, NIT Jalandhar as performance guarantee amount and hereby irrevocably, unconditionally and absolutely undertake against any loss or damage caused or suffered by NIT Jalandhar by reason of any failure of the supplier to perform or omission or negligence to perform any part of its obligations to the satisfaction of NIT Jalandhar in 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**
- d) The invalidity, irregularity or unenforceability of the order; or**
- e) 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.**

**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 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 of the said order.

We, \_\_\_\_\_ (*hereinafter called 'the Bank'*) at the request of the supplier do, as a primary obliger and not merely as surety, hereby irrevocably, unconditionally and absolutely undertake against any loss or damage caused or suffered by NIT Jalandhar by reason of any failure of the supplier to perform or omission or negligence to perform any part of its obligations to the satisfaction of NIT Jalandhar in terms of the order.

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 owing 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.

**FORMAT FOR MANUFACTURER'S AUTHORIZATION FORM**

To,  
The Registrar  
Dr B. R Ambedkar National Institute of Technology  
Jalandhar

Sub. : e-Tender for “ \_\_\_\_\_ ”.

Dear Sir,

We, \_\_\_\_\_, who are established and reputed manufacturers of \_\_\_\_\_, having factory/office at \_\_\_\_\_, hereby authorize M/s \_\_\_\_\_ [name & address of agents/distributors] to bid, negotiate and conclude the order with you for the above goods manufactured by us.

We shall remain responsible for the tender/Agreement negotiated by M/s

\_\_\_\_\_, jointly and severally. No company or firm or individual other than M/s \_\_\_\_\_ are authorized to bid, negotiate and conclude the order in regard to this business against this specific tender as for all business in the entire territory of India.

We hereby extend our full guarantee and warranty as per the terms and conditions of tender for the goods offered for supply against this invitation for bid by the above supplier.

1. \_\_\_\_\_

2. \_\_\_\_\_

***\*specify in detail manufacturer's responsibilities*** the services to be rendered by M/s \_\_\_\_\_ are as under:

i) \_\_\_\_\_

ii) \_\_\_\_\_

*[Specify the services to be rendered by the agent/distributor]* In case duties of the agent/distributor are changed or agent/ distributor is changed it shall be obligatory on us to automatically transfer all the duties and obligations to the new Indian Agent failing which we will ipso-facto become liable for all acts of commission or omission on the part of new Indian Agent/ distributor.

Yours faithfully,

[Name & Signature] For and on behalf of M/s. \_\_\_\_\_ [Name of manufacturer]

**Note: This letter of authorization should be on the letter head of the manufacturing concern and should be signed by a person competent and having the power of attorney to bind the manufacturer.**

**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 Government or any Organization from taking part in Government tenders for a period of \_\_\_\_\_ years w.e.f. \_\_\_\_\_ to \_\_\_\_\_. The period is over on \_\_\_\_\_ and now the firm/company is entitled to take part in Government tenders.

In case the above information found 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 authorized sign)**

Name \_\_\_\_\_

Address \_\_\_\_\_

**e-Tender Notice - NITJ/PUR/150/18/e-Tender No.15/2018**

**Date of Opening:**

**The Director  
Dr B R Ambedkar National Institute of Technology Jalandhar**

**I/We** ..... **hereby certify that I/We are** established firm of manufactures/authorized agents of M/s.....**with factories at** ..... **which are fitted** with modern Equipment/Item are open to inspection by the representative of the institute. We hereby agree to supply the following items at the price and within the period of delivery indicated below:-

<b>CAT</b>	<b>Description</b>	<b>Specifications for</b>	<b>Rate per unit</b>	<b>GST</b>	<b>Price FOR NITJ</b>	<b>Delivery period</b>	<b>Guarantee / Warranty</b>

1. Please delete whichever is not applicable.
2. It is hereby certified that we have understood the instructions to tenderer and also terms and conditions attached to the tender.
3. This is certified that the rates quoted above are not more than the rates charged from any other Institution/Department/Organization. Further if above quoted item is available on Government e-Marketing (GeM) then the rates charged in this tender are not more than rates available on Government e-Marketing (GeM).
4. We hold this offer valid for acceptance for a period of 120 days.
5. **Earnest money for an amount of equal to ..... is enclosed.**

**Date** .....

**Place** .....

**Signature & Seal of the Manufacturer/Tenderer**



**e-Tender Notice - NITJ/PUR/150/18/e-Tender No.15/2018**

**Date of Opening:**

(To be submitted online only)

Name of the Equipment /Item: \_\_\_\_\_

Name of the Manufacturer : \_\_\_\_\_

Make of the Equipment /Item: \_\_\_\_\_

Model Number : \_\_\_\_\_

County of Origin : \_\_\_\_\_

<b>Sr. No.</b>	<b>Description</b>	<b>Currency/Unit</b>
	Cost of the Equipment /Item ( <b>*FOB value</b> )	
2.	Estimated Packing Forwarding etc.	
3.	Air freight/shipping charges, Insurance charges etc.	
4.	Total CIF value (up to ----- Airport)	
5.	Custom Duty , if any (mention) @ ----- (To be paid by Institute if applicable, against custom duty exemption certificate)	
6.	(Custom Clearance Charges, Loading, transportation, insurance & unloading) up to NIT, Jalandhar (In Rs.) mentioned otherwise treated invalid	
7.	Total cost Delivery at Place (DAP) NIT, Jalandhar	

This is certified that the rates quoted above are not more than the rates charged from any other Institution/Department/Organization.

It is hereby certified that we have understood the instructions to tenderer and also terms and conditions attached to the tender.

**Note:**

- **Taxes and other levies, if any are to be clearly specified in the bid.**

**Signature & Seal of the Manufacturer/Tenderer**

**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 warranty, 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**