



Dr B R AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY
G T Road By Pass, Jalandhar-144011, Punjab (India)

EPABX-0181-2690301 & 453 Fax: 2690320 & 932 website: www.nitj.ac.in email: registrar@nitj.ac.in

Ref. No. NITJ/PUR/127/17/e-Tender No.16/2017

Date:

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Supdt.(P)

Dr. B. R Ambedkar NIT Jalandhar

Email: purchase1@nitj.ac.in



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e-TENDER NOTICE - NITJ/PUR/127/17/e-Tender No. 16/2017

Last Date for Submission of Online bids : 10.12.2017 upto 05:00 PM
Date of Opening of Online Technical bids : 11.12.2017 at 11:00 AM

e-Tenders are invited in two bids system for purchase of Different Equipment required for Various Department of the Institute from manufacturers, authorized distributors/dealers/suppliers. The detailed tender document, terms & conditions and specifications can be downloaded/ seen at website of Institute www.nitj.ac.in or www.tenderwizard.com/NITJ

Only e-tenders will be accepted for more details/clarifications the Bidders may contact Mr. Vijay Kumar on behalf of M/s ITI Limited on mobile No. 8146699878 or e-mail: vijay@etenderwizard.com and may also contact on Chandigarh Helplines: 0172-3934667, 9257209340, 8054628821, Delhi Helpline - 011-49424365.

Registrar



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

e-TENDER NOTICE - NITJ/PUR/127/17/e-Tender No.16/2017

National Institute of Technology, Jalandhar invites tender for purchase of Different Equipment as per detail list available at Annexure – “A” along with Tender Fee & EMD and Processing Fees for the Equipment required for Various Department of the Institute as per details given below:

I	Downloading of e-tender document	Start Date : 14.11.2017 at 03:00 PM End Date : 10.12.2017 upto 05:00 PM
II	Date of submission of e-tender	End Date : 10.12.2017 upto 05:00 PM
III	Physical submission of Tender Fee and EMD	End Date : 10.12.2017 upto 05:00 PM
IV	Opening of Technical Bid (online)	11.12.2017 on 11:00 AM

Detailed Terms and Conditions are available in e-tender document. The bid document can be downloaded from the website of www.tenderwizard.com/NITJ. Complete tender document is available for reference purposes on Institute website 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 and may also contact on Chandigarh Helplines: 0172-3934667, 9257209340, 8054628821, Delhi Helpline - 011-49424365.



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Date:

Detail of Equipment, Tender Fee & EMDs is as under:

CAT.	Item	Qty.	Tender Fee	EMD	Tender Processing Fee (Including GST)
A	3 D Printer	01	Rs. 500/-	Rs.50,000/-	Rs.2,832/-
B	Planetary Ball Mill	01	Rs.500/-	Rs.20,000/-	Rs.1,180/-
C	DSO Inbuilt Function Generator	10	Rs.500/-	Rs.8,000/-	Rs.885/-
D	Lyophilizer (Freezer Dryer)	01	Rs.500/-	Rs.52,000/-	Rs.3,068/-
E	Multipurpose Micro Centrifuge	01	Rs.500/-	Rs.7,000/-	Rs.885/-
F	Coriolis Mass-Flow Meter	01	Rs.500/-	Rs.9,600/-	Rs.885/-
G	Micropump alongwith Motor and Variable Frequency Converter	01	Rs.500/-	Rs.9,600/-	Rs.885/-
H	CCD Camera	01	Rs.500/-	Rs.10,000/-	Rs.885/-
I	Automatic Conveyor Belt Fusing Machine	01	Rs.500/-	Rs.15,000/-	Rs.885/-
J	FTIR-ATR	01	Rs.500/-	Rs.36,000/-	Rs.2,124/-
K	Automatic Chapatti Making Machine	01	Rs.500/-	Rs.10,620/-	Rs.885/-
L	Probe Station (with Temperature Variation)	01	Rs.500/-	Rs.1,64,000/-	Rs.9,676/-
M	Rotary Evaporator with Vacuum Pump and Chiller	01	Rs.500/-	Rs.13,000/-	Rs.885/-

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



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Important Note

1. All corrigenda, addenda, amendments and clarifications regarding this tender specifications or other clarifications will be hosted in the website www.nitj.ac.in 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 following working day at same time.
3. 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.
4. **Tender fee of Rs.500/- (Non- refundable separate for each category) in the form of DD favoring Director, D R B R Ambedkar NIT, Jalandhar**
5. **EMD (refundable separate for each category) in the form of DD favoring Security- A/c, DR B R Ambedkar NIT, Jalandhar.**
6. **Both EMD and Tender fee** be submitted as per dates mentioned in schedule, failing which e-bids will not considered. The Processing fees for each category will paid through online mode only to M/s ITI Limited, New Delhi.



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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 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 with 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 failing which no tender will be submitted.
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 the relevant documents required as per Terms & Conditions of the tender, reply of the Questionnaire of Plant & Machinery and other required document of the Tender & Annexure must be uploaded, failing which their bids may be rejected and will not be considered.**
5. **The scan copy of the terms & condition of this tender document duly signed and stamped must be uploaded, failing which their bid may be rejected and will not be considered.**
6. NIT JALANDHAR, will not be responsible for any delay in online submission of bids due to any reason whatsoever.
7. **Bidders should also send the scanned copies of Tender fees and EMD as specified in the tender documents with online technical documents. EMD in the form of a Demand Draft in favor 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 favor of the Director, Dr B R Ambedkar NIT, payable at Jalandhar (Non- refundable separate for each category) should be submitted to the following address before opening of the Technical Bid as per given in the schedule time 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).
8. The details of EMD specified in the tender document should be same as submitted online (scanned copies). Otherwise tender will be rejected summarily.

Read and Accepted.

(Signature & Stamp of Tenderer)



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9. The conditional bids shall not be considered and will be out rightly rejected.
10. The Financial Bid through e-tendering of only those bidders shall be opened who will qualify in the technical bid and are 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.
11. Telex, Fax, e-mail and other incomplete offers are liable to be summarily ignored.
12. 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 amendment.
13. The amendment will be published on Institute website only. In order to afford prospective tenderer(s) reasonable time in which to take the amendment into account in preparing their bid, the institute may, at its discretion extend the deadline for the submission of tender.
14. **The supplier must support the quoted specification with the help of original printed manuals / catalogue of the Equipment /Item and the tenderer should highlight original brochure.**
15. 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) whom offer will not found according to required specification/ lowest will be released after finalization of Technical Bids/ Lowest Bid/Purchase.
16. The Format of Performance Bank Guarantee bond or Performance Bank Guarantee issued by the bank as per the format given in **Annexure "B" & "C"**.
17. Delivery time is the essence of the contract and must be met with.

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18. Specifications can be changed depending upon suitability after discussion. Nearest specifications/better specifications can be considered. In case of deviation complete justification should be furnished with proper documents.
19. The Director may accept a tender in part or whole of the quantity offered, reject any tender without assigning any reasons, may not accept the lowest or any doubt dispute or whatever may be the decision of the Director shall be final in this regard.
20. The offer shall be kept valid for 90 days.
21.
 - 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.
22. The supplier will be responsible till the entire stores contracted for, arrive in good condition at destination.
23. The tenderer should not have been debarred and/ or blacklisted by any Central Government/ or any State Government Department(s) supported by the affidavit as per format given in **Annexure-“E”**.
24. If any information furnished by the bidder is, at any stage found to be incorrect, false or fabricated, the purchaser shall have the absolute right to forfeit EMD and security deposits, in addition to cancellation of contract, forfeiting the warranty/performance guarantees and other action in accordance with law, such as black-listing, risk & cost 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 whether these are qualify the essential eligibility criteria (if any mentioned), whether the tenderer has submitted the EMD & Tender fee, whether any computational errors have been made, whether all the documents have been properly filled, whether all the documents as mentioned or required to submitted with technical bid are submitted and whether bids are completed and generally in order. Whether, the specifications, Make/Model, Catalogue of quoted Equipment /Item as per requirement tender specifications, Authorization of Dealer / Distributor/ Exclusive Agent certificate from manufacturer in order etc. Detail sales & service policy of equipment / item during warranty period and after warranty period, location of their authorized service centre etc.

After evaluation of technical bid(s), a list of the qualifying tenderer (s) shall be made, short-listed tenderer(s) shall 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 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) e- Financial bid for those bidders who are quoting the rate in Indian Rupees should be offered the rates as per the format tender as **Annexure “F” (online only)**. **Detail bill of material/quantity is to be provided alongwith the price breakup of each item as per requirement of the tendered specification on the letter head of the bidder duly signed and stamped. Scanned copy must be uploaded.**
- b) The financial bid for those bidders who are quoting the rate in foreign currency offered the rates as per the format enclosed with tender as **Annexure “G” (online only)**. **Detail bill of material/quantity is to be provided alongwith the price breakup of each item as per requirement of the tendered specification on the letter head of the bidder duly signed and stamped. Scanned copy must be uploaded.**
- ❖ **Note: The quoted amount as filled in the Annexure(s) of financial bid and detail bill of material/quantity provided alongwith the price break up of each item as per requirement of tender specifications on the letter head of bidder should be tallied and same as per price quoted in financial bid, otherwise bid will be treated invalid.**
- c) Conversion to Single Currency: To facilitate evaluation and comparison, the purchaser 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 and Education Cess will be paid extra as applicable. However present chargeable taxes must be mentioned in the offer.

ARBITRATION:

In case of any dispute or difference arising out of or in connection with the tender conditions / job order and 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.

Read and Accepted.

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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.
2. Price list for spare parts/consumables parts required after warranty or otherwise may be provided on the separate letter head of the bidder duly signed and stamped. Scanned copy must be uploaded.
3. a) For Foreign Import goods/ Equipment the rates will be evaluated on DAP basis as per annexure-G. 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 upto NIT, Jalandhar. Institute will provide all the documents regarding custom clearance.
4. In case some of Items of required with equipment is to be provided with indigenous make accessories/components the same should be clearly mentioned on separate letter head of OEM alongwith the Cost if any, which will be the part of price bid. If no rates mentioned for said accessories/components, the rates should be treated inclusive. Scanned copy must be uploaded duly signed and stamped.
5. Where the Equipment /Item is 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.
6. 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 Price Bid clearly.
7. The rate should be quoted excluding Custom Duty. The tenders claiming Duty as extra should specifically give the present rate of Custom Duty as payable against each Equipment /Item.
8. GST or any other chargeable duty where applicable must be specifically mentioned, failing which no tax or duty will be allowed at subsequent stage.
9. All items shall be indicated both in words as well as in figures. Where there is difference between amount quoted in words and figures amount quoted in words shall prevail.
10. 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& working report of the Equipment /Item/ and receipt of Performance Bank Guarantee.

Read and Accepted.

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b) For Import Equipment /Item : 90% of the DAP value will be released, through irrevocable Letter of Credit (LC)/ Wire Transfer/ foreign draft/ draft at sight document. 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. Balance 10% of the DAP value will be released after inspection, installation & training of the Equipment /Item, Receipts of actual freight & insurance (limited to the estimated amount as mentioned in the Supply Order) and Performance Bank Guarantee.

Warranty: Rates should be quoted with comprehensive warranty. Beside 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.

3. Training: In house training (where applicable) after the installation and commissioning of Equipment /Item is required.

4. Delivery: Delivery as 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 fail to deliver or dispatch any consignment within the period prescribed for such delivery stipulated in the supply order the delayed consignment will be 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.
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.

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

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

7. 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.

Read and Accepted.

(Signature & Stamp of Tenderer)



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9. 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.

10. Detail about the service center for the quoted Equipment /Item in India maybe 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 all charges.
5. The offer should be along with a duly 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 induplicate. 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 agreed to by us.
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 as mentioned in the tender and shall Comply with them strictly.

Name of Bidder _____

Signature

Address _____

Seal of firm:

Date:



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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 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 for by you or that you should arrange to provide such facilities simultaneously.
- 3. Please indicate that you guarantee that before going out of production of spare parts you will give adequate advance notice to the purchaser so that the later may order his requirements of spares in one lot ,if he so desire.
- 4. Please indicate that you further guarantee 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 procedure 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 or an agreed period.
- 6. Status:-
 - a) Indicate whether you are ISU or SSI
 - b) Are you registered with DGS & D/ 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 DGS&D/ Government e-Marketing (GeM) in 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



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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



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

e-Tender Notice - NITJ/PUR/127/17/e-Tender No.16/2017						
Sr. No.	Order (full placed address of purchaser)	Order No. & dated	Description and Qty. of Stores ordered	Value of Order	Date of Completion of delivery	Has the Equipment/Item been satisfactory commissioned

Signature and seal of Manufacturer/Tenderer



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Annexure - A

Category 'A'

Specifications of 3D Printer:-

1.0 Purpose and Application:

3D printer using Additive Manufacturing technique should be 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.**

2.0 Scope of Supply:

1. 3D Printer Machine
2. Support Software
3. Consumable materials to carryout printing works

3.0 Pre-Qualification criteria for Bidders:

3.1 Bidder / Supplier Credentials:

- 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 centre 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.

4.0 Existing Installations of the equipment:

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.

5.0 Technical Specifications:

Technology	An office friendly, Additive Fabrication Technology 3D printer should be 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 290 x 190 x 140 mm or bigger.

Ashtal
3/11/17



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Printing Materials	<p>3D Printer should support different materials like,</p> <ul style="list-style-type: none"> - PP Like & Bio compatible Material (with/without sterilization). - Patterns for Casting Applications. - Material suitable for making master of silicone molding/vacuum casting. - Transparent Material - Flexible rubber like material
Layer Thickness	40 microns or better
Operating condition	<p>Temperature : 18 - 25 °C</p> <p>Relative Humidity : 30 - 70% RH</p>
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 must support following features:</p> <ul style="list-style-type: none"> - Easy build job setup, submission and job queue management, - Automatic part placement and build optimization tools - Extensive part editing tool - Part stacking and nesting capability - Automatic support generation - Job statistics reporting tools, CAD file splitting. - Multi-user networking
Material replacement	Hot swapping of material is mandatory.
Materials	10 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.</p> <p>Small details should not be damaged/destroyed during post-processing</p> <p>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</p> <p style="text-align: center;">OR</p> <p>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.

Arshad
3/11/17



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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 colour 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.

Chahal
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- 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.

Vishal
3/11/17

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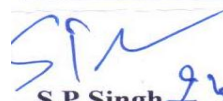
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Category 'B'

Specifications of Planetary Ball Mill:-

Technical Specification of Planetary Ball Mill

S.No.	Specifications
1.	Vendor has to quote following items: I. Planetary Ball Mill /High Energy Grinder= 1 No. II. Grinding jar of Stainless steel 500 ml capacity= 1 No. III. Safety closure device for 500ml grinding jar= 1 No. IV. Aeration lid for 500ml grinding jar (For Inert Atmosphere) = 1 No V. O-ring for 500ml grinding jar= 5 No VI. Grinding jar of Stainless steel 80 ml capacity= 1 No. VII. Safety closure device for 80 ml grinding jar= 1 No. VIII. O-ring for 80ml grinding jar= 3 No IX. Stainless steel Grinding Balls 12 mm Ø= 100 No. X. Stainless steel Grinding Balls 5 mm Ø = 2000 No. XI. Stainless steel Grinding Balls 2 mm Ø = 500 gm (approx. 110 ml) XII. Tooth belt= 1 No.
2.	The grinder shall be capable of grinding (or mixing, homogenizing, colloidal milling, mechanical alloying) of soft, hard, brittle or fibrous materials in vertical axis.
3.	Grinding environment must have the capability of operating in both dry and wet conditions with inert gas environment.
4.	Final fineness should be less than 1 µm for dry grinding & less than 0.1 µm for colloidal grinding.
5.	Grinding station should be of single stage with two stacking bowls facility. The speed ratio should be in the range of 1:-2.
6.	The jars shall be capable of rotating at high speeds greater than 1000 rpm without spilling / leakage of the powders.
7.	It shall be possible to continuously increase the speed of rotation of the base plate and the bowls. The base plate shall have a rpm range of 100/ min – 650/ min.
8.	Programmable microprocessor controller should have the facility of programming via a graphics display with 1-button operation for speed and grinding time.
9.	Power failure backup that ensures of storage of remaining grinding time.
10.	The rotating parts shall be fully enclosed and a safety locking system be provided such that the motor can be started only if the enclosure is placed firmly in position.
11.	Safety slider should be there to stop machine any time if clamping loose while running.
12.	Protection code- IP 30
13.	The instrument must meet the CE /international safety standards


S P Singh
Professor




23.6.17

Dr. S. P. Singh

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Category 'C'

Specifications of DSO Inbuilt Function Generator:-

Technical Specification of Digital Storage Oscilloscope with in- built Function Generator

Sr. No	Parameter	Specification
1	Bandwidth	70 MHz or better
2	Number of Channel	2
3	Coupling	AC, DC
4	Input Impedance	Selectable: 1 M Ω or better
5	Vertical Sensitivity	500 μ V/Div to 10 V/div or better
6	Vertical Resolution	8 Bits or better
7	Display	\geq 7 inch or better
8	Digital Voltmeter and Frequency Counter	Digital voltmeter and 5 – digit frequency counter upto scope bandwidth should be available or better
9	Automatic Measurement	More than 20+ automatic measurement function should be available alongwith math function, FFT plot with dBV Vs frequency should be available
10.	Education Kit	Different types of training signal should be available with lab guide, tutorials and content on Oscilloscope fundamentals
11	Function Generator	20MHz function Generator with 20Vpp Square, Pulse Ramp & 12Vpp Sine wave. With AM, FM & FSK modulation feature should be available. The feature to plot the gain Vs phase plot should be available with built – in WaveGen to sweep from 20 Hz up to 20 MHz or better
12	Segmented Memory and Limit Testing	Should be available
13	Operating Temperature	Operating: 0 to 50 $^{\circ}$ C or better
14	Passive Probes	2 Passive Probe should be provided with oscilloscope and have selectable 10:1 and 1:1 attenuation or better.
15	Future Upgradable features	I 2 C, UART, CAN and LIN Option should be available (Optional)
16	PC Connectivity and Software	USB connectivity and software should have feature to control & visualize multiple measurement simultaneously and data logging upto 1-hour or better.
17	Warranty	Should have standard 3 Years warranty or better

B. R. Raj 11/9/17

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Specifications of Lyopphilier (Freezer Dryer):-

Specification of Lyophilizer (freeze dryer)

1. Shelf System

- Shelf area = 0.4m²
- High capacity Stoppering Pressure = 2ml Vials
- Shelf Temperature Range = -60 to +65⁰C
- Shelf Size = 10'' x 18''

2. Condenser

- Internal Condenser with Exposed Coil Design
- Hot Gas Defrost
- Condenser Temperature = -80 degree Celsius
- Condenser Capacity = 8 Liters

3. Refrigeration

- Highly reliable Compressors
- Cascade Design
- Air Cooled
- CFC Free refrigerants

4. Vacuum

- Pirani based Vacuum Sensor
- Vacuum Level control
- 160 LPM two Stage Vacuum Pump
- Ultimate Vacuum = 10 mT
- Vacuum Control = Automatic

5. Cabinet

- Cabinet Size = 35'' W x 46'' D x 48'' H
- Power Supply = 230/50Hz/1Phase

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Specifications of Multipurpose Micro Centrifuge:-

Multipurpose Micro Centrifuge

- Automatic rotor recognition
- Centrifuge with capacity maximum of
 - ✓ 48 x 1.5/2ml, 24 or more Spin Columns
 - ✓ 16 or more 5ml tubes and
 - ✓ 6 or more 15/50ml tubes.
- Foil keypad
- Stores up to 50 routine programs
- Automatic opening of Lid after the completion of run.
- Low access height: 25cm
- Maximum speed: 16000 - 17500rpm
- Maximum RCF: 30,000 x g or more
- Acceleration time to max.rpm: <14 s
- Braking time from max.rpm: <15 s
- Capacity to accommodate two number of MTP, PCR and Deep well Plates.
- Fixed -angle rotor including Aerosol tight and Quick Lock sealing Lid for 1.5ml/2ml tubes.
- Instrument should be certified.
- Power consumption should be ~500W
- IQ, OQ certificates should be provided at the time of installation.

Should be supplied with below mentioned rotors

- Fixed angel Metallic autoclavable aerosol tight Rotor Maximum capacity of 48 x1.5ml/2ml tubes with 12,500 rpm/18,000g or more.
- Fixed angel metallic autoclavable rotor for 6 x 5/15/50ml tubes with 7500rpm/7500g or more.

(Handwritten signature)
26/5/18

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Specifications of Coriolis Mass Flow Meter:-

1. Coriolis Mass Flow meter

Technical Specifications of the equipment:

1.	Parameter	Units	Description	
2.	Quantity		01	
3.	Mass flow rate	Kg/hr	12 to 300	
4.	Fluid type (Liquid Coolant)		HFE-649 Novec. Engineered Fluid (3M)	Nanofluid TiO ₂ (maximum 10% concentration by Volume in water)
5.	Absolute viscosity of the fluid	cP	0.64 cp at 25° C	5 cp at 25° C
6.	Pressure range	Kg/cm ²	0-3	
7.	Working temperature	°C	25 to 70	
8.	Accuracy of flow rate of liquid		0.2%	
9.	Repeatability		0.05%	

Note: Catalogue of specifications must be attached

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Category 'G'

Specifications of Micropump alongwith Motor and Variable Frequency Converter:-

3. Micropump along with motor and variable frequency converter

Technical specifications of the equipment:

1.	Mass flow rate	40-240 Kg/hr	
2.	Quantity Required	01	
3.	Fluid type (Liquid Coolant)	HFE-649 Novec. Engineered Fluid (3M)	Nanofluid TiO ₂ (maximum 10% concentration by Volume in water)
4.	Absolute viscosity of the fluid	0.64 cp at 25° C	5 cp at 25° C
5.	Differential Pressure range	0-8 Kg/cm ²	
6.	Working temperature	(25 to 70) ° C	
7.	Link with desktop	USB	

Note: Catalogue of specifications must be attached

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Specifications of CCD Camera:-

**CCD Camera
(Technical Specifications)**

Type of sensor: CCD
Resolution (h x v): 1392 x 1040 pixel (normal)
800 x 600 pixel (center ROI)
Pixel size (h x v): 6.45 μm x 6.45 μm
Sensor format / diagonal: 2/3" / 11.14 mm
Shutter mode: global (snapshot)
MTF: 77.5 lp/mm (theoretical)
Full well capacity: 16 000 e-
24 000 e- (binning)
Readout noise: 5 .. 7 e- rms @ 12 MHz (typ.)
6 .. 8 e- rms @ 24 MHz (typ.)
Dynamic range: 2 667 : 1 (68 dB)
4 000 : 1 (72 dB, binning)
Quantum efficiency: 62 % @ peak
Spectral range: 290 nm .. 1100 nm
Dark current: 1 e-/pixel/s @ 23 °C
DSNU: 2 e- rms
PRNU: < 1 %
Max. frame rate: 7.3 / 13.5 fps (12 / 24 MHz, normal)
11.7 / 21.6 fps (12 / 24 MHz, center)
Exposure/shutter time: 1 μs .. 60 s
Dynamic range A/D: 14 bit
A/D conversion factor: 1.0 e-/count
1.5 e-/count
Pixel scan rate: 12 MHz / 24 MHz
Pixel data rate: 19.5 Mpixel/s
Binning (hor x ver): 1 x 1 .. 4 x 4
Non linearity: < 1 %
Smear: < 0.002 %
Anti-blooming factor: > 400 (standard 100 ms exposure)
4 (NIR boost 100 ms exposure)
Trigger input signals: software / TTL level
Trigger output signals: 3.3 V LVTTTL level
Data interface: USB 2.0
Operating temperature: + 10 °C .. + 45 °C
Operating humidity range: 10 % .. 80 % (non-condensing)
Storage temperature range: - 20 °C .. + 70 °C
Optical interface: C-mount
CE certified: yes

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Category 'I'

Specifications of Automatic Conveyor Belt Fusing Machine:-

Subject: Specifications of “Fusing Machine” for Garment Manufacturing Lab

The detailed technical specifications of required machine are as follows:

Specifications	Range
Maximum Temp.	195° C
Maximum Pressure	6.04 Kgf/cm
Controls	LED display, simple operation
Heating Time	6 – 28 sec
Working Width	600 mm
Max Belt Speed	10.2 m/min
Heater	8.4 KW
Applications	Bonding fusing with fabric layers, fusing two layers of fabric, cuff, collars, plackets, jackets, skirts, denim etc


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Lab Incharge, GMT Lab

Dr. Vinay Midha

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Specifications of FTIR-ATR:-

Minimum Technical Specifications for FT-IR Spectrometer

1. The FT-IR will be used for the analysis of powder, liquid, Gel & Paste samples
2. It must have a scan range of 6,000-500 cm^{-1} or more with ZnSe beamsplitter only.
3. Spectral resolution must be 0.8 cm^{-1} or better.
4. Wavenumber accuracy of at least $\pm 0.01 \text{ cm}^{-1}$ or Better
5. Signal-to-Noise Ratio: 50,000:1 or better.
6. Interferometer must be permanently aligned and highly stable.
7. All optics and mirrors must be gold coated only.
8. System should have DLATGS/DTGS detector.
9. The instrument should be connected with computer through Ethernet cable and should indicate whether the source, laser & other parts of instrument are operational.
10. Critical components must be checked prior to every scan.
11. The ability to automatically recognize accessories is essential.
12. System must be quoted along with Diamond ATR Accessory to analyze all type of sample like Powder, Liquid, Gel & Paste without any sample preparation.
13. Software – should be Windows based system with facilities like Instrument control, Basic and advanced data manipulation routines, Spectral calculator, quantification etc.
14. System should be Quoted with Diamond ATR to analyze Polymer samples and Black Samples.
15. System should be Quoted with Compatible PC & Printer.
16. System must have 10 years warranty on interferometer and 5 year warranty on both laser & source.
17. System must have minimum warranty of 1 Years for complete instruments.

credibility: Similar installations of this kind should have been made by company in recognized research institute/university in India and provide the user's list for the same.

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Specifications of Automatic Chapatti Machine:-

Specification for Automatic Chapatti Making Machine

Type-Automatic Chapatti Making Machine Roller Model (Peda Type) with separate Oven and Mechanical Peda Making Machine.

1. Body-Stainless Steel
2. Parts of machine
 - (a) One Peda making machine and one Rolling Machine fitted with one motor of 1 HP single phase and One gear box
 - (b) Second Rolling Machine and Baking Oven fitted with One Motor of 1 HP single Phase and gear Box
3. Capacity to adjust chapattis – should be able to adjust chapattis of size 4" to 6" of any weight and thickness
4. Capacity 1000 -1200 Chapattis/hour
5. All the areas where the chapattis will touch should be of food grade.


Warden MHB-Mess


Chief Warden


Supdt. (P)


4/4/16

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Specifications of Probe Station:-

Probe Station with Temperature Variation

This Wafer Prober will be primarily used for IV-CV characterization.

Also must have following necessary features:

- a) **Chuck:** 150mm Vacuum chuck for Triaxial measurement including three additional Auxiliary chucks(with two having vacuum holding system) with integrated Force-Sense terminals
Main chuck must hold wafers from 50mm to 150mm while Auxiliary chuck hold up to 18mm x 26mm each with 3 vacuum switch unit.
Chuck surface: Planar with 0.4 mm diameter holes in centric sections
The X-Y movement capability of 150 mm x 150 mm.
Z movement should be adjustable up to 10mm and with 3mm contact/separation stroke.
Theta : 360 degrees
Planarity of chuck should be $\leq \pm 5 \mu\text{m}$.
90mm Roll out chuck stage for easy loading and unloading wafer/DUTs
Precise X/Y positioning with $< 5 \mu\text{m}$ resolution.
- b) **Platen Movement:** Manual. Course and fine platen lift up to 40mm with minimum contact /separation stroke of 0.2mm with a repeatability of 1um minimum.
Universal platen: space for minimum four micro-positioners and up to 6 nos. at a time
- c) (future upgradable for probe card holders as well). Space for up to six to eight probe positioners can be accommodated.
- d) **Substrate Size:** Characterizing on 1x1 inch substrates **up to 6 inch diameter** wafers/ substrates.
- e) **Probe-positioners:** Vacuum base probepositioners . Four (4) nos.
for probing transistor devices or simple circuits. The pad size for device/circuit probing can be **5 micron x 5micron or smaller**. The probe positioners must have X, Y, and Z movement at least 12.5 mm / 12.5 mm / 12.5 mm. Feature resolution should be equal or better than 1 microns.It should also include suitable probe arms and coaxial and triaxial cables with tip holder.



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- f) **Microscope:** Should be mounted on a microscope bridge with xy movement of 50mm x 50mm and pneumatic z tilt-lift. Should Include a 15 to 400 X magnification microscope and also connected with digital CMOS camera with at least 3MP to see on computer screen. The CCD should come with software capable of viewing and saving of pictures and video. It should be LASER cutter and camera ready with suitable illumination system.
- f) Optional Shielding/Dark box with a provision of emergency light inside can be included.
- g) A box of 10 nos. of probe tips of 0.6 um and 1.0 um radius or around in Tungsten materials, to be provided
- i) Measurement capability down to the noise floor capability of instruments, **few pA of current or better**. Voltage of the order of mV. Capacitance of the order of pF or better. **Company must provide test/ calibration substrate for measurement calibration and training.**
- j) Vibration isolation solution to be provided to minimize pad damage.
- k) Future Upgradable to RF application for upto 65 GHz.
- l) System should be ready for thermal probing from +30 degC to +300 degC. including precise thermal chuck and temperature controller. Temperature resolution must be 0.1 degrees C. Thermal chuck should include 2 Triaxial connector (Force/Sense) and one Coax to Triax adapter. Proper chuck isolation and other necessary features of XYZ and Theta movements as mentioned above.
- m) Also quote probe tips of 0.1um radius or equivalent in tungsten material (optional)
- n) Please quote other relevant/optional accessories required for proper functioning. Also a set of tools and tweezers to be quoted for a smooth handling of probe station.
- o) Vibration isolation table, if not covered in basic system.
- o) The vendor should be able to train the users and successfully demonstrate the use of probe station for electrical characterization.
- p) Standard configurations will be required. **NO CUSTOM BUILT SYSTEMS WILL BE ENTERTAINED.**
- q) Parent company should be an established company with good number of installations (at least 10 nos.) and after sales support in India as well.
- r) Proper Training of Probe station after installation in the lab.
- s) 3 year warranty of hardware and software

(Handwritten signatures and initials)
B. K. J. A. all
2/2

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Specifications of Rotary Evaporator with Vacuum Pump and Chiller:-

Specifications of Rotary Evaporator with Vacuum Pump and Chiller (Quantity-01)

1. The Rotary Evaporator should have vertical condenser having double spiral glass coil.
2. The vacuum seal/gasket must be made of chemical resistant material (TEFLON/PTFE) and should have at more than 3 year of life.
3. There should be digital display for RPM and the rotation speed should be upto **280 rpm** for the fast evaporation of high boiling organic solvents like DMF, DMSO etc.
4. It should be Motor lift or Manual hand lift (Jack function should have stepless manual jack function).
5. Evaporation capacity should be more than 20ml/min
6. The rotary evaporator should have feature of rotation in one direction only and should contain DC Brush less motor
7. It should have receiving flask of 1L capacity (round style) and sample collection/evaporation flask of 1 L capacity (pear style)
8. It should also contain digital water bath with temperature range from ambient temperature to 90°C or more for the fast evaporation of high boiling organic solvents like DMF, DMSO etc. The digital water bath must have high accuracy of temperature. The shielded thermostatic bath should have automatic over heat cut-off protection system. The heating bath should have efficient space to accommodate evaporating flasks upto 1 Litre capacity. The water bath should have heater of high capacity and the Temperature control in water bath should have Microprocessor based control.
9. The equipment should be able to work at 220 V AC
10. One compatible **oil-free vacuum pump** should also be provided with Rotary evaporator which could achieve **ultimate vacuum < 2mbar** for the fast distillation/evaporation of high boiling solvents such as DMF or DMSO at low bath temperature.
11. The diaphragm pump must be made of chemical resistant material and preferably should be made of Teflon/PTFE
12. The Suction capacity/Exhaust flow speed must be high for fast evaporation of solvent
13. One inbuilt or separate manual **vacuum controller** should also be provided with oil-free vacuum pump to control the vacuum
14. The vacuum pump must have life of more than two year
15. One compatible large **chiller**/Rotachill large/Low temperature circulator/Cool Ace should be provided with Rotary Evaporator which must have temperature control range upto -20°C and should have high temperature stability and accuracy at -20°C during evaporation of solvent
16. The chiller/ Low temperature circulator should have enough capacity to cool two/three number of rotary evaporators with high temperature stability
17. The chiller should have cooling capacity of -10 °C at 650W at room temp. of 35 °C
18. The low temperature circulator should have **digital display** for Temperature control
19. The cooling coil material should be made of Copper with Nickel coating or better material having high durability and strength
20. The low temperature circulator should have various safety features like Breaker for leakage and excess current, overload relay for maintaining circuit, circulating pump protection, self check function for temperature. The controller refrigeration unit should be air cooled
21. The Low temperature circulator should have internal bath capacity of 12-14 Litre
22. The circulating pump should have flow speed upto 10L/min.
23. The good quality tubing with insulating material for connection with two rotary evaporators along with connecting tube should also be provided
24. For the smooth functioning of instrument some essential spares should also be provided along with instrument and their prices must be included in quotation. The spares include glass wares (vertical glass condenser-2, 1L receiving flask, rotary joints, vacuum tube, capillary feed tube), electronic part/ digital board, joint clips, water bath, manual jack system, DC motor, teflon vacuum seal-2, fan of chiller.

Dr Virender Singh



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Terms and Conditions:

1. The rotary evaporator, vacuum pump and large chiller should be of same Make/Supplier and compatible with each other.
2. Two year comprehensive warranty after installation for rotary evaporator, vacuum pump, vacuum controller and chiller and one year free services after warranty should be provided.
3. The instrument is urgently required so it should be delivered within 8-9 weeks or before
4. Payment after installation, inspection and demonstration.
5. Installation and demonstration must be Free of Cost
6. All prices should be quoted at NIT Jalandhar (DAP or FOR) including all kind of charges/taxes.
7. The annual AMC charges after three year of purchase period should be intimated as optional requirement. However, these AMC rates should not be included in the rates quoted for the said equipment.

Dr. Virender Singh

Assistant Professor

Department of Electronics & Communication Engineering

For any clarification E-Mail to: khoslaak@nitj.ac.in

M: 9888068332



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Annexure: 'B'

FORMAT FOR PERFORMANCE BOND/GUARANTEE

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

In consideration for "The 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

b) The invalidity, irregularity or unenforceability of the order; or

c) Any other circumstances which might otherwise constitute discharge of this guarantee, including any act of omission or commission on the part of NIT Jalandhar to enforce the obligations by the supplier or any other person for any reason whatsoever.

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

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

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

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



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Annexure-'C'

FORMAT FOR PERFORMANCE BOND (BANK GUARANTEE)

In consideration for the Registrar, National Institute of Technology Jalandhar, (*hereinafter called NIT Jalandhar*) having agreed to release the payment of net value as per terms and conditions of a concluded Order 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



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Annexure: 'D'

FORMAT FOR MANUFACTURER'S AUTHORISATION 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 letterhead of the manufacturing concern and should be signed by a person competent and having the power of attorney to bind the 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 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 _____



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Annexure-‘F’

e-Tender Notice - NITJ/PUR/127/17/e-Tender No.16/2017

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 fitte**d 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:-

CAT	Description	Specification for	Rate per unit	Price FOR NITJ	GST/ Custom	Delivery period	Guarantee / Warranty

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 90 days.
5. **Earnest money for an amount of equal to is enclosed.**

Date

Place

Signature & Seal of the Manufacturer/Tenderer



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Annexure: 'G'

e-Tender Notice - NITJ/PUR/127/17/e-Tender No.16/2017

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 : _____

Sr. No.	Description	Currency/Unit
1.	Cost of the Equipment /Item (* FOB value)	
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



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Annexure: 'H'

CERTIFICATE OF WARRANTY

- 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** 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 waive 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