

G T Road By Pass, Jalandhar-144011, Punjab (India) EPABX-0181-2690301 & 453 website: www.nitj.ac.in email: registrar@nitj.ac.in

Ref. No. NITJ/PUR/CY/75/20/e-Tender No.60/2020

| | Please find enclosed herewith the following: | Page N |
|-----|---|--------|
| 1. | e-Tender Notice - NITJ/PUR/CY/75/20/e-Tender No.60/2020 & Schedule for Opening of the e-Tender | 2 |
| 2. | Annexure-I (Detail regarding Purchase of Gas Chromatograph with Mass Spectrometer – (GC-MS) under HEFA ,Tender Fee & EMD) | 3 |
| 3. | Important Note | 4 |
| 4. | Instruction to Tenderers | 5-7 |
| 5. | Tender Evaluation | 8-10 |
| 6. | Terms & Conditions | 11-13 |
| 7. | Special Conditions For Submitting Bid In Foreign Currency by The Indian Agents/Dealers | 14-15 |
| 8. | Questionnaires A & B | 16-17 |
| 9. | Performa for performance statement | 18 |
| 10. | Annexure 'A' (Specifications of the Equipment) | 19-24 |
| 11. | Annexure 'B' & 'C' (Format For Performance Bond/ Guarantee & Format For Performance Bond (Bank Guarantee) | 25-26 |
| 12. | Annexure – 'D' (Format for Manufacturer's Authorization Form) | 27 |
| 13. | Annexure- 'E' (Declaration Regarding Blacklisting/ Debarring for taking part in Tender) | 28 |
| 14. | Annexure –'F' (Certificate of Warranty) | 29 |

Assistant Registrar

Dr. B. R Ambedkar NIT Jalandhar

Email: arpurchase@nitj.ac.in



G T Road By Pass, Jalandhar-144011, Punjab (India) EPABX-0181-2690301 & 453 website: www.niti.ac.in email: registrar@niti.ac.in

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

e-TENDER NOTICE - NITJ/PUR/CY/75/20/e-Tender No.60/2020

National Institute of Technology, Jalandhar invites e-tender for purchase of **Purchase of Gas Chromatograph with Mass Spectrometer – (GC-MS) under HEFA** required for **Research & Development Lab/ PG Lab of Chemistry Department** of the Institute as per detail available at <u>Annexure-I</u> along with Tender Fee & EMD the detail is given below:

| I | Downloading & Submission of Online e-tender/bids | Start Date: 30.11.2020 at 11:00 AM |
|-----|--|------------------------------------|
| II | Last date of submission of online bids | End Date: 21.12.2020 upto 11:00 AM |
| III | Physical submission of Tender Fee and EMD | End Date: 22.12.2020 upto 11:00 AM |
| IV | Opening of Technical e-Bid (online) | 22.12.2020 at 11:00 AM |

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

Complete tender document is available for reference purposes on Institute website www.nitj.ac.in and CPP Portal. Only e-tenders will be accepted.

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Annexure-I

Ref. No. NITJ/PUR/CY/75/20/e-Tender No.60/2020

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

| Sr. no. | Item/Equipment | Qty. | Tender Fee | EMD |
|---------|----------------------------|--------|------------|---------------|
| 1. | Gas Chromatograph with | 01 no. | Rs. 500/- | Rs.1,00,000/- |
| | Mass Spectrometer -(GS-MS) | | | |

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

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



G T Road By Pass, Jalandhar-144011, Punjab (India) EPABX-0181-2690301 & 453 website: www.niti.ac.in email: registrar@niti.ac.in

Important Note

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

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



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Instructions to Tenderer

- 1. No tender will be accepted in physical form. The bidders shall have to submit their bids online in Electronic Format under Digital Signatures. For participation in the etendering process, the bidders need to register themselves on CPP Portal.
- 2. Bids are to be submitted online and opened online as per time given failing which no tender will be considered..
- 3. Bids will be opened online as per time given schedule.
- 4. Before submission of online bids, bidders must ensure that scanned copies of all the necessary/relevant documents have been uploaded with the bid which should be duly signed and stamped. The duly signed and stamped copies of Terms & Conditions of the tender, reply of the Questionnaire of Plant & Machinery and other documents of the Tender & Annexures must be uploaded, failing which their bids may be rejected.
- 5. NIT JALANDHAR, will not be responsible for any delay in online submission of bids due to any reason whatsoever.
- 6. Bidders should also upload the scanned copies of Tender fees/EMD/Exemption Certificate as specified in the tender documents along with online technical documents. EMD in the form of a Demand Draft in favour of the Security A/c, Dr B R Ambedkar NIT, payable at Jalandhar (refundable separate) and Tender Fee in the form of a Demand Draft in favour of the Director, Dr B R Ambedkar NIT, payable at Jalandhar (Non- refundable separate) should also be submitted in physical form to the following address as per scheduled time given for physical submission of EMD and Tender fee. The Envelope should be superscribed as EMD and Tender Fee for Tender for supply of Purchase of Gas Chromatograph with Mass Spectrometer- (GS-MS) for Research & Development Lab / PG Lab of Chemistry Department and sent to following address:-

Kind Attention- Assistant Registrar (Purchase Section)
Director,
Dr B R Ambedkar National Institute of Technology,
G T Road Amritsar By Pass, Jalandhar-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.

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- 9. The Financial Bid through e-tendering process shall be opened of only those bidders, who will qualify in the technical bid and approved by the Purchase Committee/Technical Experts. The date, time & place of opening of the financial bid(s) will be intimated in due course of time.
- 10. At any time prior to the deadline for submission of bid, the institute may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective tenderer(s), modify the tender document by issuance of an amendment.
- 11. The amendment will be uploaded on Institute website and CPP Portal only. In order to provide reasonable time to prospective tenderer(s), for preparing their bid as per amendment, the institute may, at its discretion extend the deadline for the submission of tender.
- 12. The supplier must upload the original manuals / catalogue and Make/Model of the Equipment /Item. Otherwise bid is liable to be rejected.
- 13. The Institute is not liable to pay any interest on EMD. Earnest money deposit shall be forfeited, if the tenderer, withdraws its bid during the period of tender validity. The Earnest money deposit of the tenderer, whose tender has been accepted, will be returned on the submission of performance security @ 5% of the total value of the offer. The performance security will be kept till the warranty period + 02 months more of the Equipment /Item. The warranty period will start from the date of satisfactory installation of the Equipment /Item duly given by the concerned department. Earnest money deposit of the successful tenderer shall be forfeited, if it refuses or neglects to execute the contract or fails to furnish the required performance security within the time frame as specified by the institute. The EMD(s) of other Bidder(s) whose offer are found according to required specifications/ lowest will be released after finalization of Technical Bids/ Lowest Bid/Purchase.
- 14. The Format of Performance Bank Guarantee bond or Performance Bank Guarantee issued by the bank as per the format given in **Annexure "B" & "C"**.
- 15. Delivery time is the essence of the contract and must be met with.
- 16. Nearest specifications/better specifications can be considered. In case of deviation, complete justification should be furnished with proper documents.
- 17. The Director may accept a tender in part or whole of the quantity offered, reject any tender without assigning any reasons and may not accept the lowest bidder. Further in case of any doubt/dispute, the decision of the Director of the Institute shall be final.
- 18. The offer shall be kept valid for minimum 120 days.

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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 <u>supported by</u> an affidavit as per format given in **Annexure-"E"**.
- 22. If any information furnished by the bidder is, at any stage found to be incorrect/false/fabricated, the Institute shall have the absolute right to forfeit the EMD, warranty/performance guarantees or/and security deposits, in addition to cancellation of contract, and in accordance with law, such other actions may be taken like black-listing of the bidder etc.

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

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.

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PART - II (e-FINANCIAL BID):

- a) Bidders should offer the rates as per the format of BOQ as available on CPP Portal. Detailed bill of material/quantity is also to be provided along with the price breakup of each item as per requirement of the tendered specification of the equipment in the online price bid at CPP Portal.
- Note: The quoted amount as filled in the Annexure(s) of online financial bid and detailed bill of material/quantity provided with price break up of each item in the online financial bid should be tallied and both must be same, otherwise bid will be treated invalid.
- b) 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.
- c) 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.

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ARBITRATION:

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

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

JURISDICTION:

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

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

- 1. Rate should be quoted F.O.R NIT Jalandhar.
- 2. a) For Foreign Import goods/ Equipment, the rates will be evaluated on DAP basis alongwith 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 upto NIT, Jalandhar. Institute will provide all the documents regarding custom clearance.
- b) e-Bids found without quoted upto DAP NIT value shall be treated as invalid.
- 3. Where the Equipment / Machinery/ Instrument are composed of several sub units/components, the rate should be quoted for each subunit/component separately. NIT Jalandhar reserves the right to increase or decrease the number of sub units/components and number of Equipment / Machinery/ Instrument according to its requirements.
- 4. 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.
- 5. 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.
- 6. GST or any other chargeable duty where applicable must be specifically mentioned, failing which no tax or duty will be allowed at subsequent stage.
- 7. 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.

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8. Payment:

- (a) 100% payment will be made against physical delivery, inspection, installation, training of the Equipment/Machinery/Instrument etc in the institute, receipt of satisfactory working report of the Equipment / Machinery/Instrument etc and receipt of Performance Bank Guarantee @ 5%.
- 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 / Machinery/Instrument etc in the institute. The payment charged by bidder on account of custom clearance, loading/unloading, transportation, insurance etc. as per price bid and delivery up to 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.

- **9.** Warranty: Rates should be quoted with comprehensive warranty. Besides this, policy regarding after sale service on the expiry of warranty period of Equipment / Machinery/Instrument etc may be explained. The bidders should attach duly signed and stamped certificate of warranty as per <u>Annexure-F</u> with the technical bid.
- 10. Training: In house training (where applicable) after the installation and commissioning of Equipment / Machinery/Instrument etc shall be provided by the supplier.
- **11. 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.

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- **12. Installation**: Supplier has to install the Equipment / Machinery/ Instrument within two to three weeks from the receipt of the Equipment / Machinery/Instrument etc in NIT Jalandhar.
- 13. Spares and Accessories, wherever required should be quoted separately and clearly, even if these are not asked for.
- **14. Site Preparation**: The supplier shall inform NIT Jalandhar about the site preparation, if any, needed for the installation, immediately after receipt of the supply order. Supplier must provide complete details regarding space and all infrastructural requirements needed for the Equipment / Machinery/Instrument etc which NIT Jalandhar should arrange before the arrival of Equipment / Machinery/Instrument etc to ensure its early installation and smooth operation thereafter. The supplier may offer his advice and render assistance to NIT Jalandhar in the preparation of the site and other pre installation requirements.
- **15.** The total scope of work includes the supply, installation, satisfactory commissioning and testing of the Equipment / Machinery/Instrument etc by the supplier, training at NIT Jalandhar, method development and validation for parameters as mentioned in specifications at **Annexure-A**. The supplier will complete installation & Commissioning of Machine within two to three weeks from the date of receipt of Equipment / Machinery/Instrument etc of NITJ.
- **16.** Details about the service center for the quoted Equipment / Machinery/Instrument etc. in India may be mentioned.

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<u>SPECIAL CONDITIONS FOR SUBMITTING BID IN FOREIGN CURRENCY BY</u> 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 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.
- 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.

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Acceptance

| | ead and accept the instructions to the |
|---|---|
| tenderer, terms & conditions and all other and shall Comply with them strictly. | er documents as mentioned in the tender |
| Name of Bidder | Signature |
| Address | Seal of firm: |
| | Date: |



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Questionnaires A & B

QUESTIONNAIRE FOR PLANT & MACHINARY

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

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



Bids consisting of technical details bringing out clearly in a separate sheet ,the deviation in the specifications if any from that of tender enquiry specifications along with commercial terms and tender form.

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

Name & Full Address of your Banker

9. Please indicate whether you agree to submit advance samples if called upon to do so within the specified period of 21 days.



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

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

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

(Signature of Tenderer)

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

| (| |
|---|---|
| Full Name & Address of the person signing | |
| | |
| (|) |



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

| Sr.No. | Order Placed (full address of purchaser) | Order No. & dated | Description And Qty. of Stores Ordered | Value of Order | Has the Equipment/Iten been satisfactory commissioned |
|--------|--|----------------------|---|-------------------|---|
| | | | | | |
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Annexure "A"

Technical Specification of Gas Chromatograph Mass Spectrometer (GC-MS)

GC Specifications:

- Fully automated dual channel system.
- 2. Carrier Gas Pneumatic program rates 0-100.0 psi/min/ 0-100.0 mL/min/0-200.0 cm/sec or ballistic or suitable as per instrument requirement.
- 3. System must have touch screen or PC based user interface for instrument operation.
- 4. System should be configured with Prevent Technology or Backflush Capabilities or equivalent technology to restrict high-boiling components from reaching the detector in order to protect system components and to reduce run time and maintenance of system
- All modules asked in tender should be controlled with single software.
- System should be suitable for all capillary columns.
- 7. Injector: Split/split less, Multimode inlet, PTV and others
- 8. Oven: Column oven must be large enough to accommodate at least two capillary columns
- 9. Oven Temperature: Operating temperature must be 4° C above ambient to 450° C with temperature set point resolution 1°C
- 10. Oven ramps/plateaus: Maximum temperature ramp rate must be 120° C/ must have temperature programming 20 ramps and 21 plateaus with allowed negative ramps. C/min.
- 11. Ramp rate: 120 °C/min (200 +V), 75 °C/min (120 V)
- 12. Capillary flow technology: Effluent splitting, backflushing, column switching
- 13. Maximum operating temperature for auxiliary zones must be at least 400°
- 14. Cool down rate of column oven: 400 ° C. C to 50°
- 15. Retention time locking (RTL): RTL-ready, constant flow or pressure
- Split ratio easily adjustable for a wide range of analytical conditions.
- 17. Electronic Pneumatic Control (EPC) / Electronic Flow Control (EFC) for inlets, detectors or auxiliary gases with programmable pressure / flow. C in < 5min
 - Must have temperature ramped split /splitless and large volume injection modes. i.
 - Must have electronic pressure / flow control operable at ≥ 350o ii.
 - Pressure setting range must be 0 to 100 psi. iii.
 - Split ratio must be up to 5000:1or better iv.
 - Must have cooling device and all accessories. V.
 - Must have option for back flushing. vi.



18. Top mounted Autosampler for versatile applications with the following specifications:

- XYZ robot with syringe only concept, no tubing in sample path i.
- Must have capability of Liquid Injection, Headspace, SPME, combination of In-Tube ii.
- iii. Extraction and Liquid Injection.
- Must be compatible with the quoted GC injectors and able to inject desired samples iv. in the
- Suitable vial capacity for analysis of 12 samples. V.
- Auto-sampler should be operational for both the inlets. vi.
- Injection speed: Normal, fast, slow VII.
- Capable to inject sample volume from 1uL to maximum 50.0 uL. viii.
- System should have user friendly operations & auto sampler syringe should be user ix. changeable.
- Sampler should be self-aligning injector and tray

19.GC injectors.

- The system must be capable of automating standard dilution, standard addition, sequential
- ii. dilution, derivatization and vortexing.
- Must be capable of handling liquid volume of 0.1 to 500µl. iii.
- Injection Speed for Liquid Samples Selectable up to 1000 µL/sec and fully iv.
- programmable.
- Heated and Cooled Tray holders with their accessories for 1ml/2ml/10ml/20ml vials vi.
- Appropriate spare syringes vii.
- SPME holder and fibers Divinylbenzene/carboxen, Carbowax/divinylbenzene, viii. Polyacrylate, Carboxen/polydimethylsiloxane and Polydimethylsiloxane/divinylbenzene.
- Must have sample incubation chamber with heating (up to 150 o C or better) and ix. agitation.
- SPME Fiber Cleaning Station X.
- Wash station for up to 4 solvents

20. FID: Qtv-1 Detector:

- 1. MDL: < 3 pg c/s or better.
- 11. Dynamic range: > 106.
- 111. Data acquisition rate: up to 200 Hz or better.
- All gases flow should be adjustable/controlled by software with no manual control. IV.
- Must have heated direct interface for GC-MS. V.



G T Road By Pass, Jalandhar-144011, Punjab (India) EPABX-0181-2690301 & 453 website: www.nitj.ac.in email: registrar@nitj.ac.in

Mass Spectrometer

- 1. Triple Quadrupole based tandem mass spectrometer.
- 2. Minimum mass range must be m/z 10 to 1030 or better
- Mass resolution must be minimum 0.7 at FWHM. 3.
- 4. Mass axis stability must be ±0.1 amu over 12 hours
- 5. Must have scan rate approximate; 20000 u/s.
- Must have 10⁶ linear dynamic range.
- Must have electron ionization (EI), positive chemical ionization (PCI) and 7. negative chemical ionization (NCI).
- 8. CI must have electronic flow control for reagent gases; CI must have capability of using different reagent gases.
- 9. Tandem mass spectrometer must have following scan options
- i. Full scan
- ii. Selected ion monitoring / recording (SIM / SIR)
- iii. Product ion scanning
- iv. Precursor ion scanning
- v. Neutral loss/gain scanning
- vi. Multiple / selected reaction monitoring (MRM / SRM)
- vii. SRM / MRM transition speed must be more than 500 SRM per second; Must have minimum MRM dwell time of 0.5 milliseconds
- 10. Collision cell gas pressure must be electronically controllable.
- 11. Must have computer controlled and programmable collision gas control
- 12. Triple-Axis HED-EM with extended-life EM and dynamically ramped iris or equivalent detector
- 13. Electron energy must be in between 10 to 300 eV
- 14. Must have resolution Selectable, 0.7 to 2.5 Daltons, default tune, Settable, 0.4 to 4.0 Daltons, custom tune
- 15. Collisional energy must be variable
- 16. Installation checkout sensitivity must be better than
- El full scan for Octafluoronaphthalene at 1 pg (S/N 300:1)²
- ii. El SIM for Octafluoronaphthalene at 25 fg (S/N 50:1)2
- iii. NCI SIM for Octafluoronaphthalene at 10fg (S/N 100:1)2





- iv. PCI (methane as a reagent gas) full scan for Benzophenone at 20 pg (S/N $20:1)^2$
- v. EI SRM (MS/MS) for Octafluoronaphthalene at 100 fg (S/N 5000:1)2
- vi. PCI (methane as a reagent gas) MS/MS for Benzophenone at 100 fg (100:1)2
- Must have air cooled turbomolecular pumps 17.
- Vacuum system of mass spectrometer can accommodate GC carrier gas 18. flow up to 6 mL/min
- Noise reduction cover for foreline pump must be included. 19.
- 20. Appropriate branded computer for controlling the GC-MS with at least 8GB RAM, Intel core 4th D. Appropriate branded computer for processing the data with at least 12GB RAM, Intel core 4 Generation i7 processor, DVD multi-burner, one 1TB SATA Hybrid HDD and 23" flat panel display.
- The Software package must include all necessary software for controlling, 21. data acquisition, data processing, qualitative and quantitative analysis for complete equipment with its peripherals. Generation i7 processor, DVD multi-burner, two 1TB SATA HDD and 23" flat panel display.
- NIST 14 (MS library) or latest release and 'MassWorks' for MS formula ID 22. must be included in the offer.
- Laser jet colour Printer and scanner. 23.
- Gas (He, N2 I. leak detector and flow meter 24.
- Must include at least these following consumable spares in addition to the 25. normal packaging: , etc.)
- El filaments 04 no.'s Ĭ.
- CI filaments 04 no.'s ii.
- Any fragile / replaceable material 02 sets in ion source iii.
- GC splitless injector liner with and 06 no.'s (each type) without iv. deactivated glass/quartz wool at optimum position
- O- ring for injector liner 2 dozen ٧.
- Spilt vent trap or similar item 1 no. vi.
- Spare trap/purifier for carrier, 1 set Collision and CI reagent gases vii.
- Spare nuts for column connection 4 no.'s at injector end viii.
- Spare ferrules for column connection- 4 set's at injector end ix.
- Spare nuts for column connection 4 no.'s at GC interface / transfer line X.
- Spare ferrules for column connection- 4 set's at GC interface / transfer line xi.







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- xii. Screw top vials with caps, 2mL - 200 no.'s
- xiii. Screw top vials with caps, 4mL - 200 no.'s

Control System

WorkStation Instrument Control software should allow to perform the followingtasks:

- a. Start and stop the instruments from the software
 - b. Download settings to the GC and the Single Quad in real time to control the instrument.
 - c. Evaluate if the MS parameters are within the limits to produce the specified mass accuracy and resolution with a Check tune report.
 - d. Optimize MS parameters automatically or manually through software tuning programs and print an Auto tune report.
 - e. Monitor the actual conditions of the instrument. View the real-time plot for chromatograms and instrument parameters (both GC and MS) and print a real-time plot report.
- 26. Must include four (04) Rxi-5MS or its equivalent GC capillary column having dimensions; 30 meter length, 0.25mm I.D. and 0.25µm film thickness.
- 27. 10KVA UPS of reupted companies such as Emersion, ELNOVA / APC / Tata liebert with 60 minute backup time for supporting the quoted instrument with its all accessories, computer and printer
- 28. Gas purification panel with following cylinders and appropriate dual stage steel diaphragms regulators (two for each type of gas)
- i. Helium (≥99.9995%) - 4No.'s
- ii. Argon / Nitrogen (99.999%)-2No.'s
- iii. Methane (99.999%) - 2No.'s
- iv. Isobutane (99.99%) - 1 No.
- ٧. Ammonia (99.9995%) - 1 No.
- 29. Must include installation kit
- 30. Tool kit for installation and maintenance of GC-MS
- 31. Offer must include declaration of ten years use guarantee with full support including spares, consumables, accessories and upgradation of instrument and software



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

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

- 32. Specify the site requirement and must include pre-installation site inspection
- Installation and demonstrating the performance as claimed in the offer at the installation site.
- Training for scientist must be provided at the installation site by application engineers after installation and performance demonstration (at least two visits).
- 35. Must offer five years warranty
- Must provide list of institute and installations in last five years with the contact details of user scientists
- 37. Operator cum site engineer for the operation of instrument (01).
- 38. Training: Installation, Familiarization & application Training should be given at our lab with no additional charge.

Important Note

- 39. Vendor should have ISO 9001 Certification.
- 40. All the requirements laid down under the above specifications must carefully read and understood before claiming your instrument as "complied".
- 41. Please provide compliance statement sheet with technical bid and if there is any deviation in above mentioned specifications should be clearly highlighted in remarks.
- User list should be attached along with literature.
- 43. The vendor should have office or agents in India. Qualified technical and service personnel should be available in India (preferably in Chandigarh or Delhi).

Professor (Dr) B S Kaith

Dr Sadhika Khullar Co-Pl



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

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, Messers hereby submit the FDR/TDR No | | | | |
| we, inessers hereby submit the FDR/TDR No | | | | |
| issued by pledged in | | | | |
| 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 | | | | |

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

against the said supplier and forbear or enforce any of the terms and conditions relating to the order and

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.



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

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

Annexure "C"

FORMAT FOR PERFORMANCE BOND (BANK GUARANTEE)

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

| | release the payment of | | | | concluded Ord | or No |
|---|---|--|--|--|--|-------------------------------------|
| | dated | | | | concluded Old | 51 110. |
| of | (hereinafter | called | iled the orde | Fauinment | (Itom) | to |
| | (herein | | | | | |
| | Jalandhar for the due p | | | | Dank Guarantee | to the |
| We, | | | (here | inafter called 'the | Bank') at the re | equest |
| absolutely underta | o, as a primary obliger ake against any loss or perform or omission or terms of the order. | damage caused | l or suffered l | oy NIT Jalandhar b | reason of any | failure |
| merely on a dem caused to or wou any of the terms Bank shall be connot be considere hereunder. However, the Bank, una). Any dispute a supplier or any perthereto or | hereby undertake to pay and from NIT Jalandha Id be caused to or suffe and conditions containe actusive as regards the a ed as satisfied by any ver, our liability under the dertake to pay to NIT Ja and difference between erson or any suit or processions. | ar stating that the red by NIT Jala din a said order amount due and intermediate pis guarantee shallandhar any amount Jalandhar eeding pending | ne amount clandhar by reaser or any part payable by the payment or sall be restricted ount so demand supplied before any content of the payable before any content of the payabl | aimed is due by wason of any breach the thereof. Any such the bank under this gatisfaction of any anded by NIT Jalander or any other per | ay of loss or day by the said supp demand made of guarantee, which part of or obli exceeding dhar, notwithstal eson or betweel | amage olier of on the handle gation |
| a). The invalidity | , irregularity or unenforc | eability of the or | der 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 quarantee.

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

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

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

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

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



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Annexure "D"

FORMAT FOR MANUFACTURER'S AUTHORIZATION FORM

| The Registrar Dr B. R Ambedkar Na Jalandhar | ational Institute of T | echnology | | | |
|---|---|---|---|---------------------------------------|--------------------------------------|
| Sub. : e-Tender for " | | | | | |
| Dear Sir, | | | | | |
| | , who a ,having factory/c [<i>name</i> & address | office at | | _, hereby author | rize M/s |
| order with you for the We shall remain M/s | - | - | der/Agreement | negotiated | by |
| this business against the We hereby extend our goods offered for supp | · · full guarantee and w | or all business in arranty as per the | the entire territon | ry of India. | · |
| *specify in detail m M/si) | anufacturer's respo are as under: | n sibilities the se | rvices to be rer | ndered by | |
| [Specify the service changed or agent/ distant and obligations to the commission or omission or faithfully, | res to be rendered by tributor is changed it e new Indian Agent | the agent/distrik shall be obligate failing which w Indian Agent/ di | ry on us to auto e will ipso-facto stributor. | omatically transfe o become liable | er all the duties for all acts of |



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Annexure "E"

$\underline{\mathsf{DECLARATION}\,\mathsf{REGARDING}\,\mathsf{BLACKLISTING}\,\mathsf{/}\,\mathsf{DEBARRING}\,\mathsf{FOR}\,\mathsf{TAKING}\,\mathsf{PART}\,\mathsf{IN}\,\mathsf{TENDER}}$

Self Attested

| I / We | (Tenderer) hereby declare that the firm / agency namely |
|------------------------------|---|
| | has not been blacklisted or |
| | nion / State Government or organization from taking part in |
| Government tenders in India. | |
| | |
| | Or |
| I / We | (Tenderer) hereby declare that the Firm / agency namely |
| | was blacklisted or |
| | Government or any Organization from taking part in Government |
| tenders for a period of | |
| yea | rs w.e.f to The period is over on |
| and now | the firm/company is entitled to take part in Government tenders. |
| | n found false I / we are fully aware that the tender/ contract Director, NIT Jalandhar, and EMD / SD shall be forfeited. |
| DEPONENT | |
| Attested: | |
| (Stamp of Company with au | thorized sign) |
| Name | |
| Address | |



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

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

Annexure: "F"

CERTIFICATE OF WARRANTY

| 51 0 76 E 0 0 | tarting from the date quipment /Item and of rder. During the warr eplacement of any particular quipment /Item will be wn cost and responsible satisfactory and fault | ranty shall be for a period of satisfactory installation the works conducted there anty period, I/we shall art(s) of the Equipment of the end of cost. The replacement of the standard was functioning of the End of change in dates of the | on, commissioning with covered under provide free "Item or rectification of the parts above warranty quipment /Item | ng and handing der the supply ord fafter sale servication of defects of shall be arranged or shall begin only for 60 days at N | over of the er in working ce" and the work of the by us, at our rom the date |
|------------------------------|--|---|---|--|--|
| i). Dur | ing the warranty period | l, we shall provide at least | preve | entive maintenan | ce visits. |
| /Item a). | n in good working cond | the warranty period, we witions for a period 350 day attended by us within 2 w | s (i.e. 95% uptim | e) in a block of 36 | 5 days. |
| C S | ount the number of day | of more than 2 days in attenders in excess of the permiss 2 days for attending to a | ible response tin | ne in the downtime | e. The above |

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

/Item for every week or part thereof delay in rectifying the defect.

| iv). We certify that the Equipment /Item being/ quote | ed 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. | |

c). Penalty: We shall pay a penalty equivalent to 0.5 % of the FOB/CIF value of the Equipment

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

Signature & Seal of the Manufacturer/Tenderer

| L | agc |
|---|-----|
| • | ^ |