



राष्ट्रीय प्रौद्योगिकी संस्थान अगरतला  
NATIONAL INSTITUTE OF TECHNOLOGY AGARTALA  
Fax : 0381 254-6360, Website : [http:// www.nita.ac.in](http://www.nita.ac.in)

No.F.NITA.11(11-ME)/RAC Lab/2024-25/ 2078-81

Date: 13/9/2024

**E-Tender Notice**

On behalf of National Institute of Technology Agartala, bids are invited in sealed cover from the reputed resourceful Manufacturers / Authorized Distributors/ Authorized Suppliers for supply of item(s)/goods as per specification mentioned in Annexure of tender document available at our website [www.nita.ac.in](http://www.nita.ac.in).

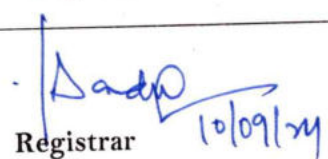
| Sl. No | Department / Section   | Ref. No.                             | Items  | Estimated cost (Rs.) | Last date of receipt of tender | Time and date of opening of Technical bid |
|--------|------------------------|--------------------------------------|--|----------------------|--------------------------------|---|
| 1      | Mechanical Engineering | No.F.NITA.11(11-ME)/RAC Lab/2024-25/ | Different materials/small instruments required for Refrigeration and Air Conditioning Laboratory | 5,97,143.00          | 28/11/2024<br>Up to 3:00 PM    | 29/11/2024<br>At 3:00 PM                  |

The interested Manufacturers / Authorized Distributors/Authorized Suppliers may arrange online submission of the tender through [www.eprocure.gov.in](http://www.eprocure.gov.in) along with scan copy of essential documents mentioned in the tender document.

Tender(s) is/are to be submitted only online through central public procurement portal i.e. "<http://eprocure.gov.in>". All the documents are to be scanned and uploaded along with the tender documents.


Tender sent by any other mode will not be accepted.

Registrar

  
Registrar  
NIT Agartala

Copy to:

1. The P.S. to the Director for kind information.
2. The Nodal Officer, e-Procurement, NITA with a request to kindly arrange uploading the Tender Documents in the CPP portal <https://eprocure.gov.in/cppp>.
3. Mr. Kamal Kanti Paul, System Administrator, Computing & ICT Unit with a request to uploading the Tender documents in the Institute website site.
4. The Deputy Registrar (F & A).

  
Registrar  
NIT Agartala



# राष्ट्रीय प्रौद्योगिकी संस्थान अगरतला

National Institute of Technology Agartala  
AGARTALA - 799 046 (TRIPURA)

No.F.NITA.11(11-ME)/RAC Lab/2024-25/ 2078- 81

Date: 13/09/2024

## E- Tender Enquiry

### IMPORTANT INFORMATION

Name of the Institute : NATIONAL INSTITUTE OF TECHNOLOGY AGARTALA  
GST Number of the Institute : 16AAAGN0550K1ZG  
PAN of the Institute : AAAGN0550K  
TAN of the Institute : SHLN00719F  
DSIR No. : TU/V/RG-CDE(1053)/2022 dated 18/12/2022  
Institute Bank A/C No. : 030936141729 (IFSC: SBIN0011491) under SBI, NIT Agartala Branch.  
Name of Department / Branch : Mechanical Engineering  
Enquiry / Reference Number : No.F.NITA.11(11-ME)/RAC Lab/2024-25/

Some important/Critical dates:

|   |                     |               |
|---|---------------------|---------------|
| Uploading on CPP Portal and Department's web-site | Date: 06 / 11/2024  | Time: 5:00 PM |
| Bid submission start date                         | Date: 06 / 11/2024  | Time: 5:00 PM |
| Bid submission end date                           | Date: 28 / 11 /2024 | Time: 3:00 PM |
| Opening of technical bid                          | Date: 29 / 11 /2024 | Time: 3:00 PM |






# राष्ट्रीय प्रौद्योगिकी संस्थान अगरतला

**National Institute of Technology Agartala**

AGARTALA - 799 046 (TRIPURA)

## **Details of e-tender document.**

NIT, Agartala intends to purchase the commodities/serie(s) specified in Annexure enclosed and invites quotations in accordance with the terms and conditions detailed in the bid document. If you are interested, kindly submit your offer with prices within the time mentioned above fulfilling all the terms and conditions marked in the bid documents.

  
10/09/24

**Registrar**

National Institute of Technology  
Agartala – 799 046, Tripura

Encl :

- (1) Schedule of requirement, specifications, dates etc.
- (2) Bid document containing detail terms and conditions.



# राष्ट्रीय प्रौद्योगिकी संस्थान अगरतला

National Institute of Technology Agartala

AGARTALA - 799 046 (TRIPURA)

1. Schedule of requirements

| Sl. No. | Description of Goods/Service  | Quantity          |
|---------|---|-------------------|
| 01      | <b>Laboratory and Scientific Equipment</b><br>Different materials/small instruments required for Refrigeration and Air Conditioning Laboratory<br>(Details as per Sl. No. 1 to 53 at Annexure-I). | As per Annexure-I |

2. Specifications and allied Technical Details

|   |
|---|
| <b>Laboratory and Scientific Equipment</b><br>Different materials/small instruments required for Refrigeration and Air Conditioning Laboratory<br>(Details as per Sl. No. 1 to 53 at Annexure-I). |
|---|

1. Estimated Cost

|               |
|---------------|
| ₹ 5,97,143.00 |
|---------------|

- Quotations should be valid for a period of **180** days from the opening date of the technical bid.
- Bid Security or EMD: 2% of the estimated cost of the tender **or** Bidders should submit "**Bid Security Declaration Form**" on company letter head as per annexure-D of this tender document.
- Performance Security: The amount of the Performance Security shall be 3%(three percent) (not applicable for consumable item(s)) of the Purchase Order / Contract value, valid up to 60 days after the date of completion of contract obligations including warranty obligations.
- Delivery Option: 60 (sixty) days after receipt of the purchase/work order(s).
- Please go through the enclosed "bid document" carefully for other bidding instructions.
- For any technical details, you may contact through email-id: [nitapurchasesection2@gmail.com](mailto:nitapurchasesection2@gmail.com).

Yours sincerely,

Registrar

National Institute of Technology  
Agartala – 799 046, Tripura





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National Institute of Technology Agartala  
AGARTALA - 799 046 (TRIPURA)

No.F.NITA.11(11-ME)/RAC Lab/2024-25/

Date: / /2024

## **BID DOCUMENT**

### 1. Instructions to the bidders:

- 1.1 Bids are invited through e-tender on behalf of the National Institute of Technology Agartala, Tripura, Agartala-799046 from the intending bidders for supply of the goods/stores/ equipments/Learning resources for the Institute as detailed in the enquiry letter.
- 1.2 The bidders should quote their rates in clear terms without ambiguity. The quotation should be only in Indian Rupees.
- 1.3 The last date & time for submission of the bid is marked in the enquiry.
- 1.4 The bids should be submitted online through [www.eprocure.gov.in](http://www.eprocure.gov.in) before the last date & time of submission specified in tender document.
- 1.5 Bids received after the deadline of receipt indicated in para 1.4 above, shall not be taken into consideration.
- 1.6 Each bidder shall submit only one bid **against one enquiry**. A bidder, who submits more than one bid against single enquiry, shall be disqualified and considered non-responsive.
- 1.7 The bidder has to enclose a check list at per Annexure - C duly filled in along with all relevant/supporting documents while submitting technical bid through [www.eprocure.gov.in](http://www.eprocure.gov.in).
- 1.8 Opening of Bids by the Purchaser will be done as per the provisions of the e-procurement system.
- 1.9 At any time prior to the due date for submission of bids, the Purchaser may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the bidding documents by amendment.
- 1.10 All prospective bidders are expected to surf the website before formulating and submitting their bids to take cognizance of the amendments.
- 1.11 Custom Duty Exemption Certificate will be provided from the Institute for availing Custom Duty Exemption in trams of notification No. 51/96-Custom dated 23-07-1996, amended by notification No. 43/2017 dated 30-06-2017, further amended by notification No. 42/2022 dated 13-07-2022, as amended from time to time in case of imported items per OM No. F.4/1/2021-PPD dated 01-09-2021.

Yours sincerely,

Registrar

National Institute of Technology  
Agartala – 799 046, Tripura





# राष्ट्रीय प्रौद्योगिकी संस्थान अगरतला

National Institute of Technology Agartala

AGARTALA - 799 046 (TRIPURA)

No.F.NITA.II(11-ME)/RAC Lab/2024-25/

Date: / /2024

## 2. General Terms & Conditions:

- 2.1 The rates quoted by the Supplier/Bidders should preferably be on basic price, Annual Maintenance Charges(if applicable), packing, forwarding, freight, Insurance and all other incidental charges including delivery of the Materials at National Institute of Technology, Agartala.
- 2.2 All taxes and duties will be paid extra and such amounts of mandatory/statutory taxes & duties shall be explicitly mentioned in BOQ while submitting of bid. If GST amount not quoted in the BOQ (price bid), the total cost will be treated as inclusive of GST.
- 2.3 Price has to be filled through CPP portal as per BOQ (<https://www.eprocure.gov.in>). The scanned copy of Price Bid, dully filled in, has to be uploaded on the above e-procurement site. The prices filled in the e-procurement site will be treated final and shall be binding to the vendor.
- 2.4 Insurance: The Goods supplied under the Contract shall be fully insured against any loss or damage incidental to manufacture or acquisition, transportation, storage and delivery up to the final destination.
- 2.5 All the Machines/Equipments/goods will be covered by Annual Maintenance Contract (AMC) / CMC/ Warranty beyond the normal warranty/guarantee period. Interested bidders are requested to quote price against AMC/Extended warranty as an optional item in the price bid. **Optional items will not be taken into consideration while selecting L<sub>1</sub> bidder.**
- 2.6 AMC/CMC/Extended Warranty will be awarded after completion of standard warranty period. AMC/CMC/Extended Warranty may be carried out only after receipt of confirmation letter from this Institute. The Institute will not be responsible for any due payments / obligations may arise as a result of execution of AMC/CMC/Extended Warranty without confirmation letter from this Institute.
- 2.7 Conditional discount, if any, offered by the bidder shall not be considered at the time of evaluation.
- 2.8 The bidders who are registered as a Micro or Small Enterprise as per latest definitions under MSME rules, Govt. of India for exemption of submitting EMD/Bid security must enclose relevant documentary proof of authentication of their firm's registered as a Micro or Small Enterprise as per latest definitions under MSME rules, Govt. of India.





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AGARTALA - 799 046 (TRIPURA)

- 2.9 If the bidder is a Micro or Small Enterprise as per latest definitions under MSME rules, the bidder shall be exempted from the requirement of "Bidder Turnover" criteria and "Experience Criteria". If the bidder is OEM of the offered products, it would also be exempted from the "OEM Average Turnover" criteria. In case any bidder is seeking exemption from Turnover / Experience Criteria, the supporting documents to prove his eligibility for exemption must be uploaded with technical bid.
- 2.10 If the bidder is a Startup, the bidder shall be exempted from the requirement of "Bidder Turnover" criteria and "Experience Criteria". If the bidder is OEM of the offered products, it would also be exempted from the "OEM Average Turnover" criteria. In case any bidder is seeking exemption from Turnover / Experience Criteria, the supporting documents to prove his eligibility for exemption must be uploaded with technical bid.
- 2.11 National Institute of Technology, Agartala is following and abide with the Public Procurement (Preference to Make in India), Order 2017, DIPP, MoCI Order No. P-45021/2/2017-B.E.II dated 15th June 2017 and subsequent amendments to the order. Accordingly preference will be given to the Make in India products while evaluating the bids, however, it is the sole responsibility of the bidder(s) to specify the product quoted by them is of Make in India product along with respective documentary evidence as stipulated in the aforesaid order in the technical bid itself. A self-declaration as per Annexure- G should be enclosed in the technical bid.
- 2.12 **On site Comprehensive Warranty:**
- The successful bidder shall provide a Comprehensive Warranty for minimum period of 1 year (not applicable for consumable item(s)) after the installation and commissioning of the instrument / software/items. If within a warranty period after installation any such product or component is proven to be defective such product shall be repaired or replaced by the supplier/vendor. Such repair and replacement shall be sole obligation of supplier/vendor. Supplier / vendor shall be responsible for payment for all charges (to-and-fro) for repair/ replacement. Any design defects or installations deficiencies or any outer defects, if noticed during the warranty/ maintenance period, shall be rectified promptly by the successful bidder with no cost at all the places, which also includes the field installations.
  - Down-time call attendance should be within 48 hrs.
  - In case the Equipment / System remains non-operational for more than 5 days then warranty period will be extended for the equal period for which Equipment / System remained non-operational. Warranty extension in such case shall be done without prejudice to any other Term & condition of the contract.





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- 2.13 The documentary evidence of the bidders qualification to perform the contract if the bid is accepted shall establish to the purchasers satisfaction that:

|     |  |
|-----|--|
| (a) | The bidder meets the qualification criteria listed in bidding documents, if any.   |
| (b) | Bidder who doesn't manufacture the goods it offers to supply shall submit Manufacturers' Authorization Form using the form specified in the bidding document to demonstrate that it has been duly authorized by the manufacturer of the goods to quote and / or supply the goods/services. |

- 2.14 The successful bidder has to furnish "Performance Guarantee/Security" (not applicable for consumable item(s)) for an amount specified in the enquiry by E-Payment System to NITA Account within 15(fifteen) days of intimation of contract/supply order.

Alternatively, "Performance Guarantee/Security" will be retained by the Institute from the billed amount of the contract/supply order which will be released two months after the completion of warranty period (not applicable for consumable item(s)).

- 2.15 **Delivery Schedule:** As per e-Tender.

The item(s)/goods are required to be delivered at the indenting Department of National Institute of Technology, Agartala, and must be dispatched within specified days from the date of placement of the supply/purchase/work order.

If the supplier fails to Supply, Install and Commission the system/instrument as per specifications mentioned in the order within the due date, the Supplier is liable to pay liquidated damages of 0.5% of order value per week or part thereof of delay subject to a maximum of 10%, as the case may be, beyond the due date. Such money will be deducted from any amount due or which may become due to the supplier. Any exemption towards delay without LD can be resolved through mutual consent under exceptional circumstances.

- 2.16 Force Majeure: Notwithstanding the provisions of clauses relating to Extension of Time, Penalty and Termination for Default the Supplier shall not be liable for forfeiture of its Performance Security, Liquidated Damages or Termination for Default, if and to the extent that, its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.
- 2.17 Evaluation of Bid: The Technical Bid shall be evaluated on the basis of technical and other parameters usually taken in to consideration. Financial bid shall be evaluated on the basis of financial parameters. Govt. of India rules shall be taken in to account for evaluating both technical and financial bids.
- 2.18 The successful bidder(s) may be required to execute a contract on the basis of evaluation as per annexure(s) (as applicable).





# राष्ट्रीय प्रौद्योगिकी संस्थान अगरतला

National Institute of Technology Agartala

AGARTALA - 799 046 (TRIPURA)

- 2.19 NIT Agartala will reject a proposal for award if it determines that the Bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive or coercive practices in competing for the Contract in question.
- 2.20 The bidder has to submit valid trade license, GST registration certificate, Last filled ITR and last filed GST return.
- 2.21 Payment: **100% will be made in INR (Indian National Rupees)** after successful Installation, Commissioning of item against submission of Performance Guaranty (PG) otherwise an equal amount of PG will be retained by the Institute till the completion of warranty obligations.

**Note:** All payments due under the contract shall be paid after deduction of statutory levies at source (like ESIC, IT (TDS), GST, LBT / Octroi etc.), wherever applicable.

- 2.22 In the event of any dispute arising out of the bid or from the resultant contract, the decision of the Competent Authority, National Institute of Technology, Agartala shall be final.
- 2.23 The bid document/resultant contract will be interpreted under Indian Laws.
- 2.24 National Institute of Technology, Agartala will not take any responsibility for arranging road permit/way bill or clearance from tax department for delivery of goods. All such requirements should be completed by the bidder for delivery of goods at National Institute of Technology, Agartala. GST payment, if required, should be paid by successful bidder and if GST not paid, National Institute of Technology, Agartala will deduct the applicable amount from successful bidder's bills and pay the same to Tax Authority. If there is any mandatory tax(es) other than GST/other taxes mentioned in this tender document, imposed by State Govt., the same may also be deducted from the bills of the successful bidder, as applicable.
- 2.25 **Competent Authority of National Institute of Technology, Agartala reserves the right to cancel the entire e-tendering process at any stage of the procurement process without mentioning any reason.**
- 2.26 **Legal disputes, if any with NIT Agartala will be restricted within the jurisdiction of Agartala only.**

Yours sincerely,

Registrar

National Institute of Technology  
Agartala – 799 046, Tripura





# राष्ट्रीय प्रौद्योगिकी संस्थान अगरतला

National Institute of Technology Agartala

AGARTALA - 799 046 (TRIPURA)

No.F.NITA.11(11-ME)/RAC Lab/2024-25/

Date: / /2024

### 3. Special Terms & Conditions:

- 3.1 Acceptance of Technical bid strictly depends on National Institute of Technology, Agartala's requirements credentials, manufacturing capability, quality control systems, past performance, after-sales service, financial background, commercial terms & conditions etc. of the supplier(s).
- 3.2 Detailed Specifications, brand, make, model & parts number, tolerance limit, resolution, corresponding ISO standard etc. of quoted Equipments/Items should be mentioned with supported leaflet/catalogue/brochure and list of buyers for acceptance of technical bid.
- 3.3 The technical bid and the financial bid should be submitted through [www.eprocure.gov.in](http://www.eprocure.gov.in). The technical bids shall be opened and evaluated by the competent committee/authority. At the second stage, financial bids of only the technically qualified bidders shall be opened for further evaluation and recommendations for awarding the purchase order/contract.

It may specifically be mentioned whether quotation is strictly as per terms and conditions of the tender. Deviation, if any, must be spelt out specifically in technical bid. In the absence of this, the quotation may be rejected.

- 3.4 Installation & Commissioning: Within 15 (fifteen) days after delivery (if applicable).
- 3.5 The Quantity of each Item(s)/Equipment(s) may increase (as per Govt. Norms) or decrease at the time of issued of Purchase / Supply / Work Order. The Institute reserves right to purchase partly or not to purchase any item / cancel the entire process at any stage of procurement process.
- 3.6 Penalty: Penalty will be charged @ 0.5 % of per week or part thereof except for force majeure conditions for the unexecuted part of the supply/work order.
- 3.7 Arbitration: All disputes should be attempted to be resolve mutually between the National Institute of Technology, Agartala and the suppliers failing which jurisdiction of any Court of Agartala shall be applicable.
- 3.8 The successful bidder has to give at least 3-4 days on site training for each & every items/equipments by Certified Person (if required).
- 3.9 Model No. of the product should be given with catalogue (if any).
- 3.10 Items/Goods should be sent through Registered Transporter (preferably).
- 3.11 Bidders are required to upload a declaration on letter head stating that the bidder has not been black-listed & holiday listed by any Ministry/Department/Organization.





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**National Institute of Technology Agartala**

**AGARTALA - 799 046 (TRIPURA)**

- 3.12 Bidder(s) is/are required to upload a self-certificate as per applicability (Annexure- E or F) regarding offered item(s) as per Office Memorandum No. 6/18/2019-PPD dated 23-07-2022 & 24-07-2020 and Office Memorandum No. F.18/37/2020-PPD dated 8<sup>th</sup> February, 2021 issued by Department of Expenditure, Procurement Policy Division, Ministry of Finance, Govt. of India.
- 3.13 Bidders are requested to provide valid e-mail ID and phone number for further communication.
- 3.14 Bank A/C in the Exact Name of Bidder/Firm/Supplier with Name, A/C No., IFSC code must be furnished with technical bid.

Yours sincerely,

**Registrar**

National Institute of Technology  
Agartala – 799 046, Tripura



**Specification of different materials/ small instruments required for  
Refrigeration and Air Conditioning Laboratory**

| Sl. No | Item                             | Technical specification  | Qty.   |
|--------|----------------------------------|--|--------|
| 1      | Compressor                       | Type: Refrigeration Compressor, Hermetically Sealed, Reciprocating, Refrigerant Type: R22, Cooling Capacity: 2355 Kcal/hr type, Voltage 220-240 V AC, 1- Phase | 1 no.  |
|        |                                  | Type: Refrigeration Compressor, Hermetically Sealed, Reciprocating, Refrigerant Type: R134a, Cooling Capacity: 1411Kcal/hr, Voltage: 440VAC, 25MFD, 1- phase   | 1 no.  |
|        |                                  | Type: Refrigeration Compressor, Hermetically Sealed, Reciprocating, Refrigerant Type:R134a, Cooling Capacity: 0.25HP; Supply Voltage: 220-240 V AC, 1- Phase   | 1 no.  |
| 2      | Capillary tube                   | 1.12 mm OD, Material: Copper ASTM B280.  | 10 ft  |
|        |                                  | 1.20 mm OD, 8 ft, Material: Copper ASTM B280   | 8 ft   |
|        |                                  | 1.40 mm OD, Material: Copper ASTM B280   | 6 ft   |
|        |                                  | 0.95 mm OD, Material: Copper ASTM B280   | 6 ft   |
| 3      | Thermostatic Expansion Valve     | Orifice- 0 no., Connection-1/2" X 3/8" flare   | 1 no.  |
|        |                                  | TEN 068Z3348, Q-33311 R134a -40 to 10 Ps 34 bar.   | 1 no.  |
| 4      | Hand Stop /Manual Shut-off Valve | Media: R22, R502, R134A, R407c, R410A; Port Size: 3/8" SAE; Cooling Method: Direct Cooling; Power: Manual; including brass material nut bolt.                  | 5 nos. |
|        |                                  | Media: R22, R502, R134A, R407c, R410A; Port Size: 1/4" SAE; Cooling Method: Direct Cooling; Power: Manual; including brass material nut bolt.                  | 5 nos. |
| 5      | Evaporator Coil                  | 1/4" OD, Material: Copper ASTM B280  | 30 ft  |
| 6      | Condenser Coil                   | 3/8" OD, Material: Copper ASTM B280  | 50 ft  |
| 7      | Dimmer stat                      | 1500 W, 230 V AC. Single phase, 50Hz   | 1 no.  |
| 8      | Pressure Gauge                   | Connection 1/ NPT 8 0 - 200 psi Dial Size 2.5" (63mm), Connection sizes 1/4"   | 1 no.  |
| 9      | Digital Temperature Indicator    | Range -30 to 200 °C, Power supply 230VAC, Digital display, Accuracy ±0.01 °C Channel -12   | 1 no.  |
|        |                                  | Type -Input -CR-Al(K-Type), Rang- 0 °C to 200 °C Supply- 230VAC, 50Hz, Channel -12   | 1 no.  |

*[Signature]*  
3/9/24

*[Signature]*  
23/9/24



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|    |                              |  |        |
|----|------------------------------|--|--------|
| 10 | Ammeter (Digital)            | Rang 0-10 amp. Single Phase, Digital display, 230V, 10% VAC  | 2 nos. |
| 11 | Voltmeter (Digital)          | Rang 0-300-volt, Single Phase, Digital display   | 2 nos. |
| 12 | HP/LP cut out relay          | HP- 8 to 32 bar, LP-0.2 to 7.5 bar, dual controls, 240 V, 50 VA, Single pole changeover switch (SPDT), Contact load 240 V AC: 8 FLA, 48 LRA  | 2 nos. |
| 13 | Energy meter                 | A.C. Single Phase, 2 Wire Solid State (Static) Fully Electronic Energy Meter, Accuracy Class 1.0 & Current Rating 5-30 Amp. with Backlit LCD Display for 240 Volt System fitted with Pilfer Proof Meter Box. | 2 nos. |
| 14 | R-134a Refrigerant gas       | 5 Kg filled cylinder; Moisture Less than 0.001; Purity: 99.9%; Appearance: Colourless; Application: Refrigerant; type of refrigerant-R134a.  | 2 nos. |
| 15 | R-141b Refrigerant gas       | 5 Kg filled cylinder; purity 99.9% Appearance: Colourless  | 1 no.  |
| 16 | R502 Refrigerant gas         | 5 Kg filled cylinder; acidity 0.00001 % Appearance: Colourless Purity 99.9 %   | 1 no.  |
| 17 | R407c Refrigerant gas        | 5 Kg filled cylinder; Appearance: Colourless Purity 99.9 %   | 1 no.  |
| 18 | R-1234ze HFO Refrigerant gas | 5 Kg filled cylinder; Moisture Less than 0.001; Purity: 99.9%; Appearance: Colourless;   | 1 no.  |
| 19 | R-1234yf HFO Refrigerant gas | 5 Kg filled cylinder; Moisture Less than 0.001; Purity: 99.9%; Appearance: Colourless;   | 1 no.  |
| 20 | Filter and Drier             | CT 3/8" ( Refillable ) SH-48A filter element Applicable refrigerant: R22, R134a, R404A and R407C, Connection type: Copper or steel tube solder, Maximum working pressure 20 bar                              | 5 nos  |
|    |                              | CT 1/4" (Refillable), SH-48A filter element, Applicable refrigerant: R22, R134a, R404A and R407C, Connection type: Copper or steel tube solder, Maximum working pressure 20 bar.                             | 5 nos  |
| 21 | Glass Wool Sheet             | Thickness: 5 mm; Material: glass fiber; Type: Other Heat Insulation Materials; Color : Yellow, Size 2 sq. m  | 5 nos. |
| 22 | Steel Drum                   | Made- steel material, capacity- 10 lit; Thickness: 0.7 mm to 1.5 mm  | 2 nos. |
| 23 | Tube Cutter                  | Material: Cupper, 1/8" to 1/2" outside diameter.   | 1 no.  |
| 24 | Brazing Torch                | Copper Brazing Torch, Fuel Gas Type: oxygen-acetylene, Max Flame Temperature 550 degree C  | 1 Set  |
| 25 | Copper Tube Bender           | Material: Cupper, 1/4" to 3/8"   | 1 no.  |

*[Signature]*  
03/9/24

*[Signature]*  
03/9/24



|    |                                 |  |         |
|----|---------------------------------|--|---------|
| 26 | Socket Wrench                   | 1/2" drive and the 3/8" drive and the 1/4" drive, Material Stainless Steel, Type Ratchet Handle Wrench   | 1 Set   |
| 27 | Allen Key                       | Size (1.5, 2, 2.5, 3, 4, 5, 6, 8 & 10 mm)  | 1 Set   |
| 28 | Swagging Tool                   | Universal Hand Refrigeration Tools Copper Pipe Swaging Tool Tube Expander Diameter:(1/4" 5/16" 3/8" 1/2" 5/8" 3/4" 7/8") Material: Aluminum Alloy.   | 1 Set   |
| 29 | Nut Drivers                     | Size: 3/8-Inch tip, 6 inch Shaft, T-type Hex Insulated Nut Driver.   | 1 Set   |
| 30 | Letter Punch Stamp              | Material- Metal; Overall Length (Inch)- 6 Inch; Tip Size (mm) -3 mm; Finish Polished; Letter Size - 5 mm, letter A-Z, Number 0-9.  | 1 Set   |
| 31 | Refrigeration Gas Leak Detector | Audible ticker signal & visual leak size indicator; Adjustable sensitivity, fast warm-up; Goose neck probe; Warm up time: 6s; Sensitivity: adjustable, maximum 14g / yr(0.49oz/Yr); Alarm mode: Sound, light; Length of Probe: 23cm / 9M; Operating Temperature & Humidity: 0°C ~ 50°C with 90%RH; Power Supply: 1.5V AAA battery; Accessories: Instruction Manual, Battery & Carrying Case. | 2 nos.  |
| 32 | Slot angle Rack                 | Material- M. S; Thickness- 2mm, Breadth- 40mm; Length- 12 ft including nut bolt washer   | 15 nos. |
| 33 | Heater                          | 600W Electric Immersion Rod for Heating Water, Material: Metal & Plastic Color, 230 VAC, 50HZ  | 2 nos.  |
| 34 | MCB                             | Operating Voltage 240V, Single Pole 2Pole, 10 Amp,   | 4 nos.  |
| 35 | Toggle Switch                   | Toggle Actuator: Standard Toggle Handle, 240V, 10A, 6 points, DPDT, (For Voltmeter input selection Compressor/ water Heater)   | 5 nos.  |
| 36 | Rotameter                       | Medium: R134a, Maximum Pressure: 8 bar (g), Maximum Temperature: 60°C, Flow range: 6.5-65 LPH, Graduation Units: LPM Accuracy: $\pm 2\%$ , FSD Measuring Tube Borosilicate Glass Float Metallic (corrosion resistive material), Body and Covers Glass and MS Powder coated Type of Connection BSP Female rare and top end connection.  | 1 no.   |
| 37 | Switch                          | Power Supply Switch, 240V, AC 2 Pole, 10 Amp.  | 5 nos.  |
| 38 | Glass fuse                      | Big 10 Amp, Voltage: 240V, Material: Glass.  | 3 nos.  |
|    |                                 | Big 2 Amp, Voltage: 240V, Material: Glass.   | 3 nos.  |

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|    |                                 |   |                  |
|----|---------------------------------|---|------------------|
| 39 | AC motor for Condenser Fan      | Type of Motor: General Performance Induction Motor, Induction Motor, Mounting: Foot Mounting (B3), Body Material: Cast Iron, Speed: 1500 RPM, Standard: CE, IEC60034-1, Ref:IS12615:2011, Efficiency Class: IE3, Ambient Temperature: 60 Deg. C, Insulation Class: F Class<br>230V, 50 Hz, 1.5 KW, Single phase | 1 no.            |
| 40 | Thermostat                      | Type- SZ-7510-E/7569-E<br>Range: -40°C to 50°C.   | 2 nos.           |
| 41 | Flaring Nut                     | 1/4" (Brass Material)<br>3/8" (Brass Material)  | 1/2 Kg<br>1/2 Kg |
| 42 | Pressure Transmitter            | Wetted parts: Stainless steel, Ranges: from 1 to 25 bar, connection: 3/8" male, Application gases: R22, R134a, R404A and R407C  | 2 nos.           |
|    |                                 | Wetted parts: Stainless steel, Ranges: from 1 to 25 bar, connection: 1/4" male, Application gases: R22, R134a, R404A and R407C  | 2 nos.           |
| 43 | Digital Clam meter /Multi meter | DC Voltage Range -600 mV-1000 V<br>AC Current Range 60-1000 A AC Current<br>Accuracy± (2.5 % + 10 Digits)   | 1 no.            |
| 44 | Charging Kit                    | 10 Amps High Rate Charging.<br>Ideal for R12, R22 & R502 refrigerants.<br>Connect fittings with high pressure safety valve.<br>High Pressure: 0~500 PSI (0~35 kgf/cm <sup>2</sup> )<br>Low Pressure: 0~220 PSI (0~15.46 kgf/cm <sup>2</sup> )<br>Temperature Scale: Celsius                                     | 1 no.            |
| 45 | Accumulator                     | 3/8" HCFCs, MFCs Rang -40 °F to 40 °F<br>1/4" HCFCs, MFCs Rang -40 °F to 40 °F  | 1 no.<br>1 no.   |
| 46 | Solenoid Valve                  | 1/4", SKU PN.CO.DI.363110, Model No. PU520-D, 10 bar<br>3/8", SKU PN.CO.DI.363302, Model No. 4V-330-10, 2-8 bar   | 1 no.<br>1 no.   |
| 47 | Needle Valve                    | Media: R22,R502,R134A,R407c,R410A; Port Size: 3/8" SAE; 10 bar; Cooling Method: Direct Cooling; Power: Manual; including brass material nut bolt.   | 1 no.            |
| 48 | Needle Valve                    | Media: R22, R502, R134A, R407c, R410A; Port Size: 1/8" SAE; 10 bar; Cooling Method: Direct Cooling; Power: Manual; including brass material nut bolt.   | 3 nos.           |
| 49 | Electronic Scale                | Range: 1 to 10 Kg, Accuracy: 0.1; Display Type: LCD; Material: Stainless Steel.   | 1 no.            |
| 50 | Clamp Meter                     | Range: AC/DC 400 Volt; AC/DC 6A to 60A; Power: Two 1.5V 'AAA' Size Battery; Accuracy: ± (0.7% rdg + 4 dgt) on 40V & 400V; Overload Protection: 1200V DC/800V AC.  | 1 no.            |

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|    |  |  |       |
|----|--|--|-------|
| 51 | Copper Metal Foam                              | Cu, Pore Size: <1mm PPI: 110<br>Size: 500 x 500mm Thickness: 1mm<br>Density: 1256g/m <sup>2</sup> , Porosity: 50-98%   | 1 no. |
|    |  | Pore Size: 1-2mm(50PPI), Open Cell<br>Size: 500mm x 500mm x 2mm<br>Density: 850 g/m <sup>2</sup> , Porosity:80%  | 1 no. |
|    |  | Freight/ Tin   |       |
|    |  |  |       |
| 52 | Battery Charger for Automobile Air-Conditioner | 24/12 V and 10amp  | 1 no. |
| 53 | Thermocouple Wire                              | T-type-Thermocouple grade wire, -270 to 370C, Extension wire, Type T Accuracy (whichever is greater): Standard: +/- 1.0C or +/- .75% Special Limits of Error: +/- 0.5C or 0.4% | 10 m  |

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02/9/24





# राष्ट्रीय प्रौद्योगिकी संस्थान अगरतला

National Institute of Technology Agartala

AGARTALA - 799 046 (TRIPURA)

No.F.NITA.11(11-ME)/RAC Lab/2024-25/

Date: / /2024

## **ANNEXURE – B**

### **PRICE BID**

As per BOQ





# राष्ट्रीय प्रौद्योगिकी संस्थान अगरतला

**National Institute of Technology Agartala**  
AGARTALA - 799 046 (TRIPURA)

No.F.NITA.11(11-ME)/RAC Lab/2024-25/

Date: / /2024

## ANNEXURE - C

### Documents for Comprising the Bid

| Sr.No. | TENDER REQUIREMENT   | COMPLIANCE | Document Submitted |
|--------|--|------------|--------------------|
| 1      | Name of the Firm / Agency / Dealer / Supplier with full address including contact number and email id etc.   | Yes / No   | Yes / NA           |
| 2      | Trade License issued by Government / Statutory Body or Company Registration on the item(s) related to this tender.   | Yes / No   | Yes / NA           |
| 3      | GST Registration of the Supplier/Firm/Bidder.  | Yes / No   | Yes / NA           |
| 4      | PAN Registration of the Supplier/Firm/Bidder   | Yes / No   | Yes / NA           |
| 5      | Financial Solvency issued by Bank(as per RBI guidelines) (in case of estimated cost is Rs.25.00 lakhs and above).  | Yes / No   | Yes / NA           |
| 6      | Up to date GST return / any other tax clearance certificate. (last filed GST return)   | Yes / No   | Yes / NA           |
| 7      | Up to date Income Tax Return (Last filled ITR)   | Yes / No   | Yes / NA           |
| 8      | "Bid Security Declaration form" on Company Letter Head (Scanned copy to be uploaded along with Technical bid).   | Yes / No   | Yes / NA           |
| 9      | Service Support details (if applicable)  | Yes / No   | Yes / NA           |
| 10     | Certification of holiday and non-black listing (Self Certification)  | Yes / No   | Yes / NA           |
| 11     | Certification as per memorandum No. F.18/37/2020-PPD dated 8 <sup>th</sup> February 2021, Dept. of Expenditure, Ministry of Finance, Govt. of India (Self Certification) | Yes / No   | Yes / NA           |
| 12     | Proprietary Certificate from OEM to be uploaded along with the Technical Bid in case of Proprietary items  | Yes / No   | Yes / NA           |
| 13     | Manufacturers Authorization Form (MAF) (if applicable)   | Yes / No   | Yes / NA           |
| 14     | Certificate under MSME, NSIC, Make-in-India & Startup as per Govt. of India Norms (if applicable).   | Yes / No   | Yes / NA           |
| 15     | Experience, if any, with govt. sector /Public Undertaking /Private sector (if applicable) (May be relaxed for MSME, NSIC & Startup as per Govt. of India Norm)           | Yes / No   | Yes / NA           |
| 16     | Any other criteria related to this tender.   | Yes / No   | Yes / NA           |
| 17     | Supplier/Firm/Bidder should accept all Terms & Conditions and specification of the items given in the Tender Document.   | Yes / No   |                    |

(Signature of the bidder)





# राष्ट्रीय प्रौद्योगिकी संस्थान अगरतला

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No.F.NITA.11(11-ME)/RAC Lab/2024-25/

Date: / /2024

## **Annexure-D**

### **Bid Securing Declaration Form**

Date:..... Tender Ref. No: ..... Tender ID: .....

To (insert complete name and address of the purchaser)

I/We. The undersigned, declare that:

I/We understand that, according to your conditions, bids must be supported by a Bid Securing Declaration.

I/We accept that I/We may be disqualified from bidding for any contract with you for a period of one year from the date of notification if I am /We are in a breach of any obligation under the bid conditions, because I/We

a) have withdrawn/modified/amended, impairs or derogates from the tender, my/our Bid during the period of bid validity specified in the form of Bid; or

b) having been notified of the acceptance of our Bid by the purchaser during the period of bid validity (i) fail or reuse to execute the contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the Instructions to Bidders.

I/We understand this Bid Securing Declaration shall cease to be valid if I am/we are not the successful Bidder, upon the earlier of (i) the receipt of your notification of the name of the successful Bidder; or (ii) thirty days after the expiration of the validity of my/our Bid.

Signed: (insert signature of person whose name and capacity are shown)

in the capacity of (insert legal capacity of person signing the Bid Securing Declaration)

Name: (insert complete name of person signing the Bid Securing Declaration)

Duly authorized to sign the bid for an on behalf of (insert complete name of Bidder)

Dated on \_\_\_\_\_ day of \_\_\_\_\_ (insert date of signing)

Corporate Seal (where appropriate)

(Note: In case of a Joint Venture, the Bid Securing Declaration must be in the name of all partners to the Joint Venture that submits the bid)





# राष्ट्रीय प्रौद्योगिकी संस्थान अगरतला

National Institute of Technology Agartala

AGARTALA - 799 046 (TRIPURA)

No.F.NITA.11(11-ME)/RAC Lab/2024-25/

Date: / /2024

## Annexure-E

(Compliance to be submitted in the bidder's letterhead)  
(as applicable)

Sub: Compliance to Government of India order OM No.6/18/2019-PPD dated 23.07.2020 & 24.7.2020 and OM No. F.18/37/2020-PPD dated 8th February, 2021 regarding restrictions under Rule 144 (XI) of the General Financial Rules (GFRs), 2017.

|              |  |
|--------------|--|
| Item Name:   |  |
| Enquiry No.: |  |

We M/s. ....(name of the bidder company) have read the clauses pertaining to the Department of Expenditure's (DoE) Public Procurement Division Order (Public procurement no 1,2 & 3 vide ref. F.No.6/18/2019-PPD dated 23.07.2020 & 24.7.2020) regarding restrictions on procurement from a bidder of a country that shares a land border with India.

We hereby certify that **we are not from such a country** and eligible to be considered for this tender.

(Note: Non-compliance of above said GoI Order and its subsequent amendment, (if any), by any bidder(s) shall lead to commercial rejection of their bids by NIT-Agartala)

For and behalf of .....(Name of the bidder)

(Signature, date & seal of an authorized representative of the bidder)





# राष्ट्रीय प्रौद्योगिकी संस्थान अगरतला

National Institute of Technology Agartala

AGARTALA - 799 046 (TRIPURA)

No.F.NITA.11(11-ME)/RAC Lab/2024-25/

Date: / /2024

## Annexure-F

(Compliance to be submitted in the bidder's letterhead)  
(as applicable)

Sub: Compliance to Government of India order OM No.6/18/2019-PPD dated 23.07.2020 & 24.7.2020 and OM No. F.18/37/2020-PPD dated 8th February, 2021 regarding restrictions under Rule 144 (XI) of the General Financial Rules (GFRs), 2017.

|              |  |
|--------------|--|
| Item Name:   |  |
| Enquiry No.: |  |

We M/s. .... (name of the bidder company) have read the clauses pertaining to the Department of Expenditure's (DoE) Public Procurement Division Order (Public procurement no 1,2 & 3 vide ref. F.No.6/18/2019-PPD dated 23.07.2020 & 24.7.2020) regarding restrictions on procurement from a bidder of a country that shares a land border with India.

**We are from such a country** which shares a land border with India & have been registered with the Competent Authority as specified in the above-said order. We hereby certify that we fulfill all requirements in this regard and are eligible to be considered.

Evidence of valid registration by the Competent Authority is attached.

(Note: Non-compliance of above said GoI Order and its subsequent amendment, (if any), by any bidder(s) shall lead to commercial rejection of their bids by NIT-Agartala)

For and behalf of .....(Name of the bidder)

(Signature, date & seal of an authorized representative of the bidder)





# राष्ट्रीय प्रौद्योगिकी संस्थान अगरतला

National Institute of Technology Agartala

AGARTALA - 799 046 (TRIPURA)

No.F.NITA.11(11-ME)/RAC Lab/2024-25/

Date: / /2024

## Annexure -G

### Self-Certification on the letterhead of the company

In line with Government Public Procurement Order No. P-45021/2/2017-BE-II dt. 15.06.2017, P-45021/2/2017-PP (BE-II) dated 28.05.2018, P-45021/2/2017-PP (BE-II) dated 29.05.2019 and P-45021/2/2017-PP (BE-II) dated 16.09.2020,

We hereby certify that ..... (Supplier name) are local supplier meeting requirement of minimum local content..... % defined in as above orders for the material against Enquiry / Tender No ..... dated.....

Details of the location at which local value addition will be made are as follows:

.....  
.....  
.....  
.....

We also understand false declarations will be in breach of the Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permitted under law.

Date:

Place:

Signature:

Name and Designation:

Mobile no:

Office Telephone No:

Email ID: Office Seal





राष्ट्रीय प्रौद्योगिकी संस्थान अगरतला

National Institute of Technology Agartala

AGARTALA - 799 046 (TRIPURA)

No.F.NITA.11(11-ME)/RAC Lab/2024-25/

Date: / /2024

Annexure -H

**NON BLACKLISTING SELF CERTIFICATE**

[To be submitted on letterhead]

I/We hereby certify that the ----- [Name of the company / firm] has not been ever blacklisted/debarred by any Central / State Government / Public Undertaking / University / Institute on any account.

I/We also certify that firm will provide material as per the specification given by NIT Agartala and also abide all the terms and conditions stipulated in the bid document.

I/We also certify that the information given in bid is true and correct in all aspects and in any case at a later date it is found that any details provided are false and incorrect, contract given to the concerned firm or participation may be summarily terminated at any stage, the firm will be blacklisted and NIT Agartala may impose any action as per the rules.

Date :

Place :

Name :

Business Address:

Signature of Service Provider:

Seal of the Service Provider: