

वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्
Council of Scientific & Industrial Research
राष्ट्रीय वांतरिक्ष प्रयोगशालाएं
National Aerospace Laboratories



CSIR - NAL Estd. 1959
ISO 9001 : 2015
Certified Organization

INVITATION FOR BIDS/NIT

Tender No. NAL/PUR/ELK/074/19-Y(AMC)

Dated: 16-Dec-19

CSIR- National Aerospace Laboratories (NAL), Bengaluru, India is one of the premier laboratories under Council of Scientific and Industrial Research (CSIR), an autonomous body under Department of Scientific and Industrial Research, Government of India, New Delhi. CSIR-NAL is a Science and Knowledge based Research, Development and Consulting Organization. It is internationally known for its excellence in Scientific Research in Aerospace Engineering.

The Director, CSIR-NAL invites online quotation for procurement of the following item(s) for day to day research work.

| Sl.No. | Description of Items | Unit | Quantity |
|--------|---|------|----------|
| 1 | AMC for (-20 °C) walk in cold room installed at ACD Phase - I Building. | Nos | 2 |
| 2 | AMC for (+4 °C) walk in freezer room installed at ACD Phase - I Building. | Nos | 2 |
| 3 | AMC for (-20 °C) walk in cold room installed at ACD Main Building. | Nos | 2 |
| 4 | AMC for walk-in/step-in chiller & Reach-in-Freezer facility installed at Canteen. | No | 1 |

Please refer Annexure for detailed specification.

| | |
|-----------------------------|---|
| Single / Double Bid | Single |
| Bid Security (EMD) (in INR) | Bid Security Declaration should be enclosed with quotation. |
| Performance Security | Nil |

01. Tender Documents may be downloaded from Central Public Procurement Portal <https://www.etenders.gov.in>. Aspiring Bidders who have not enrolled/ registered in e- procurement should enroll/ register before participating through the website <https://www.etenders.gov.in>. The portal enrolment is free of cost. Bidders are advised to go through instructions provided at 'Instructions for online Bid Submission'.
02. Tenderers can access tender documents on the website (For searching in the NIC site <https://www.etenders.gov.in>, kindly go to Tender Search option, select tender type and select ' Council of Scientific and Industrial Research' in organization tab and select NAL-Bengaluru-CSIR in department type Thereafter, Click on "Search" button to view all CSIR-NAL, Bengaluru tenders). Select the appropriate tender and fill them with all relevant information and submit the completed tender document online on the website <https://www.etenders.gov.in> as per the schedule given in the next page.
03. Either the Indian Agent on behalf of the Foreign principal or the Foreign principal can bid directly in a tender but not both. However, the offer of the Indian Agent should also accompany the authorization letter from their principal. To maintain sanctity of tendering system, one Indian Agent cannot represent two different Foreign principals in one tender.
04. Unsolicited / conditional / unsigned tenders (Quotations) **shall not** be considered. Quotations received after the due date and time **shall be summarily rejected**.
05. The Bidder shall comply the terms and conditions of the tender, failing which, the offer shall be liable for rejection.
06. The Director, CSIR- National Aerospace Laboratories., Bengaluru reserves the right to accept any or all the tenders either in part or in full or to split the order without assigning any reasons there for.

Raman Kumar
(Section Officer S&P)

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P B No 1779, HAL Airport Road, Kodihalli, Bengaluru - 560 017, INDIA
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SCHEDULE CUM CRITICAL DATE SHEET

| | | | |
|----|---|---|----------|
| 1 | Name of Organization | CSIR-National Aerospace Laboratories, Bengaluru | |
| 2 | Tender Reference No | NAL/PUR/ELK/074/19-Y(AMC) dated: 16-Dec-19 | |
| 3 | Tender Type (Open/Limited/EOI/Auction/Single) | Single | |
| 4 | Type/Form of Contract (Work / Supply / Auction / Service / Buy / Empanelment / Sell) | Service | |
| 5 | No of Covers (One/Two/Three/Four) | One | |
| 6 | Tender Category (Services/Good/Works) | Service | |
| 7 | Allow Resubmission (Only in online mode within scheduled period) | Yes | |
| 8 | Allow Withdrawal (Only in online mode within scheduled period) | Yes | |
| 9 | Allow Offline Submission | No | |
| 10 | Work Item Title | AMC for (-20°C) walk in cold room installed at ACD Phase - I Building, AMC for (+4°C) walk in freezer room installed at ACD Phase - I Building, etc. | |
| 11 | Work Description | AMC for (-20°C) walk in cold room installed at ACD Phase - I Building, AMC for (+4°C) walk in freezer room installed at ACD Phase - I Building, etc. | |
| 12 | Delivery Schedule | 90 days from the date of purchase order | |
| 13 | Product Category (Civil Works / Electrical Works / Fleet Management / Computer Systems) | R & D Equipment | |
| 14 | Is Multi Currency Allowed | Yes | |
| 15 | a) Tender Publishing Date - | 17-Dec-19 | 1800 Hrs |
| | b) Document Download Start Date- | 17-Dec-19 | 1800 Hrs |
| | c) Bid Submission Start Date- | 17-Dec-19 | 1800Hrs |
| | d) Bid Submission End Date- | 26-Dec-19 | 1000 Hrs |
| | e) Bid Opening Date- | 27-Dec-19 | 1100 Hrs |
| 16 | Bid Validity Days | 90 days | |
| 17 | Address for communication | Stores and Purchase Officer CSIR-National Aerospace Laboratories, HAL Airport Road, Kodihalli, Bengaluru - 560017 | |
| 18 | Inviting Officer | Director, CSIR-NAL | |
| 19 | Contact No | 25086040, 25086041 | |
| 20 | E-mail Address | purchasek@nal.res.in | |
| 21 | Detailed specification of item | Refer Invitation for bids / NIT | |
| 22 | Tender Terms & Conditions & Instruction for online bid submission | The prospective bidders are requested to refer to the Standard Tender Document available on NAL Internet (www.nal.res.in) under the icon Tender-Purchase before formulating and submitting their bids | |

Note:

- a) **Participation in this tender is by invitation only and is limited to the selected bidders. Unsolicited offers are liable to be ignored. However, bidders who desire to participate in such tenders in future may bring it to the notice of Procuring Entity and apply for registration.**

- b) **To get registered as an approved bidder with the procuring entity please refer our website www.nal.res.in and submit**

| ANNEXURE FOR PREVENTIVE MAINTENANCE / ANNUAL SERVICE SCHEDULE FOR COLD STORAGE / WALK -FREEZER | | | |
|---|-----------------------------------|--|--|
| Sl. No. | EQUIPMENT | QUARTERLY INSPECTION AND SERVICE | ANNUAL INSPECTION AND PRIOR TO EXPIRY OF CONTRACT |
| 1. | AIR COOLED CONDENSING UNIT | <ol style="list-style-type: none"> 1. Check refrigerant level. If abnormal, trace and rectify as necessary, inform department in writing on the rectification. 2. Check the cleanliness of condensing unit coil. If found any dust same has to be cleaned through water. 3. Check the refrigerant of liquid and suction line of the condensing unit and also suction line insulation. If it is found any leak and damage of insulation same has to be rectified / replaced. 4. Check the HP / LP switch and their settings and functioning. 5. Check the condition of the condensing unit fan and direction of fan. 6. Check the power terminals of the compressor, condensing fan etc., if found any loose connection same has to be set tightened. 7. Check the oil level of the condensing unit. 8. Check the condensing unit mounting bolt & ant-vibrating pad. If it is found loose/vibration same has to be set righted. 9. Check the liquid line sight glasses for proper flow. 10. Check all operating pressure and temperature. 11. Inspect and adjust, if required, all operating safety controls. 12. Check capacity controls adjust if necessary. 13. Lubricate vane / linkage / bearings. 14. Visually inspect machine and associated components, and listen for unusual sound or noise for evidence of unusual conditions. | <ol style="list-style-type: none"> 1. Check all the functions for normal operation. 2. Check all flare nuts for tightness. 3. Check oil temperature control. 4. Check the compressor motor terminals. 5. Check connections in starter. 6. Check motor earthing, megger motor and connection wiring. 7. Check starter contacts. 8. Check the overload setting. 9. Inspect and adjust all gauges, safety and operating controls including low temperature and high pressure cutout, oil pressure switch, load limit relay and electrical interlocks. 10. For air-cooled condenser coils, dust should not be allowed to accommodate on the condenser coil surfaces. Cleaning should be as often as necessary (approximately every three months) to keep coil clean. Exercise care when cleaning the coil, so that the coil fins are not damaged. Under no circumstances this unit is cleaned with acid based cleaner. |

| | | | |
|----|----------------------------|--|--|
| | | <ol style="list-style-type: none"> 15. Check lock bolts and chiller spring mount. 16. Review daily operating log maintained by department's operating personnel. 17. Providing written report to department, outlining services carried out, adjustments made, rectification carried out and if the deficiency is of a major nature, arrange with department for shut-down to rectify equipment. | |
| 2. | EVAPORATOR UNIT | <ol style="list-style-type: none"> 1. Check the evaporator units. 2. Check the evaporator fan motor directions. 3. Check the evaporator coils and if it is any ice formation same has to be cleared. 4. Check the tray heater of the evaporator unit and its functioning (like whether defrosting is happening as per the cycle) 5. Check the connection and terminals of evaporator fan. 6. Check the door heaters and its functioning. 7. Check all bolts and nuts for tightness and tighten of the mounting stand evaporator units as required. 8. Check the functioning of sensors. | <ol style="list-style-type: none"> 1. To clean the evaporator unit coil through water. 2. Check the connection of evaporator fan and direction. 3. Check all the tray heaters connection and its functioning. 4. Perform all functions listed in the Quarterly checks. |
| 3. | SWITCH BOARDS PANEL | <ol style="list-style-type: none"> 1. Clean and adjust all switchgear, contactors, relays and associated electrical equipment at intervals 2. Check and prove operation of thermal over load and protection devices. 3. Check and ensure tightness of all equipment fastenings and cable terminations within switchboards. 4. Check the PLC panel and its functioning. 5. Check the functioning of soft starters. 6. Cleaning of all switch board panels. 7. Check all the switchgear if it is found faulty like soft starters, MCCB, MPCB, MCB, CTs, Multidata meter, Hooters, contactors, over load relays, timers, indication lamps, illuminated push buttons, fuses and other components replace with reputed make. | <ol style="list-style-type: none"> 1. Perform all functions listed in the Quarterly checks. |

**NATIONAL AEROSPACE LABORATORIES,
BANGALORE – 560 017**

SCOPE OF CONTRACT

1.0 SCOPE OF WORK:

The cold storage plant as listed in schedule of quantities will be under the “**COMPREHENSIVE / ANNUAL MAINTENANCE CONTRACT**”

Under the **COMPREHENSIVE / ANNUAL MAINTENANCE** service contract, the contractor shall maintain -20° C cold storage plants & +4 °C walk in freezer room as indicated in schedule of quantities in good working condition throughout the period of contract. For this purpose, the contract shall have full-fledged workshop with all servicing facilities and also adequately manned. The workshop shall be equipped with all essential spare parts for all the categories of equipment. The cost of all replacement / repairs of spares such as compressors, fan motors, condensers, filling of gas repairs etc., shall be the responsibility of the contractor at his own cost and maintenance should be borne by the contractor.

The workshop shall be well equipped with all tools, testing equipments for servicing arrangements such as vacuum pump, blow lamps, voltage and current test boxes etc

- 2.0** The contractor shall make his own gas fillings, brazing and welding arrangements in the place of workshop at his own cost.
- 2.01 Sufficient stock of spare parts for all kinds of machines shall be kept in his stores. The contractor shall ensure that no machine is idle due to non-availability of spare parts.
- 2.02 The contractor shall send an experienced mechanics and sufficient labour force with supervisor at site to attend the complaints immediately.
- 2.03 The contractor shall check all the plants once in every month for its efficient operation.
- 2.04 The contractor shall maintain all the plants in perfect running condition throughout the contract period and they will be handed over to CSIR-NAL in working condition on the eve of the expiry of the contract period.
- 2.05 The contractor shall not do any private jobs in CSIR-NAL premises.
- 2.06 The maintenance of the plants shall be according to the preventive maintenance schedule as a broad guideline and also other such necessary action.
- 2.07 The contractor shall maintain the register in which he will get the signature from the users after attending the complaints and the same will be counter signed by the officer in charge in Electrical Section.
- 2.08 Contractor shall be called to attend the complaints during any time and on holidays in some very special cases. They shall attend the complaints without any extra charges.
- 2.09 Normal code of ethics and discipline has to be followed by the contractor's labour while working at site.
- 2.10 Normal working hours followed by CSIR-NAL have to be adhered to by the contractor's labour except under special circumstances where prior permission has to be obtained from the officer in charge in Electrical Section.
- 2.11 The contractor and his staff shall be allowed to enter the factory premises on production of valid gate passes authorized by CSIR-NAL.

- 2.12 The preventive maintenance / service at every quarterly (3 months), annual maintenance (12 months) service and service on prior to expiry of the contract shall be carried out as per the annexure enclosed.
- 2.13 All the components like Compressors, relays, indication lamps, valves, gauges, strainers / filters, instruments, switches, timers, heaters, , MPCB, HRC fuse links, MCCB, MCB, contactors and other accessories etc., are of standard make available in the market. During contract period, if any failure or malfunctioning found, the vendor shall replace or repair the same with similar make of the component. If the components are not available, the same may be replaced with equivalent available from any standard manufacturers in the market.
- 2.14 POWER SUPPLY:**
- 2.14.1 CSIR-NAL shall not guarantee the quality of supply of electricity and no compensation shall be for any failure due to short supply of electricity by the company shall be entertained.
- 2.14.2 All temporary power lines and other works laid by the contractor shall conform to the Indian Electricity Act and the rules may there be under and subjected to the approval of the officer in charge in Electrical Section.
- 3.0 RESPONSIBILITY OF CSIR-NAL:** NAL shall hand over all the plants indicated in the schedule of quantities to the contractor in good working condition prior to the starting of the contract and the.
- 4.0 Payment: After successful completion of every quarter for the period of 3 months.**
- 5.0 AMC Period: 3 Years** (However, the AMC order will be placed for one year and the same is renewed for the subsequent period after successful completion of the first year and based on the performance during the year).

Tender No.: NAL/PUR/ELK/074/19-Y

BID-SECURING DECLARATION FORM

Date: _____

Bid No. _____

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:

1. 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.
2. Bid Security declaration must be signed in by the Proprietor/CEO/MD or equivalent level of Officer of the company.