

	<p style="text-align: center;">INDIAN INSTITUTE OF TECHNOLOGY MADRAS Chennai 600 036</p> <p style="text-align: center;">Telephone: (044) 2257 4426 E-mail: balajis@ee.iitm.ac.in</p>	
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Prof. Balaji Srinivasan
Project Coordinator

Ref: ELE/2018/BALA/SWCR
Dated: 07.09.2018

Limited Tender No: ELE/2018/BALA/SWCR

Due Date: 26.09.2018, 1:00pm

Pre-Bid meeting on 12th September, 2018 at Research and Innovation Centre (RIC), DRDO, IIT Madras Research Park (5th Floor).

Technical Bid opening meeting on Due Date: 26.09.2018, 2:00pm

Dear Sir/Madam,

On behalf of the Indian Institute of Technology Madras, offers are invited for the supply of “Cleanroom of Class 10,000 (ISO-7)” conforming to the specifications given in **(Annexure-I)**:

Instructions to the Bidder

- I. **Preparation of Bids:** - The Limited tenders should be submitted under one bid system (i.e.) Technical-cum-Financial bid.
- II. **Delivery of the tender:** - The tender shall be sent to the below-mentioned addresses either by post or by courier so as to reach the following address before the due date and time specified in our Schedule:
Prof. Balaji Srinivasan
Dept. of Electrical Engg, IIT Madras
Chennai - 600 036.

In case of foreign vendors, the technical-cum-financial bid may be sent as separate files (with password protection) along with other required documents to balajis@ee.iitm.ac.in. The bids must have the tender reference number mentioned clearly. Password should send at least one day before tender opening date.

- III. **Opening of the tender:** - The offer/Bids will be opened by a committee duly constituted for this purpose.
- IV. **Prices:** - The price should be quoted in net per unit (after breakup) and must include all packing and delivery charges to **Research and Innovation Centre (RIC), DRDO, IIT Madras Research Park.**

The offer/bid should be exclusive of taxes and duties. The percentage of tax & duties should be clearly indicated separately. IIT Madras is eligible for concessional GST and relevant certificate will be issued.

In case of import supply, the price should be quoted without custom duty. IIT Madras is exempted from levy of IGST on Imports and eligible for concessional custom duty (not exceeding 5%) and the price should be quoted on EX-WORKS and CIP basis indicating the mode of shipment.

- V. **Agency Commission:** - Agency commission, if any, will be paid to the Indian agents in Rupees on receipt of the equipment and after satisfactory installation. Agency Commission will not be paid in foreign currency under any circumstances. The tenderer should indicate the percentage of agency commission to be paid to the Indian agent. The foreign Principal should indicate about the percentage of payment and it should be included in the originally quoted basic price, if any.
- VI. **Terms of Delivery:** - The item should be supplied to our Departments as per Purchase Order. In case of import supply, the item should be delivered at the cost of the supplier to our Institution. The Installation/Commissioning should be completed as specified in our important conditions.
- VII. **Technical-cum-financial bid opening:** The bids will be opened on **26.09.2018, 2:00pm** at the Department of Electrical Engineering, IIT Madras.
- VIII. IIT Madras reserves the full right to accept / reject any tender at stage without assigning any reason.

Yours sincerely,

Prof. Balaji Srinivasan
Department of Electrical Engineering,
IIT Madras
Chennai - 600 036.

SCHEDULE

Important Conditions of the tender

1. The due date for the submission of the tender is **26.09.2018, 1:00pm**.
The offers / bids should be submitted in one bid systems (i.e.) Technical-cum-financial bid. Also, it should contain all Commercial Terms and Conditions including Taxes, transportation, packing & forwarding, installation, guarantee, payment terms, pricing terms etc. The bid should be put in cover and sealed. The Limited Tender for supply of “**Cleanroom of Class 10,000 (ISO-7)**” should be written on the left side of the cover.
2. If an Indian agent is involved, the following documents must be enclosed:
Foreign principal's proforma invoice indicating the commission payable to the Indian Agent and nature of after-sales service to be rendered by the Indian Agent.
 - ✓ Copy of the agency agreement with the foreign principal and the precise relationship between them and their mutual interest in the business.
3. Original catalogue (not any photocopy) of the quoted model duly signed by the principals must accompany the quotation in the Technical-cum-financial bid.
4. Compliance or Confirmation report with reference to the specifications and other terms & conditions should also be obtained from the principal.
5. **Validity:** Validity of Quotation not less than 60 days from the due date of tender.
6. **Delivery Schedule:** - The tenderer should indicate clearly the time required for delivery of the item. In case there is any deviation in the delivery schedule, liquidated damages clause will be enforced or penalty for the delayed supply period will be levied.
7. **Risk Purchase Clause:** - In the event of failure of supply of the item/equipment within the stipulated delivery schedule, the purchaser has all the right to purchase the item/equipment from other sources on the total risk of the supplier under risk purchase clause.
8. **Payment:** - No Advance payment will be made for Indigenous purchase. However 90% Payment against Delivery and 10% after installation are agreed to wherever the installation is involved. In case of import supplies the payment will be made only through 100% Letter of Credit i.e. (90% payment will be released against shipping documents and 10% after successful installation wherever the installation is being done).
9. **Advance Payment:** - In specific cases, an exception can be made upon recommendation of Principal Investigator (No bank guarantee).
10. **Warranty/Guarantee:** - The offer should clearly specify the warranty or guarantee period for the machinery/equipment. Any extended warranty offered for the same has to be mentioned separately. (For more details please refer our Technical Specifications).

11. **Late offer:** - The offers received after the due date and time will not be considered. The Institute shall not be responsible for the late receipt of Tender on account of Postal, Courier or any other delay.
12. **Acceptance and Rejection:** - I.I.T. Madras has the right to accept the whole or any part of the Tender or portion of the quantity offered or reject it in full without assigning any reason.
13. **Do not quote the optional items or additional items unless otherwise mentioned in the Tender documents / Specifications.**
14. **Disputes and Jurisdiction:** -
 - a. **Settlement of Disputes:** Any dispute, controversy or claim arising out of or in connection with this PO including any question regarding its existence, validity, breach or termination, shall in the first instance be attempted to be resolved amicably by both the Parties. If attempts for such amicable resolution fails or no decision is reached within 30 days whichever is earlier, then such disputes shall be settled by arbitration in accordance with the Arbitration and Conciliation Act, 1996. Unless the Parties agree on a sole arbitrator, within 30 days from the receipt of a written request by one Party from the other Party to so agree, the arbitral panel shall comprise of three arbitrators. In that event, the supplier will nominate one arbitrator and the Project Coordinator of IITM shall nominate one arbitrator. The Dean IC&SR will nominate the Presiding Arbitrator of the arbitral tribunal. The arbitration proceedings shall be carried out in English language. The cost of arbitration and fees of the arbitrator(s) shall be shared equally by the Parties. The seat of arbitration shall be at IC&SR IIT Madras, Chennai..
 - b. **The Applicable Law:** This Purchase Order shall be construed, interpreted and governed by the Laws of India, Court at Chennai shall have exclusive jurisdiction subject to the arbitration clause.
 - c. Any legal disputes arising out of any breach of contract pertaining to this tender shall be settled in the court of competent jurisdiction located within the city of Chennai in Tamil Nadu.
15. All Amendments, time extension, clarifications etc., will be uploaded on the website only and will not be published in newspapers. Bidders should regularly visit the above website to keep themselves updated. No extension in the bid due date/ time shall be considered on account of delay in receipt of any document by mail.

Acknowledgement: - It is hereby acknowledged that the tenderer has gone through all the conditions mentioned above and agrees to abide by them.

**SIGNATURE OF TENDERER
ALONG WITH SEAL OF THE COMPANY WITH DATE**

Installation of Cleanroom of Class 10,000 (ISO-7)

Limited tender is invited from interested vendors to install the cleanroom (CR) of Class 10,000 (ISO-7) at Research and Innovation Centre (RIC), DRDO, IITM Research Park, Chennai. Terms and conditions of this tender with the general specification of cleanroom are given below:

General Specifications:

- | | |
|------------------------------|--|
| 1. Cleanroom Class: | Class 10,000 (ISO-7) |
| 2. Cleanroom Dimensions: | 12'×12'×8' (Original room size 16'×15.4'×12' – Sample schematic of the room is provided below) |
| 3. Particle Count: | < 352,000± 5% (in per cubic meter with 0.3 µm filter, to be measured as part of CR validation) |
| 4. Average Airflow Velocity: | 16 ft/min (to be measured at 3' above ground level as part of CR validation). |

- CR operating conditions: Temperature 24 ± 1°C; Humidity 50 ± 5%

Terms and Condition:

1. A pre-bid meeting will be held to review and discuss the cleanroom design on scheduled date 12/09/2018 at RIC, DRDO, IITM Research Park (5th floor). Vendors intending to bid are highly encouraged to fix an appointment (balajis@ee.iitm.ac.in) and come with their preliminary proposal/design.
2. Validation of constructed cleanroom is mandatory and 15% of total order amount will be released only after validation. Validation will include measuring the cleanroom parameters (like particle count and average airflow velocity, etc.) as per ISO standards at different stages as-built, at-rest and operational; Validation conditions will be discussed in detail and finalized at the time of the pre-bid meeting.
3. Installation of cleanroom will be done at Research & Innovation Centre, DRDO, IITM Research Park, Chennai.
4. Electrical connections and related work will be facilitated by the RIC, DRDO; but vendor will install Cable Management System (CMS). Two nos. existing light source (2'×2') will be provided by RIC. At least 8 other individually switchable LED lamps (>10 W) have to be provided in the CR area.
5. Equipment racks (6' long, 2' wide, 5' height) with electrostatic protection and electrical outlets (4 nos. of 5 A outlet + 1 no. of 15 A outlet on either side of the table) that connect to main power through 10 feet long electrical cables may be provided as an option.
6. Fan Filter Units (FFUs) to be connected with the existing A/C ducts via 12" dia flexible hoses/ pipes.
7. The noise level inside the CR should be within the permissible working limit (<65 dB).
8. Aluminium frames, compatible with the Fan Filter Unit (FFU), will be provided by the vendors to support and fix the necessary cleanroom fan filter unit.
9. Aluminium frame to be used for the CR (enclosure) wall to support the Glass/Perspex sheets on all the sides and roof.
10. Aluminium framed with Glass/Perspex sliding door to be used for the entrance to the CR.
11. The remaining portion of the ceiling will be covered and fixed using Perspex sheets by the vendor.
12. The CR wall construction should be of a removable type to bring large dimension equipment (Entrance side).
13. The walls of the cleanroom to be painted with Epoxy paint for easy wiping and to avoid dust settlement on the walls of the room.(Optional)

14. The floor of the 16x16' rooms already has an antistatic conductive sheet with grounding.
15. Vendors to indicate the power supply requirements when they come for the pre-bid meet.
16. Two laser safety curtains (compliance with Class IV lasers) of sizes, i.e. 16'x9' and 4'x9' will be supplied by the vendor (Optional).
17. Please quote all Optional Items as separate line items

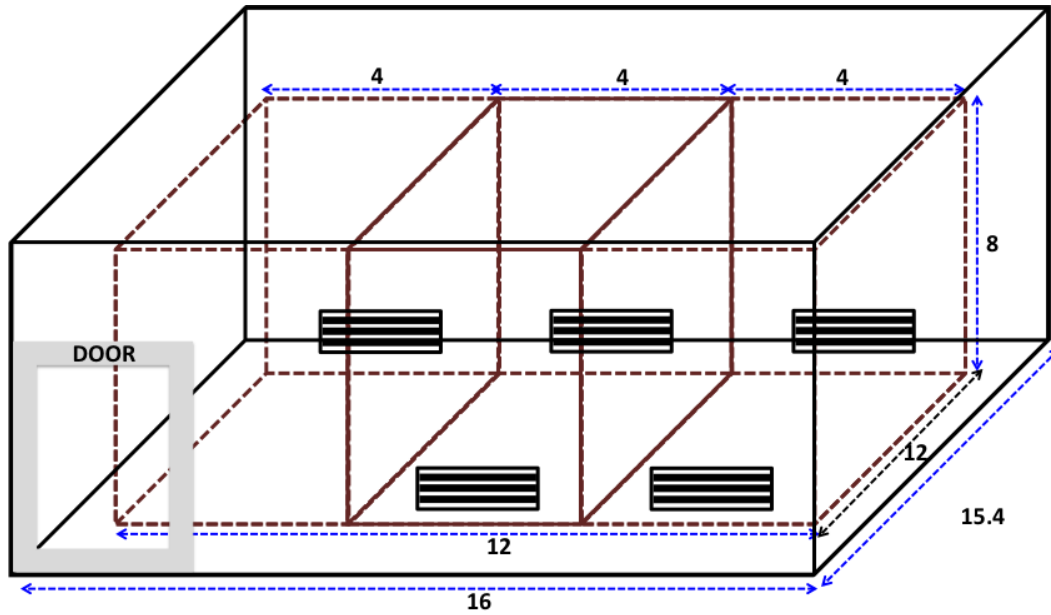


Figure. Sample schematic (not to scale) of the proposed cleanroom