

**GOVERNMENT OF INDIA
DEPARTMENT OF SPACE
INDIAN INSTITUTE OF SPACE SCIENCE AND TECHNOLOGY (IIST)
THIRUVANANTHAPURAM**

**Tender for MEMS and Nanofabrication Semiconductor Cleanroom
Facility**

Bids to be submitted online

Tender No.: IIST/PURCHASE AND STORES/IN202500002701 dated 27-02-2025

A. Tender Details

Tender No : IIST/PURCHASE AND STORES/IN202500002701

Tender Date : 27-02-2025

Tender Classification: GOODS

Purchase Entity : PURCHASE AND STORES

Centre : INDIAN INSTITUTE OF SPACE SCIENCE AND TECHNOLOGY (IIST)

MEMS and Nanofabrication Semiconductor Cleanroom Facility

MEMS and Nanofabrication Semiconductor Cleanroom Facility

A.1 Tender Schedule

Tender Publish Date : 27-02-2025 13:10

Bid Clarification Due Date : 21-04-2025 14:00

Bid Submission Start Date : 02-04-2025 00:00

Bid Submission Due Date : 01-05-2025 14:00

Bid Opening Date : 01-05-2025 14:15

Price Bid Opening Date : 16-06-2025 14:00

A.2 Pre-bid Meeting Details

Date : 20-03-2025 14:00

Place : Indian Institute of Space Science and Technology,
Valiamala, Nedumangad, Thiruvananthapuram, Kerala

Location : Council Hall, Administrative Building, IIST Campus

Centre : INDIAN INSTITUTE OF SPACE SCIENCE AND
TECHNOLOGY (IIST), THIRUVANANTHAPURAM,
KERALA

Details :

Pre-bid meeting mode will be Offline only. Vendors are encouraged to visit the site at IIST and participate in the pre-bid meeting. The vendors shall submit to IIST purchase and store (purchase@iist.ac.in) the list of queries to be discussed in pre-bid meeting on or before 13/03/2025.

Vendors participating in the pre-bid meeting are requested to send an email to purchase@iist.ac.in with the details of authorized personnel in the official letter head.

B. Tender Attachments

NA

Instructions To Vendors

1. INSTRUCTIONS TO TENDERERS AND TERMS & CONDITIONS OF TENDER

1. 1.Tenders should be submitted online against the relevant Tender No, before the due date.
- 2.Late tenders and delayed tenders will not be considered.
- 3.Sales Tax and/or other duties/levies legally leviable and intended to be claimed should be distinctly shown separately in the tender.
- 4.As a Government of India Department, this office is exempted from payment of Octroi and similar local levies. Tenderers shall ensure that necessary Exemption Certificates are obtained by them from the Purchase Officer concerned to avoid any payment of such levies.
- 5.(a) Your quotation should be valid for 90 days from the date of opening of the tender.
(b)Prices are required to be quoted according to the units indicated in the annexed tender form. When quotations are given in terms of units other than those specified in the tender form, relationship between the two sets of units must be furnished.
- 6.Preference will be given to those tenders offering supplies from ready stocks and on the basis of FOR destination/delivery at site.
- 7.(a) All available technical literature, catalogues and other data in support of the specifications and details of the items should be furnished along with the offer.
(b)Samples, if called for, should be submitted free of all charges by the tenderer and the Purchaser shall not be responsible for any loss or damage thereof due to any reason whatsoever. In the event of non-acceptance of tender, the tenderer will have to remove the samples at his own expense.
(c)Approximate net and gross weight of the items offered shall be indicated in your offer. If dimensional details are available the same should also be indicated in your offer.
(d)Specifications: Stores offered should strictly confirm to our specifications. Deviations, if any, should be clearly indicated by the tenderer in his quotation. The tenderer should also indicate the Make/Type number of the stores offered and provide catalogues, technical literature and samples, wherever necessary, along with the quotations. Test Certificates, wherever necessary, should be forwarded along with supplies. Wherever options have been called for in our specifications, the tenderer should address all such options. Wherever specifically mentioned by us, the tenderer could suggest changes to specifications with appropriate response for the same.
- 8.The purchaser shall be under no obligation to accept the lowest or any tender and reserves the right of acceptance of the whole or any part of the tender or portions of the quantity offered and the tenderers shall supply the same at the rates quoted.
- 9.Corrections, if any, must be attested. All amounts shall be indicated both in words as well as in figures. Where there is difference between amount quoted in words and figures, amount quoted in words shall prevail.

10.The tenderer should supply along with his tender, the name of his bankers as well as the latest Income-Tax clearance certificate duly countersigned by the Income-Tax Officer of the Circle concerned under the seal of his office, if required by the Purchaser.

11.The Purchaser reserves the right to place order on the successful tenderer for additional quantity up to 25% of the quantity offered by them at the rates quoted.

12.The authority of the person signing the tender, if called for, should be produced.

2. DEFINITIONS:

(a)The term 'Purchaser' shall mean the President of India or his successors or assigns.

(b)The term 'Contractor' shall mean, the person, firm or company with whom or with which the order for the supply of stores is placed and shall be deemed to include the Contractor's successors, representative, heirs, executors and administrators unless excluded by the Contract.

(c)The term 'Stores' shall mean what the Contractor agrees to supply under the Contract as specified in the Purchase Order including erection of plants & machinery and subsequent testing, should such a condition is included in the Purchase Order.

(d)The term 'Purchase Order' shall mean the communication signed on behalf of the Purchaser by an Officer duly authorised intimating the acceptance on behalf of the Purchaser on the terms and conditions mentioned or referred to in the said communication accepting the tender or offer of the Contractor for supply of stores or plant, machinery or equipment or part thereof.

2.PRICES:

Tender offering firm prices will be preferred. Where a price variation clause is insisted upon by a tenderer, quotation with a reasonable ceiling should be submitted. Such offers should invariably be supported by the base price taken into account at the time of tendering and also the formula for any such variation/s.

3. 2.PRICES:

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4. 3.SECURITY DEPOSIT:

On acceptance of the tender, the Contractor shall, at the option of the Purchaser and within the period specified by him, deposit with him, in cash or in any other form as the Purchaser may determine, security deposit not exceeding ten percent of the value of the Contract as the Purchaser shall specify. If the Contractor is called upon by the Purchaser to deposit, Security and the Contractor fails to provide the security within the period specified, such failure shall constitute a breach of the Contract, and the Purchaser shall be entitled to make other arrangements for the re-purchase of the stores Contracted at the risk of the Contractor in terms of Sub-Clause (ii) and (iii) of clause 10(b) hereof and/or to recover from the Contractor, damages arising from such cancellation

5. 4.GUARANTEE & REPLACEMENT:

(a)The Contractor shall guarantee that the stores supplied shall comply fully with the specifications laid down, for material, workmanship and performance.

(b)For a period of twelve months after the acceptance of the stores, if any defects are discovered therein or any defects therein found to have developed under proper use, arising from faulty stores design or workmanship, the Contractor shall remedy such defects at his own cost provided he is called upon to do so within a period of 14 months from the date of acceptance thereof by the purchaser who shall state in writing in what respect the stores or any part thereof are faulty.

(c)If, in the opinion of the purchaser, it becomes necessary to replace or renew any defective stores such replacement or renewal shall be made by the Contractor free of all costs to the purchaser, provided the notice informing the Contractor of the defect is given by the purchaser in this regard within the said period of 14 months from the date of acceptance thereof.

(d)Should the Contractor fail to rectify the defects, the purchaser shall have the right to reject or repair or replace at the cost of the Contractor the whole or any portion of the defective stores.

(e)The decision of the purchaser notwithstanding any prior approval or acceptance or inspection thereof on behalf of the purchaser, as to whether or not the stores supplied by the Contractor are defective or any defect has developed within the said period of 12 months or as to whether the nature of the defects requires renewal or replacement, shall be final, conclusive and binding on the Contractor.

(f)To fulfill guarantee conditions outlined in clause 4 (a) to (e) above, the Contractor shall, at the option of the purchaser, furnish a Bank Guarantee (as prescribed by the purchaser) from a Bank approved by the purchaser for an amount equivalent to 10% of the value of the Contract along with first shipment documents. On the performance and completion of the Contract in all respects, the Bank Guarantee will be returned to the Contractor without any interest.

(g)All the replacement stores shall also be guaranteed for a period of 12 months from the date of arrival of the stores at purchaser's site.

(h)Even while the 12 months guarantee applies to all stores, in case where a greater period is called for by our specifications then such a specification shall apply in such cases the period of 14 months referred to in Para 4 (b) & (c) shall be the asked for guarantee period plus two months.

6. 5.PACKING, FORWARDING & INSURANCE:

The Contractor will be held responsible for the stores being sufficiently and properly packed for transport by rail, road, sea or air to withstand transit hazards and ensure safe arrival at the destination. The packing and marking of packages shall be done by and at the expense of the Contractor. The purchaser will not pay separately for transit insurance, all risks in transit being exclusively of the

Contractor and the Purchaser shall pay only for such stores as are actually received in good condition in accordance with the Contract.

7. 6.DESPATCH:

The Contractor is responsible for obtaining a clear receipt from the Transport Authorities specifying the goods dispatched. The consignment should be dispatched with clear Railway Receipt/Lorry Receipt. If sent in any other mode, it shall be at the risk of the Contractor. Purchaser will take no responsibility for short deliveries or wrong supply of goods when the same are booked on 'said to contain' basis. Purchaser shall pay for only such stores as are actually received by them in accordance with the Contract.

8. 7.TEST CERTIFICATE:

Wherever required, test certificates should be sent along with the dispatch documents.

9. 8.ACCEPTANCE OF STORES:

(a)The stores shall be tendered by the Contractor for inspection at such places as may be specified by the purchaser at the Contractor's own risk, expense and cost.

(b)It is expressly agreed that the acceptance of the stores Contracted for, is subject to final approval by the purchaser, whose decision shall be final.

(c)If, in the opinion of the purchaser, all or any of the stores do not meet the performance or quality requirements specified in the Purchase Order, they may be either rejected or accepted at a price to be fixed by the purchaser and his decision as to rejection and the prices to be fixed shall be final and binding on the Contractor.

(d)If the whole or any part of the stores supplied are rejected in accordance with Clause No. 8 (c) above, the purchaser shall be at liberty, with or without notice to the Contractor, to purchase in the open market at the expense of the Contractor stores meeting the necessary performance and quality Contracted for in place of those rejected, provided that either the purchase, or the agreement to purchase, from another supplier is made within six months from the date of rejection of the stores as aforesaid.

10. 9.REJECTED STORES:

Rejected stores will remain at destination at the Contractor's risk and responsibility. If instructions for their disposal are not received from the Contractor within a period of 14 days from the date of receipt of the advice of rejection, the purchaser or his representative has, at his discretion, the right to scrap or sell or consign the rejected stores to Contractor's address at the Contractor's entire risk and expense, freight being payable by the Contractor at actuals

11. 10.DELIVERY:

(a)The time for and the date of delivery of the stores stipulated in the Purchase Order shall be deemed to be the essence of the Contract and delivery must be completed on or before the specified dates.

(b)Should the Contractor fail to deliver the stores or any consignment thereof within the period prescribed for such delivery, the purchaser shall be entitled at his option either.

(i)to recover from the Contractor as agreed liquidated damages and not by way of penalty, a sum of 0.5% per week of the price of any stores which the Contractor has failed to deliver as aforesaid or during which the delivery of such store may be in arrears subject to a minimum of 10%, or

(ii)to purchase from elsewhere, without notice to the Contractor on the account and at the risk of the Contractor, the stores not delivered or others of a similar description (where others exactly complying with the particulars, are not, in the opinion of the purchaser, readily procurable, such opinion being final) without cancelling the Contract in respect of the consignment (s) not yet due for delivery, or

(iii)to cancel the Contract or a portion thereof and if so desired to purchase or authorise the purchase of stores not so delivered or others of a similar description (where others exactly if complying with the particulars are not, in the opinion of the purchaser, readily procurable, such opinion final) at the risk and cost of the Contractor.

In the event of action being taken under sub-clause (ii) & (iii) of clause 10 (b) above, the Contractor shall be liable for any loss which the purchaser may sustain on that account, provided that the re-purchase or if there is an agreement to re-purchase then such agreement is made within six months from the date of such failure. But the Contractor shall not be entitled to any gain on such re-purchase made against default. The manner and method of such re-purchase shall be at the discretion of the purchaser, whose decision shall be final. It shall not be necessary for the purchaser to serve a notice of such re-purchase on the defaulting Contractor. This right shall be without prejudice to the right of the purchaser to recover damages for breach of Contract by the Contractor.

12. 11.EXTENSION OF TIME:

As soon as it is apparent that the Contract dates cannot be adhered to, an application shall be sent by the Contractor to the purchaser. If failure, on the part of the Contractor, to deliver the stores in proper time shall have arisen from any cause which the purchaser may admit as reasonable ground for an extension of the time (and his decision shall be final) he may allow such additional time as he considers it to be justified by circumstances, of the case without prejudice to the purchaser's right to recover liquidated damages under clause 10 thereof

13. 12.ERECTION OF PLANT & MACHINERY:

Wherever erection of a plant or machinery is the responsibility of the Contractor as per the terms of the Contract and in case the Contractor fails to carry out the erection as and when called upon to do so within the period specified by the purchaser, the purchaser shall have the right to get the erection done through any source of his choice. In such an event, the Contractor shall be liable to bear any

additional expenditure that the purchaser is liable to incur towards erection. The Contractor shall, however, not be entitled to any gain due to such an action by the purchaser

14. 13.PAYMENT:

Contractor's bill will be passed for payment only after the stores have been received, inspected and accepted by the Purchaser.

15. 14.MODE OF PAYMENT:

Normally payment will be made for the accepted stores within 30 days from the date of receipt of the materials.

16. 15.RECOVERY OF SUM DUE:

Whenever any claim for the payment of, whether liquidated or not, money arising out of or under this Contract against the Contractor, the purchaser shall be entitled to recover such sum by appropriating in part or whole, the security deposited by the Contractor, if a security is taken against the Contract. In the event of the security being insufficient or if no security has been taken from the Contractor, then the balance or the total sum recoverable as the case may be, shall be deducted from any sum then due or which at any time thereafter may become due to the Contractor under this or any other Contract with the purchaser. Should this sum be not sufficient to cover the full amount recoverable, the Contractor shall pay to the purchaser on demand the remaining balance due. Similarly, if the purchaser has or makes any claim, whether liquidated or not, against the Contractor under any other Contract with the purchaser, the payment of all moneys payable under the Contract to the Contractor including the security deposit shall be withheld till such claims of the purchaser are finally adjudicated upon and paid by the Contractor.

17. 16.INDEMNITY:

The Contractor shall warrant and be deemed to have warranted that all stores supplied against this Contract are free and clean of infringement of any Patent, Copyright or Trademark, and shall at all times indemnify the purchaser against all claims which may be made in respect of the stores for infringement of any right protected by Patent Registration of design or Trade mark and shall take all risk of accidents or damage which may cause a failure of the supply from whatever cause arising and the entire responsibility for sufficiency of all means used by him for the fulfillment of the contract

18. 17.ARBITRATION:

In the event of any question, dispute or difference arising under these conditions or any conditions contained in the Purchase Order or in connection with this Contract (except as to any matter the decision of which is specially provided for by these conditions), the same shall be referred to the sole arbitration of the Head of the Purchase office or some other person appointed by him. It will be no objection that the arbitrator is a Government servant, that he had to deal with matter to which the Contract relates or that in the course of his duties as Government servant he has expressed views on all or any other matters in dispute or difference. The award of the arbitrator shall be final and binding

on the parties of this Contract.

If the arbitrator be the Head of the Centre/Unit.

(i) In the event of his being transferred or vacating his office by resignation or otherwise, it shall be lawful for his successor-in-office either to proceed with reference himself, or to appoint another person as arbitrator, or

(ii) In the event of his being unwilling or unable to act for any reason, it shall be lawful for the Head of the Centre/Unit to appoint another person as arbitrator.

*If the arbitrator be a person appointed by the Head of the Purchase Office In the event of his dying, neglecting or refusing to act or resigning or being unable to act, for any reason, it shall be lawful for the Head of the Centre/Unit either to proceed with the reference himself or appoint another person as arbitrator in place of the outgoing arbitrator.

*Subject as aforesaid the Arbitration & Conciliation Act 1996 and the rules there under and any statutory modifications thereof for the time being in force shall be deemed to apply to the arbitration proceedings under this Clause. The Arbitrator shall have the power to extend with the consent of the purchaser and the Contractor the time for making and publishing the award. The venue of arbitration shall be the place as purchaser in his absolute discretion may determine. Work under the Contract shall, if reasonably possible, continue during arbitration proceedings.

*In the event of any dispute or difference relating to the interpretation and application for the provisions of the Contracts, such dispute or difference shall be referred by either party to Arbitration of one of the Arbitrations in the Department of Public Enterprises. The Arbitration Act 1996 shall not be applicable to arbitration under this clause. The award of the Arbitrator shall be binding upon the parties to the dispute provided however any party aggrieved by such award may make a further reference for setting aside or revision of the award to the Law Secretary, Department of Legal Affairs. Ministry of Law & Justice, Govt. of India. The parties to the dispute will share equally, the cost of arbitration as intimated by Arbitrator

19. 18.COUNTER TERMS AND CONDITION OF SUPPLIERS:

Where counter terms and conditions printed or cyclostyled conditions have been offered by the supplier, the same shall not be deemed to have been accepted by the Purchaser, unless specific written acceptance thereof is obtained.

20. 19.SECURITY FOR PURCHASE OF MATERIALS:

Successful tenderer will have to furnish in the form of a bank guarantee or any other form as called for by the purchaser towards adequate security for the materials and properties provided by the Purchaser for the due execution of the Contract.

2. Tender Conditions IIST

1. This is an E Tender. Hence Postal/Fax/Email tenders will not be accepted. Quotation/Open Authorization shall be submitted online [only] complying the specified schedule with technical

specifications, including pamphlets and catalogues.

2. This is a TWO-PART tender i.e. Techno-Commercial Bid (Part-I) and Price Bid (Part-II) shall be submitted separately. All technical and commercial terms and conditions shall be furnished in the Techno-Commercial Bid while price shall be indicated only in the Price Bid. Uploading price details anywhere else other than the price-bid shall lead to unconditional rejection of the tender. Tenderers are advised NOT TO UPLOAD any documents revealing the price of the main equipment, accessories, spares or AMC in technical & Commercial bid. They are however, requested to upload UNPRICED BIDS (i.e. Price details masked) showing appropriate breakup of components of main equipment, individual accessories and spares as desired.

3. This tender is proposed as a DOMESTIC PUBLIC TENDER. This tender is restricted only to Class-I and Class-II Local Suppliers as defined under DPIIT Order - Preference to Make in India Order-2017 Revision and subsequent amendments. Non-Local Suppliers need not quote. Foreign OEMs/Agents quoting on behalf of Foreign OEMs are not permitted to quote. High Sea Sales Quotes not permitted. The bids shall be in INR only.

4. Foreign vendors are not permitted to quote. This is a domestic bid and the currency of the bid should be in INR Indian Rupees. Any bid in foreign currency shall be summarily rejected.

1. Only Class -I and Class-II Local suppliers as per make in India policy are eligible to participate in the bid. 2. The percentage of local content should be specifically mentioned in the offer, without which it will be summarily rejected 3. Preference will be given to Class-I Local Supplier.

5. Technical Bids will be opened at the scheduled due date & time. No further intimation will be sent in this regard. The schedule for price bid opening shown is only indicative. Price bids will only be opened in the case of parties who have been techno-commercially accepted, the details of which will be communicated at a later stage.

6. The vendors have to compulsorily submit the compliance statement online otherwise their offer will not be considered for further evaluation. Before entering the compliance statement, vendors are advised to refer the detailed specification provided.

7. The Technical Specification/ Drawing/ Product Catalogues/ Works Carried by vendor/ Make offered etc. as per the list of submittals in the main RFP, has to be uploaded online mode by the vendor.

8. In order to avail of the benefits extended to by Govt. of India to the Micro and Small Sectors, please submit attested copy of the valid Entrepreneur Memorandum Part-II signed by the General Manager, District Industries Centre / Udyog Adhar / NSIC Registration Certification along with your offer. Micro and Small Vendors are not exempted from the submission of Security Deposit.

9. Please upload the Technical Details / Catalogue / Data Sheets (wherever applicable)

10. Our standard delivery term is FOR, IIST. In case any vendor offers delivery term of Ex-works, Packing and Forwarding charges if any should be indicated separately either as a percentage of the quoted rate or as a Lumpsum amount.
11. Payment Terms: Please refer RFP document in the tender.
12. Security Deposit : - Wherever the offer value is Rs. 5.00 Lakhs or above, the successful tenderer should submit Security Deposit @3 % of the order value by way of Bank Guarantee / FD Receipt. The Bank Guarantee shall be obtained from any Scheduled Bank on Rs.200/- Non Judicial Stamp Paper and should be valid beyond 2 months from the completion of all contractual obligations.
13. The offer should be valid for a period of minimum 180 days [for Two Part Tender] from the date of Tender opening.
14. The other attached forms are our standard terms and conditions, which are to be complied with. If any conflict arise between the specific terms and standard terms, then in those cases, the specific terms will prevail over the standard terms.
15. Wherever samples are required to be submitted along with the quotation, offer without sample will not be considered.
16. Liquidated damages: The delivery period quoted by you and stipulated in the Purchase Order shall be deemed to be the essence of the order and delivery must be completed not later than the dates specified therein as otherwise IIST shall have the right to recover a sum @ 0.5% of the order value per week/part of a week or 0.5%of the value of the stores for which the delivery is delayed for each week of delay, as the case may be, subject to a maximum of 10% of the order value.
17. Any bidder from a country which shares a land border with India will be eligible to bid in this tender, only if the bidder is registered with the Competent Authority. Competent Authority for the purpose of registration shall be the Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT). Any false declaration and non-compliance of the above would be a ground for immediate rejection of offer or termination of the contract and further legal action in accordance with the laws
18. Warranty: Warranty should be clearly indicated in the quotation. (Please refer the RFP for warranty condition)
19. Performance Bank Guarantee: You shall furnish performance Bank Guarantee in Rs.200/-non judicial stamp paper from a Nationalized/Scheduled Bank which shall be valid beyond 2 months from the expiry of warranty/guarantee period. Please refer RFP document in the tender for details.

20. SD, LD and PBG clauses are mandatory and offers of the vendors who have not agreed for the above conditions will be excluded from the procurement process. Micro and Small Vendors are not exempted from the submission of Security Deposit. Only Govt Departments/PSUs/PSEs can submit Indemnity Bond instead of Bank Gurantee towards SD/PBG.
21. If you are unable to submit offer, the same may be communicated to us before the due date.
22. IIST has a right to cancel the tender without assigning any reason etc.
23. PO will be placed on technically and commercially suitable lowest offer basis and IIST reserves the right to split the order on L1 basis.
24. All Tax invoices issued by suppliers/Service providers shall invariably bear their GST Registration No.(GSTIN) applicable GST rates and HSN Code. In the absence of which, the invoices shall not be processed for payment.
25. Details of registration Number, PAN Card, GST, TIN, NSIC, MSME registration etc.
26. Tax and or other duties or levies legally leviable and intended to be claimed should be mentioned in the price bid template. If nothing is mentioned, then it will be presumed that the rate quoted is inclusive of all taxes and duties.
27. Last minute clarification on tenders will not be entertained.
28. If any bidder submits forged / false document along with the tender, offer of such vendors will be summarily rejected and such bidders will be blacklisted for all future tenders.
29. ARBITRATION - In the event of any dispute/s, difference/s or claim/s arising out of or relating to the interpretation and application of the Contract, such dispute/s or difference/s or claim/s shall be settled amicably by mutual consultations of the good Offices of the respective Parties and recognizing their mutual interests attempt to reach a solution satisfactory to both the parties. If such a resolution is not possible, within 30 days from the date of receipt of written notice of the existence of such dispute/s, then the unresolved dispute/s or difference/s or claim/s shall be referred to the Sole Arbitrator appointed by the Parties by mutual consent in accordance with the rules and procedures of Arbitration and Conciliation Act 1996 as amended from time to time. The arbitration shall be conducted in Bengaluru in the Arbitration and Conciliation Centre Bengaluru (Domestic and International) as per its rules and regulations. The expenses for the Arbitration shall be shared equally or as may be determined by the Arbitrator. The considered and written decision of the Arbitrator shall be final and binding between the Parties. The applicable language for Arbitration shall be in English only. Work under the Contract shall be continued by the CONTRACTOR during the pendency of arbitration proceedings, without prejudice to a final adjustment in accordance with the decision of the Arbitrator

unless otherwise directed in writing by the DEPARTMENT or unless the matter is such that the works cannot be possibly continued until the decision (whether final or interim) of the Arbitrator is obtained.

C. Bid Templates

C.1 Technical Bid - MEMS and Nanofabrication Semiconductor Cleanroom Facility

1. MEMS and Nanofabrication Semiconductor Cleanroom Facility

Item specifications for MEMS and Nanofabrication Semiconductor Cleanroom Facility

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	REQUEST FOR PROPOSAL & SPECIFICATION DOCUMENT MEMS & NANOFABRICATION SEMICONDUCTOR CLEANROOM FACILITY	Refer Main Specification document (Main RFP and Specification document.pdf file) along with all the Annexures1-8 for details.	Yes / No / Explain		

2	MEMS & NANOFABRICATION SEMICONDUCTOR CLEANROOM FACILITY-Scope of Work	<p>To set up a state-of-the-art MEMS and Nano-fabrication Semiconductor cleanroom facility . The facility is planned for Clean Room of ISO 5 (Class 100) and ISO 6 (Class 1000) with associated Support areas and utilities including Bulk & Process gas distribution system. To realize the facility, IIST intends to engage a suitable Vendor to undertake the Design & Detailed Engineering and Supply, Installation, Testing, Commissioning and Validation of the Cleanrooms, related HVAC, Facility Utilities & distribution network of all facilities & services is to be provided up to the point of use as per the utility matrix given at annexure 4 on a 'Turn Key' basis. The Vendor/parties/firms has to demonstrate post installation & commissioning performance of all the installed services for Compliance to the required specifications. The Party/Vendor has to strictly comply with the requirements mentioned in various sections of this document. IIST will conduct a tender Prebid meeting . Vendors may please visit the site before submitting the bid. The Vendor may inspect the site on a working day and during working hours up to 3 days prior to the last</p>	Yes / No / Explain		
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		date of uploading of the Bids, to get acquainted with the site conditions.			
3	<p>Eligibility Criteria. IMPORTANT NOTE: Bids of only those bidders who fulfill the tender stipulated eligibility criteria as provided below shall only be considered for further evaluation of technical bid documents.</p>	<p>Main RFP and Specification document- Page no:10-12 The Vendors/parties/firms participating in the tender should be technically competent and experienced in having undertaken Clean room projects for semiconductor/ MEMS/nano-fabrication facility with the eligibility criteria (points i-viii) with Details in Main RFP and Specification document- Page no:11</p>	Yes / No / Explain		

4	<p>Eligibility Criteria Details. NOTE: "The prime bidder" should have the requisite experience in Clean rooms, related HVAC works, Cleanroom accessories, Related electrical for cleanrooms & Validation of Cleanrooms in semiconductor/micro electronic/nano-fabrication/MEMS facilities.</p>	<p>Main RFP and Specification document- Page no:10 i. Vendors/Parties/ firms means: PRIME BIDDER". Prime Bidder should have successfully completed at least two (2) "similar works". "Similar Work" shall mean "Supply, installation, testing, commissioning and validation of Clean Room facility (Class 100/ISO 5 or better, as per FED Std. 209E/ISO14644) including associated utilities such as HVAC, bulk and process gas distribution, Process Extraction, per the respective Standards for semiconductor/Micro electronics/ Nano fabrication/ MEMS facilities". Vendor shall have the in-house design capability for design of the clean rooms associated systems and the infrastructure to generate drawings in 'Revit' software platform ii. The vendor should have completed, within the previous seven years : At least one similar cleanroom project of not less than INR 6 crore in a single order or two similar cleanroom project of not less than INR 4 crore each</p>	Yes / No / Explain		
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5	Eligibility criteria - (For the vendors who do not individually meet the criteria in clauses I & ii)	<p>iii. For the vendors who do not individually meet the criteria in clauses I & ii, the PRIME BIDDER may associate with other Service PROVIDERS (experienced in the relevant field other than Cleanrooms, viz. Bulk & Process Gas Distribution system along with Total Gas Management etc. Tool hook-up, compressed dry air, Process extraction systems /High purity Utilities distribution network) and in such cases the combined experience of the consortium members for the “similar work” shall be taken into consideration for determining the eligibility. In such cases, “THE PRIME Bidder” should have the requisite experience in Clean rooms, related HVAC works, Cleanroom accessories, related electrical for cleanrooms & Validation of Cleanrooms in semiconductor/micro electronic/nano-fabrication/MEMS facilities. The fulfilment of all the Contractual obligations for successful execution of the project shall be the sole responsibility of the Prime bidder. Copy of the Memorandum of Understanding (MoU) between the prime bidder and the firm/party with whom they shall associate for the project shall</p>	Yes / No / Explain		
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		be submitted along with the bid. The validity of MoU between prime bidder and service providers shall be minimum two (2) years post three (3) year on-site comprehensive warranty period of the facility.			
6	Eligibility Criteria- (MOU) between the prime bidder and the firm/party with whom they shall associate for the project shall be submitted along with the bid.	Details in Main RFP and Specification document- Page no:11 The validity of MoU between prime bidder and service providers shall be minimum two (2) years post three (3) year on-site comprehensive warranty period of the facility. (If Applicable as per point iii)	Yes / No / Explain		

7	<p>Eligibility Criteria- Copies of Purchase Orders/ work orders in respect of “similar work” executed by the party/firm with Documents evidencing satisfactory completion (As per point iv) Eligibility Criteria-Copies of the POs/work orders executed by the other firm with Documents evidencing satisfactory completion issued by the respective clients/organizations shall also be submitted along with the bid. (If Applicable as per point iii)</p>	<p>Details in Main RFP and Specification document- Page no:11 (iv) Copies of Purchase Orders/ work orders in respect of “similar work” executed by the party/firm with Documents evidencing satisfactory completion issued by the respective clients/organizations shall be submitted along with the bid. In case the firm/party associates with other firm/party, copies of the POs/work orders executed by the other firm with documents evidencing satisfactory completion issued by the respective clients/organizations shall also be submitted along with the bid. IIST may inspect any of the completed or ongoing similar projects for the vendor(s), for which the vendor(s) shall have to provide cooperation/assistance. IIST may also take inputs from such clients. In case performance of the vendor(s) is found to be unsatisfactory, their bid is liable to be rejected</p>	Yes / No / Explain		
8	<p>Eligibility Criteria- Financial turnover, solvency certificate and other documents mentioned in section 2.(v to viii) of the prime bidder.</p>	<p>v. Financial turnover, solvency certificate of the prime bidder shall only considered for evaluation. Details in Main RFP and Specification document- Page no:12</p>	Yes / No / Explain		

9	Eligibility Criteria- A. Chartered Accountant's certificate for the annual financial turnover	vi. Average annual financial turnover should not be less than Rs. 5 crores during the last 3 years. The prospective firm/party shall provide Chartered Accountant's certificate for the annual financial turnover Details in Main RFP and Specification document- Page no:12	Yes / No / Explain		
10	Eligibility Criteria - B. Current (not prior to six (6) months) solvency certificate from any scheduled bank.	vii. Should have a solvency of not less than Rs. 2.5 crores. The prospective firm/party shall provide current (not prior to six (6) months) solvency certificate from any scheduled bank Details in Main RFP and Specification document- Page no:12	Yes / No / Explain		
11	Eligibility Criteria(v)C. Copy of audited Annual Accounts by a chartered accountant for the previous 5 (five) financial years.	viii. Should not have incurred any loss in more than 2 years during the last (five) 5 financial years. The prospective firm/party shall provide the copy of audited Annual Accounts by a chartered accountant for the previous 5 (five) financial years Main RFP and Specification document- Page no:12	Yes / No / Explain		
12	Submittals with Bids and Submittals of selected vendor with details below	Main RFP and Specification document- Page no:14-18	Yes / No / Explain		
13	Submittals with Techno commercial/Technical bid as below.	Main RFP and Specification document- Page no:14	Yes / No / Explain		

14	.Submittals with Techno commercial/Technical bid-Detailed compliance sheet as per the given format for RFP and Annexures.	An item wise compliance statement indicating clearly any deviations if any, from specifications, recommended makes etc. The Vendor shall submit all required documents mentioning Annexure number clearly, in support of compliance to the specifications. If the offer deviates from the specifications and is not acceptable to the IIST technical committee, vendor is bound to change the materials, otherwise the bid shall not be considered for further processing. To be filled in Annexure 7 Compliance Matrix document. Reference in RFP and Remarks	Yes / No / Explain		
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15	<p>Submittals with Techno commercial/Technical bid-Detailed un-priced Bill of Quantity/Materials envisaged for the project, Make/Brands of all the equipment's/materials conforming to the specifications in this RFP document (As per the format of model of BOQ in Annexure 6)</p>	<p>Detailed un-priced Bill of Quantity/Materials envisaged for the project, Make/Brands of all the equipment's/materials conforming to the specifications in this RFP document, etc. along with only technical part of the bid.</p> <p>1. The Vendor shall submit detailed un-priced BOQ/BOM of all the items envisaged for the Project in the Technical part of the Bid. No pricing information shall be submitted in the Technical Bid. In case of pricing information being disclosed in the Technical bid, the bid shall be summarily rejected. The BOQs of all the items in conjunction with the specifications mentioned in the RFP shall be submitted by the vendors. For format for Unpriced BOQ refer annexure. Note on Unpriced BOQ: *Detailed Unpriced Bill of Quantity/Materials envisaged for the project, Make/Brands of all the equipment's/materials conforming to the specifications in this RFP document, to be submitted with technical bid. *The BOQs of all the items required (row wise as list under each category) should be included in conjunction with the</p>	Yes / No / Explain		
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		<p>specifications mentioned in the RFP. Please refer Annexure 5 also for the BOQ related to Fire detection system & control panel</p> <p>*Vendor shall be solely responsible for the quantity of various items mentioned by them in the BOM/BOQ.</p> <p>* Vendors may add other relevant items under the category "11 Others", if necessary</p>			
16	<p>Submittals with Techno commercial/Technical bid-Heat Load Calculations Room wise all sheets & summary sheet (without this Heat Load calculation the Technical Submittal will not be accepted)</p>	<p>to be submitted with technical bid</p>	<p>Yes / No / Explain</p>		
17	<p>Submittals with Techno commercial/Technical bid-Summary of Design & Selection of TR, Supply Air, return air, AHU Capacity, Fresh air, Heater etc. (without this Heat Load calculation the Technical Submittal will not be accepted)</p>	<p>to be submitted with technical bid</p>	<p>Yes / No / Explain</p>		
18	<p>Submittals with Techno commercial/Technical bid-Typical P&ID for chillers and AHUs</p>	<p>to be submitted with technical bid</p>	<p>Yes / No / Explain</p>		
19	<p>Submittals with Techno commercial/Technical bid-Air flow Diagram AHU wise supply air, return Air & Fresh Air etc.</p>	<p>to be submitted with technical bid</p>	<p>Yes / No / Explain</p>		
20	<p>Submittals with Techno commercial/Technical bid-AHU wise Zoning Layout Drawing</p>	<p>to be submitted with technical bid</p>	<p>Yes / No / Explain</p>		

21	Submittals with Techno commercial/Technical bid-Pressure Gradient Zoning Layout drawing	to be submitted with technical bid	Yes / No / Explain		
22	Submittals with Techno commercial/Technical bid- Cleanroom Layout Plan showing Modular Wall Panels, Glazed View Panels, Doors, Return Air Raisers positions.	to be submitted with technical bid	Yes / No / Explain		
23	Submittals with Techno commercial/Technical bid- Detailed Cleanroom Layout Drawings of Reflected ceiling plan of all clean rooms showing Ceiling panels, HEPA Filters, Light fixtures	to be submitted with technical bid	Yes / No / Explain		
24	Submittals with Techno commercial/Technical bid- Some typical Cross section of the Cleanrooms	to be submitted with technical bid	Yes / No / Explain		
25	Submittals with Techno commercial/Technical bid- Single Line diagrams of electrical system, P&ID diagrams of relevant Electrical items	to be submitted with technical bid	Yes / No / Explain		
26	Submittals with Techno commercial/Technical bid- Utilities distribution layouts	to be submitted with technical bid	Yes / No / Explain		

27	Submittals with Techno commercial/Technical bid- Compressed Dry Air Piping layout with reference to the Compressor & Connecting to the Process tools. P&ID of Compressed dry air indicating all the Components Like Valves, regulators, fittings, Gauges etc.	to be submitted with technical bid	Yes / No / Explain		
28	Submittals with Techno commercial/Technical bid- Schematic of Gas pad/gas yard layout and drawing, indicating the Location of GAS distribution System	to be submitted with technical bid	Yes / No / Explain		
29	Submittals with Techno commercial/Technical bid- Gas cabinets/ Gas panels/Gas Manifold / VMBs layout and typical P&ID diagrams for all services including the GAS Cabinets with relative Gas Panels. Piping Layout connecting the process tools with Gas panels, Gas cabinets scrubbers & connecting to Extraction Exhaust connections & Utilities etc. Schematic Process Exhaust/Extraction System including Exhaust Duct routing/size etc with reference to Process tools take off points & P&ID	to be submitted with technical bid	Yes / No / Explain		
30	Submittals with Techno commercial/Technical bid- SEMI S2 certificate of the Gas cabinet and gas panels.	to be submitted with technical bid	Yes / No / Explain		

31	Submittals with Techno commercial/Technical bid- Relevant catalogues & Technical Specifications of the proposed makes	to be submitted with technical bid	Yes / No / Explain		
32	Submittals with Techno commercial/Technical bid- PERT/GNAT Chart (Time schedule – Mile stone chart)	to be submitted with technical bid	Yes / No / Explain		
33	Submittals with Techno commercial/Technical bid- Organization Chart of the Key personnel proposed for the proposed Project. Site and project management by experienced Clean room team.	to be submitted with technical bid	Yes / No / Explain		

34	Submittals with Financial Priced bid: Detailed priced Bill of Quantity/Materials envisaged for the project.	<p>Main RFP and Specification document- Page no:18</p> <p>1. Detailed priced Bill of Quantity/Materials envisaged for the project, Make/Brands of all the equipment's/materials conforming to the specifications in this RFP document. BOQ to be filled as per the model BOQ format in Annexure BOQ with all details of price breakup. 1. Priced BOQ/BOM with itemized rates separately for Supply and Installation (including Testing, Commissioning, and Validation) shall be submitted in the Price Bid.</p> <p>2. Vendor shall be solely responsible for the quantity of various items mentioned by them in the BOM/BOQ. Any quantity variation over & above the quantity considered in the BOM/BOQ submitted by the Vendor shall be deemed to be covered under the price quoted by the Vendor and nothing extra shall be paid on this account.</p> <p>3. Any item not mentioned specifically in the BOM/ BOQ but required for completion of the project as per the scope of work defined in this document shall be deemed to be included in the overall price of the Vendor and nothing extra shall be paid on this account.</p>	Yes / No / Explain		
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4. The event of increase in the scope of work beyond the scope of work defined in this document, the Vendor shall be paid at the agreed unit rates as per the BOQ/BOM forming part of the contract.

Note on priced BOQ:
*The BOQs of all the items required (row wise as list under each category) should be included in conjunction with the specifications mentioned in the RFP. Please refer Annexure 5 also for the BOQ related to Fire detection system & control panel

* Vendors may add other relevant items under the category "11 Others", if necessary

*Priced BOQ/BOM with itemized rates separately for Supply and Installation (including Testing, Commissioning, and Validation) shall be submitted in the Price Bid.

*Vendor shall also quote post warranty 5 -year comprehensive AMC price separately, as an option.

* Quoted price for Optional # items mentioned will not be included in comprehensive statement for determining the L-1.

35	Clean room Layout: Refer model Layout Annexure 1 and Annexure 2.	The Provisional layout of the Cleanroom is evolved by IIST based on functional requirements including equipment being procured and available spaces. Refer Annexure 1 & 2. This Provisional layout shall be further developed and detailed out by the selected contractor based on the site conditions for approval of IIST (Main RFP and Specification document- Page no: 20-22)	Yes / No / Explain		
36	Technical Specifications & Data for Design for different functional areas (as per ROOM BOOK)	Refer Room Book for all areas. Main RFP and Specification document- Page no:22-29	Yes / No / Explain		

37	Approach Methodology of Cleanroom Air Management & Cleanroom related HVAC as A-J below	Main RFP and Specification document- Page no:29-52 The cleanroom shall be self-contained pre-fabricated modular system containing wall panels, Ceiling Grid, ceiling panels and suitable number of FFU with HEPA filters to provide clean air to achieve cleanliness level of classes indicated above. The clean air shall travel/enter the clean space through FFU having HEPA (H-14) housed in the false ceiling of the ISO 5, ISO 6, 7 &8 cleanroom. The vendor shall provide the necessary cutouts in the wall panel, ceiling panel, and flooring by using Clean room compatible material, as required for fixing/installing utilities & accessories such as electrical items, light fixtures, LAN ports etc	Yes / No / Explain		
38	A. Supply air scheme & Supply air plenum for Cleanrooms:	Main RFP and Specification document- Page no:29-30	Yes / No / Explain		
39	B. Recirculating Air Handlers & Specifications	Main RFP and Specification document- Page no: (31-34), (39-41)	Yes / No / Explain		
40	C. Local recirculation Air Management System in Cleanrooms using FFU SA Plenum Concept:	Main RFP and Specification document- Page no:34	Yes / No / Explain		
41	D. Return Air Raisers, Return Air Grilles, Volume Control Dampers etc.	Main RFP and Specification document- Page no:36	Yes / No / Explain		

42	E.Fresh Air related specifications	Main RFP and Specification document- Page no:38	Yes / No / Explain		
43	F.Dehumidifier , Humidifier detailed specifications	Main RFP and Specification document- Page no:46-48	Yes / No / Explain		
44	G.Electric Strip/ Duct Heaters:	Main RFP and Specification document- Page no:48	Yes / No / Explain		
45	H.Controls & Instruments:	Main RFP and Specification document- Page no:48	Yes / No / Explain		
46	I.Fan Filter Units specification: Supply & Installation of FFU Modules:	Main RFP and Specification document- Page no:48	Yes / No / Explain		
47	J.Disposable Hooded HEPA filter specifications (For Wet Process Lab)	Main RFP and Specification document- Page no:51	Yes / No / Explain		
48	Ducting	Main RFP and Specification document- Page no:53-60	Yes / No / Explain		
49	HVAC Section for Cleanrooms	Main RFP and Specification document- Page no: 61-70	Yes / No / Explain		
50	Technical specification of air cooled/ water cooled chiller units (Screw chiller)	Main RFP and Specification document- Page no:61	Yes / No / Explain		
51	Pumps for HVAC:	Main RFP and Specification document- Page no:65	Yes / No / Explain		
52	Chilled Water Piping for HVAC:	Main RFP and Specification document- Page no:66	Yes / No / Explain		
53	Chilled Water pipe insulation	Main RFP and Specification document- Page no:67	Yes / No / Explain		
54	Valves & Gauges:	Main RFP and Specification document- Page no:68	Yes / No / Explain		
55	Cleanroom fabrics & ancillaries specification	Main RFP and Specification document- Page no:71-80 (Section 10)	Yes / No / Explain		

56	INNER and OUTER WALLS OF CLEANROOMS: Cleanroom Fabrics of INNER and OUTER WALLS OF ALL THE CLEAN ROOMS including Photolitho lab, deposition & Etch, wet chemical lab etc. changing room etc.	Main RFP and Specification document- Page no:71	Yes / No / Explain		
57	Modular Wall System (wall panels: minimum 44mm thick with ESD coat of resistivity 10^6 - 10^9 ohm-cm based Aluminium honeycomb)	Main RFP and Specification document- Page no:71	Yes / No / Explain		
58	PVC CONDUITS IN OUTER WALL PANELS	Main RFP and Specification document- Page no:72	Yes / No / Explain		
59	Doors Cleanroom Compatible	Main RFP and Specification document- Page no:72	Yes / No / Explain		
60	EMERGENCY DOORS: Emergency exits to be provided as per safety norms at locations as indicated in the layout. (Please refer drawing) i) For Photolithography LAB ii) For Deposition LAB iii) For Outer wall of the SERVICE corridor	Main RFP and Specification document- Page no:73	Yes / No / Explain		
61	View windows / view panels:	Main RFP and Specification document- Page no:73	Yes / No / Explain		
62	Door in outer periphery corridor of existing wall for entry :Air tight PUF panel doors 50 mm thick	Main RFP and Specification document- Page no:74	Yes / No / Explain		

63	Coving in Cleanrooms: Coving: to be provided between wall to wall, wall to floor, wall to ceiling & 3D corner	Main RFP and Specification document- Page no:74	Yes / No / Explain		
64	CUT Outs in WALL Panels for Electrical items like Sockets, Switches etc. and CEILING PANELS for FFU with HEPA FILTERS & Light Fixtures	Main RFP and Specification document- Page no:74	Yes / No / Explain		
65	Pass box	Main RFP and Specification document- Page no:75	Yes / No / Explain		
66	ESD Flooring for Cleanrooms. The electrostatic dissipative flooring should be provided for fabrication lab areas and Flexible, homogenous, color matched vinyl flooring/skirting for Flooring for service corridor	Main RFP and Specification document- Page no:75	Yes / No / Explain		
67	False Ceiling System for of all the Cleanrooms Grid Ceiling System	Main RFP and Specification document- Page no:76	Yes / No / Explain		
68	Secondary Ceiling Grid	Main RFP and Specification document- Page no:77	Yes / No / Explain		
69	Additional Ceiling Grid & accessories for supporting the 600 mm X 600 mm Lighting Fixtures etc.	Main RFP and Specification document- Page no:77	Yes / No / Explain		
70	CLEANROOM CEILING BLANK PANELS with Aluminium honeycomb Core Material	Main RFP and Specification document- Page no:77	Yes / No / Explain		
71	Ceiling system for SERVICE corridor	Main RFP and Specification document- Page no:78	Yes / No / Explain		
72	Blank Panels for Service Corridors	Main RFP and Specification document- Page no:78	Yes / No / Explain		

73	Lighting for PHOTOLITHOGRAPHY LAB and other areas	Main RFP and Specification document- Page no:79	Yes / No / Explain		
74	Planar Grounding	Main RFP and Specification document- Page no:79	Yes / No / Explain		
75	Air-shower, Step-Over bench, Garment Storage	Main RFP and Specification document- Page no:79-80	Yes / No / Explain		
76	Access Panels/Doors for approach in to the FFU plenum and Duct Work	Main RFP and Specification document- Page no:80	Yes / No / Explain		
77	Central Utilities- Process Extraction / Exhaust Systems	Main RFP and Specification document- Page no:81	Yes / No / Explain		
78	Central Utilities- Process Extraction / Exhaust Systems- Specification of wet Extraction System (ACID/TOXIC EXHAUST SYSTEM)	Main RFP and Specification document- Page no:82	Yes / No / Explain		
79	Central Utilities- Process Extraction / Exhaust Systems- DRY Scrubber Specifications:	Main RFP and Specification document- Page no:86	Yes / No / Explain		
80	Central Utilities- Compressed Dry Air System (approximately 4-7 bar of each equipment)	Main RFP and Specification document- Page no:88	Yes / No / Explain		
81	Central Utilities (Electrical)	Main RFP and Specification document- Page no:89-92	Yes / No / Explain		
82	Life, Safety and Security Systems with details	Main RFP and Specification document- Page no:92-97	Yes / No / Explain		
83	BUILDING MANAGEMENT SYSTEM (BMS) with details	Main RFP and Specification document- Page no:97-102	Yes / No / Explain		
84	Process cooling system details. Please note the optional requirement of process cooling chillers as well.	Main RFP and Specification document- Page no:103-104	Yes / No / Explain		

85	Bulk and Process Gas Distribution/Hook up System	Main RFP and Specification document- Page no:104-121	Yes / No / Explain		
86	Piping Distribution network for Specialty & Bulk Gases	Main RFP and Specification document- Page no:115 -121	Yes / No / Explain		
87	Gas monitoring, Tool hook up and Toxic/Hazardous gas monitoring system:	Main RFP and Specification document- Page no:121-126	Yes / No / Explain		
88	Safety system details for Gas Management System:	Main RFP and Specification document- Page no:126-132	Yes / No / Explain		
89	Annexure 5. Fire Detection System and Control Panel Specifications	Refer Annexure 5 Document for detailed specifications	Yes / No / Explain		
90	A. FDA PANEL (FIRE DETECTION ALARM PANEL) and ADDRESSABLE MULTI SENSOR FIRE DETECTORS, ANALOG ADDRESSABLE LASER SMOKE DETECTORS	Annexure 5 Page no:5	Yes / No / Explain		
91	C.ADDRESSABLE MANUAL PULL STATION,FAULT ISOLATOR MODULE,INTERCONNECTING CABLE FOR FIRE ALARM SYSTEM DEVICES,ADDRESSABLE SOUNDER WITH STROBE, ZONE INTERFACE MODULE:	Annexure 5 Page no:7,8	Yes / No / Explain		
92	D.OUTDOOR ENCLOSURE FOR FDA PANEL & ITS ACCESSORIES:	Annexure 5 Page no:7	Yes / No / Explain		
93	E.FLAME DETECTOR	Annexure 5 Page no:8	Yes / No / Explain		

94	Tool hook-up: Vendor to hook up the gas facility lines, and the required safety features and necessary utilities to the the existing process tools and Point of connections(poc) shall be provided for other equipment as mentioned in the utility matrix.	Main RFP and Specification document- Page no:132	Yes / No / Explain		
95	Commissioning & Validation	Main RFP and Specification document- Page no:133-135	Yes / No / Explain		
96	Recommended Makes. Vendor's Equipment Makes list for the project from the list of recommended makes to be submitted	Main RFP and Specification document- Page no:141-145	Yes / No / Explain		
97	Project Duration (10+2 months), Payment Terms, Warranty and Other Conditions	Project acceptance/completi on shall be on successful installation, testing and commissioning of all the systems covered in the contract agreement and acceptance of the project (Phase I&II). The vendor is expected to submit the relevant submittals as mentioned in section 4.3 before start of the work. Main RFP and Specification document- Page no:135	Yes / No / Explain		

98	Warranty and AMC :i) Vendor shall provide three (3) year on-site comprehensive warranty for the entire installation and include the same in their base price. The warranty shall be for 3 year from the date of installation and acceptance on successful commissioning. AMC optional	Details as Main RFP and Specification document- Page no:138	Yes / No / Explain		
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99	Payment Terms details	<p>Priced BOQ of selected vendor will be considered for payment. Details in RFP section 15.2</p> <p>(1) Supply: Supply cost shall not exceed 75% of the total cost of Supply & Installation, Testing & commissioning for each item of the BOQ. Payment @60% of the Supply cost shall be made upon delivery at IIST and acceptance of the item by IIST. This acceptance shall, however, not absolve the vendor from the responsibility of satisfactory Testing and commissioning of the item.</p> <p>(2). Installation:20 % of supply value and 80 % of the value of installation will be paid on installation on milestone basis based on the progress of the project, Milestone 1: Installation related to cleanroom Milestone 2: Installation of HVAC systems Milestone 3 Installation of Utilities Milestone 4: Installation of Gas distribution systems, Building management system, safety systems</p> <p>(3). Validation and Certification: The 10% of the supply value and 10% of the installation value will be paid on successful commissioning and testing and validation (As Built). The final 10% of the project value will be paid on Tool Hookup, Validation</p>	Yes / No / Explain		
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		(Validation At Rest”) of cleanroom, validation of gas distribution system and other utilities mentioned in RFP and submission of validation document approved by IIST and expiry of the warranty period of three (3) years. In lieu of cash retention of the 10% of the supply and installation value, the vendor shall have the option to provide Bank Guarantee of equivalent amount valid till the expiry of warranty period.			
100	General Conditions, Material & Workmanship (points A-J)	Main RFP and Specification document- Page no: 12-13, Page no:138-140	Yes / No / Explain		

Document : Annexure 1- IIST Cleanroom layout

Document : Annexure 2- Site details with relevant drawings , conceptual P&ID drawings

Document : Annexure 3- Equipment Power Rating

Document : Annexure 4-Matrix for Clean room and Utility Design

Document : Annexure 5- Fire Detection System and Control Panel Specifications

Document : Annexure 6- BOQ Format

Document : Anenxure 7- Compliance Matrix

Document : Annexure 8 Supporting Documents Tool Hookup

Document : Main RFP and Specification document

Common Specifications (Applicable for all items)

SI No	Specification	Value	Compliance	Offered Specification	Remark
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1	Setting up of MEMS & Nanofabrication cleanroom Facility with the following work packages as per the detailed RFP and Main Specification document	The facility to be setup in the Avionics Block , IIST as per the detailed specifications provided in the Main RFP and Specification document and its annexures provided as Main RFP and Specification document.pdf	Yes / No / Explain		
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Supporting Documents required from Vendor

- 1. Detailed priced Bill of Quantity/Materials envisaged for the project, Make/Brands of all the equipment's/materials conforming to the specifications in this RFP document (Price Bid Related)**
- 2. Copy of audited Annual Accounts by a chartered accountant for the previous 5 (five) financial years of the prime bidder**
- 3. Current (not prior to six (6) months) solvency certificate from any scheduled bank of the prime bidder**
- 4. Chartered Accountant's certificate for the annual financial turnover of the prime bidder**
- 5. Copies of the POs/work orders executed by the other/associated firm with Documents evidencing satisfactory completion issued by the respective clients/organizations shall also be submitted along with the bid**
- 6. (MOU) between the prime bidder and the firm/party with whom they shall associate for the project (as applicable norms)**
- 7. Copies of Purchase Orders/ work orders in respect of "similar work" executed by the party/firm with Documents evidencing satisfactory completion**
- 8. Organization Chart of the Key personnel proposed for the proposed Project. Site and project management by experienced Clean room team.**
- 9. PERT/GNAT Chart (Time schedule – Mile stone chart)**
- 10. Relevant catalogues & Technical Specifications of the proposed makes**

11. SEMI S2 certificate of the Gas cabinet and gas panels.
12. Schematic Process Exhaust/Extraction System including Exhaust Duct routing/size etc with reference to Process tools take off points & P&ID
13. Piping Layout connecting the process tools with Gas panels, Gas cabinets scrubbers & connecting to Extraction Exhaust connections & Utilities etc.
14. Gas cabinets/ Gas panels/Gas Manifold / VMBs layout and typical P&ID diagrams for all services including the GAS Cabinets with relative Gas Panels.
15. Schematic of Gas pad/gas yard layout and drawing, indicating the Location of GAS distribution System
16. Compressed Dry Air Piping layout with reference to the Compressor & Connecting to the Process tools. P&ID of Compressed dry air indicating all the Components Like Valves, regulators, fittings, Gauges etc.
17. Utilities distribution layouts
18. Single Line diagrams of electrical system, P&ID diagrams of relevant Electrical items
19. Some typical Cross section of the Cleanrooms
20. Detailed Cleanroom Layout Drawings of Reflected ceiling plan of all clean rooms showing Ceiling panels, HEPA Filters, Light fixtures
21. Cleanroom Layout Plan showing Modular Wall Panels, Glazed View Panels, Doors, Return Air Raisers positions.
22. Pressure Gradient Zoning Layout drawing
23. AHU wise Zoning Layout Drawing
24. Air flow Diagram AHU wise supply air, return Air & Fresh Air etc.
25. Typical P&ID for chillers and AHUs
26. Summary of Design & Selection of TR, Supply Air, return air, AHU Capacity, Fresh air, Heater etc. (without this Heat Load calculation the Technical Submittal will not be accepted)

27. Heat Load Calculations Room wise all sheets & summary sheet (without this Heat Load calculation the Technical Submittal will not be accepted)

28. Detailed un-priced Bill of Quantity/Materials envisaged for the project, Make/Brands of all the equipment's/materials conforming to the specifications in this RFP document (As per the format of model of BOQ in Annexure 6)

29. Detailed compliance sheet as per the given format for RFP and Annexures.

5 additional documents can be uploaded by the vendor

C.2 Commercial Terms / Bid

Sl. No.	Description	Compliance	Vendor Terms
1	1. Submittals as mentioned in the section 4.3 for selected vendor. 2. Design, supply, installation, commissioning, tool hookup and validation as detailed in the Main RFP and Specification document.pdf	Yes / No / Explain	
2	Warranty	Yes / No / Explain	
3	Installation	Yes / No / Explain	
4	Commissioning	Yes / No / Explain	
5	Training	Yes / No / Explain	
6	This tender is proposed as a DOMESTIC PUBLIC TENDER. This tender is restricted only to Class-I and Class-II Local Suppliers as defined under DPIIT Order - Preference to Make in India Order-2017 Revision. Non-Local Suppliers need not quote. Foreign OEMs/Agents quoting on behalf of Foreign OEMs are not permitted to quote. High Sea Sales Quotes not permitted. The bids shall be in INR only.	Yes / No / Explain	
7	Mention your category whether Class-I local supplier OR Class-II local supplier OR Non-Local supplier. (LOCAL CONTENT (Applicable for procurement value of Rs 5 Lakh or more) : A supplier or service provider, whose goods, services or works offered for procurement, has local content as per DPIIT notification no. F-45021/2/2017- (BE-II) dated 15..06.2027 and subsequent amendments issued). Attach a self declaration for the same	Yes / No / Explain	

8	Please mention the percentage of local content. (The local content is not on the basis of profit, warehousing, marketing, logistics, freight, transportation, insurance, installation, commissioning, training, after sales services, license fees, royalties paid, technical charges paid, repacking/refurbishing/rebranding of imported products, AMC/CAMC etc as local value addition.) Also specify the location(s) at which the local value addition is made. Attach a self declaration for the same.	Yes / No / Explain	
9	The vendor have to compulsorily submit the compliance statement online otherwise their offer will not be considered for further evaluation. Before entering the compliance statement, vendors are advised to refer the detailed specification provided.	Yes / No / Explain	
10	Delivery Term: FOR : IIST, VALIAMALA, Trivandrum, Kerala is our normal delivery terms. If "NO" specify the exact delivery term with relevant details in remarks column.	Yes / No / Explain	
11	I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India as per the Rule 144(xi) of General Financial Rule 2017; I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that this bidder fulfills all requirements in this regard and is eligible to be considered.	Yes / No / Explain	
12	In case a bidder is an MSE OEM, registered under NSIC or any other Government Agencies and would like to avail preference/exemption, offer should be accompanied with necessary registration certificate with declaration to consider their offer. Quotation received without such declaration, valid registration certificate and necessary documentary proof will not be considered for preference/exemption under the Public Procurement Policy.	Yes / No / Explain	

13	<p>Security Deposit: Security Deposit (Where ever the offer value is Rs 5.00 Lakhs and above) -You should submit Security Deposit @ 3% of order value in the form of insurance Security Bonds,Account Payee Demand Drafts, Fixed Deposit Receipt, Bank Guarantee (Rs.200/- stamp paper) in the prescribed format (DOS:PM:07) from a Nationalized/ Scheduled Bank valid for 2 Months beyond the date of completion of order obligation along with order acknowledgement. Documentary proof of Online payment also acceptable as Security Deposit.This security deposit without any interest thereon shall be returned to the Supplier on successful completion of the Purchase Order or shall be adjusted/forfeited against non-fulfilment of any of the contractual obligations. MSME/NSIC Units are NOT EXEMPTED from the payment of Security Deposit.</p>	Yes / No / Explain	
14	<p>Performance Bank Guarantee (PBG) : You shall furnish performance Bank Guarantee in Rs.200/-non judicial stamp paper from a Nationalized/Scheduled Bank which shall be valid beyond 2 months from the expiry of warranty/guarantee period as per the format provided by the Department. Please refer RFP document in the tender for details.</p>	Yes / No / Explain	
15	<p>SD CUM PBG : In case, if parties are unable to provide two separate BGs, i.e., one for SD and one for PBG, they can submit a combined BG for SD & PBG within 10 days of receipt of order for 3% of order value valid till the completion of total contractual obligation (i.e., supply period plus warranty period plus 60 days) as per the format provided by the Department.</p>	Yes / No / Explain	
16	<p>Warranty : Warranty of the item (No. of Years shall be clearly mentioned as well as specified in the technical document enclosed.) Warranty for the offered item shall be from the date of installation/acceptance of the item at our site for a minimum period of one years or as specified in the tender document. NOTE: (Details to be furnished in Vendor Terms Column)</p>	Yes / No / Explain	

17	The offer from suppliers who are not agreeing to submit Warranty, Security Deposit & Performance Bank Guarantee will NOT be considered.	Yes / No / Explain	
18	Offer Validity: Minimum 90 days [for Single Part Tender]/180 days [for Two Part Tender]. (Mandatory compliance required. Failure to comply shall lead to the rejection of offer).	Yes / No / Explain	
19	SPLIT ORDER : Please mention the acceptance of partial/split order without alteration of the terms and conditions of the quote. The bids complying the partial/split orders will only be considered as reposnsive.	Yes / No / Explain	
20	Payment Term: Please refer RFP document in the tender.	Yes / No / Explain	
21	TAXES AND EXTRA : Taxes and other costs, if any. [Please Specify the rates]. All Tax invoices issued by Suppliers / Service Providers shall invariably bear their GST registration number (GSTIN) and the applicable GST rates. In the absence of which, the invoices shall not be processed for payment.	Yes / No / Explain	
22	Delivery Period : If any specific delivery period is mentioned in the tender, please comply the same. If not agreed, please mention your delivery period in remarks column. [LD Clause applicable]	Yes / No / Explain	
23	Liquidated Damages (mandatory compliance required) - the delivery period mentioned in the order is the essence of the order /Contract. In case of delay in delivery of material as per the delivery schedule mutually agreed and stipulated in the order, Liquidated Damages@0.5% per week or part thereof on the undelivered portion subject to a maximum of 10% of the contract value shall be levied. Hence delivery date mentioned in the quotation shall be realistic. Failure to comply shall lead to the rejection of offer.	Yes / No / Explain	
24	If any of the bidders submit any forged or false documents along with the Tender, such tenders will be summarily rejected and such bidders will be blacklisted for all future tenders.	Yes / No / Explain	

25	PO ordering address in full with Contact Persons Name, E-mail id, Phone No. You may also attach your Quotation in PDF format without price details.	Yes / No / Explain	
26	BANK DETAILS : Bank Details, viz., Bank Name, Branch, Address, Account No., IFSC(Details to be given in Vendor Terms Column)	Yes / No / Explain	
27	PAN NO. : PAN No. (Details to be furnished in Vendor Terms Column)	Yes / No / Explain	
28	GST NO.: GST No. (Details to be given in Vendor Terms Column)	Yes / No / Explain	
29	Any Other Terms and Conditions	Yes / No / Explain	

C.3 Price Bid

Sl. No.	Item	Quantity	Unit Price	Currency	Total Price	Remark
1	MEMS and Nanofabrication Semiconductor or Cleanroom Facility	1.00 Lot		-		