

All India Institute of Medical Sciences

Veerbhadra Marg, Pashulok,
Rishikesh-249203



Tender document for Establishment of Molecular biology lab on Turnkey Basis at AIIMS
Rishikesh

Ref. No.	:	47/01/Molecular lab/2019/RIS/ES-596
Publishing Date	:	07-02-2020 at 3.00 PM
Pre Bid Meeting	:	18-02-2020 at 3.00 PM
Bid Submission Start Date	:	07-02-2020 at 3.00 PM
Last Date of Bid Submission	:	27-02-2020 at 3.00 PM
Technical Bid Opening	:	28-02-2020 at 3.00 PM

Tender documents may be downloaded from institute's web site www.aiimsrishikesh.edu.in
(for reference only) and CPPP site <https://eprocure.gov.in/eprocure/app>

TENDER NOTICE

AIIMS, Rishikesh, Virbhadra Marg, Rishikesh, Dehradun

Dated: 07-02 -2020

1. E-tenders in Two Bids (Technical & Financial) are invited on behalf of the Director, All India Institute of Medical Sciences, Rishikesh from interested and eligible Specialized agencies having similar work experience in construction of molecular Labs or clean room labs for Establishment of Molecular biology lab on Turnkey Basis at AIIMS Rishikesh.
2. Bids shall be submitted online only at CPPP website: <https://eprocure.gov.in/eprocure/app>.
3. The complete bidding process is online. Bidders should be possession of valid digital Signature Certificate (DSC) for online submission of bids. Prior to bidding DSC need to be registered on the website mentioned above. For any assistance for e-bidding process, if required, bidder may contact to the helpdesk at 0135-2462915.
4. Tenderer/Contractor/Bidders are advised to follow the instructions provided in the 'Instructions to the Contractors/Tenderer/Bidders for the e-submission of the bids online through the Central Public Procurement Portal for e Procurement at <https://eprocure.gov.in/eprocure/app>'.
5. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
6. Hard Copy of original technical bid with earnest money deposit and tender fee etc. must be delivered to AIIMS, Rishikesh on or before last date/time of Bid Submission as mentioned above. The bid without EMD and tender fee will be summarily rejected. The scanned copy of the EMD and Tender fee should be attached in the technical bid.
7. The tender shall be submitted online in two part, viz., technical bid and financial bid. All the pages of bid being submitted must be signed and sequentially numbered by the bidder irrespective of nature of content of the documents before uploading.

The offers submitted by Telegram/Fax/email shall not be considered. No correspondence will be entertained in this matter.

8. Any future clarification and/or corrigendum(s) shall be communicated through Superintending Engineer on the AIIMS, Rishikesh website: www.aiimsrishikesh.edu.in. And other Central Government Procurement Websites (*subject to its access of AIIMS Rishikesh*).The bidders are required to regularly check the website to know about any/all such corrigendum(s) as only these bids, taking care of such corrigendum(s) shall be considered for finalisation of the tender.
9. Bidder should necessarily enclose a covering letter mentioning a summary of applied document with proper numbering. Secondly, bid should also attach a compliance sheet as per specification mentioning that they are complying to all specification or have any variation.
10. The pre bid conference would be held on **18/02/2020 at 03.00 PM** in the office of Superintending Engineer, AIIMS, Rishikesh. All firm's representative who are attending the pre bid meeting, shall produce an authorization letter from their firm on the firm's letter head. They are required to put their query in writing before the committee and submit the same in writing on its letter head..
11. All the duly filled/completed pages of the tender should be given serial /page number on each page and signed by the owner of the firm or his Authorized signatory. In case the tenders are signed by the Authorized signatory, a copy of the power of attorney/authorization may be enclosed along with tender. A copy of the terms & conditions shall be signed on each page and submitted with the technical bid as token of acceptance of terms & conditions. Tender with unsigned pages/incomplete/partial/part of tender if submitted will be rejected out rightly.

12. Any omission in filling the columns of Financial Bid form (Schedule of Rates) shall debar a tender from being considered. Rates should be filed up carefully by the tenderer. All corrections in this schedule must be duly attested by full signature of the tenderers. The corrections made by using fluid and overwriting will not be accepted and tender would be rejected.

13.(i) **Bid Security:** -The bidder shall pay the respective amount of Bid Security (EMD) as mentioned in table-I along with the Technical Bid by way of demand draft/FD/TD/CD/BG in favour of "AIIMS, Rishikesh" drawn on any Nationalized Bank/ Scheduled Bank and payable at Rishikesh and must be valid for (6) six month. Bids received without tender fees and Earnest Money deposit (EMD) shall stand rejected and thus shall not be considered for evaluation etc. at any stage. The original EMD will be put in cover-I containing with Technical bid.

- a) The Public Sector Undertaking of the Central/State Govt./MSEs/MSME/Registered with Central Purchase Organization are exempted from furnishing Earnest Money along with tender, **subject to submission of its valid proof.**
- b) The firms Registered with DGS & D/SSI and any approved source of Centre/States Govt. are not exempted from furnishing Earnest Money in so far as this institute is concerned.
- c) Earnest Money deposited with AIIMS, Rishikesh in connection with any other tender enquiry even if for same/similar material / Stores by the tenderer will not be considered against this tender.

(ii) EMD is required to protect the purchaser against the risk of Bidders conduct. The EMD will be forfeited if the bidder withdraws or amends its tender or impairs or derogates from the tender in any respect within the period of validity of its tender or if it comes to the notice that the information/ documents furnished in its tender is incorrect or false.

14. The bid security (EMD) without interest shall be returned to the unsuccessful bidders after finalization of contract with successful bidder.

15. Bidders are not allowed to submit more than one bid for the same/similar tendered item else all his bids shall be cancelled thereby making him disqualified in addition to the forfeiture of the EMD.

16. The successful bidders have to execute a contract on Indian non judicial stamp paper of Rs.100/- (Rupees one hundred only) within twenty-one (21) days from the date of award of this tender in his favour and also required to furnish the **Security Deposit @ 10%** in the form of FD/BG/TD/CD for **three months extra of the contract period** from any Nationalised/Schedule bank duly pledged in favour of AIIMS, Rishikesh & payable at Rishikesh only. The EMD deposited by successful bidder may be adjusted towards Security Deposit as demanded above after its validation for the required period. If the successful bidder fails to furnish the full security deposit or difference amount between Security Deposit and EMD within 21 (twenty-one) days after the issue of **Letter of Award** of Work, his bid security (EMD) shall be forfeited and award of tender in suppliers favour automatically stands terminated at his cost & liability, unless time extension has been granted by AIIMS, Rishikesh.

17. The EMD/PBG shall be forfeited if successful bidder fails to supply the goods/equipment in stipulated time or fails to comply with any of the terms & conditions of the contract or fail to sign the contract.

18. The bid shall be valid and open for acceptance by the competent authority of AIIMS Rishikesh for a period of 180 (one hundred eighty) days from the published date of opening of the tenders and no request for any variation in quoted rates and / withdrawal of tender on any ground by bidders shall be entertained. The unilateral withdraw at any stage will cause forfeiture of EMD in addition to any remedy that the purchaser may have under the law.

19. To assist in the analysis, evaluation and computation of the bids, the Competent Authority, may ask bidders individually for clarification of their bids. The request for Clarification and the response shall be in writing but no change in the price or substance of the bid offered shall be permitted.
20. After evaluation, the work shall be awarded normally to the Agency fulfilling all the conditions of the contract and who has quoted the lowest rate as per financial bid after complying with the all the Acts / provisions stated / referred to for adherence in the tender.
21. The competent authority of AIIMS, Rishikesh reserves all rights to accept or reject any/ all tender(s) without assigning any reason. It can also impose/relax any administrative term and condition/specifications of the tender enquiry after due discussion in pre-bid conference. This will be communicated and shown over the website of the Institute. No representation will be considered after pre-bid meeting and **bidders may ensure its queries only in pre-bid meeting.** AIIMS, Rishikesh also reserves the right to reject any bid which in his opinion is non-responsive or violating any of the conditions/specifications without any liability to any loss whatsoever it may cause to the bidder in the process.
22. Tender must be submitted on the prescribed Tender Form otherwise tender will be cancelled straightway.
23. The tender form is not transferable.
24. Canvassing in any form is strictly prohibited and the tenderers who are found canvassing are liable to have their tenders rejected out rightly.
25. It is required by all concerned, namely the Bidders/Suppliers, as the case may be to observe highest standard of ethics during the procurement and execution of this Tender.
26. Installation at consignee's site should be free of cost immediately on arrival of equipment at consignee's site.
27. In case the quality of goods supplied are not in conformity with the standard given in tender and as per the samples supplied or the supplies are found defective at any stage these goods shall immediately will be taken back by the supplier and will be replaced with the tender quality goods, without any delay. The competent authority reserves all rights to reject the goods if the same are not found in accordance with the required description / specifications and liquidates damages shall be charged in addition to the cost of re- tender. The supplier is required to provide the demonstration of equipment at AIIMS premises to the AIIMS representatives for its evaluation as per the specification & desired functionality standard. However, a submission of videography displaying functionality as per tender specification may also be considered by the AIIMS, representative.
28. In case the bidder on whom the supply order has been placed, fails to make supplies within the delivery schedule and the purchaser has to resort risk purchase, the purchaser (AIIMS, Rishikesh) may recover from the tender the difference between the cost calculated on the basis of risk purchase price and that calculated on the basis of rates quoted by tenderer. In case of repeated failure in supplying the order goods the supply order may be cancelled and bid security deposit will be forfeited.
29. Where the specifications are as per tenderer's range of products the tenderer's offer should mention that the item meets all specifications as per the tender enquiry and if there are improvements/deviations the same should be brought out on separate Letter Head of the firm. It would be discretion of the competent authority of the institute to accept or reject such deviations which are not in accordance with our required specifications as given below the financial bid. It must be mentioned clearly whether bidder is a manufacturer/sole distributor/ sole agent for the items for which he is quoting.

- a. **Manufacturer** must add a certificate that item(s) is manufactured by them as per range of products.
- b. **Sole Manufacturers** must add a certificate that they are the sole manufacturer of the Item for which they are quoting in this tender enquiry & item is /are their proprietary Item in India. The rate certificate is also required from the sole manufactures that the Rates quoted are the same as they quote to other State/Centre Govt./reputed Private Organisation and DGS&D rate for the similar item(s) and these are not higher than those quoted by them.
- c. **Authorized agents** must add authority letter from their Manufacturer/Principals on the letter head of the manufacturer/principals signed by a competent person and comes in proforma given in attach must duly supported by a notarised affidavit on Indian Non Judicial Stamp Paper of Rs.10/- (Rupees ten only) that they are quoting Rates on behalf of them. The authorization letter must give/mention the purpose for which it is allowed. The validity period of the authorization letter must be mentioned in the authority letter otherwise tender will be liable to rejection.

31. The bidders should have furnished a copy of GST/S.T. /C.S.T./VAT registration number, the State / U.T. of registration and the date of such registration. Tenders not complying with this condition will be rejected.

32. **Turnover provisions:** - (i) The tenderers should submit along with the tender, a photo state copy of the 5 Crore Average Annual Turnover in last 3 years Annual Accounts with Audit certificate by Chartered Accountant, Income Tax returns and a copy of current valid income tax clearance certificate (IT CC), otherwise bidder will not be considered for administrative evaluation (in evaluation of Technical bid) and will be declared **disqualified** in technical evaluation.

(ii) In case of bidder falls under Section 44AD/44ADA/44AE of Income Tax shall be required to submit turnover certificate verified by Chartered Accountant with his Registration number issued by Institute of Chartered Accountants of India.

(iii) In case of supplier is an Indian Agent, the firm can submit copies of purchase orders issued in favour of firm (*As the payment is made through LC directly to foreign manufacturer and equipment payment does not exist in the book of account of the supplier*) in support to its turnover whatever amount is getting short.

(iv) There will be relaxation on turnover on *case to case* basis for **Start-up firms** registered by Government of India under Start-ups scheme as per orders of Ministry of Commerce, Government of India.

33. **Sample/demonstration:** - In case, the item required prior submission of sample/ performing demonstration, tenderer will have to submit sample/perform demonstration of the equipment/item to the competent authority of the institute, the bidder will have to born all the expenses for the same. Non submission of sample/non performing demonstration will **disqualify** the bidder in the technical bidding process and financial bid of the bidder will not be opened.

34. The tenderer hereby guarantees that the equipment supplied to the Institute (purchaser) under the Contract shall be of the best quality/latest version and workmanship and new in all respects and shall be strictly in accordance with the specification and particulars contained/ mentioned in the Tender Document. The date of manufacturing of the equipment/goods supplied will not be more than 3 (Three months) old. The tenderer will have further guarantees that the said equipment would continue to conform to the description and quality aforesaid for a period of five (5) years guarantee period (As per MoH&FW guidelines), from the date of installation of the said equipment to the purchaser and notwithstanding the fact that the Purchaser (Inspector) may have inspected and /or approved the said equipment, if during the aforesaid period of five years the said equipment be discovered not to conform to the description and quality as required as per specification or not giving satisfactory performance or have deteriorated, the decision of the Purchaser in that behalf shall be final and binding on the tenderer and the Purchaser shall be entitled to call upon the tenderer to rectify the equipment or such portion thereof as is found to be defective by the purchaser within a reasonable period or such specified period as may be allowed by the purchaser in his discretion on/an application made thereof by the tenderer and in such an event, the above mentioned warranty period shall apply to the equipment replaced from the date of replacement thereof. In case of failure of the tenderer to rectify or replace

the equipment, within specified time, the purchaser shall be entitled to recover the cost with all expenses from the tenderer for such defective equipment.

35. Full description & specifications, make/brand and name of the manufacturing firm must be clearly mentioned in the tender, failing which, the tender will not be considered. The tenderer must also mention whether the goods are imported / indigenous. Descriptive literature / catalogues must be attached with the tender in original, failing which, tender may be disqualified.

36. Force Majeure: Any failure or omission to carryout of the provisions of this supply by the supplier shall not give rightfor any claim by supplier and purchaser to one against the other, if such failure or omission arise from an act of God which shall include all acts of natural calamities from civil strikes compliance with any statistics and or requisitions of the Government lockout and Strikes, riots, embargoes or from any political or other reasons beyond the suppliers control including war (whether declared or not) civil war or state of incarceration provided that notice of the occurrence of any event by either party to the other shall be within two weeks from the date of occurrence of such an event which could be attributed to force majeure. Any delay due to Force Majeure will not be attributable to the either of the parties.

37. The equipment installed should be up for 95% of the total warranty time. If the equipment is down for more than 5% suitable action shall be taken against the supplier including imposition of penalty as deemed fit.

38. If there is a close system the tenderer shall ensure and will have to submit an affidavit on Indian Non Judicial stamp paper of Rs.10/- along with technical bid that spare parts and consumables for these equipment's/instruments/item will be available at reasonable fixed rates for next 10 (ten) years, such rates should not be more than the rates supplied to institutes of national importance.

39. The successful Bidder shall at all times agree to indemnify and keep indemnified the purchaser against all losses, damages which may arise in respect of action/inactions of such Bidder or breach of any term of this tender by such Bidder. All claims regarding indemnity shall survive the termination of the contract with such Bidder.

40. Incase the vendor fails to supply the spare parts or fails to provide the agreed maintenance during the prescribed period, as per the terms of contract, the purchaser is automatically entitled to procure the required parts and hire services from the market at the risk and cost of the vendor, such inability of bidder will entail forfeiture the security deposit. The purchaser also reserves the right to terminate the contract on immediate notice, if the vendor fails to comply with this clause for more than one instance.

41. Liquidated damage/demerge: - The time for the date of delivery/ dispatch stipulated in supply order shall be deemed to be the essence of the contract and if the supplier fails to deliver or dispatch any consignment within the period prescribed for such delivery or dispatch in the supply order, liquidated damages may be deducted from the bill @ 0.5% per week subject to maximum of 10% of the value of the delayed goods or services under the contract. The competent authority of the institute may also cancel the supply at the cost & liability of the supplier. In such a case, bid security of the supplier shall stand forfeited. The supply of equipment must be in single consignment, inclusive of all parts & accessories in adherence to the specification so as to make the equipment fully functional at the time of the installation. No installation repeat shall be signed in case of absence of any part as per the specification.

42. Legal Jurisdiction: -The Courts at Rishikesh/ Dehradun alone and no other Court will have the jurisdiction to try the matter, dispute or reference between the parties arising out of this tender/supply Order/contract.

Applicable Law:

43. The contract shall be governed by the laws and procedures established by Govt. of India, within the framework of applicable legislation and enactment made from time to time concerning such Commercial dealings / processing.

44. Any disputes are subject to exclusive jurisdiction of Competent Court and Forum in Rishikesh/Dehradun, Uttarakhand India only.

45. Except as otherwise provided under this Contract for immediate termination of the Contract, in the event of a disputes which may be arising out of the execution of the tender contract, the matter will be referred to the Deputy Director (Administration). Appeal against the decision of the DDA will lie to the Director, AIIMS Rishikesh and his decision shall be final and binding upon both the parties.

46. At the time of awarding the contract, the purchaser reserves the right to increase or decrease up to twenty five (25%), the quantity of goods (round of to nextwhole number) without any change in the unit price and other terms & conditions quoted by the bidder.

47. The Rate Contract of Nurse calling System and misc. items is for period of 3+2 years.

I / We hereby accept the terms and Conditions given in the tender

(Signature & Stamp of the bidder)

Note- Please sign each page of document including terms & conditions & tender

(B) Financial terms and conditions

1. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BoQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BoQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.
2. Rates quoted should be inclusive of all applicable taxes, packing, forwarding, postage and transportation charges at for AIIMS Rishikesh (Site of installation/Use). Rates should be mentioned both in figures and in words.
3. The supplier has to submit a notarised affidavit on Indian Non Judicial Stamp Paper of Rs.10/- that the bidder has not quoted the price higher than previously supplied to any government Institute/Organisation/reputed Private Organisation or DGS&D rate in recent past. Therefore, if at any stage it has been found that the supplier has quoted lower rates than those quoted in this tender; the Institute (the purchaser) would be given the benefit of lower rates by the Supplier and any excess payment if any, will become immediately payable to the AIIMS, Rishikesh. If such affidavit is not submitted, tender will be out rightly rejected. (**Part of technical bid**)
4. **Guarantee / Warrantee Period:** The Tenderers must quote for 5 years' comprehensive warranty (Including all Spares, Accessories software application, if any and Labour) from the date of completion of the satisfactory installation. The warranty charges shall not be quoted separately otherwise the offer shall be summarily rejected. Also the bidders are requested to submit their quote (Rates) for subsequent 5 years Comprehensive Maintenance Contract (CMC) (Including All Spares, Accessories software application, if any and Labour). Failure to comply this condition will entail the rejection of the bids. The price comparison shall be taken into account on basic price and post warranty CMC.
4. **Custom Clearance:** For the Goods to be imported and supplied, the Institute will provide Custom Duty Exemption Certificate (CDEC) to successful bidder for availing concessional rate of duty as per prevailing Custom Tariff. In case, the bidder requires CDEC certificate, then the same should be specifically mentioned in the bid. The supplier is solely responsible for getting the material clearance from customs. Institute will provide all custom documents for custom clearance on the demand of supplier. The supplier undertakes to fully co-operate to avoid any fine, demurrage or other charges and shall indemnify AIIMS Rishikesh in case of any such failure. Transportation of goods up to AIIMS, Rishikesh and its successful installation and commissioning demonstration (and training, if required) is also the responsibility of the supplier. All charges/ expenses incurred in this process will be borne by the supplier and after submission of deposit slips of custom clearance and transportation charges will be reimbursed to the supplier if said provisions are to be shown separately in the financial bid.
5. **Payment terms:** -If the supplier supplied the requisite item within stipulated time and installation is pending on the part of AIIMS Rishikesh on various reasons, up to 90 *per cent* payment against supply can be made by the AIIMS Rishikesh on the case wise only, but will not be considered as precedence in all cases.
(A)Payment Term for Imported goods: For imported goods payment shall be made in the following manner:
 - a) On shipment: 75 % payment of the contract price shall be paid within 60 days after presentation of shipping documents { goods shipped shall be paid through irrevocable, non-transferable Letter of Credit (LC) opened in favour of the supplier in a bank in his country} and upon the submission of the following documents: -

- I. Four copies of Supplier's invoice showing contract number, goods description, quantity, unit price and total amount;
 - II. Original and four copies of the clean, on-board Bill of Lading/ Airway bill, marked freight prepaid and four copies of non-negotiable Bill of Lading/Airway bill.
 - III. Insurance Certificate;
 - IV. Certificate of origin by the chamber of commerce of the concerned country;
 - V. Certificate of country of origin;
 - VI. Manufacture's / Supplier's warranty certificate;
 - VII. Manufacturer's own factory inspection report.
- i. **On Acceptance:** 25 % payment would be made after satisfactory installation, commissioning, demonstration and training, if required on issuance of Inspection certificate by the AIIMS, Rishikesh.

B) PAYMENT TERMS FOR INLAND GOODS

(Seventy-five) 75% Payment of the contract price shall be paid on receipt of goods condition and upon the submission of the following documents: -.

- (i) One Original and Four Copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount.
- (ii) Final Acceptance as per Inspection report issued by faculty.
- (iii) Two copies of packing list identifying contents of each package.
- (iv) Inspection Certificate issued by the user concerned department.
- (v) Final Acceptance Certificate issued by the Institute

On Acceptance: -

- (i) Balance Twenty-Five (25) % payment would be made against 'Final Acceptance Certificate' as per Para (B) (i) &(v) of goods to be issued by the consignee's subject to recoveries, if any, either on account of non-rectification of defects/deficiencies not attended by the Supplier or otherwise.
6. **L1 Clause:** L1 firm will be decided on the basis of Total Price in addition with the CMC charges quoted by the firm. The CMC charges should be quoted separately in format provided in pdf.

NO DEMURRAGE / WHARFAGE CHARGES WILL BE PAYABLE BY THE INSTITUTE UNDER ANY CIRCUMSTANCES. NO ADVANCE PAYMENT WILL BE PAYABLE FOR CUSTOM CLEARANCE/ FREIGHT/INSURANCE ETC

Note: In case of any dispute regarding award of tender, decision of AIIMS Administration would be final.

I / We hereby accept the terms and Conditions given in the tender

(Signature & Stamp of the bidder)

“Establishment of Molecular biology lab on Turnkey Basis at AIIMS Rishikesh”

AIIMS, Rishikesh

TECHNICAL BID

(Documents to be attached in the “Technical Bid”)

1. Name & Address of the manufacturer and their authorised dealers/ distributors/ Specialized Agency with phone number, email, name and telephone/mobile	
2. Specify your firm/company is a manufacturer/ authorised dealer/ distributor/ Specialized Agency	
3. Whether the signature on each page has been made by the of bidder or not.	
4. Name, Address & designation of the authorized person (Sole proprietor/partner /Director)	
5. Have you previously established/constructed Molecular Biology Lab or Clean Rooms not less than 5 nos. in any government/ reputed private organization? If yes, attach the relevant poof.	
6. Self-Attested photocopy of the Ownership Document, in case of firm a Partnership Deed and Registration Certificate under Companies Act along with memorandum of association etc. as the case may be.	
7. Please attach copy of last three years’ of Income Tax Return	
8. Affidavit to the effect that the firm/individual will submit concurrent certificate of only one shop at a time from the AIIMS for running the trade mentioned in this tender.	
<p>9. Turnover</p> <p>a. Please attach balance sheet (duly certified by Chartered Accountant) for last three (3) years (Attach copy of annual average turnover which should not be less than 5crores duly certified by the Chartered Accountant)</p> <p>b. The bidder falls under Section 44AD/44ADA/44AE of Income Tax Act shall be required to submit turnover certificate verified by Chartered Accountant with his Registration number issued by Institute of Chartered Accountants of India.</p> <p>c. Indian Agent can submit its copy of POs of LC cases, in support of its amount getting short in required turnover.</p> <p>d. Start-ups may submit its Start-up Registration for consideration (<i>Relaxation in turnover can be considered as the case may be, subject to fulfilment of other conditions. However, it will not mandatory</i>)</p>	
10. PAN No. (Please attach copy)	
11. GST/VAT/Service Tax Registration Number. (Please attach copy)	
12. Acceptance of terms & conditions attached (Yes/No). Please sign each page of terms and conditions as token of acceptance and submit as part of tender document with technical bid. Otherwise your tender will be rejected.	

13. Power of Attorney/authorization for signing the bid documents (Not required in case of sole-proprietorship.)	
14. Please submit a notarised affidavit on Indian Non judicial stamp paper of Rs. 10/- that no case is pending with the police against the Proprietor/firm/partner or the Company (Agency). Indicate any convictions in the past against the Company/firm/partner.	
15. Please declare that proprietor/firm/company has never been black listed/debarred by any organization. An oath certificate to this effect may be enclosed on Rs.10 notarised stamp paper.	
16. Please submit a notarised affidavit on Indian Non Judicial Stamp Paper of Rs.10/- that they will provide complete warranty for all equipment's/items for 5 (five) years followed by CMC for further 5 (five) years of these equipment's/items.	
17. Please furnished a notarised affidavit on Indian Non judicial stamp paper of Rs.10/- that they will supply spare parts for next 10 years at reasonable price by submission of suitable benchmarks.	
18. Please submit one performance certificate from your customers to whom you have established such type of Molecular Biology Lab or clean Room in previous 3 years same one project as the value for the same needs to be higher than 1 Crores.	
<p>19. Details of the FD/DD/TD/CD of bid security (EMD) FD/DD/TD/CD No: Date: Payable at-</p>	<p>Detail of cost of Tender for Rs. 1180/- (if downloaded from website) DD No. Date: Payable at-</p>

Undertaking

1. I/We have read and understood the contents of the Tender and agree to abide by the terms and conditions of this Tender.
2. I/We shall supply the items of requisite quality and quantity at given rate in timely manner.
3. I/We also confirm that in the event of my/our tender being accepted, I/we hereby undertake to furnish within 15 days, Bank Guarantee/ Performance Security after the issue of Purchase Order, as applicable, in the format to be provided by AIIMS Rishikesh in addition to execution of a Contract as pre-condition for obtaining the supply orders.
4. I/We further undertake that none of the Proprietor/Partners/Directors of the firm was or is Proprietor or Partner or Director of any firm with whom the Government have banned /suspended business dealings. I/We further undertake to report to the AIIMS Rishikesh immediately after we are informed but in any case not later 15 days, if any firm in which Proprietor/Partners/Directors are Proprietor or Partner or Director of such a firm which is banned/suspended in future during the currency of the Contract with you.
5. I/We undertake that the information given in this tender are true and correct in all respect and I/We hold the responsibility for the same.

(Signature of the Bidder)

Name:

Designation with Seal of the Firm:

“Establishment of Molecular biology lab on Turnkey Basis at AIIMS Rishikesh”

**For
AIIMS, Rishikesh**

Chapter-II (Schedule of requirements & EMD)

Table-I

Details of items & their tentative quantity and EMD

The following Establishment of Molecular Biology Lab by specialize agencies having similar work experience of construction of Molecular Biology Lab or clean Rooms firms of repute are required.

S. No.	Item	Quantity	EMD
1	Establishment of Molecular Biology Lab	01	1.8 Lakhs

MANUFACTURER's / PRINCIPAL's AUTHORIZATION FORM

(Clause 11 (c) of **other terms and conditions** of the tender)

To

The Superintending Engineer,
All India Institute of Medical Sciences
Rishikesh

Dear Sir,

TENDER: _____.

we, _____, who are established and reputable manufacturers of _____, having factories at _____ and _____, hereby authorize Messrs. _____ (*name and address of agents*) to bid, negotiate and conclude the contract with you against Tender No. _____ for the above goods manufactured by us.

We hereby extend our full guarantee and warranty as per the conditions of tender contract for the goods offered for supply against this tender by the above firm.

The authorization is valid up to _____

Yours faithfully,

(Name)

For and on behalf of Messrs. _____
(*Name of manufacturers*)/Principal.

BANK GUARANTEE FORM FOR PERFORMANCE SECURITY/ CMC SECURITY

To

The Superintending Engineer
All India Institute of Medical Sciences
Rishikesh,
Virbhadr Marg,
Rishikesh-249201

WHEREAS _____ (Name and address of the supplier) (Hereinafter called “the supplier”) has undertaken, in pursuance of contract no _____ dated _____ to supply (description of goods and services) (herein after called “the contract”). AND WHEREAS it has been stipulated by you in the said contract that the supplier shall furnish you with a bank guarantee by a scheduled commercial bank recognized by you for the sum specified therein as security for compliance with its obligations in accordance with the contract; AND WHEREAS we have agreed to give the supplier such a irrevocable bank guarantee;

NOW THEREFORE we hereby affirm that we are guarantors and responsible to you unconditionally, on behalf of the supplier, up to a total of. _____ (Amount of the guarantee in words and figures), and we undertake to pay you, upon your first written demand declaring the supplier to be in default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We hereby waive the necessity of you to first demanding the said amount of guarantee from the supplier before raising the demand with us. You may directly raise the demand with us, without asking the supplier for the same.

We further agree that no change or addition to or other modification of the terms of the contract to be performed there under or of any of the contract documents which may be made between you and the supplier shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.

This guarantee will not be changed due to change in the constitution of the bank or the supplier.

This guarantee shall be valid up to 65 months from the date of satisfactory installation of the equipment i.e. up to --
----- (indicate date).

.....
(Signature with date of the authorized officer of the Bank)
.....
Name and designation of the officer
.....
.....
Seal, name & address of the Bank and address of the Branch

Instructions for Online Bid Submission:

The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

More information useful for submitting online bids on the CPP Portal may be obtained at: <https://eprocure.gov.in/eprocure/app>.

REGISTRATION

- Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: <https://eprocure.gov.in/eprocure/app>) by clicking on the link “Online bidder Enrollment” on the CPP Portal which is free of charge.
- As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate issued by any Certifying Authority recognized by CCA India (e.g. Sify / nCode / eMudhra etc.), with their profile.
- Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC’s to others which may lead to misuse.
- Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / e-Token.

SEARCHING FOR TENDER DOCUMENTS

- There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.
- Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective ‘My Tenders’ folder. This would enable the CPP Portal to intimate the bidders through SMS / email in case there is any corrigendum issued to the tender document.
- The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

PREPARATION OF BIDS

- Bidder should take into account any corrigendum published on the tender document before submitting their bids.

- Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid.
- Please note the Number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
- Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF/JPG Tender No. : formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
- To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use “My Space” or “Other Important Documents” area available to them to upload such documents. These documents may be directly submitted from the “My Space” area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

SUBMISSION OF BIDS

- Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- Bidder has to select the payment option as “offline” to pay the tender fee / EMD as applicable and enter details of the instrument.
- Bidder should prepare the EMD as per the instructions specified in the tender document. The original should be posted/couriered/given in person to the concerned official, latest by the last date of bid submission or as specified in the tender documents. The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.
- Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BoQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BoQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.
- The server time (which is displayed on the bidders’ dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
- The documents being submitted by the bidders would be encrypted using PKI encryption all techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key

- Further this key is subjected to asymmetric encryption using buyers/bid opener's public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- Upon the successful and timely submission of bids (i.e. after Clicking "Freeze Bid Submission" in the portal), the portal will give a successful bid submission message & a bid Tender No. : summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
- The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

ASSISTANCE TO BIDDERS

- Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
- Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk number 0120-4200462, 0120- 4001002.

Technical specifications for AHU

1. Double Skin Horizontal Air Handling Unit with Mixing Box, complete with double skin (45±2 mm) insulated with CFC free polurethane foam (PUF) panels of 42 Kg/cum density. Sandwiched between 0.6 mm thick G.I. Sheets. Outer skin shall be preplastized G.I. sheet and internal skin shall be plain G.I. Sheet. AHU frame works shall be of pre cast vertical and horizontal extruded aluminium profile with three way corner frame sections with THERMAL BREAK PROFILE. Frame construction should bear the load of structure and load of the frame structure shall be uniformly distributed along the entire housing of the AHU. Food grade self adhesive coated neoprene gasket to be provided between panels and structure of the AHU to ensure the entire housing is airtight. DIDW Backward curved fans to be supplied along with motor.
2. Motors shall be of EFF 2 efficiency rating. The base of the fan motor and blower should be made of extruded aluminum section with antivibration isolaters . Fan outlet should have fire retardant type flexible connection to prevent virbation transmission to the casing.
3. Handles and the locks shall have adjustable seating arrangements to exert variable pressure on the gaskets and ensure perfect sealing. Hinges shall be made of die cast from solid aluminium with stainless steel pivots and should have heavy duty load bearing capacity. AHU doors should be provided with interlock limit switch with including adequately rated LED bulb . AHU inspection door should have View window with perfectly sealed gaskets on either side to ensure air tightness along with heavy gauge aluminium Gear type Volume Control Dampers with extended lever for actuator control. Actuator should be of modulating type and should be supplied along with AHU. Virbation isolation rubber pads to be provided for AHU baseframe during installation. Matching Flanges to be provided along with AHUs. Supply & Installation of Control/Starter Panels for AHU Units along with Corder Type Inter - Connect Controls(Between AHU & Condensing Unit) to be Considered in the Supply Scope (Copper armoured cables between AHU - Starter panel & AC Distribution Box, Cable tray for laying cables, earthing wires/strips, termination lugs and all other associated works to complete the electrical installation starting from the starter panel out to AHU motor connection). Note : Refer AC Layout.

4. Hard drawn copper refrigerant pipes with 9mm thick closed cell elastomeric insulation for suction & discharge line with necessary fittings and associated accessories. Copper pipes to be laid in a Closed Type cable tray with supports . Copper pipes to be fixed to GI frame with supports and neoprene rubber gasket to be used between the copper pipes and the fixing clamp, the gasket should be capable of taking temperature more than 130 Deg C.
5. DX type cooling coils shall be of 6 - 8 Rows deep. Face Velocity across the coils should not exceed 500 FPM. DX cooling coils shall be constructed from premium quality seamless copper tubes and mechanically bonded to aluminium fins. DX cooling coils assembly shall be fitted on aluminium rails with nylon rollers for easy withdrawal from the AHU cabinet. DX cooling coil shall deliver actual capacity as mentioned below, complete with distributor (2 nos per coil), full face coil, Drain tray for DX cooling coils shall be made of single sheet of SS 304 grade stainless steel sheet and should have uniform slope from all sides leading to drain connection. Drain Pan shall be insulated with 25mm thick, 55kg/cum density closed cell elastomeric insulation. Mixing Box for Return Air with Filters Section shall house a pre filter section of MERV 8 (90% down to 10 microns) filters and provision to be made for bag filter section of MERV 13 (95% down to 5 microns) filters. AHU inspection door shall be fitted to the frame with easy release half turn nylon handles and cam locks.
6. AHU 1- 2200 CFM @ 150 mm TSP, 6 TR. Fan discharge can be on side with Top/Side Return. (Refer AC Layout for details or as per Site requirements)

OTHER TECHNICAL SPECIFICATIONS

1. All hardware items such as screws, thimbles, G.I. wires etc. which are essentially required for completing an item as per specifications will be deemed to be included in the item even when the same have not been specifically mentioned.
2. All hardware materials such as nuts/bolts/screws/washers etc. to be used in the work shall be zinc/cadmium plated iron.
3. Any conduit which is not be wired by the contractor shall be provided with GI fish wire for wiring by some other agency subsequently. Nothing extra shall be paid for the same.
4. While laying conduit, suitable junction boxes shall be left for pulling the wires.
5. Copper wire shall be FRLS PVC insulated multi-stranded conductor. Termination of multi-stranded conductors shall be done using crimping type thimbles at both the ends. Nothing extra shall be paid for the same.
6. The makes of material have been indicated in the list of acceptable makes. No other make will be acceptable. The material to be used in the work shall be got approved from the Engineer-in-Charge before its use at site. The Engineer-in-Charge shall reserve the right to instruct the contractor to remove the material which, in his opinion, is not as per specifications.
7. The proof of purchase in the form of Invoice/cash memo, of all the major components such as Cables, Wires, Fittings, MCB DB's, Geysers, Exhaust fans etc. shall have to be produced by the contractor at the time of final bill or as and when demanded by the deptt.
8. Test report of all the XLPE insulated PVC sheathed armoured power cables used at site of work shall have to be submitted by the contractor at the time of submission of final bill.
9. Where switches/sockets/telephone outlets are to be provided, the same shall be of only one make.
10. The MCB distribution boards shall be factory fabricated in the works of the manufacturer of the MCB's of any of the makes specified and the same shall be

duly pre-wired in the works. The board shall be brought to site in ready for installation condition. The MCBs and the MCB distribution board shall be of the same make.

11. The earthing shall be carried out in the presence of the Engineer-in-Charge or his authorized representative.
12. All fittings/fans will be earthed as per specifications.

TERMS AND CONDITIONS

1. The bad workmanship will not be accepted and defects shall be rectified at contractor's cost of the satisfaction of the Engineer-in-Charge. The programme of electrical works are to be co-ordinated in accordance with the building work and no claim for idle labour will stipulated in the tender, electrical work shall have to be completed within 30 days of the completion of civil work.
2. All the debris of the electrical works should be removed and the site should be cleared by the contractor immediately after the accruing of debris. Similarly any rejected material should be immediately cleared off from the site by the contractor.
3. Issue of material to the contractor wherever stipulated, shall be according to the requirement at site from time to time depending upon the progress of work.
4. Cement for this bonafied work is to be arranged and used by the contractor himself and nothing extra will be paid on this account.
5. The contractor or his representative is bound to sign the site order book as and when required by the Engineer-in-Charge and to comply with the remarks therein.
6. The size of conduit and wiring shall be got approved from the Engineer-in-Charge before taking upto the execution.
7. The contractor shall make his own arrangement at his own cost for electrical/general tools and plants required for the work
8. Main board and main distribution board: The work shall be carried out according to the drawings/details as approved by the Engineer-in-Charge. The contractor shall have to get the samples approved before the whole lot is brought to site and it shall include all inter connections etc.
9. No Central/State sales tax/VAT/Contract tax/Excise duty etc. shall be separately paid by the department. The rates tendered should be inclusive all taxes and duties (exclusive of service tax) Deduction of contract tax at source shall be made while releasing payment through running/final bills as applicable . A certificate specifying the rate and amount of deduction shall however be issued. No Form-D, 31/32 (Road permit) shall be issued by the department. The road permit shall be arranged by the tenderer on his own.

10. The entire installation shall be at the risk and responsibility of the contractor until these are tested and handed over to the department. However if there is any delay in construction from the department side, the installation may be taken over in parts, but the decision on the same shall rest with Engineer-in-Charge which shall be binding on the contractor.
11. Notwithstanding the schedule of quantities, all items of interrelated works considered necessary to make the installation complete and operative are deemed to be included shall be provided by the contractor at no extra cost.
12. The connection, inter connection, earthing and inter earthing shall be done by the contractor wherever required and nothing extra shall be paid on this account.
13. Some of the items of work, if already executed: on that case the successful tenderer shall have to use these items for completing the work. For wiring, the existing conduit wherever required shall be used by the contractor. The recovery will be made for these items as accepted rate of other agencies.
14. Nothing extra shall be paid for :-
 - (a) Inter connections with thimbles/wires/tapes strips etc.
- 19 The design parameter will have to restore, if there is any deviation in efficiency or design parameter will be intimated initially. Party has to provide Electrical/Mechanical Drawing if any change has to require for making full functional.
- 20 All system must have third party certification of the product if required
- 21 All necessary work required to make full functional will be taken up the successful bidder .
- 22 It is a SITC type job hence contractor is advised to inspect the site carefully before quoting the rates. The contractor shall be deemed to have satisfied himself to the nature & extent of work at site & no claim for extra payment/or time extension will be allowed on the ground that he was not conversant with condition providing at the site. The rate shall be inclusive of all taxes, accessories, machining & labor, dismantling i.e. site clearance & shifting the debris from work place to specified place at site etc. The Spare list given above is tentative hence contractor may provide a comprehensive list which is suppose to be require to make full functional facility.
- 23 . All tools and tackles required for overhauling will be arranged by the party
- 24 **Guarantee Period:-The contractor will be responsible for malfunctioning of Material/spares supplied by him, it might be due to poor workmanship or due to spare supplied by him, for a period of three year from the date of satisfactory completing the job. He has to rectify the fault arises due to above at own cost.**

25 The work has to be taken-up on TURNKEY BASIS. The scope of work includes designing, carrying out various preliminary pre-construction works like preparation of detailed execution drawings, structural drawings, completion drawings etc (excluding construction of building) including all minor Civil works such as water, sanitary pipelines, utility services, Providing all Internal and External, Clean Room facilities of various Classes, Providing Modular Furniture etc., which are detailed under the scope of work attached to this tender document.

28. Bidder shall execute all required civil electrical, peripheral lighting, plumbing, demolition and other works as required for complete installation and trouble free functioning of Molecular Lab as a part of Turnkey work.

LIST OF ACCEPTABLE MAKE

S. No.	Item	Name of Manufacturers
1.	FRLS PVC insulated copper conductor single core/ XLPE armoured cable cable for wiring. (ISI marked)	R.R Kable/ Havells/Grandlay/Polycab/Bonton
2.	Telephone Cables Co-exail TV cables	Delton/Kent/Finolex /Polycab
3.	CAT-6 Cables for LAN wiring & Internet Cable	D-Link/Legrand /Finolex/Avaya/Lucent/ RR Kable.
4.	MS Conduit i/c accessories (ISI marked)	AKG/BEC/NIC/Steelcraft / JPC Pipes/RMCON
5.	DWC Pipe	REX/Duraline/Gemini pipe
6.	Modular switch, socket/Telephone socket/cable TV socket/Data outlet Socket/Fan Regulator/Metal Boxes/ Occupancy sensor	Legrand-(Arteor)/ M.K.(Blenze)/ Crabtree/Anchor Woods/C&S
7.	GI Pipe	Tata/Jindal (Hissar)/Prakash Surya/Swastik
8.	Paints	ICI/Asian/Berger
9.	Terminal Blocks and connectors	Elmex/Eszen/Connect Well.
10.	Compact air insulated rising main.	Legrand/Schneider/L&T/GE
11.	MCB, MCBDB, RCBO's/RCCB's,	Schneider Electric/Legrand/L&T Hagger Siemens/ABB/C&S
12.	MCCB/Timer	Schneider Electric/ Siemens/Larsen & Toubro/ Legrand/L&T Multiline/ Havells/ABB/C&S
13.	SFU, FSU, HRC Fuses, cable management system/DLP Trunking	Schneider Electric/ Siemens/ Legrand/ L&T/ Havells/C&S
14.	Ammeter/Voltmeter	AE/IMP/Rishabh/HPL (only digital type to be used)
15.	Selector Switch/CT's	Kayee/Siemens/Bhartiya Cutler Hammer/L&T
16.	Change over Switch	HPL/H-Elcon/Standard/L&T/Siemens/ Havells/C&S
17.	Indicating Lamps	Teknic/Siemens/L&T/Vaishnov
18.	Panel Board/Feeder Pillar	Manufacturers having ISO 9001 certification & CPRI approved

19.	Energy Meter/Multifunctional/Intelligent Energy Meter.	HPL/L&T/Hensel/Anchor/Siemens.
20.	Fresh Air Fan/Wall Mounted Fan/Ceiling fan/Exhaust fan. (only energy efficient fans, consuming ≤ 50 W and CMM ≥ 200 for 1200 mm & 60 W and CMM ≥ 240 for 1400 mm shall be used).	Crompton/Orientp/Polar/Khaitan/ Ortem/ Usha
21.	Fluorescent/CFL/LED/Flood/Bulk head Fitting	Phillps/Wipro/syska
22.	Lamps	GE/Osram/Phillips/Wipro/C&S
23.	Wall Brackets	DECON/Phillips/GE/Havells
24.	Angle Holder/Batten Holder (ISI marked)	Kinjal/Emperor/Anchor
25.	Geyser	Racold/Crompton/Jaguar./AO Smith
26.	NRV/Gate Valve	Sant/Leader/BS
27.	XLPE insulated PVC sheathed aluminium cable upto 1.1 KV Gd	Polycab/Finolex//Nicco/KEI/Grandlay/ Gloster/Universal/Bonton/RR Kabel
28.	PVC conduit i/c accessories	Precision/Asian/Diamond/Mod./AKG/JPC Pipes
29.	Paino type Switches/Socket/TV / Telephone Outlet (ISI marked)	Anchor/Rider/Leader
30	Panels	Advance , shalabh , (ISO 9001 certification & CPRI approved)

Superintending Engineer,

AIIMS Rishikesh

S.no	Item Description	Quantity	Unit	Rate	Amount
1	Supply Installation Testing & Commissioning AHU : Double Skin Horizontal Air Handling Unit with Mixing Box, complete with double skin (45±2 mm) insulated with CFC free polurethane foam (PUF) panels of 42 Kg/cum density. Sandwiched between 0.6 mm thick G.I. Sheets. Outer skin shall be preplastized G.I. sheet and internal skin shall be plain G.I. Sheet. AHU 1- 2200 CFM @ 150 mm TSP,6 TR. Fan discharge can be on side with Top/Side Return.(Refer AC Layout for details or as per Site requirements). Note : Refer TECHNICAL SPECIFICATION OF AHU in tender document for full AHU details	1	nos		
2	Supply, installation, testing and commissioning of matching outdoor of capacity mentioned below, complete with scroll compressors, air cooled condenser coils, condenser fans with weather proof motors, safety controls, etc,. Sound pressure level should not exceed more than 60dBA @ 1mtr distance. 6 TR or higher as per requirement and approval of Engineer in charge and load actual capacity @ 40 deg C ambient Refrigerant 410A . Refrigerant copper piping with Hard drawn pipes insulated with nitrile rubber tubular insulation to be considered under this item. Note : Galvanized stands for Outdoor units, frames to painted with two coats of primer and two coats of synthetic enamel paint. Serrated rubber pads to be provided between the ODU Stand,base and floor to considered in the above Consensing Unit Costing.	1	<u>nos</u>		
3	Gas charging and other related Works	1	Job		
4	Supply , Installation , Testing and Commissioning of 2 core x minimum 1.5 sq mm Copper control cabling with saddles/ supports & PVC conduits to connect outdoor units with respective indoor units.	100	Mtr		

5	Any other items necessary but not included above(Canvas,PVC Sleeves & Etc).	1	Lot	
6	Factory fabricated 24 G GSS Ducting (Box ducts only) with TDF Flanges / MS angle frames (TDF flanges allowed for ducts of width 1500mm only, after 1500 mm MS angle frames to be used), Gripple supports, cleat joints, gaskets, bolts & nuts. GSS ducting shall meet the requirements of Class VIII. No fabrication at site. Ducts should be supplied covered using polythene sheets from factory. Make: Dev Duct, Note : Insulation (Thermal & Acoustic) to be made on the Inner Part/Side of the Ducting.	127	Sqm	
7	Factory fabricated 22 G GSS Ducting (Box ducts only) with TDF Flanges / MS angle frames (TDF flanges allowed for ducts of width 1500mm only, after 1500 mm MS angle frames to be used), Gripple supports, cleat joints, gaskets, bolts & nuts. GSS ducting shall meet the requirements of Class VIII. No fabrication at site. Ducts should be supplied covered using polythene sheets from factory. Make: Dev Duct , Note : Insulation (Thermal & Acoustic) to be made on the Inner Part/Side of the Ducting.	12	Sqm	
8	Supply & Installation of Class '1' type, 10 mm thick Open cell elastomeric Acoustic insulation with density not less than 120 kg to 140 kg / m ³ . Insulation material to be fire retardant. G.I Bull nosing should be provided in front & back of every piece of duct. Joining tapes & VOC free adhesive to be supplied with the insulation material by the insulation material manufacturer. Refer method statement in technical specification for insulation works. (Joining tapes to be 3mm thick and 100mm wide) Make: K-Flex/ Armacell /Superlon.	127	Sqm	
9	Supply & Installation of Class O type, 10 mm thick Closed cell elastomeric insulation for thermal insulation of ducts with microban material for prevention of fungus growth, with density not less than 60 to 80 kg / m ³ . Insulation material to be fire	138	Sqm	

	retardant. Joining tapes & VOC free adhesive to be supplied with the insulation material by the insulation material manufacturer. (Joining tapes to be 3mm thick and 100mm wide) Make: K-Flex/ Armacell /Superlon.			
10	DUCT ACCESSORIES:- Supply and installation of GI Volume Control Damper with aluminium aerofoil profile blade (Quadrant type and Opposed blade construction) with matching flanges on both side. The space between the bolts should be not more than 100 mm. Make: Cosmos / Airmaster / Ravistar/Jaydee.	1	<u>sqm</u>	
11	Supply,installation,testing and commissioning of motorised fire Control dampers with spring actuator. The dampers shall be of atleast 2.0 hours fire rating. The dampers shall be as per UL listed UL 555; 1995. The dampers shall be constructed out of 16G galvanized sheet steel. It shall be complete with control panel, actuator, sensor and inter-locking / wiring/ connection for tripping of AHU fan motor.Make: Cosmos / Airmaster , Size :-600 X 350	1	Nos	
12	Supply,installation,testing and commissioning of motorised fire Control dampers with spring actuator. The dampers shall be of atleast 2.0 hours fire rating. The dampers shall be as per UL listed UL 555; 1995. The dampers shall be constructed out of 16G galvanized sheet steel. It shall be complete with control panel, actuator, sensor and inter-locking / wiring/ connection for tripping of AHU fan motor.Make: Cosmos / Airmaster, Size :- 600 X 300	1	Nos	
13	Supply,installation,testing and commissioning of motorised fire Control dampers with spring actuator. The dampers shall be of atleast 2.0 hours fire rating. The dampers shall be as per UL listed UL 555; 1995. The dampers shall be constructed out of 16G galvanized sheet steel. It shall be complete with control panel, actuator, sensor and inter-locking / wiring/ connection for tripping of AHU	1	Nos	

	fan motor.Make: Cosmos / Airmaster , Size :- 200 X 200			
14	Supply, Installation, Testing & Commissioning of Variable Air Volume Terminal Box.Double Skin Construction with GSS Metal Body with Inner Lining of Thermal or Acoustic Insulation.VAV Terminal Box shall comprise of Damper,Control Panel,Air Flow Sensor, Air Mixing Chamber, Pressure Sensor, etc.VAV Outlet with TDF Flange Similar to the standard Duct Flange for Easy Connectivity. Make:Orient Eco,Vedha. Capacity :- 100 CFM	1	Nos	
15	Supply, Installation, Testing & Commissioning of Variable Air Volume Terminal Box.Double Skin Construction with GSS Metal Body with Inner Lining of Thermal or Acoustic Insulation.VAV Terminal Box shall comprise of Damper,Control Panel,Air Flow Sensor, Air Mixing Chamber, Pressure Sensor, etc.VAV Outlet with TDF Flange Similar to the standard Duct Flange for Easy Connectivity. Make:Orient Eco,Vedha. Capacity :- 250 CFM	2	Nos	
16	Supply, Installation, Testing & Commissioning of Variable Air Volume Terminal Box.Double Skin Construction with GSS Metal Body with Inner Lining of Thermal or Acoustic Insulation.VAV Terminal Box shall comprise of Damper,Control Panel,Air Flow Sensor, Air Mixing Chamber, Pressure Sensor, etc.VAV Outlet with TDF Flange Similar to the standard Duct Flange for Easy Connectivity. Make:Orient Eco,Vedha. Capacity :-400 CFM	3	Nos	
17	Supply and installation of Aluminium comb type collar damper with screw head for control of damper. Make: Cosmos / Airmaster / Ravistar/Jaydee.	1	<u>Sqm</u>	

18	Supply and Instalation of 22g GI sheet Spigot with butterfly dampers . Spigots to have projected notch for firmly fixing the flexible ducts. Spigot to be supplied with complete polythene covering from factory.Gasket to be provided in the damper orifice for low leakage. Make: Ravistar / Cosmos / Air master. Size :- 150 Ø	1	Nos	
19	Supply and Instalation of 22g GI sheet Spigot with butterfly dampers . Spigots to have projected notch for firmly fixing the flexible ducts. Spigot to be supplied with complete polythene covering from factory.Gasket to be provided in the damper orifice for low leakage. Make: Ravistar / Cosmos / Air master. Size :- 250 Ø	2	Nos	
20	Supply and Instalation of 22g GI sheet Spigot with butterfly dampers . Spigots to have projected notch for firmly fixing the flexible ducts. Spigot to be supplied with complete polythene covering from factory.Gasket to be provided in the damper orifice for low leakage. Make: Ravistar / Cosmos / Air master. Size :- 300 Ø	4	Nos	
21	Supply and instalation of insulated flexible duct for Supply/Return air diffuser. Ducts to be hung stretched and not left sagging. Tag of length 4" more than the spigot circumference to be supplied with the flexible duct , Size :- 150 Ø	2	<u>Rmtr</u>	
22	Supply and instalation of insulated flexible duct for Supply/Return air diffuser. Ducts to be hung stretched and not left sagging. Tag of length 4" more than the spigot circumference to be supplied with the flexible duct , Size :-250 Ø	3	<u>Rmtr</u>	
23	Supply and instalation of insulated flexible duct for Supply/Return air diffuser. Ducts to be hung stretched and not left sagging. Tag of length 4" more than the spigot circumference to be supplied with the flexible duct , Size :-300 Ø	6	<u>Rmtr</u>	

24	AIR TERMINALS:- Supply and installation Aluminium powder coated Supply air diffuser (with mixing Box) of Square Type diffusers with damper and projected notch for firmly fixing for flexible ducts connection .Make: Airmaster / Ravistar, Size :- 225 X 225 Neck Size (375 x 375 Outer Site)	1	nos	
25	AIR TERMINALS:- Supply and installation Aluminium powder coated Supply air diffuser (with mixing Box) of Square Type diffusers with damper and projected notch for firmly fixing for flexible ducts connection .Make: Airmaster / Ravistar, Size :-375 X 375 Neck Size (525 x 525 Outer Site)	4	nos	
26	Supply, Installation, Testing and Commissioning of Laminar Flow Diffuser with HEPA Filter of 99.99% efficiency down to 0.3µm (reduced static pressure loss). The unit shall comprises of adjustable Damper, Aluminum Plenum Box, LED status Indicator Light, external 1/2" aluminum fiberglass Insulation , Size Outer Size: 600 X 600 (300 Round Neck Connection)	7	Nos	
27	Supply and installation of CPVC drain pipes for condensate drain with all required supports and fittings. Make: Supreme,Astral. Size 32 Ø	20	Rmtr	
28	Painting and protection of exposed ducts with Two layers FRP coating with internal cloth for exposed ducts (Supply ducts, Return ducts) . Two coats of primer to applied prior to final painting. Paint to be corrosion resistant.	45	<u>sgm</u>	
29	Air curtian 1200mm SS 304	3	<u>set</u>	
30	CLEAN ROOM PARTITIONS/CLEAN ROOM PANELS & FALSE CEILING:- Providing and fixing Clean room ceiling panel :50mm thick double skin SS sheet on both side filled with PUF. SS 304 with PVC guard film, Size :- 0.8mm SS 304 +48.4mm EPS +0.8mm=50mm	70	Sqm	

31	Providing and fixing Clean room partition panel :50mm thick double skin SS sheet on both side filled with PUF. SS 304 with PVC guard film, Size :- 0.8mm SS 304 +48.4mm EPS +0.8mm=50mm	220	sqm	
32	SS Coving :- Providing and fixing Coving - SS Wall to floor,Wall to wall) , Type: R50 covings	150	Rmtr	
33	SS 3D Corner	30	set	
34	Miscellaneous:- Cutouts in false ceiling for modules, Cutouts in ceiling for fixing of Light Fixtures	16	set	
35	Light Fixtures:- Supply , installation , testing and commissoining of Clean room. SS compatible air tight light fixtures of size 610mm x 610mm 36 watt LED bottom openable type complete with all accessories. Make :Havells/Wipro/Philips	9	set	
36	SS Cleanroom Door with Dorma accessories, Dimensions:- 1600 mm x 2100 mm	3	set	
37	SS Cleanroom Door with Dorma accessories, Dimensions:- 1100 mm x 2100 mm	3	set	
38	Electrical :- Supply and installation of Switch board & power socket 15 Amps complete as required including all accessories Make: Legrand/Schnieder	20	set	
39	Electrical panel for the MCB/ MCCB Housing of suitable ratings along with Neutral connector and GI plating for Earthing.Individual MCBS For - Split unit, FFUs, PPU, exhaust, Lights, M/c. Refrigerator, Freezers and 3 MCBS for Electrical point. Made of 2.0mm thick CRCA sheet. shall be approved by Engineer in charge prior manufacturing, Make: Havells/ Seimens/Legrand/ Schnieder /	1	Lot	
40	Supply and installation of electrical wirings of suitable thickness from the main incomer(Electrical room) to the electrical panel and for parallel routing of all the subsystems inside the lab along with conduits and junction boxes.Make: Havells/ Finolex/ Equivalent.	1	Lot	

41	<p>Fabrication , Supply and Installation of SS Furniture (SS 304):- Lab furniture(with Granite) 750mmW*900H*560D, Lab bench with drawer and cupboard 20G , thick body of 22G with locker shelf (Powder coated). Top made by 16-17mm Black Granite with all required fittings</p>	14	<u>set</u>	
42	<p>Fabrication , Supply and Installation of SS Furniture (SS 304):-Lab furniture(with Granite) 600mmW*900H*560D, Lab bench with drawer and cupboard 20G , thick body of 22G with locker shelf (Powder coated). Top made by 16-17mm Black Granite with all required fittings</p>	5	<u>set</u>	
43	<p>Fabrication , Supply and Installation of Sink Cabinet size of 750mm Wx 900mm H x 560mm D, frame made of 22G and door 20G (Powder coated) Top shall be made of 16-17 mm black granite.</p>	5	set	
44	<p>Fabrication , Supply and Installation of Polypropellene Sink size of 560mmW x 355mm H x 245 mm D</p>	5	set	
45	<p>Supply and Installation Single Way Tap</p>	5	set	
46	<p>Clean Room Equipments :- Supply and Installation of LAF 1200X600X600 SS 304 Laminar Air flow , Outer body MS powder coated , inner body SS 304, Working Table of SS Top , Side panels of Transparent flexiglass frame, Fitted with prefilter and HEPA filter with 99.99 % efficiency , Flouroscent light for illumination, 220/230 Volt AC supply operated.</p>	1	set	
47	<p>Clean Room Equipments :-Supply and Installation of Biosafety cabinet SS 304, class II type B-2 , Made of SS 304 grade, working table made of SS perforated sheet , Airflow 0% recirculation and 100% exhaust, Transparent front vertical rising door, shall be fitted with HEPA with 99.99% efficiency , fitted with UV & FL light with illumination greater than 800 lux, Pressure manometer, 220/230 Volt AC supply operated.</p>	2	<u>set</u>	

