



# INDIAN INSTITUTE OF TECHNOLOGY DELHI

HAUZ KHAS, NEW DELHI – 110016

**AC DIVISION**  
**NIQ DOCUMENT**

**NAME OF WORK** : SITC of VRV/VRF AC unit in MS-315 (Physics Lab), IIT Delhi

**ESTIMATED COST ₹** : 15,66,078.00

**EMD ₹** : 31,322.00 (No exemption allowed)

**N.I.Q. No.** : 36/NIQ/IITD/AC/2026-27

**Date of Opening** : 09-07-2026 upto 3:00 PM

NIQ for the subject work has been prepared with the following:

1	Amount of NIQ (INR)	:	15,66,078.00
2	Earnest money (INR)	:	31,322.00
3	Completion time	:	21 days
4	Last date of submission (online)	:	08-07-2026 upto 3 PM
5	Date of opening	:	09-07-2026 AM after 3 PM
7	Schedule applicable	:	Market Rate, DSR (E&M)
8	Material stipulated	:	As per Schedule of Work
9	Chargeable heads	:	35.01.01
10	Work code no.	:	2021/006/1134
11	NIQ No.	:	36/NIQ/IITD/AC/2026-27

Certified that this NIQ contains 1 to 28 pages.

Junior Engineer [E]

Assistant Executive Engineer in-charge  
AC Division

NIQ amounting to Rs.15,66,078.00 is approved.

Institute Engineer

## CONTENTS

Sr. No.	Description	Page	
		From	To
1	Notice Inviting e-NIQ	04	05
2	Schedule of NIQ	06	06
3	Instruction for online bid submission	07	09
4	Information & instruction to bidders	10	12
5	List of Mandatory Documents to be uploaded	13	13
6	Commercial & Additional and Special conditions	14	19
7	Annexure – 1&2	20	21
8	Bid Submission Check List	22	22
9	Schedule of Quantity	23	28

# INDIAN INSTITUTE OF TECHNOLOGY DELHI

## AC DIVISION

### NOTICE INVITING E-QUOTATION

IITD/WORKS (SP- 5333)/2026

**Assistant Executive Engineer-in-charge, AC Division, Indian Institute of Technology Delhi, Hauz Khas, New Delhi – 110016, Ph. No. 011-2659 1746 on behalf of Board of Governors invites online Item Rate Quotation from **firms / contractors of repute** in two bid system as per details given below.**

1	Name of work	:	SITC of VRV/VRF AC unit in MS-315 (Physics Lab), IIT Delhi
2	NIQ No.	:	36/NIQ/IITD/AC/2026-27
3	Estimated Cost (Rs.)	:	15,66,078.00
4	Earnest Money Deposit (Rs.)	:	31,322.00 (No exemption allowed)
5	Period of completion	:	21 days
6	Last date & time of bid submission	:	Upto 3 PM of 08-07-2026
7	Security Deposit	:	5 percent of the quoted amount

The bid forms and other details may be downloaded from Central Public Procurement Portal (<http://eprocure.gov.in/eprocure/app>). Aspiring bidders who have not enrolled / registered in e-procurement should enrol / register themselves before participating through web site <http://eprocure.gov.in/eprocure/app>. The portal enrolment is free of cost. Bidders are advised to go through instructions provided at “Instructions for online bid submission.”

Bidders can access quotation / tender documents on the website (for searching in the NIC site), kindly go to quotation search option and type ‘IIT’. Thereafter, click on “GO” button to view all IIT quotations. Select the appropriate quotation / tender and fill them with all relevant information and submit the completed Quotation / Tender document online on the website <http://eprocure.gov.in/eprocure/app> as per the schedule given in the next page.

**No manual bids will be accepted. All bids (both Technical & Financial) should be submitted in the e-procurement portal.**

**Assistant Executive Engineer-in-charge, AC Division  
For & on behalf of BOG, IIT Delhi**

Ch. Head	:	35.01.01	PLN	Work Code	:	2021/006/1134
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Copy to: -

1. D.R. (Works Accounts)
2. A.R. (A/C)
3. A.R. (Store Purchase Section)
4. Notice Board
5. Website Administrator, IIT Delhi
6. Office copy

## SCHEDULE

1	<b>Name of organisation</b>	:	<b>Indian Institute of Technology Delhi</b>
2	Tender / Quotation type (open / limited / EOI / auction / single)	:	Open
3	Tender / Quotation category (services / goods / works)	:	Goods & Works
4	Type of Contract (work / supply / auction / service / buy / empanelment / sell)	:	Work & Supply
5	Form of contract (IITD – 7/8)	:	IITD – 8
6	Work Category (civil / electrical / fleet management / computer systems)	:	Electrical
7	Is multi-currency allowed?	:	No
8	Date of publishing / issue / start	:	01-07-2026 at 15.00 Hrs.
9	Document download start date	:	01-07-2026 at 15.00 Hrs.
10	Document download end date	:	08-07-2026 at 15.00 Hrs.
11	Date & time of pre-bid meeting	:	No pre-bid meeting be held
12	Venue of pre-bid meeting	:	Not applicable
13	Last date & time of uploading of bids	:	Upto 3 PM of 08-07-2026
14	Date & time of opening of Technical Bids	:	09-07-2026 upto 11:00 AM
15	Tender fee	:	Free of cost
16	Earnest Money Deposit (EMD) Rs.	:	<b>31,322.00 (No exemption allowed)</b>
17	Mode of payment of EMD	:	To be paid through online mode. IIT Delhi Bank details are as under: Name of the Bank A/C : IITD Revenue <b>Account</b> SBI A/C No. : 10773572622 Name of the Bank : State Bank of India, IIT Delhi, Hauz Khas, New Delhi-110016 IFSC Code : SBIN0001077 MICR Code : 110002156 Swift No. : SBININBB547 (This is mandatory that UTR Number is provided in the on-line quotation/bid. (Kindly refer to the UTR Column of the Declaration Sheet at Annexure-I))
17	Bid without EMD / Non-submission of original DD	:	To be considered as UNRESPONSIVE and bid shall summarily be rejected
18	No. of bids / covers (1 / 2 / 3 / 4)	:	2
19	Address for communication	:	<b>Assistant Executive Engineer-in-charge, AC Division, Works Department, IIT Delhi, Hauz Khas, New Delhi – 110016</b>
20	Contact No.	:	011 2659 1746
21	e-mail address for communication	:	<a href="mailto:a26984@admin.iitd.ac.in">a26984@admin.iitd.ac.in</a> ;

## **INSTRUCTIONS FOR ONLINE BID SUBMISSION**

As per the directives of Department of Expenditure, this quotation / tender document has been published on the Central Public Procurement Portal (URL: <http://eprocure.gov.in/eprocure/app>). The bidders are required to submit softcopies of their bids electronically on the CPP portal, using valid Digital Signature Certificates (DSC). 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 <http://eprocure.gov.in/eprocure/app>

### **REGISTRATION**

1. Bidders are required to enrol on the e-procurement module of the Central Public Procurement portal (URL: <http://eprocure.gov.in/eprocure/app>) by clicking on the link, "click here to enrol". Enrolment on the CPP portal is free of charge.
2. As part of the enrolment process, the bidders will be required to choose a unique user name and assign a password for their accounts.
3. Bidders are advised to register their valid e-mail address and mobile number as part of the registration process. These would be used for any communication from the CPP Portal.
4. Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (class 2 or class 3 certificates with signing key usage) issued by any certifying authority recognised by CCA India (e.g. Sify / TCS / nCode / eMudhra etc.) with their profile.
5. Only one valid DSC should be registered by a bidder. Please note that bidders are responsible to ensure that they do not lend their DSCs to others which may lead to misuse.
6. Bidder then logs into the site through the secured log-in by entering their user ID / password and the password of the DSC / eToken.

### **SEARCHING FOR TENDER DOCUMENTS**

1. There are various search options built in the CPP portal to facilitate bidders to search active bids by several parameters. These parameters could include tender ID, organisation name, location, date, value, etc. There is also an option of advanced search for bids, wherein the bidders may combine a number of search parameters such as organisation name, form of contract, location, date, other keywords etc. to search for a tender published on the CPP portal.
2. Once the bidders have selected the bids they are interested in, they may download the required documents / tender schedules. The bids can be moved to the respective "My Bids" folder. This would enable the CPP portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.

3. The bidder should make a note of the unique Tender ID assigned to each other, in case they want to obtain any clarification / help from the Helpdesk.

### PREPARATION OF BIDS

1. Bidder should take into account any corrigendum published on the tender document before submitting their bids.
2. Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bids. Please note the number of covers in which the bid documents have to be submitted. Any deviations from these may lead to rejection of the bids.
3. 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 formats. Bid documents may be scanned with 100 dpi with black & white option.
4. 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's certificates, etc.) has been provided to the bidders. Bidders can use "My Space" 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

1. Bidder should log into the site well in advance for bid submission so that he / she 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.
2. The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
3. Bidder has to select the payment option as "on-line" to pay the tender fee / EMD as applicable and enter details of the instrument. Whenever, EMD / Tender fees is sought, bidders need to pay the tender fee and EMD separately on-line through RTGS (Refer to Schedule, Page no. 3)
4. A standard BOQ Format has been provided with the tender document to be filled by all the bidders. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. 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 online, without changing the filename. If the BOQ file is found to be modified by the bidder, the bid will be rejected.

OR

In some cases financial bids can be submitted in PDF format as well (in lieu of BOQ).

5. 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.
6. All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorised 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.
7. The uploaded tender documents become readable only after the tender opening by the authorised bid openers.
8. Upon the successful and timely submission of bids, the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
9. Kindly add scanned PDF of all relevant documents in a single PDF file of compliance sheet.

#### **ASSISTANCE TO BIDDERS**

1. Any queries relating to 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.
2. Any queries relating to the process of online bid submission or queries relating to CPP portal in general may be directed to the 24 x 7 CPP Portal Help Desk. The contact number of the helpdesk is 18002337315.

#### **GENERAL INSTRUCTIONS TO THE BIDDERS**

1. The bids will be received online through portal <https://eprocure.gov.in/eprocure/app>. In the technical bids, the bidders are required to upload all the documents in PDF format.
2. Possession of a valid class II / III Digital Signature Certificate (DSC) in the form of smart card / e-token in the company's name is a prerequisite for registration and participating in the bid submission activities through <https://eprocure.gov.in/eprocure/app>. Digital Signature Certificates can be obtained from the authorised certifying agencies, details of which are available in the website <https://eprocure.gov.in/eprocure/app> under the link "Information about DSC".
3. Bidders are advised to follow the instructions provided in the "Instructions to the bidder" for the e-submission of the bids online through the Central Public Procurement Portal for e-procurement at <https://eprocure.gov.in/eprocure/app>.

## INFORMATION & INSTRUCTION TO BIDDERS FOR E-TENDERING

Assistant Executive Engineer-in-charge, AC Division, Indian Institute of Technology Delhi, Hauz Khas, New Delhi – 110016, Ph. No. 011-2659 1746 on behalf of Board of Governors invites online **Item Rate Tender** from firms / contractors of repute in two bid system as per details given below:

Sr. No.	NIQ No.	Name of Work & Location	Estimated cost put to bid (Rs.)	Earnest money (Rs.)	Period of completion	Last date & time of submission of bid	Time & date of opening of Technical Bid	Time & date of opening of Financial Bid
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1	36/NIQ/IITD/AC/2026-27	SITC of VRV/VRF AC unit in MS-315 (Physics Lab), IIT Delhi	15,66,078.00	31,322.00 (No exemption allowed)	21 days	Upto 3 PM of 08-07-2026	09-07-2026 upto 3:00 PM	To be decided after assessing Technical Bids

1. **Earnest money (EMD)** shall have to be deposited / submitted as stipulated in the schedule. EMD of the successful bidder shall be retained till completion of the work and be refunded thereafter recording completion certificate.
2. Contractors who fulfil the following requirements shall be eligible to apply. Joint ventures are not accepted.
  - a. Should have satisfactorily completed the works as mentioned below during the last Seven years ending **last day of the month previous to one in which bids are invited.**
    - i. **Three** similar works each costing not less than **Rs.6,26,000.00**, or **two** similar works each costing not less than **Rs.9,40,000.00**, or one similar work costing not less than **Rs.12,53,000.00**.
3. The value of executed work shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum; calculated from the date of completion to previous day of last day of submission of bids.

4. **Similar work means Supply, Installation, Testing & Commissioning of Air Conditioning Units in buildings.**
5. **Work means** work done with some Central Government Department / State Government Department / Central Autonomous Body / *State Autonomous Body* / Central Public Sector Undertaking / *State Public Sector Undertaking* / *City Development Authority* / *Municipal Corporation of City formed under any Act by Central / State Government and published in Central / State Gazette* / any Public Authority / reputed Pvt Organisation.
6. Completion certificates are required to be got issued by an officer not below the rank of Executive Engineer / managerial level of similar works completed by the Firm. The work experience certificates submitted by the bidders shall clearly indicate that:
  - a. The similar work executed shall be **as per '5' above**
  - b. The completed cost of the work
  - c. Actual date of completion of the work
7. **The intending bidder must read the terms and conditions carefully** which will be the part of the Order He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
8. Information and Instructions for bidders posted on website shall form part of bid document.
9. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the order to be complied with and other necessary documents can be seen and downloaded from website e-procure.gov.in free of cost.
10. But the bid can only be submitted after submission/uploading of EMD as prescribed in the schedule.
11. Copy of all mandatory documents as desired in the NIT shall be scanned and up-loaded to the e-Tendering website within the period of bid submission. During scrutiny of technical bids, if required, bidders may be asked to submit original documents for cross checking. However, certified / original copy of all the scanned and up-loaded documents shall have to be submitted by the lowest bidder only within a week physically in the office of the tender inviting authority.
12. Online bid documents submitted by intending bidders shall be opened only of those bidders, who has submitted prescribed EMD, and other documents scanned and uploaded are found in order.
13. Those contractors not registered on the website mentioned above, are required to get registered beforehand. Bidders should refer "Instruction for Online Bid Submission" given earlier for further assistance.
14. When bids are invited in two / three stages systems and if it is desired to submit revised financial bid it shall be mandatory to submit revised financial bid. If not submitted, then the bid submitted earlier shall become invalid.
15. The department reserves the right to reject any prospective application without assigning any reason and to restrict the list of qualified contractors to any number deemed suitable by it, if too many bids are received satisfying the laid down criterion.
16. Contractors must ensure to quote rate of each item.

- 17. The bid submitted shall become invalid if:**
- The bidder is found ineligible.
  - The bidder does not upload scanned copies of all the documents stipulated in the bid document.
  - If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest bidder in the office of bid opening / accepting authority.
  - If a bidder quotes nil rates against each item in item rate tender or does not quote any percentage above/below on the total amount of the tender or any section / sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest bidder.
  - EMD not deposited as specified.
- 18. Equipment to be supplied shall satisfy Class-1 criteria. 'Class – 1 Local Supplier' means a supplier or service provider, whose goods, services or works offered for procurement has local content equal to or more than 50% as defined under Order No. P-45021/2/2017-PP(BE-II) dated 04-06-2020 issued by Department for Promotion of Industry and Internal Trade (Public Procurement Section), Ministry of Commerce and Industry, Govt of India.**
- 'Local Content' means the amount of value added in India which shall unless and otherwise prescribed by the nodal ministry, be the total value of the item procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all domestic duties) as a proportion of the total value, in percent.
  - For the purpose of verification of 'Local Content', the Class-1 Local Supplier / Service Provider at the time of bidding, tender or solicitation shall be required to indicate percentage of local content and provide self-certification that the items offered meet the local content requirement for Class – 1 Local Supplier. They shall also give details of the location(s) at which the local value addition is made.
  - In cases of procurement for a value in excess of 10 crore, the Class – 1 Local Supplier shall be required to provide a certificate from the statutory auditor or cost auditor of the company (in case of the companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.
  - Nodal Ministries may constitute committees with internal and external experts for independent verification of self-certifications and auditor's / accountant's certificates on random basis and in the case of complaints.
  - False declarations will be in breach of Code of Integrity under rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for upto two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.

**List of MANDATORY DOCUMENTS to be scanned and uploaded  
within the period of bid submission:**

Sr. No.	:	Details of Document
1	:	Annexure – 1 & 2 duly filled in and got signed by the bidder
2	:	Proof of online EMD deposit
3	:	Certificate of work experience as desired (vide clauses 3 to 7 above)
4	:	Certificate of GST Registration
5		Bid specific OEM Authorisation Certificate mentioning name of work and BID No.
6		TDS certificate if the work experience is from Pvt Organisation (non-Public)
7	:	EPFO & ESIC registration Proof with upto date paid challan (challan shall be not older than two months from the month on which the tender is invited)
8	:	Valid Electrical Licence in the name of the contractor. <i>if the bidder does not possess electrical licence in his own name, he shall have to submit an undertaking on their letter head and the bidder shall scan and upload following undertaking along with other bid documents.</i>  a. <i>“I/We undertake that, if I/we do not possess in my/our name a valid electrical license as required, I/we shall associate an agency having such a licence for execution of work which requires such a licence”.</i>
9	:	Any other document as specified

**Note:**

- a. Hard copies of documents are to be submitted as per clause 9.1 of IITD-6
- b. Original copies of documents are to be submitted for verifications as and when demanded by the tender inviting authority
- c. Bidders are advised to keep the Original Affidavit and other documents ‘as it is’ in safe custody till finalisation of bid

**Assistant Executive Engineer in-charge, AC Division  
For & on Behalf of BOG, IIT Delhi**

## **COMMERCIAL AND ADDITIONAL CONDITIONS**

### **1. GENERAL**

- 1.1. **INTENDED BIDDERS SHOULD NOTE THAT THE WORK IS VERY URGENT NATURE AND SHALL BE GOT COMPLETED WITHIN THE SCHEDULED TIME. BIDDERS SHOULD PARTICIPATE ONLY WHEN THEY ARE CONFIDENT THAT MACHINES CAN BE DELIVERED AND INSTALLED WITHIN THE STIPULATED TIME.** This specification covers supply and delivery of materials at site, all preparatory work assembly and installation, commissioning and putting into operation of VRF/VRV type AC units & final testing & commissioning at site.
- 1.2. Location: **The equipment will be installed in MS-315 Lab, IIT Delhi**
- 1.3. The work shall be executed as per CPWD General Specifications for Electrical Works Part-I (Int.) 2013, Part-II (Ext.) 1994, HVAC Work 2017, as amended upto date, relevant I.E. Rules, BIS/IEC and as per directions of Engineer-in-Charge. These additional specifications/conditions are to be read in conjunction with above and in case of variations; specifications given in these additional conditions shall apply. However, nothing extra shall be paid on account of these additional specification and conditions, as the same are to be read along with schedule of quantities for the work.
- 1.4. The bidder should in his own interest visit the site and get familiarized with the site conditions before tendering.
- 1.5. No T&P shall be issued by the Department and nothing extra shall be paid on account of this.

### **2. COMMERCIAL CONDITIONS:**

- 2.1. **Type of contract:** The work to be awarded by this tender shall be treated as indivisible works contract.
- 2.2. **Submission and opening of Bids:**
- 2.2.1. The tender is in two parts:
- 2.2.1.1. Part-I -Technical cum Un-priced commercial Bid
  - 2.2.1.2. Part-II-Price Bid
- 2.3. The bid shall be submitted online, duly completed as per NIQ conditions within period of bid submission.
- 2.4. The bidders are advised not to deviate from the technical specifications / item, commercial terms and conditions of NIQ like terms of payment, guarantee, arbitration clause, escalation etc.
- 2.5. Technical cum un-priced commercial bid only shall be opened on the due date and time in the presence of bidders or their authorized representative who wish to remain present.
- 2.6. Scrutiny/evaluation of the technical-cum-commercial bid shall be done by the department. In case, it is found that the technical-cum-commercial bid of a bidder is not in line with NIQ

specifications/requirements and/or contains too many deviations, the department reserves the right to reject the technical bid of such firms(s) without making any reference to the bidder(s).

- 2.7. Necessary clarifications required by the department shall have to be furnished by the bidder within the time given by the department for the same. The bidder will have to depute his representative to discuss with the officer(s) of the department as and when so desired. In case, in the opinion of the department a bidder is taking undue long time in furnishing the desired clarifications, his bid will be rejected without making any reference.
- 2.8. After obtaining clarification from all the bids, the department will intimate the bids whose technical cum commercial bids are acceptable.
- 2.9. The price bids of only those bidders shall be opened whose technical bids are found to be technically acceptable. The time and date of opening of price bid shall be fixed after the technical cum unpriced commercial bid is accepted and intimated to them by post/Fax/e-mail.
- 2.10. The department reserves the right to reject any or all the price bids and call for fresh prices/bids as the case may be without assigning any reason.

### 3. TERMS OF PAYMENTS

- 3.1. Payment shall be released after successful completion (Supply, Installation, Testing and satisfactory commissioning) of the work. No RA bill shall be preferred as the work is very urgent and shall be completed in a compressed schedule of time. Bidder should note that necessary documents (PAN card, cancelled cheque, GST Reg. proof and RTGS mandate form as per prescribed proforma of IIT Delhi) be submitted as soon as the work is awarded to them. Separate Contractor's Code shall be generated in IIT Delhi if the bidder is a new contractor to IIT Delhi ('Code' is perpetual in nature). Payment shall be processed after submission of Invoice and necessary documents / certificates (as mentioned in the NIT). There is a prevailing practice of pre-audit (for total tendered amount more than 6 lakhs) at IIT Delhi before releasing final payment. Bidder shall have to comply all necessary documents as outlined in the Contract as to be desired by the Auditor and or by the accountant. It may take one to two months in the whole process (from submission / acceptance of bill in CMB / MB by the contractor upto processing by Accounts section) to release payment subject to quick compliance of all submittals by the contractor. Applicable Taxes shall be got deducted from the bill as per prevailing orders of the Government. 'GST part of the bill' shall be released after submission of proof of payment of GST, i.e., B2B challan, etc. as may be, by the contractor.
- 3.2. Income tax, GST, labour cess & other statutory deduction etc. shall be made at source as per the prevalent laws. The deduction of Security Deposit, Income Tax, etc., shall be done after calculation for the above due payment as per clause 3.1 above and net payment shall reduce accordingly.

### 4. AWARD OF WORK

- 4.1. Work shall be awarded to the successful bidder only after concurrence of the **Auditor of the Internal Audit Section** of the IIT Delhi as per extant Rules of the Institute.

**5. SECURITY DEPOSIT**

6. Security Deposit shall be deducted from each running bill to the extent of 5% of the tendered amount. **The security deposit shall be released after Defect Liability Period is Over.**

**7. RATES**

- 7.1. The work shall be treated as on works contract basis and the rates tendered shall be for complete items of work (except the materials, if any, stipulated for supply by the department) inclusive of all taxes, GST (including works contract tax, if any), duties, and levies etc. and all charges for items contingent to the work, such as, packing, forwarding, insurance, freight and delivery at site for the materials to the supplied by the contractor, watch and ward of all materials (including those, if any, supplied by the department), post installation services till defect liability period etc. for the work at site etc.

**8. COMPLETENESS OF BID**

- 8.1. All sundry equipments, fitting, unit assemblies, accessories, hardware items, foundation bolts, termination lugs for electrical connections and all other items which are useful and necessary for efficient assembly and installation of equipment and components of the work shall be deemed to have been included in the tender irrespective of the fact whether such items are specially mentioned in the tender documents or not.

**9. STORAGE AND CUSTODY OF MATERIAL**

- 9.1. The agency has to make his own arrangement for storage. No separate storage accommodation shall be provided by the department Watch and ward of the storage and their safe custody shall be responsibility till the final taking over of the installation by the department.

**10. CARE OF THE BUILDING**

- 10.1. Care shall be taken by the contractor while handling and installing the various equipment and components of the work to avoid damage to the building. He shall be responsible for repairing all damages and restoring the same to their original finish at his cost. He shall also remove at his cost all unwanted and waste material arising out of the installation from the site of work.

**11. COMPLETION PERIOD**

- 11.1. The completion period indicated in the tender documents is for the entire work of planning, designing, approval of drawings etc., arrangement of materials & equipments, delivery at site including transportation, installation, testing, commissioning and handing over of the entire system to the satisfaction of the Engineer-in-charge.

**12. GUARANTEE**

- 12.1. The contractor shall guarantee all installation as per specifications both for components and for system as a whole. All equipments shall be guaranteed for the date of commissioning against unsatisfactory performance and / or breakdown due to defective design, workmanship or material upto one year. The equipment or component, or any part thereof, so found defective during guarantee period shall be forthwith replaced free of cost to the

satisfaction of the Engineer-in-Charge. In case it is felt by the department that undue delay is being caused by the contractor in doing this, the same will be got done by the department at the risk and cost of the contractor. **Guarantee / Defect Liability Period of the entire AC system shall be upto 01 year after date of commissioning.**

12.2. The bidder shall guarantee among other things, the following:

12.2.1. Quality, strength and performance of the material used as per manufacturer's standards.

12.2.2. Safe mechanical and electrical stress on all part under all specified conditions of operation.

### **13. POWER SUPPLY**

13.1. Power supply shall be made available by the department at one point near the location of installation free of cost, if required. Further, the arrangement for tapping power supply from this point shall be made by the contractor.

### **14. EXTENT OF WORK**

14.1. The work shall comprise of entire labour including supervision and all material necessary to make a complete installation and such tests and adjustment and commissioning as may be required by the department. The term complete installation shall not only mean major items of the plant and equipment covered by the specification but all incidental sundry components necessary for complete execution and satisfactory performance of installation with all layout charts whether or not those have been mentioned in details in the tender documents in connection with this contract as this is a turnkey job.

14.2. In addition to supply, installation, testing and commissioning of split/window type AC system including wall mounted indoor units, following works shall be deemed to be included with the scope of work to be executed by the bidder-

14.2.1. Minor building works necessary for installation of equipment, foundation making of opening in walls or in floors and restoring them to their original condition / finish and necessary grouting etc. as required.

### **15. VALIDITY**

15.1. Bids shall be valid for acceptance for a period 45 days of days from the last date of submission of bid.

### **16. COMPLIANCE WITH REGULATIONS AND INDIAN STANDARDS**

16.1. All works shall be carried out in accordance with relevant regulation both statutory and those specified by the Indian Standards related to the works covered by this specification in particular, the equipment and installation will comply with the following:

16.1.1. Factories Act

16.1.2. Indian Electricity Rules

16.1.3. B.I.S. & other standards as applicable

16.1.4. Workmen's compensation Act

16.1.5. Statutory norms prescribed by local bodies like fire department, CEA, Power Supply Co. etc.

**17. INDEMNITY**

- 17.1. The successful bidder shall at all times indemnify the department, consequent on this works contract. The successful bidder shall be liable, in accordance with the Indian Law and Regulations for any accident occurring due to any cause and the contractor shall be responsible for any accident or damage incurred or claims arising there from during the period of erection, construction and putting into operation the equipments and ancillary equipment under the supervision of the successful bidder in so far as the latter is responsible. The successful bidder shall also provide all insurance including third party insurance as may be necessary to cover the risk. No extra payment would be made to the successful bidder on account of the above.

**18. ERECTION TOOLS**

- 18.1. No tools and tackles either for unloading or for shifting the equipments for erection purposes would be made available by the department. The successful tender shall make his arrangement for all these facilities.

**19. COOPERATION WITH OTHER AGENCIES AND OCCUPANTS OF THE BUILDING**

- 19.1. The successful bidder shall co-ordinate with other working contractors, if any and other occupants of different offices / Labs, etc., and exchange freely all technical information so as to make the execution of this work / contract smooth. No remuneration should be claimed from the department for such technical cooperation. If any unreasonable hindrance is caused to other agencies and any completed portion of the work has to be dismantled and re-done for want of cooperation and coordination by the bidder during the course of work, such expenditure incurred will be recovered from the successful bidder if the restoration work to the original condition or specification of the dismantled portion of work was not undertaken by the bidder himself.

**20. MOBILIZATION ADVANCE**

- 20.1. No mobilization advance shall be paid for this work.

**21. INTERPRETING SPECIFICATION**

- 21.1. In interpreting the specification, the following order of decreasing importance shall be followed in case of contradictions:

21.1.1. Schedule of quantities

21.1.2. Technical Specification

21.1.3. Drawing (if any)

21.1.4. General Specification for Electrical Works of CPWD (relevant Parts)

21.1.5. Relevant BIS or other international code in case BIS code is not available.

**22. POLICY OF THE INSTITUTE**

- 22.1. Institute has a policy against **sexual harassment** and is committed to providing an environment free from **sexual harassment of women** at the workplace. Contractor shall

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have to abide by the policy of the Institute with due diligence. Any violation on the part of the contractor shall be dealt with the extant rules of the Institute.

### 23. QUALITY OF MATERIALS

- 23.1. All materials and equipment supplied by the contractor shall be new. They shall be of such design, size and materials as to satisfactorily function under the rated conditions of operation and to withstand the environmental conditions at site. **None of the material/ items/ equipment etc supplied shall be more than six months old from date of supply at site.** Copy of GST Gate Pass/ Invoice/ Shipment / Custom Clearance certificate/ details (in case of imported equipment) shall be submitted to prove the date of manufacture & genuineness of the equipment/ machines supplied.

**<< Organization Letter Head >>  
DECLARATION**

I / We, \_\_\_\_\_ hereby declare that all the information and data furnished by our organization with regard to this tender specification are true and complete to the best of our knowledge. I / we have gone through the specification, conditions and stipulations in details and agree to comply with the requirements and intent of specification.

1	Name & Address of the bidder	:	
2	Phone	:	
3	E-mail	:	
4	Contact person name	:	
5	Mobile number	:	
6	GSTIN number	:	
7	PAN number	:	
8	UTR no. for EMD	:	
9	Date of deposit / submit of EMD	:	
	<b>BANK DETAILS of the Bidder</b>		
10	Bank name	:	
11	Branch address	:	
12	Branch telephone no.	:	
13	MICR Code of the bank	:	
14	IFSC code	:	
15	Bank Account no.	:	
16	Type of account	:	
17	Pl attach one cancelled cheque	:	

We further declare that our organization has not been blacklisted / delisted or put to any holiday by any Institutional agency / Govt. Department / Public Sector Undertaking in the last three years.

(Signature & name of the bidder)  
Seal of the bidder

**Annexure - 2****DETAILS OF ELIGIBLE SIMILAR NATURE WORKS COMPLETED DURING THE LAST SEVEN YEARS ENDING PREVIOUS DAY OF LAST DAY OF SUBMISSION OF BIDS**

Sr. no.	Name of work / project and location	Owner or sponsoring organisation	Cost of work done (INR)	Date of commencement as per contract	Stipulated date of completion	Actual date of completion	Name and address / telephone number of officer to whom reference may be made
1	2	3	4	5	6	7	8
1							
2							
3							

(Signature & name of the bidder)  
Seal of the bidder

## BID SUBMISSION CHECK LIST

### ONLINE BID SUBMISSION:

The bid (complete in all respect) must be uploaded online in **two** Envelops as explained below:-

<b>Envelope – 1</b> (Following documents to be provided as single PDF file)			
Sl. No.	Documents	Content	File Types
1	<b>Technical Bid</b>	Annexure - 1	.PDF
2		EMD submission proof	.PDF
3		Certificate , of work experience as desired	.PDF
4		Certificate of GST Registration	.PDF
5		Bid Specific Authorisation of OEM	.PDF
6		TDS Proof (if work completion certificate is from Pvt Organisation)	.PDF
7		Annexure – 2 duly filled and signed	.PDF
8		EPFO & ESIC registration Proof with upto date paid challan	.PDF
9		Valid Electrical Licence / Undertaking	.PDF
10		Any other document as specified in the NIT	.PDF
<b>Envelope – 2</b>			
Sl. No.	TYPES	Content	
1.	<b>Financial Bid</b>	Price bid should be submitted in BOQ format.	.EXL

## SCHEDULE OF QUANTITY

Name of work: SITC of VRV/VRF AC unit in MS-315 (Physics Lab), IIT Delhi

Sr. No.	Description of items	Qty	Rate	Unit	Amount
1	Supply, Installation, Testing & Commissioning of Modular type Variable Refrigerant Flow (VRF)/Variable Refrigerant Volume (VRV) air cooled Outdoor (Condenser) units suitable for cooling having 100% hermetically sealed inverter type twin Rotary/Scroll Compressor(s), minimum two compressors (with individual separate PCB) for above 14 HP modules, microprocessor based Controller, top discharge type condensing unit(s), with R-410-A Refrigerant or equivalent, vibration Isolators with suitable foundation etc. complete as required. To have better efficiency condenser fan shall be capable to operate at different speed with respect to load. The unit shall deliver the rated capacity and in conformation as per IS 18728:2024 and CPWD Specifications and work even at 50°C ambient temperature without tripping. The system shall be able to deliver 100% of the rated capacity upto 39 Degree Celsius. The unit shall be suitable to work on 400V +/- 10%, 3 Phase, 50Hz ac power supply and BMS compatible. The unit shall be filled with first charge of the refrigerant and ready for use as required. The condenser should be coated with a hydrophilic film to prevent water accumulation on the surface of the heat exchanger, enhance water dispersion, and reduce the risk of degradation, thereby improving overall performance and durability. The Indian Seasonal Energy Efficiency Ratio (ISEER) of the unit shall be as not less than 5.5. Test certificate of OEM for unit / particular model shall be produced. (Acceptable make: Any Reputed make)	22	*****	HP	

2	Supply, Installation, Testing and Commissioning of following minimum capacity <b>4 way Cassette Type Indoor</b> (evaporator) ceiling mounted unit equipped with synthetic washable media pre-filter, fan section with low noise fan / dynamically balanced blower, multi-speed motor, coil section with DX Copper coil, electronic expansion valve, outer cabinet, drain pump, grill, necessary supports, vibration Isolation, Corded remote control with (batteries if required) etc., suitable for operation on single phase 230 V $\pm$ 10%, 50Hz ac supply, complete, as required. The Indoor units must shut down upon receiving a signal from the BMS System/Fire Signals. The system shall be capable to adjust air flow as per room requirement in auto mode. The cooling capacity of indoor unit will be at air inlet conditions of 27 Degree C DB and 19 Degree C WB temperature. (Make will be same as of Outdoor)				
2.01	1.2 TR	02	*****	Each	
2.02	2.0 TR	02	*****	Each	
2.03	2.4 TR	04	*****	Each	
3	Supply, Installation, Testing and Commissioning of Y/T/Multi Joints. Joints shall be of same Original Equipment Manufacturer (OEM) make as of ODUs and IDUs.				
3.01	Indoor Units	09	*****	Each	
3.02	Outdoor Multi Joint	05	*****	Each	
4	Supply, Installation, testing and commissioning including vaccumiazation and Nitrogen testing of following nominal sizes of soft/hard drawn copper refrigerant piping for VRV/VRF system, complete with fittings, with suitable adjustable ring type hanger supports, jointing/brazing including accessories, insulated with XPLE Class-O tubular insulation/with Class-O closed cell elastomeric nitrile rubber tubular sleeves sections of not less than 19 mm thick insulation as given below for Suction and				

	Liquid lines, all accessories as per specifications etc. as required. (Acceptable make: Any Reputed make)				
4.01	6.4 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm	150	*****	Metre	
4.02	9.5 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm	200	*****	Metre	
4.03	12.7 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm	200	*****	Metre	
4.04	15.86 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm	100	*****	Metre	
4.05	19 mm dia (OD) (Hard drawn) with tube thickness 1.2 mm	50	*****	Metre	
4.06	22.2 mm dia (OD) (Hard drawn) with tube thickness 1.2 mm	50	*****	Metre	
4.07	28.58 mm dia (OD) (Hard drawn) with tube thickness 1.2 mm	50	*****	Metre	
5	GI TRAY SUPPORT: Supplying and installing following size of perforated Hot Dipped Galvanised Iron Cable tray (galvanisation thickness not less than 50 microns) with perforation not more than 17.5% in convenient sections, joined with connectors, suspended / supported from the ceiling / wall with GI suspenders including GI bolts and nuts, GI C-Channels, etc. including bends, reducers, Tees, cross-members as required, GI protective sheet covering (for outdoor portion) outside the room etc. as required. (Acceptable make: Any Reputed make)				
5.01	300 mm width x 50 mm depth x 1.6 mm thickness	50	*****	Metre	
6	DRAIN PIPE: Supplying and laying of ISI marked CPVC pipe of 32 mm dia for draining of sweated water from AC evaporator (indoor) unit including providing tee, joints, elbows, supports, etc. insulated with XLPE class - O tubular insulation / with Class-O closed cell elastomeric nitrile rubber tubular sleeves sections of not less than 9 mm thick etc. complete as required.	100	*****	Metre	

7	DRAIN PIPE: Supplying and laying of ISI marked flexible braided PVC pipe of 25 mm dia for draining of sweated water from AC evaporator (indoor) unit including providing tee, joints, elbows, supports, etc. wherever required etc. complete as required. (Acceptable make: Any Reputed make)	100	*****	Metre	
8	Supplying and fixing DP sheet steel enclosure on surface / recess alongwith 6 A, 240 V "C" curve DP MCB complete with connections, testing and commissioning etc. as required. (Acceptable make: Any Reputed make)	08	*****	Each	
9	Supplying and laying of ISI marked FRLS industrial multistranded copper cable of following size and type and of 1.1 kv grade conforming to IS694:2010 including making connection etc. for communication / indoor power supply between indoor and outdoor unit and other units, etc. as required. (Acceptable make: Any Reputed make)				
9.01	2 core x 1.5 sqmm screened cable along with hard PVC conduit not less than 20 mm alongwith bends, tees, etc. as required.	200	*****	Metre	
9.02	3 core x 2.5 sqmm (unarmoured)	300	*****	Metre	
10	Supplying and laying of ISI marked PVC insulated sheathed XLPE armoured aluminium cable of following size and type and of 1.1 kv grade confirming to IS : 7098 (part 1) on surface / recess, etc. as required. (Acceptable make: Any Reputed make)				
10.01	4 core x 16 sqmm	100	*****	Metre	
11	Supplying and making end termination with brass compression gland and aluminium lugs for following size of pvc insulated and pvc sheathed / XLPE copper conductor cable of 1.1 kV grade as required.				
11.01	4 core x 16 sqmm (28 mm)	04	*****	Each	

12	Supplying and laying of ISI marked FR 10 sqmm PVC insulated flexible single core multi strand copper conductor cable of 1.1 kV grade for drawing 3 phase & 1 N power from distribution board to MCCB including providing flexible pvc pipe / conduit, end termination with tinned copper lugs, proper connections etc as directed by the Engineer in charge. (Acceptable make: Any Reputed make)	10	*****	Metre	
13	Supplying and fixing of following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface / recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc as required. (but without MCB/RCCB/Isolator) (Acceptable make: Any Reputed make)				
13.01	12 Way, Double door	01	*****	Each	
14	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. (Acceptable make: Any Reputed make)				
14.01	Single Pole	12	*****	Each	
14.02	Double pole (as incomer to DB)	01	*****	Each	
15	Supplying and fixing cable end box (loose wire box) suitable for 8 / 12 way double door SPN MCB DB on surface / recess complete with testing and commissioning etc. as required. (Acceptable make: Any Reputed make)	01	*****	Each	
16	Providing and fixing 8 SWG dia GI wire on surface or in recess for loop earthing along with existing surface/ recessed conduit/ submain wiring/ cable as required. (Acceptable make: Any Reputed make)	200	*****	Metre	

17	Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release conforming to IS/IEC 60947-2 as per following and terminal spreaders in sheet steel enclosure including drilling holes, duly factory painted as required, making connections, etc. as required. (Reference size and category of the sheet steel enclosure shall be: Cat No. of L&K CM909960000) Size of enclosure shall be similar to the referred enclosure size. For main power connection.				
17.01	Thermal Release Range 32 amp, 25kA, FPMCCB	01	*****	Each	
18	Supplying and fixing of weather proof non-metallic 4P enclosure on surface / recess with 16/25/32 amp, 415 V, "C" curve Four Pole MCB with IP-65 rating complete with connections, testing and commissioning as required. (Reference similar product: Legrand 4 Module Plexo Box for MCB, IP-65) - For outdoor units (Acceptable make: Any Reputed make, but shall be got approved from the Engineer-in-charge before supplying)	02	*****	Each	
19	Fabricating, Providing and fixing M.S. iron frame fabricated with M.S. C-channel of size 100 mm x 50 mm x 6 mm (thick) for resting the condenser unit on the roof / floor of the building duly supported from the bottom as required including painting and grouting the framework with cement concrete etc. complete as required. (Acceptable make: Any Reputed make)	30	*****	Metre	
	<b>Total</b>				

\*\*\*\*\* Bidder should not quote rate here

Junior Engineer [E]

AEE-in-charge AC Division