

ENGINEERING DEPARTMENT
UNIVERSITY OF DELHI
DELHI-110007

REF.NO. CE/

/DU/EM- (2026-27) Dated-

NOTICE INVITING e-TENDER

1. Online bids are invited from the OEM/authorized agencies performing in Govt./ Semi Govt. organizations in appropriate Category and class for two bid systems for: **Replacement/Modification of existing VRV/VRF and Cassette Air Conditioning System in the USIC and Nuclear Science Department , University of Delhi** Manual /Offline bids will not be accepted.
2. **Tender documents may be downloaded from Delhi University website www.du.ac.in (for reference only) and CPPP site <https://eprocure.gov.in/eprocure/app> as per the schedule as given in as under.**

Publishing Date	30-04-2026 (06.00 P.M)
Bid Document Download / Sale Start Date	30-04-2026 (06.00 P.M)
Estimate Cost	Rs.1,31,76,250/-
EMD <u>(The EMD should be submitted in the office of Chief Engineer before the last date and time of submission Of bid over e-portal.</u>	Rs.2,63,525/-
Tender Fee	Rs.1000/-
Completion Time	1460 days
Bid Submission start date	30-04-2026 (06.00 P.M)
Bid Submission end date	20-05-2026 (01:00 PM)
Technical Bid Opening date	21-05-2026 (01:00 PM)
Financial Bid Opening Date	To be intimated later on website

3. **<https://eprocure.gov.in/eprocure/app>. Bidders/Contractors are advised to follow the instructions provided in the 'Instructions to the Contractors/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>'.**

Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.

4. Not more than one tender shall be submitted by one contactor or contractors having business relationship. Under no circumstance will father and his son(s) or other close relations who have business relationship with one another (i.e when one or more partner(s)/director(s) are common) be allowed to tender for the same contract as separate competitors. A breach of this condition will render the tenders of both parities liable to rejection.

5. Bidder who has downloaded the tender from the Central Public Procurement Portal (CPPP) website <https://eprocure.gov.in/eprocure/app> , <https://eprocure.gov.in/epublish/app> **shall not tamper/modify the tender form including downloaded price bid template in any manner.** In case if the same is found to be tempered/modified in any manner, tender will be completely rejected and EMD would be forfeited and Bidder is liable to be banned from doing business with University of Delhi.
6. Intending Bidders are advised to visit University of Delhi website www.du.ac.in and CPPP website <https://eprocure.gov.in/eprocure/app> at least 3 days prior to closing date of submission of tender for any corrigendum / addendum/ amendment.
7. **Mode of payment for tender /quotation fee:** - The bidder shall furnish the tender /quotation fee of **Rs.1000/-** in following manner:

STEPS TO BE FOLLOWED FOR ONLINE PAYMENT

(Tender Fee/EMD/Performance Guaranty etc. for Tenders of Engineering Department)

The Agencies are advised to follow the steps given below for online payment of Quotation/ Tender fee.

STEP 1 : Connect to “misconlinefee.du.ac.in”

STEP 2 : Click on “Miscellaneous fee”

MISCELLANEOUS FEE

Name (Name of Agency)

Email

Mobile

Fee

Item Count (Item count should always be 1)

Please provide details of the fee (exam type, paper no. etc)

STEP 3 : The fees selection for Rs 150 is “Tender Fee (upto 1 lakh Tender Value)(Chief Engineer,)” ;for Rs. 500 “Tender fee (more than 1 lakh upto 20 lakhs tender value)(Chief Engineer,)” and for Rs 1000 ”Tender fee (more than 20 lakhs Tender Value) (Chief Engineer,)”

STEP 4 : fill up the above details and Type tender ID in “**Please provide details of the fee (exam type, paper no. etc)**” column (eg.Tender ID 2021_DU_123456_1)

STEP 5 : click on “save”

STEP 6 : follow the instructions as per site

***Note*- The e-mail address and mobile number should be functional as after saving the above OTP will be received above mentioned details. In case the payment receipt is not displayed after payment, confirmation/ payment receipt can be received after through “Track your Payment” option.**

Deposit the prescribed Quotation/Tender fee etc. (as inscribed on the Tender /bid) online at the payment Gateway before the bid closure time & date. In case if are unable to get the receipt after payment, you may click on the option “track my payment”.

8. **BID Security / EMD:** The bidder should submitted the EMD of **Rs.2,63,525/-** to the office of The Chief Engineer, before the last date and time of submission of bid over e-portal . The bidder should obtain the receipt of the deposition of original EMD as per annexure “B” (the receipt copy is to be furnished and to be filed by the bidder before submission to the concerned office.)
- (a) FDR/TDR issued by any Nationalized/Scheduled Bank drawn in favour of “Registrar, University of Delhi, payable at Delhi,
9. Bids will be opened as per date/time as mentioned above. After online opening of Technical-Bid the financial bid of eligible bidders will be opened and the date and time will be mentioned on the e-portal.

(The copy of receipt of depositing of Original EMD from the office of the Chief Engineer, Engineering Department, University of Delhi, Delhi-110007 in the prescribed Performa attached as below)

Receipt of deposition of original EMD

Receipt no. / date

1. Name of work: Replacement/Modification of existing VRV/VRF and Cassette Air Conditioning System in the USIC and Nuclear Science Department , University of Delhi

2. Estimated cost: Rs.1,31,76,250/-

3. EMD Cost: Rs.2,63,525/-

4. Tender ID No.

5. Ref. No.

Last ate of submission of bid upto Hrs.

1. Name of contractor

2. Form of EMD

3. Amount of Earnest Money Deposit

4. Date of submission of EMD and time

Signature,
Name and Designation of EMD receiving officer along with office stamp
(to be filled by EMD receiving officer)

Content:

1. Instructions for online bid submission
2. Eligibility Requirements
3. Technical Bid
4. Price Bid Undertaking and schedule / BOQ
5. Scope of work
6. Technical Conditions
7. Annexure 'C'
8. Annexure 'D'
9. Conditions
10. Special Conditions
11. List of specific make

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

- 1) 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.
- 2) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- 3) 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.
- 4) Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / nCode / eMudhra etc.), with their profile.
- 5) 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.
- 6) 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

- 1) 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.
- 2) 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 / 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 tender, 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 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.
- 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/JPG formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
- 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 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

- 1) 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.
- 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 "offline" to pay the tender fee / EMD as applicable and enter details of the instrument.
- 4) 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.
- 5) 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.

- 6) 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.
- 7) 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 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 openers public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 8) The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 9) Upon the successful and timely submission of bids (ie after Clicking "Freeze Bid Submission" in the portal), 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.
- 10) 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

- 1) 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.
- 2) 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.

Eligibility Requirements:-

1. The Letter of OEM/ authorised agency for VRV/VRF and Cassette AC System specified in specific make working in Govt./Semi Govt. organization in appropriate category & class.
2. The bidder should not be black listed from any authorities
3. The bidder should have the following documents
 - i. PAN Card
 - ii. Latest Income Tax Return (Assessment Year 2024-25 or onwards)
 - iii. GST Registration
 - iv. GST Return of month **March 2026** onwards
 - v. ESIC Registration along with copy of latest ESI return of month . **March 2026** onwards
 - vi. EPFO Registration along with copy of latest EPF returns/ECR of month **March 2026** onwards
 - vii.Registration with Labour Department from Central Govt (Establishment Profile)
 - viii. Power of attorney / Authority letter in case person other than the bidder has signed the tender documents.
4. Technical bid and price bid undertaking form should be duly filled in.
5. The bidder/ contractor should submit the Tender Fee and upload the EMD Declaration as per the details given in the NIT. The scanned copy of acknowledgement /receipt of online payment should be uploaded along with other documents.
6. The bidder should upload the scanned copies of all the documents during online bid submission.
7. Copy of valid Electrical Contractor License (For electrical work)
8. The official of DU will visit the site of works carried out by agency before opening the financial bid
9. The bidder / contractor should upload the copy of three similar works each of value not less than 40% or two similar works each costing not less than 60% one similar work of value not less than 80% of this tender value i.e. on Rs.1,31,76,250/- executed in last 7 years ending provision day of last date of submission of bids
10. Signed and stamped copies of "**Annexure C**" along with supporting documents

Technical Bid Documents:

Scanned copies (true copies) of the following documents are to be uploaded / furnished by the bidder / contractor along with Technical Bid

1. The Letter of OEM/ authorised agency for VRV/VRF and Cassette AC System specified in specific make working in Govt./Semi Govt. organization in appropriate category & class.
2. Undertaking stating the bidder/ contractor has not been black listed from any authorities.
3. Copies of the following documents.
 - i. PAN Card
 - ii. Latest Income Tax Return / Clearance (Assessment Year 2024-25 or onwards)
 - iii. GST Registration
 - iv. GST Return of month **March 2026** onwards
 - v. ESIC Registration along with copy of latest EPF returns/ECR of month **March 2026** onwards
 - vi. EPFO Registration and latest return/ ECR of month **March 2026** onwards)
 - vii. Registration with Labour Department from Central Govt. (Establishment Profile)
 - viii. Power of attorney / Authority letter in case person other than the bidder has signed the tender documents.
 - ix. Price Bid Undertaking duly filled and signed.
 - x. Copy of valid Electrical Contractor License (For electrical work)
 - xi. Copy of acknowledgement/receipt of online for payment of tender fees.**
 - xii. The official of DU will visit the site of works carried out by agency before opening the financial bid
 - xiii. The bidder / contractor should upload the copy of three similar works each of value not less than 40% or two similar works each costing not less than 60% one similar work of value not less than 80% of this tender value i.e. on Rs.1,31,76,250/- executed in last 7 years ending provision day of last date of submission of bids
 - xiv. Signed and stamped copies of "**Annexure C**" along with supporting documents

N.B. The bidder / contractor who fail to comply with any of the above requirements / documents will be disqualified and their financial bid will not be considered / opened.

PRICE BID

- (a) Price bid undertaking
- (b) Schedule of price bid in the form of BOQ_XXXX .xls ,

PRICE BID UNDERTAKING

From: (Full name and address of the Bidder)_____

To,

Dear Sir/Madam,

1. I submit the Price Bid for **“Replacement/Modification of existing VRV/VRF and Cassette Air Conditioning System in the USIC and Nuclear Science Department , University of Delhi “** and related activities as envisaged in the Bid document.
2. I have thoroughly examined and understood all the terms and conditions as contained in the Bid document, and agree to abide by them.
3. I offer to work at the rates as indicated in the price Bid, BOQ inclusive of all applicable taxes.
4. I am / we are not blacklisted in any authorities/ Departments.

Yours Faithfully,

Signature of the Authorized Representative

[Validate](#)[Print](#)[Help](#)[Percentage BoQ](#)

Tender Inviting Authority: Engineering Department, University of Delhi.

Name of Work: Replacement/Modification of existing VRV/VRF and Cassette Air Conditioning System in the USIC and Nuclear Science Department , University of Delhi.

Contract No: CE/ET-49 /DU/EM- (2026-27) dated:- 30-04-2026

**Bidder
Name :**

PRICE SCHEDULE

(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)

NUMBE R #	TEXT #	NUMBE R #	TEXT #	NUMBER	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	Estimate d Rate	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	4	5	6	53	55
1	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement	8	Nos.	6855	54840.00	INR Fifty Four Thousand Eight Hundred & Forty Only
2	Laying and fixing of one number XLPE insulated with PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required.					
2.1	Upto 35 sq. mm (clamped with 1mm thick saddle)	300	metre	55	16500.00	INR Sixteen Thousand Five Hundred Only
3	Supplying and making end termination with brass compression gland and aluminium lugs for following size of XLPE insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.					
3.1	4X 10 sq. mm (25mm)	25	Nos.	269	6725.00	INR Six Thousand Seven Hundred &

						Twenty Five Only
4	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :					
4.1	Two or more coats on new work	200	sqm	131.45	26290.00	INR Twenty Six Thousand Two Hundred & Ninety Only
5	Applying priming coat:					
5.1	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/ steel works	100	sqm	55.5	5550.00	INR Five Thousand Five Hundred & Fifty Only
5.2	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel work (second coat)	100	sqm	29.75	2975.00	INR Two Thousand Nine Hundred & Seventy Five Only
6	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	2000	kg	142.3	284600.00	INR Two Lakh Eighty Four Thousand Six Hundred Only
7	Supplying, Installation, Testing & Commissioning of Modular type Variable Refrigerant Flow/Variable Refrigerant Volume air cooled Outdoor units suitable for cooling/heating having 100% hermetically sealed inverter type twin Rotary/Scroll Compressor(s), minimum two compressors (with individual separate PCB) for above 14HP 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 confirmation as per IS18728:2024 and CPWD Specifications and work even at 50°C ambient temperature without tripping. The system shall be able to					

	<p>deliver 100% of the rated capacity upto 39 °C. 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 per Energy Conservation and Sustainable Building Code (ECSBC) 2024 as below and complete as per CPWD specification, connections, inter connections etc. as required. (For capacity <40 kW_r ISEER 6.4, Capacity > 40 and <70 ISEER 6.5, Capacity > 70 ISEER 6.6 for ECSBC+ Building)</p> <p>For Cooling or Heating or Both</p> <p>*Note:-Refixing of the damaged false ceiling damaged during execution of the work and no extra amount will be payable for any default.</p>					
7.1	10 HP to 12 HP	280	per HP	21422	5998160.00	INR Fifty Nine Lakh Ninety Eight Thousand One Hundred & Sixty Only
8	<p>Supplying, Installation, Testing and Commissioning of following minimum capacity 4 way Cassette Type Indoor ceiling mounted unit equipped with synthetic washable media pre-filter, fan section with low noise fan/dynamically balanced blower, multispeed motor, coil section with DX Copper coil, electronic expansion valve, outer cabinet, drain pump, grill, necessary supports, vibration Isolation, Corded remote control etc., suitable for operation on single phase 230 V ± 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</p>					

	requirement in auto mode. The cooling capacity of indoor unit will be at air inlet conditions of 27 OC DB and 19 OC WB temperature.(Make will be same as of Outdoor) *Note:-Refixing of the damaged false ceiling damaged during execution of the work and no extra amount will be payable for any default					
8.01	2.0TR	7	each	39734	278138.00	INR Two Lakh Seventy Eight Thousand One Hundred & Thirty Eight Only
8.02	2.6 TR	2	each	40814	81628.00	INR Eighty One Thousand Six Hundred & Twenty Eight Only
8.03	3.6 TR	1	each	44269	44269.00	INR Forty Four Thousand Two Hundred & Sixty Nine Only
8.04	4.1 TR	2	each	45781	91562.00	INR Ninety One Thousand Five Hundred & Sixty Two Only
9	Supplying, Installation, Testing and Commissioning of following minimum capacity High wall type Indoor unit equipped with and comfort washable synthetic media prefilter, fan section with low noise fan/dynamically balanced blower, multispeed motor, coil section with DX copper coil, electronic expansion valve, outer cabinet, cord less remote control, drain pan, necessary accessories etc., suitable for operation on 230 V ± 10%, 50 Hz, single phase 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 automatically. The cooling capacity of indoor unit will be at air inlet conditions of 27 OC DB					

	and 19 0C WB temperature. (Make will be same as of Outdoor) *Note:-Refixing of the damaged false ceiling damaged during execution of the work and no extra amount will be payable for any default					
9.01	2.0 TR	22	each	22674	498828.00	INR Four Lakh Ninety Eight Thousand Eight Hundred & Twenty Eight Only
10	Supplying, 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-0 tubular insulation/with Class-0 closed cell elastometric nitrile rubber tubular sleeves sections of 19 mm thick insulation as given below for Suction and Liquid lines, all accessories as per specifications etc. as required :					
10.01	6.4 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm	200	metre	256	51200.00	INR Fifty One Thousand Two Hundred Only
10.02	9.5 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm	200	metre	346	69200.00	INR Sixty Nine Thousand Two Hundred Only
10.03	12.7 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm	150	metre	487	73050.00	INR Seventy Three Thousand & Fifty Only
10.04	15.86 mm dia (OD) (Soft drawn) with tube thickness 1.2mm	150	metre	615	92250.00	INR Ninety Two Thousand Two Hundred & Fifty Only
10.05	19 mm dia (OD) (Hard drawn) with tube thickness 1.2 mm	150	metre	739	110850.00	INR One Lakh Ten Thousand Eight

						Hundred & Fifty Only
10.06	22.2 mm dia (OD) (Hard drawn) with tube thickness 1.2 mm	150	metre	904	135600.00	INR One Lakh Thirty Five Thousand Six Hundred Only
10.07	25.4 mm dia (OD) (Hard drawn) with tube thickness 1.2 mm	100	metre	1068	106800.00	INR One Lakh Six Thousand Eight Hundred Only
10.08	28.58 mm dia (OD) (Hard drawn) with tube thickness 1.2 mm	100	metre	1157	115700.00	INR One Lakh Fifteen Thousand Seven Hundred Only
10.09	31.8 mm dia (OD) (Hard drawn) with tube thickness 1.2 mm	50	metre	1222	61100.00	INR Sixty One Thousand One Hundred Only
10.10	34.9 mm dia (OD) (Hard drawn) with tube thickness 1.2 mm	50	metre	1286	64300.00	INR Sixty Four Thousand Three Hundred Only
10.11	38.1 mm dia (OD) (Hard drawn) with tube thickness 1.62 mm	50	metre	1322	66100.00	INR Sixty Six Thousand One Hundred Only
10.12	41.27 mm dia (OD) (Hard drawn) with tube thickness 1.62 mm	50	metre	1368	68400.00	INR Sixty Eight Thousand Four Hundred Only
11	Supply of one number XLPE insulate and PVC Sheated XLPE copper conductor un armured power cable of 1.1KV grade of size 3C x 4 sqmm etc as required.	500	metre	491	245500.00	INR Two Lakh Forty Five Thousand Five Hundred Only
12	Supply of one number XLPE insulate and PVC Sheated XLPE aluminium conductor armured power cable of 1.1KV grade of size 4C x 10 sqmm etc as required.	200	metre	359	71800.00	INR Seventy One Thousand Eight Hundred Only

13	CAMC for a period of 3 years after DLP (Defect liability /Warranty period) with operation team after completion of above work (Total-4 year)					
13.01	For 1st year	1	Job	174438	174438.00	INR One Lakh Seventy Four Thousand Four Hundred & Thirty Eight Only
13.02	For 2nd year	1	Job	261657	261657.00	INR Two Lakh Sixty One Thousand Six Hundred & Fifty Seven Only
13.03	For 3rd year	1	Job	436096	436096.00	INR Four Lakh Thirty Six Thousand & Ninety Six Only
14	Operation and day to day maintainance of VRV/VRF and casseette AC system in the USIC and Nuclar Science Department at Physics Department of 01 no. of wiremen and 01 no. Khallasi etc. on daily basis during office hours as per requirements for successful functioning of AC system as per required at site. (Total 4 years)	48	Monthly	74628	3582144.00	INR Thirty Five Lakh Eighty Two Thousand One Hundred & Forty Four Only
Total in Figures					13176250.00	INR One Crore Thirty One Lakh Seventy Six Thousand Two Hundred & Fifty Only
Quoted Rate in Figures			Select		0.00	INR Zero Only
Quoted Rate in Words	INR Zero Only					

Brief scope of work is as under:

1. Replacement of defective VRV/VRF air cooled Outdoor units.
2. Replacement of defective cassette type indoor
3. Replacement of High wall type indoor unit
4. Replacement of copper piping for VRV/VRF
5. Replacement of power cable
6. Replacement of existing frame
7. Operation of the ac plant
8. CAMC for period of 3 years after DLP

Technical Conditions

1. Dismantling of the existing unit and submitting in store as per instruction Engineer In charge.
2. Refixing of the damaged false ceiling damaged during execution of the work.
3. Topping up of extra refer grant to make the unit functional.
4. During the warranty period, the complete responsibility to maintaining the system will be of vendor and no amount will be payable for any default.
5. During the CAMC, the payment amount will be released on a quarterly basis, subject to the successful operation and performance of the system. The agency shall initially bear the operational costs on a monthly and timely basis, which will subsequently be reimbursed by the university on a quarterly basis.
6. CAMC for a period of 3 years after DLP (Defect liability /Warranty period) with operation team after completion of above work comprising of 01 no. of Wiremen and 01 no. Khalisi etc.

Part A :- Detail of VRV/VRF and Cassette Air Conditioning System Proposed by the bidder

Escalation Matrix

S. No.	Item Description	Capacity of Unit		Make	Model	Compliance
						Yes/No
1.	VRV/VRF type Outdoor Unit	(a)	10 HP			
		(b)	12HP			
2.	Cassette type Indoor Unit	(a)	2.0 TR			
		(b)	2.6 TR			
		(c)	3.6 TR			
		(d)	4.1 TR			
3.	Soft/Hard drawn Copper Refrigerant Pipe	(a)	Soft drawn			
		(b)	Hard Drawn			
4.	High walls type Indoor Unit	(a)	2.0 TR			

S.No.	Name of Authority	Designation	Contact Number	Email Id
1.				
2.				
3.				
4.				

Note: - *The bidder should include supporting document along with the undertaking for the above quoted rate in Annexure C

Annexure 'D'

Following data is to be provided before execution of work

“Name of Work:- Replacement/Modification of existing of VRV/VRF and Cassette Air Conditioning System in the USIC and Nuclear Science Department, University of Delhi.”

S. No.	Item description	Parameter	Data	Remarks
1	Heat Load Calculation	Day		
		Night		
2	Selection of number and capacity of VRV/VRF.	10 HP		
		12 HP		
3	Essential supply Details VRV/VRF to be provided.	KW		
4	BMS for monitoring and control of the entire AC installation provided.	Module		
5	Space provision for plant room, terrace (for Outdoor VRV/VRF unit), Rooms for indoor unit.	Outdoor Unit		
		Indoor Unit		

CONDITIONS

Name of Work: **Replacement/Modification of existing VRV/VRF and Cassette Air Conditioning System in the USIC and Nuclear Science Department , University of Delhi**

1. All materials to be used on the work shall be of reputed makes/ISI marked, as per the sample approved by the Engineer In charge.
2. If the agency fail to complete the work within the specified /schedule time. The University reserve the right to reject their bid
3. Time allowed for the work from the day after the date of written order to commence the work will be **1460 days**
4. Water and electricity required for the work will be allowed to the contractor for use and 1.5% of the full cost of work done will be recovered
5. Cement required for the works will have to be arranged by the contractor, and his own cost.
6. All taxes as applicable shall be deducted from the bills of contractors.
7. The contractor will have to get samples of material and all fittings approved by the Engineer-in Charge or his representative before using them at site.
8. The successful contractor will have to execute or agreement with the University Authorities on the University Printed Form which can be seen before tendering in the office of the undersigned. Clause 10 CC shall not be applicable for this work.
9. Before tendering, the bidder shall visit the site and satisfy himself as to the local conditions, the accessibility of the site of full extent and implication of the operation, the nature of the ground and supply conditions affecting labour and execution of the contract. No claim on these issues will be entertained.
10. Inconvenience of Public: The Contractor shall not deposit materials on any site which will cause inconvenience to the public. The contractor may require to remove any materials which are considered to be dangerous or inconvenient to the public or cause them to be removed, at the contractor's cost as per direction of Engineer-in-charge. Works must be executed as per prevailing rules norms and guidelines of all statutory authorities.
11. In case of error in description of any DSR item given in the attached schedule, the description given in the CPWD schedule of rates E&M 2022 and civil 2021 shall be final & no claim on account of error shall be entertained.
12. All existing services and ground of the plot (like storm water drains, water supply lines, sewer lines and approach roads etc.) will be kept by contractor in good order. Any damage to lawns, services, existing structure etc. during execution of work will have to be made good by the contractor at his own cost.
13. The contractor will co-operate with the other agencies working at the site/or in the surrounding area.
14. The successful contractor or his representative should be made available at work site execution every day during the execution of the work who will receive day to day instructions from the Engineer-In-Charge or his representative.
15. The contractor has to make his own arrangement of T&P required for execution of the work and no claim will be admissible on this account.
16. The contractor should submit the following documents along with the tender:

- (a) Registration in Labour Department from Central Govt.
- (b) Registration with (a) EPFO (b) ESIC.

17. The contractor shall obtain a valid license under the Contract Labour (R & A) Act, 1970 and the Contract Labour (Regulation and Abolition) Central Rules, 1971, before the commencement of the work and continue to have a valid license until the completion of the work. The contractor shall also abide by the provisions of the Child Labour (Prohibition and Regulation) Act, 1986. The contractor shall also comply with the provisions of the building and the other construction workers (Regulation of Employment & Conditions of Service) Act, 1996 and the building and other Construction Workers Welfare Cess Act, 1996.
Any failure to fulfill these requirements shall attract the penal provisions of this contract arising out of the resultant non-execution of the work. No labour below the age of fourteen years shall be employed on the work.
18. Before commencement of the work, the contractor shall submit completion program of the assigned work so as to inform the Executive Engineer in advance. The work shall be executed without inconvenience to the beneficiaries.
19. In case the work site is not made available to the contractor according the program, no claim will be admissible on this account.
20. All doors, windows, floors, furniture, electrical fitting and other articles shall be protected from Splashes and droppings of white/colour washing, distempering, painting etc. on wall, floors, doors, window, furniture etc. the same shall be removed by the contractor at his own cost failing which the Engineer in charge shall have the right to get this work done at the risk and cost of the contractor.
21. The contractor shall have to get the site of work cleared during execution and / or on completion of work as per directions and to the satisfaction of Engineer in charge.
22. Conditional tenders / quotations will not be accepted and will be rejected outright.
23. Variation in excess of the work shall not be allowed without prior approval of the competent authority. It shall be the responsibility of the contractor to ensure that cost of the work is not increased beyond the award value.
24. The tender shall remain open for acceptance of the period of 60 days from the date of opening of tenders. If any bidder withdraws his tender before the said period or makes any modification in the terms and conditions of the tender which are not acceptable to the University, then the University without prejudice to any right or remedy be at liberty to forfeit the earnest money.
25. The University authorities reserve the right to reject any or all the tenders without assigning any reason.
26. The contractor shall sign all pages of the tender documents including these conditions. Incomplete tenders are likely to be rejected.
27. The Contractor shall be required to deposit an amount equal to 5% of the tendered value of the work as performance guarantee in the form of irrevocable bank guarantee bond of any scheduled bank or state bank of in accordance with the form prescribed or n the form of Govt. Security, fixed deposit receipt etc. as in the case of recovery of security deposit within 15 days of the issue of letter of intent but before award or work. This period can be further extended by the Engineer-In-Charge up to a maximum period of 7 days on written request of the contractor. The validity of PG should be 6 months beyond entire completion of the work.
28. The work is to be executed as per layout given by the Engineer-in-charge and the contractor shall restrict the work accordingly.
29. After the award of work and agreement will be as per the general condition of contract of work of University of Delhi, which can be seen from the office of University Engineer.

30. If the contract has not carried out the work as per the CPWD specification no claim of payment is acceptable.
31. At the time of billing the contractor will have to submit an Affidavit\undertaking regarding payment of labour has been done after the completion of work.
32. Watch and ward of the materials at site and E.I. will be the responsibility of the contractor till full testing of all the fittings are completed and handed over to the department in full and nothing extra will be paid on this account.
33. **The Contractor shall be fully responsible for the safe custody and proper storage of material at site to the satisfactions of the Engineer-in-Charge for which nothing extra will be paid.**
34. **If any damage is done to the building during the checking existing conduit, junction boxes etc. same will have to be made good by the contractor for which nothing extra will be paid.**
35. The work shall be carried out as per latest CPWD specifications with relevant IS codes for works at Delhi, with up to date correction slips unless otherwise specified in the nomenclature of the individual item of work
36. Persons executing the electrical work shall have the electrical license as required according to Indian Electricity rules
37. The board shall be rigidly fixed to the wall by means of bolts and nuts without causing damaged to the buildings.
38. All electric connection shall have to be done by the contractor and installation energized and set in working order before they can be accepted by Engineer-in Charge.
39. The contractor will be fully responsible for any accident during execution of work including third party.
40. All earth continuity conductors shall be connected to metal boards and their mountings by means suitable lugs (Crimping type)
41. The Arbitration shall be conducted in accordance with the provisions of the arbitrator and conciliation Act, 1996 (26 of 1996) or any statutory modifications or reenactment thereof and the rules made there under and for the time being in force shall apply to the arbitration proceeding. It is also a term of the contract that,

if any fees are payable to the arbitrator these shall be paid equally by both the parties
42. The agency will have the insurance policy of the workers and third party for the minimum period of one year /contract period whichever is later

(Executive Engineer)

SPECIAL CONDITION

Clause 12 shall be read as under:

CLAUSE 12. The Engineer -in charge shall have power to make any alterations in , omissions from, additions to or substitutions for , the original specifications , drawings, designs and instructions, that may appear to him to be necessary during the progress of the work , and the contractor shall carry out the work in accordance with and instructions which may be given to him in writing signed by the Engineer -in charge , and such alterations, omissions, additions or substitutions shall not invalidate the contract and any altered , additions or substituted work which the contractor may be directed to do in the manner above specified as part of the work shall be carried out by the contractor on the same conditions in all respects on which he agreed to do the main work. The time of the completion of the work shall be extended in the proportion that the altered, additional or substituted work bears to the original contract work, and the certificate of the Engineer -in charge shall be conclusive as to such to proportion. Over and above this, a further period to the extent of 25 per cent of the time as extended shall be allowed to the contractor. The rates for such additional, altered or substituted work under this clause shall be worked out accordance with the following provisions in their respective order:

- (i) If the rates for the additional , altered , substituted work are specified in the contract for the work, the contractor is bound to carry out the additional , altered or substituted work, at the same rates are as specified in the contract for the work .
- (ii) If the rates for the additional, altered, substituted work are not specifically provided in the contract for the work, the rates will be derived from rates for a similar class of work as are specified in the contract for the work.
- (iii) If the altered , additional or substituted work includes any work for which no rates is specified in the contract for the work cannot be derived from the similar class of work in the contract , than such work shall be carried out the rates entered in C.P.W.D. Schedule of Rates for Delhi 2022 Minus/ plus which the total Bidder amount bears to the estimated cost of the entire work put to tender.
- (iv) If the rates for the altered , additional or substituted work cannot be determined in the manner specified in sub- clause (i) to (iv)above then the contractor shall, within 7 days of the date of receipt of order to carry out the work , inform the Engineer - In charge of the rate which it is his intention to charge for such class of work, supported by analysis of the rate or rates claimed, and the Engineer - in charge shall determine the rate or rates on the basis of prevailing market rates, and pay the contractor accordingly. However the Engineer - in charge by notice in writing, will be at liberty to cancel his order to carry out such class of work and arrange to carry it out in such manner as he may consider advisable . But under no circumstances, the contractor shall suspend the work on the plea of non- settlement of rates of items falling under the clause.
- v) CPWD norms/ amendment issued time to time will be followed rigidly into too for extra item/ deviation/ Substituted items etc.

(Executive Engineer)

List of Approved Make (E&M)

Sl. No.	Description of item	Approved Makes/ Manufacturer
1.	MS conduit pipe and accessories	AKG/ BEC/ NIC
2.	PVC conduit pipe and accessories (Heavy duty)	AKG/ BEC/ Astral
3.	PVC insulated copper wire (FRLS/HFFR Type with ISI marked)	Finolex/ Havells/ RR Kabel / National/ KEI
4.	Modular Switches & Sockets, Fan Regulator, RJ-45(cat-6), RJ-11 outlets including modular boxes and plates	Legrand/ Northwest (Convex Series)/ Clipsal/ Honeywell (Blenze plus)
5.	MCCB, MCBs, RCCB, RCBO, MCB DBs, Contactor, ACB, Change over Switch, Timer, Industrial Sockets and accessories	Legrand/ Siemens/ Lauritz Knudsen/ Schneider / ABB /Hager
6.	LED Luminaires (Commercial series)	Philips/ Thorne/ Trilux
7.	Ceiling fan, Exhaust Fan, Cabin Fan, Wall Fan	Atomberg / Crompton / Havells/ Almonard
8.	GI Raceway	Legrand/ ABB/ Schneider/ Honeywell
9.	Cable Tray	Venus/ Honeywell/ Anchor/ BEC
10.	Occupancy Sensor	Philips/ Legrand/ Honeywell / Siemen/ Schneider
11.	DWC, HDPE Pipe	Dura-Line/ Rex/ Plato/ Tirupati/ Finolex/ Jindal
12.	Cable lugs, Glands	Dowells/ Gripwel/ Johnsons/ Comet/ Asian
13.	Cables	Havells/ Finolex/ National/ RR Kabel/ CCI
14.	Joints, End termination	3M / M-Seal/ Raychem/ Venus/ Cabseal/ Johnson
15.	Rising main, Bus Duct	Schneider/ Siemens/ Legrand/ Lauritz Knudsen
16.	Panel accessories, indicator lamp, selector switch, push button, contactor, relay, METER, Single Phase Preventer, Electrical Measuring Instruments	Siemens / Schneider / Lauritz Knudsen / Minilec / Salzer/ Trinity
17.	Electrical MV panel and APFC Panel	Lauritz Knudsen / Siemens/ ABB/ Schneider/ System Houses of above Make / Tricolite / Advance/ Adlec/ Milestone/ Precision/ Advance/ Advance Power/ Neptune/ Ambit Switchgear
18.	Current Transformer and Potential Transformer	Kappa/ AE/ BCH
19.	Battery	Exide/ Amaron/ Luminous
20.	UPS	Vertiv/ Numeric/ ABB/ Eaton/ Delta/ APC
21.	LED Display Panel	Samsung/ Panasonic/ Sony/ LG
22.	CO Sensors	Dwyer / Kele /TAC /Honeywell
23.	Pumps	KSB/ Grundfos/ Mody/ Crompton/ CRI/ Beacon/ ABB/ Xylem
24.	VRV, VRF, Chiller,	Daikin/ Carrier/ O-General/ Mitsubishi

Sl. No.	Description of item	Approved Makes/ Manufacturer
		Electric/ Bluestar/ Dunham-Bush/ Trane/ York
25.	Split AC, Window AC, Tower AC	Hitachi/ O-General/ Mitsubishi Electric / Daikin/ Voltas/ Carrier/ Bluestar
26.	Precision Air Conditioning System	Vertiv/ Daikin/ Schneider
27.	PVC Pipe	Astral/ Supreme/ Finolex
28.	Water meter, Flow meter, Actuator, Motorized Valve, Temperature sensor, Flow sensor, Pressure switch,	Belimo/ Danfoss/ ABB/ Schneider
29.	Copper Tube	Totaline/ Mandev/ Mexflow/ Parasmani Tubes/ Tamra
30.	Rubber Nitrile Insulation	Armaflex/ Armacell / Elastomeric/ K-Flex/ O-Flex
31.	HVAC Duct (Factory fabricated)	Rollastar/ Waves/ Zeco/ Ductofab
32.	Ducting GI Sheets	SAIL/ NIPPON / Tata / Jindal /JSW
33.	Dampers, Grills, Diffuser	System Air/ Caryaire/ Ruskin/ Trox
34.	Axial Fans	Greenheck/ Kruger/ Systemair/ Caryaire/ Flakt
35.	Variable Frequency Drives	Danfoss/ ABB/ Schneider/ Lauritz Knudsen/ Siemens
36.	Wet/ Dry scrubber Unit, AHU, FCU	Citizen/ Zeco/ Edgetech/ Delta
37.	MS/GI Pipe all class	Jindal/ Tata/ SAIL
38.	PVC/CPVC/UPVC PIPE	Astral/ Supreme/ Finolex
39.	Sprinkler, Flexible pipe	Naffco/ Tyco/ Victaulic/ Lifeguard
40.	Valve, Stainer	Zoloto/ Sant/ Audco/ Kirloskar/ Leader
41.	Fire Extinguishers of All type	Minimax/ Cease Fire/ Lifeguard/ Safex/ firefite
42.	Fire Alarm Panel, Repeater Panel, Detectors, RI, FI, Control Module, Monitor module, MCP, Horn cum strobe	Honeywell (Notifier)/ Edwards/ Bosch/ Siemens/ Agni/ (UL Listed)
43.	Digital Delegate, Chairman Unit, Audio Conference Controller, Digital Interface Unit	BOSCH/ Sennheiser/ Sure
44.	Video Conferencing	Panasonic/ Polycom/ Cisco
45.	Speaker, Amplifier	BOSCH/ Sennheiser/ BOSE/ Harman/ Martin Audio/ Braehler Systems
46.	HDMI Matrix Switcher, HDMI Patch Cord	Kramer/ Crestron/ Extron/ AMX
47.	Touch Screen, Master Room Controller	Apple/ AMX/ Kramer/ Crestron
48.	Access Control RID, Electromagnetic Locks, Door Access control Panel, Attendance software	Smart I/ Matrix/ Honeywell/ Time Watch
49.	CCTV Camera, NVR	Matrix/ Axis / Pelco/ Sony/ Panasonic Japan/ BOSCH
50.	Network Switch	Cisco/ Juniper/ Extreme/ Nexxus/ Arista/ Tejas
51.	OFC, Patch Cord, LIU, 24 port Jack Panel, Network Rack 42/22/15, Jack	Leviton/ Nexans/ Commscope/ Belden/ AMP/ D- Link/ Netgear/ Cisco/ Juniper/

Sl. No.	Description of item	Approved Makes/ Manufacturer
	Panel	Derwiser
52.	Hard Disk	HP/ SanDisk/ WD/ Seagate
53.	Micro phone cable/ ABC Drain cable	Havells/ D-Link/ Belden/ Kramer/Crestron
54.	Video Wall	Samsung/ Panasonic/ Sony/ LG
55.	Co-axial TV cable, CAT-6 cable	Havells/ Finolex/ RR Kabel/ KEI/ D-link/ Schneider/ Legrand/ Cisco
56.	Lift	Otis/ Kone/ Mitsubishi
57.	Any other item	As approved by the Engineer in-charge

Executive Engineer