



INDIAN INSTITUTE OF TECHNOLOGY DELHI

HAUZ KHAS, NEW DELHI – 110016

NOTICE INVITING E-TENDER

IITD/WORKS(SP-3076)/2020

Executive Engineer (Electrical), Indian Institute of Technology Delhi, Hauz Khas, New Delhi – 110016, Ph. No. 011-2659 1742 on behalf of Board of Governors invites online **Item Rate Tender** from the **OEM (Daikin / Blue Star / LG / Carrier)** or their **Authorised Dealers** as per details given below.

1	Name of work	:	Name of Work: SITC of VRF / VRV System in Research Lab at Block 5/421 in IIT Delhi
2	NIT No.	:	9800/17/IITD/EW/2020-21
3	Estimated Cost (₹)	:	6,77,637.00 (including AMC)
4	Earnest Money Deposit (₹)	:	13,553.00 (No exemption allowed)
5	Period of completion	:	45 days
6	Last date & time of bid submission	:	Upto 3 PM of 28-07-2020
7	Performance Bank Guarantee	:	5 percent of the tendered 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.

**Executive Engineer (Electrical)
For & on behalf of BOG, IIT Delhi**

Ch. Head : PLN12/01B & NPN18/23 (AMC)
Work Code : WO3494 & WO3495 (AMC)



Copy to:-

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

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SCHEDULE

1	Name of organisation	:	Indian Institute of Technology Delhi
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	:	22.07.2020 at (15:00 Hrs)
9	Document download start date	:	22.07.2020 at (15:00 Hrs)
10	Document download end date	:	28.07.2020 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	:	28.07.2020 at (15:00 Hrs)
14	Date & time of opening of Technical bids	:	29.07.2020 at (15:00 Hrs)
15	Tender fee	:	Free of cost
16	Earnest Money Deposit (EMD)	:	Rs.13,553.00 To be paid through RTGS / NEFT. IIT Delhi Bank details are as under: Name of Bank A/C: IITD Revenue A/C SBI A/C No. – 10773572622 Name of 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 online quotation / bid (Refer UTR column in the Declaration sheet at Annexure – 1)
17	No. of bids / covers (1 / 2 / 3 / 4)	:	2
18	Address for communication	:	Executive Engineer (Electrical), Works Department, IIT Delhi, Hauz Khas, New Delhi - 110016
19	Contact No.	:	011 2659 1742
20	e-mail address	:	a26984@admin.iitd.ac.in ; a26335@admin.iitd.ac.in



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 tenders by several parameters. These parameters could include tender ID, organisation 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 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 tenders they are interested in, they may download the required documents / tender schedules. The 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 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**)



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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 tenders 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. Tenderers are advised to follow the instructions provided in the "Instructions to the tenderer" 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

Executive Engineer (Electrical), Indian Institute of Technology Delhi, Hauz Khas, New Delhi – 110016, Ph. No. 011-2659 1742 on behalf of Board of Governors invites online **Item Rate Tender** from the OEM (Daikin / Blue Star / LG / Carrier) or their Authorised Dealers as per details given below:

Sr. No.	NIT No.	Name of Work & Location	Estimated cost put to bid (₹)	Earnest money (₹)	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	9800/17/IITD/EW/2020-21	Name of Work: SITC of VRF / VRV System in Research Lab at Block 5/421 in IIT Delhi	6,77,637.00 (including AMC)	13,553.00	45 days	Upto 3 PM of 28-07-2020	29-07-2020 at 03 PM	To be decided after assessing Technical Bids

- The bidder whose bid is accepted shall be required to submit a performance guarantee of 5 percent of the tendered amount in the form of Bank Guarantee or FDR from a nationalised / scheduled bank within the period specified in Schedule F. in case the bidder fails to deposit the said performance guarantee within the period as indicated in Schedule 'F', including the extended period if any, the Earnest Money deposited by the bidder shall be forfeited automatically without any notice to the bidder. The Performance Guarantee shall initially be kept valid upto the stipulated date of completion plus sixty days beyond that.
- Contractors who fulfil the following requirements shall be eligible to apply. Joint ventures are not accepted.
 - Should have satisfactorily completed the works as mentioned below during the last Seven years ending **previous day of last date of submission of bids**.
 - Three** similar works each costing not less than ₹**2,71,000.00**, or **two** similar works each costing not less than ₹**4,07,000.00**, or one similar work costing not less than ₹**5,42,000.00** (all figures rounded to nearest thousand)



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- ii. **Earnest money** of ₹13,553.00 to be deposited online as indicated in the Schedule at pg 3.
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 last date of submission of financial bid.
 4. **Similar work means Supply, Installation, Testing and Commissioning of VRF / VRV type Air-conditioning Unit**
 5. **Work means work done under Government / Public Sector Undertaking / Central Autonomous bodies.**
 6. Completion certificates are required to be got issued by an officer not below the rank of Executive Engineer 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 '4' above**
 - b. The completed cost of the work
 - c. Actual date of completion of the work
 7. IITD is committed to follow the principle of transparency, equity and competitiveness in public procurement. Before submission of bid, **each bidder should sign integrity pact at respective places** and submit the bid. **If duly signed integrity pact is not submitted by bidder, such bid shall not be considered.**
 8. **The intending bidder must read the terms and conditions [both commercial & Additional] & IITD - 6 carefully** which will be the part of the Contract. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
 9. Information and Instructions for bidders posted on website shall form part of bid document.
 10. 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 contract to be complied with and other necessary documents can be seen and downloaded from website e-procure.gov.in free of cost.
 11. But the bid can only be submitted after depositing requisite EMD as specified in the "Schedule".
 12. 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. 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 e-tendering authority, if so desired, by the tender inviting authority.
 13. Online bid documents submitted by intending bidders shall be opened only of those bidders, who has deposited requisite EMD and other documents scanned and uploaded are found in order.
 14. 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.
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15. 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.
 16. 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.
 17. Contractors must ensure to quote rate of each item.



List of Mandatory Documents to be scanned and uploaded within the period of bid submission:

1. Annexure – I duly filled in and duly mentioning UTR No. for EMD deposition and got signed
2. Valid Dealership Certificate of the OEM, if the bidder is not an OEM (*OEM & their Dealer(s) can't participate simultaneously, if occurs, BID of OEM shall only be considered rejecting Dealers' bid(s)*)
3. Technical Compliance Sheet Annex -2 duly filled and signed with Product Brochure
4. Certificate of work experience as desired. (Not mandatory for OEMs)
5. Certificate of GST Registration of the State in which the work is to be taken up, if already obtained by the bidder. If the bidder has not obtained GST registration in the State in which the work is to be taken up, or as required by GST authorities then in such a case the bidder shall scan and upload following undertaking alongwith other bid documents.

"if work is awarded to me, I/we shall obtain GST registration certificate of the State, in which work is to be taken up within one month from the date of receipt of award letter or before release of any payment by IIT Delhi, whichever is earlier, failing which I/we shall be responsible for any delay in payments which will be due towards me/us on a/c of the work executed and/or for any action taken by IIT Delhi or GST department in this regard."

6. Affidavit as per provision of the clause 1.2.2 of IITD-6 [To be submitted on stamp paper]
7. Acceptance to execute INTEGRITY PACT [see integrity pact]
8. IITD 7 / 8 duly signed
9. EPF & ESI Certificate with updated challan (*not mandatory for the OEMs*)
10. Any other document as specified in the NIT

*[N.B. -- As per CPWD Works Manual 2019, "MSME firms registered in NSIC under PP policy are exempted from payment of EMD for supply of goods and services only" Hence, there is **no applicability of EMD exemption** for this work. BID without EMD will summarily be rejected]*

**Executive Engineer [Electrical]
For & on Behalf of BOG, IIT Delhi**



IITD – 6

INDIAN INSTITUTE OF TECHNOLOGY DELHI NOTICE INVITING E-TENDER

- 1.0 Item rate tenders are invited on behalf of The Board of Governors, IIT Delhi, Hauz Khas, New Delhi - 110016 from **OEM (Daikin / Blue Star / LG / Carrier) or their Authorised Dealers** as per details given below for the work of **Name of Work: SITC of VRF / VRV System in Research Lab at Block 5/421 in IIT Delhi**
- The OEM Authorisation of the bidders should be valid on the last date of submission of bids. In case the last date of submission of bid is extended, the authorisation of bidder should be valid on the original date of submission of bids.
- 1.1 The work is estimated to cost **₹6,77,637.00 (including AMC)**. This estimate, however, is given merely as a rough guide.
- 1.1.1 The authority competent to approve NIT for the combined cost and belonging to the major discipline will consolidate NITs for calling the bids. He will also nominate Division which will deal with all matters relating to the invitation of bids.
- 1.2 Intending bidder is eligible to submit the bid provided he has definite proof from the appropriate authority, which shall be to the satisfaction of the competent authority, of having satisfactorily completed similar works of magnitude specified below:-
- 1.2.1 **Criteria of eligibility for submission of bid documents: Conditions for intending bidders / contractors**
- 1.2.1.1 **Three** similar works each costing not less than **₹2,71,000.00**, or **two** similar works each costing not less than **₹4,07,000.00**, or one similar work costing not less than **₹5,42,000.00** in last 7 years ending previous day of last date of submission of bids. 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 last date of submission of financial bid.
- 1.2.2 **To become eligible for issue of bid, the bidders shall have to furnish an affidavit as under: - "I / We undertake and confirm that eligible similar works(s) has/have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I / we shall be debarred for bidding in IIT Delhi in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee (Scanned copy to be uploaded at the time of submission of bid)"**
- 2.0 Agreement shall be drawn with the successful bidders on prescribed Form No. IITD 7/8 which is available as IIT Delhi Publication. Bidders shall quote their rates as per various terms and conditions of the said form which will form part of the agreement.
- 3.0 The time allowed for carrying out the work will be **45 days** from the date of start as defined in schedule 'F' or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the bid documents.
- 4.0 The site for the work is available.
- 5.0 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 contract to be complied with and other necessary documents except Standard General Conditions of



- Contract Form can be seen from the web Site **e-procure.gov.in**.
- 6.0 After submission of the bid the contractor can re-submit revised bid any number of times but before last time and date of submission of tender as notified.
- 7.0 While submitting the revised bid, contractor can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) but before last time and date of submission of tender as notified.
- 8.0 If it is desired to submit revised financial bid then it shall be mandatory to submit revised financial bid. If not submitted then the tender submitted earlier shall become invalid.
- 9.0 Earnest Money as specified to be paid through RTGS / NEFT. IIT Delhi Bank details are as under: Name of the Bank A/C: IITD Revenue Account; 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-1). Interested contractor who wish to participate in the bid has to ensure payment of EMD within the period of bid submission.
- 9.1 Copy of all 'mandatory documents' and other documents as specified in the press notice shall be scanned and uploaded to the e-tendering website within the period of bid submission. **However, certified copy of all the scanned and uploaded documents as specified in press notice shall have to be submitted by the lowest bidder only within a week physically in the office of tender opening authority.**
- 10.0 The bid submitted shall become invalid, if:
- 10.1 The bidder is found ineligible.
- 10.2 The bidder does not upload all the documents (including GSTIN Registration) as stipulated in the bid document.
- 10.3 EMD not deposited as specified
- 10.4 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 the bid opening authority.
- 11.0 The contractor whose bid is accepted will be required to furnish **performance guarantee of 5% (Five Percent)** of the bid amount within the period specified in Schedule F. This guarantee shall be in the form of Deposit at Call receipt of any scheduled bank / Banker' cheque of any scheduled bank/ Demand Draft of any scheduled bank/Pay order of any Scheduled Bank (in case guarantee amount is less than Rs.1,00,000/-) or Government Securities or Fixed Deposit Receipts or irrevocable Bank Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F' including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor. **The earnest money deposited alongwith bid shall be returned after receiving the aforesaid performance guarantee.**
- 12.0 Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids as to the nature of the ground and subsoil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bid. A bidder shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The bidders shall be responsible for arranging and maintaining at his own



- cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a bid by a bidder implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.
- 13.0** The competent authority on behalf of the Board of Governors does not bind itself to accept the lowest or any other bid and reserves to itself the authority to reject any or all the bids received without the assignment of any reason. All bids in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidder shall be summarily rejected.
- 14.0** Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable for rejection.
- 15.0** The competent authority on behalf of the Board of Governors reserves to himself the right of accepting the whole or any part of the bid and the bidder shall be bound to perform the same at the rate quoted.
- 16.0** The contractor shall not be permitted to bid for works in the IITD responsible for award and execution of contracts, in which his near relative is posted a Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any Gazetted officer in the IIT Delhi. Any breach of this condition by the contractor would render him liable to be debarred from bidding process in future in IIT Delhi.
- 17.0** No Engineer of Gazetted rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the prior permission of the Government of India in writing. This contract liable to be cancelled, if, either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the bid or engagement in the contractor's service.
- 18.0** The bid for the works shall remain open for acceptance for a period of **ninety days from the date of opening of financial bids**, if any bidder withdraws his bid before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of the bid which are not acceptable to the department, then the IIT Delhi shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further the bidder shall not be allowed to participate in the re-bidding process of the work.
- 19.0** This notice inviting bid shall form a part of the contract document. The successful bidder / contractor, on acceptance of his bid by the Accepting Authority shall **within fifteen days** from the stipulated date of start of the work, sign the contract consisting of:-
- 19.1** The Notice Inviting Bid, all the documents including additional conditions, specifications and drawings, if any, forming part of the bid as uploaded at the time of invitation of bid and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.
- 19.2** Standard IITD Form –7/8 or other Standard IITD Form as applicable.
- 20.0** In case any discrepancy is noticed between the documents as uploaded at the time of



submission of the bid online and hard copies as to be submitted physically in IIT Delhi, if so desired by the accepting authority, then the bid submitted shall become invalid and the IIT Delhi shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further the bidder shall not be allowed to participate in the bidding process of the work.



INTEGRITY PACT

To

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.....,
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Sub: NIT No. **9800/17/IITD/EW/2020-21** for the work of **“Name of Work: SITC of VRF / VRV System in Research Lab at Block 5/421 in IIT Delhi”**

Dear Sir,

It is hereby declared that IIT Delhi (IITD) is committed to follow the principle of transparency, equity and competitiveness in public procurement.

The subject Notice Inviting Tender (NIT) is an invitation to offer made on the condition that the Bidder will sign the Integrity Agreement, which is an integral part of the tender/bid documents, failing which the tender/bidder will stand disqualified from the tendering process and the bid of the bidder would be summarily rejected.

This declaration shall form part and parcel of the Integrity Agreement and signing of the same shall be deemed as acceptance and signing of the Integrity Agreement on behalf of the IITD.

Yours faithfully,

Executive Engineer



[TO BE SUBMITTED DULY SIGNED BY THE BIDDER ALONGWITH BID DOCUMENTS]

To

Executive Engineer (Elect.),
IIT Delhi, Hauz Khas,
New Delhi – 110016

Subject: Submission of Bid for the work of **“Name of Work: SITC of VRF / VRV System in Research Lab at Block 5/421 in IIT Delhi”**

Dear Sir,

I / We acknowledge that IIT Delhi is committed to follow the principles thereof as enumerated in the Integrity Agreement enclosed with the tender/bid document.

I / We agree that the Notice Inviting Tender (NIT) is an invitation to offer made on the condition that I / We will sign the enclosed integrity Agreement, which is an integral part of tender / bid documents, failing which I / We will stand disqualified from the tendering process. I / We acknowledge that THE MAKING OF THE BID SHALL BE REGARDED AS AN UNCONDITIONAL AND ABSOLUTE ACCEPTANCE of this condition of the NIT.

I / We confirm acceptance and compliance with the Integrity Agreement in letter and spirit and further agree that execution of the said Integrity Agreement shall be separate and distinct from the main contract, which will come into existence when tender/bid is finally accepted by IITD. I / We acknowledge and accept the duration of the Integrity Agreement, which shall be in the line with Article 1 of the enclosed Integrity Agreement.

I / We acknowledge that in the event of my/our failure to sign and accept the Integrity Agreement, while submitting the tender/bid, IITD shall have unqualified, absolute and unfettered right to disqualify the tenderer /bidder and reject the tender/bid in accordance with terms and conditions of the tender/bid.

Yours faithfully,

(Duly signed by authorized signatory of the Bidder)



[To be signed by the bidder and same signatory competent / authorized to sign the relevant contract on behalf of IITD]

INTEGRITY AGREEMENT

This Integrity Agreement is made at on this day of..... 20.....

BETWEEN

The Board of Governors, IIT Delhi, Hauz Khas, New Delhi - 16 represented through **Executive Engineer (Elect.)**, IIT Delhi

....., (Hereinafter referred as the **'Principal/Owner'**,
(Address of Division)

'Principal/Owner', which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

AND

.....
.....
(Name and Address of the Individual/firm/Company)

Through.....
..... (Hereinafter referred
(Details of duly authorized signatory)

to as the **"Bidder/Contractor"** and which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

PREAMBLE

WHEREAS the Principal / Owner has floated the Tender (NIT No. **9800/17/IITD/EW/2020-21**) (hereinafter referred to as **"Tender/Bid"**) and intends to award, under laid down organizational procedure, contract for **"Name of Work: SITC of VRF / VRV System in Research Lab at Block 5/421 in IIT Delhi"** (Name of work) hereinafter referred to as the **"Contract"**.

AND WHEREAS the Principal/Owner values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness/transparency in its relation with its Bidder(s) and Contractor(s) AND WHEREAS to meet the purpose aforesaid both the parties have agreed to enter into this Integrity Agreement (hereinafter referred to as **"Integrity Pact"** or **"Pact"**), the terms and conditions of which shall also be read as integral part and parcel of the Tender/Bid documents and Contract between the parties.

NOW, THEREFORE, in consideration of mutual covenants contained in this Pact, the parties hereby agree as follows and this Pact witnesses as under:



ARTICLE 1: COMMITMENT OF THE PRINCIPAL / OWNER

1. The Principal/Owner commits itself to take all measures necessary to prevent corruption and to observe the following principles:
 - 1.1. No employee of the Principal / Owner, personally or through any of his / her family members, will in connection with the Tender, or the execution of the Contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
 - 1.1.1. The Principal/Owner will, during the Tender process, treat all Bidder(s) with equity and reason. The Principal/Owner will, in particular, before and during the Tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the Tender process or the Contract execution.
 - 1.1.2. The Principal/Owner shall Endeavour to exclude from the Tender process any person, whose conduct in the past has been of biased nature.
2. If the Principal/Owner obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal code (IPC)/Prevention of Corruption Act, 1988 (PoC Act) or is in violation of the principles herein mentioned or if there be a substantive suspicion in this regard, the Principal/Owner will inform the Chief Vigilance Officer and in addition can also initiate disciplinary actions as per its internal laid down policies and procedures.

ARTICLE 2: COMMITMENT OF THE BIDDER(S) / CONTRACTOR(S)

1. It is required that each Bidder/Contractor (including their respective officers, employees and agents) adhere to the highest ethical standards, and report to the Government / Department all suspected acts of **fraud or corruption or coercion or collusion** of which it has knowledge or becomes aware, during the tendering process and throughout the negotiation or award of a contract.
2. The Bidder(s)/Contractor(s) commits himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the Tender process and during the Contract execution:
 - 2.1. The Bidder(s)/Contractor(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal/Owner's employees involved in the Tender process or execution of the Contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the Tender process or during the execution of the Contract.
 - 2.2. The Bidder(s)/Contractor(s) will not enter with other Bidder(s) into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to cartelize in the bidding process.
 - 2.3. The Bidder(s) / Contractor(s) will not commit any offence under the relevant IPC/PoC Act. Further the Bidder(s) / Contractor(s) will not use improperly, (for the purpose of competition or personal gain), or pass on to others, any information or documents provided by the Principal / Owner as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
 - 2.4. The Bidder(s) / Contractor(s) of foreign origin shall disclose the names and addresses of agents / representatives in India, if any. Similarly Bidder(s) / Contractor(s) of Indian Nationality shall disclose names and addresses of foreign agents/representatives, if any.



Either the Indian agent on behalf of the foreign principal or the foreign principal directly could bid in a tender but not both. Further, in cases where an agent participate in a tender on behalf of one manufacturer, he shall not be allowed to quote on behalf of another manufacturer along with the first manufacturer in a subsequent/parallel tender for the same item.

- 2.5. The Bidder(s)/Contractor(s) will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the Contract.
3. The Bidder(s)/Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
4. The Bidder(s)/Contractor(s) will not, directly or through any other person or firm indulge in fraudulent practices **means a wilful misrepresentation or omission of facts or submission of fake/forged documents in order to induce public official to act in reliance thereof, with the purpose of obtaining unjust advantage by or causing damage to justified interest of others and/or to influence the procurement process to the detriment of the Government interests.**
5. The Bidder(s)/Contractor(s) will not, directly or through any other person or firm use Coercive Practices (means the act of obtaining something, compelling an action or influencing a decision through intimidation, threat or the use of force directly or indirectly, where potential or actual injury may befall upon a person, his/ her reputation or property to influence their participation in the tendering process).

ARTICLE 3: CONSEQUENCES OF BREACH

Without prejudice to any rights that may be available to the Principal / Owner under law or the Contract or its established policies and laid down procedures, the Principal/Owner shall have the following rights in case of breach of this Integrity Pact by the Bidder(s)/Contractor(s) and the Bidder/ Contractor accepts and undertakes to respect and uphold the Principal/Owner's absolute right:

1. If the Bidder(s)/Contractor(s), either before award or during execution of Contract has committed a transgression through a violation of Article 2 above or in any other form, such as to put his reliability or credibility in question, the Principal/Owner after giving 14 days' notice to the contractor shall have powers to disqualify the Bidder(s)/Contractor(s) from the Tender process or terminate/determine the Contract, if already executed or exclude the Bidder/Contractor from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of transgression and determined by the Principal/Owner. **Such exclusion may be forever or for a limited period as decided by the Principal/Owner.**
2. **Forfeiture of EMD/Performance Guarantee/Security Deposit:** If the Principal/Owner has disqualified the Bidder(s) from the Tender process prior to the award of the Contract or terminated/determined the Contract or has accrued the right to terminate/determine the Contract according to Article 3(1), the Principal/Owner apart from exercising any legal rights that may have accrued to the Principal/Owner, may in its considered opinion forfeit the entire amount of Earnest Money Deposit, Performance Guarantee and Security Deposit of the Bidder/Contractor.
3. **Criminal Liability:** If the Principal/Owner obtains knowledge of conduct a Bidder or Contractor, or of an employee or a representative or an associate of a Bidder or Contractor which constitutes corruption within the meaning of IPC Act, or if the Principal / Owner has substantive suspicion in this regard, the Principal/Owner will inform the same to law enforcing agencies for further investigation.

ARTICLE 4: PREVIOUS TRANSGRESSION

C ... Nil I Nil O Nil



1. The Bidder declares that no previous transgressions occurred in the last 5 years with any other Company in any country confirming to the anticorruption approach or with Central Government or State Government or any other Central/State Public Sector Enterprises in India that could justify his exclusion from the Tender process.
2. If the Bidder makes incorrect statement on this subject, he can be disqualified from the Tender process or action can be taken for banning of business dealings/ holiday listing of the Bidder/Contractor as deemed fit by the Principal/ Owner.
3. If the Bidder/Contractor can prove that he has resorted / recouped the damage caused by him and has installed a suitable corruption prevention system, the Principal/Owner may, at its own discretion, revoke the exclusion prematurely.

ARTICLE 5: EQUAL TREATMENT OF ALL BIDDERS/CONTRACTORS/SUBCONTRACTORS

1. The Bidder(s)/Contractor(s) undertake(s) to demand from all subcontractors a commitment in conformity with this Integrity Pact. The Bidder/Contractor shall be responsible for any violation(s) of the principles laid down in this agreement/Pact by any of its Sub-contractors/sub-vendors.
2. The Principal/Owner will enter into Pacts on identical terms as this one with all Bidders and Contractors.
3. The Principal/Owner will disqualify Bidders, who do not submit, the duly signed Pact between the Principal/Owner and the bidder, along with the Tender or violate its provisions at any stage of the Tender process, from the Tender process.

ARTICLE 6: DURATION OF THE PACT

1. This Pact begins when both the parties have legally signed it. It expires for the Contractor/Vendor 6 months after the completion of work under the contract or till the continuation of defect liability period, whichever is more and for all other bidders, till the Contract has been awarded.
2. If any claim is made/lodged during the time, the same shall be binding and continue to be valid despite the lapse of this Pacts as specified above, unless it is discharged/determined by the Competent Authority of IIT Delhi.

ARTICLE 7: OTHER PROVISIONS

1. This Pact is subject to Indian Law, place of performance and jurisdiction is the Head Quarters of the Division of the Principal/Owner, who has floated the Tender.
2. Changes and supplements need to be made in writing. Side agreements have not been made.
3. If the Contractor is a partnership or a consortium, this Pact must be signed by all the partners or by one or more partner holding power of attorney signed by all partners and consortium members. In case of a Company, the Pact must be signed by a representative duly authorized by Board Resolution.
4. Should one or several provisions of this Pact turn out to be invalid; the remainder of this Pact remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
5. It is agreed term and condition that any dispute or difference arising between the parties with regard to the terms of this Integrity Agreement / Pact, any action taken by the Owner/Principal in accordance with this Integrity Agreement/ Pact or interpretation thereof shall not be subject to arbitration.



ARTICLE 8: LEGAL AND PRIOR RIGHTS

1. All rights and remedies of the parties hereto shall be in addition to all the other legal rights and remedies belonging to such parties under the Contract and/or law and the same shall be deemed to be cumulative and not alternative to such legal rights and remedies aforesaid. For the sake of brevity, both the Parties agree that this Integrity Pact will have precedence over the Tender/Contract documents with regard any of the provisions covered under this Integrity Pact.

IN WITNESS WHEREOF the parties have signed and executed this Integrity Pact at the place and date first above mentioned in the presence of following witnesses:

.....
(For and on behalf of Principal / Owner)

.....
(For and on behalf of Bidder / Contractor)

WITNESSES:

1.
(signature, name and address)

2.
(signature, name and address)

Place:

Dated :



INDIAN INSTITUTE OF TECHNOLOGY DELHI
HAUZ KHAS, NEW DELHI - 110016

Percentage Rate Tender / Item Rate Tender & Contract for Works

Tender for the work of **"Name of Work: SITC of VRF / VRV System in Research Lab at Block 5/421 in IIT Delhi"**

1. To be submitted online by **Upto 3 PM of 28-07-2020**
2. To be opened on **29-07-2020 at 03 PM** online

e-TENDER

I / We have read and examined the Notice Inviting Tender, schedule, A, B, C, D, E & F, Specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, Clauses of Contract, Special conditions, Schedule of Rate & other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work.

I / We hereby tender for the execution of the work specified for the Board of Governors, IIT Delhi within the time specified in Schedule 'F' viz., schedule of quantities and in accordance in all respect with the specifications, designs, drawing and instructions in writing referred to in Rule-1 of General Rules and Directions and in Clause 11 of the Conditions of contract and with such materials as are provided for, by, and in respect of accordance with, such conditions so far as applicable.

We agree to keep the tender open for ninety (90) days from the due date of its opening / ninety days from the date of opening of financial bid in case tenders are invited on 2/3 envelop system (**strike out as the case may be**) and not to make any modification in its terms and conditions.

A sum of **13,553.00** is hereby deposited in IIT Delhi Revenue Account No. 10773572622 as earnest money. If I / We, fail to furnish the prescribed performance guarantee within prescribed period I / We agree that the said The Board of Governors, IIT Delhi, Hauz Khas, New Delhi - 16 or his successors, in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I / We fail to commence the work as specified, I / We agree that The Board of Governors, IIT Delhi, Hauz Khas, New Delhi - 16 or the successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said earnest money and the performance guarantee absolutely, otherwise the said earnest money shall be retained by him towards security deposit to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form. Further, I / We agree that in case of forfeiture of Earnest Money & Performance Guarantee as aforesaid I / We shall be debarred for participation in the re-tendering process of the work.

I / We undertake and confirm that eligible similar work(s) has/have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I / We shall be debarred for tendering in IIT Delhi in future forever. Also, if such



a violation comes to the notice of Department before date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee.

I / We hereby declare that I / We shall treat the tender documents drawings and other records connected with the work as secret/confidential documents and shall not communicate information/derived there from to any person other than a person to whom I / We am/are authorized to communicate the same or use the information in any manner prejudicial to the safety of the State.

Dated:

Signature of Contractor

Witness:

Postal Address

Address:

Occupation:

ACCEPTANCE

The above tender (as modified by you as provided in the letters mentioned hereunder) is accepted by me for an on behalf of The Board of Governors, IIT Delhi, Hauz Khas, New Delhi - 110016 for a sum of (Rupees.....).

The letters referred to below shall form part of this contract agreement:-

- (a)
- (b)
- (c)

For & on behalf of Board of Governors, IIT Delhi

Signature

Dated:

Designation



PROFORMA OF SCHEDULES

SCHEDULE "A"

Schedule of Quantities (enclosed)

SCHEDULE "B"

Schedule of materials to be issued to the contractor

Sr. No.	Description of item	Quantity	Rates in figures & words at which the materials will be charged from the contractor	Place of issue
(1)	(2)	(3)	(4)	(5)
	--- NIL ---			

SCHEDULE "C"

Tools and Plants to be hired to the contractor

Sr. No.	Description	Hire charges per day	Place of issue
(1)	(2)	(3)	(4)
	--- NIL ---		

SCHEDULE "D"

Extra schedule for specific requirements / documents for the work, if any.

----- NIL -----

SCHEDULE "E"

Reference to General Conditions of Contract

1	Name of work	:	Name of Work: SITC of VRF / VRV System in Research Lab at Block 5/421 in IIT Delhi
2	Estimated cost of work (□)	:	6,77,637.00 (including AMC)
3	Earnest Money (□)	:	13,553.00
4	Performance Guarantee	:	5 percent of tendered value



5	Security Deposit	:	5 percent of tendered value
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SCHEDULE “F”

GENERAL RULES & DIRECTIONS:

Officer inviting tender	:	Executive Engineer (E)
Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2 & 12.3	:	See below

DEFINITIONS:

2 (V)	Engineer-in-charge	:	Executive Engineer (E)
2 (viii)	Accepting authority	:	Executive Engineer (E)
2 (x)	Percentage on cost of materials and labour to cover all overheads and profits	:	15 percent
2 (xi)	Standard Schedule of Rates	:	Market, DSR 2019
2 (xii)	Department	:	Estate & Works, IIT Delhi
9 (ii)	Standard IITD Contract Form	:	IITD Form 7 / 8 as modified and corrected upto date

CLAUSE 1

i)	Time allowed for submission of Performance Guarantee from the date of issue of letter of acceptance	:	15 days
ii)	Maximum allowable extension beyond the period provided in (i) above with late fees @0.1% per day of performance guarantee	:	10 days

CLAUSE 2

(i)	Authority for fixing compensation under Clause 2	:	Institute Engineer
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CLAUSE 2A

(i)	Whether Clause 2A shall be	:	No
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applicable	
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CLAUSE 5

(i)	Number of days from the date of issue of letter of acceptance for reckoning date of start	:	10 days
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TABLE OF MILE STONE(S):

Sr. No.	Description of Milestone (physical)	Time allowed in days (from date of start)	Amount to be with-held in case of non-achievement of milestone
(1)	(2)	(3)	(4)
--- NOT SPECIFIED ----			

Time allowed for execution of work	:	45 days
---	---	----------------

Authority to decide:	Extension of time	:	Engineer-in-charge
	Rescheduling of milestones	:	Institute Engineer

CLAUSE 6, 6A

Clause applicable – (6 or 6A)	:	6 A
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CLAUSE 7

Gross work to be done together with net payment / adjustment of advances for materials collected, if any, since the last such payment for being eligible to interim payment	:	Not Applicable
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CLAUSE 10A

List of testing equipment to be provided by the contractor at site lab					
1	NIL	2	NIL	3	NIL
4	NIL	5	NIL	6	NIL

CLAUSE 10B (ii)

Whether Clause 10 B (ii) shall be applicable (Yes /	:	No
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C ... Nil I Nil O Nil



No)	
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CLAUSE 10 C

Component of labour expressed as percent of value of work	:	15 Percent
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CLAUSE 10 CA

Materials covered under this clause	Nearest materials (other than cement, reinforcement bars & structural steel) for which All India Wholesale Price index to be followed	Base Price of all the materials covered under clause 10 CA*
1 NIL		
2 NIL		
3 NIL		
4 NIL		

*base price of all materials covered under clause 10 CA is to be mentioned at the time of approval of NIT

CLAUSE 10CC (Not Applicable)

Clause 10 CC to be applicable in contracts with stipulated period of completion exceeding the period shown in next column	:	NIL
Schedule of component of other Materials, Labour, P.O.L. etc. for price escalation.		
Component of Civil (except materials covered under clause 10 CA) / Electrical construction materials - expressed as percent of total value of work	:	X_m = percent
Component of labour - expressed as percent of total value of work	:	Y = percent
Component of P.O.L. – expressed as percent of total value of work	:	Z= percent

CLAUSE 11

Specification to be followed for execution of work	:	CPWD General Specifications for Electrical Works for HVAC Work with other relevant parts as amended upto date
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CLAUSE 12

12.2 & 12.3	Deviation limit beyond which clauses 12.2 & 12.3 shall apply for building	:	50%
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	work		
12.3 A	Type of work	:	Maintenance works including works of up-gradation, aesthetic, special repair, addition / alteration
12.5	Deviation limit beyond which clauses 12.2 & 12.3 shall apply for foundation work	:	50%

CLAUSE 16

Competent authority for deciding reduced rates	:	Executive Engineer
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CLAUSE 18

List of mandatory machinery, tools & plants to be deployed by the contractor at site					
1	NIL	2	NIL	3	NIL
4	NIL	5	NIL	6	NIL

CLAUSE 36 (i)

Requirement of Technical Representative (s) and recovery rate

Sr. No.	Minimum qualification of Technical Representative	Discipline	Designation (Principal Technical / Technical representative)	Minimum experience	Number	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of clause 36 (i)	
						Figures	Words
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	NIL		NIL	NIL		NIL	NIL

Assistant Engineers retired from Govt. / IIT Delhi services that are holding Diploma will be treated at par with Graduate Engineers.



COMMERCIAL AND ADDITIONAL CONDITIONS

1. GENERAL

- 1.1. This specification covers supply and delivery of materials at site, all preparatory work assembly and installation, commissioning putting into operation of VRF / VRV system & final testing & commissioning at site.
- 1.2. Location: **The equipments will be installed at Block 5/421 at 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 tenderer should in his own interest visit the site and get familiarize 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 Tenders:**
 - 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 tender shall be submitted online, duly completed as per NIT conditions within period of bid submission.
- 2.4. The tenderers are advised not to deviate from the technical specifications / item, commercial terms and conditions of NIT 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 tenderers 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 tenderer is not in line with NIT 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 tenderer(s).



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- 2.7. Necessary clarifications required by the department shall have to be furnished by the tenderer within the time given by the department for the same. The tenderer 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 tenderer 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 tenders, the department will intimate the tenders whose technical cum commercial bids are acceptable.
- 2.9. The price bids of only those tenderers 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/tenders as the case may be without assigning any reason.

3. TERMS OF PAYMENTS

- 3.1. Unless otherwise specified in the additional conditions of the contract, the payment shall be made as per the relevant clauses of form IITD 8 forming a part of the tender document

4. SECURITY DEPOSIT

- 4.1. Security Deposit shall be deducted from each running bill and final bill to the extent of 5% of the gross amount payable. **The security deposit shall be released on the expiry of guarantee period stipulated in the contract.**

5. PERFORMANCE GUARANTEE

- 5.1. The successful tenderer shall submit an irrevocable performance guarantee of 5% of the tendered amount in addition to other deposit mentioned elsewhere in the contract for his proper performance of the contract agreement within 15 days of issue of letter of acceptance of tender. This guarantee shall be in the form of Demand Draft/Pay order of irrevocable bank guarantee bond of any schedule bank or the State Bank of India in the specified perform a of Government Security, fixed deposit receipt pledged in favour of **Registrar, IIT Delhi** or as specified in the letter of acceptance of tender. The performance guarantee shall be initially valid up to the stipulated date of completion plus 45 days beyond. This bank guarantee shall be kept valid till the recording of completion certificate for the work by the competent authority.
- 5.2. 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 above and net payment shall reduce accordingly.

6. RATES

- 6.1. The rates quoted by the tenderer, shall be firm and inclusive of all taxes (including works GST & labour cess), duties, levies, etc. and all charges for packing forwarding, insurance, freight and delivery, installation, testing and commissioning etc. at site including temporary construction of storage, risks overhead charges, general liabilities/ obligations.



6.2. The contractor has to carry out maintenance as per manufacturer's standards for a period of 12 months from the date of handing over. Nothing extra shall be paid on this account for this period.

7. COMPLETENESS OF TENDER

7.1. 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.

8. STORAGE AND CUSTODY OF MATERIAL

8.1. 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.

9. CARE OF THE BUILDING

9.1. 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.

10. COMPLETION PERIOD

10.1. 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.

11. GUARANTEE

11.1. All equipments shall be guaranteed for a period of 12 months from the date of taking over the installation by the department against unsatisfactory performance and / or breakdown due to defective design, workmanship or material. The equipment or component, or any part thereof, so found defective during guarantee period shall be forthwith repaired or 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. The decision of Engineer-in-Charge in this regard shall be final & binding on the contractor.

11.2. The tenderer shall guarantee among other things, the following:

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

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

11.2.3. Satisfactory operation during the maintenance period.



12. WATER SUPPLY / POWER SUPPLY

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

13. ACCEPTABLE MAKES OF VARIOUS EQUIPMENTS

- 13.1.** The acceptable makes of various equipments / components / accessories have been indicated in "Acceptable Makes" indicated in the **BOQ itself / list attached**. The tenderer shall work out the cost of the offer on this basis. Alternate makes are not acceptable.

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 equipments 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 VRF / VRV system including Ceiling mounted indoor units, following works shall be deemed to be included with the scope of work to be executed by the tenderer-
- 14.2.1.** Minor building works necessary for installation of equipments, foundation making of opening in walls or in floors and restoring them to their original condition / finish and necessary grouting etc. as required.
- 14.2.2.** Routine, Preventive & Breakdown maintenance for six years from the date of completion and handing over.

15. VALIDITY

- 15.1.** Tenders shall be valid for acceptance for a period 90 days of days from the date of opening of price 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 tenderer shall at all times indemnify the department, consequent on this works contract. The successful tenderer 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 tenderer in so far as the latter is responsible. The successful tenderer 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 tenderer 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 tenderer shall make his arrangement for all these facilities.

19. COOPERATION WITH OTHER AGENCIES AND OCCUPANTS OF THE BUILDING

19.1. The successful tenderer 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 tenderer during the course of work, such expenditure incurred will be recovered from the successful tenderer if the restoration work to the original condition or specification of the dismantled portion of work was not undertaken by the tenderer 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



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. OPERATION & MAINTENANCE

23.1. The maintenance during one year warranty period & subsequent five years shall be as per annexure 3 of the NIT and as per CPWD General Specifications for HVAC work 2017 as amended up to date. A separate **supplementary agreement** shall be made with the successful tenderer for sub head “AMC *i.e.* Routine, Preventive & Breakdown Maintenance (for 6 years including one year guarantee period)” of schedule of work. The payment of maintenance shall be made half yearly after the end of each six months.



ANNEXURE - 1

**<< 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	TIN number	:	
7	PAN number	:	
8	UTR no. [for payment of EMD]	:	
BANK DETAILS			
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	PI 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

TECHNICAL PARTICULARS

[To be filled by the bidder neatly typed and to be submitted alongwith the Technical Bid]

[A] Details of VRV / VRF AC Unit the bidder is intended to supply:

1	Name of Manufacturer	:	
2	Name of Model / Model No.	:	
3	Name of Refrigerant used	:	
4	Type of compressor	:	
5	Total number of compressors	:	
6	IEER Value	:	
7	COP at AHRI conditions	:	
8	Condenser discharge type (Top discharge / side discharge)	:	
9	Complete Brochure of the Product attached or not?	:	

[Brochure of OEM also be enclosed showing technical spec of the VRF / VRV unit and cassette type indoor units]

[Signature of the bidder]

Name:

Seal of the bidder



Annexure 3

MAINTENANCE

This section covers the maintenance schedule during warranty period and 5 years subsequent to warranty period.

The maintenance provided during the warranty period shall be fully comprehensive and shall include but not limited to all equipments, labour part and emergency calls providing and site response within 24 hours. However during the maintenance period after the warranty is over, the material shall be arranged by the department if any replacement is warranted.

The maintenance shall also include a minimum 12 monthly preventive maintenance visits by qualified personnel who are thoroughly familiar with the type of equipment and system provided for this project.

Air handling units and fan coil units [Indoor units]	Monthly inspection	<ol style="list-style-type: none"> 1. Inspect all air handling and fan coil units 2. Check all air filters and clean or change filters as necessary 3. Check and re-calibrate modulating valves and controls. Adjust and rectify as necessary to ensure compliance to the original specifications 4. Check and clean all the condensate pans, trays and drain 5. Check, measure and re-calibrate all sensors if necessary 6. Check spring vibration isolators for abnormal vibration. Rectify if necessary. 7. Coil to be cleaned
Air handling units and fan coil units [do]	Annual inspection prior to expiry of warranty period	<ol style="list-style-type: none"> 1. Perform all functions for monthly check 2. Tighten motor terminals 3. Check starter contacts 4. Test and calibrate overload settings
Air cooled packaged units and VRF / VRV air condition equipment	Monthly check	<ol style="list-style-type: none"> 1. Check condenser fan motor load ampere 2. Check fan and motor mounting brackets 3. Check shafts and bearings. Lubricate with grease as necessary. 4. Check the tension of all belt drives and adjust as necessary 5. Check for refrigerant leaks with electronic leak detector 6. Check electrical terminals and contactors operation and connections for tightness 7. Check compressor motor current 8. Check refrigerant line driers and moisture indicators
Air cooled packaged units VRV / VRF and precision AC equipment	Annual inspection prior to expiry of warranty period	Perform all functions listed in the monthly check
Air	Monthly and	1. Check operation of all modulating and fixed dampers



distribution system [Indoor units]	Annual inspection prior to expiry of warranty period	controlling air flow through unit. Lubricate all damper bearings and linkages as necessary 2. Carry out space temperature checks on air conditioned areas with thermo hydrograph. Balance air flow as necessary to compliance with requirements of original specifications. These checks include the calibration of sensors, thermostat etc. 3. Check noise level of discharged air from diffusers
Switch board	Six-monthly and Annual inspection prior to expiry of warranty period	1. Clean and adjust all switchgear, contactors, relays and associated electrical equipment at intervals not exceeding six months 2. Check and prove operation of thermal overload and protection devices 3. Check and ensure tightness of all equipment fastenings and cable terminations within switch boards 4. Vacuum clean all switch board cubicles
Piping system	Monthly and Annual inspection prior to expiry of warranty period	1. Check all piping system for leaks and repair these where they have occurred 2. Check for damage & deterioration of insulation or sheathings. Rectify as necessary.
	Consumable materials	The department shall supply the following consumable materials as and when required:- 1. All greases and oils required for lubrication of compressors, fan bearings, motor bearings, pivots and other moving parts 2. All refrigerant required for topping up. Refrigerant loss if due to manufacturing defect or due to negligence shall be made good by the contractor 3. All consumable filter elements / rolls 4. All electric contact points required to replace worn electric contact points in switchgears, motor starter gears, electronic control gears and electric relays 5. All electric fuses required to replace blown fuses Just before the expiry of the warranty of the contract, the contractor shall carry out a complete system operability test on all the systems or sub systems as called for in the contract. The purpose of the test is to verify that the performance of all the systems or sub systems in the contract is in accordance to the specifications. All test shall be carried out in the presence of the Engineer-in-charge or his representative. The warranty period is deemed to be over if the department or his representative is completely satisfied with the system performance during the test.



SPECIFICATIONS

1.0 The work shall be carried out as per CPWD General Specifications for HVAC works 2017 as amended upto date alongwith the following changes, CPWD general Specifications for Electrical Works Part – I, II & IV as amended upto date, relevant IE Rules and as per directions of Engineer-in-Charge. For electrical panels, CPWD General Specifications for Electrical Works Part-IV shall be applicable.

IITD - 2010 CORRECTION SLIPS

C ... Nil I Nil O Nil



In General condition of contract for IIT Delhi works department 2010 –

Reference	Existing	Modified
Clause 10B (ii), Para-2	Before any instalment of advance is released, the contractor shall execute a Bank Guarantee Bond from Scheduled Bank for the amount of advance & valid for the contract period. This shall be kept renewed from time to time to cover the balance amount and likely period of complete recovery, together with interest.	Before any instalment of advance is released, the contractor shall execute a Bank Guarantee Bond from Scheduled Bank for the amount equal to 110% of the amount of advance and valid for the contract period. This (Bank Guarantee from Scheduled Bank for the amount equal to 110% of the balance amount of advance) shall be kept renewed from time to time to cover the balance amount and likely period of complete recovery.
Clause 3 (vii)	If the contractor shall obtain a contract with Government as a result of wrong tendering or other non-bonafide methods of competitive tendering.	If the contractor had secured the contract with Government as a result of wrong tendering or other non-bonafide methods of competitive tendering or commits breach of Integrity Agreement.

Reference	Existing Provision	Modified Provision
Page 5, IITD 2010	Page 5, IITD 2010 4A. Applicable for Percentage Rate Tender only (IITD-7) In case of Percentage Rate Tenders, a tenderer shall fill up the usual printed form, stating at what percentage below/above (in figures as well as in words) the total estimated cost given in Schedule of Quantities at Schedule-A, he will be willing to execute the work. Tenders, which propose any alteration in the work specified in the said form of invitation to tender, or in the time allowed for carrying out the work, or which contain any other conditions of any sort including conditional rebates, will be summarily rejected. No single tender	Page 5, IITD 2010 4A. Applicable for Percentage Rate Tender only (IITD-7) In case of Percentage Rate Tenders, contractor shall fill up the usual printed form, stating at what percentage below/above (in figures as well as in words) the total estimated cost given in Schedule of Quantities at Schedule-A, he will be willing to execute the work. The tender submitted shall be treated as invalid if :- 1. The contractor does not quote percentage above/below on the total amount of tender or any section/sub head of the tender. 2. The percentage above/below is not



	<p>shall include more than one work, but contractors who wish to tender for two or more works shall submit separate tender for each. Tender shall have the name and number of the works to which they refer, written on the envelopes.</p>	<p>quoted in figures & words both on the total amount of tender or any section/sub head of the tender.</p> <p>3. The percentage quoted above/below is different in figures & words on the total amount of tender or any section/sub head of the tender: Tenders, which propose any alteration in the work specified in the said form of invitation to tender, or in the time allowed for carrying out the work, or which contain any other conditions of any sort including conditional rebates, will be summarily rejected. No single tender shall include more than one work, but contractors who wish to tender for two or more works shall submit separate tender for each. Tender shall have the name and number of the works to which they refer, written on the envelopes.</p> <p>New Para 4B is added as below:</p> <p>4B: In case the lowest tendered amount (estimated cost + amount worked on the basis of percentage above/ below) of two or more contractors is same, such lowest contractors will be asked to submit sealed revised offer in the form of letter mentioning percentage above/below on estimated cost of tender including all sub sections/sub heads as the case may be, but the revised percentage quoted above/below on tendered cost or on each sub section/ sub head should not be higher than the percentage quoted at the time of submission of tender. The lowest tender shall be decided on the basis of revised offers.</p> <p>In case any of such contractor refuses to submit revised offer, then it shall be treated as withdrawal of his tender before acceptance and 50% of earnest money shall be forfeited. If the revised tendered amount of two more contractors received in revised</p>
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		<p>offer is again found to be equal , the lowest tender, among such contractors, shall be decided by draw of lots in the presence of SE of the circle, EE(s) in-charge of major & minor component(s) (also DDH in case Horticulture work is also included in the tender), EE(P) or EE(HQ) of the circle & the lowest contractors those have quoted equal amount of their tenders.</p> <p>In case all the lowest contractors those have quoted same tendered amount, refuse to submit revised offers, then tenders are to be recalled after forfeiting 50% of EMD of each contractor.</p> <p>Contractor(s), whose earnest money is forfeited because of non-submission of revised offer, shall not be allowed to participate in the re-tendering process of the work.</p>
Reference	Existing Provision	Modified Provision
10A (page 6-7)	<p>In case of Percentage Rate Tenders only percentage quoted shall be considered. Any tender containing item rates is liable to be rejected. Percentage quoted by the contractor in percentage rate tender shall be accurately filled in figures and words, so that there is no discrepancy. However if the contractor has worked out the amount of the tender and if any discrepancy is found in the percentage quoted in words and figures, the percentage which corresponds with the amount worked out by the contractor shall, unless otherwise proved, be taken as correct. If the amount of the tender is not worked out by the contractor or it does not correspond with the percentage written either in figures or in words, then the percentage quoted by the contractor in words shall be taken as correct. Where the</p>	<p>In case of Percentage Rate Tenders only percentage quoted shall be considered. Any tender containing item rates is liable to be rejected. Percentage quoted by the contractor in percentage rate tender shall be accurately filled in figures and words, so that there is no discrepancy.</p> <p>(Remaining part deleted)</p>



	percentage quoted by the contractor in figures and in words tally but the amount is not worked out correctly, the percentage quoted by the contractor will, unless otherwise proved, be taken as correct and not the amount.	
Reference	Existing Provisions	Modified Provisions
Deviations/ Variations Extent and Pricing	<p><u>CLAUSE 12</u></p> <p>The Engineer-in-Charge shall have power (i) to make alteration in, omissions from, additions to, or substitutions for the original specifications, drawings, designs and instructions that may appear to him to be necessary or advisable during the progress of the work, and (ii) to omit a part of the works in case of non-availability of a portion of the site or for any other reasons and the contractor shall be bound to carry out the works in accordance with any instructions given to him writing signed by the Engineer-in-Charge and such alterations, omissions, additions or substitutions shall form part of the contract as if originally provided therein and any altered, additional or substituted work which the contractor may be directed to do in the manner specified above as part of the works, shall be carried out by the contractor on the same conditions in all respects including price on which he agreed to do the main works except as hereafter provided.</p>	<p><u>CLAUSE 12</u></p> <p>The Engineer-in-Charge shall have power (i) to make alteration in, omissions from, additions to, or substitutions for the original specifications, drawings, designs and instructions that may appear to him to be necessary or advisable during the progress of the work, and (ii) to omit a part of the works in case of non-availability of a portion of the site or for any other reasons and the contractor shall be bound to carry out the works in accordance with any instructions given to him writing signed by the Engineer-in-Charge and such alterations, omissions, additions or substitutions shall form part of the contract as if originally provided therein and any altered, additional or substituted work which the contractor may be directed to do in the manner specified above as part of the works, shall be carried out by the contractor on the same conditions in all respects including price on which he agreed to do the main works except as hereafter provided.</p> <p>The completion cost of any agreement for Maintenance works including works of upgradation, aesthetic, special repair, addition/ alteration shall not exceed 1.25 times of Tendered amount.</p>



<p>Deviations, Extra Items, Pricing</p>	<p>12.2 In the case of extra items (items that are completely new and are in addition to the items contained in the contract), the contractor may within 90 days of receipt of order or occurrence of the item(s) claim rate, supported by proper analysis, for the work and the Engineer-in-charge shall within one month of the receipt of the claims supported by analysis after giving considerations to the analysis of the rates submitted by the contractor, determined the rates on basis of market rates and the contractor shall be paid in accordance with the rates so determined.</p>	<p>12.2 A. For Project and original works: In the case of extra items (items that are completely new and are in addition to the items contained in the contract), the contractor may within 90 days of receipt of order or occurrence of the item(s) claim rate, supported by proper analysis, for the work and the Engineer-in-charge shall within one month of the receipt of the claims supported by analysis after giving considerations to the analysis of the rates submitted by the contractor, determined the rates on basis of market rates and the contractor shall be paid in accordance with the rates so determined. B. For Maintenance including works of upgradation, aesthetic, special repair, addition/ alteration: In the case of Extra Item(s) being the schedule items (Delhi Schedule of Rates items), these shall be paid as per the schedule rate plus cost index (at the time of tender) plus/minus percentage above below quoted contract amount. Payment of Extra items in case of non-schedule items (Non-DSR items) shall be made as per the prevailing market rate.</p>
<p>Deviation, Substituted Items, Pricing</p>	<p>In the case of substituted items (items that are taken up with partial substitution or lieu of items of work in the contract), the rate for the agreement item (to be substituted) and substituted item shall also be determined in the manner as</p>	<p>A. For Project and original works: In the case of substituted items (items that are taken up with partial substitution or lieu of items of work in the contract), the rate for the agreement item (to be substituted)</p>



	<p>mentioned in the following Para.</p> <p>(a) If The market rate for the substituted item so determined is more than the market rate of the agreement item (to be substituted), the rate payable to the contractor for the substituted item shall be the rate for the agreement item (to be substituted).</p> <p>(b) If the market rate for the substituted item so determined is less than the market rate of the agreement item (to be substituted), the rate payable to the contractor for the substituted item shall be the rate for the agreement item (to be substituted) so decreased to the extent of the difference between the market rates of substituted item and the agreement item (to be substituted)</p>	<p>and substituted item shall also be determined in the manner as mentioned in the following Para.</p> <p>(a) If The market rate for the substituted item so determined is more than the market rate of the agreement item (to be substituted), the rate payable to the contractor for the substituted item shall be the rate for the agreement item (to be substituted).</p> <p>(b) If the market rate for the substituted item so determined is less than the market rate of the agreement item (to be substituted), the rate payable to the contractor for the substituted item shall be the rate for the agreement item (to be substituted) so decreased to the extent of the difference between the market rates of substituted item and the agreement item (to be substituted).</p> <p>For Maintenance including works of up-gradation, aesthetic, special repair, addition/ alteration:</p> <p>In the case of Substitute Item(s) being the schedule items (Delhi Schedule of Rates items), these shall be paid as per the schedule rate plus cost index (at the time of tender) plus/minus percentage above below quoted contract amount.</p> <p>Payment of Extra items in case of non-schedule items (Non-DSR items) shall be made as per the prevailing market rate.</p>
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<p>Deviation, Deviated Quantities, Pricing</p>	<p>In the case of contract items, substituted items, contract cum substituted items, which exceed the limits laid down in schedule F, the contractor may within fifteen days of receipt of order or occurrence of the excess, claim revision of the rates, supported by proper analysis for the work in excess of the above mentioned limits, provided that if the rates so claimed are in excess of the rates specified in the schedule of quantities, the Engineer-in-Charge shall within one month of receipt of the claims supported by analysis, after giving consideration to the analysis of the rates submitted by the contractor, determine the rates on the basis of the market rates and the contractor shall be paid in accordance with the rates so determined.</p>	<p>A. For Project and original works:</p> <p>In the case of contract items, substituted items, contract cum substituted items, which exceed the limits laid down in schedule F, the contractor may within fifteen days of receipt of order or occurrence of the excess, claim revision of the rates, supported by proper analysis for the work in excess of the above mentioned limits, provided that if the rates so claimed are in excess of the rates specified in the schedule of quantities, the Engineer-in-Charge shall within one month of receipt of the claims supported by analysis, after giving consideration to the analysis of the rates submitted by the contractor, determine the rates on the basis of the market rates and the contractor shall be paid in accordance with the rates so determined.</p> <p>B. For Maintenance including works of up-gradation, aesthetic, special repair, addition/ alteration:</p> <p>In the case of contract items, which exceed the limit laid down in schedule F, the contractor shall be paid rates specified in the schedule of quantities.</p>
	<p>12.3 The provisions of the preceding paragraph shall also apply to the decrease in the rates of items for the work excess of the limits laid down in Schedule F, and the Engineer-in-Charge shall after giving notice to the contractor within one month of occurrence of the excess and after taking into consideration any reply received from him within fifteen days of the</p>	<p>12.3 A. For Project and original works:</p> <p>The provisions of the preceding paragraph shall also apply to the decrease in the rates of items for the work excess of the limits laid down in Schedule F, and the Engineer-in-Charge shall after giving notice to the contractor within one month of occurrence of the excess and after taking into consideration any reply</p>



	<p>receipt of the notice, revise the rates for the work in question within one month of the expiry of the said period of fifteen days having regard to the market rates.</p>	<p>received from him within fifteen days of the receipt of the notice, revise the rates for the work in question within one month of the expiry of the said period of fifteen days having regard to the market rates.</p> <p>B. For Maintenance including works of upgradation, aesthetic, special repair, addition/ alteration:</p> <p>In the case of decrease in the rates Prevailing in the market of items for the work excess of the limits laid down in Schedule F, and the</p> <p>Engineer-in-Charge shall after giving notice to the contractor within one month of occurrence of the excess and after taking into consideration any reply received from him within fifteen days of the receipt of the notice, revise the rates for the work in question within one month of the expiry of the said period of fifteen days having regard to the market rates.</p>
Schedule F	<p>Clause 12</p> <p>No provision.</p>	<p>Clause 12</p> <p>Type of work _____</p> <p>*** _____</p> <p>*** To be filled by NIT approving authority either Project and original work or Maintenance works including works of upgradation, aesthetic, special repair, addition/ alteration.</p>



BID SUBMISSION

ONLINE BID SUBMISSION:

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

Envelope – 1 (Following documents to be provided as single PDF file)			
Sl. No.	Documents	Content	File Types
1	Technical Bid	Organization Declaration Sheet as per Annexure - I	.PDF
2		OEM Dealership Certificate	.PDF
3		Duly signed and filled Annexure – 2 with product brochure else bid will be cancelled	.PDF
4		Attested Certificate of work experience	.PDF
5		Certificate of registration for GSTIN	.PDF
6		Affidavit as per NIT condition 1.2.2 on stamp paper	.PDF
7		Acceptance to execute integrity pact	.PDF
8		IITD 7/8 duly signed by the bidder	.PDF
9		EPF & ESI Reg. proof with up-to-date challan	.PDF
10		Any other document as specified in the NIT	.PDF
Envelope – 2			
Sl. No.	TYPES	Content	
1.	Financial Bid	Price bid should be submitted in BOQ format.	.EXL

SCHEDULE OF QUANTITY



Name of work: Name of Work: SITC of VRF / VRV System in Research Lab at Block 5/421 in IIT Delhi

Item No.	Description of items	Qty.	Rate	Unit	Amount
SUB HEAD 1 (SITC)					
1	Supply Installation, Testing & Commissioning of modular type Variable Refrigerant Flow/Variable Refrigerant Volume air cooled Outdoor units suitable for cooling and heating, having all hermetically sealed inverter type Scroll Compressor(s), microprocessor based controller, top discharge type condensing unit(s), with R 410 A Refrigerant, vibration isolators, with suitable foundation etc. complete as required. The unit shall deliver the rated capacity at AHRI Conditions and work even at 50 Degree C ambient temperature without tripping. The unit shall be suitable to work on 400V +/- 10%, 3 Phase, 50Hz AC power supply. The unit shall be filled with first charge of the refrigerant and ready for use as required. The COP at AHRI conditions shall not be less than 3.1 and IEER not less than 6.5 (Make: Daikin / Blue Star / LG / Carrier)	8		HP	
2	Supply, installation, testing and commissioning of following minimum capacity 4-way flow VRV/VRF 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, cord less remote control etc., suitable for operation on single phase 230 V +/- 10%, 50Hz AC supply, complete, as required. The unit shall have automatic force shut down provision in case fire on receiving signal from BMS System. The cooling capacity of indoor unit will be at air inlet conditions of 27 degree C DB and 19 Degree C WB temperature. (Make: Same as that of VRF / VRV unit)				
	a) 1.0 TR	2		Each	
	b) 1.6TR	3		Each	



<p>3</p>	<p>Supply, Installation, testing and commissioning including vaccumisation and nitrogen testing of following nominal sizes of soft / hard drawn copper refrigerant piping for VRV/VRF system, complete with fittings, Y-type joints wherever required, with adjustable with ring type hanger supports, jointing / brazing including accessories, insulated with XLPE class - O tubular insulation / with Class-O closed cell elastomeric nitrile rubber tubular sleeves sections of specified thickness as given below for suction and liquid lines, all accessories as per specifications etc. as required:</p>				
	<p>NOTE: (1) The copper piping and piping circuit should be with minimum number of joints, which shall be attained by: (a) Using one end expanded tubes (b) bending the tubes instead of using elbow joints wherever 90 degree bending is required (2) Piping should be routed at site in such a manner, that brazed joints in the refrigeration piping are kept to a minimum (3) The makes of tube fittings shall be same as that of tubes (4) The thickness of fittings used shall be same as that of the pipe</p>				
	<p>a) 19.0 mm OD with tube thickness 1.2 mm with 19 mm thick insulation</p>	<p>60</p>		<p>Metre</p>	
	<p>b) 15.86 mm OD with tube thickness 1.2 mm with 19 mm thick insulation</p>	<p>20</p>		<p>Metre</p>	
	<p>c) 12.7 mm OD with tube thickness 1.2 mm with 19 mm thick insulation</p>	<p>20</p>		<p>Metre</p>	
	<p>d) 9.5 mm OD with tube thickness 1.2 mm with 19 mm thick insulation</p>	<p>35</p>		<p>Metre</p>	
	<p>e) 6.4 mm OD with tube thickness 1.2 mm with 19 mm thick insulation</p>	<p>40</p>		<p>Metre</p>	
<p>4</p>	<p>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 from the ceiling with GI suspenders including GI bolts and nuts, etc. as required.</p>				
	<p>225 mm width x 50 mm depth x 1.6 mm thickness</p>	<p>70</p>		<p>Metre</p>	



5	Supplying and laying of ISI marked CPVC pipe of 1 inch dia for draining of sweated water from AC evaporator unit including providing tee, joints, elbows wherever necessary etc. complete as required. (Make: Finolex / Astral / Georg Fischer)	50		Metre	
6	Fabricating, Providing and fixing M.S. iron frame fabricated with M.S. angle of size 50mm x 50mm x 6mm for resting the condenser unit on the outside wall / roof of the building duly supported from the bottom with same angle iron and finally making good the damages including painting the framework, minor civil masonry work, etc. complete as required.	10		Metre	
7	Supplying and laying of ISI marked FR pvc insulated flexible copper cable of size 3 core x 1.5 sqmm of 1.1 kv grade including making connection etc. for communication between indoor and outdoor unit and other units, etc. through conduit complete as required. (Make: Havells / Skytone / Gloster / NICCO / Polycab / RR Kabel / KEI)	150		Metre	
8	Supplying and laying of following size pvc insulated pvc sheathed armoured copper conductor cable including making connections etc. as required. (Make: Havells / Skytone / Gloster / NICCO / Polycab / RR Kabel / KEI)				
	a) 3 core x 4 sqmm	30		Metre	
	b) 4 core x 10 sqmm	120		Metre	
9	Supplying and making end termination with brass compression gland and tinned copper lugs for following size of pvc insulated and pvc sheathed / XLPE copper conductor cable of 1.1 kV grade as required.				
	a) 3 core x 4 sqmm	24		Each	
	b) 4 core x 10 sqmm	6		Each	
10	Providing and fixing 4.00 mm dia copper wire on surface or in recess for loop earthing along with existing surface / recessed conduit / submain wiring / cable as required.	120		Metre	
11	Supplying and fixing of 4 Pole DU100H type MCCB (Cat CM97933OOE2) with thermal release range 25-32 A, breaking capacity 30 kA with spreader terminals, rotary handle, in sheet steel enclosure size 1 for DU100H (cat no. CM90996OOOO) with mounting holes, DIN rail, louvres, duly factory painted for incoming supply to VRF/VRV unit etc. complete as required. (Make: L&T)	1		Each	



SUB HEAD - 2 (AMC) (Supplementary agreement shall be formed) under ARMO Fund					
1	Routine, Preventive and Breakdown maintenance of 8 HP VRF/VRV AC unit including its all accessories, condensers, evaporator units, time to time checking of refrigerant leakage, electrical circuits, etc. for smooth operation of the entire AC units during the defect liability period of 1 year after date of commissioning as per maintenance schedule. (Completely free of cost): 1st Year				
		1		Job	
2	Routine, Preventive and Breakdown maintenance of 8 HP VRF / VRV AC unit including its all accessories, condensers, evaporator units, time to time checking of refrigerant leakage, electrical circuits, etc. for smooth operation of the entire AC units after defect liability period of 1 year from the date of commissioning as per maintenance schedule. Any breakdown shall be attended within 4 hours of reporting. Spare parts required during breakdown maintenance shall be arranged by the Institute. (N.B.: 01 Job means during a period of one year)				
	2nd year	1		Job	
	3rd year	1		Job	
	4th year	1		Job	
	5th year	1		Job	
	6th year	1		Job	
	TOTAL OF SUB HEAD 2				
	TOTAL OF SH 1 & SH 2 (Rs.)				

D'Man / STS Plg.

AEE (E)

EE (E)

C ... Nil I Nil O Nil