

**NATIONAL INSURANCE ACADEMY  
BALEWADI, PUNE 411045.**



**\* e-TENDER\***

**FOR**

**S/I/T/C OF FLEXI / MULTI / HI-WALL (VRF) SPLIT A.C. UNITS FOR M.P. HALL AT  
NIA PUNE 411045.**

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**Last date of submission of tender 16.05.2022 up to 17:00 Hrs**

**Through Online Mode Only  
NIA E-Procurement Website is – <https://www.tenderwizard.com/NIA>**

**INDEX**

**NAME OF WORK: S/I/T/C OF FLEXI / MULTI /HI-WALL SPLIT (VRF) A.C. UNITS FOR M.P. HALL AT NIA PUNE 411045.**

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**NOTICE INVITING TENDER (NIT)**

Brief Description of the requirement	<b>S/I/T/C OF FLEXI / MULTI / HI-WALL SPLIT (VRF) A.C. UNITS FOR M.P. HALL AT NIA PUNE 411045.</b>
Tender Type	Open
Bid Type	Two Bid
Mode	ETS E-Tendering System
Period for Downloading of tender document Online	From 11:00 Hrs of 28.04.2022 to 15:00 Hrs of 16.05.2022
Submission of Tender Fee & EMD	Up to 15.00 Hrs of 16.05.2022
Last Date & Time for Tender Submission Online	16.05.2022 @ 17.00 Hrs. (IST)
Date / Time of Technical Bid Opening online	17.05.2022 @ 11.30 Hrs. (IST)
Date & Time of Opening of Commercial Bid Online	Shall be intimated later to the bidders, who qualify in the Technical Evaluation.
Pre-Bid Conference	Not Applicable
Offer Validity 60 days	From Bid Closing Date
Delivery Period	Preferred delivery - <b>02 weeks</b> for Supply of ACs and <b>01 week</b> for installation.
Tender Fee Applicable	Rs.590.00 ( <b>Only through e-payment mode on portal</b> )
EMD Applicable	Rs.20,000.00 ( <b>Only through e-payment mode on portal</b> )
For Technical Queries contact	Mr. P.V. Veer / <a href="mailto:pvveer@niapune.org.in">pvveer@niapune.org.in</a> / 9850130100

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## **INSTRUCTIONS TO BIDDERS**

1. All bidders are required to read these conditions carefully and **submit a letter as per format** as token of having read, understood and accepted the conditions, along with information called for by NIA.
2. The bidding document shall be read in conjunction with any amendment(s) issued.
3. Bidders should get clarified all the technical doubts and other points related to the tender before submitting the priced and un-priced offer.
4. No assumption, stipulation, deviations from terms and conditions or presumptions, etc. shall be made by the bidder while submitting the offer in the Price Part of the Tender. The liability of obtaining all necessary clarity with respect to the tender, its technical aspects and pricing shall be on the bidder.
5. NIA shall be under no obligation whatsoever to entertain any tender bid which is based on any assumption, stipulation, deviations from terms and conditions or presumptions, etc. and would have the option to reject such bid.
6. Bidder shall submit the offer in two parts, i.e., Technical Bid and Price Bid, online only i.e., tender should be uploaded in the e-system only.

### **Part I - TECHNICAL BID**

Bidders are required to serially number all the pages being appended by them as part of submission to the technical bid. Such numbering shall include, covering letter, Technical Specifications, items list being offered, Drawings, Certificates, Catalogues, Compliance or Deviation statements, etc. as applicable to this Tender and create an Index Page with headings and corresponding page numbers. In addition to this, all pages of the Tender Documents issued by NIA shall be signed on all pages and to be uploaded in the system.

### **Part II - PRICE BID**

In case, PRICE BID is included in TECHNICAL BID portion, or PRICES are mentioned in the technical bid itself, the entire bid will be rejected.

7. The item supplied/service provided shall be Environment friendly and Energy efficient.
8. In case of Tender fee/EMD, the parties are requested to upload the online receipts as a proof of the same.
9. The Bank Guarantee by Indian Bidders will be given on non- judicial stamp paper as per stamp duty applicable at the place where the tender has emanated. The non-judicial stamp paper should be in name of the issuing Bank. The Bank Guarantee by the bidders will be given from Nationalized /Scheduled Banks only.
10. Bids without Tender Fee and EMD will be summarily rejected without any further reference to the bidder.
11. Any corrigendum / amendment to the tender will be uploaded on NIA's e-tendering website <http://www.tenderwizard.com/NIA> and will not be published through press advertisement.
12. Prospective bidders should visit the above NIA website / e-Procurement site from time to time to make note of corrigendum / amendment if any. NIA will not be responsible for non-receipt of communications in this regard.

13. Deviation on Pre-Qualification Criteria (as applicable) and Bidders' Evaluation Criteria is not acceptable and such Bids having any deviation are liable for rejection.
14. Date format should be "DD.MM.YYYY" (Date/Month/Year) format in respect of dates mentioned by bidders in their offer.
15. The tender terms / conditions as per SCC (Special conditions of the contract) supersedes all similar terms / conditions prescribed under General Conditions of Contract and in case of ambiguity of similar tender terms / conditions, the stricter terms shall prevail.
16. Bidders shall send GST Invoices / Debit Notes / Commercial Invoices for the associated delivery costs including Freight and TPI if any along with the main invoice for material supply.
17. In case any of the documents / details submitted are found to be false / incorrect, NIA reserves right to cancel such bids and place such bidder/s on blacklisting.

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## INFORMATION & INSTRUCTIONS TO THE BIDDERS

### FOR USING ONLINE ELECTRONIC TENDERING SYSTEM (eTS).

Special Conditions & instructions for using online Electronic Tendering System (eTS) through portal (website) <http://www.tenderwizard.com/NIA> adopted by National Insurance Academy, Pune as given in the subsequent pages will over-rule the conditions stated in the tender documents, wherever relevant and applicable.

Bidders are required to enrol for Bidder Registration on the NIA e-Procurement Tender wizard Portal (URL: <https://www.tenderwizard.com/NIA>) by clicking on the link “Registration” on the home page of e- Portal, which is chargeable. (Rs.1000/- + GST 18%, Non-Refundable) to be paid online through e-payment gateway).

**Note: The e-Payment Gateway is available on e-Procurement Portal for making the Online Bidder Registration Payment.**

#### **Note: Information about e-Procurement Portal.**

More useful information for submitting online bids on the NIA e-Procurement Tender wizard Portal may be obtained at: <https://www.tenderwizard.com/NIA>.

Bidders are requested to refer to the Bidder’s manual by downloading the Bidder’s Manual by visiting on home page of <https://www.tenderwizard.com/NIA> and following KEY INSTRUCTIONS for BIDDERS by clicking on “Latest Circulars / Formats / Help Manuals / FAQs”. The complete Step by Step Bidder’s Help Manual For e-Procurement / e-Tendering Process, Bidder’s Registration Process, System Settings Requirements & JAVA Settings Manuals, e-Payment Guidelines & Digital Signature Certificate Process are available on e-Auction Website regarding the e-Auction.

Online Support / Web Support / E-Mail Support / Phone Support are also available for Bidders as well as Dept. Officials. Online support will be provided through “Team viewer” or “Ammy Admin” Remote software only.

For Downloading this software, the downloading software links are available on home page of e-Auction Website.

• **Registration of the Bidders / Bidders:** All the bidders intending to participate in the tenders floated online using Electronic Tendering System (ETS) are required to **get registered** on the e-Tender Portal (website) <http://www.tenderwizard.com/NIA>. After successful Registration on above mentioned portal, bidders will get a **User ID** and **Password** to access the website.

• **Viewing of Online Tenders:** The Bidders / Bidders can view tenders floated on online Electronic Tendering System (ETS) hereinafter referred as “e-Tendering System” through portal (website) at <http://www.tenderwizard.com/NIA>. They can view the details like Tender

Notice, Terms and Conditions, drawing (if any) and any other information. To download the tender, they need to login on to the above portal and can download the tender documents of an e-Tender.

• **Key Dates:** The Bidders / Bidders can view the Online Scheduled dates of e-tendering System (time schedule) hereinafter referred as “**Key Dates**” for all the tenders floated using the online electronic tendering system on above mentioned portal (Website) <http://www.tenderwizard.com/NIA>

The bidders are strictly advised to follow dates and time as mentioned in Key Dates of a particular tender. The date and time will be binding on all the bidders. The Bidders are required to complete the stages within the stipulated time as per the schedule (Key Dates) to continue their participation in the tender. All online activities are time tracked and the system enforces time locks that ensure that no activity or transaction can take place outside the start and end dates and time of the stage as defined. The Bidder should ensure that the status of a particular stage should be shown as “Completed” before the expiry date and time of that particular stage and they should possess a copy of receipt of completion of each stage to be performed from their end which should match with the status with their offer on online portal. It will be the sole responsibility of the Bidder if the status of a particular stage is “Pending” till the expiry date and time of that stage and he will not be able to proceed further in the e-Tendering process. The Key dates are subject to change in case of any amendment in schedule due to any reason stated by the Department.

• **Obtaining a Digital Certificate and its Usage:** On e-Tendering System the bids should be Encrypted and Signed electronically with a Digital Signature Certificate (DSC) to establish the identity of the Bidder on online Portal. The Digital Signature Certificate (DSC) has two keys i.e., Public Key and Private Key. The Public Key is used to Encrypt (code) the data and Private Key is used to decrypt (decode) the data. The Encryption means conversion of normal text into coded language whereas decryption means conversion of coded language into normal text.

**Note:** Digital Signature Certificates: Class III Signing + Encryption Digital Signature Certificate is required for e-Tendering. (DSCs) are issued by an approved Certifying Authority, by the Controller of Certifying Authorities (CCA India), Government of India.

• The Bidders may obtain Class III digital certificate from any Certifying Authority or Sub certifying Authority authorized by the Controller of Certifying Authorities on the portal <http://cca.gov.in>. Or may obtain information and application format and documents required for issue of digital certificate from our Service Provider for Electronic submission.

**E-Tendering System (ETS):**

E-Tender helpdesk  
#24, Sudha Complex,  
03rd Stage, 04th Block,  
Basaveshwaranagara,  
Bangalore - 560079

dscprocessingunit@yahoo.com  
Help Desk Contact Details:  
Tel: 080-40482000/121/133/140  
Mobile: 9686115304/9686115323  
E-mail: lokesh.hr@antaressystes.com  
raghuprashanth@antaressystems.com

- The Bid (Online Offer) for a particular e-Tender may be submitted only using the Digital Signature Certificate (DSC), which is used to Encrypt (codified) the data and sign the Hash (Impression of your data) during the stage of Bid Preparation and Hash submission. In case, during the process of a particular e-Tender, the user loses his Digital Certificate (i.e., due to virus attack, hardware problem, operating system problem), he may not be able to submit the bid online. Hence, the users are advised to keep their Digital Signature Certificates in safe custody.

- In case of online Electronic Tendering, if the Digital Certificate issued to the authorized user of a firm is used for signing and submitting an online bid, it will be considered equivalent to a no objection certificate / power of attorney to that User. The firm has to authorize a specific individual via an authorization certificate signed by all partners to use the Digital Certificate as per Indian Information Technology Act 2000 and its amendments. Unless the certificates are revoked, it will be assumed to represent adequate authority of the user to bid on behalf of agency for NIA Office Pune, as per Information Technology Act 2000 and its amendments. The Digital Signature of this authorized user will be binding on the firm. It shall be the responsibility of management / partners of the registered firms to inform the certifying authority or Sub Certifying Authority; in case of change of authorized user and that a fresh digital certificate is procured and issued an “Authorization Certificate” for the new user. The procedure for application of a Digital Certificate will remain the same for the new user.

- The same procedure holds true for the authorized users in a Private / Public limited company. In this case, the authorization certificate will have to be signed by the Directors of the company.

- Bidders participating in e-tendering shall check his / her validity of Digital Signature Certificate before bidding in the specific work floated online at the e-Tendering Portal (website) through <http://www.tenderwizard.com/NIA>.

**NOTE:**

NIA AND TENDERWIZARD will not entertain any reasons / claims of Bidder on account of Net Connection Failure / Power Connection Failure and any issues during the submission of tender online. Bidder shall be solely responsible for all those facts and failure of Net Connectivity, Electricity Current Connectivity etc.

For Registration and for further details on e-tendering, please visit website above mentioned portal (website) or below mentioned address:

E-Procurement Helpdesk Officials details.

NIA-HVAC TENDER



Office Address: E-Tender helpdesk, # 24, Sudha Complex, 03rd Stage,  
04th block, Basaveshwaranagara, Bangalore-560079

**Help Desk Contact Details: -**

- 1) **Mr. Sanjay K. Chandak, (Pune & Mumbai Maharashtra)**  
(E-mail: [sanjay.kc@antaressystems.com](mailto:sanjay.kc@antaressystems.com)) or  
[sanjay.kc@etenderwizard.com](mailto:sanjay.kc@etenderwizard.com)  
Ph: 9665721619.
- 2) **Mr. Lokesh,**  
(E-mail: [lokesh.hr@antaressystems.com](mailto:lokesh.hr@antaressystems.com))  
Ph: 09686115304 & 080-40482140
- 3) **Mr. Raghu Prashant,**  
(E-mail: [raghuprashanth@antaressystems.com](mailto:raghuprashanth@antaressystems.com))  
Ph: 09686115323
- 4) **Mr. Vinay B P**  
(E-mail: [vinaybp@antaressystems.com](mailto:vinaybp@antaressystems.com))

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## **ELIGIBILITY CRITERIA**

### **FOLLOWING ELIGIBILITY CRITERIA REQUIRED TO BE FULFILLED BY THE BIDDER:**

1. The bidder shall be a (Individual / proprietor, partnership firm, limited company, corporation, cooperative society, etc.) registered company/firm/HUF involved in the supply, installation, testing, commissioning and maintenance of (HVAC) air conditioning systems and should have a minimum experience of three years as on 31.03.2022. **(Attach Proof)**
2. The bidder should be a manufacturer of Air Conditioners / Authorized sales and service dealer of products of such OEM's. In case of Authorized Distributor/ Authorized Dealer, a **Manufacturer's Authorization Letter should be submitted**.
3. **Audited Balance Sheet and Profit & Loss Account statements** (certified by a practicing Chartered Accountant) for the previous three (03) financial years in support of annual turnover of minimum Rs.30.00 Lakhs.
4. Non-Eligibility: Bidder's whose contracts have been terminated / foreclosed by any department / company / firm during the last 2 years due to non-fulfillment of contractual obligation are not eligible to bid. The bidder should provide a declaration to this effect in writing separately

### **BID EVALUATION CRITERIA**

1. The bidder should accept in toto the technical specifications and scope of work given in the tender.
2. Technically accepted bids will be evaluated for commercial bids on the basis of Overall L1 basis, i.e., the lowest landed cost to NIA.

### **REJECTION CRITERIA**

#### **The bids are liable for rejection in following cases:**

1. Bids received after the due date and time of bid submission.
2. Non submission of EMD and Tender Fee.
3. Non-adherence to technical / commercial terms, incomplete bids, bids in deviations to tender conditions, bids with falsified or incorrect information, bids not meeting eligibility criteria and bids not conforming to Unpriced / Priced Bid format, manipulated or unsigned bids.
4. If price bid is submitted along with technical bid.

**GENERAL TERMS AND CONDITIONS:**

1. The prices offered by the Bidder are firm and inclusive of all taxes, duties, delivery, installation, testing and commissioning etc. No extra amount on any account will be entertained.
2. The **On-Site Comprehensive Warranty** of the AC units should cover a minimum period of **ONE YEAR**.
3. The Bidder has also to submit separately, per year charges for the **Comprehensive AMC** of the entire system, after warranty period for the **Three consecutive years**.
4. You will provide / upload **pamphlets** of the AC models / equipment (Indoor and outdoor) offered giving the technical specifications in detail.
5. It is necessary for the Bidder to have service and maintenance set up in Pune. **Information about this setup** needs to be furnished with the offer.
6. Your technical person should visit NIA for repairing / servicing / setting right the system on the same day after we register the complaint with your service department during warranty period.
7. You will be required to replace the defective components at NIA, in case of any of the AC unit or part is found defective during warranty period.
8. You will supply electrical cables for power and control of the equipment and copper piping, which are normally supplied as standard items with the ACs, free of cost.
9. Your tender should include the details of AC manufacturers, their brand names, model descriptions, original warranty, extended warranty and service arrangements etc.
10. **Payment Terms:**
  - a. **70% of the total value of the supply** of Split ACs will be paid to you after the delivery of AC units at NIA. Payment will only be made after inspection of the ACs at site and after confirming that there are no damages to the equipment during transit and during loading and unloading of the units at site. It is responsibility of the Bidder to take the delivery of the equipment and unloading the same at site.
  - b. **70% of the total value of the installation** will be paid against installation of the ACs.
  - c. **Balance 25% towards supply and installation** will be paid against testing and commissioning of all the AC units **at M.P. Hall** and after successful handing over of the installation in all respects. **The retention amount of 5%** of the total cost of the system will be released only after submission of performance bank guarantee for even amount for a period of warranty/ **DEFECT LIABILITY**.

11. Bills shall be submitted in triplicate with xerox copies of delivery challans duly stamped and signed by NIA Officials.
12. Time limit for completion of work shall be 2 weeks from the date of award of letter.
13. Earnest money deposit of the unsuccessful Bidders shall be returned within one month from the date of submission of the tender. In case of the successful Bidder, their deposit shall be adjusted towards the retention money.
14. The tender shall be valid for a minimum period of 60 days.
15. The Bidder shall enclose annual turnover statements for the last three years including names and complete postal addresses of the parties for whom the air-conditioning installation work is done, along with the work order copies and completion certificates.
16. Bidders are requested to get requisite details / information from NIA, at least 3 days prior to submission of the tender documents. Conditional quotations shall not be accepted.
17. Technically incompetent offers will be rejected and Academy does not bind itself to accept the lowest or any tender.
18. The Academy reserves the right to accept or reject any or all tenders either in whole or in part without assigning any reasons thereof. The Academy reserves the right to order part of the equipment or decrease / increase the quantity of any / all elements of the equipment or to place / repeat order subsequently.
19. The tender will be evaluated based on the rates quoted by the agency for both SITC of AC units & low side work. However, CAMC rates will also be considered and deciding factor for L-1 bidder.
20. Tenders which are issued directly to the manufacturers can quote themselves or authorize their dealer/distributor in writing to participate in the tender. Authorization letter should mention specific project name as mentioned in tender for which they are being nominated by the original manufacturer & the said letter to be attached on top of the envelope without which tender will not be considered for opening.
21. Bidder has to submit letter from OEM declaring that cooling & condenser coil for all the A.C.s are made up of copper only. Without this letter no payment will be made to the contractor.

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**SUBMISSION OF TECHNICAL BID**

The Enrolment Form along with the **Annexure A to G** shall be filled in all respect along with **these instructions for filling and uploading** of Enrolment Form.

- Bidders to note that all particulars required as per the Enrolment form and Annexures shall be filled in completely in relevant strictly as per the format.
- The forms not submitted strictly as per the above instructions within stipulated period are liable to be rejected.
- The Technical Bids as per eligibility criteria shall be evaluated. Please note that no enquiries or correspondence regarding the selection of tenders shall be entertained.
- The Bidders are advised to follow the instructions given below:
  1. Technical Bid Form shall be filled online in the e-tendering portal in capital letters and typed.
  2. Full address of the site of work, owner or authority under whom the works have been carried out should be given **(Please refer Annexure D & E)**.
  3. The Bidder should ensure to submit the satisfactory Completion Certificate giving the value of work, year of completion in **Annexure D**
  4. The annual turnover should be based on latest Income Tax Clearance Certificate duly cleared by Income Tax Department or audited balance sheet, copy of which should be enclosed.
  5. Copy of Agreement in case of works carried out for private agencies should be enclosed.
  6. All the documents uploaded are to be self-attested by the authorized signatory.
  7. Please note that the submission of TECHNICAL BID DOCUMENTS does not confer any right to claim for selection for further tendering process.

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**TECHNICAL BID**

<b>INDIVIDUAL / FIRM / COMPANY PROFILE</b>		
<b>Sr. No.</b>	<b>Required Information (QUERY)</b>	<b>ANSWER</b>
<b>1</b>	Name and registered address of the Individual/firm/company.	
<b>2</b>	Legal status (Individual / proprietor, partnership firm, limited company, corporation, cooperative society, etc. (Upload a self-attested copy of the certificate of incorporation / registration / copy of Partnership deed in case of company / corporation / co-operative society / partnership firm and any certificate issued by any statutory authority in case of Proprietor.)	
<b>3</b>	Name, designation, and telephone nos. of the contact person / persons. <b>Give full particulars of Pune Office setup.</b> Mobile Nos. Fax No. E-mail id	
<b>4</b>	Month and Year of commencement of service business in present name.	
<b>5</b>	Particulars of Sister Concern / Firm, if any.	
<b>6</b>	Statutory details <b>(Photocopies of following documents to be Uploaded)</b>	
	1. Registration number of the firm. (As per Shop and Establishment act.) – <b>Annexure A</b>	
	2. PAN No. – <b>Annexure B</b>	
	3. Goods and Service Tax No – <b>Annexure C</b>	

<b>7</b>	Annual Turn Over for last three years. ( <b>Upload attested statements of last three consecutive years duly certified by Chartered Accountant with Registration Number.</b> ) – <b>Annexure D</b>	<b>F.Y.</b>	<b>Annual Turn Over</b>
		<b>2018-2019</b>	
		<b>2019-2020</b>	
		<b>2020-2021</b>	
<b>8</b>	Fill in and upload <b>Annexure - E</b> giving full particulars about major works completed during last three years. <b>Note:</b> List of only those works which are carried out by firm participating in this Tender is to be given. Work Completion / Experience Certificates must be uploaded with address and contact numbers of issuing authority.		
<b>9</b>	Letter from bidder to Director NIA Pune. – <b>Annexure - F</b>		
<b>10</b>	Form of bank guarantee for performance guarantee In individual contract <b>Annexure - G</b>		
<b>11</b>	Name and complete postal address of bankers.		
	Name of Bank		
	Branch		
	Account No		
	IFSC Code		

**ANNEXURE - D:**

**ANNUAL TURNOVER FOR LAST THREE YEARS.**

**Name of Bidder:** \_\_\_\_\_

<b>S. No.</b>	<b>Financial Year</b>	<b>Total Contract amount received</b>	<b>IT certificate enclosed Yes / No</b>	<b>Audited balance sheet copy enclosed. Yes / No</b>	<b>Remarks</b>
<b>(1)</b>	<b>(2)</b>	<b>(3)</b>	<b>(4)</b>	<b>(5)</b>	<b>(6)</b>
1	2018-19				
2	2019-20				
3	2020-21				

**SIGNATURE OF BIDDER**



**ANNEXURE – E:**

**LIST OF WORKS COMPLETED DURING LAST THREE YEARS FROM THE DATE OF PUBLICATION OF E-TENDER NOTICE**

<b>S.N.</b>	<b>Name of the organization with complete postal address mentioning Private Sector/ Govt. Body / PSU/ Training Institute.</b>	<b>Name and designation of the contact person with Tel. / Mobile No (s)</b>	<b>Period for which the contract was awarded</b>	<b>No. of persons deployed by your firm / company / co-operative society.</b>	<b>Nature of Work.</b>
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

**SIGNATURE OF BIDDER**

NIA-HVAC TENDER

**ANNEXURE – F:**

**LETTER FROM BIDDER TO DIRECTOR NIA PUNE  
(Scan Copy to be uploaded)**

To,

Date:

The Director  
National Insurance Academy  
25, Balewadi, Baner Road,  
NIA P.O.,  
Pune – 411045

**NAME OF WORK: S/I/T/C OF FLEXI / MULTI / HI-WALL SPLIT (VRF) A.C. UNITS  
FOR M. P. HALL AT NIA PUNE 411045**

Dear Sir,

1. Having examined the specifications, conditions of tender, form of rate Contract, Schedule of quantities relating to the above work of the tender and the drawings and having visited and examined the site of the proposed works and having acquired the requisite information relating thereto as affecting the tender invited by you on behalf of the National Insurance Academy , I/We, the undersigned hereby offer to **S/I/T/C OF FLEXI / MULTI / HI-WALL SPLIT (VRF) A.C. UNITS FOR M. P. HALL AT NIA PUNE 411045** on rate contract basis in strict accordance with the contract conditions and specifications as may be ascertained in accordance with the said conditions.
2. I/We undertake to complete and deliver the whole of the works within a period as specified in the Conditions of Contract from the date of issue of an intimation from you that the tender has been accepted upon receiving possession of the site.
3. I/We enclose here with receipts of the payment made by me/us towards Earnest Money Remittance of **Rs.20,000/- (Rupees Twenty Thousand only) and cost of tender fee Rs. 500/- (Rupees Five Hundred only)**

I/We hereby agree that this sum shall be forfeited by the NIA, Pune in the event of my/our tender being accepted and I/We fail to execute contract when called up to do so.

4. In the event of the tender being accepted:
  - a) I/We agree to pay to the NIA, Pune within Fourteen days from the date of acceptance of the tender, a sum of Rs.75,000.00 (Rs. Seventy-Five Thousand Only) as Security Deposit by Demand Draft to be retained by the NIA till the Defect Liability Period and all amounts relating thereto settled. Or I/We shall agree to convert my/our EMD as a part of the Security Deposit and balance shall be recovered from interim payments up to a

*NIA-HVAC TENDER*

maximum of sum of Rs.55000.00 (Rs. Fifty-Five Thousand Only) OR **retention amount of 5%** of the total cost of the system whichever is higher.

- b) Alternatively, in lieu of total Security Deposit, I/We agree to furnish a lump sum Security Deposit of Rs.75000.00 (Rs. Seventy-Five Thousand Only) OR **retention amount of 5%** of the total cost of the system whichever is higher, in the form of Bank guarantee from any Nationalized Bank located in Pune as per specimen given in Annexure "G" to conditions of contract, within FOURTEEN days of acceptance of Tender.
5. I/We note that the Earnest Money Deposit of **Rs. 20,000/- (Rupees Twenty Thousand only)** would be refunded to me/us.
- a) On expiry of the validity of the tender or earlier at the time discretion of NIA Pune in case my/our tender is not accepted.
- b) In case my/our tender is accepted.

After the receipt of the information to me/us that my/our tender is accepted and that after I/We pay the initial security deposit or alternatively I/We furnish the security for Rs 75,000.00 (Rs. Seventy-Five Thousand Only) to the NIA, Pune, in the form of Bank Guarantee.

Yours faithfully,

**(SIGNATURE OF THE BIDDER)**

**NAME AND SEAL**

*NAME OF THE PARTNER OF THE FIRM*

**OR**

*NAME OF THE PERSON HAVING POWER OF*

*ATTORNEY TO SIGN THE CONTRACT*

*(CERTIFIED TRUE COPY OF THE POWER OF ATTORNEY SHOULD BE ATTACHED)*

**ANNEXURE - 'G'**

**FORM OF BANK GUARANTEE FOR PERFORMANCE GUARANTEE  
IN INDIVIDUAL CONTRACT**

To,

**NATIONAL INSURANCE ACADEMY,  
PUNE - 411045.**

In consideration of the National Insurance Academy, having its Office at 25, Balewadi, NIA P.O., Baner Road, Balewadi, Pune – 411045 (hereinafter called `NIA' which and the expression shall unless repugnant to the subject or context include its successors and assignees) having agreed under terms and conditions of contract (vide its acceptance letter No. \_\_\_\_\_ dated \_\_\_\_\_) made between \_\_\_\_\_ (Hereinafter called the said Contractor) and the NIA in connection with supply and installation of Split ACs (hereinafter called `the said contract') to accept a Deed of Guarantee and Indemnity as herein provided for Rs.75,000.00 i.e., Rs. Seventy Five Thousand only from the \_\_\_\_\_ in lieu of the Security Deposit to be made by the contractor and/or in lieu of the deduction to be made from the Contractor's bills, for the due fulfilment by the said contractor of the terms and conditions contained in the said contract, we the (hereinafter referred to as `the said Bank') and having our office at \_\_\_\_\_ do hereby undertake and agree to indemnify and keep indemnified the NIA from time to time to the extent of Rs.75,000.00 (Rupees Seventy Five Thousand only) against any loss or damage, costs charges and expenses caused to or suffered by or that may be caused to or suffered by the NIA by reason of any breach or breaches by the said contractor in respect of the said contract or of any of the terms and conditions contained in the said contract, or in respect of all its claims for money and / or material found due and recoverable from the said contractor and to unconditionally pay the amount claimed as such by the NIA on demand and without demur to the extent aforesaid.

We, the said Bank further agree that the NIA shall be the sole judge of and as to whether the said contractor has committed any breach or breaches of any of the terms and conditions of the said contract and the extent of loss, damage, costs, charges and expenses caused to or suffered by or that may be caused to or suffered by the NIA from time to time on account thereof and the decision of the NIA in this respect shall be final and binding on us.

The NIA shall have the fullest liberty without affecting in any way the liability of the Bank under this Guarantee or Indemnity from time to time to vary any of the terms and conditions of the said contract or to extend time of performance by the said contractor, or to postpone for any time and from time to time any of the powers exercisable by it against the said contractor and either to enforce or forbear from enforcing any of the terms and conditions governing the said Contract or securities available to the NIA and the said Bank shall not be released from its liability under these presents by any exercise by the NIA of the liberty with reference to the matters aforesaid or by reason of time being given to the, said contractor or any other forbearance, act or omission on

*NIA-HVAC TENDER*

the part of the NIA or any indulgence by the NIA to the said contractor or of any other matter or thing whatsoever, which under the law-relating to sureties would but for this provision have the effect of so releasing the Bank from its liability.

It shall not be necessary for the NIA to proceed against the contractor before proceeding against the Bank and the Guarantee and Indemnity herein contained shall be enforceable against the said Bank, notwithstanding any security which the NIA may have obtained or obtain from the contractor shall at the time when proceedings are taken against the Bank hereunder be outstanding or unrealized.

Notwithstanding anything contained in any of the foregoing clauses the liability of the Bank under this Guarantee shall not exceed Rs.75,000.00 (Rupees Seventy-Five Thousand only). The guarantee shall remain in force till \_\_\_\_\_. If any extension of time be granted to the contractor, we undertake to extend the guarantee with the consent of the contractor. Unless a claim or demand under this guarantee is made or presented to the Bank within six months from the expiry date, all the rights of the NIA under this Guarantee shall cease, and the Bank shall be released and discharged from all liability hereunder.

We, the said bank lastly undertakes not to revoke this guarantee and indemnity during its currency except with the previous consent of the NIA in writing and agree that any change in the constitution of the said contractor or the said Bank shall not discharge our liability hereunder.

For and on behalf of the Bank

\_\_\_\_\_

(Name & Designation)

The above guarantee is accepted by the  
National Insurance Academy  
For and on behalf of the NIA, Pune

\_\_\_\_\_

(Name & Designation)

Dated:

**Note No.1: FILL IN AS APPLICABLE**

**A) For Proprietary concerns:**

Shri \_\_\_\_\_ son of \_\_\_\_\_ resident  
of \_\_\_\_\_ carrying on business under the name and style of  
\_\_\_\_\_ at \_\_\_\_\_

(Hereinafter called `the said contractor' which expression shall unless the context requires otherwise include his heirs, executors, administrators and legal representative).

OR

**B) For Partnership concerns:**

1. Shri \_\_\_\_\_  
son of \_\_\_\_\_  
resident of \_\_\_\_\_

2. Shri \_\_\_\_\_  
son of \_\_\_\_\_  
resident of \_\_\_\_\_

carrying on business in partnership under the name and style of  
\_\_\_\_\_ of \_\_\_\_\_ at  
\_\_\_\_\_ (hereinafter collectively called `the contractor' which  
expression shall unless the context requires otherwise include each of them and their respective  
heirs, executors, administrators and legal representatives)

OR

**C) For Companies:**

M/s / Shri \_\_\_\_\_ a company under the Companies  
Act 1956 and having its registered office at \_\_\_\_\_ in the state of  
\_\_\_\_\_ (hereinafter called `the said contractor' which expression shall unless  
the context requires otherwise include its successors and assignees).

Note No.2:

**\*\* Please fill in the name and address of Bank.**

**TECHNICAL SPECIFICATION FOR HVAC INSTALLATION WORKS SUBJECT TO THE GENERAL CONDITIONS OF CONTRACT IN FORCE.**

**A. GENERAL**

- 1 Bidders are requested to visit the site before submitting the tender.
- 2 The rate quoted should include all electrical interconnections between control of indoor and outdoor units.
- 3 Any alternation, deviating tender will be summarily rejected under the discretion of the competent authority.
- 4 Work order will be placed with the successful Bidder on item wise contract basis. All statutory taxes applicable to this contract & IT will be deducted from the bills as applicable.
- 5 The total TR mentioned is 22.5 TR. The Bidders are requested to specify their Make & Model in the Schedule of Quantities.
- 6 Tenders are requested to note that the final bills will be settled on completion of testing and commissioning work of all AC units.
- 7 Tenders may please note to submit NIA, 3 sets of booklets to be prepared containing to equipments, as fitted drawings, test certificate, inventory, etc.

**B. SPECIAL TECHNICAL CONDITIONS:**

1. Refrigerant Piping: The piping shall be of rigid copper & having adequate wall thickness & dia. copper pipes and measurement will be from outdoor unit to indoor unit.
2. The units supplied shall have built in protection for under voltage, over voltage, single phase preventer and scanner for phase sequence.
3. The rates quoted shall include installation of indoor and outdoor units on AV pads with necessary angle iron framework and first filling of the gas.
4. The make of AC machine: **Carrier / Blue Star / Voltas / Hitachi.**
5. The bidder must submit the technical specifications of the Split AC unit offered, in the following format only.

\*\*\*\*\*

**C. SCOPE OF WORK:**

The M.P. Hall is presently equipped with following type of HVAC installation. The bidder has to dismantle the existing equipments i.e., all indoor units, outdoor units, suction and discharge piping, control cabling, drain piping, S.A and R.A. grills and M.S. stands etc. and store them at one location near M.P. Hall, as directed by NIA Official.

<b>Carrier make -- Split 7.5 TR Furred IN AC</b>				
<b>Outdoor Unit</b>			<b>Indoor Unit</b>	
Model: 38LH090T			Model: 42 CM - 010 DX	
Cooling Capacity - 22500 Kcal/hr., Power Supply- 415 V, 3 Ph, 50 Hz, FLA - 20 A, Watts - 8200, Refrigerant - R22			Cooling AC - 7500 Kcal/hr., 230 V, 50 Hz, FLA - 0.78 A, O/P W- 62, R22, 1.5 Kg/sq.mm.	
<b>1</b>	<b>Outdoor Unit Sr. No.</b>	<b>Compressor</b>	<b>Fan Motor</b>	<b>Indoor Unit Sr. No.</b>
	2AN5-00-DMN-0973	J10001522	12L011864	3BY5-00DMN-602
		J10001513	12L010863	3BY5-00DMN-603
		J10001523		3BY5-00DMN-604
<b>2</b>	<b>Outdoor Unit Sr. No.</b>	<b>Compressor</b>	<b>Fan Motor</b>	<b>Indoor Unit Sr. No.</b>
	2AN5-00-DMN-0974	J10001547	12L012548	3BY5-00DMN-605
		J10001538	12L012896	3BY5-00DMN-606
		J10001539		3BY5-00DMN-607
<b>3</b>	<b>Outdoor Unit Sr. No.</b>	<b>Compressor</b>	<b>Fan Motor</b>	<b>Indoor Unit Sr. No.</b>
	2AN5-00-DMN-0975	J10001515	12L012576	3BY5-00DMN-608
		J10001354	12L011323	3BY5-00DMN-609
		J10001366		3BY5-00DMN-610

Installation of new AC units (Indoor / Outdoor) will be at the same locations as existing units. The installation of proposed Flexi / Multi Split AC Unit having one outdoor unit of 7.5TR capacity with three circuits of 2.5 TR, refrigerant piping from outdoor to 3 indoor units, drain piping, electrical and control cabling, canvass connection, aluminium powder coated grills, for supply and return air, wooden boxing with proper insulation for covering indoor units, G. I. sheet cover for some of the indoor units will be in the scope of the bidder as per site requirement.

There would be second option for S/I/T/C OF 2.5/2.8TR HI-WALL SPLIT INDOOR UNIT WITH 10.00 HP OUTDOOR VRF UNIT.

The total no of outdoor units would be three and indoor units will be nine and same as per existing installation, as the work is as good as revamping the old AC units. The total capacity of Air-conditioning is limited to 22.5 TR/24.0 TR as per existing installation.

An additional support to strengthen the CFM capacity of Indoor AC units is being provided by installing one no of 16 feet dia. **HVLS** fan. [High Volume Low Speed Fan] in the hall.



**TECHNICAL SPECIFICATIONS OF FLEXI/MULTI /HI-WALL VRF SPLIT AC**

**The Bidder has to submit separate bid for Option I and Option II AC Installation**

S.N.	PARAMETERS	SPECIFICATIONS	DETAILS
1	MAKE	BLUE STAR / CARRIER / VOLTAS / HITACHI	
<b>OUTDOOR UNIT – 1 No</b>			
2	Model		
3	Performance Parameters	Nominal Capacity (TR)	<b>7.5 TR /10 HP VRF</b>
		(Rated) Voltage / Frequency / Phase	<b>415V / 50 Hz / 3 Phase</b>
		Rated Cooling Capacity (BTU/Hr)	
4	Compressor, Refrigerant & Ambient Operations	Compressor Type	
		No. of Compressors	<b>3/1</b>
		Compressor Warranty	
		Refrigerant	
		Ambient Temp (Cooling) <sup>0</sup> C	
5	Remote Type	Cordless / Corded	
		ODU Dimension (W x H x D) mm	
		Net Weight ODU	
		Noise Level Outdoor in dB	
6	Tube Size and Piping Capability	Suction Tube Size Outer Diameter Inch (mm)	
		Liquid Tube Size Outer Diameter Inch (mm)	
		Maximum Piping Capability Total (Metre)	
		Maximum Piping Capability Vertical (Metre)	
		Refrigerant Additional Charge beyond 4 M (g/m)	
<b>INDOOR UNITS – 3 Nos</b>			
7	Model		
		Nominal Capacity (TR)	<b>2.5 TR</b>
		Rated Cooling Capacity (BTU/Hr)	
		(Rated) Voltage / Frequency / Phase	<b>230V / 50 Hz / 1 Phase</b>
		Air Flow (CFM)	
		IDU Dimension (W x H x D) mm	
		Net Weight IDU	

**D. COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT (CAMC) FOR AC UNITS**

**TERMS & CONDITIONS:**

**1. GENERAL:**

- 1.1. The AC UNITS shall be serviced quarterly in the contract period and during defects liability period of 12 Months. One of the services will be rendered immediately after acceptance CAMC contract, after that the services are required to be carried out regularly in a gap of 3 months.
- 1.2. In addition to above Scheduled services any complaints/ shutdown calls to be immediately attended and rectified for the fault condition within 24 hours without extra charges during CAMC period.
- 1.3. Unless otherwise specifically agreed to, the contract service shall be available during normal working hours and days i.e., Monday to Friday from 9 AM to 5 PM and on Saturdays 9 AM to 2 pm. The service provider should be prepared to provide services beyond above timings as per mutual understanding.

**2. SCOPE OF WORK:**

- 2.1 The CAMC shall be all inclusive, comprehensive type (Including replacement of all spare parts such as Compressor, cooling and condensing coil, filters, fins, refrigerant gas filling etc.) The CAMC will start, after defects liability period of 12 Months. The rates quoted shall be all inclusive, nothing extra in any account will be payable other than the CAMC charges quoted in the tender.
- 2.2 The replacement of all parts if any shall be original, genuine make and old replaced should be shown to the Office if instructed.
- 2.3 During every servicing dust should be removed from the whole indoor and outdoor units / machine.
- 2.4 Checking of electrical connections at all terminations for loose connection to avoid fire risks.

**3. TERMS AND CONDITIONS:**

- 3.1. The CAMC charges quoted shall be inclusive of all taxes and service taxes will be reimbursed at actual on submission of documentary proof. All statutory deductions will be made from your bills.
- 3.2. The Bidder/ service provider should submit service report for regular and complaint calls duly acknowledged and should be enclosed along with periodic bills as a proof of attending services.
- 3.3. Any injury to your servicemen while attending the servicing/breakdown calls will be the sole responsibility of service provided. Labours engaged by the agency towards the SITC of AC units as well for the regular maintenance, shall have adequate insurance. No compensation/claim from the contractor's employee/labourer will be entertained by NIA.
- 3.4. Payment will be made after completion of quarterly servicing for which the agency should submit invoice along with service reports for the services carried out during the quarterly period. The proportionate amount will be deducted if complete services are

- not provided.
- 3.5. No deviation to NIA conditions of contract is acceptable and if any such deviations observed, the tender is liable to be rejected.
  - 3.6. Log sheets are to be maintained for each individual unit separately.
  - 3.7. The manufacturers are requested to note that in the event of this enquiry being forwarded by you, any of your authorized servicing centre, if those dealers/agency's performance is not found to the satisfaction of the NIA, it shall be responsibility of the said firm to rectify the defects / liabilities.
  - 3.8. In the event of services being not satisfied during the AMC period NIA reserves the rights to terminate the contract by giving 30 days' notice.

#### **4. SPECIAL CONDITIONS:**

- 4.1 During the visits of your representative for servicing, breakdown calls etc. they have to carry out the following works:
  - a) Inspection of indoor & outdoor units of all ac units & carrying out the servicing once in every quarter.
  - b) Checking the refrigeration system, motor & starter etc. For performance & overall healthy condition of the ac system.
  - c) Checking the system for leaks & rectifying the leaks etc.
  - d) Checking the refrigeration control system for necessary adjustments to ensure trouble free operation.
  - e) Checking the evaporator & condenser coil & necessary cleaning by water.
  - f) Lubricating the fan motors as when required.
  - g) Repairing & replacement of the ac components at site as & when required.
  - h) Overhauling of the components as & when required.
  - i) Repair/replacement of the components of microprocessor as & when required.
  - j) Attending the breakdown calls as & when required.
  - k) Replacement of defective equipments such as compressor, motor, fans, microprocessor, including cables, all type of piping, replacement of all type of filters.
  - l) Cleaning of drainpipe as & when required.
  - m) Necessary gas charging as & when required.
- 4.2) You are requested to submit the certificates of all your visits for servicing, call back. Repairing, breakdown calls etc. with relate to ac units to the concerned.
- 4.3) When closing the operation of the AIR CONDITIONING UNITS for more than a day will be necessary for major repairs/ replacements/overhauling etc. this should be prearranged in consultation with the NIA & necessary concurrence from the Office.
- 4.4) In case of AC units closed for a period of 24 Hrs due to non-attendance or negligence by your agency, or without any valid reason, proportionate deduction in the maintenance charges will be made from the CAMC bill.
- 4.5) In case of any accident, it will be entirely your responsibility for all consequences and cost involved unless you prove that the cause of accident was not due to improper maintenance of the AC units.

**E. LIST OF PRINCIPAL MAKES/BRANDS OF VARIOUS MATERIALS**

1. Materials used in the work should be from the following list of principal makes/ brands mentioned List. In case of non-availability of these makes/brands, NIA may allow materials licensed by BIS bearing "ISI" monogram subject to price adjustment.
2. For all other manufactured materials for which principal makes are not mentioned the materials allowed to be used in the work shall have BIS certification and samples for which are to be got approved prior to use of the same in the work.
3. For some materials BIS certification may not be available. In such cases the samples shall have to be got approved before using in the work.

SL.NO.	MATERIAL	MAKES/AGENCIES/BRANDS
1	Copper Pipes/Tubes	Rajco Metal Industries, B.P. Conex, Comap
2	PVC Pipes and Fittings	Chemplast, Prince, Supreme, Finolex, Oriplast
3	Copper conductor PVC insulated FR Grade wires / cables	Finolex, Havells, V Guard, Polycab, RR cables
4	PVC Conduit (ISI Mark)	Precision, Avon Plast, Essarke, Sudhakar, Kalinga, AKG
5	Flexi / Multi/ Hi-wall VRF Split AC	Blue Star, Voltas, Carrier, Hitachi

FINANCIAL BID

**OPTION I**

**S/I/T/C OF FLEXI / MULTI SPLIT A.C. UNITS FOR M.P. HALL AT NIA PUNE 411045.  
Schedule of Quantities - AIR CONDITIONING SYSTEM**

Sr. No.	Item Description	Qty	Unit	Rate Rs.	Amount Rs.
<b>PART A – SITC</b>					
1	Supply, Installation, Testing and Commissioning of DX Type Flexi / Multi Split AC Unit with Multiple Indoor Units of ‘In the ceiling / Concealed Type’ & Common Outdoor Unit with Multiple Compressors and Independent refrigerant circuit fittings. Consisting of fan, three / four speed motor, coil section with DX coil, outer cabinet, filter, insulated drain pan, provision for fresh air. Including Control / Air Panel, Receiver kit & Cordless or corded remote control etc. Unit shall be compatible to work up to 52 <sup>0</sup> C ambient temperature.				
	7.5 TR Flexi Outdoor Unit, suitable for the Power Supply of 415+/-5% V / 50 Hz / Three Phase.	3	Nos.		
	Indoor Unit – Evaporator, 2.5TR ‘In-the-ceiling / Concealed type’, suitable for the Power Supply of 230V/50 Hz/ Single Phase.	9	Nos.		
2	Installation, testing & commissioning of <b>7.5 TR Capacity Flexi / Multi Split Air Conditioning Unit</b> with complete accessories required for both the outdoor and indoor units. The rate should include Nitrogen Pressure Testing, Vacuuming & Commissioning of the System with additional topping up of gas if required in each unit. [7.5 TR Outdoor Unit – 1 No + 2.5 TR Indoor Unit – 3 Nos.]	3	Units		
3	Supply, installation, testing and commissioning of refrigerant piping using eddy current free Copper pipes	225	Mtrs		

	and fittings like elbows, couplers, tee joints, brass fittings, "U" loops, expansion loops etc. Insulation of pipes using 13 mm thick up to 19 mm Cu Pipe & 19 mm thick above 19 mm Cu pipe Nitrile rubber insulation, structural clamps with hard PVC pipe sleeves under the clamps to protect insulation at supports. For 2.5 TR - Suction Pipe 5/8" & Liquid Pipe - 3/8" Please note suction & discharge line of copper piping from ODU to IDU will be treated as one length only.				
4	Supply, installation, testing and commissioning of 25 mm dia PVC rigid condensate drain water piping with necessary clamps, supports, hangers and fitting such as bend, tees, reducers etc. duly insulated with 6 mm thick chemically cross-linked closed cell polyethylene foam. complete on wall / beam / ceiling on surface including providing of U trap at the bottom.	90	Mtrs		
5	Supply, Installation, Testing and Commissioning of Copper, armoured Control / Communication Cabling of required size (Suitably laid & tied / clamped with PVC ties on copper piping in the G.I. cable tray to connect outdoor units with respective indoor units. Providing and fixing of necessary <b>Control Cabling</b> of required size for AC units complete with all accessories including incoming and outgoing connections.	250	Mtrs		
6	Supply and fixing of suitable size M.S. Stand for mounting of Outdoor Units on terrace. M.S. stand to be painted with red oxide & enamel paint. The height of M.S. stand must be a minimum of 250 mm from floor level.	3	Nos		
7	Supply and fixing of 150 x 50 mm, 18 SWG G.I. HOT dip / Powder Coated Perforated Type Cable Tray with coupler plates and hardware for laying	150	Mtrs		

	refrigerant piping, control cabling and drainpipes etc.				
8	Supply & Installation of duly powder coated extruded aluminium linear horizontal fixed bar grills for both Supply & Return length HAT Type Indoor Units.	125	SFT		
9	Supply & Installation of Canvass Connection with ducting collar from Indoor unit to linear grills.	9	Nos		
10	Supply & Installation of 10 mm thick waterproof plywood with required hardwares for making wooden boxing cover with insulation for indoor units.	180	SFT		
11	Dismantling 3 Units of 7.5TR Furred IN ACs consisting of 3 Outdoor Units, 9 Indoor Units, refrigerant piping, power cabling, drain piping, wooden boxing and fibre glass cover arrangement, SA/RA Grills and M.S. stands and structure etc. and handing over to NIA with acknowledgement by storing them at one location near M.P. Hall	Job	L.S.		
	<b>Total Amount</b>			<b>Rs.</b>	
	<b>GST on Item 1</b>			<b>%</b>	
	<b>GST on Item 2 to 10</b>			<b>%</b>	
	<b>TOTAL OF PART- A</b>			<b>Rs.</b>	
<b>PART - B, CAMC FOR 3 YEARS</b>					
12	Comprehensive maintenance contract (All parts repairs / replacement inclusive) for multi / flexi split units along with spare parts & labour including all types of taxes (but excluding GST) for the period of 3 years. The CAMC will be in force after completion of guarantee period of one year. The rates mentioned should be per for all machines 7.5 TR x 3 Nos per year.				
	First Year	Job	L.S.		
	Second Year	Job	L.S.		
	Third Year	Job	L.S.		
	<b>Total Amount</b>			<b>Rs.</b>	
	<b>GST on Item 11</b>			<b>Rs.</b>	
	<b>TOTAL OF PART-B</b>			<b>Rs.</b>	

**Note: The quantities indicated are tentative and it is bidders' responsibility (who is awarded with the tender) to order the required quantities of above material after taking actual measurements at site.**

**The payment will be made based on actual measured quantities and on finished product of installation at work site.**



**OPTION II – FOR VRF**

**S/I/T/C OF VRF TYPE HI-WALL MOUNTING SPLIT A.C. UNITS FOR M.P. HALL AT  
NIA PUNE 411045.**

**Schedule of Quantities - AIR CONDITIONING SYSTEM**

Sr. No.	Item Description	Qty	Unit	Rate Rs.	Amount Rs.
<b>PART A – SITC</b>					
1	Supply of VRF AC Equipments 10 HP VRF AC Unit with 3 Nos of Hi-Wall Indoor Units.				
	10 HP VRF Outdoor Unit Flexi Outdoor Unit, suitable for the Power Supply of 415+/-5% V / 50 Hz / Three Phase.	3	Nos.		
	Indoor Unit – 2.5/2.8 TR Hi-Wall Indoor Unit suitable for the Power Supply of 230V/50 Hz/ Single Phase.	9	Nos.		
2	Installation, Testing and Commissioning of above Indoor and Outdoor Units with complete accessories required for both the units. The rate should include Nitrogen Pressure Testing, Vacuuming & Commissioning of the System with additional topping up of gas if required in each unit. [ 1 – 10 HP Outdoor and 3 – 2.5 TR Indoor Units will be considered as 1 set]	3	Sets		
3	Supply, installation, testing and commissioning of refrigerant piping using eddy current free Copper pipes and fittings like elbows, couplers, tee joints, brass fittings, "U" loops, expansion loops etc. Insulation of pipes using 13 mm thick up to 19 mm Cu Pipe & 19 mm thick above 19 mm Cu pipe Nitrile rubber insulation, structural clamps with hard PVC pipe sleeves under the clamps to protect insulation at supports. Please note suction & discharge line of copper piping will be treated as one length only.	100	RMT		
4	Supply, installation, testing and commissioning of required Refnet Joints	6	Nos		

	required for Gas and Liquid Line Piping.				
5	Supply, installation, testing and commissioning of required size and type communication cable from IDU to ODU	120	RMT		
6	Supply, installation, testing and commissioning of required size power cable from nearest 1 phase socket to Indoor Unit.	30	RMT		
7	Supply, installation, testing and commissioning of required size power cable from nearest 3 phase socket to Outdoor Unit.	30	RMT		
8	Supply, installation, testing and commissioning of 25/32/40 mm dia PVC rigid condensate drain water piping with necessary clamps, supports, hangers and fitting such as bend, tees, reducers etc. duly insulated with 6 mm thick chemically cross-linked closed cell polyethylene foam. complete on wall / beam / ceiling on surface including providing of U trap at the bottom.	45	Mtrs		
9	Supply and fixing of suitable size M.S. Stand for mounting of Outdoor Units on terrace/ wall. M.S. stand to be painted with red oxide & enamel paint. The height of M.S. stand should be minimum of 250 mm from floor level for terrace / wall.	3	Nos		
10	Supply and fixing of 150 x 50 mm, 18 SWG G.I. HOT dip / Powder Coated Perforated Type Cable Tray with coupler plates and hardware for laying refrigerant piping, control cabling and drainpipes etc.	75	RMT		
11	Dismantling 3 Units of 7.5TR Furred IN ACs consisting of 3 Outdoor Units, 9 Indoor Units, refrigerant piping, power cabling, drain piping, wooden boxing and fibre glass cover arrangement, SA/RA Grills and M.S. stands and structure etc. and handing over to NIA with acknowledgement by storing them at one location near M.P. Hall	Job	L.S.		
	<b>Total Amount</b>			<b>Rs.</b>	

	<b>GST on Item 1</b>			<b>%</b>	
	<b>GST on Item 2 to 11</b>			<b>%</b>	
	<b>TOTAL OF PART- A</b>			<b>Rs.</b>	
<b>PART - B, CAMC FOR 3 YEARS</b>					
12	Comprehensive maintenance contract (All parts repairs / replacement inclusive) for HI-Wall Mount Split ACs and Outdoor VRF Units along with spare parts & labour including all types of taxes (but excluding GST) for the period of 3 years. The CAMC will be in force after completion of guarantee period of one year. The rates mentioned should be per machine of 10 H.P. Outdoor and 2.5TR x 1 Indoor units per year.				
	First Year	Job	L.S.		
	Second Year	Job	L.S.		
	Third Year	Job	L.S.		
	<b>Total Amount</b>			Rs.	
	<b>GST on Item 11</b>			Rs.	
	<b>TOTAL OF PART-B</b>			Rs.	

**Note: The quantities indicated are tentative and it is bidders' responsibility (who is awarded with the tender) to order the required quantities of above material after taking actual measurements at site.**

**The payment will be made based on actual measured quantities and on finished product of installation at work site.**