



IIT PALAKKAD

**Indian Institute of Technology Palakkad**  
**भारतीय प्रौद्योगिकी संस्थान पालक्काड**

Nurturing Minds For a Better World

**NOTICE INVITING TENDER FOR**

**NAME OF WORK: SITC OF AIR CONDITIONING SYSTEM IN C06 BUILDING AT SAHYADRI CAMPUS KANJIKODE BY MAINLY DISMANTLING THE EXISTING VRF AND DUCTABLE AC SYSTEM AND CONNECTED ACCESSORIES FROM AHALIA CAMPUS, KOZHIPARA**

Sl. No.	Events	Date and Time
1	Notice Inviting BID (NIT) No.	17/IITPKD/EWD/ELE/2023-24/054
2	Date of Publication	11-01-2024
3	Date / Time of closing	24-01-2024, 1500 hrs
4	Opening of Bids	24-01-2024, 1530 hrs
5	Estimated Cost put to bid	Rs.40,37,849/-
6	Earnest Money Deposit (EMD)	Rs.80,757/-

Engineering works Division  
Indian Institute of Technology Palakkad (Nila  
Campus) Near Gramalakshmi Mudralayam,  
Kanjikode West, Palakkad – 678 623-  
Email: [ewd-@iitpkd.ac.in](mailto:ewd-@iitpkd.ac.in)

## 1. GENERAL

- 1.1. Indian Institute of Technology Palakkad (hereinafter called "IITPKD") invites online Tenders under Two-Bid System as per the specifications given in Annexure-I.
- 1.2. The tender documents may be downloaded from <https://mhrd.euniwizarde.com/>. Last date/time for submission of the bids in ONLINE mode is **24-01-2024, 1500 hours**. The bids will be opened by the duly constituted Committee or The Chairman, Engineering Works Department, through online mode. The technical bids will be opened and examined by a technical committee or Engineering Works Department, which will decide the suitability of the bid as per the specifications and requirements of IITPKD. Only those who qualify in the technical evaluation will be graduated to the opening of financial bids. In case of any holiday or unforeseen closure of the institute on the scheduled day of opening of the bids, the bids will be opened on the next working day at the same time, but the deadline for submission of bids remains the same as indicated above.
- 1.3. The bids shall be submitted online in MHRD Portal (<http://mhrd.euniwizarde.com/>)
- 1.4. The responsibility of submission of the bids on or before the last date shall rest with the tenderer.
- 1.5. Canvassing or offer of an advantage or any other inducement by any person with a view to influencing acceptance of a bid is an offense under Laws of India. Such action will result in the rejection of the bid, in addition to other punitive measures.
- 1.6. Each tenderer shall submit only one bid. **The bidder shall be authorized dealer of M/s.Bluestar since the major part of the items are Bluestar make and existing comprehensive maintenance needs to be continued.**
- 1.7. The bidder shall bear all costs associated with the preparation and submission of his bid and IITPKD shall in no case be responsible or liable for those costs, regardless of the conduct or outcome of the tender process.
- 1.8. The Tender Document is not transferable. The bidder shall make a copy of the tender document before submitting the same to the concerned office.
- 1.9. IITPKD will respond to any request for clarification or modification of the Tender Document that is received up to FIVE (05) days prior to the deadline for submission of bids prescribed by IITPKD. For this purpose, the prospective bidder(s) requiring clarification in the Tender Document shall notify IITPKD in writing at the address mentioned. Any such clarification, together with all details on which the clarification had been sought, will be published in the website.
- 1.10. Except for any such written clarification by the Institute, which is expressly stated to be an addendum to the tender document issued by the Chairman, EWD, IIT Palakkad, no written or oral communication, presentation or explanation by any other employee of any of the Sections/Departments of the Institute, shall be taken to bind or fetter the Institute.
- 1.11. **EARNEST MONEY DEPOSIT (EMD)**
- 1.12. The bidder shall furnish EMD of **Rs.80,757/- (Rupees Eighty Thousand Seven Hundred and Fifty Seven only)** through an online payment gateway in the E-Wizard.
- 1.13. Bids not uploaded by EMD shall be DISQUALIFIED
- 1.14. EMD of the successful bidder shall be returned on receipt of the prescribed Performance Security and after signing of the contract agreement.
- 1.15. EMD of the unsuccessful bidders will be returned to them at the earliest after expiry of the final bid validity and latest by the 30th day after the award of the contract.
- 1.16. EMD shall be forfeited
  - a. if the bidder withdraws his bid during the period of validity of the tender.
  - b. if the successful bidder refuses or neglects to execute the contract or fails to furnish the required Performance Security within the time frame specified by the Institute.
- 1.17. c. if the successful bidder fails to execute the Contract on specified timeline  
The firms who are registered with National Small Industries Corporation (NSIC) / or Small Scale Industrial (SSI)/ Micro & Small Enterprises (MSMEs) are exempted from furnishing the EMD. Self attested photocopy of valid registration certificate issued by competent

authority for “**Air conditioning equipment**” to be uploaded with the technical bid for exemption of EMD.

## **2. ADDENDUM IN THE TENDER DOCUMENT**

- 2.1. At any time prior to the deadline for submission of bids, IITPKD may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the Tender Document by way of addendum(s).
- 2.2. Addendum will be intimated through the MHRD portal and the bidders shall ensure that the addendums are carried out in the bid before submission. The addendums will not be published in newspapers. Bidders should regularly visit the MHRD portal to keep themselves updated.
- 2.3. No extension in the bid due date/ time shall be considered on account of delay in submission of bid.

## **2.4. COMPOSITION OF THE TENDER DOCUMENT**

The Tender Document comprises of:

- (a) Instruction to the bidders including terms and conditions
  - (b) Schedule of Quantity (Annexure-I)
  - (c) Techno-Commercial Parameters (Annexure-II)
  - (d) Compliance Statement (Annexure-III)
  - (e) Format of Performance Security (Annexure-IV)
  - (f) Declaration (Annexure-V)
  - (g) Fall clause notice certificate (Annexure-VI)
  - (h) Format for Self Declaration (Annexure - VII)
- 2.5. The bidder is expected to examine all instructions, forms, terms and conditions in the bid Document. In the event of discovery of any missing pages, the bidder shall inform the same to the Section/ Department concerned. Failure to furnish the information required by the Tender Document or submission of a tender not substantially responsive to the bid Document in every respect will be at the bidder’s risk and may result in rejection of the bid.
  - 2.6. The bidder shall not make or cause to be made any alteration, erasure or obliteration to the text of the Tender Document.

## **3. LANGUAGE/FORMAT/SIGNING OF THE BID**

- 3.1. The bid prepared by the Bidder and all correspondence and documents related to the tender exchanged by the Bidder and IITPKD shall be in English and the Contract shall be construed and interpreted in accordance with that language. If any of the brochures, leaflets or communication is prepared in any language other than English, a translation of such document, correspondence or communication shall also be provided at the cost and risk of the bidder. The translation so provided shall prevail in matters of interpretation. The bidder, with respect to such documents, correspondence and communications, shall bear the costs and risks of such translation.
- 3.2. The documents comprising the bid shall be typed or written in indelible ink and all the pages shall be signed by the bidder or a person or persons authorized by the bidder. All the pages of the bid shall be numbered and except for unamendable printed, shall be signed by the person or persons authorized.
- 3.3. The bid shall not contain any internalizations, erasures, overwriting, except to correct errors made by the bidder, in which case the person or persons signing the bid shall initial such corrections with date.

## **4. DOCUMENTS COMPRISING THE BID**

- i. The Bids shall be submitted online through E-wizard portal (<https://mhrd.euniwizarde.com/>)
- ii. Bids submitted in any mode other than ONLINE will be rejected outright.
- iii. The bidder must have a registered office in Karnataka/Tamil Nadu/Telangana/Andhra Pradesh or Kerala. Certificate of registration for the offices to be provided.
- iv. The Agency must **be M/s.Bluestar or its authorized dealer**. Copy of the **valid dealership certificate** must be uploaded in .

- v. Documents establishing conformity of the terms and conditions of the Tender Document shall be provided along with the bid. The offer/bids should be sent only for a system or item that is available in the market and supplied to a number of customers. Bids for a prototype machine will not be accepted.
- vi. Compliance or Confirmation report with reference to the specifications and other terms and conditions should also be obtained from the principal.
- vii. Information related to the agency/bidder such as photocopies of the Registration/PAN/GST/TIN shall be furnished.
- viii. No prices should be included in the technical bid. Financial Bid should indicate item-wise prices for the items mentioned in the technical bid.
- ix. Bidders, who are bidding for this NIT shall, Digitally signed tender documents should be uploaded in Cover One.

## **5. BID PRICES**

- i. Prices must be quoted separately for each item identified.
- ii. Price quoted for the item must include all costs associated with packing, transportation, insurance, delivery of material, loading and unloading including installation testing and commissioning.**
- iii. Rate shall be inclusive of GST and shall not be added separately.
- iv. Prices quoted by the bidder shall be fixed during the validity of the bid.

## **6. BID CURRENCY**

- 6.1. Prices of the items shall be quoted in Indian Rupees.

## **6.2 CONFORMITY OF THE TENDER DOCUMENT**

- i. The bid document consisting of specifications, the schedule of quantities of various items to be executed and the terms and conditions of the contract and other necessary documents except Standard General Conditions of Contract can be seen in the tender document
- ii. The documentary evidence of conformity of the item to the Tender Document may be in the form of written descriptions supported by literature/diagrams/certifications, including:
- iii. A detailed description of the essential technical, functional and performance characteristics of the material that the Bidder is proposing to construct;
- iv. Technical details of the major sub items /subsystems/components of the item;

## **7. PERIOD OF VALIDITY OF BIDS**

Bids shall remain valid for a period of 90 days after the date of deadline for submission of bids prescribed by the Institute.

## **8. MODIFICATION AND WITHDRAWAL OF BIDS**

- i. The Bidder may modify or withdraw the bid after submission only through ONLINE mode,
- ii. within the period of deadline for submission of bids.
- iii. No bids can be modified subsequent to the deadline for submission of Bids.
- iv. No bids can be withdrawn in the interval between the bid submission deadline and the expiration of the bid validity period.

## **9. OPENING AND EXAMINATION OF BIDS**

- i. The bids will be opened on the prescribed date and time as mentioned in the Bid document in ONLINE mode.
- ii. The Institute will evaluate the bids. Those bids, whose qualification in the prequalification criteria will be considered for evaluation of financial bids. Those bids which are found to be either non-responsive, not satisfying the requirements or both will not be considered for opening their financial bids and will be rejected.
- iii. The Institute will examine the bids to determine whether they are complete, whether any computational errors have been made, whether required security has been furnished, whether the documents have been properly signed and whether the bids are generally in order.
- iv. Arithmetical errors will be rectified on the following basis. If there is a discrepancy

between the unit price and the total price, which is obtained by multiplying the unit price and quantity, or between subtotals and the total price, the unit or subtotal price shall prevail and the total price shall be corrected. If there is a discrepancy between words and figures, the amount in words shall prevail.

- v. The Institute may waive any minor non-conformity or irregularity in a bid that does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any Bidder.
- vi. Prior to the detailed evaluation, the Institute will determine whether each bid is complete and is substantially responsive to the Tender Document. For purposes of this determination, a substantially responsive bid is one that conforms to all the terms, conditions and specifications of the Tender Document without material deviations, exceptions, objections, conditionality or reservations. A material deviation, exception, objection, conditionality, or reservation is:
  - a. One that limits in any substantial way the scope, quality, or performance of the item; OR
  - b. One that limits, in any substantial way that is inconsistent with the Tender Document, the Institute rights or the successful Bidder's obligations under the Contract;
  - c. One that the acceptance of which would unfairly affect the competitive position of other Bidders who have submitted substantially responsive bids.
- vii. If a bid is not substantially responsive, it shall be rejected by the Institute and may not subsequently be made responsive by the Bidder by correction of the non-conformity.
- viii. The Institute determination of bid responsiveness will be based on the contents of the bid itself and any written clarifications submitted by the Bidder.

#### **10. CLARIFICATION OF BIDS**

During the bid evaluation, the Institute may, at its discretion, ask the Bidder for a clarification of its bid. The request for clarification and the response shall be through ONLINE mode ONLY and no change in the price or substance of the bid shall be sought, offered or permitted.

#### **11. EVALUATION OF RESPONSIVE BIDS**

The Institute will evaluate the bids that have been determined to be substantially responsive.

#### **12. CONTACTING THE PURCHASER**

From the time of bid opening to the time of Contract award, if any Bidder wishes to contact the Institute on any matter related to the bid, it shall do so in writing.

If a Bidder tries to directly influence the officials or otherwise interfere in the bid evaluation process and the Contract award decision, his bid shall be rejected.

#### **13. AWARD CRITERIA**

The Institute will award the Contract to the Bidder, whose bid has been determined to be substantially responsive for technical bid and evaluated as the lowest quote.

The Institute reserves the right to buy different items/quantities from different bidders considering price of individual/group of item or any other factors as decided by the Committee.

#### **14. INSTITUTE RIGHT TO ACCEPT/REJECT BIDS**

The Institute reserves the right to accept or reject any bid or to annul the bidding process and reject all bids at any time prior to Contract award, without thereby incurring any liability to the Bidders.

The Institute reserves the right to negotiate with the Bidder, whose bid has been evaluated as the lowest quote.

#### **15. AWARD OF WORK**

Prior to the expiration of the period of bid validity, the institute will issue the Letter of Intent Work/Purchase Order to the successful Bidder in writing. The Work Order will constitute the foundation of the Contract.

#### **16. CONTRACT AGREEMENT**

Within fifteen (15) days of receipt of the work Order, the successful Bidder shall sign and date its copy on each page and return it to the Chairman EWD, along with the Performance

Security. Copy of Purchase Order duly signed and dated by the successful Bidder on each page shall constitute the Contract Agreement.

#### **17. PERFORMANCE SECURITY**

Within fifteen (15) days of receipt of notification of award from the Chairman EWD, the successful Bidder shall furnish the performance security equal to 3% of the Contract value. The Performance Security shall be valid all along the warranty period and shall extend upto sixty (60) days after the date of completion of warranty period.

The performance security shall be a bank guarantee (in the format as provided in (in the format as provided in Annexure-VI of the bidding documents) issued by any Scheduled Bank in India acceptable to the Purchaser or a Demand Draft favoring, INDIAN INSTITUTE OF TECHNOLOGY PALAKKAD payable at PALAKKAD. The performance security shall automatically become null and void once all the obligations of the contractor under the Contract have been fulfilled, including, but not limited to, any obligations during the Warranty Period and any extensions to the period. The performance security shall be returned to the bidder not later than fifteen (15) days after its expiration.

#### **18. CONTRACT DOCUMENTS**

All documents forming part of the Contract (and all parts of these documents) are intended to be correlative, complementary and mutually explanatory. The Contract shall be read as a whole.

The order of precedence of the Contract documents shall be as follows:

- a. Contract Agreement
- b. All other Forms
- c. Hardware and their requirements contractor's Bid
- d. Tender Document

#### **19. AMENDMENT TO CONTRACT**

No amendment or other variation of the Contract shall be effective unless it is in writing, is dated, expressly refers to the Contract and is signed by a duly authorized representative of each party to the Contract.

#### **20 . CONTRACTORS RESPONSIBILITIES**

The contractor's obligations involve:

- SITC of items mentioned in the schedule of work. The work shall be carried out as per CPWD specifications
- The contractor shall, unless specifically excluded in the Contract, perform all such work all such items, services and materials not specifically mentioned in the Contract but that can be reasonably inferred from the Contract as being required for installation, commissioning, integration and validation of item as if such work and/or items and materials were expressly mentioned in the Contract.
- The contractor shall comply with all laws in force in India. The laws will include all national, provincial, municipal or other laws that affect the performance of the Contract and are binding upon the contractor. The contractor shall indemnify and hold harmless, the Purchaser from and against any and all liabilities, damages, claims, fines, penalties and expenses of whatever nature, arising or resulting from the violation of such laws by the contractor.

#### **21. TIME FOR SUPPLY, INSTALLATION, COMMISSIONING AND VALIDATION OF THE ITEM**

The agency shall complete the work within the period specified in the tender document i.e. within **45 days** from the date of issue work order of signing the work order or within the period mutually agreed between Institute and contractor.

In the event of failure of supply of the item within the stipulated delivery schedule, the Institute has all the right to purchase the item from other sources on the total risk of the contractor under the risk purchase clause.

#### **22. TERMS OF PAYMENT**

No Advance payment will be made for purchase. Each RA (running account) bill will be allowed provided the value of work is more than 25% of value of work. Final payment will be released

after satisfactory delivery, acceptance, installation, commissioning, integration and validation of the item and against the installation report/work completion certification by the concerned engineer in charge/Chairman EWD.

### **23. TAXES AND DUTIES**

The contractor should ensure payment of all taxes, GST duties, levies and charges assessed by all municipal, state or national government authorities, in connection with the Goods and Services supplied under the Contract. Nothing extra shall be paid on any account. Rates quoted shall be inclusive of taxes and duties.

### **24. PENALTIES**

If the contractor fails to complete any of the activities in accordance with the time specified for it, or any extension of the time granted by the Institute.

The Institute reserves the right to terminate the contract if the contractor defaults on any of the time limits by more than 45 days.

### **25. DEFECT LIABILITY**

The contractor warrants that the item, including all subassemblies and components provided, shall be free from defects in the design, engineering/manufacturing, workmanship and performance that prevent the item and/or any of its subassemblies and components from fulfilling the requirements or that limit in a material fashion the operation, reliability, accuracy, sensitivity and precision of the item, its subassemblies and components. Commercial warranty provisions of products supplied under the Contract shall apply to the extent that they do not conflict with the provisions of this Contract.

The warranty period of **12 MONTHS** shall commence from the date of validation/installation of the equipment and hardware and shall extend for the length of time specified in the tender document.

If during the warranty period any defect found in the equipment, the contractor shall promptly, at its sole cost, repair or otherwise make good such defect as well as any damage to the equipment/hardware caused by such defect. Any defective equipment, subassembly or component that has been replaced by the contractor shall become the property of the contractor and the new substituted/replaced material in good condition shall become the property of the Institute.

Any defects are such major repair carried out in the material during the warranty period should suitably be replaced with the desired satisfaction of the institute

If the contractor did not address the defects within the time frame or without proper response in communication, then the Institute has its rights to repair the same and recover repairing expenses from the retention.

**However warranty is not applicable to the equipment that is shifted and refixed.**

### **26. WARRANTY AND INDEMNITY**

The agency hereby shall indemnify and hold harmless the Institute from and against any and/or losses, liabilities and costs (including losses, liabilities and cost incurred in defending a claim alleging such a liability), the Institute may suffer because of any infringement or alleged infringement of any Intellectual Property Rights.

The offer should clearly specify the warranty or guarantee period for the items. Any extended warranty offers from the same shall be mentioned separately.

### **27.EFFECT OF FORCE MAJEURE**

If the agency is prevented, hindered, or delayed from or in performing any of its obligations under the Contract by an event of Force Majeure, then it shall notify the Institute in writing of the occurrence of such event and the circumstances of the event of Force Majeure within fifteen (15) days after the occurrence of such event. The contractor, when affected by the event of Force Majeure shall use reasonable efforts to mitigate the effect of the event of Force Majeure upon its performance of the Contract and to fulfill its obligations under the Contract, but without prejudice to Institute right to terminate the Contract.

No delay or non-performance by the contractor caused by the occurrence of any event of Force Majeure shall:

Constitute a default or breach of the Contract.

Give rise to any claim for damages or additional cost or expense occasioned by the delay or non-performance.

If the performance of the Contract is substantially prevented, hindered, or delayed for a single period of more than THIRTY days or an aggregate period of more than SIXTY days on account of one or more events of Force Majeure, the institute shall have the right to terminate the Contract by giving a notice to the contractor.

**28. EXTENSION OF TIME LIMITS FOR SUPPLY AND MAKING OPERATIONAL, THE ITEM**

The time limit for supply, installation & commissioning, integration & validation shall be extended if the work is delayed or impeded in the performance of any of its obligations under the Contract by reason of any of the following:

Any occurrence of Force Majeure.

Any other matter specifically mentioned in the Contract.

By such period as shall be fair and reasonable in all the circumstances and as shall fairly reflect the delay or impediment sustained by the contractor.

**29. ASSIGNMENT**

The agency shall not assign to any third party of the awarded Contract or any part thereof without the prior written consent of the Institute

**30. GOVERNING LAW**

The Contract shall be governed by and interpreted in accordance with the laws of India.

**31. SETTLEMENT OF DISPUTES**

Any dispute or claim arising out of/relating to this Contract or the breach, termination or the invalidity thereof, shall be settled by the Hon'ble Courts of Justice at Palakkad.

The page number should be marked in all pages serially (including all supporting documents enclosed with the tender document) and the declaration for the same shall be submitted by the bidder as in Annexure-VII.

IITPKD reserves the right to accept or reject any or all the tenders in part or whole or may cancel the tender at its sole discretion without assigning any reason whatsoever. No further correspondence in this regard will be entertained.



## ANNEXURE – I

### SCHEDULE OF QUANTITY

SI No.	Description	Qty	Unit
<b>SH1</b>	<b>VRF AC UNITS WORK AT GROUND FLOOR AT C-6 BLOCK</b>		
<b>A</b>	<b>Dismantling and refixing of following items:</b>		
1	Dismantling of existing 5 nos. 14HP outdoor units from Ahalia Campus, loading, transporting, unloading and reinstalling the same in the existing platform on the back side of C06 building at Sahyadri Campus including providing new rubber pad for vibration isolation etc. as required. (Make: Bluestar)	1	Job
2	Removing the following indoor units from various rooms of Academic block at Ahalia Campus including copper pipe, drainage pipe etc., loading, transporting, unloading, refixing the units in various labs in the ground floor of C06 building at Sahyadri campus (Make: Bluestar)		
2.1	Casette units - 3TR -	3	nos.
2.2	Casette units - 2TR -	2	nos.
2.3	High wall units - 2TR -	12	nos.
3	Fixing of suitable various size copper pipes removed under item no. 02, providing 19mm thick nitrile rubber insulation class 1 on the same for connecting the indoor units.	100	mtr
<b>B</b>	<b>ADDITIONAL NEW ITEMS:</b>		
4	VRF Indoor units : 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 of 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: Portable with item no. 1 & 2)		
4.1	3.2 TR Four Way Cassette Unit with remotes	6	Nos
4.2	2.0 TR Four Way Cassette Unit with remotes	2	Nos
4.3	Refnets to copper piping for connecting to indoor unit	7	Nos
5	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, necessary accessories like bend, tee and reducer etc, suspended from the ceiling with G.I. suspenders including G.I. bolts and nuts, etc. complete as required.		

5.1	450 mm width X 50 mm depth X 2.0 mm thickness	14	Rmt
5.2	200 mm width X 50 mm depth X 1.6 mm thickness	55	Rmt
	<b>REFRIGERANT PIPE</b>		
6	<p>Supply, Installation, testing and commissioning of following nominal sizes of soft/hard drawn copper refrigerant piping for VRV/VRF system, complete with fittings, with suitable adjustable ring type hanger supports, jointing/brazing including accessories, insulated with XPLE Class-O tubular insulation/with Class-O closed cell elastometric 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 &amp; Piping Circuit should be with Minimum Number of joints, which shall be attained by :</p> <p>(i) Using One End Expanded Tubes</p> <p>(ii) Bending the tubes instead of using elbow joints wherever 90 degree bending is required.</p> <p>(2) Piping should be routed at site in such a manner, that brazed joints in the refrigeration piping are kept to a minimum.</p> <p>(3) The makes of tube fittings shall be same as that of tubes.</p> <p>(4) The thickness of fittings used shall be same as that of the pipe.</p>		
6.1	41.27 mm dia (OD) (Hard drawn) with tube thickness 1.62 mm with 19 mm thick insulation	20	Rmt
6.2	34.9 mm dia (OD) (Hard drawn) with tube thickness 1.62 mm with 19 mm thick insulation	20	Rmt
6.3	28.58 mm dia (OD) (Hard drawn) with tube thickness 1.2 mm with 19 mm thick insulation	70	Rmt
6.4	22.2 mm dia (OD) (Hard drawn) with tube thickness 1.2 mm with 19 mm thick insulation	60	Rmt
6.5	19 mm dia (OD) (Hard drawn) with tube thickness 1.2 mm with 19 mm thick insulation	85	Rmt
6.6	12.7 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick insulation	85	Rmt
6.7	15.86 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick insulation	100	Rmt
6.8	9.5 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick insulation	100	Rmt
7	Vaccumistion, pressure testing and filling of R410A Refrigerant gas about 45kg	1	job
	<b>ELECTRICAL CONTROL CABLING</b>		
8	Supply, installation, testing and commissioning of Control Cabling between condensing unit and evaporative units for all types of Air Conditioning Units as above 0.75 x 2 core Shielded cable	420	Rmt
	<b>PVC INSULATED CONDENSATE DRAIN PIPING</b>		





9	Supply, installation, testing and commissioning of Drain piping insulated with 9mm thick nitrile rubber insulation of closed cell elastomeric with density not less than 80kg/m <sup>3</sup> for all types of Air Conditioning units as above	85	Rmt
	<b>GI DUCTING</b>		
10	Supply, installation and testing of factory fabricated sheet metal ducting complete with flanges in accordance with the approved shop drawings as per SMACNA standards. (for fresh air)		
10.1	Thickness 0.6 mm sheet	90	Sqm
11	Supply and fixing of fresh air fan having capacity 2470 CFM in the existing duct for providing to various labs and rooms	1	no.
12	Spray painting of fresh air ducting 2 coat of primer and 2 coat of paint matching with the ceiling etc. as required.	90	Sqm
13	Supply and fixing of powder coated extruded aluminium supply/return air grills with louvers but without volume control dampers complete as required in varioud labs and classrooms	2	sqm
<b>SH2</b>	<b>DUCTABLE SPLIT AC UNIT WORK FOR FIRST FLOOR AT C-6 BLOCK, MODIFICATION IN D03 (CIF lab) &amp; A01 studio classroom</b>		
<b>A</b>	<b>Dismantling and refixing of following items:</b>		
14	Dismantling of existing indoor & outdoor units of ductable split AC units including copper pipes from Ahalia Campus, loading, transporting, unloading and reinstalling the same on the existing platform on the terrace floor of C06 building at Sahyadri Campus (Makes: Bluestar - 4 nos., Hitachi -1 no., Daikin - 1 no., Voltas - 1 no.)		
14.1	11.0 TR Ductable Split Unit	4	each
14.2	8.5 TR Ductable Split Unit	3	each
15	Dismantling of the existing isowall enclosures of indoor unit of ductable split AC units, transporting, loading and unloading and refixing as per the new design for fixing the ductable indoor units referred under item no.14 etc as required.	1	job
16	Providing additional isowall panels as required for completing the enclosure of item no. 14 including providing required openings for fresh air etc. as required	1	Job
	<b>REFRIGERANT PIPE</b>		
17	Fixing of suitable various size copper pipes removed under item no. 14, providing 19mm thick nitrile rubber insulation class 1 on the same for connecting the indoor units.	50	rmt

18	Supply, Installation, testing and commissioning of following nominal sizes of soft/hard drawn copper refrigerant piping for VRV/VRF system, complete with fittings, with suitable adjustable ring type hanger supports, jointing/brazing including accessories, insulated with XPLE Class-O tubular insulation/with Class-O closed cell elastometric nitrile rubber tubular sleeves sections of specified thickness as given below for Suction and Liquid lines, all accessories as per specifications etc. as required : NOTE:- 1)The Copper Piping & Piping Circuit should be with Minimum Number of joints, which shall be attained by : (i) Using One End Expanded Tubes (ii) 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.		
18.1	28.58 mm dia (OD) (Hard drawn) with tube thickness 1.2 mm with 19 mm thick insulation	65	Rmt
18.2	15.86 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick insulation	65	Rmt
19	Vaccumistion, pressure testing and filling of Refrigerant gas about 70 kg for ductable system	1	job
20	Providing 63mm dia PVC pipe with accessories for casing the refrigerant pipes exposed outside refered under item no. 17	30	rmt
	<b>PVC INSULATED CONDENSATE DRAIN PIPING</b>		
21	Supply, installation, testing and commissioning of following size Drain piping from indoor unit to water drainage pipe		
21.1	25mm	20	Rmt
21.2	63mm	40	Rmt
22	SITC of PLC based control panel with VFD for automatic control for operating the ductable split AC units refered under item no. 14 depends upon the load requirement.	1	job
	<b>ELECTRICAL CONTROL CABLING</b>		
23	Dismantling various size cables from the existing units, reinstallation, testing and commissioning of the same power and control Cabling between condensing unit and evaporative units for all types of Air Conditioning Units as above 4 core wire (balance left out cable removed shall be handed over to EWD. However the cable from cubicle panel till outdoor unit is not in the scope of work.	1	job
	<b>GI DUCTING</b>		
24	Dismantling of 600mm dia duct with reducer of about 46 mtr and 450mm dia duct of about 32 mtr from temporary campus and reinstalling the same with suitable size support at C06 building and A01 block (extra reducer required will be paid under item 24)	1	job

**ANNEXURE-II**

**TECHNO-COMMERCIAL BID**

(TO BE SUBMITTED ONLY THROUGH ONLINE MODE IN APPROPRIATE FORMAT)

A. Company Profile
Name of the Company/Bidder
Postal Address of the Registered Office
Telephone (Landline) No.
Mobile No.
Email Address (Official)
Name of the CEO/Director
Name(s) of the Partners (if applicable)
Registration No. (Upload supporting document)
Type of Firm (Proprietary/Partnership/Private Ltd./Private/MNC/Cooperative/Govt. Undertaking/Any Other)
Email Address and Contact Number(s) of CEO/Director
Year of Establishment
No. of Years of Operations in India
Location of Offices in India / Abroad
PAN (Upload supporting document)
GST (Upload supporting document)
C. Experience/Credentials
D. Service Support and Availability of Spares in India
Location and Address of Service Centres
Whether the OEM offers any service
Whether the service set up maintains stock of Essential Spares in India
Lead time for Supply of Essential Spares
E. Others
Has the firm ever been debarred/blacklisted by any Govt. Organization/Dept.? If 'yes' the details thereof. Upload (supporting document)
Note: Supporting Documents, wherever asked for, shall be uploaded along with the Bid, without which the Bid shall be rejected outright.

**ANNEXURE-III  
COMPLIANCE  
STATEMENT**  
(Part of Technical Bid)

The vendor shall,

1. Prepare, sign and submit the Compliance Statement of the specification of the item in the format given below along with the technical bid in the company letter head.
2. Submit separate Compliance Statement of specification sheets for each item.
3. Ensure that the component number and heading in the Technical Specifications is clearly mentioned in the document. If there are any deviations from the specifications mentioned by IIT Palakkad, the vendor should clearly indicate the deviations and give reasons for the deviation with proper justification.
4. Provide the technical leaflet/literature/catalogue or any relevant document for all the quoted items to IIT Palakkad. The information provided in the compliance statement without supporting documents will not be considered for the evaluation of the technical bid and will be treated as non-compliance and may lead to the disqualification of the technical bid.
5. Clearly respond to every requirement given in the technical specifications. Lack of clarity may be considered as lack of information and may subsequently lead to disqualification of the technical bid.

Format of Compliance Statement:

Item No.	IIT Palakkad's technical specification of components as given in Annexure-I	Specifications of model/make quoted by the vendor	Vendor's specification complies with IIT Palakkad's technical specification? (YES/ NO)	Deviation, if any, to be indicated in unambiguous terms	Page no. of relevant specification for the quoted model in the technical manual/leaflet





**ANNEXURE-  
DECLARATION**

We hereby undertake that there are \_\_\_\_\_ pages, serially numbered, in the submitted tender including the supporting documents. (Please serially number all the pages including blank page, if any).

We have submitted our principal's exclusive authorization letter which is specific for this tender No. dated \_\_\_\_\_ .

Signature and Seal of the Bidder

## ANNEXURE-VI

### FALL CLAUSE NOTICE CERTIFICATE

**(To Be Submitted Only Through Online Mode in Appropriate Format)**

This is to certify that we have offered the maximum possible discount to you in our Quotation No.\_dated\_(**Please do not reveal the prices here, which will lead to outright rejection of your bid**). The prices charged for the Stores supplied under tender should under no event be higher than lowest prices at which the party sells the items of identical description to any other Govt. organization/PSU"s/Central Govt, /State Govt. Autonomous bodies/Central/state Universities/Central/State Educational Institutions, failing which the "**FALL CLAUSE**" will be applicable. The institute will look into a reasonable past period to ensure this. In case, if the price charged by our firm is found to be more, **IIT Palakkad** will have the right to recover the excess charged amount from the subsequent/unpaid bill of the contractor.

## Annexure VII

### **FORMAT FOR SELF-CERTIFICATION UNDER PREFERENCE TO MAKE IN INDIA** **(TO BE SUBMITTED ONLY THROUGH ONLINE MODE IN APPROPRIATE FORMAT)**

Format for Affidavit of Self-Certification regarding Minimum Local Content in line with "Make in India" Policy vide GoI Order no. P-45021/2/2017-PP (B.E.-II) dated 15.06.2017 (subsequently revised vide orders dated 28.05.2018, 29.05.2019 and 04.06.2020)

Date: \_\_\_\_\_

I/We \_\_\_\_\_ S/o, D/o, W/o, \_\_\_\_\_  
Resident of \_\_\_\_\_

Hereby solemnly affirm and declare as under:

That I will agree to abide by the terms and conditions of the Public Procurement (Preference to Make in India) Order, 2017 (hereinafter PPP-MII order) of Government of India issued vide Notification No:P-45021/2/2017 - BE-II dated 15/06/2017, its revision dated 28/05/2018 and any subsequent modifications/Amendments, if any and

That the local content for all inputs which constitute the said goods/services/works has been verified by me and I am responsible for the correctness of the claims made therein.

<b>Tick (✓) and Fill the Appropriate Category</b>	
<input type="checkbox"/>	I/We _____ [name of the manufacturer] hereby confirm in respect of quoted items(s) that Local Content is equal to or more than 50% and come under " <b>Class-I Local Supplier</b> " category.
<input type="checkbox"/>	I/We _____ [name of the manufacturer] hereby confirm in respect of quoted items(s) that Local Content is more than 20% but less than 50% and come under " <b>Class-II Local Supplier</b> " category.
<input type="checkbox"/>	I/We _____ [name of the manufacturer] hereby confirm in respect of quoted items(s) that Local Content is less than or equal to 20% come under " <b>Non-Local Supplier</b> " category.

For and on behalf of..... (Name of firm/entity)

Authorized signatory (To be duly authorized by the Board of Directors)

<Insert Name, Designation and Contact No.>

[Note: In case of procurement for a value in excess of Rs. 10 Crores, the bidders shall provide this certificate from statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.]