



**DEPARTMENT OF BIOCHEMISTRY**  
**DST-FIST & UGC-SAP Sponsored Department**  
**UNIVERSITY OF KERALA**



(Established as University of Travancore by the Travancore University act in 1937 and reconstituted as University of Kerala by the Kerala University act of 1957 and presently governed by the Kerala university act of 1974 passed by the Kerala state Legislative assembly No. 3878-F1/72/Law dated 27<sup>th</sup> July 1974 of the government of Kerala)

**(Re – accredited by NAAC with ‘A’ Grade )**

**Kariavattom**

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12-01-2021

## **QUOTATION NOTICE**

Sealed quotations are invited for the supply of **Air Conditioners (2 in Number)** for the Animal House Facility with relevant specifications with on or before **30-01-2021**. The envelopes should be addressed to the **Professor and Head, Department of Bio-Chemistry** with superscription **“Quotation for the supply of Air Conditioners for the Animal house”**. The rate quoted shall be valid for a period of one year. Quotations should also include all the supportive work for installation, loading and unloading of the equipment. Bidders have to note the Appendix I - Technical Specifications and Appendix II - Terms and Conditions and should attach the relevant documents along with the quotation.

**Name of the Equipment:**

**Air Conditioners - 2 in Number**

**APPENDIX I- TECHNICAL SPECIFICATIONS**  
**AIR CONDITIONERS (AC) – (2 in number)**

Sl. No:	Item Description	Qty	Unit	
<b>1.</b>	<b>AIR CONDITIONS (AC)</b>	<b>2</b>		
1	Supply, installation, testing and commissioning the following capacity of wall mounting, high energy efficient, single phase, inverter type, split air conditioner unit (IDU) having 5-star rating, fitted with hermetically sealed compressor (ODU) suitable for eco-friendly and energy efficient refrigerants R-32 / R-410A, conforming to IS: 1391 Part-2 1992 (with latest amendments except power consumption norms) suitable for operation on 230 V, 50 Hz AC supply and capable of performing functions such as cooling, dehumidifying, air circulating, filtering etc and having features of long distance piping flexibility, wide angle air flow, indoor noise level < 43 dB as required. The condensing and evaporating coils should be made of copper tubes (100% copper) and a standard length of 3 metres of soft drawn bright annealed copper refrigerant pipes of suitable sizes should be supplied along with the AC unit for the function of suction and discharge and the copper pipes should be properly insulated with 10 mm thick closed cell Class O elastomeric nitrile rubberised foam sleeve insulation. A standard length of 3 metres of suitable size ISI marked flexible copper control cable for electrically connecting IDU and ODU of AC unit and microprocessor based cordless remote control with required number of suitable batteries should also be supplied along with the AC unit as required. There should be 3 numbers of free service for the AC unit for one year applicable from the date of commissioning. One year replacement warranty should be provided for the entire AC unit along with the PCB and ten years exclusive warranty should be provided for the compressor. (Make- Panasonic, Voltas, Carrier, Bluestar or Daikin)			
a	1-Ton split type inverter AC. (5-star rated)	2	Nos	
2	Supply and providing extra length of superior quality soft drawn bright annealed copper refrigerant pipes (suction and discharge) of suitable sizes for extending the refrigerant piping between ODU and IDU of the AC unit and properly insulating the copper pipes with 10 mm thick closed cell Class O elastomeric nitrile rubberised foam sleeve insulation including brazing, pressure check, leak testing etc as required.	2	Metre	
a	3 core 4.00 sq. mm copper conductor round flexible cable.			
3	Supply and drawing the following sizes of multi-core PVC insulated & FRLS PVC sheathed 650/1100 V grade copper conductor round flexible cables conforming to IS 694 part I 1960 in the existing surface / recess conduit for electrically connecting IDU and ODU of the AC unit as required including giving necessary connections of the following sizes.			
a	3 core 4.00 sq. mm copper conductor round flexible cable.	2	Metre	
4.	Supply and fixing good quality of factory made powder coated MS frames (wall mounting brackets) using required numbers of suitable size anchor bolts for mounting the out door unit of AC in position along with anti vibration pads as required.	2	sets	
5.	Supply, installation, testing and commissioning of wall mounting type 4 kVA voltage stabilizer with input voltage range of 170 V - 270 V having features of high power efficiency, intelligent time delay system, Low & High voltage cut-off protection, built-in thermal overload protection, LED indications etc suitable for single phase 1-Ton air conditioner unit. <b>Warranty- Five years.</b> (Make: V-Guard, Crompton or Microtek)	2	Nos	
6.	Supply and Fixing the following modular switches & accessories in the existing front plates and giving necessary connections as required (RoHS compliant			
a	16A 3-pin plug top.	2	Nos	

## APPENDIX II- TERMS AND CONDITIONS

1. Separate tender along with separate sets of all necessary documents should be submitted for each instrument. The main envelop should be superscribed: "TENDER FOR SUPPLY OF ..... (ENTER NAME OF EQUIPMENT). Last date of submission ....." The date of Opening of Technical Bid and Financial Bid is indicated above.
2. For those bidders submitting tenders for more than one instrument, separate applications for each instrument (Tender Bid and Financial Bid) must be placed in individual sealed envelopes and these envelopes must be placed inside a bigger envelope. Only one model can be quoted in a tender. If the tenderer wants to quote for more than one model separate tenders should be submitted. If more than one model is quoted in a single tender it will be summarily rejected.
3. The tenders received late, without required documents or incomplete in any respect / misleading will be summarily rejected.
4. The proposals shall be submitted in two parts, viz. **Technical bid and Financial bid in two separate sealed envelopes** (with respective marking superscribed in bold). The first envelope (envelope 1) marked "**Technical bid**" should include the technical specifications. The first envelope should not contain any cost information whatsoever. The second envelope (envelope 2) marked "**Financial bid**" should contain the detailed price offer in prescribed format. Both the sealed envelopes Technical bid and Financial bid should be placed in a bigger sealed cover. The top of cover must also contain Name and Address of the tenderer, telephone and other contact details for further correspondence. The financial bids of only technically acceptable offers will be opened for further evaluation and ranking before awarding the contract.
5. The Bidder should be a manufacturer or their dealer specifically authorized by the manufacturer to quote on their behalf for this tender. Certificate to this effect should be included in the quotation.
6. The models quoted should be in successful operation for at least one year as on the date of Bid opening.
7. Prices are to be quoted **FOR DESTINATION (Department of Biochemistry, University of Kerala, Kariavattom)**. The prices quoted should clearly indicate the following charges: Price of the equipment; Price of optional accessories if any; Customs duty (after submission of custom and excise exemption certificate); Customs Clearance Charges and transportation charges. If these details are not provided it will be considered that the price quoted is inclusive of all charges.
8. The quotation submitted shall remain valid at least for 90 days from the date of opening the quotation. Validity beyond three months from the date of opening of the quotation shall be by mutual consent.
9. The manufacturer /supplier should provide training to the laboratory personnel in the installation, operation and maintenance of the instruments.
10. Complete technical details of pre-installation requirements should be furnished along with the technical bid. Vendors are expected to supply all other installation accessories, infrastructures, facilities and services required for successful installation and smooth operation of the equipment. Vendors may conduct the site survey before installation at no additional cost.

11. The supplier should be fully equipped to render us after sale service during warranty and thereafter.
12. The University of Kerala reserves the right to accept or reject any or all quotations without assigning any reason thereof. In case of any dispute the decision of the University Authority shall be final.
13. Minimum warranty of 3 years should be quoted with main system. The supplier should provide comprehensive warranty for three years for all components without any additional cost to the purchaser from the date of satisfactory commissioning of equipment. All equipments must be covered with comprehensive warranty as specified in technical specifications.
14. Users list of the specified model to be attached from institutional research centers within Kerala with performance certificate from at least two users.
15. Suppliers with service centers in South India, preferably in Kerala shall be an added advantage.

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**Professor & Head**