

**Department of Biochemistry**  
**University of Kerala**  
**Kariavattom, Thiruvananthapuram, Kerala 695 581**

Date: 8<sup>th</sup> November 2021

BCH/UOK/Plan/NBL/VV13/2021

Sealed quotations are invited from the reputed firms/ manufactures/distributors for the supply of **Inverter AC (2 ton & 1 ton)** with relevant specifications with on or before 24 November 2021 at 4.00 PM. Sealed quotations should be addressed to **Principal Investigator, Setting up of neurobiology lab – Department of Biochemistry (Plan Fund), Department of Biochemistry, University of Kerala, Thiruvananthapuram - 695581** with superscription "**Quotation for the supply of Inverter AC**". The quotation will be opened on 25 November 2021 at 3 PM in the presence of such tenderers or their authorized representatives who may be present at that time.

**Technical Parameters**

<b>Technology of AC</b>	<b>Inverter AC (Variable Speed)</b>	<b>Inverter AC (Variable Speed)</b>
Nominal cooling capacity (Ton) (1 ton =12000BTU)	2.0 Ton	1.0 Ton
Eco-Friendly Refrigerant	Yes	Yes
Refrigerant Type	R32	R32

Compressor Type	High EER Twin Rotary-BLDC	High EER Twin Rotary-BLDC
Coil Material (Evaporator)	Copper	Copper
Coil Material (Condenser)	Copper	Copper
<b>Performance</b>		
BEE Star Rating	5	5
Rated Cooling Capacity in Watt (W) as per BEE star label	6100	3500
Rated ISEER value (Wh/Wh) as per BEE star label	minimum-5	minimum-5
<b>General Parameters</b>		
Input Power Supply	230 V AC (+/- 10%), 50 Hz AC	230 V AC (+/- 10%), 50 Hz AC
Connecting Pipe length (meter) with properly insulated with 10 mm thick closed cell Class 'O' elastomeric nitrile rubberized foam sleeve insulation in weather proof teflon tape	3 Mtr	5 Mtr
Material of Air Filter	Synthetic Fiber	Synthetic Fiber
Reusable Air Filter	Yes	Yes
Noise Level	As per IS:1391 Latest	As per IS:1391 Latest
<b>General Features</b>		
AC Modes	Turbo Mode, Dehumidification Mode, Power Saving Mode, Auto Clean Mode, Self Diagnosis Mode	Turbo Mode, Dehumidification Mode, Power Saving Mode, Auto Clean Mode, Self Diagnosis Mode
Remote Control Features	Timer, Child Lock, Night Glow	Timer, Child Lock, Night Glow

	Buttons	Buttons
Additional Features	Anti Bacteria Filter, Sleep, Auto Off, Auto Restart, Indoor Temperature Indicator, Dust Filter, Auto Air Swing, Virus Deactivation Technology	Anti Bacteria Filter, Sleep, Auto Off, Auto Restart, Indoor Temperature Indicator, Dust Filter, Auto Air Swing, Virus Deactivation Technology
Mandatory Marking	Manufacturer Name, Address, Model, Size, Type, Name and Quality of refrigerant, Rated Voltage, Phase, Rated Frequency, Nominal Cooling Capacity, Power Consumption at rated conditions, Nominal Current at rated conditions, Month and Batch of Manufacture	Manufacturer Name, Address, Model, Size, Type, Name and Quality of refrigerant, Rated Voltage, Phase, Rated Frequency, Nominal Cooling Capacity, Power Consumption at rated conditions, Nominal Current at rated conditions, Month and Batch of Manufacture
<b>Accessories</b>		
Accessories inclusive in the scope of Power Supply	Installation Kit, 2 No. remote Cell, Manual, Remote	Installation Kit, 2 No. remote Cell, Manual, Remote
ODU Mounting Stand	Power Coated ODU Mounting Stand	Power Coated ODU Mounting Stand
<b>Warranty/ Service</b>		
AC Machine Warranty	2 year	2 year
Compressor Warranty	10 year	10 year
<b>Installation</b>		

Installation	Standard Installation	Standard Installation
Free Services	As per OEM Standards	As per OEM Standards
<b>Standards</b>		
Conformity to Indian Standard	As Per IS 1391 (Latest) part 2 for Room Air Conditioners	As Per IS 1391 (Latest) part 2 for Room Air Conditioners
Conformity to other Standards	IEC 60335-2-40	IEC 60335-2-40
Availability of BIS Certification	Yes	Yes
Green Room Air Conditioner Compliant	Green AC -	Green AC -
Company Certification	ISO 14001 (EMS- Environmental Management System)	ISO 14001 (EMS- Environmental Management System)
Additional Work Required	Fixing of Voltage Stabilizer, Masonry work for piping, Additional drain pipe, Additional copper pipe, Additional wire, Grill cutting / Core cutting	Fixing of Voltage Stabilizer, Masonry work for piping, Additional drain pipe, Additional copper pipe, Additional wire, Grill cutting / Core cutting
Supply and providing 25 mm PVC pipe on wall as drain pipe for AC unit with all required accessories including cutting and making good walls, colour washing etc. as required.	20 m	22 m
Connecting pipe length (meter) with properly insulated with 10 mm thick closed cell Class 'O' elastomeric nitrile rubberized foam sleeve insulation in weather proof teflon tape and top up of gas as per site requirement	3 m	3 m
Jointless ISI mark multi-core PVC insulated FRLS round flexible copper control cable for electrically connecting IDU and ODU for AC un	8m	12m
Preferred Brands	Carrier / Panasonic/ Mitsubishi/Blue Star/Daikin	Carrier / Panasonic/ Mitsubishi/Blue Star/Daikin

Stabilizer	Supply, Installation, Testing and Commissioning of wall mounting type 4 kVA voltage stabilizer with input voltage range of 170 V - 270 V and having features of High power efficiency, intelligent time telling system, low & high voltage cut-off protection, built-in thermal overload protection, LED indications etc. suitable for single phase 2- Ton Air conditioner unit with three years warranty and three months replacement guarantee. (Make: V-Guard, V-Stab, Pioneer, Crompton or Microtek)	Supply, Installation, Testing and Commissioning of wall mounting type 4 kVA voltage stabilizer with input voltage range of 170 V - 270 V and having features of High power efficiency, intelligent time telling system, low & high voltage cut-off protection, built-in thermal overload protection, LED indications etc. suitable for single phase 2-Ton Air conditioner unit with three years warranty and three months replacement guarantee. (Make: V-Guard, V-Stab, Pioneer, Crompton or Microtek)
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### Terms and conditions

1. The prices quoted should be that applicable for educations institutions (5% GST)
3. The firm should extend service within 24 hours.
4. Prices are to be quoted FOR DESTINATION (Department of Biochemistry, University of Kerala, Kariavattom). The prices quoted should clearly indicate the 4 following charges: Price of the equipment including taxes; Price of optional accessories if any; Customs duty if any (after submission of custom and excise exemption certificate); Customs Clearance Charges, transportation charges and installation charges etc. If these details are not provided it will be considered that the price quoted is inclusive of all charges.
5. Technical Bid and Financial Bid must be placed in individual sealed envelopes and these envelopes must be placed inside a bigger envelope.

6. 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 single tender it will be summarily rejected.
7. Performance Certificate of the specified model should be attached along with the quotations.
8. The undersigned reserves have the right to reject any or all of the tenders received without assigning any reason thereof.
9. If any of the components is found to be defective during the warranty period, the vendor has to replace the defective item immediately at their own cost.
10. **Supplier authorization letter and specification compliance sheet to be provided along with the quotation.**
11. Quotations should also include all the supportive work for installation, loading and unloading of the equipment.
12. The interested bidders shall submit their best possible offer before last date to the undersigned.
13. Should be a certified company which has provided at least 5 installations of products within or outside India
14. The rate quoted shall be valid for a period of one year.