

**DEPARTMENT OF BIOCHEMISTRY**

**UNIVERSITY OF KERALA**

***QUOTATION NOTICE***

December 29, 2021

BCH/VV/NBL/Non-Plan (1) 2021-22

Sealed competitive quotations are invited from reputed firms for the supply of one inverter air conditioners (No. 1) for installation in the Preparation Room, Animal House of Department of Biochemistry, University of Kerala, Kariavattom, Thiruvananthapuram. The air conditioner should comply with the directions of the engineering wing that the air conditioners should be energy efficient, BEE 5 Star equipments operating on R32 refrigerants with copper condenser and evaporator coils, 2 year machine warranty and 10 year warranty for compressor along with stabilizer. Separate technical and financial bids along with compliance sheet shall be addressed in the name of **Dr. Viji Vijayan, Principal Investigator, Setting Up of Neurobiology Lab – Department of Biochemistry (Non-Plan Fund 2021), Department of Biochemistry, University of Kerala** and should reach not later than 03.00 PM on 21<sup>st</sup> January 2022. Quotations will be opened on 24<sup>th</sup> January 2022 in presence of the suppliers or their authorized agents.

<b>Technical Parameters</b>	
Technology of AC	Inverter AC (Variable Speed)
Nominal cooling capacity (Ton) (1 ton =12000BTU)	2.0 Ton
Eco-Friendly Refrigerant	Yes
Refrigerant Type	R32
Compressor Type	High EER Twin Rotary-BLDC
Coil Material (Evaporator)	Copper
Coil Material (Condenser)	Copper
<b>Performance</b>	
BEE Star Rating	5
Rated Cooling Capacity in Watt (W) as per BEE star label	6100
Rated ISEER value (Wh/Wh) as per BEE star label	minimum-5
<b>General Parameters</b>	
Input Power Supply	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
Material of Air Filter	Synthetic Fiber
Reusable Air Filter	Yes
Noise Level	As per IS:1391 Latest
<b>General Features</b>	
AC Modes	Turbo Mode, Dehumidification Mode, Power Saving Mode, Auto Clean Mode, Self Diagnosis Mode
Remote Control Features	Timer, Child Lock, Night Glow Buttons
Additional Features	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
<b>Accessories</b>	
Accessories inclusive in the scope of Power Supply	Installation Kit, 2 No. remote Cell, Manual, Remote
ODU Mounting Stand	Power Coated ODU Mounting Stand
<b>Warranty/ Service</b>	
AC Machine Warranty	2 year
Compressor Warranty	10 year
<b>Installation</b>	
Installation	Standard Installation
Free Services	As per OEM Standards
<b>Standards</b>	
Conformity to Indian Standard	As Per IS 1391 (Latest) part 2 for Room Air Conditioners
Conformity to other Standards	IEC 60335-2-40
Availability of BIS Certification	Yes
Green Room Air Conditioner Compliant	Green AC -
Company Certification	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
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
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

Jointless ISI mark multi-core PVC insulated FRLS round flexible copper control cable for electrically connecting IDU and ODU for AC un	8m
Preferred Brands	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)

**Sd/-**

**Dr. Viji Vijayan**

**Principal Investigator**

**Setting Up of Neurobiology Lab**

**Department of Biochemistry**

**University of Kerala, Kariavattom Campus**

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