

UNIVERSITY OF KERALA

ENGINEERING UNIT, KARIAVATTOM

Tender Schedule for Air Conditioning Works for Setting up of Office for NACC Directorate in the First Floor of IQAC Building at SH Campus, Palayam(Item Rate)

Sl. No	Item Description	Qty	Unit	Rate / Unit	Rate in Words	Amount
1	od117999/2021_2022 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 with 5years warranty suitable for single phase 1.5-Ton air conditioner unit. (Make: V-Guard, Crompton or Microtek)	2	E			

2	<p>od118000/2021_2022</p> <p>Supply, installation, testing and commissioning of 1.5-Ton, 5-star rated, inverter type, wall mounting, high energy efficient, split air conditioner unit (IDU), fitted with hermetically sealed rotary compressor (ODU)suitable for eco-friendly and energy efficient refrigerant R-32A conforming to IS: 1391 Part-2 1992 (with latest amendments except power onsumption norms) suitable for operation on 230 V, 50 Hz AC supplyand capable of performing functions such as cooling, dehumidifying, air circulating, filtering etc andhaving features of long distance piping lexibility, wide angle air flow, IDU noise level < 43 dB (A) andODU noise level < 56 dB (A) as per norms. The condensing and evaporating coils should be made of softdrawn bright annealed 100% copper tubes of suitable sizes and a standard length of upto 3 etresshould be supplied with the AC unit and the copper pipes should be properly insulated with 10 mm thickclosed cell Class 'O' elastomeric nitrile rubberised foam sleeve insulation. A standard length of upto 3metres of suitable size ISI marked multi-core PVC insulated FRLS round flexible copper control cable forelectrically connecting IDU and ODU of AC unit and microprocessor based wireless remote controller with required number of suitable batteries should be supplied along with the AC unit. Total 3 numbers of comprehensive free services should be provided for the AC unit (IDU & ODU) for the first one year,applicable from the date of commissioning. One year warranty should be provided for the entire AC unit(IDU & ODU) and nine years exclusive warranty for the compressor. Make: Voltas,Carrier, Panasonic,Blue Star or Daikin.</p>	2	E			
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3	od118006/2021_2022 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 trilerubberised foam sleeve insulation and the joints sealed with black cotton tape with proper mechanicalfixing including brazing, pressure check, leak testing etc as required	4	m			
4	od118006/2021_2022 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 trilerubberised foam sleeve insulation and the joints sealed with black cotton tape with proper mechanicalfixing including brazing, pressure check, leak testing etc as required	5	m			
5	od118010/2021_2022 Supply and fixing good quality of factory made powder coated MS frames (condensor stand) with all required accessories including suitable size anchor bolts, anti vibration pads etc for mounting the outdoor unit of AC in position as required	2	set			
TOTAL						

PAC Rs 87,648.00 (Rupees Eighty Seven Thousand Six Hundred and Fourty Eight Only)

I/We agreed to execute the work at quoted rates.

CONTRACTOR

sd/-
UNIVERSITY ENGINEER