

SCHEDULE

UNIVERSITY OF KERALA						
SUBDIVISION I KARIAVATTOM						
TENDER SCHEDULE FOR REPLACING THREE NUMBERS OF 2 TR RATED AIR-CONDITIONERS IN THE SYNDICATE ROOM AT SH CAMPUS , PALAYAM,THIRUVANANTHAPURAM.						
Sl. No	Item Description	Qty	Unit	Rate / Unit	Rate in Words	Amount
1 Air Conditioning						
1)	od272631/2021_2022 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 as control cable for connecting IDU and ODU of the AC unit with necessary supports and PVC conduits including giving connections etc complete as required. 3-core 2.50 sq. mm 	30	meter	211.16	Two Hundred and Eleven Rupees Sixteen Paise Only	6334.80
2)	od272632/2021_2022 Supply of virigin R32 gas at site for top up	6	Kg	822.25	Eight Hundred and Twenty Two Rupees Twenty Five Paise Oinly	4933.50
3)	od272633/2021_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 nitrile rubberised foam sleeve insulation and the joints, the pipes should be wound with teflon tapes with proper mechanical fixing including brazing, pressure check, leak testing etc as required.	6	meter	1203.16	One Thousand Two Hundred and Three Rupees Sixteen Paise Only	7218.96
4)	od272634/2021_2022 Supply, installation, testing and commissioning of wall mounting type 5 kVA voltage stabilizer, Conforming to IS:8448 latest standards with input voltage single Phase Sine wave (120V-280v) and OutputSingle Phase sine wave (210V-250V) Overall efficiency of ALVC (%)> / = 95% having Copper Windings, 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 2-Ton air conditioner unit with three years warranty and three months replacement guarantee. (Make: V-Guard VDI, Microtek – Smart, Crompton)	4	No	4490.36	Four Thousand Four Hundred and Ninety Rupees Thirty Six Paise Only	17961.44

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5)	<p>od272635/2021_2022 Supply, installation, testing and commissioning of 2-Ton (1TR=3616W/12000BTU/h) ,BEE 5-star rated,ISEER minimum 5 or Higher, wall mounting, high energy efficient, split air conditioner unit (IDU), fitted with hermetically sealed BLDC DUAL INVERTER TYPE compressor (ODU) suitable for eco-friendly and energy efficient refrigerant R-32A 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, IDU noise level < 43 dB (A) and ODU noise level < 56 dB (A) as per norms. The condensing and evaporating coils should be made copper with protective coating. The ODU & IDU should be interconnected by soft drawn bright annealed 100% copper tubes of suitable sizes and a standard length of upto 3 metres should be supplied with the AC unit 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 upto 3 metres of suitable size ISI marked multi-core PVC insulated FRLS round flexible copper control cable for electrically 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.
AC Modes Turbo Mode,Power Saving Mode,Self Diagnosis Mode,Dry Mode, Anti Bacteria Filter,Sleep,Auto Restart,Auto Air Swing Remote Control Features Timer,Child Lock,Night Glow Buttons
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), two year replacement guarantee for PCB and five warranty.Ten years exclusive warranty for the compressor.
Make- Series: Carrier- EMPERIA NXI /Daikin-FTFKR60TV/Panasonic- CS/CUQU26WKY/Blue Star- EBTU
/Mitsubishi- MSY-GN/Hitachi -KIYORA
</p>	3	No	60447.45	Sixty Thousand Four Hundred and Fourty Seven Rupees Fourty Five Paise Only	181342.35
6)	<p>od272637/2021_2022 Providing and fixing Powder Coated M.S. structural support for condensing unit with vibration isolator pad in-between support and structure and vibration isolation suspender and pads for evaporating units</p>	6	each	750.00	Seven Hundred and Fifty Rupees Only	4500.00

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7)	od28834/2022_2023 CORE Cutting in RCC Beams or Side walls of thickness upto 50cm at height above 3 meters on floor level above ground floor using extra labour for carrying, setting up scaffolding, dismantling of machines and for making holes in circular shape having diameter 30 mm to 100 mm using core cutting tool, including removal of debris, cleaning of location as per engineer's direction. The rate is inclusive of tools and drilling bits . Minimum rate for drilling a single hole	1	each	3193.20	Three Thousand One Hundred and Ninety Three Rupees Twenty Paise Only	3193.20
8)	od29063/2022_2023 Charges for additional making additional holes using CORE Cutting in RCC Beams or Side walls of thickness upto 50cm at height above 3 meters on floor level above ground floor using extra labour for carrying, setting up scaffolding, dismantling of machines and for making holes in circular shape having diameter 30 mm to 100 mm using core cutting tool, including removal of debris, cleaning of location as per engineer's direction. The rate is inclusive of tools and drilling bits . Minimum rate for drilling a single hole excluding rate in od115_P220216/2021_2022	2	each	304.55	Three Hundred and Four Rupees Fifty Five Paise Only	609.10
TOTAL:						226093.35
GRAND TOTAL after round off:						226093.00

(Rupees Two Lakh Twenty Six Thousand and Ninety Three only)

.....agree to undertake the above mentioned work:-

- 1) At the estimate rate.
- 2) At% below the estimate rate.
- 3) At% above the estimate rate.

Rate should be quoted both in figures and words

CONTRACTOR

ASSISTANT EXECUTIVE ENGINEER I