

Schedule

UNIVERSITY OF KERALA						
SUBDIVISION I,KARIAVATTOM						
TENDER SCHEDULE – DEPARTMENT OF BOTANY- IMPLEMENTATION OF THE SPECIFIC PROJECT TITLED “CENTER FOR BIODIVERSITY CONSERVATION AND ESTABLISHMENT OF GENE BANK FOR WILD ORNAMENTAL PLANTS FOR WESTERN GHATS OF KERALA” SUPPLY ,INSTALLATION,TESTING &COMMISSIONING OF SEVEN AIR CONDITIONERS IN THE TISSUE CULTURE ROOM						
Sl. No	Item Description	Qty	Unit	Rate / Unit	Rate in Words	Amount
1 SITC OF AC AT BOTANY DEPARTMENT						
1	<p>od346049/2020_2021</p> <p>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 as per BEE, fitted with hermetically sealed rotary compressor (ODU) suitable for eco-friendly and energy efficient refrigerants R-32A / 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, IDU noise level < 43 dB (A) and ODU noise level < 56 dB (A) as required. The condensing and evaporating coils should be made of copper tubes (100% copper) and a standard length of upto 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 upto 3 metres of suitable size ISI marked 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 also be supplied along with the AC unit as required. There should be 3 numbers of comprehensive free service for the AC unit (IDU & ODU) for one year, applicable from the date of commissioning. One year replacement warranty should be provided for the entire AC unit along with two years exclusive warranty for PCB (Make- Legrand, OBO Betterman, MK India or Clipsan) and ten years exclusive warranty for the compressor. (Make- Panasonic, Voltas, Carrier, Mitsubishi, Blue Star or Daikin).
1.5-Ton 5-star split type inverter AC unit.</p>	5	each	54573.39	Fifty Four Thousand Five Hundred and Seventy Three Rupees Thirty Nine paise only	272866.95

Schedule

2	<p>od346050/2020_2021 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 as per BEE, fitted with hermetically sealed rotary compressor (ODU) suitable for eco-friendly and energy efficient refrigerants R-32A / 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, IDU noise level < 43 dB (A) and ODU noise level < 56 dB (A) as required. The condensing and evaporating coils should be made of copper tubes (100% copper) and a standard length of upto 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 upto 3 metres of suitable size ISI marked 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 also be supplied along with the AC unit as required. There should be 3 numbers of comprehensive free service for the AC unit (IDU & ODU) for one year, applicable from the date of commissioning. One year replacement warranty should be provided for the entire AC unit along with two years exclusive warranty for PCB (Make- Legrand, OBO Betterman, MK India or Clipsan) and ten years exclusive warranty for the compressor. (Make- Panasonic, Voltas, Carrier, Mitsubishi, Blue Star or Daikin).
2-Ton 5-star split type inverter AC unit.</p>	2	each	67030.48	Sixty Seven Thousand and Thirty Rupees Fourty Eight Paise only	134060.96
3	<p>od346281/2020_2021 Supply and providing extra length of soft drawn bright annealed copper refrigerant pipes of suitable size for extending the refrigerant piping between ODU and IDU of AC unit including properly insulating the pipes with 10 mm thick closed cell Class O elastomeric nitrile rubberised foam sleeve insulation, brazing, leak testing etc and also supplying ISI marked multi-core copper conductor round flexible cable including giving connections as required.
</p>	15	meter	884.99	Eight Hundred and Eighty Four Rupees Ninety Nine Paise only	13274.85

Schedule

4	od346282/2020_2021 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	12	meter	103.01	One Hundred and Three Rupees One Paisa only	1236.12
5	od346053/2020_2021 Supply and providing 25 mm PVC pipe on wall as drain pipe for AC unit with all required accessories including cutting and making good the walls, colour washing etc as required.	15	meter	73.01	Seventy Three Rupees One Paisa only	1095.15
6	od346054/2020_2021 Supply, installation, testing and commissioning of wall mounting type 5 kVA voltage stabilizer with input voltage range of 170 V - 270 V and 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 2-Ton air conditioner unit with three years warranty and three months replacement guarantee. (Make: V-Guard, V-Stab, Pioneer, Crompton or Microtek)	2	each	3336.17	Three Thousand Three Hundred and Thirty Six Rupees Seventeen Paisa only	6672.34
7	od346055/2020_2021 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 delay system, Low & High voltage cut-off protection, built-in thermal overload protection, LED indications etc suitable for single phase 1-Ton / 1.5-Ton air conditioner unit with three years warranty and three months replacement guarantee. (Make: V-Guard, V-Stab, Pioneer, Crompton or Microtek)	5	each	2726.38	Two Thousand Seven Hundred and Twenty Six Rupees Thirty Eight Paisa only	13631.90

Schedule

8	90.10.3.23 Supply and Fixing the following modular switches & accessories in the existing front plates and giving necessary connections as required (RoHS compliant)16A 3 pin plug top	7	each	122.85	One Hundred and Twenty Two Rupees Eighty Five Paise only	859.95
Total						443698.22
GRAND TOTAL after round off:						443698.00

(Rupees Four lakh Fourty Three Thousand Six hundred and Ninety Eight only)

I / We 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