

Quotation Notice No. IRTC/ P / 09 /2024 – 25 Dated 05 – 02 – 2024

Quotations are invited from the manufactures/authorised distributors/Agencies for the supply of the following items/ completion of the works for the implementing the project under Plan Grant 2024 – 25. Quotation should be sent to the following address: Registrar, IRTC, Mundur, Palakkad, Kerala – 678592, Phone 2832663, 2832324, 9188183296.

Last Date of submission : 12 – 02 – 2025, 5 pm.

Sl. No.	Name of the Item	Specification	Quantity
1	BOD incubator (Temperature controlled)	<p>Construction : Double walled construction Insulation : 3" Thick PUF Insulation Air Circulation : Motorized Blower at back side of the chamber Blower motor : 1/12 HP, TEFC , F-class insulation, Single phase, 1440 RPM, 230 Volts Heating System : High quality S.S. Tubular Heaters. Observation Door : Full view observation Acrylic Door / Glass Door with gasket to observe sample inside the chamber. Refrigeration system : By means of CFC Free R 134 A for better cooling with time delay to safe guard compressor system. Validation Port : 50 mm validation port hole with Silicon rubber seal to insert sensors for validation. Lighting : Interior illumination for working area. Wheels : Fiber/PU Wheel with front lockable for easy movement. MCB : MCB for electrical safety. Trays : Adjustable tray height arrangements. Supply 230V AC, Single Phase, 50Hz Capacity in Liters : 100 Internal size : H x W x D (cm) : 50 x 50 x 40</p>	1
2	Water Bath	<p>Double walled construction, outer made of MS duly powder coated and inner chamber with Top Lid made of SS. The gap between the walls insulated with glass wool and supplied without thermometer. Fitted with Micro processor based Digital Temperature Controller Cum Indicator (LED) (instead of Thermostat) and working temperature from ambient +5°C to 80°C having an accuracy of +/-1°C. Inner dimension 330mmx300mmx175 Volume 18 L</p>	1

3	Hot plate with stirrer	The body fabricated with MS sheet duly powder coated having SS top housing series of Magnetic Stirrers are most compact models. Apparatus utilizing the rotating magnetic field from a balanced permanent magnet [Stirring speed - 1200RPM [approx] to induce variable stirring action in close or open non magnetic containers, With hot plate and temperature is controlled by Energy Regulator.	1
4	Muffle furnace	Rectangular electric furnace with light weight and fast heating system, the body made of thick mild steel sheet duly powder coated with iron angles. Working temperature of 11000C, controlled by Micro Processor based Digital Temperature Controller Cum Indicator (LED) fitted with thermal fuse and thermocouple with ceramic wool insulation. Chamber size : 6"x6"x12" KW Usage 3.5	1
5	Hot air oven	Hot Air Ovens with double walled units, Inner chamber made of S.S and outer made of Mild Steel with Powder coating. Gap between the walls filled with glass wool insulation to avoid heat loses. Temperature controlled by Micro processor based Digital Temperature Controller (Instead of thermostat). Temp. range 50°C to 200°C and Accuracy: +-2°C Air Ventilations are placed on top of both sides to remove hot gases/fumes. Fitted with Air Circulation Fan & Digital Timer. Chamber size : 600x600x900mm Wattage 1500 Approx Volume 325 L	1
6	Cylinder and burner system for LAF	5 L LPG Cylinder : 1 Bunsen burner : 1	1
7	Membrane filtration system for microbial studies	Glass filter system (47 mm base) with clamp, filtrate flasks (300,500ml each) Oil-free vacuum pump - vacuum pump with a built in thermal protection device to shut off the pump automatically when overheated and then resume working when the temperature cools down, Vacuum regulator to adjust vacuum, with filter cartridge to filter air. Sufficient pipes to connect the filter system and vacuum pump Filter papers for 100 filtrations	1
8	Desktop computer, Monitor and laser printer with UPS	<u>computer</u> Processor: INTEL CORE I5 12TH Motherboard: GIGABYTE Ram: 16GB, DDR4 HARD DISK : 1TB SSD: 256 GB Cabinet: FINGERS WITH SMPS Monitor: 27 INCH (DELL/SAMSUNG) Keyboard and mouse wireless	1

		<p>Printer Printing Method, Monochrome Laser Beam Printing, Print Speed *1, A4, 29 pages/minute, Letter, 30 pages/minute</p> <p>2-Sided, 18 pages/minute (A4) / 19 pages/minute (Letter), Print Resolution 600 x 600 dpi, Print Quality with Image Refinement Technology 2,400 (equivalent) x 600 dpi</p> <p>UPS Capacity - 600VA</p>	
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[Handwritten Signature]
 Registrar

Registrar
 Integrated Rural Technology Centre
 Mundur, Palakkad - 678 592
 Kerala