



PACHHUNGA UNIVERSITY COLLEGE

(A Constituent College of Mizoram University)

NAAC Accredited A+ & 2025 NIRF Ranking 49th

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No. MZU/PUC/BIOT/ANRF/2026-27/(ANRF/ECRG/2025/002553/LS)

August 14, 2026

LIMITED TENDER NOTICE

Quotations are hereby invited from the reputed suppliers/vendors for the supply of "Climate Controlled Green House", "Biosafety Cabinet", "BOD incubator", "Autoclave", "Seed Germinator incubator" and "Double door convertible refrigerator" with the following specifications;

Items/Specifications	Climate-Controlled Greenhouse	Biosafety cabinet
Size and Structure	Size:40ftx20ftx14ft:10ft(LxWxCH:SH) Total 836 Sqft with Buffer Room Structure 1. GI Pipe:-ISI standard 2. Thickness:-2mm 3. 50mmx50mm. 4. 50mmx25mm. a) GI pipe $\pm$ 2mm ISI standard class B anti-corrosive, dye-based humidity-resistant pipe as approved, for maximum Indian wind load conditions, structural trusses will provide an absolute strength wind load of 110 km/hr b) Buffer room of size 6ft x 6ft for smooth functioning of Control Unit, Buffer room- located on the front side Provision of Exhaust Fan, Light, It consists of main entrance door of 6'6" x3'6" hinge type with 6'6"x3'6" sliding door for entry in the chamber.	Specification: Biosafety Level-2, Class II A2 type. Size: 120X60X60 cm (WxDxH) Vertical flow Biosafety cabinet made of Mild Steel duly Powder Coated/Stainless Steel 304 qlty. Designed to provide an atmosphere free from air borne particles with laminar air flowing downward the work table. An exhaust system may be fitted at bottom and back to throw the air outside the room. With Acrylic glass door & UV Light With cock for gas or vacuum line Operated at 230V
Cladding /Glazing	6mm polycarbonate sheet GE Indolite/Ultralite/PCLite make, double wall, UV stabilized, easy to clean. Partition with 6mm polycarbonate sheet Specification of PC sheet. Thickness:- 6mm multiwall. Warranty:-10years. UV:- Protected. Sheet Structure:- 6/2 RS Approx. weight g /m²1100grm K. value W/mK 3.,5 Fixing:-Aluminum Strip	

	Size:- 2" inch greenhouse Weight:-1.25Kg/12feet Perforated Anti-dust Aluminum tape. Length:-12feet Sound insulation dB:- 18 Impact Performance: -40°C to +120° Cladding (Polycarbonate) Fixing: The polycarbonate sheet will be fixed using aluminum profiles duly anodized All joints will be sealed using silicon sealants.	AC Supply Single Phase 50 Hz.
Nets	Insect Net:40x40UVstabilized Insect mesh will be fixed over the CoolingPad Shade net:- Green, 75 % UV, stabilized shading net with a rollable mechanism (manually operated)would be fixed on the roof of the polycarbonate house.	
Control system	a) 40"Slow axial flow fan-2nos, b) PADS:4" Thick impregnated Cellulous Pads of size 5ft Technical Specifications Celdek Cellulose Pad: 1. Celdek is made of specially impregnated cellulose and treated to provide efficient watts. 2. Paperambientcondition25°C- 45°C 3. Estimated cooling load:101,520BTUs/Hrs. 4. Total water flow7.56LPMpersq. ft.of the top pad surface. Bleed is equal to 10% of the total water rate. 5. Eco friendly. 6. High saturation efficiency, 7. Self-cleaning feature 8. No setting or Shrinkage of product. 9. Low-pressure drop characteristics. 10. Impregnation makes the material stiff and self supporting. 11. Make:-HuTek. c) WATER CIRCULATING SYSTEM FOR PADS: The water circulating system shall comprise all aluminum/GI Frame, Gutter & Cover, 40mm/32mm PVC pipe for Water distribution on the cooling pad to wet the pad thoroughly. d) CONTROL HEAD FOR WATER CIRCULATING SYSTEM FOR PADS :Ball Valves, Flush Valves, Filter,Water Storage Tank of 500Itrs.,Electricity Pump set of 1 HP Crompton / Laxmi/ Kirloskar is sufficient to keep the pads always wet.	
Control panel for greenhouse	MICROPROCESSOR CONTROL PANEL With Mains ON/OFF, Auto/Manual Switches, Light Indicators. Microclimatic Temperature Controller Specifications: Real time microprocessor based PID Controller, 4 digit LED display for displaying measured (14mm,8mm) /displaying settings, soft touch operation, Platinum sensor probe Pt-100, Set point lock within the setting panel to protect setting changes, Level lock to ensure that the parameter can be read but cannot be changed, Sensor failure indication, Display resolution 0.1°.Accuracy $\pm 0.1^{\circ}\text{C}$, Automatic hysteresis is control. Wide selectable temperature ranges from 0 °to	

	100°C, 4.4KVA load can be directly connected to the powered output, Input-200-240 VAC, 50 Hz. Single phase. , Ambient 5°-50°C, RH up to 90%. Microclimatic Humidity Controller Specification: Microprocessor based, On/Off control for Humidifying/ Dehum, Hysteresis / Differential 1% - 9%, Delay timer 0-240 sec, Direct / Reverse selectable, Lock functions to prevent miss operating, Feather touch operation, Fast response sensor-line resistance < 10Ω, Display Accuracy-indicating value $\pm 0.2\% \pm 1$ digit. Plitz/Cyclic Timer for Humidity: Specific for fogging, misting system, controlled by timer. to reduce water logging condition in the Green House each. Specification: 0-999 Min/sec On, 0-999 Min/sec OFF, automatic cycling. Accuracy quartz, Power output can be directly drive misting unit load upto 4.4 KVA, Input 200 V to 240 V.A.C, Phase-Single, 50 Hz, Ambient 4°C to 50°C, RH upto 90%. Cyclic Timer: Drip Irrigation Specification: 0-999 Min/sec On, 0-999 Min/sec OFF, automatic cycling. Accuracy quartz, Power output can be directly drive misting unit load upto 4.4 KVA, Input 200 V to 240 V.A.C, Phase-Single, 50 Hz,	
Misting System	The pipe connection of the PVC pipe is 6kg/sq.m. with an ISI mark with necessary fittings. Nozzles Foggers, filtration types of equipment. It should create 85 -90% humidity inside the chamber. Humidity Inside Chamber 85% accuracy + 3-5% Motor: 1HP mono block pump (Crompton Greaves ISI Make): -1 no. Tank: -500 Itr (ISI Make) Syntax Double layer	
Foundation	Foundation Brickwall: Brick wall of 1' below soil surface & 1' height above the ground surface. The brick wall above the ground surface will be duly plastered. All wires will be of copper and desired load (Make-Polycab Finolex)	
Terms and Conditions:	1. The bidder should be responsible for making proper arrangements for installing the greenhouse and making it functional once it arrives at PUC, Aizawl. 2. The system should be equipped with all accessories for proper & effective functioning (such as power supply cords, drip irrigation, fertilization, etc.) Any upgrades to the system accessories and software within one year from installation should be provided free of cost. 3. <u>Provided with the connectivity issue in North-East India</u>, The bidder should offer an <u>unconditional two-year warranty</u>. A copy of the manufacturer's warranty (not agents) will be included when handing it over. 4. At least 20 extra sets of light bulbs should be included. 5. A server to store the day-to-day parameters of the chambers should be quoted by the bidder and included in the final price.	1. The bidder should be responsible for making proper arrangements for installing the instrument and making it functional once it arrives at PUC, Aizawl. 2. The system should be equipped with all accessories necessary for proper and

6. A branded light meter should be provided to check the intensity of light.
7. The supplier should provide a high-performance branded vacuum cleaner (2000 watts capacity) to clean the greenhouse.
8. Payment (in full) will be made by cheque only after equipment installation.
9. GST must be included (18%GST Included, against DSIR Certificate copy and order).
10. Supply 4-6 weeks after receiving the order.

3. effective functioning (such as power supply cords, stabilizer, etc.).
- Any upgrades to the system accessories and software within one year of installation should be provided free of cost.
4. Provided with the connectivity issue in North-East India, the bidder should offer an unconditional one-year warranty.
5. When handing it over, a copy of the manufacturer's warranty (not agents') will be included.
6. Payment (in full) will be made by cheque only after equipment installation.
7. GST must be included
8. Manufacturer dealership certificate should be submitted with quotation.
9. Supply 4-6 weeks after receiving the order.

Items/Specifications	BOD incubator	Autoclave (Vertical)
Specifications	CONSTRUCTION: Insulation : 75mm puff insulation. Double walled Inner chamber made of Stainless Steel 304 qty. Outer chamber made of Mild Steel and painted in Epoxy Powder coating. 3 nos. of shelves Full view inner acrylic door and Outer metal door with Magnetic Gasket Uniform temp. is provided by 2 nos. air circulating Fan Hermetically sealed compressor (CFC FREE) with a fan cooled condensing coil . OPERATION: Temp. Controlled by Microprocessed based Electronic Digital Temperature Controller cum Indicator from 5°C to 60°C and $\pm 1^\circ\text{C}$. CONTROL PANEL: Provided panel at the top With 3nos. indicators for main heating and cooling With 3 steps Automatic Voltage Stabilizer (Voltage range 150V -280V AC). Electrical safety includes ELCB/MCB Contractor. Size:- 505x415x830mm Cap :- 171 Ltr *Manufacturer dealership certificate should be submitted with quotation.	INSIDE & LID MADE OF STAINLESS STEEL 304 QLTY. OUTER MADE OF MILD STEEL POWDER COATED Lid is made of Stainless Steel Sheet and tightened around by radial locking. Neoprene rubber gasket. Fitted with water level arrangement to indicate water position inside the boiler Pressure gauge, Air/Steam release cock two safety valve are also provided. With pizzostat may be set between 10 to 22 PSI. Immersion type heating element. Cut-off automatically when the autoclave is dry. Supplied complete with S.S. basket, cord and plug Size:- 400x600mm Cap :- 80 ltr.
Terms and Conditions	1. The bidder should be responsible for making proper arrangements for installing the instrument and making it functional once it arrives at PUC, Aizawl. 2. The system should be equipped with all accessories necessary for proper and effective functioning (such as power supply cords, stabilizer, etc.). 3. Any upgrades to the system accessories and software within one year of installation should be provided free of cost. 4. Provided with the connectivity issue in North-East India, the bidder should offer an unconditional one-year warranty. 5. When handing it over, a copy of the manufacturer's warranty (not agents') will be included. 6. Payment (in full) will be made by cheque only after equipment installation. 7. GST must be included 8. Manufacturer dealership certificate should be submitted with quotation.	1. The bidder should be responsible for making proper arrangements for installing the instrument and making it functional once it arrives at PUC, Aizawl. 2. The system should be equipped with all accessories necessary for proper and effective functioning (such as power supply cords, stabilizer, etc.). 3. Any upgrades to the system accessories and software within one year of installation should be provided free of cost. 4. Provided with the connectivity issue in North-East India, the bidder should offer an unconditional one-year warranty. 5. When handing it over, a copy of the manufacturer's warranty (not agents') will be included. 6. Payment (in full) will be made by cheque only after equipment installation. 7. GST must be included 8. Manufacturer dealership

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Items/Specifications	Seed Germinator Incubator	Interconvertible double door refrigerator
Specifications	Inner Chamber made of Galvanized sheet and outer made of mild steel sheet duly finished in power coating. A blower fan has been provided to maintain inner temp uniformly. Trays made of stainless steel ss 304 grade approx.. size 22*22 inch Temp Range 30-40 Degree celsius Capacity :- 150-200 ltr Featured with automatic temperature controller, timer and safety features like mcb.	Frost Free Expert Inverter 2-Door Side by Side or Double door Refrigerator. Capacity : 500-600 litres Twin cool technology. With real time temperature display screen. Separate doors for freezer (-20 deg. C) and fridge (4 deg. C).
Terms and Conditions	1. The bidder should be responsible for making proper arrangements for installing the instrument and making it functional once it arrives at PUC, Aizawl. 2. The system should be equipped with all accessories necessary for proper and effective functioning (such as power supply cords, stabilizer, etc.). 3. Any upgrades to the system accessories and software within one year of installation should be provided free of cost. 4. Provided with the connectivity issue in North-East India, the bidder should offer an unconditional one-year warranty. 5. When handing it over, a copy of the manufacturer's warranty (not agents') will be included. 6. Payment (in full) will be made by cheque only after equipment	1. The bidder should be responsible for making proper arrangements for installing the instrument and making it functional once it arrives at PUC, Aizawl. 2. The system should be equipped with all accessories necessary for proper and effective functioning (such as power supply cords, stabilizer, etc.). 3. Any upgrades to the system accessories and software within one year of installation should be provided free of cost. 4. Provided with the connectivity issue in North-East India, the bidder should offer an unconditional one-year warranty. 5. When handing it over, a copy of the manufacturer's warranty (not agents') will be included.

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The quotation must be emailed to navaneeth.j@pucollege.edu.in or addressed to **Dr Navaneetha Krishnan J (PI-ANRF Project), Department of Biotechnology, Pachhunga University College, Mizoram University, Aizawl-796001.**

The undersigned will receive the quotation by email or post on or before **28-08-2026** at the latest, and it will be opened on the same date at **03:00 pm** in the Department of Biotechnology, Pachhunga University College, Aizawl-796001.


 Principal 14/8/26
(Head of The Institution)

Copy to;

1. Departmental Notice Board
2. ICT cell, Pachhunga University College.
3. Computer Centre, Mizoram University