

PACHHUNGA UNIVERSITY COLLEGE

(A Constituent College of Mizoram University)

NAAC Accredited A+ & 2024 NIRF Ranking 35th

Aizawl – 796001, Mizoram, India

www.pucollege.edu.in

■ - (0389)2322257 Fax - (0389) 2312312 Email: principal@pucollege.edu.in

No. MZU/PUC/BIOT/DBT/2025-26/(BT/PR47930/NER/95/1980) May 02, 2025

LIMITED TENDER NOTICE

Quotations are hereby invited from the reputed suppliers/vendors for the supply of a "Climate Controlled Green House" and "real-time Polymerase Chain Reaction machine" with the following specifications:

Items/Specifications	Climate-Controlled Greenhouse	Real-time PCR
Cladding /Glazing	48ft x 32ft x 14ft: 10ft (L x W x CH: SH) Structure 1. GI Pipe:- ISI standard 2. Thickness:- 2mm 3. 50 mm x 50 mm. 4. 50 mm x 25 mm. a) GI pipe ± 2mm ISI standard class B anti-corrosive, humidity-resistant pipe as approved. For maximum Indian wind load conditions, structural trusses will provide an absolute strength wind load of 120 km/hr. b) Buffer room of size 2m x 2m 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" x 3'6" hinge type with 6'6" x 3'6" sliding door for entry in the chamber. 6mm polycarbonate sheet GE Lexan/Ultralite make, double wall, UV stabilized, easy to clean. Partition with 6mm polycarbonate sheet	analysis 2. microRNA detection, 3. Virus detection, 4. SNP genotypin 5. High-resolution melt analysis
	Specification of PC sheet Thickness:- 6mm multiwall. Warranty:- 10 years. UV:- Protected. Sheet Structure:- 6/2 RS Approx. weight g/m² 1300 grm K. value W/m²K 3,5 Fixing:- Aluminum Strip	(HRM)

	Panel with Delta PLC with surrection the Cooling & Misting.
greenhouse	PANEL: Panel with Delta PLC with sufficient I/O points to control
	The mains ON/ OFF Switch will also provide a control panel facility. (L&T Make), Light Indicator for control panel facility. (L&T Make) Heating CONTROL leading light, Cooling, Humidity, Heating CONTROL
Control panel for	The mains ON/ OFF Switch will also Flight Indicator for
	nads always wet.
	HP Crompton / Laxim/ Kindshin
	SYSTEM FOR PADS: Ball Valves, Plush Valves, System For PADS: Ball Valves, Plush Valves
	d) CONTROL HEAD FOR WATER CHOOSES, Filter, SYSTEM FOR PADS: Ball Valves, Flush Valves, Filter, SYSTEM FOR PADS: Electricity Pump set of 1.5
	distribution on the cooling pad to wet the pad distribution of the pad di
	Frame, Gutter & Cover, 40mm/32mm 1 vo production on the cooling pad to wet the pad thoroughly. distribution on the cooling pad to wat the pad thoroughly. MEAD FOR WATER CIRCULATING
	water circulating system shall comprise an arrange water Frame, Gutter & Cover, 40mm/32mm PVC pipe for Water Frame, 40mm/32mm PVC pipe for Water F
	c) WATER CIRCULATING STSTEM TOXIC TOXIC WATER CIRCULATING STSTEM TOXIC TOXIC WATER ADMINISTRATION OF W
	11. Make: - HuTek (THAILAND). c) WATER CIRCULATING SYSTEM FOR PADS: The
	supporting. 11. Make: - HuTek (THAILAND). 11. Make: - HuTek (THAILAND). The System FOR PADS: The
	- martin a
	9. Low-pressure drop characteristics. 10. Impregnation makes the material stiff and self-
	8. No setting or Shrinkage of product.
	7 Salf cleaning feature
	6. High saturation efficiency,
	5 Eco friendly.
	surface. Bleed is equal to 10% of the total was
	1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m
	a Daman ambient condition 23 C = 73 C
	treated to provide efficient Walls.
	1 Celdek is made of specially impregnated certains
	m 1 1 Connections (PIMPK CEITINGS)
Control system	by DADS: A" Thick impregnated Cellulous Faus of size
Control system	s con Classical flow tan - 700s
	the roof of the polycarbonate nouse.
	rollable mechanism (manually operated) would be trace on
	Cross 75 % IV stabilized shading her with a
Nets	the Capling Pad
Note	Insect Net: 40x 40 UV stabilized Insect mess will be fixed
	···
	direct contact with steel & sheet. All joints will be using
	the most ste incerted between the profile & sheet to a voice
	. Serious and Glas duly anodized & EPDIVI/GEETONES
1	urt C. Ausing
	Cladding (Polycarbonate) Fixing: The polycarbonate sheet
	B 6
	Sound insulation dB:- 18
	Perforated Anti-dust Adminion (aprel) Length :- 12 feet
	Weight:- 1.25 Kg / 12 feet Perforated Anti-dust Aluminum tape.
	Size:- 2" inch
1	Sealing: EPDM gasket

	Panel with Delta HMI for user interface and control. *Both	
	and manual Operations can be handled through	
i e		
	The panel should have appropriate power supplies, circuit	
	oreakers, and wiring to operate safely	
	The panel should have appropriate temperature sensors and	
	control algorithms to maintain the desired temperature in the controlled environment.	
	Alarm generation on HMI	
Misting System	The pipe connection of the PVC pipe is 6kg/sq.m. with an	
	1SI 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:- 1 HP monoblock pump (Crompton Greaves ISI	
	Make) :- Ino.	
	Tank: - 500 ltr (ISI Make)Sintax Double layer	
	Lighting: 5 nos.	
	LED lamps for Buffer Room 1nos.	
	LED lamps for Room 4nos.9)	
Foundation	Foundation Brick wall: Brick wall of 1.5' height below soil	
	surface & 1.5'	
	height above the ground surface. The brick wall above the	
	ground surface will be duly plastered with two coats of	
	exterior cement paints 1) Plinth protection: 1.5' wide 4"	
	thick on four sides of the Green House.	
	All wires will be of copper and desired load (Make-Polycab	
	/Finolex). No	
	looping of electrical wires will be done for proper load	
	distribution. All the electrical operations have independent	
	cables from the control panel.	
Terms and		1. The bidder
Conditions:	arrangements for installing the greenhouse and making	should be
	it functional once it arrives at PUC, Aizawl.	responsible for
	2. The system should be equipped with all accessories for	making proper
	proper & effective functioning (such as power supply	arrangements
4	cords, drip irrigation, fertilization, etc.) Any upgrades to	for installing
	the system accessories and software within one year	the instrument
	from installation should be provided free of cost.	and making it
	3. Provided with the connectivity issue in North-East	functional once
	India, The bidder should offer an unconditional two-	it arrives at
	year warranty . A copy of the manufacturer's warranty	PUC, Aizawl.
	(not agents) will be included when handing it over.	2. The system
	4. At least 20 extra sets of light bulbs should be included.	should be
	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	
	in the final price.	necessary fo
	6. A branded light meter should be provided to check the	
	intensity of light.	effective
		functioning

- 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.
- GST must be included (18%GST Included, against DSIR Certificate copy and order).
- 10. Supply 4-6 weeks after receiving the order.
- (such as power supply cords, stabilizer, and computer with CPU, 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

two-year warranty.

- 5. When handing it over, a copy of the manufacturer's warranty (not agents') will be included.
- 6. A computer system (monitor CPU) must be provided with the machine to observe real-time data.
- supplier 7. The should provide at least 100 plastic ware items compatible the with machine, free of cost, and at least two sets of MXmaster

	A STATE OF THE STA			
1				
			packs	
			Dacks	and
			Pacito	unu
I			D3 1 4	- 1
1			cDNA	1
			UDIAN	
1				
i			synthesis kit.	
			Symulcolo K	IL.
	9	Q	Daymont	(i
	i	σ.	Payment	(in
1	1			
1	1		full) will	be
			iuii) wiii	be I
			made	1
			made	by
1				9
1			cheque	
			cneque	only
1				O AAA J
1			- 64	ı
1			<u>after</u>	- 1
1			WITCH.	- 1
				. 1
1	1		equipment	1 1
	1	1	equipment	• 1
1	1		installation.	
1	1			
			motanation.	
		_	COM	
		9	GST must	t be
		7.	ODI IIIUS	
1			included	
1		l	mended	
1		10	Sunnly	4-6
1		IV.	Supply	4-6
1		l		
l .			weeks	atter
			weeks	after
1		1		
1		1	receiving	the
1		l	receiving	uic
		l		
		1	order.	
1		l	oraer.	

The quotation must be emailed to <u>prashantbotbhu@gmail.com</u> or addressed to Dr Prashant Kumar Singh (PI-DBT Project), Department of Biotechnology, Pachhunga University College, Mizoram University, Aizawl-796001.

The undersigned will receive the quotation by email or post on or before <u>25-05-2025</u> 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

(Head of The Institution)

Principal
Pachhunga University College
Aizawl : Mizoram



Copy to;

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