



NAGALAND UNIVERSITY

(A Central University Estd. By the Act of Parliament No.35 of 1989)

Headquarters : Lumami - 798627

NO.NUL/RDC/PF-82/2018 -

Dated : 9th October, 2018.

NOTICE INVITING TENDER

Nagaland University invites sealed tenders for Supply of Equipments to the Department of Botany, Nagaland University, Lumami under DPT sponsored Twining R & D Project. Interested parties may download the tender documents from the University website: nagalanduniversity.ac.in and submit their quotations along with tender fees of Rs. 1,000/- (non-refundable) in the form of DD in favour of Registrar, Nagaland University, Lumami in sealed envelop superscript on the cover "Tender for supply of Equipments to the Department of Botany, Nagaland University, Lumami under DPT sponsored Twining R & D Project" and addressed to the undersigned on or before 31st October, 2018 up to 4:00. P.M.. No tenders will be accepted beyond this date and time.


(Dr. Abemo)
Registrar

NO.NUL/RDC/PF-82/2018 - 5023

Dated : 9th October, 2018.

Copy to:-

1. The P.A to Registrar for information of the Registrar.
2. The Finance Officer, Nagaland University, Lumami.
- ✓ 3. The System Administrator, NU, Lumami, with a request to upload the NIT in the University website.
4. The Editor, Nagaland Post, Dimapur, with a request for publication in the next daily issue (size 6cm x 8cm). Bills in triplicate should be submitted for payment. It's a one time publication.
5. The Editor, Arihant Advertising Agency, S.R.C.B. Road, Fancy Bazar, Guwahati – 781001 with a request to publish in the Times of India, North East Edition (size 6 cm x 8 cm). Bills in triplicate should be submitted for payment. Its an one time publication.
6. Office copy.


(Dr. Abemo) 09-10-18
Registrar



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₹ 1,000/- (Non refundable)

**TENDER DOCUMENT FOR SUPPLY OF EQUIPMENTS TO THE DEPARTMENT OF
BOTANY, NAGALAND UNIVERSITY, LUMAMI UNDER DPT SPONSORED
TWINING R & D PROJECT**

Name of the Firm : _____

Address : _____

Phone No : _____

Email ID : _____

Sign & Seal



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SUPPLY OF EQUIPMENTS UNDER DBT SPONSORED TWINING R & D PROJECT

Sl. No	Items	Manufacture/ Make	Qty	Price per item	Total
1	96 well Gradient Thermal Cycler with 2 KVA UPS		1 no each		
2	Electrophoresis systems with power pack (4 channel power supply) and accessories (gel caster, gel tray, combs etc.)		1 set		
3	-20 degree C Deep Freezer (Vertical) with stabilizer		1 set		
4	1-10 degree C Laboratory Freezer with stabilizer (625 lits)		1 no		


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TERMS AND CONDITIONS

1. Dealership certificate / Authorization certificate from the Manufacturer should be enclosed.
2. Tax should be clearly indicated.
3. The Rates are **FOR** Nagaland University, Lumami.
4. Bidder should have adequate After Sales Support Infrastructure.
5. EMD of 2% of the total quoted price in the form of DD should be deposited in favour of the Registrar, Nagaland University, Lumami.
6. A self addressed envelop should be enclosed along with the EMD.
7. The University reserves the right to accept or reject the tenders without assigning any reasons thereof and no representation will be accepted.

TERM OF PAYMENT

100% Payment after the receipt, inspection, acceptance of materials and successful installation of all the materials.

WARRANTY

The items should be warranted against defects for a minimum of 1 year from the date of installation. Defective items should be replaced at the cost of supplier.

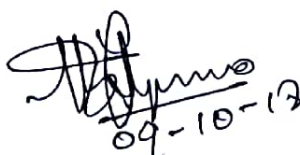
NOTE: *Offers not agreeing with the above terms are liable for rejection.*

Specification of equipments to be purchased from the DBT project 'Diversity and Molecular Characterization of Microsymbiont-Legume Association in Meghalaya and Nagaland for Developing Consortia of Microsymbionts with wide Host Range'


Name of the Equipment	Specification	Quantity
96 well Gradient Thermal Cycler with 2 KVA UPS	<p>Should have a sample capacity of 96x0.2ml tubes, 0.2ml tube strips or 1x96-well plate with Peltier heating and cooling.</p> <p>Should have true gradient capability and have the feature of dynamic ramping (identical hold times) for all the 8 rows of a gradient.</p> <p>Should have the feature of "instant incubation" to keep samples at constant temp for ligation and restriction digests.</p> <p>Should have a temperature differential range of 1-25degC.</p> <p>Should have intuitive 5.7" (14.5 cm) touch screen interface which can displays graphics in high resolution for easy programming.</p> <p>The touch screen should be responsive for both gloved and un gloved fingers.</p> <p>Should be capable of running reaction volumes from 1-100ul.</p> <p>Should have a maximum ramp rate of 4 degC/second with an average ramp rate of 2.5degC.</p> <p>Should have a temperature range of 4-100 deg C</p> <p>Should have a gradient range of 30-100 deg C</p> <p>Should have a temperature accuracy and uniformity of ± 0.5 deg C</p> <p>Should have a memory of >500 programs with further expansion through a USB Flash drive for transfer of files.</p> <p>Should have block and calculated temperature control modes.</p> <p>The software should have exportable Run logs and system error logs</p> <p>Should have quick boot up time of not more than 1 min.</p> <p>System should have built in library of standard protocols for long PCR, fast PCR, reverse transcription PCR etc.</p> <p>Should have power save mode.</p> <p>Quoted model should have at least 50 successful installations in India and the user list should be provided.</p> <p>The System should be supplied with a 2 KVa online UPS with one Hr Back Up</p>	(1 No. each)
Electrophoresis systems with power pack (4 channel power supply) and accessories (gel caster, gel tray, combs etc.)	<ul style="list-style-type: none"> * Wide-format system with 2-3 times the sample capacity as the MSMIDI and MSMINI units. * A comprehensive selection of combs provides full flexibility for preparatory and screening techniques. * Suitable for cloning and mini-prep analysis. * Ideal for restriction fragment analysis, sample prep or checking of high numbers of samples: * Three tray options * Run up to 210 samples * Low buffer volumes 	1 set


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	<p>* Multichannel pipette compatible combs for speed loading</p> <p>Technical Specifications</p> <p>Gel dimensions (w x l): 15 x 7cm, 15 x 10cm, 15 x 15cm, 15 x 20cm, 15 x 25cm</p> <p>Unit dimensions (w x l x h): 17.5 x 26.5 x 9cm, 17.5 x 41 x 9cm (ST models only)</p> <p>Max. sample capacity : 15 x 7cm tray - 70 samples, 15 x 10cm tray - 140 samples, 15 x 15cm tray - 210 samples, 15 x 20cm tray - 280 samples, 15 x 25cm tray - 350 samples</p> <p>Buffer volume: 500ml (Choice) 1000ml (Choice ST)</p> <p>Comb Options</p> <p>No. of samples : 1, 2, 4, 10, 10MC, 12, 14MC, 16, 18MC, 20, 28MC, 30MC, 35</p> <p>Thicknesses : 0.75, 1, 1.5, 2mm</p> <p>The System should be supplied with Three UV Tray of 15 x 7, 15 x 10 & 15 x 15cm UV Tray, 2 x 20 sample, 1mm thick combs, casting dams, loading guides</p> <p>Specification of Power Supply</p> <p>Four pairs of output terminals</p> <p>2.4" TFT-LCD colored screen shows all parameters during operation</p> <p>Timer with alarm function</p> <p>Compact size with stackable case</p> <p>Constant voltage/ current/ power operation mode</p> <p>Typical Running condition helps electrophoresis beginner</p> <p>Wide application for DNA, RNA and protein electrophoresis and blotting</p> <p>Advanced safety device design</p> <p>Universal rated voltage for worldwide distributions</p> <p>Technical Specification:</p> <p>Output Voltage / Inc: 5 - 300V / 1V</p> <p>Output Current / Inc: 1 - 700mA / 1mA</p> <p>Power: 150W</p> <p>Rated Voltage: 100-240V~; 47-60Hz</p> <p>Type of Output: 1. Voltage or Current with automatic crossover</p> <p>2. When target constant mode is set, system automatically adjusts the two other parameter to maximum to allow constant run (later could be changed by user)</p> <p>Program Storage: 30 programmed files</p> <p>Program Multi-Step: Up to 6 steps</p> <p>Editable Program Function: 1. Typical running conditions program</p> <p>2. Manual editable program: Display 2.4" TFT</p> <p>Control: Microprocessor controller</p> <p>Safety Device: No Load detect, Leakage detect, Over temperature protection, Over load detection, Sudden load change detection (could be enabled by proper setting)</p> <p>Shrouded plugs and sockets</p> <p>Timer: Constant: 9999 (min) with alarm/ Continuous</p> <p>Program: 999 (min) with alarm/ Continuous</p> <p>Crossover: Yes</p> <p>Stackable: Yes</p> <p>Automatic Recovery After Power Failure</p> <p>Operating Temperature: 4°C ~ 40°C</p>	
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	Material: PC housing and flame retardant ABS faceplate Dimension: Approx. 8.5"x13.2"x4.1" (215 x 335 x 104 mm) Weight: Light weight (~2 kg)	
-20 degree C Deep Freezer (Vertical) with stabilizer	<p>The System should have Digital micro processor controller Quick freezing function The system should be Frost Free and there should not be any Ice deposit inside. The System should have High temperature visual alarm The System should have Extremely low power consumption -A+ The System should have Power consumption 0.89 units / 24 hrs The System should be tropicalized at 430C The System should have Right hand hinged reversible door The System should have Sealed drawers - prevent frost loss from open door The System should have High hold over time - upto 16 hrs The System should have Environment friendly CFC free refrigerant The System should have Puff installation The System should have Heavy duty condenser suitable for Indian conditions The System should have 7 pull out drawers of multiple size The system should be <u>at least 340-350 litre capacity</u> The Temperature Range should be -16 deg to -24 deg C There should be two rear wheels for easy movement</p>	1 set
1-10 degree C Laboratory Freezer with stabilizer (625 lits)	<p>The System Should be Frost free/Static cooling The System Should Have Forced air cooling • The System Should Have White exterior • The System Should Have Adjustable shelves • The System Should Have Castors • The System Should Have Lock • The System Should Have Environment friendly CFC free refrigerant • The System Should Have Puff installation The System Should be Microprocessor controller with display The System Should Have Visual and Acoustic alarm The System Should Have Adjustable High/Low temperature alarm The System Should Have Door open alarm The System Should be at least 625 lits and Double door</p>	1 No.


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