



राजीव गांधी विश्वविद्यालय  
RAJIV GANDHI UNIVERSITY

भारत के संसद के अधिनियम द्वारा वर्ष 2007 में स्थापित किया गया  
(A CENTRAL UNIVERSITY ESTABLISHED IN 2007 BY AN ACT OF PARLIAMENT OF INDIA)

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No. RGU/UGC/DST/HG-399/2019/142

Dated: 19 June, 2019.

Notice Inviting Limited Tender

Sealed quotations are hereby invited for supply of the following items required for DST sponsored Project entitled "Impact of Climate change on high altitude Himalayan honey bee *Apes laboriosa* Smith and its acclimatization in changing environment" under Dr. Hiren Gogoi, PI, Dept. of Zoology, Rajiv Gandhi University as per details shown below with the following terms and conditions:

Sl. No	Particulars	Technical Specification	Quantity
1.	Hi-Tech Green House	<p><b>HI -TECH GREENHOUSE</b></p> <p><b>Total Area:</b> 50sq.m.</p> <p><b>Dimension:</b> 8m × 6.25m × 3m × 4.2m (L × W × SH: CH)</p> <p><b>Buffer Room</b> with single lockable door</p> <p><b>STRUCTURE:</b> Frame: All galvanized steel is used and design as per IS875 standards to take withstand of wind speed 120 km./hour. End wall and side wall framing Aluminum corner trims, aluminum ridge bar and Galvanized gutter trim Brackets &amp; fasteners as required to assemble frame. (1 Complete Set), Covered with 6mm thick polycarbonate sheet.</p> <p><b>Door:</b> Size: 1.9 m × 0.91 m long &amp; wide, normally lockable made with clear 6mm polycarbonate glazing, top &amp; bottom tracks, jambs, flashings &amp; installation hardware (1 Complete Set).</p> <p><b>CLADDING:</b> Roof, front wall, end wall, &amp; sidewalls of the Greenhouse - sets and double room for rigid covering with 6mm thick polycarbonate sheet, and accessories. (1 Complete Set).</p> <p><b>SHADING SYSTEM:</b> External Shading: 75% agro shade net, with manually rolling arrangement inside the Greenhouse, Internal Shading: by aluminium thermal Screen with motorized rolling arrangement (1 Complete Set).</p> <p><b>FOGGING SYSTEM:</b> Fogging System, pump with screen filter, fogging nozzles, pipes, polymer water tank (1 Complete Set).</p>	<b>01 Complete Set</b>

		<p><b>COOLING SYSTEM:</b> 100 mm thick evaporative CELDEC cooling pad complete with: Water storage Tank (1 Complete Set), with Slow Speed Axial Flow Fan: 36" single speed belt driven exhaust fan 02 Nos. (1 Complete Set).</p> <p><b>LIGHT:</b> Fluorescent Lighting system inside the greenhouse with buffer room for visibility during dark time.</p> <p><b>BENCHING SYSTEM:</b> Size: 10' x 4' (LxW) benches (06 Nos.)</p> <p><b>CONTROL PANEL:</b> For Automation Monitor Panel code no. 002264-00304 -A, which includes, Temperature &amp; Humidity Control System., (1 Complete Set).</p> <p><b>CIVIL WORK:</b> Foundation wall for all sides for Greenhouse along with the double door room. Wide based 1.5' below earth's surface, 1.5' above earth's surface, as kick-board 9'' wide, frame base block height 2', with plinth protection.</p> <p><b>Floor:</b> Anti slippery tiles. (1 Complete job in all respects).</p> <p><b>ELECTRICAL WIRING:</b> All wires will be of copper and desired load (Make – Havells/Finolex) with A grade work. (1 Complete Set).</p> <p><b>Power Backup System:</b> with inverter and battery to provide power backup for atleast 3 hours.</p> <p><b>With installation and warranty.</b></p>	
2.	Refrigerated Centrifuge	<p><b>Refrigerated Centrifuge</b></p> <ul style="list-style-type: none"> <li>• Maximum RPM 15000 or above</li> <li>• Maximum RCF 21000 x g or above</li> <li>• Temperature Range : -10°C to +40°C</li> <li>• ClickLock™ rotor lid for fast and reliable lid opening</li> <li>• Innovative OptiBowl design for quiet operation</li> <li>• FastTemp function for quick pre-cooling of the centrifuge</li> <li>• 24 position Aerosol –tight rotor for 1.5/2.0 mL rotors, Option for PCR Strip Rotor and Kit Rotor</li> <li>• Small footprint and low access height of 51 cm with open lid, Dimensions (W×D×H) : 29×48×26 cm</li> <li>• Braking time and Acceleration time from max. rpm : 13s</li> <li>• Noise level : 48 dB(A) or less</li> <li>• Max. Power Requirement : 350 W, Power Supply : 230V/50-60 Hz</li> <li>• SOFT braking function to protect sensitive samples</li> <li>• Centrifuge should have the facility to drain accumulated water</li> <li>• Rotors and Adapters should be autoclavable</li> </ul> <p><b>With warranty and installation</b></p>	01 unit



3.	Weather Station Data logger	<p><b>Weather station:</b>  Portable weather station to measure solar radiation, Photosynthetically active Radiation, temperature, relative humidity, sunlight intensity, rainfall, wind velocity and direction. With digital display. Waterproof. Powered by rechargeable Powered by rechargeable Li-ion batteries.</p> <p>(i) <b>Temperature Measurement</b>  <b>Measurement range:</b> -20° to 70°C (-4° to 158°F)  <b>Accuracy:</b> ± 0.47°C at 25°C (± 0.85°F at 77°F). A solar radiation shield is required for accurate temperature measurements in sunlight.  <b>Resolution:</b> 0.10°C at 25°C (0.18°F at 77°F)  <b>Drift:</b> Less than 0.1°C/year (0.2°F/year)  <b>Response time:</b> Airflow of 1 m/s (2.2 mph): maximum 4 minutes, typical to 90%</p> <p>(ii) <b>Relative humidity measurement: Range:</b> 1-99%  <b>Accuracy:</b>±2.5% from 10% to 90% typical to a maximum of ±3.5% including hysteresis at 25°C (77°F); below 10% and above 90% ±5% typical  <b>Resolution:</b> 0.01%  <b>Response time:</b> 10 seconds to 90% in airflow of 1 m/s (2.2 mph)</p> <p>(iii) <b>Rainfall measurement</b>  Rain gauge: Light weight with rust free material  <b>Rainfall rate:</b> At least 12.7 cm (5 in.) per hour  <b>Calibration accuracy:</b> ±1.0% (up to 1 in./hour  Rain sensor transmission interval: 60s</p> <p>(iv) <b>Solar radiation measurement:</b>  Measurement range of 0 to 1280 W/m<sup>2</sup> over a spectral range of 300 to 1100 nm  Accuracy: Typically within ±10 W/m<sup>2</sup> or ±5%, whichever is greater in sunligh</p> <p>(v) <b>Photosynthetic light radiation measurement</b>  <b>Measurement range:</b> 0 to 2500 µmol/m<sup>2</sup>/sec, wavelengths of 400 to 700 nm  <b>Operating temperature range:</b> -40° to 75°C (-40° to 167°F)  <b>Accuracy:</b> ±5 µmol/m<sup>2</sup>/sec or ± 5%, whichever is greater in sunlight; additional temperature-induced error ±0.75 µmol/m<sup>2</sup>/sec/degree C from 25°C. Cosine corrected 0 - 80 degrees, 360 degree rotation.  <b>Resolution:</b> 2.5 µmol/m<sup>2</sup>/sec</p> <p>(vi) <b>Wind speed and wind direction measurement:</b>  Measurement range 0-76 m/sec (0-170 mph),0-355 degrees  <b>Accuracy:</b> ±1.1 m/sec (±2 mph), ±7 degrees  <b>Resolution:</b> 0.5 m/sec (1.1 mph), 1 degrees (0 to 355 degrees)  <b>Starting Threshold:</b> ≤1 m/sec (2.2 mph), 1 m/sec (2.2 mph)  <b>Operating Temperature Range:</b> -40°C to 65°C</p>	01 complete set
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Terms and conditions:

1. Deposit EMD/Bid Security: Minimum 2% EMD money only against the equipment above INR 50,000.00 may be submitted through Bank Draft along with the quotations favoring to Registrar, Rajiv Gandhi University, Payable at SBI Itanagar/Naharlagun or Vijaya Bank, Itanagar/naharlagun.
2. The rate quoted shall be inclusive of all charges/Taxes (i.e. packaging, forwarding, freight, installation and all other incidental charges) F.O.R at Rajiv Gandhi University, Rono Hills, Doimukh, Arunachal Pradesh. The quoted rate should be valid for the current financial year.
3. The last date of receipt of quotation is **10.07.19 upto 3.pm.**
4. Sealed quotation should be submitted to "The Registrar, Rajiv Gandhi University, Rono-Hills, Doimukh, Itanagar-791112, Arunachal Pradesh" before due date and time.
5. Envelope should bear the inscription "RGU/UGC/DST/HG-399/2019"
6. The bidder should quote the rates of instruments with model number, its detailed specifications etc. quotations not adhering to the specifications will be out rightly rejected.
7. The bidder must enclose the authorized dealership certificate relevant to items the bidder is quoting for. The authenticity of certificates shall be verified through corporate/regional offices or through proper officiating channels.
8. Rajiv Gandhi University reserves the right to accept or reject any bid or cancel the tender proceedings without assigning any reason whatsoever.
9. GST: **Only the registered firms under GST are eligible for Bidding.** Registration Certificate indicating the GST number of the firm must be clearly mentioned in the quotation. Quotationer's are requested to enclose a self attested copy of their valid certificate of PAN card, and trading license with their tender. Income Tax and other Taxes as applicable shall be deducted from the bills as per the instructions of the Government. (Income tax @ 2 %.). **The Xerox copies of GST and PAN card is mandatory.**
10. Installation and demonstration free of cost by the service engineer of the company.
11. Warranty: 1 years onsite full comprehensive free warranty.
12. Quotations received without Bid Security (EMD) amount by way of Demand Draft or Pay Order/Banker's Cheque in the name of Registrar, Rajiv Gandhi University, Itanagar/ Naharlagun will not be considered at all.
13. No payment will be made for unsatisfactory supply.
14. The Bills shall be preferred in the name of Registrar, Rajiv Gandhi University, Doimukh.
15. Incomplete proposals/Quotations received after due date shall not be entertained.
16. The competent authority of this University reserves the right to accept or reject any or all quotations without assigning any reason.

  
Assistant Registrar,  
UGC & Project Cell, RGU