



# राजीव गान्धी विश्वविद्यालय

(केन्द्रीय विश्वविद्यालय)

रोनो हिल्स, दोइमुख, ईटानगर - ७९१ ११२  
अरुणाचल प्रदेश

**RAJIV GANDHI UNIVERSITY**  
(CENTRAL UNIVERSITY)

RONO HILLS, DOIMUKH, ITANAGAR - 791 112  
ARUNACHAL PRADESH

NO. RGU/PC-513/DST-SERB/NKM/2022/547

DATE: 5th January, 2023  
.....DECEMBER, 2022

## NOTICE INVITING QUOTATION

The Registrar, Rajiv Gandhi University, Rono Hills, Doimukh, Arunachal Pradesh – 791112, on behalf of President of India, invites sealed quotations on single bid system for procurement of **scientific equipments** under the DST-SERB sponsored project entitled “**Tailoring Cold plasma-liquid interactions for microbial decontamination in exotic juices of Arunachal Pradesh: A non-thermal approach for safe preservation of liquid foods**”. Last date and time of submission of quotations: 27.01.2023 (1600:00 hrs.). For more details, please visit university website [www.rgu.ac.in](http://www.rgu.ac.in).

**(Dr. N.T.Rikam)**  
**Registrar, RGU**

राजीव गान्धी विश्वविद्यालय  
रोनो हिल्स, दोईमुख (अरुणाचल प्रदेश)  
Registrar  
Rajiv Gandhi University  
Rono Hills, Doimukh (A.P.)



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### Proforma for Financial Bid

Sl. No.	Name of Equipment	Qty.	Rate	GST		Amount
				Rate	Amount	
1.	pH meter	1 Nos.				
2.	High Voltage Cold Plasma System	Multipin-Plane Plasma Reactor (1 Nos.) High Voltage Plasma Power Supply with Digital Control Panel (1 Nos.)				
3.	Magnetic stirrer with hot plate	1 Nos.				
4.	Refrigerator	1 Nos.				
5.	Orbital Shaking incubator	1 Nos.				
6.	Precision analytical balance	1 Nos.				
7.	Centrifuge	1 Nos.				
8.	Hand held Digital Refractometer	1 Nos.				

*Handwritten signature*



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### Instruments:

Sl. No	Name	Detailed Specifications	Quantity required
1.	pH meter	<ul style="list-style-type: none"><li>• Large, easy-to-read display, bench top</li><li>• Ready indicator to let know when readings are stable</li><li>• Up to 5-point calibration with auto-buffer recognition</li><li>• Non-volatile memory holding up to 100 data points</li><li>• Integral electrode holder</li></ul> <p><b>pH</b></p> <ul style="list-style-type: none"><li>• Range: -2.00 to 16.00 pH</li><li>• Resolution: 0.01 pH</li><li>• Accuracy: <math>\pm 0.01</math> pH</li><li>• Cal. Points: Up to 5</li><li>• Buffer sets USA (1.68, 4.01, 7.00, 10.01, 12.45), NIST (1.68, 4.01, 6.86, 9.18, 12.45)</li></ul> <p><b>ORP</b></p> <ul style="list-style-type: none"><li>• Range: <math>\pm 2000</math> mV</li><li>• Rel. mV Range: <math>\pm 2000</math> mV</li><li>• Resolution: 0.1 mV (<math>\pm 199.9</math> mV) / 1 mV (beyond)</li><li>• Accuracy: <math>\pm 0.2</math> mV (<math>\pm 199.9</math> mV) / <math>\pm 2</math> mV (beyond)</li></ul> <p><b>Temperature</b></p> <ul style="list-style-type: none"><li>• Range (Meter): 0.0 to 100.0 °C / 32.0 to 212.0 °F</li><li>• Resolution: 0.1 °C / 0.1 °F</li><li>• Accuracy: <math>\pm 0.3</math> °C / <math>\pm 0.5</math> °F (0 to 70 °C)</li><li>• Compensation: ATC / MTC (0 to 100 °C) (pH only)</li><li>• Calibration: Offset in 0.1 °increments; offset range: <math>\pm 5.0</math> °C / <math>\pm 9.0</math> °F</li><li>• Power Requirements: 9 V DC adapter, 1.3 A (100/240 VAC, SMPS)</li></ul> <p><i>Product warranty of minimum 1 year</i></p>	1 Nos.
2.	High Voltage Cold Plasma	<p><b>Part A: Multipin-Plane Plasma Reactor</b></p> <ul style="list-style-type: none"><li>• Multipoint to Plane discharge reactor with large surface area and optimized geometry</li><li>• Discharge area of 250 mm x 200 mm.</li></ul>	1 Nos.



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System	<ul style="list-style-type: none"><li>• Discharge gap can be varied up to a maximum 70 mm in discrete steps.</li><li>• Food-grade electrode made of stainless steel to guarantee long life.</li><li>• Does not require any additional dielectrics for limiting discharge current.</li><li>• Reactor can be placed on a laboratory bench or inside a fume hood. Plug and play operation with our compatible high voltage high frequency plasma power supply.</li><li>• Peak operating voltage of 85 kVp-p and peak power less than 200 W at 70 mm gap.</li><li>• Operates in open air and does not require expensive noble gases.</li></ul> <p><b>Part B: High Voltage Plasma Power Supply with Digital Control Panel</b></p> <ul style="list-style-type: none"><li>• The power supply outputs a variable high voltage sinusoidal waveform of up to 35 kV rms using the oil-cooled heavy duty step-up transformer.</li><li>• The power supply can handle a load of up to 900 W.</li><li>• The power supply operates using standard single-phase input supply.</li><li>• The power supply does not require any external amplifiers or pulse width modulation circuits.</li><li>• The power supply has in-built digital current meter and voltage meter (for input and output).</li><li>• The power supply comes with a power meter for recording electrical power consumption.</li><li>• Features overcurrent and short-circuit protection.</li><li>• The power supply features proprietary digital control with user settable current limiting and auto shutdown.</li><li>• The power supply also features BNC connector ports for externally recording the waveforms, if desired.</li><li>• The power supply has an in-built timer to set the process time (up to 999 s). The timer can be manually over-ridden if desired.</li></ul> <p><b>Product warranty of minimum 1 year</b></p>	
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3.	Magnetic stirrer with hot plate	<ul style="list-style-type: none"><li>• Stirring position 1</li><li>• Max. Capacity : 2 L</li><li>• RPM range: 200-1500 rpm</li><li>• Timer: 0-999 min or continuous, digital</li><li>• Plate temperature: Ambient +5°C -300°C</li><li>• Temperature accuracy: <math>\pm 1^{\circ}\text{C}</math></li><li>• Safe temperature setting and indicator when temperature is above 50°C</li><li>• Heater capacity: 300 Watts</li><li>• Display: LED Digital</li><li>• Plate material: SS</li><li>• Top Plate dimensions: 150×155 mm</li><li>• Magnetic bar : 25 mm</li><li>• Protection class : IP21</li><li>• Supplied with PT100 probe</li></ul> <p><b><i>Product warranty of minimum 1 year</i></b></p>	1 Nos.
4.	Refrigerator	<ul style="list-style-type: none"><li>• Free standing and double door, interior LED</li><li>• Frost Free Refrigerator : Auto defrost function to prevent ice-build up</li><li>• Capacity: 253 L</li><li>• Freezer capacity: 69 L and Fresh food capacity: 184 L</li><li>• Toughened glass shelf at least 3 shelves</li><li>• Energy efficiency: 3 Star Rating or better</li><li>• Digital Inverter Compressor: greater energy efficiency, less noise.</li><li>• It automatically adjusts its speed in response to cooling demand</li></ul> <p><b><i>Minimum 1 year warranty on product, 10-20 years on compressor</i></b></p>	1 Nos.



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5.	Orbital Shaking incubator	<ul style="list-style-type: none"><li>• Capacity: 45-95 litres or more</li><li>• Temperature range: +5 to 70°C or better</li><li>• Temp uniformity: <math>\pm 0.1^\circ\text{C}</math> or better</li><li>• PID controller</li><li>• Recirculating fan for better temperature control</li><li>• Variable RPM: 50-500 RPM</li><li>• Timer Range: 0-999 min</li><li>• LCD display</li><li>• Glass View Door: Yes</li><li>• Digital Door: Yes</li><li>• Microprocessor Based PID controller : Yes</li><li>• No. of Shelves: Min. 1-2 shelves or optional</li><li>• Universal platform having interchangeable clamps of assorted size. Ability to hold 100 ml/150 ml/250 ml flasks</li><li>• Body powder coated stainless steel</li><li>• Preferably with Castor Wheel: Yes</li><li>• Works on 220/230 V AC single phase 50Hz power supply.</li></ul> <p><i>Product warranty of minimum 1 year</i></p>	1 Nos.
6.	Precision analytical balance	<ul style="list-style-type: none"><li>• Capacity: 220 g;</li><li>• Readability: 1 mg (0.001 g);</li><li>• Tare range (subtractive): 220 g;</li><li>• Response time (avg.): 1.3 s;</li><li>• Repeatability: <math>\leq \pm 0.001</math> g;</li><li>• Linearity: <math>\leq \pm 0.002</math> g;</li><li>• LCD Backlit</li><li>• Pan (diameter): 115 mm;</li><li>• Housing (W x D x H): 230x310x305 mm;</li><li>• Net weight approx.: 4.2 kg;</li><li>• Adaptation to Ambient conditions : By selection of 1 of 4 Optimized filter levels.</li></ul> <p><i>Product warranty of minimum 1 year</i></p>	1 Nos.



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7.	Centrifuge	<ul style="list-style-type: none"><li>• Speed range from 300-5000rpm or more.</li><li>• Max. RCF: 2350xg or more; Increment: 10xg or better</li><li>• Speed accuracy: <math>\pm 10-20</math> rpm</li><li>• Run time: 0sec-60 min or better</li><li>• Rotor speed can be set and displayed by RPM or G-force.</li><li>• Adapter for at least for 1.5-2 ml centrifuge tubes and additional adapter for 6 x 50 ml/ 6x15mL tubes along with requisite tubes.</li><li>• Defined program by knob will be stored and activated when power on.</li><li>• Easy-to-read processing LCD/LED display and sound alert;</li><li>• Safety Devices: Door interlock, Overspeed detector, Automatic internal diagnosis, imbalance detection</li><li>• Motor: Brushless DC motor; Power: Single-phase, 100V-240V, 50Hz/60Hz, 70W; mm;</li><li>• Advanced features: Speed/RCF switch; sound-alert function</li></ul> <p><i>Product warranty of minimum 1 year or more</i></p>	1 Nos.
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8.	Hand held Digital Refractometer	<ul style="list-style-type: none"><li>• Scale: Brix RI</li><li>• Range: 0.0 to 85.0% or more</li><li>• Refractive index: 1.333-1.530</li><li>• Resolution: 0.1% or better</li><li>• Accuracy: <math>\pm 0.2</math> or better</li><li>• Measuring temperature: 5 to 80°C or less</li><li>• Sample temperature range: 5-95°C</li><li>• Automatic Temperature Compensation: 10 to 40°C or better</li><li>• Prism dish: stainless steel, prism seal silicone, prism 8 mm optical glass.</li><li>• Sample illumination : Yellow LED</li><li>• Battery type/life: 2xAAA (3V) or 9 V battery/Approximately 5000-10,000 readings</li><li>• Preferable: HAL- High Ambient Light detection, Error messaging, Battery life indicator, AG Test Mode, Scale library, Delay before reading, °F/°C switch, Serial &amp; Version No, pin control. Automatic shut off.</li><li>• Dimensions: 192 x 102 x 67 mm or preferably less or smaller and light weight.</li></ul> <p><i>Product warranty of minimum 1 year or more</i></p>	1 Nos.
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(Dr. N.T. Rikam)  
Registrar, RGU

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### TERMS AND CONDITIONS

1. Bidder should have registered operational office for at least 4 years. Document in support of their existence, GST registration, PAN card, company registration and trading license must be submitted along with the bid.
2. Bidder should have done similar work in any Government Educational Institute/University/PSUs/Gout College etc.
3. Bidder should attach a declaration on its letterhead that bidder has never been blacklisted/ debarred/ suspended in any government educational institutions/PSUs/Central or State Universities etc.
4. The rates quoted must be in net, inclusive of taxes, packaging, forwarding, freight, installation (physical only) and all other incidental charges. The price bid should be submitted as per the prescribed format of this "Notice Inviting Quotation" only. Any deviation from the prescribed format is liable to be rejected.
5. Quote the Core price & Tax, Duties, Discount etc. separately. All rates quoted should be F.O.R destination (Rajiv Gandhi University, Doimukh) with breakup. Vague /Ambiguous terms like "Packing, forwarding, clearing, installation charge etc." without mentioning the specific amount shall not be accepted. The taxes / duties / discounts, if applicable, are to be explicitly and separately shown in the quotation and under no circumstances, these components shall be added to the basic price and shown as single price. Bidders shall indicate their rates in clear/ legible figures as well as in words and should not contain overwriting.
6. Sealed quotations should be addressed to "The Registrar, Rajiv Gandhi University, Rono Hills, Doimukh – 791112, Arunachal Pradesh" and should be submitted to the office of Registrar, Rajiv Gandhi University on and before 27.01.2023 (1600:00 hrs).
7. No bid shall be accepted/ received after the due date and time.
8. The sealed quotation envelope should be super scribed as:  
"No.RGU/PC-513/DST-SERB/NKM/2022/547, Quotation for equipment" under the project "Tailoring Cold plasma-liquid interactions for microbial decontamination in exotic juices of Arunachal Pradesh: A non-thermal approach for safe preservation of liquid foods"



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9. The bidder should quote the products strictly as per the tendered specifications. No deviations in the specifications of the items would be accepted. Quotations not adhering to the specifications will out rightly be rejected.
10. **GST/IGST/IT:** -The firms must submit GST registration Certificate indicated also the TIN number of the firm. The vendor must also attach a copy of the **PAN number, Bank account Number, IFSC Code, bank name and branch** to deduct the TDS and other taxes as applicable from the bills as per the instructions of the Government.
11. **Late and delayed tender:-** Late and delayed tender will not be considered. In case any unscheduled holiday occurs on the prescribed closing/opening date the next working day shall be the prescribed date of closing/opening.
12. **Duty Exemption:-**The Rajiv Gandhi University, Itanagar, has been granted the benefit of exemption from the payment of central excise duty and customs Duty by the Department of Scientific and industrial Research (DSIR) Government of India vide their Notification NO. **TU/IRG-CDE(1203)/2018 dated 14-12-2019**, Customs and excise duty exemption certificate will be issued as applicable against receipt of Purchase order (P.O) acknowledgement (Maximum GST =18%)
13. The equipment and its components under the purchase order, when installed, shall be warranted for the quality, workmanship, trouble free operation and performance for a period of at least 1year from the date of putting the system into operation at Rajiv Gandhi University, If any item covered under warranty fails, the same shall be replaced free of cost including all the applicable charges including shipping cost both ways.
14. All the quotations must be supported by the printed technical leaflet/ literature and the specifications mentioned in the quotation must be reflected/ supported by such printed technical leaflet/ literature. For easy reference, the model and specification quoted should invariably be highlighted in the leaflet/ literature.
15. Dealers or agents quoting on behalf of Manufacturer must enclose valid dealership certificate.



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16. The offers received through telex / tele-fax / e-mail will not be accepted by the University under any circumstances.
17. The University shall not be responsible for any delay/loss or non-receipt of tenders by post / courier service.
18. The bid should be accompanied by a DD/FDR/ BG for an amount equivalent to **5%** of the total amount quoted as Earnest Money Deposit (EMD) drawn in favour of the **Registrar, Rajiv Gandhi University, payable at Itanagar/ Naharlagun/ Doimukh**. However Micro and Small Enterprises (MSEs) registered under MSME are exempted from submission of EMD / Bid security.
19. The rates quoted should be valid for a period of 1 (One) year.
20. No unsolicited correspondence shall be entertained after the submission of the offer. The bidders shall make no enquiry during the course of evaluation of the tender until a final decision is conveyed to the successful bidder. However, the purchase committee or its authorized representative can make any enquiry/seek clarification from the bidders. In such a situation, the agency shall extend full cooperation. The bidders may also be asked to arrange demonstration of the offered items, in a short notice, as such the bidders have to be ready for the same.
21. The items should be delivered within 30 (thirty) days from the date of issue of purchase order. All aspects of safe delivery shall be exclusive responsibility of the vendor. For sophisticated equipment, the package will be opened only in the presence of University representative and vendor's representative. The intact condition of package and the seal/indicators for not being tampered with shall form the basis for certifying the receipt in good condition.
22. Part delivery is not allowed.
23. Safe Delivery of goods: is the exclusive responsibility of the vendor.
24. Acceptance of the ordered goods is subject to successful installation and commissioning at our site.
25. All the terms and conditions mentioned herein must be strictly adhered to by all the vendors. Conditional tenders shall not be accepted on any ground and shall



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- be rejected straightway. Printed conditions mentioned in the tender bids submitted by vendors will not be binding on the University.
26. Late and delayed tender will not be considered. In case any unscheduled holiday occurs on the prescribed closing/opening date, the next working day shall be the prescribed date of closing/ opening.
  27. Additional terms and conditions will be incorporated in the purchase order, if needed, to safe guard the interests of the University.
  28. Tender is not transferable.
  29. Extra charge for installation & demonstration shall not be paid by Rajiv Gandhi University.
  30. The rates/amounts should be indicated in both figures and words. The rates and units shall not be over written. All corrections must be signed in full by the firms.
  31. In case of any dispute in respect of the tender, all legal matters shall be instituted within the jurisdiction of the place where the purchaser ordinarily resides.
  32. The University may terminate the bid/ supply order in whole / part and forfeit the Bid Security/ EMD in case the supplier/ vendor fails to meet the terms and conditions.
  33. Incomplete proposals and quotations received after due date shall not be entertained.
  34. A self-attested copy of valid Dealership Certificate, certificate of GST No., PAN No., and Trading License must be enclosed along with the tender.
  35. No payment will be made for unsatisfactory supply.
  36. Any offer containing incorrect and incomplete information shall be liable for rejection.



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37. Rajiv Gandhi University, Doimukh reserves the right to accept / reject any offer in full or in part or accept any offer other than the lowest offer without assigning any reason thereof.

**Note:**

- i. Last date and time of receipt of quotation: 27.01.2023 (16:00 hrs.)

(Dr. N.T. Rikam)  
Registrar, RGU

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NO. RGU/PC-513/DST-SERB/NKM/2022/ 547

DATE: 5<sup>th</sup> January  
.....DECEMBER, 2022

**Copy to:**

1. PS to VC for his kind information please.
2. PS to Registrar for his kind information please.
3. PS to Finance officer for his kind information please.
4. The Joint Director, Computer Centre for information with a request to upload the same into the University website [www.rgu.ac.in](http://www.rgu.ac.in). Please.
5. Dr. Nikhil Kumar Mahnot, PI, of the project for information please.
6. Office copy

(Dr. N.T. Rikam)  
Registrar, RGU

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