



राजीव गान्धी विश्वविद्यालय

(केन्द्रीय विश्वविद्यालय)

रोनो हिल्स, दोइमुख, इटानगर - ७९१ ११२

अरुणाचल प्रदेश

RAJIV GANDHI UNIVERSITY

(CENTRAL UNIVERSITY)

RONO HILLS, DOIMUKH, ITANAGAR - 791 112

ARUNACHAL PRADESH

NO. RGU/PC-522/SERB/RJ/2022/ 530

DATE : 20TH 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 “**Design, Synthesis and Application of Copper-Based Photoredox Catalyst for Visible Light-Induced Construction of Seven Membered N,O,S- and O,S,S-Heterocycles.**” Last date and time of submission of quotations: 16.01.2023 (1600:00 hrs.). For more details, please visit university website www.rgu.ac.in.

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

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

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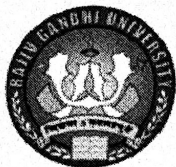
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Proforma for Financial Bid

Sl. No.	Name of Equipment	Qty.	Rate	GST		Amount
				Rate	Amount	
1.	Rotavapor bundle with vacuum controller	1 nos				
2.	Photoredox LED Lamp with PR Controller and Mounting rig.	Blue LED lamp (2 nos) Green LED lamp (2 nos) PR controller (1 nos) Mounting rig (1 nos)				
3.	Vacuum pump.	1 nos				
4.	Chilled Water Circulator	1 nos				
5.	Analytical Precision Balance	1 nos				
6.	Digital Magnetic Stirrer Hot Plate	1 nos				
7.	Hot Air Oven	1 nos				



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ARUNACHAL PRADESH

Instruments:

Sl. No.	Item	Quantity	Specifications
1.	Rotavapor with controller bundle vacuum	1 nos	<p>Rotavapor bundle</p> <ul style="list-style-type: none">• Glass coiled condenser should be a vertical condenser for standard applications with cooling surface area 1460 cm² or better.• Should be angle adjustable 0 – 35 ° or better.• All glass components should be made of borosilicate 3.3 glass.• Stroke distance 150 mm (+ 100 mm extendable) or better.• Manual/motor lift.• Rotation speed should be 20 – 280 rpm or better.• Evaporation flask size range 50 – 4000 mL and should be able for use on the same joint adapter without additional connections. Evaporation flask should be provided along with receiving flask.• The heating power 1300 W or higher.• Controlled temperature water bath range of 20 – 95 °C or better.• Temperature regulation accuracy ± 2 °C or better.• Digital display of temperature that allows adjusting set temperature and indicates the actual temperature.• Over-temperature protection, power cut off when the actual temperature exceeds the set temperature or by rapid temperature increase.• Carry handles Two integrated handles facilitate carry, re-filling and emptying the heating bath.• Protection class IP21.

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Vacuum Pump with Digital Vacuum Controller:

- The vacuum pump should be chemically resistant PTFE diaphragm vacuum pump.
- It should be regulated by the Digital Controller and to be delivered with a silencer and 2 m of vacuum tubing.
- Number of steps (heads): 2 (2)
- The suction capacity should be 1.5 m³/h or better.
- The final vacuum (absolute) should be 10 mbar (± 2 mbar) or better.
- The sound level should be no more than 52 dB(A).
- The maximum power consumption should not exceed 150 W.
- The interface that controls the vacuum digitally.
- The pump should should come with ECO-mode that automatically gets activated after 1 hour of operation.
- The measurement range should be 1400 – 1 mbar and the control range 1100 – 1 mbar.
- The measuring accuracy ± 2 mbar (± 1 digit) or better - after calibration at constant temperature.
- Temperature compensation 0.07 mbar/K.
- Hysteresis Automatic or 1 – 500 mbar.
- Display should be digital, monochrome, 4.0 in or bigger.
- Timer function to stop the process after pre-set time.
- Overpressure prevention - Automatic aeration when pressure above 1400 mbar.
- Vacuum regulation of set pressure -

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RONO HILLS, DOIMUKH, ITANAGAR - 791 112
ARUNACHAL PRADESH

			Adjust and keep pressure stable within hysteresis. Warranty: Three years from the date of installation.
2.	Photoredox Lamp with Controller Mounting rig.	LED PR and Blue LED lamp (2 nos) Green LED lamp (2 nos) PR controller (1 nos) Mounting rig (1 nos)	<p>Photoredox LED lamps:</p> <p>Photoredox Blue LED lamp (2 nos):</p> <ul style="list-style-type: none"> The wavelength of the blue LED lamp should be 456 nm and applicable for photoredox applications. The LED lamp should have a linear illumination area with more light distribution. The average density of the LED lamp 352 mW/cm² or better. Should have 4 or more levels of intensity control. The power consumption should be 50 W or lower. The operating temperature should be 0 – 40 °C or better. The beam angle 56°. The input voltage 100-240 VAC. <p>Photoredox Green LED lamp (2 nos):</p> <ul style="list-style-type: none"> The wavelength of the green LED lamp should be 525 nm. The LED lamp should have a linear illumination area with more light distribution. The average density of the LED lamp 352 mW/cm² or better. Should have 4 or more levels of intensity control. The power consumption should be 50 W or lower. The operating temperature should be 0 – 40 °C or better. The beam angle 56°. The input voltage 100-240 VAC <p>PR Controller (1 nos):</p> <ul style="list-style-type: none"> The PR controller should have cables to control 4 LED lamps.

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RAJIV GANDHI UNIVERSITY

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RONO HILLS, DOIMUKH, ITANAGAR - 791 112
ARUNACHAL PRADESH

			<ul style="list-style-type: none"> The PR controller should have a touch control and colour display. <p>Mounting Rig (1 nos):</p> <ul style="list-style-type: none"> The mounting rig should be able to hold 4 LED lamps. It should have a powerful fan at the top to blow air below efficiently. The mounting rig should have a light-blocking shield. <p>Warranty: For all parts one year from the date of installation.</p>
3.	Vacuum pump: Preferred make (HHV/Tarson/Borosil)	1 nos	<ul style="list-style-type: none"> The pump should be two stage oil sealed, rotary vane vacuum pump with 0.55 kW single phase motor. The motor rotational speed at 50 Hz should be 1440 or better. It should have a 10 mm OD Nozzle with KF25 ebd Flanges inlet connection. The total pressure should be 2×10^{-2} (1.5×10^{-2}) mbar or better. The pumping speed should be 20 m³/h at 50 Hz or better. The water vapour tolerance should be 27 mbar or better and the water vapour pumping capacity should be 0.4 Kg/h or better. The maximum inlet pressure should be 0.5 bar g or better and the outlet pressure 1 bar g or better. The vendor should provide the recommended oil MD504 for installation. <p>Warranty: One year from the date of installation.</p>
4.	Chilled Water Circulator Preferred make (Buchi/IKA/Equitron)	1 nos	<ul style="list-style-type: none"> The chilled water circulator should have a temperature range of -10 °C at Amb < 25°C or better. The coolant reservoir capacity should be 4 litres or more with a pumping capacity of 15 liters per minute or better. The cooling capacity: 750Watt @ 15°C or better. It should be CFC Free with seamless

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RONO HILLS, DOIMUKH, ITANAGAR - 791 112

ARUNACHAL PRADESH

			<ul style="list-style-type: none">water tank.Abrasion resistance and durable finish by heat epoxy coating on panels.The construction should be of stainless-steel construction. Power supply 230V, 50Hz, Single Phase. <p>Warranty: One year from the date of installation.</p>
5.	Analytical Precision Balance Preferred Make (Aczet/Mettler Toledo/Sartorius)	1 nos	<ul style="list-style-type: none">The analytical precision balance should have Internal Calibration.Its minimum capacity should be 220g or more.Its readability should be 0.001g or better.Its repeatability(+/-): 0.001g.The size of the weighing pan should be Ø 110 mm.The response time should be 2-3 sec or better.It should have alpha numerical backlite LCD display.It should have a chamber height of 158 mm or more.The Power Supply: Automatic Density Determination Formulation etc. <p>Warranty: One year from the date of installation.</p>
6.	Digital Magnetic Stirrer Hot Plate Preferred make (Tarson/IKA)	1 nos	<ul style="list-style-type: none">The digital magnetic stirrer hot plate should have control and a digital display of rotation speed and temperature.It should have a ceramic top with a temperature range of 50-500 °C or more.It should be scratch-proof and chemical resistant.The rotation speed should have a range of 100-1200rpm or better.The capacity of the digital magnetic stirrer hot plate should be 5L or more.Its power should be 240VAC, 50 Hz. <p>Warranty: One year from the date of installation.</p>



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RONO HILLS, DOIMUKH, ITANAGAR - 791 112
ARUNACHAL PRADESH

7.	Hot Air Oven Preferred make (JSGW/IKON/Borosil)	1 nos	<ul style="list-style-type: none">The hot air oven should have a digital PID with Timer and Alarm.The capacity of the hot air oven should be 95 L or more.The heater wattage of the hot air oven should be 1.5 KW.The hot air oven should have air circulating fan and a minimum of 2 shelves.The control panel of the hot air oven should be with Mains & Alarm, Timer indicator, Temperature controller.The hot air oven should have digital display for temperature.The temperature should range from ambient to 250 °C or better.The temperature stability of the instrument should be ± 0.5 °C or better.The material of the instrument should be CRC/Mild steel with powder coated. 304 grade stainless-steel interior, outer mild steel with powder coated.The power supply: 220/230V AC ± 10 %, AC Supply Single phase 50 Hz.The hot air oven should have safety function such as temperature over shoot high & low temperature alarm ± 5 °C with MCB.The instrument should be able to perform a continuous duty cycle. <p>Warranty: One year from the date of installation.</p>
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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 16.01.2023 (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-522/SERB/RJ/2022/535.., Quotation for equipment" under the project "Design, Synthesis and Application of Copper-Based Photoredox Catalyst for Visible Light-Induced Construction of Seven Membered N,O,S- and O,S,S-Heterocycles"



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RAJIV GANDHI UNIVERSITY

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RONO HILLS, DOIMUKH, ITANAGAR - 791 112
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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/V/RG-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 1 year 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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अरुणाचल प्रदेश



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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 (fifteen) 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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ARUNACHAL PRADESH

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: **16.01.2023 (16:00 hrs.)**

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

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NO. RGU/PC-522/SERB/RJ/2022/530

Dated: 23 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. Please.
5. Dr. Ramen Jamatia, PI, of the project information please.
6. Office copy

(Dr. N.T. Rikam)
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