

**RAJIV GANDHI UNIVERSITY
RONO HILLS: DOIMUKH**

No.ST-202/Phy/2014 (Vol-III)

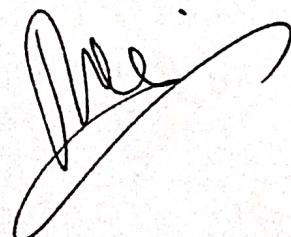
Dated the 22nd June, 2021

NOTICE INVITING QUOTATION

Rajiv Gandhi University, Rono Hills, Doimukh (Itanagar) invites sealed quotations for supply of equipments for Dept. of Physics as per Annexure-I & II.

MINIMUM ELIGIBILITY CRITERIA FOR PARTICIPATING BIDDERS:

- (1). Bidder should quote with tender specific authorization letter from respective manufacturer. This authorization letter should be valid till the warranty period exists.
- (2) Documents like GST Registration, PAN Card, Bank Details, Company Registration, Trading License copy should be submitted along with the quotation.
- (3) Bid Security/Earnest Money Rs. 5,000/- (Rupees five thousand) only should be submitted along with the quotation in the shape of Demand Draft favoring Registrar, Rajiv Gandhi University, payable at SBI Itanagar/ Naharlagun or Bank of Baroda Itanagar/ Naharlagun or Bid Security Declaration.
- (4) The rate & tax, discount etc. should be mentioned separately and rates quoted should be F.O.R destination (Rajiv Gandhi University, Doimukh). Vague /Ambiguous terms like "Packing, forwarding, clearing, installation charge etc. Extra" without mentioning the specific amount should not be accepted. The taxes / 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. All the components of taxes, if applicable, should be shown explicitly and separately (**It is to be noted that RGU has DSIR Certificate for GST rate of 5%**). Bidders shall indicate their rates in clear/ legible figures as well as in words and should not contain overwriting.
- (5) The quoted rates must be valid for 90 days from the last date of submission of quotation.
- (6) 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, (A signed Bidder's Warranty has to be submitted along with the Bid Document) 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.
- (7) 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.
- (8) The bidder should clearly state the after sales service centre and detail address in India, without which their quotations shall be liable for rejection.
- (9) Dealers or agents quoting on behalf of Manufacturer must enclose valid dealership certificate.



- (10) The offers received through telex / tele-fax / e-mail will not be accepted by the University under any circumstances.
- (11) The University shall not be responsible for any delay / loss or non-receipt of tenders by post / courier service.
- (12) No unsolicited correspondence shall be entertained after the submission of the offer. No enquiry shall be made by the bidders during the course of evaluation of the tender till 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 bidder 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.
- (13) All aspects of safe delivery shall be the exclusive responsibility of the vendor. For sophisticated equipments the package will be opened only in the presence of University representative and vendor's representative.
- (14) Part delivery is not allowed,
- (15) All the terms and conditions mentioned herein must be strictly adhered to by all the bidders. Conditional tenders shall not be accepted on any ground and shall be rejected straightway. Printed conditions mentioned in the tender bids submitted by vendors will not be binding on the University.
- (16) Up-to-date Tax clearance certificate. GST registration certificate indicating also the TIN, PAN number of the firm must be clearly mentioned in the quotation. The bidder may also attach documents of IT returns to the concerned Income Tax authority/ submit the exemption certificate. Taxes as applicable may be deducted from the bill(s) as per the instructions of the Government. Concessional Form C & D is not applicable to this University.
- (17) 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.
- (18) Tender is not transferable.
- (19) Timely supply of the ordered items, installation, commissioning (wherever is applicable) and training etc. is the essence of the contract. In the event of delayed delivery, installation and commissioning i.e. after the expiry of the period as agreed by both the parties, the vendor shall be liable for a penalty deduction at a percentage on the value of the undelivered equipment subject to a maximum of 10% as detailed below.
 - @ 2% up to one week
 - @ 3 % up to two weeks
 - @ 5% up to three weeks
 - @ 10% for four weeks and above subject to approval given by RGU Doimukh.
- (20) Extra charge for installation & demonstration shall not be paid by Rajiv Gandhi University.
- (21) The offer must be in English. The rates should be indicated both in figures and words. The rates and units shall not be over written, amount shall be both in figures and words. All corrections must be signed in full by the Firm
- (22) The prices quoted shall remain firm /valid until equipment/instruments are supplied.
- (23) 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.



- (24) The University may terminate the contract/ supply order in whole / part and forfeit the EMD/ PBG incase the supplier/ vendor fails to meet the contractual obligations.
- (25) A self attested copy of valid PAN Card, GST Certificate and Trading License must be enclosed along with the tender.
- (26) Quotations received without Bid Security/EMD amount by way of DD in the favour of Registrar, Rajiv Gandhi University will not be considered at all.
- (27) Payment shall be made after installation of the equipment. No payment shall be made for unsatisfactory supply and installation.
- (28) Additional terms and conditions will be incorporated in the purchase order, if needed, to safe guard the interests of the University.
- (29) Any offer containing incorrect and incomplete information shall be liable for rejection. Rajiv Gandhi University, Doimukh, Itanagar 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.
- (30) Performance Security 3% of total cost of the equipment(s) should be submitted by the successful bidder in the shape of Demand Draft favoring Registrar, Rajiv Gandhi University, payable at SBI/Bank of Baroda Itanagar/ Naharlagun or Performance Bank Guarantee (covering warranty period of the equipments) 3% of total cost of the equipment(s) before releasing the payment. The Performance Security amount shall be released after expiry of warranty period of the equipment(s).
- (31) GST should be applicable at the lower rate of 5% for educational research institution based on DSIR Certificate.

Note :

- i. The sealed quotation envelope should be super scribed quotation reference no.
- ii. Last date and time of receipt of quotation : 13/07/2021 up to 16.00 hours.

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Copy to:

1. All authorized dealers/ suppliers.
2. The Head, Dept. of Physics for information.
3. ☒ The Jt. Director, Computer Centre for information and uploading the quotation on Central Public Procurement Portal and in the University website.
4. Notice Boards.
5. Guard File.
6. Office copy.

Sd/- Registrar

Dated the 01 July 2021

REGISTRAR

Jt. Dir, (C/C)

Annexure 1

Name of the Item: Thermal Chemical Vapor Deposition (CVD) System and its accessories.

Quantity: One

Technical Specifications: Thermal chemical vapor deposition (CVD) system for the deposition of high quality 2D films such as tungsten disulphide (WS_2), molybdenum disulphide (MoS_2) etc.

Sl No.	Description	
Tube Furnace		
1	Max Temperature	Upto 1200 °C
2	Temperature Accuracy	±1 °C
3	Heating and Cooling Rates	5°C per minute
4	Number of Thermal Zones	3 (three)
5	Thermal Zone description	200 mm or more (min. constant temp zone 100 mm) for each zone
6	Furnace tube type and size	Quartz tube. Minimum diameter= 60 mm. and length= 1000 mm
7	Sample transfer rod	one
8	Construction	Horizontal
9	Insulation	Vacuum formed Zirconia fiber
10	Shell Construction	with proper stiffeners and neat powder coat painting.
11	Temperature control & Display	Programmable PID controller with display (3 numbers)
12	computer interface	USB
13	Power Supply	Single Phase 200-230 V. 50 Hz
Vacuum pump and gauge		
14	Vacuum pump	Rotary pump ($10^{-2} - 10^{-3}$ Torr)
15	Vacuum gauge	Pressure measuring gauges with digital displays
16	Pressure Controller	one
Gas supply system		
17	Gas Supply for Chamber	Gas feed system shall be provided with Mass flow controller. Regulators, Valves. 316 steel corrosion resistance tubing. Gas cabinet should have the facility for extraction of reactant gases in case of leakage and detection facility. In case of gas leakage, the PLC controller should trigger the alarm and shutdown the valve.
18	Mass flow Controllers	3 Precision MFCs: MFCs should be calibrated for, Ar, H ₂ , N ₂ , CH ₄ . Control Range:1-1000 seem Accuracy: $\leq \pm 0.02\%$ of Full Scale Material: Stainless Steel (316L), Non-Magnetic. Control Stability: $\leq \pm 0.1\%$ of Full Scale Control Valve: Closed Solenoid (Fast-Response) Digital display for set point and actual flow
19	At least one port for pulling and purging gases	
Control System and Electrical system:		
20	Manual/Semi-automatic control system	
21	Other accessories required for the CVD system need to be supplied.	
Other Requirements:		
22	Alumina boat and substrates: 10 no. each	
23	Thermal Gloves	
24	Suitable audible and visual alarm should be provided in case of malfunction of CVD furnace like temperature shoot-up, high power drawing, vacuum loss and deviation from gas flow rates	

Annexure 2

Name of the Item: Gas cylinder with regulator

Quantity: Gas Cylinder – 6. Regulator – 6.

Technical Specifications:

Sl. No.	Items	Quantity
1.	Argon (Ar) filled gas cylinder	1
	Regulator for above	1
2.	Nitrogen (N ₂) filled gas cylinder	1
	Regulator for above	1
3.	Hydrogen (H ₂) filled gas cylinder	1
	Regulator for above	1
4.	Oxygen (O ₂) filled gas cylinder	1
	Regulator for above	1
5.	Methane (CH ₄) filled gas cylinder	1
	Regulator for above	1
6.	Acetylene (C ₂ H ₂) filled gas cylinder	1
	Regulator for above	1