

INDIAN INSTITUTE OF TECHNOLOGY GOA

At Goa Engineering College Campus

Farmagudi, Ponda, Goa 403401

E-mail: purchase@iitgoa.ac.in

GSTIN: 30AABAI1653D1ZF

PAN: AABAI1653D

TAN: BLRI08261B

Enquiry No: IITGOA/2019-20/033

Date: 06/11/2019

IIT Goa invites sealed quotations in two bid form for the supply of below mentioned item.

Sl. No.	Description of Item	Qty
1	Rotary Evaporator with Vacuum Pump (Detailed Specifications Attached)	01 No.

Terms and conditions:

1. Quotation must be valid for at least 90 days.
2. The GSTIN should invariably be mentioned in your offer.
3. Kindly attach a compliance certificate along with the technical quote.
4. Prices:
 - I) **For Import Supplies:**
 - a) It is mandatory to quote prices in FOB basis only.
 - b) In case of multiple options of same product, bidders are requested to quote only one best option and not multiple options.
 - c) Payment terms: 90% payment by letter of credit and balance 10% will be paid by wire transfer after satisfactory installation and commissioning.
 - II) **For Indigenous Supplies:**
 - a) It is mandatory to quote prices in FOR basis only to be door delivered in IIT Goa.
 - b) In case of multiple options of same product, bidders are requested to quote only one best option and not multiple options.
 - c) Payment terms: Within 30 days after the delivery and installation of the item at IIT GOA.
5. Delivery and installation should be made within 6 weeks of getting a confirmed order.
6. The suppliers shall provide the banking details along with their quote on their letterhead duly signed and stamped.
7. IIT Goa reserves the right to accept or reject any or all bids without assigning any reason in public interest.

8. Quotations shall be submitted in two parts;
- 1) **Part – I (Technical)** should contain all the technical details and specification of the product. It should contain unpriced bid along with terms and conditions, compliance certificates, proprietary certificates (if applicable), any other certificates/details etc. This envelope should be marked as “Technical Bid”
 - 2) **Part -II (Financial)** The financial bid of the above item should be in a sealed envelope marked as “Financial Bid” and should contain financial terms and conditions.
9. For any clarification, you may kindly contact Dr. Raja Mitra, E-mail: rajamitra@iitgoa.ac.in and Stores & Purchase Department (email: purchase@iitgoa.ac.in) till 15/11/2019.
10. All sealed quotations must reach to the Assistant Registrar (Stores & Purchase), IIT Goa, at Goa College of Engineering Campus, Farmagudi, Ponda, Goa, 403 401 by 17.00 Hrs on or before 27/11/2019.

Sd/-
Asst. Registrar (S&P)

Technical Specification of rotary evaporator, vacuum controller and vacuum pump for laboratory usage

Specifications:

1) Rotavapor (1 No):

S. No.	Specification	Complied (Yes/No)	Comments
1.	Electronic lift with provisions for automatic lifting of the flask in case of power failure.		
2.	Rotation speed up to 280 rpm or better with microprocessor control.		
3.	All glass components should be made of Borosilicate.		
5.	Multifunctional combi-clip for easy removal and fixation of evaporating flask		
6.	7-stage adjustable immersion angle for the use of different flask sizes with maximum adjustable angle of 40 degrees.		
7.	Should be supplied with P+G coated Vertical Glass Assembly.		
8.	Large top-hole Vertical condensers with Screw cap SVL 22.		
9.	Digital display of set/actual bath temperature, rotation speed and lift position.		
10.	Microprocessor controlled bath temperature ranging from ambient to 210°C with an accuracy of $\pm 1^\circ\text{C}$.		
11.	Transition of heating bath data to vacuum controller through Infrared Communication.		
12.	Automatic over heat cut-off protection		
13.	1 L Evaporating Flask and Receiving Flask should be provided in standard scope of supply		
14.	Volume of heating bath 4.5 L or better		

2) Vacuum Controller (1 No):

S. No.	Specification	Yes/No	Comments
1.	Control unit with large 4.3 inches. LCD display for centrally controlling all process parameters of a Rotavapor like rotation speed, bath and coolant temperature, pressure, process time etc.		
2.	Manual management of pressure settings and aeration with timer function		

3.	Integrated aeration valve and precision pressure sensor.		
4.	Automatic aeration when pressure is above 1400 mbar.		
5.	Should have integrated solvent database for setting up dynamic distillation conditions.		
6.	Measuring range: 1400 - 0 mbar; Control range: ambient to 0 mbar.		
7.	Woulff bottle included		

3) Vacuum Pump (1 No):

S. No.	Specification	Yes/No	Comments
1.	Single stroke Speed control vacuum pump with a flow rate of 1.8 m ³ /h.		
2.	Ultimate vacuum should be 5 mbar or better.		
3.	Chemically resistant diaphragm made of PTFE.		
4.	Should have glass window to check solvent build up and contamination.		
5.	Sound Level adjustable between 32-57 dBA.		
6.	Should be supplied with silencer.		
7.	Should be speed controlled pump and stops after reaching desired vacuum pressure.		
8.	All tubing, connection and insulation for pipes to connect the pump, rotary evaporator and chillers		

Note-

1. All components like Rotary Evaporator, Vacuum Pump, and Controller should be from the same Manufacturer/Company.
2. Company/Vendor should have local service support and service engineer must attend the complaint within 48 hours.
3. Warranty of Rotary Evaporator System should be 3 Years from the date of installation.
4. Should be quoted with optional accessories - vacuum gasket (4 Pcs.), evaporation flask (1 no.) and Vapour duct (1 No.).
5. One day training at IIT Goa.
6. All items must be approved by CE/CSA
7. The quoted model must be supplied to other IITs, IISc and IISERs.
8. User list of 10 recent instalments.