

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/2018-19/066

Date: 07/01/2019

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

Sl. No.	Description of Item	Qty
1	Quartz Furnace (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 should be quoted in Indian Rupees inclusive of taxes and any shipping charges.
5. Delivery and installation should be made within 4 weeks of getting a confirmed order.
6. Payment: Within 30 days after the delivery and installation of the item at IIT GOA.
7. The suppliers shall provide the banking details along with their quote on their letterhead duly signed and stamped.
8. IIT Goa reserves the right to accept and/or reject any/all bids without assigning any reason.
9. 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.
10. For any clarification, you may kindly contact Dr. Bidhan Pramanick (e-mail: bidhan@iitgoa.ac.in) and Stores & Purchase Department (email: purchase@iitgoa.ac.in) till 18/01/2019.
11. All sealed quotations must reach to the Assistant Registrar (Stores & Purchase), IIT Goa, at Goa College of Engineering Campus, Farmagudi, Ponda, Goa by 17.00 Hrs on or before 28th January, 2019”.

Sd/-

Asst. Registrar (S&P)

Quartz Furnace Specifications:

Maximum temperature	: 1050°C standard, up to 1100°C optional Control range 150°C – 1050°C Control deviation $\pm 0,5^{\circ}\text{C}> 350^{\circ}\text{C}$
Tube material	: Quartz
Tube number	: One
Temperature measurement	: thermocouple type K
Heating rates	: < 60min to 1000°C, empty furnace
Heaters	: 6 resistant wire heaters (preferably Kanthal, 2 groups)
Cooling rates	: < 60min from 1000°C to 100°C, empty furnace
Cooling heater	: PID controlled cooling blower for outer chamber surface, coils and insulation
Chamber size	: 114mmØ, 255mmdepth
Carrier	: easy to replace carrier system for wafers, substrates, max. up to 25 wafers 100mm, pitch 4,76mm
Gas supply	: Two gas lines with flow meter (10 and 25 slm N2) one additional gas line available
Ventilation exhaust,	: Ventilation necessary for cooling air (DN125) process housing (DN100)
Electrical supply	: 230VAC, 50Hz, 16A, 3.5kW, TN-C-S
Low power consumption	: < 1.2kW at 1000°C
Controller	: PLC 50recipe Step length 1s - 99:59min heating/cooling normal PID controlled

Quartz carriers (2 Nos. with at least 10 slots), quartz crucibles (5 Nos.) as optional items
Provision of 7 or more recipe storage capability