

INDIAN INSTITUTE OF TECHNOLOGY GOA

At Goa Engineering College Campus

Farmagudi, Ponda, Goa 403401

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GSTIN: 30AABAI1653D1ZF

PAN: AABAI1653D

TAN: BLRI08261B

Enquiry No: IITGOA/2018-19/108

Date: 14/02/2019

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

Sl. No.	Description of Item	Qty.
1	Nanofiber Spinning Machine (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 price in CIF/CIP Goa basis only with separate cost breakup.
 - b) In case of Multiple options of same product, bidders are requested to quote only one best option and not multiple options.
 - c) All local taxes, customs duty and clearance charges will be borne by the Institute as applicable.
 - d) 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) In case of Multiple options of same product, bidders are requested to quote only one best option and not multiple options.
 - b) Payment terms: Within 30 days after the delivery and installation of the item at IIT GOA.
5. Delivery and installation should be made within 4-6 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 and/or reject any/all bids without assigning any reason.

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. Bidhan Pramanick (e-mail: bidhan@iitgoa.ac.in) and Stores & Purchase Department (email: purchase@iitgoa.ac.in) till 22/02/2019.
10. 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 07th March, 2019”.

Sd/-
Asst. Registrar (S&P)

Technical Specification of composite nanofiber spinning machine

Research Requirements

The nanofiber spinning machine should have the provision to make composite nanofibers in the form of:

1. Capability to have Substrate-Nanofiber-Substrate (SNS) composite
2. Vertical and horizontal spinning with liquid collector with targeted deposition
3. The machine should have the capability to spun biopolymers at low voltage provided a sterile environment. The detail supply report should be enclosed along with the tender.

Bidder should provide explanation for each point

Machine Specification:

A. High Voltage:

- Input voltage range: 230-240 VAC+/- 50 Hz
- Output voltage range: 0 + 30 KV (continuously varying)
- Output current: 0-400 um
- Digital: Digital voltage and current monitoring
- Voltage Regulation: 1/10KV
- Overload trip- unit shut down if current exceeds 20% of the maximum output current
- Power requirement: 400 watt

• Syringe Pump: 1

- Single syringe attachment with separate stepper drive unit
- Infusion and withdrawal function optional
- Volume, time and flow control
- Acceptable sample syringe: 5 µl-60ml
- Adjusting resolution: 0.1 µl/min
- Flow rate: 1nl/min-3 ml/min

B. Collector

- Plate: 200 mm x 200 mm
- Dum : D=100 mm, L=200 mm
- RPM: 100-4000 continuous variable

C. Spinneret

- Single Nozzle

D. Linear stage

- X-Axis: Distance adjustment Automated controlled
- Y-Axis: Z-Axis manual control optional

E. Spinning arrangement

- Vertical spinning
- Horizontal spinning
- Solvent spinning

F. Spinning conditions

- Solvent spinning (Compatible for water, Acetone, Methanol and other solvents)

G. Spinning chamber

- Inlet-outlet gas port
- Cabinet Temperature display
- Ventilation:

H. Panel control

- Emergency stop
- Main stop
- Exhaust with duck
- Auto cut high voltage while door is opened

I. Accessories

- Syringes with needles: 3ml, 5ml one box each (50 number)
- Standard spinning samples
- Chemical resistance tubing
- Key set

J. Warranty: warranty should be minimum 1 year