

**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/2019-20/021**

**Date: 11/10/2019**

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

Sl. No.	Description of Item	Qty
1	Microhardness Tester <b>(Detailed Specifications Attached)</b>	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) 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. 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.
8. For any clarification, you may kindly contact Dr. Sachin Kore (E-mail: [sachin@iitgoa.ac.in](mailto:sachin@iitgoa.ac.in)) and Stores & Purchase Department (email: [purchase@iitgoa.ac.in](mailto:purchase@iitgoa.ac.in)) till 19/10/2019.
9. 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 01/11/2019.

**Sd/-**  
**Asst. Registrar (S&P)**

## **Microhardness Tester (1 No.)**

### **Technical Specification:**

1. Testing Force: 10g to 1000g
2. Scale: HV0.01 to HV1
3. Min. Measuring Unit: 0.01 $\mu$ m
4. Hardness Value Rang: 1HV-4000HV
5. Hardness Value of Reading: Digital LCD Touch Screen
6. Total Magnification of Microscope: 100X (For Observation) and 400X (For Measurement)
7. Loading Method: Automatically Load, dwell and unload the testing force
8. Duration Time: 1-99s
9. Switch Type of Objective lens and Indenter: Manual Turret
10. Specimen Allowing Maximum Height: upto 100 mm
11. Distance from Indenter Center to Fuselage: upto 150 mm
12. Light Source: LED Cold light source
13. Power Supply: 110V/220V + 5%, 50/60 Hz
14. X-Y Testing Table: Dim.:100 $\times$ 100 mm, Max. Travel Range: 25 $\times$ 25mm, Moving Resolution Ratio:0.001mm (Digital XY micrometer)
15. Data Output: Built-in Printer (Hardness Value, the Max. And Min. Value, Testing times and Average Value)
16. Executed Standard: ASTM E384 & E92, GB/T4340, EN-ISO 6507, JIS B-7734
17. Standard Accessories:
  - a) 1 piece: 10X digital micro eyepiece
  - b) 10X and 40X objective lens
  - c) Vickers indenter
  - d) X-Y Testing Table
  - e) Flat Fixture
  - f) Small Parts Fixture
  - g) Power line
  - h) Dust cover
  - i) Instruction Book

- j) Hardness Conversion Tables
- k) Accessory case
- l) 2 pieces: Standard block of hardness (for HV)
- m) 4 pieces: horizontal adjusting screw

18. PC Attachment: Automatic data transfer to PC.

19. Automatic report generation with Case Depth Graph.

20. Installation and Demonstration to be provided at IIT Goa.