

NATIONAL INSTITUTE OF TECHNOLOGY CALICUT**N.I.T. Campus (P.O.), Kerala - 673601, India****Tel. : 04952286101, 109, 115, 116****EMAIL : purchase@nitc.ac.in****QUOTATION NOTICE****MAIN STORE**

Date: 08-Jan-2025

SEALED QUOTATIONS are invited for the supply of the stores given in Schedule C. **The tenderers are requested to send their quotations (as per the format given in schedule D) in sealed covers with the quotation number and last date for receipt of quotation superscribed.** Wherever indicated, samples may be furnished at the tenderer's expense unless otherwise specified. The tenderers are requested to follow the instruction given in Schedule A. This Institute cannot accept terms and conditions of payment other than the alternative given in Schedule B.

- | | |
|--|---|
| 1. Quotation Ref No. | NITC/S&P/S6/560/CED(P)/EQPT/2024-25/9471 |
| 2. Last Date for receipt of Quotation | 30 . Jan . 2025 Upto (IST) Time 4:00 PM |
| 3. The quoted rates should be valid upto | 45 days |
| 4. Address to which quotation are to be sent | |

**Assistant Registrar
Stores and Purchase**

**NIT Calicut
NIT Campus (P.O.)
673 601**

AR (S&P)

Approved for issue



To

1.

SCHEDULED A - INSTRUCTIONS TO TENDERERS

- (a) Quotations should contain the complete specification and brand names.
 (b) All taxes, packing and forwarding charges (if any) and any other charges should be clearly shown
 (c) Prices quoted should be for delivering at the premises of NIT Calicut
 (d) Period within which the items can be supplied by firm order should be clearly mentioned.
 (e) Quotations containing conditions like "subject to prior sale" may not be considered.
 (f) Quotations received after the due date is liable to be rejected.

SCHEDULED B - CONDITIONS OF PAYMENT

One of the following conditions of payment should be accepted if the quotation is to be considered.

- (a) 100% payment after the receipt of the items in good condition.
 Normally, complete payment will be made within 45 days from the date of receipt/installation of the items in good condition.
 (b) The supplier shall furnish Performance Security Deposit and Form Contract as follows:

- (i) Execute a Form of contract as per Institute standard format on Govt. of India stamp paper worth Rs.200/-.
- (ii) In case of value of supply order above Rs.100000 with warranty for the item, furnish a performance security deposit@3% of the basic cost for the due fulfillment of the contract. This security shall be in the form of FDR in favour of the Director, NIT Calicut payable at SBI, Calicut REC Branch (Code2207) OR Bank Guarantee from any nationalized bank valid for a period of sixty days beyond the contractual obligations including warranty

(c) In case the supplier fails to deposit the required security and execute the contract bond on stamped paper of GOI or Govt. of Kerala (Specimen enclosed) by the due date, contract is liable to be cancelled without prejudice to taking any further action to recover damages for any loss sustained by THE DIRECTOR as result of supplier's refusal to abide by the terms of contract

- (a) Invoice number and date
- (b) Customer name
- (c) Customer and taxpayer's GSTIN (if registered)
- (d) Place of supply
- (e) Item details i.e. description, quantity (number), unit (meter, kg etc.), total value
- (f) Taxable value and discounts
- (g) Rate and amount of GST tax rates.
- (h) Signature of the supplier.
- (i) PAN number should be indicated.

SCHEDULED C - Technical Specification and Delivery Terms

(See Annexure - I)

SCHEDULED D - Format of Quotations

(For use of the bidder. See note below)

Format of Quotations

Quotation Ref. No.:

Last Date :

Sl.No.	Description of Goods (Attach necessary brochures)	Specification	Qty.	Unit	GST	Other Charges (if any)	Total Cost
GRAND TOTAL							

1. We agree to supply the above goods in accordance with the technical specification for a total contract price of Rs. _____ (amount in figures) (Rupees _____ only) (amount in words) within the period specified in the Invitation for Quotations.
2. We also confirm that commercial warranty/guarantee of _____ months shall apply to the offered goods from the date of installation/commissioning.
3. We undertake that in competing for (and if the award is made to us in executing) the above contract of supply of goods. We will strictly observe the laws against fraud and corruption in force in the Republic of India as required by National Institute of Technology Calicut.

Signature of the Bidder

Place:

Date:

Note:

1. Above tabular form is applicable while bids are being invited for more than one item and will be evaluated for all the items together. Modify the format accordingly where evaluation would be

made for each item separately

- 2. Quotations should be submitted on the official stationery of the bidder)

List of Enclosures: (1) Annexure 1

(2) _____ (3) _____

SCHEDULE C :

Sr. No.	Detailed Description	Approx Quantity	Whether Samples are to be sent
1.	Digital Vickers Hardness Tester (Detailed Specification Attached)	1.00 No.	
2.	Fully Automatic Rockwell cum Brinell Hardness Testing Machine (Detailed specification attached)	1.00	

Detailed Specifications for Digital Touch Screen Fully Automatic Rockwell cum Brinell Hardness Testing Machine

This specification combines the essential requirements for both Rockwell and Brinell hardness testing, ensuring that the machine can accurately measure the hardness of various materials.

General Specifications

- **Type:** Digital Rockwell & Rockwell Superficial, Brinell
- **Display:** Touchscreen display
- **Operation:** Fully automatic (load, dwell, unload) with manual options
- **Standards:** Complies with ISO 6506-1, ISO 6506-2, ISO 1566 (Part 1)
- **Indenter:**
 - Rockwell: Diamond cone or ball (1.587 mm or 3.175 mm)
 - Brinell: Tungsten carbide ball (1, 2.5, 5, or 10 mm)

Rockwell Hardness Test Specifications

- **Load Range:** 98.07 N to 29420 N
- **Scales:** Regular (A, B, C, D, E, F, G, H, K) and Superficial (15N, 30N, 45N, 15T, 30T, 45T)
- **Hardness Resolution:** 0.1
- **Magnification:** Eyepiece: 5X & 10X
- **Preliminary Force:** 98.07 N
- **Total Force:** Varies depending on scale (60kgf(588N), 100kgf(980N), 150kgf(1471N); Initial test force: 10kgf(98N))
- **Scaling Constant:** 0.001 mm or 0.002 mm

Brinell Hardness Test Specifications

- **Load Range:** 9807 N to 29420 N
- **Hardness Resolution:** 0.1
- **Magnification:** Eyepiece: 15X, 2.5X
- **Total Force:** 5kgf(49N), 6.25kgf(61.25N), 10kgf(98N), 15.625kgf(153.125N), 30kgf(294N), 31.25kgf(306.25N), 62.5kgf(612.5N), 100kgf(980N), 125kgf(1225N), 187.5kgf(1837.5N), 250kgf(2450N)
- **Ball Diameter:** 1, 2.5, 5, or 10 mm
- **Indenter:** Polished tungsten carbide ball
- **Tolerances for Ball Diameters:** ± 0.003 for 1 mm, ± 0.003 for 2.5 mm, ± 0.004 for 5 mm, ± 0.005 for 10 mm
- **Permissible Repeatability:**
 - HC < 250 HBW: 3.0%

- HC from 250 HBW to 450 HBW: 2.5%
- HC > 450 HBW: 2.0%
- **Permissible Error (Erel):**
 - HC < 250 HBW: ±3%
 - HC from 250 HBW to 450 HBW: ±2.5%
 - HC > 450 HBW: ±2%

Machine Specifications

- **Set Position:** With LCD bar indicator
- **Data Entry:** Through touchscreen
- **Output:** Built-in thermal printer
- **Additional Features:**
 - Automatic load/dwell/unload cycle
 - Manual load and scale selection
 - Test force selection by external dialing
 - Adjustable holding time
 - Various hardness scales and indenter options

Accessories

- Sliding test sets
- Objective lenses (2.5x, 5x, 10x)
- Exterior lighting
- Dust proof cover
- Printer paper
- Adjustable level screws
- Accessory box

Handwritten signature

Detailed Specifications for Digital Vickers Hardness Testing Machine

This specification combines the essential requirements for Vickers hardness testing, ensuring that the machine can accurately measure the hardness of various materials.

General Specifications

- **Type:** Digital Vickers hardness tester
- **Indenter:** Diamond pyramid
- **Standards:** Complies with ISO 6507-1, ISO 6507-2, ASTM E-140, JIS

Test Parameters

- **Load Range:** 0.3 to 30 kgf
- **Holding Time:** 5 to 99 seconds
- **Hardness Resolution:** 0.1
- **Diagonal Length:** 0.020 to 1.400 mm

Machine Specifications

- **Dimensions:** W220 x D580 x H770 mm
- **Weight:** 52 kg
- **Max Test Height:** 260 mm
- **Magnification:** 100x and 200x
- **Data Memory:** Max. 999 test data
- **Load Applying Speed:** 85 micrometres/sec

Operation

- **Automatic Loading and Releasing Method:** Ensures consistent and efficient testing.

Additional Features

- **Touchscreen Interface:** Provides intuitive and user-friendly operation.
- **Data Analysis:** Capabilities for analysing and storing test data.
- **Connectivity:** Options for connecting to computers or networks for data transfer and analysis.
- **Compliance:** Adherence to relevant standards ensures reliable and accurate results.

