



NATIONAL INSTITUTE OF TECHNOLOGY

ROURKELA-769008 (ODISHA)

An Institute of National Importance under Ministry of HRD, GOI

NOTICE INVITING TENDER

Tender Notification No: NITR/PW/CR/2018/40

Dated: 31/07/2018

The National Institute of Technology, Rourkela invites bids from the eligible bidders for procurement of **Computerised Touch Screen Vickers Hardness Tester (1Kgf to 50kgf)** at NIT Rourkela.

Last date of Submission of Bid : 22/08/2018 at 11:00 AM

Opening date of Technical and Financial Bid : 23/08/2018 at 11:00 AM

For Details: http://nitrkl.ac.in/OldWebsite/Jobs_Tenders/9Equipment/Default.aspx

Contact: Prof. Debasish Sarkar , CR; Ph: 0661-2462207;

Email: dsarkar@nitrkl.ac.in

Bidding through: <https://eprocure.gov.in/eprocure/app>

**sd/-
REGISTRAR**



NATIONAL INSTITUTE OF TECHNOLOGY ROURKELA-769008, ODISHA

(TENDER NOTICE NO: NITR/PW/CR/2018/40

dated 31/07/2018)

(Purchase of Computerised Touch Screen Vickers Hardness Tester (1Kgf to 50kgf))

Sl. No.	Description of Goods/Service	Quantity
1.	Computerised Touch Screen Vickers Hardness Tester (1Kgf to 50kgf) (Detailed specification as per attached Annexure – I)	01

- Quantity required** : as mentioned above (All information provided in technical specification in Annexure I)
 - Delivery** : Within **70 days** from the date of purchase order
 - Last Date of submission of Bid** : **22/08/2018 at 11:00 AM**
 - Date of opening of Technical and Financial bid** : **23/08/2018 at 11:00 AM**
 - The firm should not have been black listed at any time.
 - The submission of following bids by the tenderer should be through <https://eprocure.gov.in/eprocure/app>
 - Please follow the guidelines as per the portal.
- Purchase of Computerised Touch Screen Vickers Hardness Tester (1Kgf to 50kgf)**
(Tender Notice No: NITR/PW/CR/2018/40, dated 31/07/2018) Due on 22/08/2018 at 11:00 AM
- Liquidated damage clause will be charged for any delay in supply of goods.
 - The validity of the tender shall be 90 days from the date of opening of the bids.
 - Detailed advertisement including all tender documents is also available in our website at http://nitrkl.ac.in/OldWebsite/Jobs_Tenders/9Equipment/Default.aspx
 - NIT reserves the right to qualify or deny prequalification of any or all applicants without assigning any reasons.

(REGISTRAR)
NIT, Rourkela
Fax No- 0661-2462022
Ph. No -0661-247202

1.Specification for Computerised Touch Screen Vickers Hardness Tester

Computerized Touch Screen Based Vickers Hardness Testing Machine <p>The Vickers hardness test method consists of indenting the test material with a diamond indenter, in the form of a right pyramid with a square base and an angle of 136 degrees between opposite faces subjected to load. The full load is normally applied for 10 to 15 seconds. The two diagonals of the indentation left in the surface of the material after removal of the load are measured using a microscope and their average calculated. The area of the sloping surface of the indentation is calculated. The Vickers hardness is the quotient obtained by dividing the Kgf load by the square mm area of indentation.</p> <p>The Vickers hardness testing machine is a simple and accurate means to produce and measure the diamond indentation. The machine is suitable for measuring the hardness of precision metallic parts with wide testing range – from soft to hard.</p>	
Technical Specifications and Features Required :	
Total Load	1, 5, 10 ,20, 30, 50 Kgf
Digital Hardness value Measurement through PC	Yes
Diagonal Measuring Range (mm)	0.05-0.3
Max. Test Height (mm)	200 or better
Depth of Throat (mm)	135 or better
Optical Measuring Range	0.1-1 mm
Scale Least count(mm)	0.001
Standard	IS 1754-2002 or above
Features	Online indentation setting and focus on PC monitor, User friendly software with windows features, Direct & accurate measurement of Vickers hardness number using “State of the art”image processing technology, Motorized loading and unloading cycles.
Additional accessories	Standard Test Block (01), Diamond Indentors (02), Weights (2 sets), Flat anvil (01), Vee type Anvil (Big & small) (01each), Spanners (02), Electric cord & PC interface cord (01), Video capture (01), Software (01),Instruction manual (02), Machine Cover (01), Reference Test Blocks
Touch Screen Computer System	Tablet touch screen LCD based Windows PC (Dell/HP/Lenovo/Acer/ Branded) capable of supporting the system software and also interfacing with the controller hardware and having output, HDMI and other type port for printer output, pdf format. Full details of each component to be provided.
Installation, NABL Calibration & Commissioning	The bidder should take full responsibility for supply, erection and installation and training of the Machine at the department and performance of the machines demonstrated to the satisfaction of the users. Necessary fittings and fixtures required for the installation will be in the scope of the bidder only.

<p>Maintenance and service support of system during and after the warranty Period</p>	<ul style="list-style-type: none"> ➤ The bidder should provide the list of users of the same machine (viz. IITs, NITs, Govt Universities reputed national Labs like DRDO, NAL etc., reputed public limited firms) along with the satisfaction certificate and their contact details. ➤ Details of the nature of service support the vendor can provide should be provided. ➤ Warranty should be for at least one year after installation. ➤ The bidder should commit to provide maintenance service and supply necessary spares for the machine for at least 10 years after successful installation and commissioning. ➤ One set of operation and maintenance manuals along with all necessary drawings should be supplied along with the machine. ➤ Specimen samples for all the tests that can be performed on the machine must be provided. ➤ The bidder should enclose all the relevant technical documents and catalogues for all the components. ➤ There should be OEM or Authorized agency in India for at least the last 3 years to ensure strong ties inside India for future maintenance/warranty convenience for the machine ➤ Bidders not providing point wise detailed technical specifications of the offered machines in the compliance statement shall be summarily rejected. ➤ Bidder should arrange pre award demo during technical evaluation if required. Institute has the right to reject the bid if pre award demo is not found up to the satisfactory level.
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Others

- Warranty: **12 months** standard warranty from the date of installation.
- Bidders must provide user details of at least 5 national level premier institution of repute where similar instruments were supplied.
- Scanned copy of technical brochure and website reference of the same must be included in the bid.