

DEPARTMENT OF METALLURGY AND MATERIALS ENGINEERING  
Indian Institute of Engineering Science and Technology, Shibpur  
Howrah-711 103

Enquiry No. 06/MET/IIEST/2019-20

4<sup>th</sup> September, 2019

To,  
All the Enlisted Suppliers/Dealers/Manufacturers

Sealed quotations are invited for supply of the Rockwell Hardness Tester for the Dept. of Metallurgy and Materials Engineering. The sealed quotations should be addressed to the Head of the Department indicating enquiry no. with date on the top of the sealed envelope. The sealed quotations should be submitted at the office of the department on any of the working day up to 18/09/2019 till 5.00 P.M.

Technical Specifications for Rockwell Hardness Tester

Serial No.	Parameters	Technical Specifications
1	Materials to be tested	Ceramics, Metals and Alloys, Composites
2	Hardness Indenters To be Provided	For Rockwell and Rockwell Superficial Scales: (i) One standard Diamond Sphero-conical indenter for Rockwell hardness testing (Brale Indenter) (ii) One Tungsten Carbide Ball Indenters with 1/16 inch ball diameter; (iii) One Tungsten Carbide Ball Indenters with 1/8 inch ball diameter; (iv) One Tungsten Carbide Ball Indenters with 1/4 inch ball diameter; (v) One Tungsten Carbide Ball Indenters with 1/2 inch ball diameter; (vi) One standard diamond indenter for superficial Rockwell hardness testing (N Brale indenter)
3	Hardness Scales Available	Suitable standard Rockwell scales and superficial Rockwell scales should be available
4	Total Test loads	15kgf, 30 kgf, 45 kgf, 60 kgf, 100 kgf, 150 kgf;
5	Minor loads	3 kgf; 10 kgf
6	Operation	Manual / Semi-automatic
7	Vise/Anvil	Should preferably be suitable for both regular and irregular shaped work piece; (i) Test table diameter for flat samples: 50 mm or bigger (ii) Test anvil for round/cylindrical samples: With V groove for round jobs with 6 mm to 45 mm diameter
8	Capability to perform tests in Compliance with Standards	ASTM E18-17 or ISO 6508 or equivalent Indian Standard

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9	Electricity Requirements	220 V AC at mains, 50-60 Hz
10	Safety	Should preferably have emergency shut-down switch; Should preferably be CE/ DIN / ISI certified
11	Optional accessories	(i) One Test block for Rockwell B; (ii) One Test-block for Rockwell C; (iii) One Test-block for one Superficial Rockwell scale to be tested using N- Brale indenter (iv) One Test-block for one Superficial Rockwell scale to be tested using tungsten carbide ball indenter
12	Operation Manual	Two hardcopy operating manual along with softcopy should preferably be provided.
13	Delivery and Installation	Equipment to be installed at customer premises in test ready, factory calibrated condition. Room planning including but not limited to civil and electrical work will be executed by supplier. IEST Shibpur will provide main power supply and necessary space only.
14	Warranty	1 year from the date of installation

Terms and conditions:

All rates quoted should include all taxes, levies & duties. Request for inclusion of any tax/levy at later stage will not be entertained.

Transportation, Packing, Forwarding, installation, training and Insurance Charges if any to be charged should be specifically indicated.

Delivery place: IEST, Shibpur

GST applicable will be 5% for research facility of the Institute. The certificate will be provided by the Institute with the Purchase Order

The Institute reserves the right to accept or reject all or any of the quotation without assigning any reason whatsoever. The decision of the Institute shall be final in case of any dispute.

The delivery of items must be completed by 2 weeks from the date of issue of Purchase Order.

Bills in Triplicate should be presented for payment within 07 days of supply/completion of Items / work.

The Order no. is to be noted on both challan & Bill.

All bills are to be accompanied with the order copies and challans.

Payment will be made within 90 days from Submission of proper bills; challans etc. by A/c payee cheque or NEFT. No Cash payment will be made under any circumstances. No advance payment can be made All payments are subjected to statutory deductions as and when applicable.

For Foreign Purchase (This clause is applicable only for foreign purchase and not applicable for Indian purchase)

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i) Payment will be made through Letter of Credit/Bank Transfer. AWB, Packing list, Warranty certificate, etc. should be provided.

SELECTION WILL BE MADE PURELY ON ESSENTIAL TECHNICAL DOCUMENTS. The IESTS authority will evaluate and compare the quotations (the gross amount i.e. inclusive of all taxes, other charges etc.) determined to be substantially responsive i.e. which- (a) meet the qualification criteria specified in the tender, (b) Are properly signed, and (C) Conform to the terms and conditions, specifications without deviations.

Only one best quality item (according to our specification) should be quoted against each item. On no account should different qualities e.g. A, B, & C of items be quoted. Those items that have been quoted as per different qualities (In contravention to the specifications) will not be considered at all and will be summarily rejected.

Based on our specifications, Brand must be clearly mentioned in the quotation, without which quotation will not be considered.

All the items will carry a guarantee for a period of 12 months from the date of delivery. Guarantee for all the items supplied will be on 'all comprehensive' basis, i.e., including repairs, replacements, maintenance etc.

The bidder must submit photo copy of valid Trade License, GST certificate, Professional tax certificate, Cancel Cheque and PAN card along with the quotation.

*ghosh w. 04/09/19*  
(Manojit Ghosh)

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Copy forwarded for information to:  
Institute Website, IEST, Shibpur, Howrah-711103

For details the vendors may contact Dr. Kaushik Das (Mobile No. (9438169526) during working hours.