

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

Tender Notice

Sealed tenders are invited for purchase of following items in Department of Physics, M.D. University, Rohtak:-

- | | |
|-----------------------------------|----|
| i) Table-top X-Ray Diffractometer | 01 |
| ii) DSC/TG Analyzer | 01 |

Tender for each item should be accompanied by (i) a Demand Draft for prescribed Tender Fee and(ii) a Demand Draft for the earnest money equal to 2% of the quoted rates on the total amount involved in favour of Finance Officer, M.D. University, Rohtak so as to reach the Department of Physics upto **27-12-2012**. The tender should comprise of Technical Bid along with Demand Drafts for Tender fee and Earnest money in one sealed envelope and Financial Bid in other sealed envelope. The detailed specifications and Terms and Conditions can be obtained from the Department office, or be downloaded from the University website www.mdurohtak.ac.in.

REGISTRAR

Table-top X-Ray Diffractometer

Specifications:

1.	X-ray tube	Standard Cu target
2.	X-ray power unit	<ul style="list-style-type: none"> • Suitable Generator for X-ray tube of capacity 600W or more. • HT Stability better than +/-0.01% for Mains stability +/- 10 %. • Necessary software and hardware for diagnostics capable of checking the equipment parameters/calibration etc.
3.	Optics	Fixed Slits as per powder applications requirements.
4.	Sample Stage	Rotating Sample Stage with spinner (variable speed option) with suitable sample holders for powder samples.
5.	Goniometer	High Precision, vertical type Goniometer with theta two theta Geometry covering range of -3 to +145°
6.	Detector	Scintillation NaI crystal detector should be quoted with basic system.
7.	Software	<p>Software should have a provision for the following:</p> <ul style="list-style-type: none"> • Software controlled active operations • Simultaneous data collection and data processing facility • Various facilities such as peak search, peak match, and pattern treatment such as data smoothing, background subtraction, 2θ correction, 3D multiple pattern display, Kα₂ calculation and removal, integrated intensity calculation, relative intensity ratio (RIR) quantitative analysis and crystallite size.
8.	Computer systems	Latest PC, laser color printer, necessary software for operation and data acquisition, analysis
9.	Installation and commissioning	The instrument to be installed tested and commissioned by representative of supplier at our premises to the satisfaction of user free of cost.
10.	Training	The supplier should provide the training on the site free of cost.
11.	Safety	The system should be housed in a high safety standard radiation enclosure as per international norms.
12.	Delivery	F.O.R., Department of Physics, M. D. University, Rohtak
13.	Standard Accessories	Al sample plate, glass sample plate, rectangular glass plate, O-rings, Standard Si sample etc.
14.	Supporting accessories	Chiller, 5 KVA UPS along with battery rack etc.

DSC /TG Analyzer

Specifications

Instrument should provide simultaneous measurement of heat flow i.e. DSC (Differential Scanning calorimeter) and weight change i.e. TGA (Thermal gravimetric analyzer) as per specification given below:

- System design: horizontal balance and furnace
- Temperature range : Ambient to 1500°C
- Balance sensitivity/resolution = 0.1 µg
- Software/s have a real time ref./real time calculation and data analysis
- Calorimetric Precision: better than $\pm 5\%$ (based on metal standards)
- Dual digital mass flow controllers for software control of horizontal purge gas flow rate (up to 1 liter/min.) and automated switching of purge gas
- Flow rate is programmable in the software, and deliverable as saved signal in the data file
- Platinum and alumina crucibles
- Furnace cooling forced air/ chiller with rate 1500 °C to 50 °C in less than 30 min or better
- The instrument to be installed tested and commissioned by representative of supplier at our premises to the satisfaction of user free of cost
- Delivery: F.O.R., Department of Physics, M. D. University, Rohtak
- The supplier should provide the training on the site free of cost

Accessories

- Standard accessories along with Latest PC, color printer etc.

MAHARSHI DAYANAND UNIVERSITY, ROHTAK.
DEPARTMENT OF PHYSICS

TERMS AND CONDITIONS OF THE TENDER FOR SUPPLY OF EQUIPMENTS

The equipment/s as per specification given overleaf /attached are to be purchased for the department. You are requested to kindly quote your rates for the same. The following terms and condition for quoting the rate may kindly be kept in view while you do so.

1. All charges payable by University should clearly be stated.
2. Sealed quotations/ tenders should be addressed to the Head, Department of Physics, M. D. University, Rohtak and reach the office of the undersigned on or before 27.12.2012 quoting our reference and due date of opening on the envelope
3. The quotations/tenders should be submitted only if material is available in your ready stock or can be supplied within one month after the order is place. The Tender should comprise of Technical Bid along with Demand Draft for Tender fee and earnest money in one sealed envelope and Financial Bid in other sealed envelope.
4. The quotations/tenders will be opened in the office of the undersigned by the purchase committee on 28.12.2012 at 11:00 a.m. in the presence of the parties or their representatives whosoever like to be present. The Committee reserves the right for negotiation thereafter if considered necessary.
5. An amount of 2% of quoted amount only in the shape of bank draft in favour of Finance Office, M.D. University, Rohtak as earnest money should accompany the quotations/ tender, in absence of which the quotations/tenders will not be entertained.
6. Tender received without earnest money or after due date shall not be entertained except with special approval of the Registrar. All rates should be quoted for 'FOR' Physics Department, M.D. University, Rohtak. The process of custom clearance will be the responsibility of the supplier. Charges such as transit insurance etc. should be mentioned separately, if any.
7. As far as possible, the rates should be quoted for the make and specifications of the items given. In case any alternative/equivalent item is offered its specification and leaflets may be sent with the tenders/quotations. The sample of material should accompany the tender/ quotations for records.
8. Guarantee/warranty period for equipments should be clearly specified/ mentioned. The AMC charges/ year should be quoted separately.
9. The payment can be made in foreign currency/T.T. as per rules. 100% percent payment will be made on the receipt and inspection of goods/items to ensure the specifications and their good conditions by the inspection Committee. However, this condition may be relaxed in deserving cases.
10. If your rates are approved by the DGS&D and other central or state Agency, the rates of the same must be quoted and the copy of the rate contract be attached.

11. Tender must be submitted by either manufacturer or their authorized dealer/distributors. Authorization letter in proper format must be attached with tender otherwise bids will not be considered. Authorization letter should be on Letter Head of manufacturer and should be signed and stamped. Tenders from dealers will be rejected without proper authorization letter from the manufacturers.
12. The University stands exempted from the payment of Central Excise Duty/Custom Duty. The rates be quoted keeping that fact in view, Necessary certificate will be provided by the University.
13. If a holiday occurs on the opening day, the tenders will be opened on the next working day.
14. The tenders received not in proper sealed cover shall not be considered and will be liable for rejection in a straightway.
15. In the case contractor/supplier backs out of his contract, the earnest money deposited by him shall be forfeited besides any other action as may be considered by the Vice-Chancellor.
16. Dispute if any, will be subject to Rohtak jurisdiction.
17. The University reserves the right to reject any or all quotations/tenders without assigning any reason thereof.

Head,
Department of Physics