

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

No. F5 (273) ST/MNIT/METT/2011

Phone : 0141-2713312,2713352

Fax No. : 0141-2529029

To,

M/s

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NOTICE INVITING QUOTATIONS

1. Quotations are invited for the supply of Equipments required for Metallurgical & Materials Engineering of this Institute as per list attached by **11.01.2012 at 02:00 PM**. The quotations will be opened at **03:00 PM on 11.01.2012**. The covers containing the quotations must be marked **"QUOTATION FOR METALLURGICAL & MATERIALS ENGINEERING EQUIPMENT DUE ON 11.01.2012 AT 02:00 PM."**
(TWO BID SYSTEM WILL BE FOLLOWED ALL THE BIDDER ARE REQUIRED TO SUBMIT TECHNICAL AND FINANCIAL BIDS IN SEPARATE ENVELOPS FOR EACH DEPARTMENT .EMD SHOULD BE SUBMITTED WITH THE TECHNICAL BIDS.)
2. **THE RATES QUOTED SHOULD BE F.O.R. JAIPUR** inclusive of all charges e.g. packing, forwarding local taxes, railway freight, transit insurance, for outside firms and free delivery at Institute stores in the case of local firms. The rates may also be quoted separately "ex-godown/F.O.R. dispatching station. In case of Ex-Godown rates, please mention your packing and forwarding charges. Where there is no mention regarding delivery period in the quotations or where the items are offered ex-stock, the firms will be required to supply goods within one-month time.
3. Quotations should preferably be given only for those articles, which are available ex-stock. Other items should be quoted separately giving the delivery period. Rates of imported goods be quoted excluding custom duty as this institution is exempted from payment of custom duty. The rates of indigenous equipments may be quoted without Excise Duty as this institute is exempted from payment of Excise Duty.
4. As far as possible, quotations should be given for goods of India manufacture and foreign goods, which are readily available. Foreign goods quoted and proposed to be supplied should be covered by normal import quota of the dealer. This institute is exempted from payment of custom duty.
5. Detailed specifications and "make" of each item should be clearly given supported by the illustrated pamphlets wherever possible. Quotations without specifying the make and other particulars may be rejected. The payment will be made after the goods have been received, opened, checked and found to be in order up to our entire satisfaction. The accessories included in the equipment should also be clearly mentioned.
6. Losses or damage in transit will be in to the account of the supplier in case of rates **F.O.R. JAIPUR**. The supplier may, if he so desires, get the goods insured and include such charges in the tendered rate.
7. The payment for the ordered items would be made after the articles have been received and found in order. Normally payment shall be made through a crossed cheque within 30 days of the receipt of goods.

8. Your rates should be valid at least for three months from the last date of receipt of quotations.
 9. All legal proceedings, if necessity arises to institute may be any of the parties (Institute or Contractor/Supplier) shall have to be lodged in the courts situated at Jaipur and not elsewhere.
 10. The undersigned is not bound to accept the lowest tender and may reject any tender or any part of the tender giving justification for such an action.
 11. The rates must be quoted item-wise by giving Serial No. of our enquiry letter.
 12. The quotations should preferably be sent duly typed.
 13. (a) The Penalty Clause is as under :-

Should the tenderer fail to deliver the goods within the period specified in the tender form the Institute may, at its discretion, allow an extension in time subject to recovery from the tenderer as agreed liquidated damages, and not by way of penalty, a sum equal to the percentage of the value of stores which the tenderer has failed to supply for period of delay as stated below: -

(i)	Delay up to one month	1%
(ii)	Delay exceeding one month but not exceeding two month	2%
(iii)	Delay exceeding two month but not exceeding three month	5%
(iv)	Delay exceeding three month	5% for each month and part there of subject to maximum 10%
 - (b) In case of failure to supply the goods within the prescribed time and in accordance with the specifications given in the Quotations, the institute shall be free to cancel the order and make purchases from the next higher tenderer or from the open market as the case may be. In that case the loss sustained by the institute shall be recovered from the defaulting supplier. The institute will be at liberty to recover the loss from the permanent earnest money/or any other pending claims of the supplier without prejudice to its general right to affect recovery from the supplier.
 14. EARNEST MONEY: A Demand Draft for Rs. @ 2% of the quoted cost only in the name of the Registrar, M.N.I.T. may please be sent along with your tender as Earnest Money **without which no tender shall be considered. Cheques are not accepted as earnest money amount.** No interest is paid by us on the amount of earnest money.
 15. Successful bidder will have to furnish. Performance security @ 10% of the equipment cost, valid for one year two month in the form of Bank's Guarantee from Nationalize Bank.
- Note Equipments Specification are as per list attached.

ASSISTANT REGISTRAR
Stores & Purchases

S.No.	Name of the Equipment with brief specification	Qty
1.	<p>Differential Scanning Calorimeter (DSC)</p> <ul style="list-style-type: none"> • Standard set up with operating temperature: Room temperature to 700°C • Provision for usage at sub-ambient temperature. • Temperature accuracy: $\pm 0.1^{\circ}\text{C}$ (Temperature precision : $\pm 0.05^{\circ}\text{C}$) • Variable heating and cooling rates. • Good resolution of calorimeter and microbalance (0.2μ g or better sensitivity) • Sample crucibles with caps: Cu, Al, Pt • Crimper system for sealing samples. • Liquid nitrogen cooling accessory (Optional) • Atmosphere: Pure inert and oxidizing atmosphere • Automatic gas switching [air, N₂ Inert gas or O₂ (optional)] • Digital display. • Plotter/Inkjet printer • Sensitivity : 0.2μW • Software for thermal analysis, data collection, instrument calibration, data optimisation, evaluations such as peak, glass transition, phase transition, etc. <p>Model must be latest. List of Organizations where the Model is installed must be supplied.</p>	01
2.	Digital Micrometer	01
3.	<p>Water Jet Erosion Tester Compressor-50 lpm, 10 bar Slurry velocity upto 40 m/s Nozzle dia. 4.5 mm Sample velocity up tp 10 m/s Weight balance 0.1mg accuracy Multiple sample testing, stirring, automated sequence, splash guard, specimen angle variation facility.</p>	01

4.	Automatic Mounting Press LCD display with backlit lighting, Imperial or metric units, 1"-2" (25 mm - 50 mm) Duplex mold capacity, 1500 Watt (15 V-220 V mains) or 1200 Watt (100 V mains) heater & water cooled mold, Mold assembly with duplex spacer 1". With all accessories.	
5.	Microhardness Tester Highest reliability and repeatability, LCD touch screen panel, Hardness conversions, Computer attachment for microhardness measurement and effective case depth graphs plotting, Load range: 5 gm to 2000 gm. (Optional 5 gm, 3000 gm), Vickers and Knoop options. With all accessories.	1
6.	Electronic Tensometer (Table top horizontal universal testing machine) Capacity 20 KN max. (2000 kg.), Dimension H 300 x W 700 x L1050 mm approx., weight 60 kg., Speed-servo drive, speed variation through computer control system (0.2 to 500 mm/min), Least count ±0.05% of load cell Accuracy 1%, Test results: All the details regarding test on computer, Computer controlled machine, test data saved on PC directly, over load and over travel protection. With all accessories.	1
7.	Rectifier Unit Rectifier with rated output of 25 V & 15 Amp Variac (Input 230V Output 0- 250 V) Step down transformer 230/15 V, 20A Rectifier bridge consisting of four diodes of 50 A each should be mounted on heat sink.	5
8.	Potentiostat/ Galvanostat 600mA, potentiostat with USB interface Cell cable(1.5m) and interconnecting ribbon cable GAMRY electro chemistry framework software V5 (CD-ROM) UDC 3 Universal Dummy Cell Hardware and getting started manual Gamry DC 105 Corrosion Techniques Software Gamry EIS300 Electrochemical Impedance Spectroscopy Software (EIS) Euro cell Kit including Saturated calomel reference electrode, Reference electrode filling solutions (120 ml) and Teflon heat shrink tube (pkg of 5)	1
9.	Digital Bond Strength Tester Capacity : 10 kgs. Accuracy: 2 gm Speed: 300 mm/mt	1
10	Standard Penetrometer Digital operated version. Brass Cone, container, 1No. 50gm. Wt.	1
11	Digital Dry Film Thickness Gauge Top thickness gauge	1

	<p>Rugged aluminium case EDTS Excel link and EDCS WIN Software 10000 reading memory Full statistical analysis - mean, standard deviation, highest and lowest value Password protection Printer Standard Probe for above Range: 0-1500 micron</p>	
12	<p>Automatic Electric operated Scratch Hardness Tester</p> <p>Capacity : 10kg.</p> <p>2 Nos. Tungsten Carbide Needle, 1 set of 2kg. weight</p>	1
13	<p>Sand Testing Equipments</p>	
	<p>(a) Sand Washer Motor 1/20 HP Single Phase, Cycles - 50 Speed Regulator Timer, Glass Jar, Syphon, Wash Bottle, Sieve - 53 Microns Dia. 100 mm</p>	01
	<p>(b) Sand Seiver Motor 1/8 HP Single Phase, Cycle 50Hz & Timer 0-15 min. Sieve set as per ISS No.53, 75, 106, 150,212,300, 425, 600, 850, 1700 Microns Dia. Of Sieve 200mm</p>	01
	<p>(c) Sand Rammer With Sliding Weight, Lifting and Ramming Cam, Specimen Tube, Pedestal Cup and Stripper</p>	01
	<p>Attachement to Sand Rammer Base Block; Tube Filler; Tensile Core Box; Transverse Core Box; Split Specimen Tube; Compatibility Tester; Flow ability Tester</p>	1 set
	<p>(d) Permeability Tester With ir Tank, Water Tank, Manometer Unit, Permeability Chart, 2 Orifices and Syphon Unit</p>	01
	<p>Attachements to Permeability Tester Mould Permeability Tester; Core Permeability Tester; Base Permeability Tester</p>	1 set
	<p>(e) Universal Strength Machine (Hydraulic) Suitable for compression strength, tensile strength, transverse strength with the help of attachment, capacity 15 Kg/Cm² on compression scale with motorized loading mechanism, loadcell, digital strength indicator and compression pads</p>	01
	<p>Attachements to Strength Machine High Dry Strength Attachment ; Shear Strength Attachements; Tensile Strength Attachements; Transverse Strength Attachements; Splitting strength Attachments; Twin Transverse Strength Attachments; Deformation Attachments</p>	1 set
	<p>(f) Rapid Drier Infra Red Lamp, 275 Watts, Drying Chamber Drying Pan</p>	01

(g) Rapid Moisture Tester Capacity 10% Moisture with single pan balance, Absorbent Compound and Carrying case	01
(h) Mould Hardness Tester (B Scale) With Digital Dial Indicator to measure hardness of Mould 0-100 No.	01
Mould Hardness Tester - Digital (B Scale)	01
Mould Hardness Tester (C Scale) With Dial Indicator to measure Hardness of Mould 65-100 Nos.	01
Core Hardness Tester With Harden Tip, Dial Indicator to measure Hardness of Cores From 0 to 100 Nos.	01
Hot Tensile Tester Teflon coated two hot plates, controlled by Digital temperature indicator and controller (0-300 deg C); Loading and unloading mechanisms operated by manually and auto by electronic control; Digital pressure indicator to read tensile strength up to 55 kg/cm ² ; Load cell; Hard chrome plated tensile jaw set; Waste sand collection tray; Jaw lifting tongue; Sand filler cum scrapper; Cleaning brush; working on 230 Volt, 50 cycle, 1.6 KW and AC Power Supply.	01
(i) Hot Tensile Tester (Automatic Advanced Computer Interface) Teflon coated two hot plates, controlled by Digital temperature indicator and controller (0-300 deg C); Loading and unloading mechanisms operated by manually and auto by electronic control; Digital pressure indicator to read tensile strength up to 55 kg/cm ² ; Load cell with computer interface, with data wireless communication, printer out put facility advance display memory storage etc.; Hard chrome plated tensile jaw set; waste sand collection try; Jaw lifting tongue; Sand filler cum Scrapper; Cleaning Brush; Working on 230 Volt, 50 cycle, 1.6 KW and AC Power supply.	01
(j) Cold Tensile Attachment to H.T.S. Machine Contains standard specimen Jaw	01
(k) Stick Point Tester With heating unit. Sand Distributor Digital temperature indicator and controller, Brush	01
(l) Peel Back Tester Heater - 1000 watts, 230 Volt, AC supply with Thermostat, Heating plate, Funnel and two trays.	01
(m) Core Gas Determinator Heater-1200 kWatts, 230 Volts, AC supply with furnace of 1200°C capacity, Digital temperature indicator cum controller, combustion tube, boats, pusher measuring tube.	01
(n) Infrared Moisture Tester	01
15. Deionized Water Plant	01
16. Somolier Attrition Mill Double walled stainless steel chamber & impellers of 2lt. capacity, media balls (.65 to 2 mm), 3 HP motor, rpm up to 4000.	01

ASSISTANT REGISTRAR
CENTRAL STORES

