

# MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

No. F5 (405) ST/MNIT/MECH/2011

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To,

M/s .....

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## NOTICE INVITING QUOTATIONS

1. Quotations are invited for the supply of Equipments required for Mechanical Engineering Department 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 MECHANICAL ENGINEERING (Central Workshop) 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

<p><b>Angle grinder</b></p>	<p><b>22.5cc Petrol Angle Grinder with 2,800 to 3,000rpm Rated Speed and CDI Ignition</b></p> <p>Engine type: single-cylinder, air-cooling, two-stroke gasoline  Displacement: 22.5mL  Maximum output power: 0.65kW/7,500rpm  Maximum diameter of abrasive wheel: 180mm  Rated speed: 2,800 to 3,000rpm  Ignition method: CDI  Carburetor: diaphragm type  Starting method: manual start  Oil tank volume: 0.4L</p> <p style="text-align: center;"><b>or</b></p> <p><b>2,350W Angle Grinder with 50/60Hz Rated Frequency and 180mm Wheel Grinder</b></p> <p>Grinding wheel diameter: 180mm  Rated voltage: 230V/110V  Rated frequency: 50/60Hz  Rated input power: 2,350W  No load speed: 80,700rpm</p>
<p><b>Power hand drilling machine</b></p>	<p>750W Power Hand Drill with 0 to 1,200rpm No-load Speed and 50Hz Frequency</p>
<p><b>Universal wood working Machine</b></p>	<p><b>Specifications/Special Features:</b></p> <ol style="list-style-type: none"> <li>1. Working size(mm). Width: 20-230. Thickness: 8-160.</li> <li>2. Tool size. Id of tools: dia 40.</li> <li>3. Od of 1# bottom spindle: dia 110-145. Other spindles: dia 110-200.</li> <li>4. Dust outlet diameter: dia 150.</li> <li>5. Length of working table: 2350mm.</li> <li>6. Weight (tons approx): 5t.</li> <li>7. Size(mm): 4800*1750*1750.</li> <li>8. Feeding motor power: 4kw. 1# bottom spindle: 5.5kw. L&amp;r spindle: 5.5kw. 1# top spindle: 7.5kw. 2# top spindle: 5.5kw. 2# bottom spindle: 7.5kw.</li> </ol> <p>Total motor power: 42kw.</p> <p>Advantage: 1. Groups of bottom rollers to assure feeding smoothly. The first bottom feeding rollers is moved up-down with the working table. 2. Adopted upturning short pieces device. 3. High speed spindle is made by alloy steel and assembled skf bearings inside. 4. Centralized lubrication system. Slide parts and working table are lubricated by two manual oil pumps separately.</p>
<p><b>Air compressor</b></p>	<p>Motor power: 10HP or 7.5kW  Tank capacity: 250L  Number of cylinders: 3 (Ø90mm)  Stroke: 70mm  Wheel diameter: 370mm  Air delivery: 1,000L/minute  Maximum pressure: 115psi or 8 bar  Speed: 900rpm  Air pump capacities: 2, 3, 4, 5, 7.5, 10, 15 and 30HP (optional)  Air tank capacities: 24, 50, 60, 80, 100, 120, 150, 160, 200, 250, 300, 400, 500 and 1,000L (optional)  Electric motor and gasoline or diesel engine drives (optional)  Pressure: 8, 10, 12, 14 and 20 bar</p>
<p><b>Pneumatic riveting, notching and punching machine</b></p>	<p>71 Pieces Air Pneumatic Tool Kit</p>

<b>Weighing Machine</b>	<b>Specification</b>	
	Standard Capacities	
	Platter Size	500x500mm SS
	300kg	
	Power Supply	Main / Battery
	Display Digit	7 Digit
	Display Size	Pole
	Number of Keys	3 keys
	Battery Charger	Yes
	Battery	Yes
	Remote Control	No
	Number of characters on Display	7 Digit
	Color	Red
	Storage Capacity	No
	Outer Body	Plastic
	Message Languages	Numric
	Display	7 Digit (pole)
	Function	Power On, Power Off, Tare, Func
	Power	Mains/Battery (6V/4Ah)
	<b>Gas/Oil burner</b>	1.electronic ignition 2.filled with vapor,safety switch 3.adjustable flame size 4.rubber grip 5.with function of locking fire
<b>Winding machine</b>	Pay off spool: 12 ends * Preset counter meter * Auto stop * Bobbin: Any size * Speed 1000 to 1200 RPM * Pitch Variable and Manual Adjust * Pitch Control By Spring * Automatic tension control	
<b>Digital Multimeter</b>	*Display : 3¾ digits (4000 Counts) * Display size : 13 mm * Conductor size : 26mm * Basic Accuracy : ±(0.3%rdg+4dgts) Functions: * AC Current: 0.01A ~ 600A ( Via Clamps) * AC/DC Current: 0.1µA ~ 2000 µA ( Via Terminals) * DC Voltage: 0.1m V ~ 600 V * AC Voltage: 0.001V ~ 600 V * Resistance: 0.1Ω~ 40MΩ * Capacitance: 0.1Nf ~ 3000µF * Frequency: 5Hz ~ 100KHz	
<b>Tong tester</b>	* Display : 3¾ digits (4000 Counts)	

	<p>* Display size : 13 mm  * Conductor size : 26mm  * Basic Accuracy : <math>\pm(0.3\%rdg+4dgts)</math>  Functions:  * AC Current: 0.01A ~ 600A ( Via Clamps)  * AC/DC Current: 0.1<math>\mu</math>A ~ 2000 <math>\mu</math>A ( Via Terminals)  * DC Voltage: 0.1m V ~ 600 V  * AC Voltage: 0.001V ~ 600 V  * Resistance: 0.1<math>\Omega</math>~ 40M<math>\Omega</math>  * Capacitance: 0.1Nf ~ 3000<math>\mu</math>F  * Frequency: 5Hz ~ 100KHz</p>	
<b>Lux meter</b>	RANGE	0 to 50000 Lux in 3 ranges of 0 to 2000, 0 to 20000 and 0 to 50000 Lux. Range is provided with front panel control.
	ACCURACY	$\pm 5\% \pm 2$ least counts.
	RESOLUTION	1 in the range of 0 to 2000 Lux. 10 in the range of 0 to 20000 Lux. 100 in the range of 0 to 50000 Lux.
	DATA HOLD	Data hold facility is provided.
	DISPLAY	3½ Digit, 7 segment LCD type of 12.5mm height. X10, X100, data hold and low battery indications are provided
	SENSOR	Separately attached light sensor allows user to take measurements at an optional position.
	POWER	9 volts battery.
<b>Multiple power supply</b>	<p>Triple Output Programmable DC Power Supply</p> <ul style="list-style-type: none"> <li>• 3 independent, fully programmable and electrically isolated outputs</li> <li>• Display &amp; adjust Voltage and Current settings for all 3 channels simultaneously</li> <li>• Flexible output configuration: Operate in series or parallel tracking mode</li> <li>• SCPI compatible command set. Communicate via USB interface using the included USB to TTL Serial Converter cable</li> <li>• RS232 interface cable, converting from RS232 to TTL, is optional (order IT-E131)</li> <li>• OVP (Over Voltage) and OTP (Over Temperature) protection</li> <li>• Output on/off control</li> <li>• Excellent stability and regulation</li> <li>• Very compact foot print (rack mountable 2U x 1/2U)</li> <li>• Application Software for front panel emulation and simple test sequence generation included</li> <li>• 50 memory locations for instrument state storage &amp; recall</li> </ul>	
<b>Digital storage type CRO</b>	<p>4 Channel Color Digital Storage Oscilloscope Specifications  200MHz / 100MHz / 60MHz Bandwidth on all Four Channels  1GS/S Real Time and 25GS/s Equivalent Time Sampling  25K Points Memory Length  Large 5.6" TFT Colour LCD Display for Comfortable view of Signals  USB Host / Device Interface  USB Printer and Flash Drive Support  RS-232 Interface  Battery Operation (Optional)  Auto Set for Comfortable View of Unknown</p>	

	<p>Signal  Save Setup for 20 Measurement Setup and  24 Sets of Waveform  Sweep Time 1ns to 10sec/div</p>
<b>Function Generator</b>	<p>Frequency Range: 0.2Hz to 20MHz in 8 overlapping decade ranges with fine adjustment by a vernier.  Vernier Range: &gt;10:1 on each range.  Vernier Accuracy: Typically <math>\pm 5\%</math> of full scale.</p> <p><b>Sweep Mode External</b>  Input Impedance: 82 k<math>\Omega</math>  Sweep Range: Typically &gt; 20:1  Input Sensitivity: Typically 0 to 2V for 10:1 sweep  Max. Input Voltage: <math>\pm 10V</math>  Max. Slew Rate of sweep voltage: 0.1V/us</p> <p><b>Operating Modes</b>  (Specifications apply for the top decade of each frequency range and output 10V peak-to-peak into 50<math>\Omega</math> termination).</p> <p><b>Sine</b>  Distortion: Typically 2% on 200, 2k and 20k ranges.  Amplitude Flatness: <math>\pm 0.2dB</math> to 200kHz; <math>\pm 2dB</math> to 20MHz.</p> <p><b>Triangle</b>  Linearity: Typically 99% on kHz ranges.</p> <p><b>Squarewave</b>  Rise and Fall Times: &lt;22ns  DC Range: <math>\pm 10V</math> from 50<math>\Omega</math></p> <p><b>Symmetry</b>  Symmetry Range: Typically variable from 1:6 to 6:1 up to 500kHz.</p> <p><b>Outputs</b>  50 Ohms  Three switch-selectable ranges with 26dB vernier control within each range.  0dB Range: 1V to 20V peak-to-peak (0.5V to 10V into 50<math>\Omega</math>).  -20dB Range: 100mV to 2V peak-to-peak (50mV to 1V into 50<math>\Omega</math>)  -40dB Range: 10mV to 0.2V peak-to-peak (5mV to 0.1V into 50<math>\Omega</math>)  DC Offset Range: <math>\pm 10V</math> from 50 W. DC offset plus signal peak limited to <math>\pm 10V</math> (<math>\pm 5V</math> into 50<math>\Omega</math>). DC offset plus waveform attenuated proportionally in -20dB and -40dB position.</p> <p><b>General</b>  Power: 230V or 115V nominal 50/60Hz, adjustable internally; operating range <math>\pm 14\%</math> of nominal; 30VA max. Installation Category II.  Operating Range: +5°C to + 40°C, 20% to 80% RH.  Storage Range: -10°C to +65°C  Environmental: Indoor use at altitudes to 2000m, Pollution Degree 1.  Electrical Safety: Complies with EN61010-1.  EMC: Complies with EN55011 and EN50082-1.</p>

	Size: 220(W) x 82(H) x 230(D) mm, (10.3 x 3.4 x 9.2") excluding feet. Weight: 1.5 Kg (3.3lb).
<b>Sound level meter</b>	Digital 35 to 130 dB 3 Ranges
<b>Anemometer</b>	HOT Wire Anemometer with Antenna (AM 4205)
<b>PH Meter Digital</b>	0 to 14pH Resolution 0.1 pH
<b>Conductivity meter</b>	Digital upto 1990ppm Resolution 10ppm
<b>TDS Meter</b>	10-1990 PPM or 100-10000 PPM
<b>Vibration meter</b>	Digital 1-1999 Microns Displacement
<b>Flux meter</b>	Digital EMF Tester (Electro Magnetic Field)
<b>Gauss meter</b>	Digital Magnetic Power Tester 0 to 20000 gauss
<b>Moisture meter</b>	Digital Moisture Meter for Soil, Paper, Wood etc
<b>Grain Moisture</b>	Digital Moisture Meter for grains, wheat etc
<b>D.O. METER</b>	Dissolved OXYGEN Tester (DIGITAL)
<b>Gas leak detector</b>	TPI Pump Style Refrigerant Gas Leak Detector
<b>LPG Gas leak detector</b>	Domestic LPG Gas Leak Detector
<b>Soldering and Desoldering Iron</b>	Power Consumption 75W Temperature Range 200-450°C (400-840°F ) Temperature Stability ±5°C (±9°F ) Power consumption 70W(24V) Tip to Ground Resistance <2Ω Tip to Ground Potential <2mV Cord 1.2m Total length (w/o cord): 188mm with 2.4D tip Weight (w/o cord): 30g with 2.4D tip <b>Soldering Station</b> <b>Output voltage 24V</b>
<b>Digital Earth Tester</b>	<ul style="list-style-type: none"> <li>• <a href="#">Micro Processor Autoranging Digital Earth Tester</a></li> </ul> <p>Micro Processor Autoranging Digital Earth Tester is direct replacement of the conventional hand generator type tester. It is designed for measurement of the resistance of earthing used in the electrical equipment as well as for measurement of ground resistivity. It can also used for measurement of the other low regular &amp; liquid resistances.</p>
<b>Computer</b>	Specification: Processor- i5 with II Generation Hard Disk -500GB SATA RAM- 4 GB HD Graphics Card Monitor-17"
<b>Printer</b>	All-in-one(Photocopy, printing, Fax, Scan) color laser jet
<b>LCD projector</b>	Micro Portable LCD Projector, Daylight View 2 Technology, Easy Wireless Projection, High Power And Portability, High Speed Data Transfer

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