

Price Rs. 1000/-

## **Tender Form**



**Tender Form for supply of  
Equipments/Instruments/Machine/Articles etc.  
Under UGC SAP-DRS-I Programme**

**Contact**

**Head  
Department of Geology  
Rashtrasant Tukadoji Maharaj Nagpur University  
Rao Bahadur D. Laxminarayan Campus  
Nagpur -440 001**

**Department of Geology**

**Details of equipments to be purchased under UGC SAP-DRS-I Programme**

<b>1. Trinocular Petrological/ Polarisation Microscope with Camera</b>	<b>01 No.</b>
<b>Technical Specifications:</b>	
LED Stand with 4 Position centerable nosepiece, Koehler Illumination, Polarizer for Transmitted Light, Add on lens for Condensers, Universal Power Supply, circular rotating stage with graduations and adjustable brake, LED illumination, built in handle and cord wrap, objective centering tools, 2 object clamps, blue Filter, dust cover.	
Module with slot for Analyzer Sliders	1
30 degree Trinocular Pol Tube with eyepiece locking mechanism, and orientation key in right eyetube for the crosshair reticle eyepiece	1
Pol Abbe Condenser 0.85	1
Reticle for eyepiece - 100Divisions	1
Analyser IC/P, non rotatable, for DMLB/DMLP (TL)	1
HI PLAN 4x/0.10 POL -, 12,1	1
HI PLAN 10x/0.25 POL free working distance: 12.0 mm For use with and without a Cover Glass Low strain, for quantitative polarization	1
HI PLAN 40/0.65 POL Free working distance: 0.36 mm for use with a 0.17 mm cover glass for quantitative polarization, low strain	1
N PLAN 100x/1.25 OIL POL Free working distance: 0.12 mm For use with and without Cover Glass Low strain, for quantitative polarization for DIC (prism D/D1)	1
Focusing eyepiece 10x/20 with eyeguard, Crosshair reticle	1
Focusing eyepiece 10x/20 w/ eyeguard	1
India power cord	1
Micrometer stage	1
<b>Digital Camera for Image Documentation only</b>	<b>1</b>
Digital camera with sw kit, colour digital camera for on-screen microscope image display, resolution (No. of pixels) 2048x1536, 3.1 Mpixels, CMOS sensor progressive scan, pixel size 3.2 um x 3.2 um, colour filter RGB (Bayer), colour depth 30 bits, exposure time 0.1 msec- 2 sec, A/D converter 10 bit, dynamic range 45dB, full size live image, max.15 frames per sec. VGA, SVGA, XGA and XVGA image formats, gain 1x - 20x, shading correction, supported operating systems. USB2 Cable.	1

Software for variety of imaging tasks such as annotations, calibrations, and image measurements. The Software should provide the means to define acquisition preferences by individually setting exposure time, gain and gamma levels as well as colour depth and size. The results should be crisp, sharp images which can be saved and displayed as thumbnails in an integrated gallery, reviewed at any time. All image related information such as acquisition time, bit depth, calibration should be stored.

C-mount adapter 0.55x HC, for 1/2" and 0.55" cameras 1

**OR**

**Integrated Camera Compound (ICC) High Definition (HD) Camera System 1**

ICC - HD camera module with USB and mini HDMI connection for providing both 3 megapixel resolution captured images on an SD card or with a PC and 1080i Live image resolution directly to an HD display which should include camera, USB cable, HDMI cable, SD card. Imaging software for image capture and simple measuring and annotation applications. The module should fit between the tube and stand and should be supplied with remote control for HD camera and 4GB memory card.

**2 Trinocular Biological Microscope with Camera 1No.**

**Technical Specifications:**

Trinocular Microscope with LED illumination with Right Hand Stage Stand. Standard Illumination, 4 Position Nosepiece, Universal Power Supply, mechanical stage with non-extending rack and slide holder, auto off LED illumination. Built in handle, cord wrap

45 degree Trinocular Tube w locking mechanism. 1

Abbe Condenser 0.9Dry/1.25 Oil 1

Plan 4x/0.10NA, 26.2mm W.D. 1

Plan 10x/0.22 NA, 7.8mm W.D. 1

Plan 40x/0.65 NA, 0.31MM W.D. 1

Plan 100x/1.25 NA, 0.10MM W.D., Oil 1

Eyepiece pair 10x/20 w/eyeguard 2

Immersion oil, 10ml 1

### **Digital Camera for Image Documentation**

Digital camera with sw kit, colour digital camera for on-screen microscope image display, resolution (No. of pixels) 2048x1536, 3.1 Mpixels, CMOS sensor progressive scan, pixel size 3.2 µm x 3.2 µm, colour filter RGB (Bayer), colour depth 30 bits, exposure time 0.1 msec- 2 sec, A/D converter 10 bit, dynamic range 45dB, full size live image, max.15 frames per sec. VGA, SVGA, XGA and XVGA image formats, gain 1x - 20x, shading correction, supported operating systems. USB2 Cable.

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1

## **3. Thin Section Cutting and Polishing Machine**

**01No**

### **a) Diamond Saw for Cutting of Rock/Mineral Samples**

1

The Equipment is required for quick and clean cutting of irregular rock specimen and small pieces of rocks and minerals by using appropriate cutting wheels.

A chop stroke type midget table top model using a diamond impregnated wheel diameter 10" round or square stocks. The basic arrangement should be of see-saw arm spindle.

#### **Specifications :**

1. Powered by 3 H.P. 3 Phase, 440 volts AC T.E. F.C. Electric Motor, 2800 RPM.

2. Heavy Duty spindle fitted in Ball Bearings and driven by 'V' Belts and Pulleys.
3. Protective guard covers for both the Abrasive Wheel and Belts. Plexiglass acrylic glass windows for seeing the cutting operation.
4. Vice should be provided on the job platform for holding the jobs. The platform position should be adjustable to accommodate jobs of odd shapes with double cross slide vice for convenience of section slide cutting.
5. The cavity of equipment frame under the Platform should be acts as a coolant storage and should be covered by a sieve filter.
6. Delivery of coolant through small pump driven off from the tank. The angle of coolant nozzle should be adjustable for optimum position.

### **Diamond Impregnated Wheels**

Dia Inch	Wheel Thickness	Rim Width	Diamond GRIT	Centre Hole
8"	2.0 mm	5 mm	80/100	1"
10"	2.0 mm	5 mm	80/100	1"

### **b) Single Disc Polisher for Metallographic samples (Variable Speed- Table Type)**

1

Variable speed polishing equipment capable of handling most type of metallurgical specimens. The equipment should consist of motor driven 10" bronze disc over which polishing paper or cloth can be stretched. The discs should be easily replaceable. The equipment should be supplied with 8" bronze disc, which push fits on a tapered steel spindle which runs freely between two ball bearings fitted in the housing. The disc should operate in basin of fibre glass which collects the abrasive wastes and removes out of the system. It should be provided with splash guard and cover for protection when not in use. The equipment should also be provided with swan neck tap which can be swung on the disc for controlled addition of water during grinding & polishing or swung on to a wash basin for washing the specimens during intermediate examinations. The polishing unit should be provided with foremica table top and back ledge and the mild steel body should be covered with glossy panels from all sides. All controls required to be brought to the front for ease of operation. The equipment should operate on 220 Volts AC with a 1/2 HP T.E.F.C. single phase motor which should provide continuously variable speed from 300rpm to 900rpm.

### **c) Additional Accessories –**

#### **i) Additional Discs: 8" Dia., 10" Dia., 12" Dia**

- (a) Cast Iron Disc, (b) Mild Steel Disc, (c) Gun metal Bronze Disc

**ii) Clamping Ring -**

- (a) Paper Clamping Ring: 8" Dia., 10" Dia.
- (b) Cloth Clamping Ring: 8" Dia., 10" Dia.

**iii) Silicon Carbide Powders:**

No.	Grit
a)	60/80
b)	120/180/220
c)	320/400
d)	600
e)	800/1000
f)	1200

**iv) Polishing Powders**

- (a) Magnesium Oxide, (b) Chromium Oxide, (c) Rouge, (d) Cerium Oxide

**v) Polishing Alumina in Powder form:**

1. Polishing Alumina in Powder Form in size 0.3 microns / 0.05 microns (imported)
2. Polishing Alumina in Powder form Indian make (non standard, size 2 to 10 microns.), 500 gms.
3. Levigated Alumina suspension

**vi) Diamond Paste of Heavy Concentration:**

- (a) Diamond Paste of Heavy Concentration (Super concentration):  
0.25, 1.00, 3.00, 6.00 (Size in Micron)
- (b) Lubricant for Diamond Paste per bottle 200cc.

**vii) Polishing Cloths:**

- 10"Circle /10"sq. for 8" Disc.; 12" Circle / 12"sq. for 10" Disc.
- a) Selvyt cloth, b) Nylon cloth, b) Polish leather

## **GENERAL TERMS AND CONDITIONS**

1. Dealers have to supply Equipments/ Machine/ Instrument/ any articles as per the Order. No alternate makes of Instruments are accepted. And if any dealer supply any alternate make of Instruments which has not been ordered these Equipments/ Machine / Instrument / any articles will be returned to them at their cost.
2. If the Equipments/Machine/Instrument/ any articles supplied are not found satisfactory, such Instruments will be return to them at their cost.
3. The Order should be complied in totally within fifteen days from date of order or to report how the matter stands.
4. Bills in Triplicate with Pre-stamped receipt/Invoices affixing with Rs.1 revenue stamp should be sent to us within fifteen days.
5. Delivery of Equipments/Machine/Instrument/ any articles are FOR at Head, Department of Geology, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.
6. Please note that our Banker is Bank of India, Rashtrasant Tukadoji Maharaj Nagpur University Extension Counter, University Campus, Nagpur-440 033.
7. Outside dealers are requested to negotiate all documents through the above mentioned Bank.
8. While submitting your quotation kindly mentioned terms and condition clearly regarding i) VAT Tax ii) Sale Tax iii) Octroi iv) Excise Duty and any other tax applicable.
9. **Octroi and Excise duty certificate will be provided if the Proforma Invoice and consignment are made on the name of Head of the Department of Geology Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur. In no case the University will pay the Octroi Tax/Excise Duty.**
10. **The rates mentioned in the quotations should be valid for six months duration.**
11. A performance guarantee of the instrument / equipment is to be given with minimum validity for 12 months or more from the date of installation.
12. Blank tender form will be issued after receiving demand draft of any Nationalized/Schedule bank of Rs. 1000/- in favour of The Head, Department of Geology, R.T.M. Nagpur University, Nagpur - 440 001.
13. Earnest Money Deposit (EMD) in the form of demand draft of any Nationalised/Schedule bank of Rs. 1000/- drawn in favour of The Head, Department of Geology, R.T.M. Nagpur University, Nagpur- 440 001 should be submitted in Envelope No. 1. This money (EMD) shall be refunded to the unsuccessful dealer/bidder, within 30 days from the date of the opening of the tenders. No interest shall be paid on earnest money deposited. In case of successful dealer the EMD shall be refunded after the official order and successful installation at Department of Geology, R.T.M. Nagpur University, Nagpur- 440 001 (MS) India. Any offer received without the EMD shall stand wholly rejected. Nevertheless, Decision of the Head, Department of Geology, R.T.M. Nagpur University, Nagpur. (MS) India, on such matters shall remain final and binding.
14. The details like IT certificate, income tax certificate, VAT registration & clearance, authorization from the manufacturers, previous experience, etc. should be submitted in Envelope No. 1.
15. Price bid should be submitted in Envelope No. 2.
16. Envelope no. 1 and 2 should be submitted in Envelope No. 3.
17. The tender form downloaded from [www.nagpuruniversity.org](http://www.nagpuruniversity.org) should be accompanied by a DD of Rs. 1000/- as the formal tender form fee along with appropriate DD of earnest money deposit (EMD).
18. The supplier shall provide both technical/onsite demonstration /service manual and operation/ installation manual along with the dust cover for the equipment free of cost.

19. In case of any dispute the jurisdiction shall be Nagpur.
20. The tender for equipment/instruments must be sent in sealed envelop with the superscription “**Tender for instruments/equipment for XI Plan**” Department of Geology, R.T.M. Nagpur University, Nagpur- 440 001 and addressed to the Head, Department of Geology, R.T.M. Nagpur University, Nagpur- 440 001 (MS) India.
21. Tenders received late shall not be accepted. All tenders shall be opened in the presence of the bidders or their authenticate representatives in the office of Head, Department of Geology, RTM Nagpur University, Nagpur in accordance with the date and time specified in the tender notice.
22. No correspondence queries or reminders or personal visits regarding quotation position or ordering action will be entertained or replied. Orders when finalized will be intimated to the parties concerned only.
23. Outside dealers are requested to quote the mode of dispatch of articles, i.e. by Railway, Post Parcel, Currier or Goods Transport or Air Mail.
24. ***Two bid system will be followed. First technical bid (envelope no. 1) will be opened. After the fulfillment of all the necessary documents along with EMD enclosed in envelope no. 1), then financial bid (i. e. envelope no. 2) of the required technical specifications will be only opened. It is, therefore, suggested to submit two independent envelops for technical and financial bids.***
25. Kindly mention Sales Tax / Registration number of the firm.
26. Payment: Advance payment will not be made.
27. Any special discount for Educational / Research Institution should be specified.
28. Equipments / Machine / Instrument/ any articles shall be accepted on any working days up to 5-00 p.m.
29. Schedule of the date is as given below (on working days only):
  - i. Sale of blank tender form: **11-01-2012 to 27-01-2012**
  - ii. Submission of tender form: up to **04.00 pm** on **27-01-2012**
  - iii. Opening of tender form: Envelope no. 1 on **28-01-2012 (11.30 am)** and envelope no. 2 on **28-01-2012 (02.00 pm)** at Department of Geology.
30. The Head, Department of Geology, R.T.M. Nagpur University, Nagpur- 440 001 (MS) India reserves the right to reject lowest of any tender and to increase or decrease the quantity of or split of the items of the tender at any time while finalization of the order.
31. The Head, Department of Geology, R.T.M. Nagpur University, Nagpur- 440 001(MS) India reserves the right to reject any or all of the tenders without assigning any reasons thereof.

**NOTE:**

- i. The tender may be accompanied with an undertaking from the party/supplier that the terms and conditions of the tender are acceptable and binding on the party/ supplier.
- ii. Please return this copy of terms and conditions duly signed and stamped alongwith the tender documents.
- iii. The goods must be dispatched on CIF Nagpur basis ONLY

Head  
Department of Geology  
Rashtrasant Tukadoji Maharaj  
Nagpur University, Nagpur

Name of the Supplier / Firm : .....

Whether Sole Proprietor / Partnership/ Pvt. Ltd., Public Limited under Indian Company's Act, 1956, with copy of Partnership Public Ltd., Registration Certificate : .....

Name of Sole Proprietor or Managing Partners or Managing Director and other Directors with Address and Telephone numbers : .....

Details of Registered Office and other Regional Offices : .....

Contact Person for the matters as regard to the present contract (legal authority may be cited) : .....

Signature of the Supplier / Firm : .....

Office Stamp / Seal : .....

Place : .....

Date : .....