

Department of Geology  
University of Delhi  
Delhi – 110 007

General Section

2-03-2017

**TENDER NOTICE**

Sealed tenders are invited in two-bid system (Technical Bid and Financial Bid) for supply and installation of *Student Microscopes for Micropaleontology and Oceanography laboratory* at Department of Geology, University of Delhi, Delhi.

Tender documents with all details can be downloaded / seen from website <http://du.ac.in> or <http://e-procure.gov.in>. The last date of submission of bids is 24.03.2017.



Head of the Department

Department of Geology

University of Delhi

विभागध्यक्ष / Head

अ-विज्ञान विभाग / Department of Geology  
दिल्ली विश्वविद्यालय / University of Delhi  
दिल्ली-110007 / Delhi-110007

## NOTICE INVITING TENDERS

Online electronic bids are invited for and on behalf of Department of Geology, University of Delhi, Delhi – 110 007, for **supply and installation of Student Microscopes for Micropaleontology and Oceanography laboratory**. The essential specifications are mentioned below:

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| Name of the equipment                           | <b>Student Microscopes for Micropaleontology and Oceanography laboratory</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Quantity                                        | 2 (Two)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Detailed specification for required microscopes | <p><b>A. For 1 stereo zoom microscope :</b><br/> Parallel-optics zooming type or equivalent, Zoom ratio: 8:1 or better. Zoom range: 1-8x or better. 10x-160x or better magnification with available objective and 10x eyepiece. Objectives: plan apochromat 1x (w.d. 70mm) &amp; plan apo 2x (w.d. 30mm). Eye piece: 10x (22 mm fov or better &amp; dioptre adjustment on both eyes. Eye piece tube: trinocular eyepiece tube with 100:0; 0:100 light distribution at eye piece/ camera port. Nosepiece: dual objective nosepiece to accommodate two objectives at a time. Optical resolution: microscope should offer 600 lines/mm resolution or better. Diastolic illumination base: led diasopic stand with uniform illumination &amp; hand rest features for comfortable operation, episcopic led illumination: led fiber optics bifurcated light illuminator with flexible arms on both sides (cold light source) focusing mount: with coaxial coarse &amp; fine focusing knob to make fine focus adjustmen. Digital color camera: digital color cmos/ccd camera suitable for fluorescence imaging with approx. 5.5 mp resolution or better, sensor size 1/1.8" or better, live display mode: (14 -20 frames/sec.at full resolutions i.e. 5 million pixel resolution; 25-30 frame/sec. with roi &amp; binning mode or better); exposure time: 100 micro sec. – 30 sec.; with usb 3/ fire wire port for transferring acquired camera onto desktop/laptop through single wire with suitable c-mount camera adapter. Software: image analysis software with following features: image acquisition, live image capture &amp; analysis, multi-point image capturing; time lapse imaging, annotation; manual measurement, counting, ND viewer, large image, macro, report generator facility. All the components like Microscope, camera &amp; software should be from same source of manufacturing for better compatibility. Data collection &amp; processing unit: branded computer/laptop with i5 processor, 4 gb ram, dvd writer, 500 gb or higher hdd, 21" tft monitor, along with multimedia kit &amp; usb 3.0/firewire port to connect the camera &amp; ups.</p> <p><b>B. For 1 compound microscope:</b><br/> Infinity corrected optical system with 60mm parfocal distance with built in image capture button in the main body should be preferable. Magnification 40x-1000x for observation. Analyzer 360 rotary dial, minimum reading angle 0.1deg. Eyepiece tube trinocular polarising eyepiece tube Intermediate tube built-in focusable bertrand lens removable from optical path; conosopic / orthoscopic observations switchable; built-in analyzer; removable from optica path with plate/ compensator slot. Eyepiece lens one pc. 10 x eyepieces with 90 cross hair and micrometer scale. (f.o.v22mm/0.9in.) And one normal 10x eyepiece Stage circular graduate stage rotatable 360 degree horizontally with stage micrometer. Nose piece. Detachable quintuple nosepiece with din slot. Condenser dedicated strain-free swing-out type, n.a. 0.9. Polarizer fixed to the bottom of the condenser holder. Compensator ¼ lambda and tint plate &amp; quartz wedge, senarmont compensator all compensator should be quoted in option. Objective: polarizing achromat objectives for 4x (n.a. 0.10/ w.d. 30.0mm 10x (n.a. 0.25/w.d. 7.0mm or better), 40x (n.a. 0.65/w.d. 0.65mm or better) &amp; 100x oil (n.a. 1.25/w.d. 0.23mm or better) should be work</p> |



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|  | with transmitted as well as episcopic illumination. Illumination transmitted light 6v/30watt halogen with built in transformer. Digital color cmos/ccd camera with approx. 5.5 mp resolution or better, sensor size 1/1.8" or better, live display mode: (14 -20 frames/sec.at full resolutions i.e. 5 million pixel resolution; 25-30 frame/sec. With roi & binning mode or better); exposure time: 100 micro sec. – 30 sec.; with usb 3/ fire wire port for transferring acquired camera onto desktop/laptop through single wire with suitable c-mount camera adapter. Software should be with following features: Acquisition and device control up to three-dimensional acquisition, image acquisition, time lapse imaging, annotation, ND viewer, large image, macro, report generator facility, vector layer & multi-dimensional file format (nd format). Data collection and processing unit: branded computer/laptop with i5 processor, 4 gb ram, dvd writer, 500 gb or higher hdd, 21" tft monitor, along with multimedia kit & usb 3.0/firewire port to connect the camera and ups. microscope, camera & software should be from same manufacturer for better compatibility |
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The details of supply are available in the tender document which can be downloaded from Central Public Procurement (CPP Portal <http://eprocure.gov.in/eprocure/app> ) and the bid is to be submitted online only on <http://eprocure.gov.in/eprocure/app> up to last date and time of submission of tender. Sale of physical tender document is not applicable.

#### 1.0 Brief Details of Tender:

| Sr. No. | Items                     | Description                                                                                                                                                                                                                                                                                                                                      |
|---------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (i)     | Estimated Cost            | 15,00,000/-                                                                                                                                                                                                                                                                                                                                      |
| (ii)    | EMD (Bid Security)        | Rs. 38,000/- in the form of Demand Draft/Banker's cheque in favor of "Registrar, University of Delhi", payable at Delhi or in the form of Bank Guarantee (BG) issued by an Indian nationalized bank or any scheduled bank of India. Bank guarantee shall be valid up to Eighteen months beyond the bid validity period as per prescribed format. |
| (iii)   | Completion Period         | 3 (Three) Months                                                                                                                                                                                                                                                                                                                                 |
| (iv)    | Tender document fee       | Rs. 1000 /- in the form of demand draft or banker's cheque in favor of 'Registrar, University of Delhi', payable at Delhi.                                                                                                                                                                                                                       |
| (v)     | Tender Authority Inviting | Head, Department of Geology, University of Delhi                                                                                                                                                                                                                                                                                                 |

**NOTE:** The tender fee and EMD (in original) should be submitted to the Tender Inviting Authority on or before the last date of bid submission, failing which the tender will be summarily rejected.

## 2.0 Critical Dates of Tender:

|       |                                        |                                  |
|-------|----------------------------------------|----------------------------------|
| (i)   | Published date                         | __03-03-2017__ at __04:00 P.M.__ |
| (ii)  | Bid Document Download/ sale start date | __03-03-2017__ at __04:00 P.M.__ |
| (iii) | Clarification start date               | ____--____ at ____--____         |
| (iv)  | Clarification end date                 | ____--____ at ____--____         |
| (v)   | Bid submission start date              | __03-03-2017__ at __05:00 P.M.__ |
| (vi)  | Bid submission end date                | __24-03-2017__ at __03:00 P.M.__ |
| (vii) | Bid opening date                       | __24-03-2017__ at __04:00 P.M.__ |

## 3.0 Bid Submission

Bids shall be submitted online only at CPPP website ( <https://eprocure.gov.in> ) Bid documents may be scanned with 100 dpi (with black and white option), which helps in reducing the size of scanned documents.

4.0 Tenderer who has downloaded the tender from the Central Public Procurement Portal (CPPP) website ( <https://eprocure.gov.in> ) shall not tamper/modify the tender form including the downloaded price bid template in any manner. In case if the same is found to be tempered/modified in any manner, the tender will be completely rejected and EMD would be forfeited.

5.0 Intending tenderers are advised to visit again CPPP website ( <https://eprocure.gov.in> ) regularly till closing date of submission of tender for any corrigendum/addendum/amendment.

6.0 Bids will be opened as per date/time as mentioned in the Tender Critical Date Sheet. After online opening of Technical-Bid the results of their qualification as well price-bid opening will be intimated latter.

7.0 The tender shall be submitted online in two parts, viz., technical bid and price bid.

All the pages of bid being submitted must be signed and sequentially numbered by the bidder irrespective of nature of content of the documents before uploading.

The offers submitted by Telegram/fax/email shall not be considered. No correspondence will be entertained in this manner.

## 8.0 Technical Bid

The following documents are to be furnished by the bidder along with **Technical Bid** as per the tender document:

- (i) Signed and scanned copy of proof for payment of Tender Document Cost (T. Fee) / Earnest Money Deposit. ☐
- (ii) Signed and scanned copy certificates like Registration Certificate, PAN No., TIN No., Service Tax Registration, Sales Tax, Trade Tax Registration etc. ☐
- (iii) Signed and scanned copy of Tender Acceptance Letter & Letter of Authorization to submit bid. ☐

(iv) An undertaking (self-certificate) that a Central/State/UT Government institution has not blacklisted the agency and there has been no litigation with any government department on account of IT services. ☐

(v) Signed and scanned copy of Technical Data Sheet. ☐

#### **9.0 Price Bid**

(a) Price bid undertaking

(b) Schedule of price bid in the form of **BOQ\_XXXXXX.xls**