

Ref. No. Geology/SERB/001904/22/1 dated 25.02.22

Department of Geology  
University of Delhi  
Delhi – 110 007

**TENDER NOTICE**

Tenders are invited in two-bid system (Technical Bid and Financial Bid) for **supply and installation of "Upright polarizing microscope with colour CMOS camera imaging software and complete workstation unit"** under the project "Constraining the pressure-temperature-fluid composition and timing of deep crustal metasomatism, preserved in the Southern Granulite Terrane, India" funded by Science & Engineering Research Board (SERB) at Department of Geology, University of Delhi, Delhi.

Tender documents with all details can be downloaded / seen from website <http://e-procure.gov.in> . The last date of submission of bids is 18.03.2022 .

*Anindita Dey*

**Dr. Anindita Dey**

**Principal Investigator, SERB project**

Project No: SRG/2021/001904

"Constraining the....Terrane, India"

Department of Geology,

University of Delhi, Delhi-110007

**डॉ. अनिन्दिता दे / Dr. Anindita Dey**  
सहायक प्रध्यापक / Assistant Professor  
भू-विज्ञान विभाग / Department of Geology  
दिल्ली विश्वविद्यालय / University of Delhi  
दिल्ली-110007 / Delhi-110007

## NOTICE INVITING TENDERS

Online electronic bid is invited for and on behalf of Department of Geology, University of Delhi, Delhi – 110 007, for **supply and installation of “Upright polarizing microscope with colour CMOS camera imaging software and complete workstation unit”** The essential specifications are mentioned below:

Name of the equipment:	<b>supply and installation of Upright polarizing microscope with colour CMOS camera imaging software and complete workstation unit</b>
Quantity:	<b>1 no</b>
Serial No.	<b>Required Specifications</b>
1	<b>Upright polarizing Stand:</b> 4 Position centerable nosepiece, Koehler Illumination, Circular rotating stage (Diameter > 175 mm) with graduations and adjustable brake, built in handle and cord wrap, objective centering tools, 2 Object Clamps Dust Cover. USB 2.0 interface for connection to a PC and all the peripheral optics must be highest quality strain free.
2	<b>Observation Tube:</b> 30 degree inclined Polarization Tube with eyepiece locking mechanism, and orientation key in one eye tube for the Crosshair reticule eyepiece. Reticule for 100 division for eyepiece should be mentioned.
3	<b>Pol Eyepiece:</b> Eyepiece with eye guard - 10x/23mm or more focusable eyepiece with Crosshair reticule and key for orientation.
4	<b>Objectives:</b> Pol 2.5x/0.7 WD-10mm or more, Pol5x /0.12 WD13mm or more, Pol10x /0.25 WD-16mm or more, Pol20x/0.40 WD-1.15mm & Pol50x/0.75 WD-0.50mm. More working distance will be preferred for use with and without cover glass for all magnifications. Should be suitable for TL applications and upgradable for reflected light application.
5	<b>Transmitted Light:</b> LED Illumination with all attachments for Transmitted Light with atleast 25,000 hours' usage warranty with cool white LED of 5600k temperature. Time delay shutoff saves energy by automatically turning off the illumination after 2 hours of no use Continuous intensity adjustment must have illumination enough for viewing at lowest intensity.
6	<b>Condenser</b> Polarizing Abbe 0.85 with lambda ¼ compensator
7	<b>Stage:</b> 360 °Rotatable polarizing stage with object guide - Object guide, xy-control should suitable for different slide formats. Laser engraved stage calibration in 1° increments. Vernier's on two sides to 0.1 °.
8	<b>Polarizer/Analyser:</b> Analyser 180° rotatable with revolving at 5 ° interval. Adjustable polarizer and analyser.

9	<b>Focus:</b> Low position focus controls with 300 microns per fine focus rotation calibrated in 3 micron increments.
10	<b>Camera:</b> 12 Megapixel or better High-speed digital CMOS camera. Possibility to connect camera on HDMI, Ethernet. Standalone operation should be possible without PC and image should store in either SD card or USB drive. PC control function for image processing & analysis with the help of imaging software. Camera sensor format: H-4,000 X V- 3,000 (12 MP) or better. Optical filter - 650 nm or better IR cut-off filter C-Mount-0.55X
11	<b>Imaging Software:</b> -Image parameter recall -HDR Acquisition -Basic image processing tools( crop, resize, sharpening, colour adjustment, background filter, median, blur) -Visual comparison view -Documentation reports (template included, customizable) MS Office required -Basic annotation -Customizable user interface layout -Measurement for all parameters like length,distance,area,perimeter, diameter & angle analysis report( template included)MS office required -2D Navigation overview
12	<b>Workstation Unit:</b> -Branded (HP/DELL/Lenovo) suitable PC i5, 8GB RAM,1 TB HDD original Win 10 for imaging software should be quoted with 22 inch LED HDMI screen, mouse,keyboard,USB 2/3 hub -Colour laser printer(HP)
13	<b>Certification:</b> cULus, CE, RoHS Main optical components should meet ISO 9022-11 for Mould Growth
14	<b>Microscope, camera, imaging software must be from single manufacturer for best synchronization</b>
15	-At least 10 user list of IIT's,IISER'S,GSI's must be included. -Local service support must be available. -compliance statement must submit with proper part code, description and system diagram. -Those venders who has proper installation and maintenance at IIT's, IISER's GSI's will be preferred for choice. - Technical information and features of the microscope should be available on catalogue and the same information should be available on manufactures website.

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 in not applicable.

### 1.0 Brief Details of Tender:

Sr. No.	Items	Description
(i)	Estimated Cost	---
(ii)	Completion Period	90 days
(iii)	Tender Inviting Authority	Principal Investigator, SERB project, Department of Geology, University of Delhi

### 2.0 Critical Dates of Tender:

(i)	Published date	__25-02-2022__ at __16:00 Hrs.__
(ii)	Bid Document Download/ sale start date	__25-02-2022__ at __16:00 Hrs.__
(iii)	Clarification start date	____--____ at ____--____
(iv)	Clarification end date	____--____ at ____--____
(v)	Bid submission start date	__25-02-2022__ at __16:00 Hrs.__
(vi)	Bid submission end date	__18-03-2022__ at __16:00 Hrs.__
(vii)	Bid opening date	__19-03-2022__ at __15:00 Hrs.__

### 3.0 Tender Fee and Earnest Money Deposit (EMD)

- (i) Tender fee: Rs. 500/
- (ii) Earnest Money Deposit (EMD): Rs 25,000/-

### 4.0 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.

5.0 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.

6.0 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.

7.0 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 Financial-bid

opening will be intimated latter.

**8.0** The tender shall be submitted online in two separate covers of technical bid in PDF Format (as per **ANNEXURE B**) & financial bid in **BOQ\_microscope.xls**. Compliance sheet (**ANNEXURE D** in tender document) is to be submitted by Bidder along with the bid document.

- (i) The offers submitted by Telegram/fax/email shall not be considered. No correspondence will be entertained in this manner.
- (ii) Signed and scanned copy certificates like Registration Certificate, PAN No., TIN No., Service Tax Registration, Sales Tax, Trade Tax Registration etc. should be submitted as required.
- (iii) An undertaking (self-certificate) should be submitted stating 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 its services.

#### **9.0 Performance Security**

- a) The Successful Bidder shall, for due and faithful performance of its obligations under the Tender Document provide to DU:
  - A Performance Bank Guarantee equivalent to @ 5% of the total value of the order, valid for a period of sixty days beyond the warranty period and which shall be discharged thereafter. The Performance Bank Guarantee shall be from any Scheduled Bank in favour of "Registrar, University of Delhi" payable at New Delhi.
- b) The Performance Bank Guarantee shall be provided within 10 days by the Successful Bidder and before issue of the purchase/supply order by DU.

#### **10.0 Schedule of price bid in BOQ\_microscope.xls**

1. The Financial Proposal/Commercial bid format is provided as Excel file along with this tender document at <https://eprocure.gov.in> . Bidders are advised to download this file as it is and quote their offer/rates in the permitted column and upload the same in the commercial bid.
2. The rates shall be quoted in Indian Rupee only.
3. In case of any discrepancy/difference in the amounts indicated in figures and words the amount in words will prevail and will be considered.

**Authorized Signatory**  
**(Signature of the Authorized Person)**

Ref. No. Geology /SERB 1001904/22/1 dated 25.02.22

**Tender Document**

**Department of Geology**

**University of Delhi**

**Delhi – 110 007**



**Tender Document**

**For**

**Supply and installation of “Upright polarizing microscope with colour CMOS camera imaging software and complete workstation unit”**

Tender fee: Rs. 500/

Earnest Money Deposit (EMD) : Rs 25,000/-

**PRICE BID UNDERTAKING**

**From: (Full name and address of the bidder)**

---

---

---

---

To,

Principal Investigator, SERB project  
Department of Geology  
University of Delhi  
Delhi-110007

Dear Sir / Madam

1. I submit the Price Bid for

\_\_\_\_\_ and  
related activities as envisaged in the Bid document.

2. I have thoroughly examined and understood all the terms and conditions as  
contained in the Bid document, and agree to abide by them.

**Yours Faithfully,**

**Signature of authorized Representative:**

### (Terms and Conditions)

1. Inadequate or incomplete tenders in any respect or the prescribed conditions not fulfilled are liable to be rejected. Canvassing in any form by the tenderers/vendors will result in rejection of their tenders.
2. Make, model, type & detailed specification of required hardware/software should clearly be mentioned in the quotation. Option of different make and models of each required items may also be quoted with respective rates for best selection. Other details such as warranty, delivery period, and installation charges, if any & tax provision etc. shall also be intimated.
3. The tender's firm must be registered with Sales/Service Tax Department for supply/services. Copies of such certification mentioning registration number etc. shall be furnished along with tender/quotation.
4. The tenderer/firm must submit the copies of TIN/PAN Number etc.
5. All technical queries/complaints, shall be attended immediately during entire warranty/support period.
6. Necessary initial training/support services for using hardware/software if required, shall be arranged for the users' concerned or as and when required on demand basis during entire warrant/support period.
7. Payment will be made only after supply and installation of equipments.
8. Detailed profile of company (including annual turnover of previous 3 years) along with list of users should be submitted.
9. If any defect(s) is (are) noticed or any complaint made by the users during the warranty/support period, the levy of compensation for any dislocation of work due to delayed rectification or any other reason, will be decided by the Registrar to enforce penalty claim from the contractor.
10. It is also condition of this contract that the court, which has territorial jurisdiction over Delhi, shall have the absolute jurisdiction for adjudicating any difference or disputes arising out of this contract to the exclusion of all other court.



11. In the event of any dispute arising under this contract, the same shall be referred to sole arbitration of Registrar, University of Delhi. The agreement to appoint arbitrator will be in accordance with Arbitration & Conciliation Act, 1996. The award of arbitrator shall be final and binding on both the parties. The venue of the arbitration proceeding shall be the office of Registrar, University of Delhi, Delhi or such other place as the arbitrator may decide.
12. The University is entitled for GST @ 5% as per annexure A (first page of the notification).
13. The tenderer/firm must fill up the compliance sheet in details. Based on that demonstration of the product and clarification will be invited before finalizing the order. Any deviation between the claimed and the actual specifications will lead to blacklisting of the tenderer/firm.

*Anindita Dey*

**Dr. Anindita Dey**

**Principal Investigator, SERB project**

Project No: SRG/2021/001904

"Constraining the....Terrane, India"

Department of Geology,

University of Delhi, Delhi-110007

**डॉ. अनिन्दिता दे / Dr. Anindita Dey**

सहायक प्रध्यापक / Assistant Professor

भू-विज्ञान विभाग / Department of Geology

दिल्ली विश्वविद्यालय / University of Delhi

दिल्ली-110007 / Delhi-110007

**ANNEXURE-A**

[TO BE PUBLISHED IN THE GAZETTE OF INDIA,  
EXTRAORDINARY, PART II, SECTION 3, SUB-SECTION (i)]

GOVERNMENT OF INDIA

MINISTRY OF FINANCE

(DEPARTMENT OF REVENUE)

Notification No. 47/2017-Integrated Tax (Rate)

New Delhi, the 14<sup>th</sup> November, 2017

G.S.R....(E).- In exercise of the powers conferred by sub-section (1) of section 6 of the Integrated Goods and Services Tax Act, 2017 (13 of 2017) ( hereafter in this notification referred to as “the said Act”), the Central Government, on being satisfied that it is necessary in the public interest so to do, on the recommendations of the Council, hereby exempts the goods specified in column (3) of the Table below, from the so much of the integrated tax leviable thereon under section 5 of the said Act, as in excess of the amount calculated at the rate of 5 per cent., when supplied to the institutions specified in the corresponding entry in column (2) of the Table, subject to the conditions specified in the corresponding entry in column (4) of the said Table-

Table

S. No.	Name of the Institutions	Description of the goods	Conditions
(1)	(2)	(3)	(4)
1.	Public funded research institution other than a hospital or a University or an Indian Institute of Technology or Indian Institute of Science, Bangalore or a National Institute Technology/ Regional Engineering College	(a) Scientific and technical instruments, apparatus, equipment (including computers); (b) accessories, parts, consumables and live animals (experimental purpose); (c) computer software, Compact Disc-Read Only Memory (CD-ROM), recorded magnetic tapes, microfilms, microfiches; (d) Prototypes, the aggregate value of prototypes received by an institution does not exceed fifty thousand rupees in financial year.	(i) The goods are supplied to or for – (a) a public funded research institution under the administrative control of the Department of Space or Department of Atomic Energy or the Defence Research Development Organisation of the Government of India and such institution produces a certificate to that effect from an officer not below the rank of the Deputy Secretary to the Government of India or the Deputy Secretary to the State Government or the Deputy Secretary in the Union Territory in the concerned department to the supplier at the time of supply of the specified goods; or  (b) an institution registered with the Government of India in the

**TECHNICAL BID**

1. Name of the Company
2. Address (with Tele No. fax No. & e-mail)
3. Contact person Name and mobile number
4. (a) The number of years of experience in dealing Upright polarizing microscope with colour CMOS camera imaging software and complete workstation unit:  
(b) Total value per year of Business during the last three years  
(Attested certificate from Chartered Accountant should be attached.)
5. (a) Registration Number \_\_\_\_\_  
VAT/GST number \_\_\_\_\_  
(b) PAN Number \_\_\_\_\_  
(c) Service Tax Number \_\_\_\_\_
6. Technical details of Upright polarizing microscope with colour CMOS camera imaging software and complete workstation unit: as per details given under Specifications of equipment to be supplied.

Bidder is required to fill-up this checklist:

Sl. No.	Item Description	Yes/No	Bid Reference
1.	Technical Bid		
2.	Financial Bid		
3.	Tender Fee proof		
4.	Earnest Money Deposit (EMD)		
5.	Tender Acceptance Letter (ANNEXURE-C)		
6.	Compliance sheet (Annexure D)		
7.	Letter of Authorization to submit bid		
8.	An undertaking that the agency has not been blacklisted		
9.	Detailed profile of company (including annual turnover of previous 3 years) along with list of users		

**Declaration**

I hereby certify that the information furnished above are full and correct to the best of our knowledge. We understand that in case any deviation is found in the above statement at any stage, the company will be black-listed and will not have any deal with the Organizations in future.

**Authorized Signature  
with Seal of Company**

**TENDER ACCEPTANCE LETTER**  
(To be given on Company Letter Head)

To,

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Sub: Acceptance of Terms & Condition of Tender.

Tender Reference No: \_\_\_\_\_

Name of Tender / Work:-

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Dear Sir,

1. I/We have downloaded/obtained the tender document(s) for the above mentioned 'Tender/Work' from the web site(s) namely:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

As per your advertisement, given in the above mentioned website(s).

2. I/We hereby certify that I/we have read the entire terms and conditions of the tender documents from Page No. \_\_\_\_ to \_\_\_\_ (including all documents like annexure(s), schedule(s), etc.), which form part of the contract agreement and I/we shall abide hereby by the terms / conditions/ clauses contained therein.
3. The corrigendum(s) issued from time to time by your department / organization too have also been taken into consideration, while submitting this acceptance letter.
4. I/we hereby unconditionally accept the tender conditions of above mentioned tender document(s)/corrigendum(s) in its totality/entirely.
5. I/we do hereby declare that our firm has not been blacklisted/debarred by any Govt. Department/Public Sector undertaking.
6. I/we certify that all information furnished by the our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department/organization shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely.

Yours faithfully,

(Signature of the Bidder, with Official Seal)

ANNEXURE D  
Technical specifications compliance Sheet

1. The technical compliance bid must be in this sheet only, otherwise is should be assumed that bidder is not able to offer technically desired product. Information provided elsewhere or in different form will not be considered.
2. All the columns of this sheet should be filled in compulsorily by the bidder, merely asking the office to refer catalogue or brochure will not be entertained.
3. The bidder shall assume full responsibility of the information provided in this sheet. Any false statement should render the breach of basic foundation of the tender.
4. Technical information and features of the microscope should be available on catalogue and the same information should be available on manufactures website.

Name of Equipment / Instrument:

Compliance Check list/ Table						
S. No.	Technical Specifications	Any deviation from specification	Part Code and System diagram	Corresponding Page no. and S. No./Para no. of datasheet catalogue/brochure in support of specification	Features available in equipment write (Yes/No)	Offered specification
1	<p>Technical Specification as per Tender document</p> <p><b>Upright polarizing Stand</b></p> <p><b>Specification</b> 4 Position centerable nosepiece, Kohler illumination, Circular rotating stage (Diameter &gt; 175 mm) with graduations and adjustable brake, built in handle and cord wrap, objective centering tools, 2 Object Clamps Dust Cover, USB 2.0 interface for connection to a PC and all the peripheral optics must be highest quality strain free.</p>					
2	<p><b>Observation Tube</b></p> <p>30 degree inclined Polarization Tube with eyepiece locking mechanism, and orientation key in one eye tube for the Crosshair reticule eyepiece. Reticule for 100 division for eyepiece should be mentioned.</p>					
3	<p><b>Pol Eyepiece</b></p> <p>Eyepiece with eye guard - 10x/23mm or more focusable eyepiece with Crosshair reticule and key for orientation.</p>					
4	<p><b>Objectives</b></p> <p>Pol 2.5x/0.7 WD-10mm or more, Pol5x /0.12 WD13mm or more, Pol10x /0.25 WD-16mm or more, Pol20x/0.40 WD-1.15mm &amp; Pol50x/0.75 WD-0.50mm. More working distance will be preferred for use with and without cover glass for all magnifications. Should be suitable for TL applications and upgradable for reflected light application.</p>					
5	<p><b>Transmitted Light</b></p> <p>LED illumination with all attachments for Transmitted Light with atleast 25,000 hours' usage warranty with cool white LED of 5600K temperature. Time delay shutoff saves energy by automatically turning off the illumination after 2 hours of no use Continuous intensity adjustment must have illumination enough for viewing at lowest intensity.</p>					
6	<p><b>Condenser</b></p> <p>Polarizing Abbe 0.85 with lambda/4 compensator</p>					
7	<p><b>Stage</b></p> <p>360 °Rotatable polarizing stage with object guide - Object guide, xy-control should suitable for different slide formats. Laser engraved stage calibration in 1° increments. Vernier's on two sides to 0.1°.</p>					

8	Polarizer/Analyser	Analysers 180° rotatable with revolving at 5° interval. Adjustable polarizer and analyser.					
9	Focus	Low position focus controls with 300 microns per fine focus rotation calibrated in 3 micron increments.					
10	Camera	12 Megapixel or better High-speed digital CMOS camera. Possibility to connect camera on HDMI, Ethernet. Standalone operation should be possible without PC and image should store in either SD card or USB drive. PC control function for image processing & analysis with the help of imaging software. Camera sensor format: H-4,000 X V- 3,000 (12 MP) or better. Optical filter - 650 nm or better IR cut-off filter C-Mount-0.55X					
11	Imaging Software	Image parameter recall HDR Acquisition Basic image processing tools( crop, resize, sharpening, colour adjustment, background filter, median, blur) Visual comparison view Documentation reports (template included, customizable) MS Office required Basic annotation Customizable user interface layout Measurement for all parameters like length,distance,area,perimeter, diameter & angle analysis report( template included)MS office required 2D Navigation overview					
12	Workstation Unit	Branded (HP/DELL/Lenovo) suitable PC (5, 8GB RAM, 1 TB HDD original Win 10 for imaging software should be quoted with 22 inch LED HDMI screen, mouse,keyboard,USB 2/3 hub Colour laser printer(HP)					
13	Certification	cULus, CE, RoHS Main optical components should meet ISO 9022-11 for Mould Growth					
24	Warranty	On-site Comprehensive Warranty (from the date of full installation) of equipment for 1 years 2 year AMC					