

**DEPARTMENT OF GEOLOGICAL SCIENCES
GAUHATI UNIVERSITY
GUWAHATI
Tender Notice**

Sealed tenders are invited from intending manufacturers/authorized dealers for supply of

- (1) Eleven (12) nos. of student grade polarizing microscope, one (1) no. of Stereo zoom microscopes and one (1) no. of research grade petrological microscope
- (2) One (1) no. of DGPS (RTK GNSS)
- (3) Two (2) 5 KVA UPS including external batteries

(Separate tenders for each of these three items)

All other details about the tender are available at the University website www.gauhati.ac.in and the office of the Department. The Last date of receipt of tender is 02/01 / 2018.

Head
Dept.of Geological Sciences
Gauhati University

**TENDER FOR SUPPLY OF PETROLOGICAL MICROSCOPE (BOTH STUDENT AND RESEARCH GRADE)/
RTK GNSS/5KVA UPS WITH EXTERNAL BATTERY**

To
The Head,
Department of Geological Sciences
Gauhati University

Dear Sir,

1. In response to the tender notice published Departmental notice board and the Gauhati University website, bearing no. _____ dated _____ I/We submit herewith the tender form for the supply of student and research grade microscopes/supply of RTK GNSS/5KVA UPS. (Strike out whichever is not necessary)
2. I/We have thoroughly examined and understood the terms and conditions of the tender mentioned in Appendix-I and I/We agreed to abide by them in full.
4. I/We accept that the rates offered shall remain valid for a period of three (3) months from the date of execution of agreement. I/We further agreed that if the date up to which the offer would remain open be declared as holiday for office, then offer will remain open for acceptance till next working day.
5. I/We shall be bound by communication of acceptance of the offer, dispatched within prescribed time.
6. I/We accept that the right to accept or reject whole or part of the tender without assigning any reason is reserved with the University. The decision of the University will be final and shall be binding on me/us.
7. I/We agreed to undertake to supply themicroscopes/DGPS(RTK GNSS)/5kVA UPS with external battery at the Departmentpremise and as per the specification of the final orders within eight weeks from the date of supply order or the date specified in the supply order.
10. As per the terms and conditions of Appendix-I, I/We are submitting my/our offer in two sealed envelopes enclosed in envelop No.3. Envelop No.1 contains technical bid as per the Appendix Iland Envelop No.2, includes rates /discount quoted by me/us.
11. I/We also agreed that University has full rights to open/consider the second envelop if and only if University satisfied with information contents in envelop No.1. The decision of the University regarding this will be final and will be binding on me/us.

12. I/We hereby declare that the entries made in this tender form are binding on me/us. I/We shall be bound by the Act to my/our authorized representative duly constituted Attorney Mr. _____ whose signature is appended hereto in the place specified for the purpose and of any other person who in future may be appointed by me/us in his place to carry on the business of this concern/agency/firm. The intimation of such change will be communicated to the Head, Department of Geological Sciences, Gauhati University.

The following documents duly filled in and signed are enclosed along with the tender. The part 1 of Appendix-I being the terms and conditions is retained by me/us for my/our information and record.

Place :

Yours faithfully,

Date :

Signature of the Supplier (Tenderer)

Capacity in which signing: _____

Name and Address of the firm/supplier/tenderer: _____

Registration No. of Supplier/tenderer: _____

List of Documents (Checklist)

- i) Tender Form
- ii) Original Price list/catalogs of the appliances offered
- iii) Certificate of Sole Manufacturers/authorized supplier
- iv) Copies of GSTIN and any other relevant registration certificates

Signature of constituted Attorney/authorized representative Signature _____

Date:

Name&Address: _____

APPENDIX-I

TERMS AND CONDITIONS GOVERNING“SUPPLY OFPETROLOGICAL MICROSCOPES (BOTH STUDENT AND RESEARCH GRADE)/ RTK GNSS/5KVA UPS WITH EXTERNAL BATTERY”

PART-I

1. Sealed tenders are invited from manufacturers/authorized dealers of manufacturers/ authorized suppliers who are willing to undertake supply of petrological microscope (student and research grade/DGPS(RTK GNSS)/5KVA UPS with external battery as per the specifications mentioned in Appendix-II during 10.00 to 16.30 hrs on working days and up to 17.00 hrs on last date i.e. **02/01/2018**. **Tenders received late in person/by post will not be considered**. The tenders will be opened on **03/01/2018** at **12.00** hrs in presence of the intending suppliers/ representatives who may desire to attend. Separate tenders for each of the items mentioned above are required. No part bid of the individual items will be accepted.

2.The rates i.e. discount on printed price list both in words and figures without any corrections or over writing should be quoted in Appendix-II for each individual item separately. Any over writing or rewriting should be duly countersigned. **The rates must be valid for 3 months from the date of opening the tender.**

3.The intending supplier shall also have to mention, the detailed specifications, name of manufacturer/make of the supplied items and has to enclose the only original catalogues for which the rates are quoted. The photocopies/Xerox/Fax of these documents will not be considered. In absence of the above original documents, the item(s) offered will not be considered.

4.The tenderer must enclose adequate documents to prove their authorization claims, **the authority letter should include the details of principle supplier/manufacturer regarding their full address, contact person, e-mail address, fax no. and website** and if not enclosed this, University reserves the rights to accept or reject tenders of these agencies. The decision of the University regarding this will be final and shall be binding on tenderer.

6.The tenderer should submit his offer in two separate envelopes i.e in first envelop with superscription **“TENDER FOR “SUPPLY OF PETROLOGICAL MICROSCOPES/DGPS (RTK GNSS)/5KVA UPSWITH EXTERNAL BATTERY/ (TECHNICAL INFORMATION) ENVELOPE NO. 1.**

a) Tender Form

d) GSTIN Registration certificate/ TIN No. and other relevant certificates

e) Original Price list/catalogs.

f) Certificate of Sole Manufacturers/authorized dealers of manufacturers/authorized supplier/dealers of overseas.

g) Clients/ Users list of item(s) of the Company/Dealer and total experience in this field.

(Important: Above (a) to (e) documents if not enclosed the Envelope No. 2 will not be opened)

The tenderer should provide the rates quoted only in Appendix-II in second envelop with superscription "TENDER FOR SUPPLY OF PETROLOGICAL MICROSCOPES/DGPS(RTK GNSS)/5KVA UPSWITH EXTERNAL BATTERY" (RATES) ENVELOP NO. 2.

8. Enclose sealed envelope No. 1 and 2 in envelope No.3 with superscription "TENDER FOR SUPPLY OF PETROLOGICAL MICROSCOPES/DGPS (RTK GNSS)/5KVA UPSWITH EXTERNAL BATTERY"and be submitted to the undersigned.

9. The intending supplier should quote the rates inclusive of all taxes as mentioned in Appendix-II. All the hardwares will have to be supplied within EIGHT WEEKS or as per the last date mentioned in the final supply order. In case the tenderer requires more time than as stipulated above for effecting actual supply of a particular item shall specifically mention in the tender form.

10. Undersigned will reserve full rights to open/consider the second envelop if and only if University is satisfied with information contents in envelop No.1. The decision of the University regarding this will be final and shall be binding on tenderer.

11. The supplier will have to supply, the articles as per the order to the Department of Geological Sciences, Gauhati University, Guwahati-781014 till date of validity of rates.

12. The purchase committee also reserves the right to obtain the equipments by negotiations from one or more of the supplier, in case the rates, quality, make, specifications or other terms and conditions etc. of supplier are not found suitable, to this University. Similarly it reserves the right to call for breakup of cost shown in tender.

13. The specimen of "Agreement Bond" will be provided along with letter of acceptance to the tenderer whose rates are accepted by the University. The tenderer shall have to execute agreement in the prescribed form on stamp paper costing to Rs.100/- or fixing court fee stamp on agreement paper, which should be submitted to this office ordering supply within specified time. The agreement received under seal and signature of tenderer will become legal agreement between the tenderer and the University, which will be binding on tenderer within university jurisdiction. All matters/dispute will be subject to jurisdiction at Guwahati only.

14. If the tenderer fails to comply with the supply order within the specified period his order will be cancelled.

15. On acceptance of the rates as per the approved tender, the supply order will be placed by the Head of the Department of Geological Sciences, Gauhati University.

16. As soon as the tenderer delivers the tender in the office of the undersigned, it shall be binding on him and he shall not be able to withdraw or amend the offer.

17. The Head of the Department also reserves the right to accept or reject the supplies in full which do not strictly stick up to the specifications.

18. The tenderers are bound to supply only genuine items of the make/model/specification etc tendered by him/it and ordered for supply by the university.

19. The credit bill should be presented in triplicate in the name of the Head of the Department of Geological Sciences, Gauhati University. For any delay in payment (interest or any other kind of compensation) the University will not make any extra payments. Delay in supply within the prescribed time limit or the extended time limit, making of supplies not up to the standard specification and performance or non-observance or non-acceptance of these terms and conditions by the tenderers shall constitute breach of contract and this will invite reduction bills of supplies and/or other legal actions and finally the decision ofthe University shall be binding on the tenderer.

Encl: 1) Part-II of Appendix-I
2) Appendix-II (Discount)

Place: Guwahati
Date:

Head,
Department of Geological Sciences
Gauhati University

We have accepted above terms & condition and agreed to abide by them.

Signature with seal of tenderer:-

Capacity in which signing:-

Name and address of the firm/supplier/tenderer:-

Registration No. of firm/tenderer

Part-II

UNDERTAKING TO BE GIVEN BY THE TENDERER FOR "SUPPLY OF PETROLOGICAL MICROSCOPES (BOTH STUDENT AND RESEARCH GRADE)/DGPS (RTK GNSS)/5KVA UPS WITH EXTERNAL BATTERY"

Whereas, the Head, Department of Geological Sciences, Gauhati University has called the tenders for "**SUPPLY OF PETROLOGICAL MICROSCOPES (BOTH STUDENT AND RESEARCH GRADE)/DGPS (RTK GNSS)/5KVA UPS WITH EXTERNAL BATTERY**" as per the enclosed Appendix No-II. (Strike out whichever item is not intended for bidding)

I/We hereby offer our tender at the rates given in the enclosed Appendix -II duly filled in and signed by me/us and hereby also affix my/our signature(s) below this tender voluntary and full acceptance of all the terms and conditions of this tender, which shall be the agreement between the above tender calling authority and myself/us.

Enclosed: Appendix-II

Signature of the Supplier: _____

Name of the Supplier: _____

Capacity in which signing: _____

Full address of the Supplier with Seal/Stamps

Place:

Date:

APPENDIX II

SPECIFICATION OF ITEMS FOR “SUPPLY OF PETROLOGICAL MICROSCOPES/RTK GNSS/5KVA ONLINE UPS/BATTERY REPLACEMENT OF 2 NOS. OF 5KW UPS”

A. POLARIZING MICROSCOPES (TOTAL 13 NOS.)

1	<p>Student grade microscopes (Total 12 Nos.)</p> <p>1. Binocular polarizing microscope with both reflected light and transmitted with LED illumination (10Units)</p> <p>Specifications required</p> <ul style="list-style-type: none">(i) Objectives: (a) 5X, 10X and 20X objectives for all microscopes (b) 1.25X or 1.6X or 2.5X (optional in all microscopes) (d) Objectives must be strain free(ii) Eyepiece: 10X focusing eyepiece with crosshair reticule; eyeguard preferred(iii) Orthoscopic and Conoscopic optics with Bertrand lens (preferred)(iv) Compensator: lambda plate or lambda/4 plate and quartz wedge(v) Stage: Rotary 360° with diameter range of 170 mm to 180 mm(vi) Nosepiece Turret: Minimum Four (4) positions and centerable(vii) Field of View: Minimum 20mm <p>Spares: 5 numbers of 40X or 50X oil immersion objectives</p> <p>2. Trinocular polarizing microscope with both reflected light and transmitted with LED illumination (1Unit)</p> <p>Specifications required</p> <ul style="list-style-type: none">(i) Objectives: (a) 5X, 10X and 20X objectives for all microscopes (b) 1.25X or 1.6X or 2.5X (optional) (d) Objectives must be strain free(ii) Eyepiece: 10X focusing eyepiece with crosshair reticule; eyeguard preferred(iii) Orthoscopic and Conoscopic optics with Bertrand lens(iv) Compensator: lambda plate or lambda/4 plate and quartz wedge(v) Stage: Rotary 360° with diameter range of 170 mm to 180 mm(vi) Nosepiece Turret: Minimum Four (4) positions and centerable(vii) Field of View: Minimum 20mm(viii) Imaging facility: Digital camera of at-least 3 megapixels, Imaging software(ix) PC with 500GB HDD, 4GB RAM, 32” LED Display (wall mount) <p>3. Stereomicroscope (1 Unit)</p> <ul style="list-style-type: none">(i) Large universal base with manual focusing knob(ii) Both reflected and transmitted light illumination (LED)(iii) Trinocular tubes(iv) Zoom range 1:9(v) Switchable zoom clickstops at five different positions or more (~0.60X, ~1X, ~2X, ~3X, ~4X and ~5X); built in transillumination unit with rotatable and slidable mirror for bright field, dark field and oblique transillumination, double spot illuminator, ring illuminator(vi) Imaging facility: CMOS Digital Camera (the camera should not be third party
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	manufactured), driver software, USB 3.0 interface, at-least 5.0 megapixel CMOS sensor, software for image grabbing, acquisition, transfer, auto-Calibration, auto scaling, measurements and reporting
2	<p>Research Grade polarizing transmitted and reflected light microscope with image analysis system (1 No)</p> <p>(i) Objectives: (a) 1.25X or 1.6X, and 2.5X, 5X, 10X and 20X objectives (c) 40X or 50X oil immersion objectives for coal petrographic observation (d) Objectives must be strain free</p> <p>(ii) Eyepiece: 10X focusing eyepiece with crosshair reticule; eyeguard preferred</p> <p>(iii) Orthoscopic and Conoscopic optics</p> <p>(iv) Bertrand lens with extendable field of view</p> <p>(v) Compensator: lambda plate or lambda/4 plate and quartz wedge</p> <p>(vi) Stage: Rotary 360° with diameter range of 170 mm to 180 mm</p> <p>(vii) Nosepiece Turret: five positions and centerable</p> <p>(viii) Built-in analyser</p> <p>(ix) Color coded objectives and condenser diaphragms</p> <p>(x) Field of View: Minimum 25mm</p> <p>(xi) Digital CCD camera at-least 5.0 Megapixel, Image analysis software with linear measurements, scale bar display, draw area etc., multiphase-for multiple phase analysis for determining volume percentage and area percentage calculation (the camera and software should not be third party manufactured)</p> <p>(xii) Digital Automatic Stepping stage for point counting</p> <p>(xiii) PC for image analysis to be included (500 GB HDD, 8GB RAM, 2GB Graphics card and 24 inch monitor)</p> <p>(xiv) Provision for future upgradation with reflectance photometer and fluorescence photometer attachment</p>

B. DGPS (RTK GNSS)

Receivers type	Two (One base and one rover units), geodetic, real time kinematic receivers
Number of channels	Minimum of 120 channels
Signal tracking	Multi-frequency GPS (L1, L2, etc.); GLONASS, Beidou and capable for upgradation to GALILEO; SBAS
Antenna	Integrated or separate antennae with receivers for base and rover. These antennae must be capable of receiving all the specified signals of above mentioned navigation systems
Display and operating unit for base and rover	Two display and operating units must be provided for each base and rover. The display must be touch sensitive. Must be capable of displaying coordinates in field with user-friendly display unit.
Accuracy	RTK Horizontal 8 MM + 1 PPM and vertical 15mm + 1 ppm or better
	Static /Rapid static (post processing): Horizontal 3 mm + 0.5 ppm and vertical 5mm + 0.5 ppm or better
	Post processing phase data with long observations: Horizontal 3mm + 0.1ppm and vertical 3.5mm + 0.4ppm or better

Position update and Position latency	20 Hz or better; 0.03 seconds or less
Data recording	Data recording rate: 20 Hz or better Standard medium: Directly to GNSS receiver and to Electronic Total station in the Internal/slot in receiver for 1 GB minimum
Communication	Base and rover: Integrated GSM/GPRS slots and UHF radio and external high power radio for base. Real Time Message: RTCM V2.1 to 3.1 and other proprietary GPRS Real Time: Real Time using GPRS for multiple rovers from single base should be possible.
Memory	Should have inbuilt internal memory for data storage. In addition, support for removable memory card of 1GB or more
Camera	2 Mega Pixel Camera with Flash
Integrated modules	Gyro, Compass, Distance Meter
Software	Suitable genuine licensed version software for operation of controllers, downloading and post processing of data in computer need to be provided along with the equipment. Software should be compatible with window 10 or latest version.
Dust & water proof along with vibrations & shock resistance	As per standard IP-67 or better.
Power supply	Internal and Rechargeable batteries with power consumption less than or equal to 3W Operation Time: Batteries should power receiver controller and antenna for more than 6 hours and batteries required to maintain this operation time if need so be additional numbers should be offered.
Standard Accessories Water	Water proof carry case for base, rover and associated accessories (e.g. tripods, bipods, antennae, etc), Operating manuals, Two tripods (for each rover and base for long time survey), Two poles with bipods for RTK survey, extra exchangeable one Li-Ion batteries for each base and rover, charging kit, measuring tape and all necessary supporting poles, cables, adapters to run complete RTK and static dGPS system and post processing process.
Operating Temp	-40°C to +65°C
Humidity	100%
Drops	Withstands 1m drop onto hard surfaces
Data Format	Must have capability to provide data in standard GIS format as well as raw data and functionality of conversion to RINEX data.
Training	Onsite training of one week on complete functionalities and features to any number of persons designated by the Department of the Geological Sciences, GU at no extra cost is to be provided.
Warranty	1 year or more onsite warranty

C. 5KVA ONLINE UPS WITH EXTERNAL BATTERIES AND REPLACEMENT OF BATTERIES OF 2 NOS. OF 5KVA UPS

1	<p>One (1) Online 5KVA UPS with external batteries ; 180-265v input voltage; 50Hz±6% input frequency, 230V± 2% output voltage with single phase AC, online double conversion type, pure sine wave , transient recovery IN<20msec, power factor 0.8, SMF battery bank designed to cater the 50% UPS load for 10 hours, Inverter technology IGBT,</p> <p>Essential feature of the UPS:</p> <ul style="list-style-type: none">• Specific voltage output stability incase of wide input voltage range.• Intelligent battery management system.• High Overload Capacity.• High Reliability for maximum system availability• LCD Display and Mimic panel for realtime information.• Auto Transfer Facility.• OEM certificate to be provided• 5 years comprehensive warranty
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