

Amended Tender Notice

Amended Tender Notice in place of earlier published tender dated March 6, 2019 of Department of Geology, University of Lucknow, invites sealed tenders from eligible bidders for the supply of Equipments and software as given in Table 1 under the DST-PURSE Scheme and DST-FIST Scheme, Government of India, New Delhi.

Separate tenders for each item mentioned must be submitted at office of Head of Department Department of Geology, University of Lucknow by 02:00PM on 08/04/2019.

For Tender Documents, Tender Fee, EMD, Specifications and other details please visit our website: www.lkouniv.ac.in

(i)	LU/GEOLOGY/PURSE/01/TNTmips Pro V2018 GIS and Remote Sensing Software with dedicated and Compatible Desktop Hardware,	DST-PURSE
(ii)	LU/GEOLOGY/PURSE/02/Tri-Axial Rock Testing System with compatible accessories,	
(iii)	LU/GEOLOGY/ PURSE /03/Fume hood,	
(iv)	LU/GEOLOGY/ FIST/01/SEM with EDS,	DST-FIST
(v)	LU/GEOLOGY/ FIST/02/Water Purification System,	



(Prof. Rameshwar Bali)
Head of the Department of Geology
Lucknow University

DEPARTMENT OF GEOLOGY
UNIVERSITY OF LUCKNOW

Lucknow- 226007

AMENDED TENDER DOCUMENT

Tender No. - LU/GEO/DST/PURSE-FIST/01/2018

Date: 16-03-2019

Sealed and separate tenders in two parts i.e. tender bid-I (Technical) and tender bid-II (Financial) are herewith invited for the Equipments given in table 1 under the DST-PURSE and DST-FIST Scheme, Government of India, New Delhi along with tender fee and mentioned Earnest money deposit for each item as separate Demand Drafts in favour of *Finance Officer, University of Lucknow, Lucknow*. Both the technical and financial bids, sealed in separate envelopes should be kept together in one large envelope. The tender should be submitted at the Department of Geology latest by 02.00 PM on 08.04.2019.

Table 1			
Sr. No.	Items Name	Tender Fee (In form of Demand Draft)	Scheme
(i)	LU/GEOLOGY/PURSE/01/TNTmips Pro V2018 GIS and Remote Sensing Software with dedicated and Compatible Desktop Hardware,	INR 5000+ 18%GST	DST- PURSE
(ii)	LU/GEOLOGY/PURSE/02/Tri-Axial Rock Testing System with compatible accessories	INR 7000+ 18%GST	
(iii)	LU/GEOLOGY/ PURSE/03/Fume hood,	INR 1000+ 18%GST	
(iv)	LU/GEOLOGY/ FIST/01/SEM with EDS,	INR 10000+ 18%GST	DST-FIST
(v)	LU/GEOLOGY/ FIST/02/Water Purification System,	INR 1000+ 18%GST	

Terms & Conditions

1. Tenders are being invited from the firms empanelled by Government of India and authorized by principals for purchase of equipments for research purpose in the Department of Geology, University of Lucknow. The firm will also complete the installation and commissioning of these equipments.
2. The technical specifications of equipments are attached as Annexure I and II.
3. For the propriety items, propriety certificate should be attached along with the certificate of authorization of vendor from the Principals.

4. Tenders should be submitted either in person or by post in sealed envelopes on which name of equipment, tender number and date along with name and address of the firm should be written.
5. TECHNICAL BID shall contain (i) Tender Fee (non-refundable) (ii) Earnest Money Deposit (iii) Copies of PAN, GST and Sales Tax Registration and other necessary documents, (iv) Income Tax Return for last three years (v) Authorization certificate (vi) Turn over documents
6. FINANCIAL BID shall contain the details of cost of equipment along with accessories, taxation details, and any other charges, if applicable. Any overwriting and/or cutting on the Financial Bid is not allowed.
7. Tenders received after due date and time will not be considered.
8. EMD should be in form of bank guarantee/NSC/FDR pledged in favour of Finance Officer, University of Lucknow, payable at Lucknow.
9. EMD of all unsuccessful bidders will be refunded after opening of tenders. However, EMD of successful bidder will be held and adjusted in security amount.
10. The tender fee is non-refundable.
11. The successful bidders have to deposit security in form of bank guarantee/ NSC/FDR pledged in favour of Finance Officer, University of Lucknow, payable at Lucknow. Security deposit will be 10% of the cost of equipment. The security deposit will be released after the 2 months from the installation and demonstration of the equipment/software.
12. Price quoted should include delivery at the Department of Geology, University of Lucknow, Lucknow-226007 along with the cost of shipment, custom duty, custom clearance, insurance, installation, commissioning and demonstrations in the department. Rates of SEM with EDX should be in foreign exchange only. For SEM with EDX, LC would be opened for 100% amount where 90% of the payment will be made on submission of supply of shipment related documents and balance 10% will be made after 2 months from installation, commissioning and demonstration of equipment.
13. Conditions regarding validity of tenders, delivery period, payment discount, warrantee and guarantee period, GST, custom duty and insurance etc. should be mentioned clearly. Net prices should be quoted. DSIR certificate for Custom duty exemption issued to University of Lucknow will be provided.
14. The items and quantity mentioned in bill of quantity against each items will be treated as provisional and it may be changed depending on actual requirement.
15. No Extra charges will be given in period of AMC.
16. Quoted rates for all equipments except SEM with EDX should be in INR only and valid for at least six months from the date of opening of tender.

17. Tenders without EMD will not be entertained.
18. A minimum turnover of the bidders should be INR 1 crore in last 3 years.
19. Payment will be made only after successful installation and commissioning of equipments and due verification and getting report by external technical expert.
20. Insurance shall be done by the suppliers at their own cost.
21. If the supply is not made within the period specified in the purchase order, the firm shall be liable to pay a penalty at the rate of 0.10% of value of purchase order per day. However this can be waived off by the Hon'ble Vice Chancellor under special circumstances. If the firm fails to supply the equipments, the earnest money deposit will be forfeited.
22. Deduction of TDS as per Govt. Rules.
23. Tenders will be opened in the presence of Tender Committee and bidders or their authorized representatives who wish to be present on the date of opening of tender. Tender will open in committee room of Vice chancellor office at 4:00 PM on 08.04.2019.
24. Conditional tenders will not be accepted.
25. Authorized signatory has to keep all the original documents at the time of opening of tender.
26. The Registrar, University of Lucknow, Lucknow has the right to accept or reject any or all tenders without assigning any reason.
27. The successful bidder shall enter into an agreement with University of Lucknow on Rs 100/- non judicial stamp paper under GO no A-3591-term 5210(105) dated 22-03-1983.
28. Any dispute will be subject to Lucknow Jurisdiction only.

I/We have read and understand the above terms and conditions and agree to abide by them.

Authorized Signatory & Seal of the Bidder/Proprietor

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TENDER BID-I (Technical)

Tender	Supply of Equipments and software under the DST-PURSE Scheme and DST-FIST Scheme
Equipment No. & Name	
Name of the firm with full address and contact number	
For	Department of Geology, University of Lucknow, Lucknow-226007 (U.P.)
Tender Document fee Details	DD No: Amount: Bank: Date: Drawn in favour of Finance Officer, University of Lucknow, payable at Lucknow (U.P.).
Earnest Money Deposit details	Details of EMD Pledged in favour of Finance Officer, University of Lucknow Amount: Date:
PAN and GST No details	PAN No. Date GST registration No. Date Valid upto: (Attach self-attested Photocopies) (if applicable)
Acceptance of terms and conditions	A signed copy of the acceptance of the terms and conditions
Income Tax Return of last three years	Attach self-attested Photocopies
Original Equipment Manufacturers/ Authorization Letter from O.E.M.	Attach Certificate/proof
Turnover in the last three years	Attach self- attested Photocopies
Details of Similar Work Executed during last Three years	Attach list of work orders with their copies
Place of Tender Submission	The Head office, Department of Geology, University of Lucknow, Lucknow-226007 (U.P.)
Last Date of Tender Submission	Date:- 08-04-2019 Time:- 02.00PM
Place of Tender Opening	Committee Room of Vice Chancellor office, University of Lucknow
Opening of Tender	Date:- 08.04.2019 Time:- 4:00 PM

Signature and Seal of Bidders

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Financial Bid-II

LU/GEOLOGY/PURSE/01/TNTmips Pro V2018 GIS and Remote Sensing Software with dedicated and Compatible Desktop Hardware

EMD: INR 20000/-

Sr. No	Particular	Specification	Quantity	Rate*	Total
1.	TNTmips Pro V2018	GIS Spatial Analysis Image Processing RADAR Analysis Hyperspectral Analysis Surface Modelling Watershed Modeling Network Analysis Directional Analysis Stereo Viewing View shed Cartography Software Dev .Kit TNT atlas FlyThrough Animation Web Publishing One Manual Features of TNTview,TNTedit,TNTAtlas	Five (5) user License		
		Full Software Training at department of Geology University of Lucknow			
2.	With Dedicated and Compatible Desktop Hardware	Desktop System Intel Core i3 Processor CPU speed 3.2 Ghz 4GB DDR3 RAM 1 TB SATA HOD 18.5" Monitor Windows 7 Pro	Five (5) unit	Rate per unit	
3.	AMC on software and hardware	Software update and support for 3 Year or more after warranty period. Addition AMC for 3 Year after completion of warranty period.			

*Rate shall be inclusive of the cost of equipment along with accessories, taxes etc., any other charges if applicable, including cost of custom duty, shipment, custom clearance, insurance etc.

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Financial Bid-II

LU/GEOLOGY/PURSE/02/Tri-Axial Rock Testing System with compatible accessories

EMD: 40000/-

Sr. No	Particular	Quantity	Rate*	Total
1.	<p>Loading Unit 1000 kN</p> <p>The loading unit is of fully welded construction having a cross head, base and solid side plates. The hydraulic jack is fixed to the base. The platens of the machine are hardened, ground and polished. The upper platen is provided with self-aligning action. To facilitate testing of various size specimens, suitable sized spacers are provided Loading rate: 1-10kN/Sec. and least count : 0.1kN</p> <p>Maximum and Minimum Platen Clearance</p> <p>Max. Clearance between Platen: 390mm</p> <p>Max. Distance between side platens: 260mm</p> <p>Spacers: Diameter 155mm or more</p> <p>and height vary from 20mm to 100mm</p> <p>It should be fully automated version and has provision for automatically turning the pump on and off, controlling the set pace rate and switching the machine off under pre-determined conditions. The control releases the pressure at the every run and reinitializes the machine at the beginning of every test. The pace rate is maintained by means of full three term PID feedback control using high torque stepper motors and drivers sets.</p>	One (01)		
2.	<p>Pumping unit</p> <p>This has a 0.5 hp, 1 Ph, 220V AC motor driven two-speed hydraulic pump and a bonded strain gauge based Pressure transducer.</p>	One (01)		
3.	<p>8 Channel Indicator with data logger and software</p> <p>Sampling rate : 1 sample/sec/channel</p> <p>Current : Configurable for 4-20mA input</p> <p>Connector Type: USB or Wifi</p> <p>Record: Strain (resistance), Stress (Load)</p>	One (01)		
4.	<p>Constant Pressure System, 600 kg/cm²</p>	One (01)		

	<p>It should be designed to provide confining pressure upto 600 Bar. The system consists of an oil pump, continuously driven by an electric motor during the entire period of operation to maintain the desired pressure. The unit provides continuous variable pressure upto 600 bar, which can be increased or decreased simply by turning control knob.</p> <p>Supplied complete with pressure gauge, flow valves and connecting pressure hose.</p> <p>Range: 0-600 Kg/Cm Sq.</p> <p>Steps of Pressure: 1 Kg/Cm Sq.</p> <p>Accuracy: $\pm 1\%$ of indicated Load</p> <p>Suitable for operation on 220V, 50 Hz, Single Phase, AC supply.</p>			
5.	<p>Hoek Cell for Triaxial Testing of Rock Samples of exact dia 38 mm</p> <p>It should be comprised of Steel body having top and bottom caps screwed on to the main body. A urethane rubber sleeve incorporating U-shaped seals to form a pressurization chamber for the hydraulic fluid is mounted within the cell. Plunger & spherical seat – duly hardened & ground are provided for self-alignment & application of axial load.</p>	One (01)		
6.	Hoek Cell for Triaxial Testing of Rock Samples of exact EX size	One (01)		
7.	Hoek Cell for Triaxial Testing of Rock Samples of exact AX size	One (01)		
8.	Hoek Cell for Triaxial Testing of Rock Samples of exact BX size	One (01)		
9.	Hoek Cell for Triaxial Testing of Rock Samples of exact NX size	One (01)		
10.	Axial & Lateral Strain Measuring attachment with software and LVDT (Travel 5-20mm)	two (02)		
11.	<p>Strain Gauges</p> <p>Resistance: 120/350 ohm</p> <p>Dimensions: Length and Width : 5mm x 10mm</p> <p>Gauge Factor: 2.1 ($\pm 1\%$)</p> <p>Accuracy: NA</p>	One Thousand (1000)	Rate per Unit	

12.	Urethane Rubber sleeves 10 Nos	Ten (10)	Rate per Unit	
13.	Tensile Test Attachments: Pair of Jaws for 60mm dia samples	One (01)		
14.	Tensile Test Attachments: Pair of Jaws for 70mm dia samples	One (01)		
15.	Tensile Test Attachments: Pair of Jaws for 80mm dia samples	One (01)		
16.	Tensile Test Attachments: Pair of Jaws for 90mm dia samples	One (01)		
17.	Tensile Test Attachments: Pair of Jaws for 100mm dia samples	One (01)		
18.	<p>Computer Work Station</p> <p>Intel® Xeon® E3-1280 v5 (3.7 GHz, up to 4 GHz with Intel Turbo Boost Technology, 8 MB cache, 4 cores),</p> <p>64 GB DDR4-2133 Unbuffered SDRAM Transfer rates up to 2133 MT/s.</p> <p>4 UDIMM</p> <p>NVIDIA® Quadro® M4000 (8 GB)</p> <p>Window 10 Profession, MS office, Corel Draw</p> <p>Other compatible Accessories and Display screen(27") and Color Laser A3 Printer (Offline)</p>	One (01)		
19.	<p>Core Drilling Machine (without Bits) New Model</p> <ul style="list-style-type: none"> • It should be Heavy duty, pillar type frame with 1500W, single phase, AC motor • Varying cutting feeds provided with water-fed swivel head which can be connected to suitable water supply. • Provision at base for water collection / drainage • Core preparation from regular and irregular samples – Core size : EX to 100 mm • Clamping arrangement to hold specimens with regular/ irregular shapes to the base of machine • Two cutting speeds at no load 950/2100RPM. (Coring) • Suitable Water tank 5ltr. Is provided with the machine Facility to connect water supply directly will also be provided. 	One (01)		
20.	Core Diamond Drilling Bits 21.46mm dia (EX size)	One (01)		

21.	Core Diamond Drilling Bits 30.10mm dia (EX size)	One (01)		
22.	Core Diamond Drilling Bits 35mm dia	One (01)		
23.	Core Diamond Drilling Bits 42.04mm dia (BX size)	One (01)		
24.	Core Diamond Drilling Bits 54.74mm dia (NX size)	One (01)		
25.	Core Diamond Drilling Bits 50mm dia	One (01)		
26.	Core Diamond Drilling Bits 100mm dia	One (01)		
27.	<p>Core Cutting & Grinding Machine, Table Top Model</p> <p>35- 150mm dia., Manual / Auto feed</p> <p>It should have following features:</p> <ul style="list-style-type: none"> • Stable construction • Feed arrangement for cutting & polishing • Cooling water arrangement <p>The unit should be designed for cutting and grinding cylindrical rock specimens upto 150mm size. The outfit includes diamond impregnated cutter, a fine diamond impregnated grinding wheel and sample holder. Water pipe with necessary valve is provided for connecting to source of water. A water tank along with coolant pump, pipe & necessary valve is provided.</p> <p>A vice to hold the sample to be cut parallel and square to the longitudinal axis is provided to set correct length of sample, it is to be reversed and held in the same vice. A hand feed arrangement is provided to facilitate the specimen with a uniform and smooth feeding motion in floor mounted model. Provision for both manual and automatic feeding. Suitable for operation on 415 V</p>	One (01)		
28.	Core Cutting & Grinding Machine for small diameter 21mm to 35mm diameter	One (01)		
29.	<p>Quick problem /breakdown resolve for at least 3 Years of all components after completion of warranty.</p> <p>AMC Includes spares and consumables after warranty period.</p>			

* Rate shall be inclusive of the cost of equipment along with accessories, taxes etc., any other charges if applicable, including cost of custom duty, shipment, custom clearance, insurance etc.

Financial Bid-II

LU/GEOLOGY/ PURSE/03/Fume hood

EMD: INR 10000/-

Sr. No.	Particular	Quantity	Rate*	Total
1	<p>Fume hood</p> <p>Dimension in feet(L x W x H): (5x4x3) Standard: as per ANSI/ASHRAE 110 2016 or ISO Certified</p> <p>Material: FRP reinforced to withstand acid and acidic fumes.</p> <p>Power: 2HP 2280 RPM</p>	One (1)		
2	<p>Addition AMC for 3 Year after completion of warranty period</p>			

* Rate shall be inclusive of the cost of equipment along with accessories, taxes etc., any other charges if applicable, including cost of custom duty, shipment, custom clearance, insurance etc.

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Financial Bid-II

LU/GEOLOGY/ FIST/01/SEM with EDS

EMD: 80000/

Scanning Electron microscope (SEM) with Energy Dispersion Spectrometer

Sr. No.		Specifications	Quantity	*Unit price	Total
1.	SEM	Resolution	3nm (30kV or better)	One (1)	
Magnification/ zoom		5X to 300000X or better			
Accelerating voltage		0.5kV to 30kv or better			
Filament/source		Standard tungsten emitter unit or better			
Beam current/ probe		1 μ A or better			
Detector		SE, BSD, and EDS			
EDS		30mm ² LN ₂ free preferably, Energy resolution 129ev or better Latest and upgradable. Free up gradation up 10 year.			
Sputter coater		Gold coater to be supplied with targets 2 nos			
Maximum sample diameter		150 mm or bigger can be accommodated in SEM chamber			
Maximum sample height		48 mm or better			
Specimen Stage		5 axes motorized specimen stage. X: 110 mm or more Y: 100 mm or more Z : 45 mm or more Tilt: -10 to 90 Rotation: 360°			
2.	AMC	Quick problem /breakdown resolve for at least 5 Years of all components including supply of Filament, UPS after completion of warranty. AMC Includes spares and consumables after warranty period.			

3.	UPS	6KVA should be sufficient to withstand power breakdown of 15-30 minutes	One (1)		
4.	Computer system	The compatible Computer system with high storage 1. Three display 27 inch monitor 2. Intel Core i7 with latest generation 3. RAM 16 GB 4. Graphics card: 2GB 5. Storage: 2 TB 6. DVD 7. USB 8. Multi Display Unit add on	One (1)		

* Rate shall be inclusive of the cost of equipment along with accessories, taxes etc., any other charges if applicable, including cost of custom duty, shipment, custom clearance, insurance etc.

Financial Bid-II

LU/GEOLOGY/ FIST/02/ Water Purification System

EMD: INR 10000/-

Sr. No.	Particular	Quantity	*Rate	Total
1	Water Purification System Technical Specifications: 1. All quartz double distillation unit 2. Demountable Boiler panel Series 3. Distilled water output capacity – more than 2.5 litre/hour 4. Pre-filter to decrease fed water 5. TDS < 200 ppm, 6. Pump to maintain input water pressure 0.1-0.4 MPa 7. Output water quality; ph: 6.9to 7, conductivity < 10 ⁻⁶ S/cm 8. Total organic carbon < 500ug/l 9. Distilled water storage: 10 lt or higher	One (1)		
2	Addition AMC for 3 Year after completion of warranty period			

*Rate shall be inclusive of the cost of equipment along with accessories, taxes etc., any other charges if applicable, including cost of custom duty, shipment, custom clearance, insurance etc