



कुलसचिव कार्यालय

लखनऊ विश्वविद्यालय

लखनऊ-226007

संदर्भ संख्या :

दिनांक :

UNIVERSITY OF LUCKNOW
LUCKNOW

Sealed tenders from eligible bidders are invited for supply and commissioning of Lab Equipments in the Faculty of Engineering, Lucknow University, Second Campus, Jankipuram, Lucknow- 226031, for the laboratories: Electrical Engineering, Mechanical Engineering, Electronics and Communication Engineering and Civil Engineering.

For details visit www.lkouniv.ac.in

Registrar

(Prof. R.K. Singh)

Registrar

No E-5896-9.1

Date...07/03/18

Copy forwarded to the following for information and necessary action:

1. Secretary to Vice-Chancellor for kind information of Hon'ble Vice- Chancellor, University of Lucknow.
2. P.S. to P.V.C. for kind information of Pro- Vice- Chacellor, University of Lucknow.
3. Coordinator, Faculty of Engineering, University of Lucknow with request to kindly arrange four tender boxes at Faculty of Engineering, Sencond Camous, Jankipuram, Lucknow- 226031.
4. Director IPPR, University of Lucknow with request to publish the advertisement in 02 newspapers.
5. Prof. Anil Mishra, Director Data Resource Center, Lucknow University, Lucknow for favour to upload on the University website.
6. P.A. to Registrar, University of Lucknow.


Registrar

FACULTY OF ENGINEERING
UNIVERSITY OF LUCKNOW
Second Campus, Jankipuram, Lucknow-226031 (U.P.)

TENDER NOTICE

The University of Lucknow, Lucknow invites sealed tender from eligible bidders for supply and commissioning of Equipments for **Mechanical Engineering laboratories** of Faculty of Engineering, University of Lucknow, Second Campus, Jankipuram, Lucknow-226031 (U.P.). Separate tenders must be submitted at University of Lucknow for each package of following Mechanical Engineering Laboratories:

- | | |
|---------------------|-----------------------------------------|
| Package – FOE/ME/01 | - Strength of Materials Laboratory |
| Package – FOE/ME/02 | - Thermodynamics Laboratory |
| Package – FOE/ME/03 | - Material Science & Testing Laboratory |
| Package – FOE/ME/04 | - Manufacturing Science Laboratory – I |
| Package – FOE/ME/05 | - Measurement & Metrology Laboratory |

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

REGISTRAR
University of Lucknow

FACULTY OF ENGINEERING
UNIVERSITY OF LUCKNOW
Second Campus, Jankipuram, Lucknow-226031 (U.P.)

TENDER DOCUMENT

Tender No. - 02/FOE/LU/2018

Date: 07.03.2018

Sealed and separate tenders in two parts i.e. tender bid-I (Technical) and tender bid-II (Financial) are herewith invited for Supply & Commissioning of Mechanical Engineering Laboratory Equipments at **Faculty of Engineering, University of Lucknow, Second Campus, Jankipuram, Lucknow-226031 (U.P.)**, along with Earnest money (Mentioned with package/unit) in the shape of Demand Draft of Nationalized Bank in favour of Finance Officer, University of Lucknow, Lucknow (U.P.). Both envelopes should be kept in one big envelope. The tender should reach to the undersigned latest by 03.04.2018 at 02.00 PM.

Terms & Conditions

1. Tenders are being invited for purchase and commissioning of equipments to establish various laboratories. Each Laboratory will be treated as one package/unit. It is expected that a firm selected for the establishment of a Laboratory shall supply all the equipments of that laboratory. The firm will also complete the work of installation/mounting and commissioning of these equipments.
2. Details of equipments/materials are as per bill of quantity attached.
3. Tenders should be submitted either in person or by post in sealed envelopes on which name of package/unit, tender number and date along with name and address of the firm will be written.
4. **TENDER BID-I** (Technical) shall contain (i) Tender cost (non refundable) (ii) Earnest Money (iii) Proof of PAN and GST registration documents (iv) Standing of the firm (v) Major supplies executed in recent past (vi) Authorized dealer certificate from OEM & Commercial terms and conditions.
TENDER BID-II (Financial) shall contain rate schedule only. The rates must be quoted both in figures and words. Any overwriting and/or cutting must be duly signed failing which tenders are likely to be rejected.
5. Tenders received after due date and time will not be considered.
6. EMD of all unsuccessful bidders will be refunded after opening of tenders. However, EMD of successful bidder will be refunded only after installation and commissioning of equipments and due verification by concerned authority.

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7. DD of Rs. 1000/- being cost of tender has to be attached with Tender form in favour of **Finance Officer, University of Lucknow** payable at Lucknow, which is not refundable in any case.
8. Price quoted should be F.O.R. **Faculty of Engineering, University of Lucknow, Second Campus, Jankipuram, Lucknow-226031 (U.P.)**.
9. Detailed specifications and make of the equipments/ materials must be given.
10. Quoted items should be strictly in order of merit with serial number and metric unit otherwise the tenders are liable to be ignored.
11. 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.
12. No sales tax form "CZX" or "D" etc. for concessional rates shall be provided by the University.
13. Quoted rates should be valid for at least **six months** from the date of opening.
14. Tenders without sample wherever required may not be accepted.
15. In case of imported equipments, commission allowed to agents must be specifically mentioned.
16. Free demonstration shall be done in the University premises if required.
17. Insurance shall be done by the suppliers at their own cost.
18. Tenders without mentioned earnest money deposit will not be entertained.
19. Standing of the firm and major supplies in recent past with proof must be attached.
20. In case of dealers, authorized distributors, dealer's certificate from OEM is required
21. Document through bank and advance payment on proforma invoice may not be accepted.
22. 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.
23. Payment will be made only after successful installation and commissioning of equipments in the concerned Laboratory and due verification by concerned authority.
24. If the supply is not made within one month, the firm shall be liable to pay a penalty equal to 0.10% of value of purchase order per day. However this can be waved 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.
25. Deduction of TDS as per Govt. Rules.
26. 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.
27. Any dispute will be subject to **Lucknow (U.P.)**, Jurisdiction only.
28. Conditional tenders will not be accepted.
29. Authorized signatory has to keep all the original documents at the time of opening of tender.
30. The Registrar has the right to accept or reject any or all tenders without assigning any reason.

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

Authorized Signatory & Seal of the Bidder/Proprietor

FACULTY OF ENGINEERING
UNIVERSITY OF LUCKNOW
Second Campus, Jankipuram, Lucknow-226031 (U.P.)

TENDER BID-I (Technical)

Tender	Purchase and Commissioning of Equipments for Mechanical Engineering Laboratories
Package No.	
Name of the firm with full address and contact number	
For	Faculty of Engineering, University of Lucknow, Second Campus, Jankipuram, Lucknow-226031 (U.P.)
Cost of Tender Document	DD No: Amount: Bank: Date: Drawn in favour of Finance Officer, University of Lucknow, payable at Luckow (U.P.).
Earnest Money Deposit	DD No: Amount: Bank: Date: Drawn in favour of Finance Officer, University of Lucknow, payable at Luckow (U.P.).
PAN/GST No	PAN GST (Attach proof)
Income Tax Return of last three years	Attach Copy
Original Equipment Manufacturers/Authorization Letter from O.E.M.	Attach proof
Turnover in the last three years	Attach proof
Details of Similar Work Executed during last Three years	Attach proof
Place of Tender Submission	Office of the Coordinator, Faculty of Engineering, University of Lucknow, Second Campus, Jankipuram, Lucknow- 226031 (U.P.)
Last Date of Tender Submission	Date:- 03.04.2018 Time:- 02.00 PM
Place of Tender Opening	Registrar Office, Committee Room, Lucknow University (Old Camous), Lucknow.
Opening of Tender	Date:- 03.04.2018 Time:- 04.00 PM

TENDER BID-II (Financial)**Package- FOE/ME/01: Strength of Materials Laboratory**

Tender Cost: Rs. 1000/-

EMD: Rs. 5000/-

Bill of Quantity

S.No.	Equipment/Item Name	Specification/experiment	Quantity	Rate	Amount
1.	Buckling Testing Machine	1. To determine critical buckling loads for columns with support. 2. To examine Euler theory of buckling. 3. To investigate the influence of different material parameters.	01		

TENDER BID-II (Financial)

Package- FOE/ME/02: Thermodynamics Laboratory

Tender Cost: Rs. 1000/-

EMD: Rs. 6000/-

Bill of Quantity

S.No	Equipment/Item Name	Specification/Experiment	Qty.	Rate	Amount								
1.	Separating And Throttling Calorimeter Apparatus	Complete setup with all necessary equipments.	01										
2.	Bomb Calorimeter	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Duty Cycle</td> <td>Continuous</td> </tr> <tr> <td>Power Consumption</td> <td>220/230V, AC Supply Single Phase +/-10% 50 Hz</td> </tr> <tr> <td>Housing Material</td> <td>Brass/ S.Steel duly Nickled Chromium plated water jacket S.S vessel S.S. Bomb</td> </tr> <tr> <td>Water Vessel Optional</td> <td>Oxygen Cylinder</td> </tr> </table>	Duty Cycle	Continuous	Power Consumption	220/230V, AC Supply Single Phase +/-10% 50 Hz	Housing Material	Brass/ S.Steel duly Nickled Chromium plated water jacket S.S vessel S.S. Bomb	Water Vessel Optional	Oxygen Cylinder	01		
Duty Cycle	Continuous												
Power Consumption	220/230V, AC Supply Single Phase +/-10% 50 Hz												
Housing Material	Brass/ S.Steel duly Nickled Chromium plated water jacket S.S vessel S.S. Bomb												
Water Vessel Optional	Oxygen Cylinder												
3.	Cochran Boiler	Model	01										
4.	Cornish Boiler	Model	01										
5.	Steam Engine	Model	01										
6.	Velocity compounded steam turbine	Model	01										
7.	Pressure compounded steam turbine	Model	01										
8.	Impulse and Reaction turbine	Model	01										
9.	Gas Turbine	Model	01										
10	Window AC	Model	01										
11	Refrigerator	Model	01										

TENDER BID-II (Financial)

Package- FOE/ME/03: Materials Science & Testing Laboratory

Tender Cost: Rs. 1000/-

EMD: Rs. 12000/-

Bill of Quantity

S.No.	Equipment/Item Name	Specification/experiment	Quantity	Rate	Amount
1.	Spring Testing Machine	with digital indicator Measuring Capacity (N)-0-2500 Least Count- 5.0 Elongation Scale – 1mm With appropriate motor	01		
2.	Plastic Moulding Machine Injection/Press alongwith Plastic Granules (Thermo Plastic and Thermosetting Resin)	With different metallic mould for Small Different Specimen Max 4000 pound/inch ² (350kg/cm ²)	01 Granules 5kg each		
3.	Abrasive cut-off Wheel Machine with cooling arrangement	For Different Metals (18" dia wheel) Spindle size 32mm	02		
4.	Hand Polisher (sanders board) alongwith Polishing papers	0.5 to 1 hp Polishing papers (0, 00, 000, 0000)	02 01 each packets of 100 nos.)		
5.	Polishing Machine with consumables, polishing cloth & polishing powder (1000 grade Al ₂ O ₃ SiC powder	Double Disk Type (8 in diameter) with coolant arrangement Polishing powder (1000 grade Al ₂ O ₃ & SiC powder	02 Polishing Cloth- 5m 2kg each		
6.	Muffle Furnace	Max Temperature 1200° C with digital temperature indicator PDI control	01		
7.	Metallurgical Microscope	Magnification 1500 to 2000	02		
8.	Faraday's Law of electrolysis apparatus	0.1 to 1 A and 1 to 10 Amp, Ammeter and voltmeter, with Platinum electrode and iridium(30g & 18g)	01		
9.	Single Pan Electronic Balance	Upto 200g	01		

TENDER BID-II (Financial)

Package- FOE/ME/04: Manufacturing Science Laboratory- I

Tender Cost: Rs. 1000/-

EMD: Rs. 9000/-

Bill of Quantity

S.No.	Equipment/Item Name	Specification/experiment	Quantity	Rate	Amount
1.	Power Hammer	Type: Mechanical , Head weight: 22.5-25 kg, Complete with anvil and electrical accessories	01		
2.	Sieve Shaker	With different grade sieve sheets designed to carry upto 7 sieves of 8 inch dia. It is driven by 1/4 HP electric motor, through reduction gear. Gear driven mechanism circular end to end motion. The tapping motion from top. To work on 220/230 Volts Single Phase A.C.	01		
3.	Tube Bending	Manual	01		
4.	Hydraulic Press complete setup	15-20 Tonnes capacity	01		
5.	Wire Drawing Set up	Manual	01		
6.	Sand Mixer Muller	Material SS Operation Type : Semi Automatic	01		

TENDER BID-II (Financial)

Package- FOE/ME/05: Measurement & Metrology Laboratory

Tender Cost: Rs. 1000/-

EMD: Rs. 7000/-

Bill of Quantity

S.No.	Equipment/Item Name	Specification/ Experiment	Quantity	Rate	Amount
1.	Vernier caliper	300mmx0.02mm	02		
2.	Micrometer	0-25mm Outside Micrometer	02		
3.	Tachometer	Tachometer Contact & Non Contact Type 2 In 1	01		
4.	Sine bar	100mm, 200mm each	2		
5.	Slip Gauges	Grade 2, set of 112 pieces	1 set		
6.	Dial Indicator	50mm Dial Indicator	1		
7.	Feeler Guage	150mm Feeler Gauge	1 set		
8.	Bevel Protector	Resolution : 0.083° Range : 0-360° Material : Stainless Steel	1		
9.	Themocouple Calibration Test Rig	A digital mV Meter and a digital temperature indicator with 2 different type of thermocouples. A water container with heater of 1 KW.	1 set		
10.	Tool Makers Microscope	Optical Tube : Monocular Magnification :30x, 75x & 150x. Illumination : Built in base transmitted from 6V – 20W Halogen lamp or LED 3W and incident from two lamps with variable separate control on front panel. Objectives : 2x.	1 No.		
11.	LVDT trainer kit	To determine linear range of operation of LVDT. To determine sensitivity of LVDT. To measure Phase	1		

		difference between LVDT secondary.			
12.	Pressure Calibrator with Master Pressure Gauge (Analog)	Base plate Stainless Steel Instrument Mounting Ports :2 Suitable for Water or Oil With Suitable Pressure Adapters Pressure Range 0-200 kg/cm ²	1 No.		
13.	Optical Stroboscope	100-10,000 rpm, Type: Digital Stroboscope Display: 10 mm , LED Accuracy: 0.05% + 1d Resolution: 0.1 rpm <1000 rpm	01		
14.	Plug gauge	20 mm Dia, 1.5 mm Class 6H Metric	02		
15.	Plug & ring taper gauge	MT2, MT3	1 each		