

Department of chemistry
University of Kerala,
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No. DC/ST/Eq/9/2018-19

E-TENDER NOTICE

Tenders are invited for the "Supply, Installation and commissioning of "**Wear and Friction monitor**" through e-tender only.

Tender notification Date	:- 26/02/2019
Last date of issuing tender document through www.etenders.kerala.gov.in	:- 12/03/2019
Last date of Receiving e-tender through www.etenders.kerala.gov.in	:- 12/03/2019
Date of Opening Technical Bid	:- 15/03/2019
Date of Opening Financial Bid	:- After Technical Evaluation
Earnest money Deposit	:- INR 6,000/-
Tender fee	:- INR 1344/-

Tender Submission: - Two part tender comprising of Technical bid and Financial Bid shall be submitted through e-tender website www.etenders.kerala.gov.in

Tender Inviting authority: Assistant Professor and Head, Department of Chemistry, University of Kerala, Kariavattom Campus, Thiruvananthapuram, Kerala-695581.

Item: Wear and Friction Monitor

Quantity: 1 No

Specifications:

Pin diameter	3, 6, 8, 10 and 12 mm diameter
Disc diameter	165 x 8 mm
Top sample material	Brass, Aluminum and Steel
Bottom sample material	EN 31 hardened to 58 to 62 HRC
Ball diameter	10 mm
Disc rotation Speed	200 – 2000 Rpm
Wear Track dia. Mean	50 – 100 mm
Load range	2 – 200 N
Sliding velocity	0.5- 10 m/s
Frictional Force	0 – 200N
Wear Measurement	0 – 2000 μ M (1 μ M LC)

Power	230 V, 50 Hz, S phase
Stroke	Step variable 2 to 12.5 mm
Accessories	Universal bottom sample holder
Instrument shall have the following capabilities	1.Shall record and display frictional force and compound wear 2. ACACA signal processing 3.Online data acquisition system
Warranty: Two years comprehensive Warranty is required wherever applicable. If any component is found to be defective during the warranty period, the vendor has to replace the defective item immediately at their own cost	

Documents to be uploaded

1. Technical bid

1. Signed Compliance Matrix on specifications
2. Detailed Technical Brochure

2. Financial bid

1. BoQ

General Conditions:

1. The Bidder should be a manufacturer or their dealer specifically authorized by the manufacturer to quote on their behalf for this tender as per Manufacturer Authorization Form and Indian agents of foreign principals , if any. Who must have designed, manufactured, tested and supplied the equipment(s) similar to the type specified in the "Technical Specification". Such equipment must be of the most recent series/models incorporating the latest improvements in design.
2. Incomplete & conditional tenders and tenders received after the due date will be summarily rejected without assigning any reasons thereof.
3. The price should be inclusive of all taxes, transportation, installation etc. Nothing extra will be paid in addition to the quoted rate.
4. Payment Terms: 90% payment shall be made through irrevocable L/C on presentation of complete and clear shipping documents and balance 10% of the amount shall be released after the receipt, installation, commissioning and acceptance of the equipment.
5. Validity of tender: Tender submitted shall remain valid at least for 90 days from the date of opening the tender. Validity beyond three months from the date of opening of the tender shall be by mutual consent.
6. Users list of the specified model, preferably from research centres within Kerala, Names of Institutes with contact person and telephone/email shall be mentioned in the bid. Performance Certificate from at least 3 research centres, preferably in Kerala shall be an added advantage.

7. Delivery and installation: Proposed delivery schedule should be mentioned clearly. Delivery and installation and training for a minimum of three people should be made at Department of Chemistry, University of Kerala, Kariavattom campus, Trivandrum- 695581, without any extra cost.

8. Service facility: The supplier should be fully equipped to render after sale service during warranty and thereafter, facility for servicing/maintenance of the equipment after sales should be clearly mentioned in the quotation.

9. The model number, make, and a printed literature of the product shall submit positively.

10. A signed compliance matrix (on specifications and conditions) to be submitted along with the quote.

11. In case of any dispute, the decision of the University authority shall be final and binding on the bidders.

12. The undersigned reserves the right to reject any or all of the tenders received without assigning any reason thereof.

The Head
Department of Chemistry
University of Kerala