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THAPAR INSTITUTE OF ENGINEERING & TECHNOLOGY

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Enquiry No. TIET/CS/AA/CED/18341

Dated: October03 -2018

Sub: Request for Quotation(s) for supply of Electrochemical work Station

Dear Sir

We shall be grateful if you kindly let us have your lowest **quotations** for the following materials/equipment. THE QUOTATIONS SHOULD REACH THE UNDERSIGNED **LATEST BY** 16 October 2018 through courier or e-mail (quotation sent by mail from distant locations needs also to be validated through courier/ regd post as hard copy) accompanied by appropriate illustrative literature/catalogues/pamphlets/technical details and specifications as the case may be.

On the quotation envelope/ subject the Enquiry Number & Date should be mentioned on the top of the Envelope/mail subject, quotation received after due date will not be considered and it must split and submitted in technical bid and commercial bid separately with technical bid to have list of references for same equipment/material supplied.

Sr. No.	Item Name	Qty.
* 1		
1.	Electrochemical work Station	01set
	Specifications as per attached sheet	

The offer sent by you must furnish the following mandatory details / enclosures in price bid:

- 1. Name, Make & specifications of each item.
- Delivery FOR Thapar Institute of Engineering & Technology, Patiala/ CIP Delhi for import products kindly mention HSS code of each product and attach copy of BOE of item last cleared in support

2. Cost of the item with MRP.

7. Insurance, Freight & other charges if any.

3. Educational discount if any.

- 8. Minimum Delivery Period.
- 4. Validity of quotation should be at least 60 Days.
- 9. Payment terms. Net 60 days against delivery or satisfactory installation at Thapar Institute whichever applicable

GST extra.

10. Guarantee / Warranty Information.

Regards,

Sd/-

Head Commercial

MULTICHANNEL ELECTROCHEMICAL WORKSTATION

Multichannel System for upto 10 potentiostat ,galvanostat or more .System may be supplied in 2 or

Each channel should have following specifications.

NUMBER of Channels required: 2

Electrochemical Workstation

Specifications:

Compliance voltage: \pm 12 V or better at \pm 500 mA or more

Maximum Output Current: \pm 500 mA or better at \pm 12 V or more

Output Voltage Range: ± 10 V or more

Current Ranges: smallest current range: ± 10 nA to current range 100 mA in multiple ranges or more Potentiostat Rise/fall Time: 500 ns or better

Interface: USB interface for connection with PC

The system should be upgradeable with accessories 10 A current booster, Electrochemical Quartz

Crystal Microbalance ,Rotating Ring disc electrode ,Spectrophotometer etc

Hardware for EIS measurements: Qty 1

Hardware and software for EIS measurements in potentiostatic and galvanostatic control, over frequency range of 10 μ Hz to 1 MHz. It should be possible to perform EIS measurements over entire frequency range from 10 µHz to 1 MHz upto 500 mA currents. Data presentation: Nyquist, Bode, Admittance, Dielectric, Mott-Schottky, Data analysis: Fit and Simulation, Find circle, Element subtraction

Electrometer for Auxiliary Signal Measurement: Qty 1 no

Hardware for measurement of pH, temperature in parallel with an electrochemical measurement

Electrochemistry Cell:

It should consist of the following:

10 mL to 80 ml Glass cell 1 no ,disc working electrodes with active area diameter 3 mm of GC, 1no, Pt wireCounter electrode 1 no, Ag/AgCl reference electrode double junction type for use in Aqueous and Non-Aqueous media 1 no

Electrochemical Software:

Software should have facility to record additional signal viz EQCM, bi-potentiostat etc. Import/export ASCII. Ready-to-use Vis & Generic interface for.Net applications should be included. It should have facility to display up to 4 plots simultaneously. The software should support following basic electrochemical measurements: Cyclic Voltammetry, Sampled DC Voltammetry. Taffel Plots, Differential Pulse Voltammetry, Square Wave Voltammetry. Electrochemical methods like Chrono-Amperometry, Chrono-Coulometry& Chrono-Potentiometry. The software upgradation

Computer & Printer:

Compatible branded PC with i5 configuration , Printer, 2 KVA Online UPS with one hour back up