Head Commercial

Kind Attention Mr. Ashawini Agarwal

The amendments are marked by pen. Please note

Marshini Ghol, HBTD

MULTICHANNEL ELECTROCHEMICAL WORKSTATION

6 EIS Channels as Made.

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

Each channel should have following specifications.

NUMBER of Channels required: 2

Electrochemical Workstation

Specifications:

Compliance voltage: ± 12 V or better at ± 500 mA or more
Maximum Output Current: ± 500 mA or better at ± 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 2

Hardware and software for EIS measurements in potentiostatic and galvanostatic control, over frequency range of 10 μHz to 7 MHz. It should be possible to perform EIS measurements over entire frequency range from 10 μHz to 7 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

• Addition H Type Cell and Energy Education cell kit

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 should be free of cost

Computer & Printer:

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