



Ref No. INST/12(272)/2018-Pur

Date:28/05/2019

CORRIGENDUM

Reference to NIT no. INST/12(272)/2018-Pur published in national newspapers on 02/05/2019 for purchase of equipment: **Electrochemical Workstation**. Below mentioned technical points may be read and corrected as per following:-

Present Tender Specifications	Modified Specifications after pre-bid meeting
<p>Multichannel System for up to 12 potentiostat /galvanostat or more. System can be supplied in 1 or 2 chasis</p> <p>Each channel should have following specifications. Price for each should be quoted separately.</p> <p>No of Channels required: 3 No</p> <p>Electrochemical Workstation Specifications: Compliance voltage: ± 12 V or better at ± 400 mA or more Maximum Output Current: ± 400 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, Spectrophotometer etc.</p> <p>Hardware for EIS measurements: Qty 1 Hardware and software for EIS measurements in potentiostatic and galvanostatic control, over frequency range of 10 μHz to 1 MHz. It should be possible to perform EIS measurements over entire frequency range from 10 μHz to 1 MHz upto 400 mA currents. Data presentation: Nyquist, Bode, Admittance, Dielectric, Mott-Schottky, Data analysis: Fit and Simulation, Find circle, Element subtraction</p> <p>Hardware for BIPOTENTIOSTATIC measurements: Qty 1 no .</p>	<p>Multichannel System for up to 10 potentiostat /galvanostat or more. Price for each should be quoted separately for each channel.</p> <p>No of Channels required: 3 No</p> <p>Electrochemical Workstation Specifications: Compliance voltage: ± 12 V or better at ± 400 mA or more Maximum Output Current: ± 400 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, Spectrophotometer etc.</p> <p>Hardware for EIS measurements: Qty 1 Hardware and software for EIS measurements in potentiostatic and galvanostatic control, over frequency range of 10 μHz to 1 MHz. It should be possible to perform EIS measurements over entire frequency range from 10 μHz to 1 MHz upto 400 mA currents. Data presentation: Nyquist, Bode, Admittance, Dielectric, Mott-Schottky, Data analysis: Fit and Simulation, Find circle, Element subtraction</p> <p>Hardware for BIPOTENTIOSTATIC measurements: Qty 1 no .</p>



Module for conversion of the system into a two channel potentiostat with two working electrodes sharing the same AE & RE

Electrochemistry Cell:

It should consist of the following:

10 mL to 80 ml Glass cell 2 no , 300 ml 1 no ,disc working electrodes with active area diameter 3 mm of GC 2no, Pt wire Counter electrode 2 no, Ag/AgCl reference electrode double junction type for use in Aqueous and Non-Aqueous media 2 no ,Polishing kit and gas purging accessories 2 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. Tafel Plots, Differential Pulse Voltammetry, Square Wave Voltammetry. Electrochemical methods like Chrono-Amperometry, Chrono-Coulometry & Chrono-Potentiometry. The software upgradation should be free of cost

Rotating Ring Disc Electrode for Bipotentiostatic Hydrodynamic Measurements:

Specifications: Speed control Manual and software, Motor speed range 150 - 9,000 RPM, Manual speed setting 150 - 9,000 RPM RPM in 1 RPM steps, Acceleration/deceleration 3,800 RPM/s, Maximum current 450 mA, Two Sealed Hg pool contacts for Ring and Disc .RRDE Tips: GC Disc and Pt Ring 1no and 1no in optional item

Computer & Printer:

Compatible branded PC with i7, 16 GB RAM configuration, 27 inch 4K Monitor, Printer, 2 KVA Online UPS with one hour back up should be quoted.

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Computer & Printer:

Compatible branded PC with i7, 16 GB RAM configuration, 27 inch 4K Monitor, Printer, 2 KVA Online UPS with one hour back up should be quoted.



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<p>Warranty: 3 years from the date of installation of equipment.</p> <p>Optional:</p> <p>1. Any other relevant accessories such as RRDE Tips: GC Disc and Pt Ring should be quoted separately.</p>	<p>Warranty: 3 years from the date of installation of equipment.</p> <p>Optional:</p> <p>1. Any other relevant accessories such as RRDE Tips: GC Disc and Pt Ring should be quoted separately.</p>
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Note: The supplier must have 15 or more installations in reputed government Organisations.

The last date for receipt of tender has been extended upto **08/07/2019 till 2:00PM** which will be opened on the same date at **3:00PM** at INST, Mohali. The other details of the tender shall remain unchanged.

Sd/-
C.F.A.O