

ASSOCIATION FOR THE CULTIVATION OF SCIENCE
2A & 2B Raja S.C. Mullick Road, Jadavpur, Kolkata - 700032

Ref. No.- SMS/PK/19-20/73-1

DATE : 27-11-2019

CORRIGENDUM NOTICE No.- I

NIT No. - IACS/SMS/PK/2019-20/73 DATE : 13-11-2019

Based on the discussion in the pre-bid meeting held on November 25, 2019 at Room No. C-202, the technical committee modified few specifications of Electrochemical workstation as follows:

<i>Specifications for Electrochemical Workstation with Impedance Spectroscopy System with Multichannel Chassis</i>	
As Published	Modified
<i>No. of channels required: 1 and Possibility to add 1 or more channels in future for Bi-Potentiostat facility/ Multichannel Facility:</i>	<i>No. of channels required: 1 and Possibility to add 1 or more channels in future for Multichannel Facility in single chassis</i>
<i>Current Ranges: 9 Ranges, $\pm 10\text{nA}$ to $\pm 1\text{A}$</i>	<i>Current Ranges: $\pm 1\text{pA}$ to $\pm 1\text{A}$ or better</i>
- Low current: 1pA - Applied Current: $\pm 10\text{nA}$ to $\pm 500\text{mA}$ or more	<i>Should be removed</i>
<i>Voltage Resolution: $1\mu\text{V}$ or better</i>	<i>Voltage Resolution: $1\mu\text{V}$ or</i>
<i>Voltage Accuracy: $\pm 0.03\%$ of setting</i>	<i>Voltage and Current Accuracy: $\pm 0.03\%$ of setting or better (For entire range)</i>
<i>Current Accuracy: $\pm 0.03\%$ of setting</i>	<i>Should be removed</i>
<i>Acquisition speed/ Data Sampling: 1,000,000 samples/second or better</i>	<i>Acquisition speed/ Data Sampling: 50,000 samples/second or more</i>
<i>Frequency range: $10\mu\text{Hz}$-6MHz or more</i>	<i>Frequency range: $10\mu\text{Hz}$-5MHz or more</i>
<i>Bandwidth of electrometer: 8MHz or better</i>	<i>Bandwidth of electrometer: 5MHz or better</i>
<i>Input Impedance: $1\text{T}\Omega$</i>	<i>Input Impedance: $10^{13}\Omega$ or higher</i>
	<i>Scan rate: 200 V/Sec or Better with the step size of 1mV/Sec or better</i>
<i>Cell connection/Electrode Configuration: 2, 3, 4 or 5 Terminal Leads (+ ground)</i>	<i>Cell connection/Electrode Configuration: 2, 3, 4 Terminal Leads (+ ground)</i>
- Floating Mode: $10\text{M}\Omega$ to 10nF - Grounded Mode: $< 10\text{k}\Omega$ - Analog Filtering: low pass 4 poles sellen-key filters - 5Hz, 1kHz, and 50kHz - Auxiliary inputs/outputs: 2 Analog Inputs and 1 Analog Output, 2 Digital Inputs and 1 Digital Output to control external accessories like RRDE, Temperature Probe, Temperature and Humidity Chambers, etc.	- Floating Mode, Ground Mode and Analog filtering should be available - Auxiliary inputs/outputs: 2 Analog Inputs and 1 Analog Output,

(P-2)

Software's required	
	<i>EIS and Mott-Schottky fit, simulation and analysis software</i>
Accessories.	
<i>o Ag/AgCl reference electrode (Aqueous): 2 No. o Ag/AgCl reference electrode (Non-Aqueous): 1 No.</i>	<i>oDouble Junction Ag/AgCl reference electrode (Aqueous): 2 No. oDouble Junction Ag/AgCl reference electrode (Non-Aqueous): 1 No.</i>
WARRANTY – Three years.	WARRANTY – Two years and one year AMC

Acting Registrar