

S. No.	Generic name of the Instrument	Quantity	Key specifications
1.	Electrochemical Workstation (Potentiostat/ Galvanostat)	1	<p>Electrochemical Workstation with Potentiostat/ Galvanostat with Corrosion, Impedance, Electrochemistry s/w, and Latest Windows Based Acquisition s/w must include power supply 220V/50Hz, Interface Cable for Serial & USB Port, Cell Cable, Manuals & Installation.</p> <p>The System must Include the following techniques:</p> <p>General Techniques</p> <ul style="list-style-type: none"> ✓ Voltammetry (CV) with simulation/fitting program ✓ Linear Sweep Voltammetry (LSV) with stripping ✓ Bulk Electrolysis with Coulometry (BE) ✓ Chrono Amperometry (CA) ✓ Chrono Coulometry (CC) <p>Corrosion</p> <p>Tafel Plot (TAFEL), potentiodynamic deactivation, linear Polarisation</p> <p>Impedance</p> <p>AC Impedance (IMP)</p> <p>Impedance - Time (IMPT) (Mott-Schottky)</p> <p>Impedance -Potential (IMPE)</p> <p>Impedance simulator with fitting</p> <p>Open Circuit Potential- Time (OCPT)</p> <p>Battery Charge/Discharge</p> <ul style="list-style-type: none"> ✓ Galvanostatic Charge discharge single/multiple cycle -Chrono Potentiometry (CP) with potential limits, polarity by potential or time, no. of cycles etc. ✓ Voltage vs current density curve <p>Photovoltaic studies</p> <p>I-V measurements, I_{max}, P_{max}, Fill factor etc.</p> <p>Other Techniques:</p> <ul style="list-style-type: none"> * Chronopotentiometry with Current Ramp (CPCR) * Multi-Current Steps (ISTEP) * Potentiometer Stripping Analysis (PSA) ** Limited version of CV simulator * External Potential Input * Auxiliary Signal Measurement Channel <p>Licensed & Full version software for Corrosion, Impedance, Electrochemistry & all the techniques of instruments</p> <p>Software Features:</p> <p>32-bit Windows-based software</p> <p>Multi-document interface, dependence report and plot Digital simulation, user-defined mechanisms Data information, data listing equations</p> <p>knock, stir controls for mercury electrode Maximum data length: 128K-8192k selectable</p>
			Lifetime Free Upgradation of software
			<p>Additional requirements:</p> <p>4 Glass cells with Teflon cap and stand</p> <p>Corrosion cell - 2 nos.</p> <p>2 mm Platinum working Electrode -1 nos.</p> <p>3 mm Glassy Carbon Working Electrode -2 nos.</p> <p>Ag/AgCl Reference with vycor frit(aq)-1 nos.</p> <p>Ag/AgCl Reference with vycor frit (non aq)-1 nos.</p> <p>Platinum wire counter Electrode -1 nos.</p> <p>SCE calomel reference electrode -1 nos.</p> <p>Electrode Polishing Kit-1 no.</p>
		1	Computer latest version