

S. no.	Equipment's/Instruments name	Details/specifications	UNIT	MAKE	RATE
1.	Electrochemical workstation	MODEL NO. _____ Description: Electrochemical Workstation with Potentiostat/Galvanostat with Corrosion, Impedance, Electrochemistry S/W, and Latest Windows Based Acquisition, with area disable power supply. 220V/50Hz Interface Cables for Serial USB Port, Cell Cable, Manuals & Installation. The System includes the following techniques: General Techniques: • Cyclic Voltammetry (CV) with simulation/fitting • Programmable Voltammetry (LSV) with stripping • Linear Sweep Voltammetry (LSV) • Bulk Electrolysis with Coulometry (BE) • Chrono Amperometry (CA) • Chrono Coulometry (CC) Corrosion Techniques: • Tafel Plot (TAF), potentiodynamic • Determination, pitting corrosion, corrosion rate • Linear Polarisation, Corrosion current etc. Impedance Techniques: • AC Impedance (IMP) • Impedance – Time (IMPT) (Most-Schottky)	1		

		• Impedance – Potential (IMPE) • Impedance Simulator with fitting • AC Impedance Circuit Potential – Time (OCPT) AC Impedance cycles with Simulation: • Bode: log vs log (rad) • Bode: log vs log (Hz) • Bode: log vs Z vs freq • Bode: Y vs log f • Admittance: Y vs f • Warburg: Z' & Z'' vs 2ω-angular frequency • Z' vs Z'' • Z vs f • Cott phase vs ω Battery Charge/Discharge: • Galvanostatic Charge discharge programmable Cyclic-Chrono Potentiometry (CP) with potential limits, potential or time, no. of cycles etc. Photovoltaic studies. I-V measurements, I_{max}, P_{max}, Fill factor etc. Insitu spectroelectrochemical study (optional). Transmission mode for DII optics or IR drive. Reflection mode for UV-C electrodes & DII probe for coulometrically generated species. Other Techniques: • Chronopotentiometry with Current Ramp (CPR) • Multi-Current Steps (STEP) • Potentiometer Stripping Analysis (PSA) • Galvanostatic • I-V Conversion of CV simulator			
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		• IR Compensation • External Potential Input • Auxiliary Signal Measurement Channel • Model No.: i1 Curve • Description: • Amperometry / Cyclic Voltammetry (CV) with potential limits, potential steps, scan rate, curve cycles, pulse or current drive. • Photovoltaic studies. • I-V measurements, I_{max}, P_{max}, fill factor, etc. • Impedance electrochemical study (optional). • Transmission mode for DII optics or IR drive. • Reflection mode for UV-C electrodes & DII probe for coulometrically generated species. Description: Electrochemical Noise Measurement (ECN). Description: Licensed & full-version software for corrosion, impedance, electrochemistry, and all techniques of CHI660E. Includes software features such as: 32-bit Windows-based interface, open/save/delete/list/conversion/print files, run-time and parameter control, filtering, preprocessing, data protection and plotting. Graphical options, color and font selection, integration, semi-derivative and semi-integral, interpolation, baseline fitting & subtraction, data point modification, background subtraction, signal averaging, mathematical operations, Fourier spectrum, calibration curve, standard addition, data fit report, digital simulation, user-defined data listing, equations, clock, toolbar, status bar, current sensitive purge, keypad, context-sensitive menu, data length 128k–8192k selectable. Description			
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		Upgradation of software is free of cost for lifetime Model No.: CHXXX Description: • 4 Glass cells with Teflon cap and stand • 2 mm Platinum working electrode – 1 nos. • 3 mm Glassy Carbon Working Electrode – 1 nos. • Ag/AgCl Reference with vycor frit (aq) – 1 nos. • Ag/AgCl Reference with vycor frit (non-aq) – 1 nos. • Platinum wire counter electrode – 1 nos. • SCE calomel reference electrode – 1 nos. • Electrode Polishing Kit – 1 nos. Model No.: Computer Description: Computer Latest version (Locally supply) Make: CHI model 600E /upgraded version Or Biologic			
2	Battery/Supercapacitor Fabrication unit	Make: S.S.I. DESCRIPTION: 1. Vacuum Mixer 500mL Dual-Shaft Planetary Vacuum Mixer Machine (with a set of 500mL stainless steel jar) 2. Disc Cutter (Electrode Punching) with one set mold, for extra mold set USD89/set 3. Roll Press Machine (Roll Press) 100*200mm	01		

		4. Electric Coating Machine Coating size: 100x250mm 5. Electrolyte Injection Injection range: 0–50ml Display mode: digital 6. Sealing Machine (Hydraulic Sealing) Manual Coin Cells Crimping Machine (with a pc of crimping die) 7. 8 Channels Coin Cell Testing Board with Cable & Optional Connector 8. 5V 50mA 8 Channel Battery Tester for Coin cell (including software, middle machine, battery clamps, manual, CDROM, power plug and cables)	01 01 01 01 01 01 01		
3	Glove box	Two port customized glovebox (Includes all items to setup)	1		
4	Centrifuge Machine,	Centrifuge 10000-15000 rpm capacity 30-50 ml capacity tubes	01		

5	Magnetic Stirrer	Magnetic Stirrer with hot plate model NO. 2 MLH. Make:Remi Model: 2 MLH	04		
6	Ultrasonic Cleaner (Ultrasonicate)	Digital ultrasonic cleaner. Make:Labman Model: LMUC6D	01		
7	Digital weighing balance	Analytical balance KAB5L-220g/0.1mg Make: Wesner Model: KAB5l	01		
8	Muffle Furnace	Muffle Furnace- Muffle size: 9X9X18 Or SMFF -1S/G Size 9*4*4 Make: NAVYUG Working temp up to 1150-degree Celsius V-230 AC single phase 50 Hz	01		
9	Hot air Oven	Hot air Oven 24X24X36 Make: NAVYUG V-230 AC single phase 50 Hz	01		
10	Tubular Furnace	• Temperature 1300-degree celcius • Vacuum pump Ans accessories for tube furnace, direct drive rotary high vacuum pump – PVD2-100, Promlvac. • Empty metal cylinder for gases (Nitrogen, Argon and Oxygen)- standard size for institutions. Stainless steel regular and fitting (for 3 numbers cylinders)	01		
11	Vacuum Oven	**Digital Vacuum Oven 12X12-40 litre	01		

VEDANTA POSTGRADUATE GIRLS' COLLEGE

(A UNIT OF VEDANTA SHIKSHA EVAM SHODH SANSTHAN, RINGUS)
Reengus (Sikar) -332404

		Make: NAVYUG ** additional- Vaccum pump TID-15			
'12.	5 Star single door Refrigerator	Make: LG Model no; GL-D201ABPU	01		
13	Smart Classroom	Interactive panel			
				TOTAL	
				GST 18%	
				TOTAL	