

Sealed Quotation (Technical & Commercial, separately) must reach to us till 07.10.2015 before 5.00PM and should be sent to Prof. Kamal K. Kar, Department of Mechanical Engineering, Room # ACMS 203D, IIT-Kanpur, 208016 against the enquiry letter numbered ME /KKK/04/2015-16 Dated: September 28, 2015.

Dear Sir/Madam:

Quotations (Technical & Commercial, separately) are invited for purchase of "Electrochemical Test Station having four channel" having following specifications:

### Specifications:

Channel Number	Description
Channel 1	<p>Electrochemical Workstation with Potentiostat/ Galvanostat with Corrosion, Impedance, Electrochemistry s/w, and Latest Windows Based Acquisition s/w also includes power supply 220V/50Hz, Interface Cable for Serial &amp; USB Port, Cell Cable, Manuals&amp; Installation.</p> <ul style="list-style-type: none"> <li>• Cyclic Voltammetry (CV)</li> <li>• Linear Sweep Voltammetry (LSV) with stripping</li> <li>• Tafel Plot (TAFEL), potentiodynamic deactivation, pitting corrosion, corrosion rate, linear Polarisation, Corrosion current etc., Linear Polarisation</li> <li>• ChronoAmperometry (CA)</li> <li>• ChronoCoulometry (CC)</li> <li>• Bulk Electrolysis with Coulometry (BE)</li> <li>• AC Impedance (IMP)</li> <li>• Impedance – Time (IMPT)</li> <li>• Impedance – Potential (IMPE)</li> <li>• Chronopotentiometry (CP)</li> <li>• Chronopotentiometry with Current Ramp (CPCR)</li> <li>• Multi-Current Steps (ISTEP)</li> <li>• Potentiometer Stripping Analysis (PSA)</li> <li>• Open Circuit Potential – Time (OCPT)</li> <li>• Galvanostat</li> <li>• Limited version of CV simulator</li> <li>• Impedance Simulator</li> <li>• IR Compensation</li> <li>• External Potential Input</li> <li>• Auxiliary Signal Measurement Channel</li> <li>• AC Impedance Plots               <ul style="list-style-type: none"> <li>Bode : <math>\log Z</math> vs <math>\log(\text{freq})</math></li> <li>Bode : <math>\text{Phase}</math>, vs <math>\log(\text{freq})</math></li> <li>Bode : <math>\log Z''</math> &amp; <math>Z'</math> vs <math>\log(\text{freq})</math></li> <li>Bode : <math>\log Y</math> vs <math>\log(\text{freq})</math></li> <li>Nyquist ; <math>Z''</math> vs <math>Z'</math></li> <li>Admittance; <math>Y''</math> vs <math>Y'</math></li> <li>Warburg: <math>Z''</math> &amp; <math>Z'</math> vs <math>w^{1/2}</math> w-angular frequency</li> <li><math>Z'</math> vs <math>w Z''</math></li> <li><math>Z'</math> vs <math>Z''/w</math></li> <li>Cot (phase) vs <math>w^{1/2}</math></li> </ul> </li> </ul>
Channel 2	<p>Electrochemical Analyzer with Electrochemistry s/w, Latest Windows Based Acquisition s/w also includes power supply 220V/50Hz, Interface Cable for Serial &amp; USB Port, Cell Cable, Manuals&amp; Installation.</p> <ul style="list-style-type: none"> <li>• Cyclic Voltammetry (CV)</li> <li>• Linear Sweep Voltammetry (LSV) with stripping</li> <li>• Differential Pulse Voltammetry (DPV ) with stripping</li> <li>• Normal Pulse Voltammetry (NPV) with stripping</li> <li>• Open Circuit Potential – Time (OCPT)</li> <li>• Limited version of CV simulator</li> <li>• IR Compensation</li> <li>• External Potential Input</li> <li>• Auxiliary Signal Measurement Channel</li> </ul>

	<ul style="list-style-type: none"> <li>• Chronopotentiometry (CP)</li> <li>• Chronopotentiometry with Current Ramp (CPCR)</li> <li>• Multi-Current Steps (ISTEP)</li> </ul>
Channel 3	<p>Electrochemical Analyzer with Electrochemistry s/w, Latest Windows Based Acquisition s/w also includes power supply 220V/50Hz, Interface Cable for Serial &amp; USB Port, Cell Cable, Manuals&amp; Installation.</p> <ul style="list-style-type: none"> <li>• Cyclic Voltammetry (CV)</li> <li>• Linear Sweep Voltammetry (LSV) with stripping</li> <li>• Differential Pulse Voltammetry (DPV ) with stripping</li> <li>• Normal Pulse Voltammetry (NPV) with stripping</li> <li>• Open Circuit Potential – Time (OCPT)</li> <li>• Limited version of CV simulator</li> <li>• IR Compensation</li> <li>• External Potential Input</li> <li>• Auxiliary Signal Measurement Channel</li> <li>• Chronopotentiometry (CP)</li> <li>• Chronopotentiometry with Current Ramp (CPCR)</li> <li>• Multi-Current Steps (ISTEP)</li> </ul>
Channel 4	<p>Electrochemical Analyzer with Electrochemistry s/w, Latest Windows Based Acquisition s/w also includes power supply 220V/50Hz, Interface Cable for Serial &amp; USB Port, Cell Cable, Manuals&amp; Installation.</p> <ul style="list-style-type: none"> <li>• Cyclic Voltammetry (CV)</li> <li>• Linear Sweep Voltammetry (LSV) with stripping</li> <li>• Differential Pulse Voltammetry (DPV ) with stripping</li> <li>• Normal Pulse Voltammetry (NPV) with stripping</li> <li>• Open Circuit Potential – Time (OCPT)</li> <li>• Limited version of CV simulator</li> <li>• IR Compensation</li> <li>• External Potential Input</li> <li>• Auxiliary Signal Measurement Channel</li> <li>• Chronopotentiometry (CP)</li> <li>• Chronopotentiometry with Current Ramp (CPCR)</li> <li>• Multi-Current Steps (ISTEP)</li> </ul>
5	Platinum gauze counter electrode
6	Platinum wire counter electrodes
7	Calomel (SCE) reference electrodes
8	RE-1B Reference Electrode Ag/AgCl

**Conditions (should be strictly followed):**

1. Prices should be FOB (your international airport), CIP New Delhi, and IIT-Kanpur including Packing and Forwarding, Insurance and freight.
2. Validity of quotation should be at least for 90 days.
3. Maximum educational discount
4. Any other charges, if applicable.
5. User list of this valve (please give complete address, including cell number, email address)
6. Proprietary certificate, if any
7. Authorization letter from your principal
8. Agency commission, if any
9. Printed technical literatures as per your specifications (Xerox copy will not be accepted)
10. Any website for this product

You will be informed accordingly by appropriate authorities if your bid is accepted. Please do not make unnecessary and unsolicited phone calls and emails (except to seek a clarification for the tender), you will be contacted as per need.

Kindly mention **ME/KKK/04/2015-16 Dated: September 28, 2015** on sealed envelope carrying quotation and printed literature and send your best offer (Technical & Commercial, separately) so as to reach us on or before October 07, 2015 to the following address-

Prof. Kamal K. Kar,  
Department of Mechanical Engineering  
Room # 203 ACMS  
IIT Kanpur - 208016 India

Email: [kamalkk@iitk.ac.in](mailto:kamalkk@iitk.ac.in)