**Faculty**: Kothandaraman Ramanujam, Department of Chemistry, IIT Madras

I require quote for single channel electrochemical workstation from the following companies,

**Hardware specifications for single channel Electrochemical Workstation**

Compliance Voltage: +/-15V or more

Applied voltage: +/-15 V or more

Voltage accuracy: 0.1% or better

Current range: 10nA or less & 1A or more – minimum 5 ranges should be provided

Current accuracy: 0.1% of the range or better

Current resolution: 0.007% or better

Scan rate: 200V/Sec or better

Impedance Frequency range from 10 μHz to 5 MHz or better

Amplitude: 10 micro V to 5 Volt or better

Bias current: 50pA

Computer interface: USB/Ethernet

Additional voltage recording input ( ADC ) for 0-10V range. Input received in this channel should be scalable and interpretable to control the software measurement protocols. (e-g: recording optical sensor info, LED light source info etc..)

**Software requirements:**

* Voltammetry techniques- CV, LSV, Staicase Voltammetry
* Pulse: DPV, SWV,Stripping voltammetry, Chrono amperometry , Chronopotentiosmetry
* Corrosion: Potentiostatic/Gavanostatic-Gavanodynamic, Tafel
* Energy: charge/discharge Constant potential, GITT, PITT, Constant current, constant power
* Complete analysis software for CV
* EIS circuit fitting facility and software

**Warranty**

5 years