Sr. #	Description/Specifications/Cat/Part No	Qty Required
1	**Cyclic Voltâmetery Workstation (Potentiostat / Galvanostat) having following specs:** **1. Potentiostat** • Potential control range: ± 10V • Current control range: ± 2A • Potential control accuracy : 0.1% × full range ± 1mV • Current control accuracy : 0.1% × full range • Potential resolution : 10μV (>100Hz), 3μV (<10Hz) • Current sensitivity : 1pA • Rise time : <1μS (<10mA), <10μS (<2A) • Reference electrode input impedance : $10^{12}\Omega\|20pF$ • Current range : 2nA~2A, 10 ranges • Compliance voltage : ±21V • Maximum current output : 2.0A • CV and LSV scan rate : 0.001mV~10,000V/s • CA and CC pulse width : 0.0001~ 65,000s • Current increment during scan : 1mA @ 1A/ms • Potential increment during scan : 0.076mV @ 1V/ms • SWV frequency : 0.001~100 kHz • DPV and NPV pulse width : 0.0001~1000s • AD data acquisition : 16bit@1 MHz,20bit@1 kHz • DA Resolution : 16bit, setup time : 1μs • Minimum potential increment in CV : 0.075mV • IMP frequency : 10μHz~1MHz • Low-pass filters: Covering 8-decade • Potential and current range: Automatic **2. Electrochemical impedance signal generator** • Frequency range : 10μHz – 1MHz • AC amplitude : 1mV ~ 2500mV • DC Bias : -10 ~ +10V • Output impedance : 50Ω • Waveform: sine wave, triangular wave and square wave • Wave distortion : <1% • Scanning mode :Logarithmic /linear, increase/decrease **3. Signal analyzer** • Integral time : minimum : 10ms or the longest time of a cycle • Maximum : 10^6 cycles or 10^5s • Measurement delay : 0 ~ 10^5s • DC offset compensation • Potential automatic compensation range:-10V ~ +10V • Current compensation range : -1A ~ +1A • Bandwidth : 8-decade frequency range, Automatic and manual setting • Operating Power: 200-220 VAC, 50/60 Hz **4. Desktop computer and Software requirement** • Communications Interface: isolated Universal Serial B us (USB 2.0 or later) • Accessories: Desktop Computer Core i7 7th-Gen with DVD R/W and Windows 10 OS • GPIB interface and related data acquisition software of the instrument. • Data Processing and analysis software **5. After sale service: 02 years** **6. Extended warranty of 03 years.**	01