

Dear Sir,

Kindly send a quote for the following item on CIP Bangalore basis. Your quotation should clearly indicate the terms of delivery, delivery schedule, payment terms etc. The tender should be submitted in two separate sealed envelopes - one containing the technical bid and the other containing the commercial bid, both of which should reach us, duly signed on or before 1700 hours, 21st July 2017 to

**The Chairman
Department of Physics,
Indian Institute of Science, Bangalore 560012**

Please enclose a compliance statement along with the technical bid.

Yours Sincerely,

Prof. P.S. Anil Kumar
Dept. of Physics
Indian Institute of Science

Electrochemical System – specifications

Potentiostat cum Galvanostat with RRDE set up and controller

- DC polarization Potential range: ± 12 V or better
 Current range: ± 2 Amp
 Resolution: 1 μ V and 1 pA
- Possibility to use 2- or 3- or 4-electrode systems (floating configuration – isolated from ground)
- Compliance voltage: ± 15 V or better
- Rise time should be less than microsec.
- IR compensation – automatic and manual
- Analog output should also be possible
- Simulation of data based on all voltammetric techniques
- Impedance equivalent circuit analysis
- Maximum data points – should be particularly used in tens of thousands of cycles in supercapacitors
- Full scale range: ~ 100 nA to 2 amp
- Reference electrode input impedance should be very high and capacitance should low
- Techniques: Cyclic, linear sweep voltammetry; chrono- techniques (coulometry / potentiometry and amperometry); Pulse techniques (Differential pulse, normal pulse and square wave pulse); i-t measurement etc.
- All the available electro-chemical techniques in the literature should be possible.
- Frequency response analyzer / impedance:

Frequency range, μ Hz to MHz range
Amplitude: few mV to V rms

- High current booster / Low current amplifier may be quoted as an accessory.
- Other available accessories may be quoted separately.

Terms and conditions:

1. The vendor should have a track record of having previously supplied similar equipment in India (please furnish the details).
2. The vendor should have qualified technical service personnel for the equipment.
3. The payment will be through confirmed irrevocable Letter of Credit.
4. The lead time for the delivery of the equipment should not be more than two months from the date of receipt of our purchase order.
5. The instrument must carry a comprehensive warranty of 3 years from the date of installation.