

Our Ref: ERO Lab/Pur/Chem/05-06

Dated: 23.04.07

To

Subject: - Tender for Supply of Electrochemical Analyzer along with Platinum Electrode & One pair of additional Platinum Electrode

Dear Sirs,

Tender are invited for the supply of the above items in the separate SEALED COVER super scribed “**Quotation for the supply of Electrochemical Analyzer_along with Platinum Electrode ”** and “**Quotation for the supply of One pair of Platinum Electrode”**, which should reach the undersigned latest by 15th May’ 07.

Send separate quotation for the Electrochemical Analyzer and the Electrode. The tenders shall be opened at 11.00 hours on the next working day in the presence of such manufacturers/ suppliers of the equipment or their duly authorized, who may like to attend.

All equipment shall be supplied along with warranty/guaranty certificate, incase possible.

- 1. Terms and conditions are given in Annexure-A**
 - 2. The detailed Technical specification of equipments/item is given in Annexure-B**
 - 3. Annexure C as enclosed may also be signed & sent back along with the Quotation.**
- Payment shall be released only after verifying satisfactory performance of the equipments.**

Thanking you

Yours faithfully

GOVIND ROY
Sc. ‘E’ (Director)

Encl. As Above

ANNEXURE-A

1. The BUREAU gives FIRST PREFERENCE in its purchase to goods bearing ISI CERTIFICATION MARK and second preference to those which conform to the relevant Indian Standard Specifications.
2. The delivery of the equipment shall preferably be made within 30 days of receipt of order. If, however, it is not possible to affect delivery during working hours by the date, the date by which the delivery of the equipment can be effected/guaranteed may be so stated.
3. The rates quoted should give break up of Cost, Excise Duty/ Sales Tax/VAT, P&F charges, Freight, Insurance etc (as applicable). If the rates quoted do not include sales tax/excise duty/ or any other taxes/charges, the same should be specifically stated.
4. Tenders qualified by such value and indefinite expressions as “Subject to immediate acceptance”, “Subject to prior sale” etc., and incomplete quotation are liable to be summarily rejected.
5. All Tenders shall remain open for a period of 90 days from the date of opening.
6. Please note that Tenderer shall have to **deposit 3% of cost of equipment as EMD for bid security**. The amount is to be deposited along with the tenders, in the form of **demand draft** drawn in favor of BUREAU OF INDIAN STANDARDS payable at Kolkata. Bid security as deposited with tender shall be returned to the unsuccessful bidder after the decision is made for purchase.
7. Tenderer getting the order shall preferably deposit 10% of the ordered amount as contract **PERFORMANCE SECURITY** from any nationalized Bank valid till 60 days after warranty /guarantee period, which shall be returned after satisfactory performance .However ,other terms of payment such as cited at clause 10 may also be considered.
8. 90% payment may be made after satisfactory installation & commissioning of the equipment and **10% (contract performance security)** after expiry of guarantee/warranty period. The equipment should have a **guarantee/ warranty period of preferably 3 years & the period shall be mentioned by the Tenderer while submitting quotation.**
9. The Tenders/Suppliers of the equipment shall preferably have necessary infrastructure /capacity to provide a **comprehensive maintenance guarantee, preferably for three years** including replacement of spares, if any. Position shall be clarified in this aspect while submitting quotation.

10. The supplier/Manufacturer of the equipment shall ensure **training of officials** of the laboratory during commissioning of equipment.
11. All goods shall be received subject to approval on inspection. The decision of our Inspecting Officers shall be binding. Rejected items/goods/stores shall be removed by the supplier at his own cost and risk, within 30 days of receipt of notice for the removal of such goods, and thereafter no liability, whatsoever, on the Bureau shall be attached for the rejected/disapproved goods/items/stores.
12. The Bureau reserves the right to accept or reject summarily any or all tenders in whole or part without assigning any reason whatsoever.
13. The Bureau takes no responsibility for delay, loss or non-receipt of tenders after dispatch.
14. In case of non-compliance with the contract, the Bureau reserves its right to:
 - a) Cancel/rescind/revoke the order if supply is not made in time and is not Conforming to the required specification.
 - b) Impose penalty up to 1% of the total value of the order for a delay of every seven days after the schedule date subject to the ceiling of a maximum of 10% of the total value of the order.
15. All question, disputes or difference arising under, out of or in connection with this tender enquiry shall be subject to the exclusive jurisdiction of the Kolkata Courts

Annexure-B

Technical Specification for Electrochemical Analyzer & One pair of additional Platinum Electrode

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|---------------------------------------|---|
| 1. Name of the Equipment: | Electrochemical Analyzer for Determination of 'Cu' & 'Pb' in Copper and Aluminum Alloy |
| 2. Description: | The cabinet should be made of rust proof / laminated Particle Board, termite proof, vibration resistant |
| 3. Dual range digital ammeter: | Range: 0.0 to 10.0amp and 0.0 to 1.0amp
Least count: 0.2 Amp and 0.02Amp or better with variable current controller |
| 4. Digital voltmeter: | Range: 0.0 to 10.0 volt
Least count: 0.5 volt or better |
| 5. Digital Timer: | Setting time up to 24 hrs with resolution of 1 minute .
Provision for hooter / buzzer indicating completion of set time |
| 6. Glass Stirrer : | Shall be in the middle of electrode terminals |
| 7 Stirrer motor: | Noiseless, DC drive motor, maintenance free
variable speed control from 50 to 250 rpm |
| 8. Electrode terminals: | They should be 40mm apart (center to center) shall have control for reversibility of electrodes |
| 9. Circular heater: | should be fixed below stainless steel plate (100 mm diameter) for putting beaker. Distance between terminal of electrode and the top of heater plate should be adjustable with in 120 to 150 mm. Arrangement for lateral movement of plate. |
| 10. Temperature control: | A digital temperature controller cum indicator for heater plate should be provided. |

11. Platinum electrode:**Platinum electrode (pure) or 10% alloy with Iridium**

2 Pairs Universal type so that it can be fitted with any make Electrochemical Analyzer

Dimension given below is as a Guide only

Criteria	Outer Electrode	Inner Electrode
Height overall	125 mm	140 mm
Height of cylinder	045 mm	032 mm
Diameter of cylinder	045 mm	032 mm
Approximate weight	034 grams.	019 gram
Approximate surface area	125 cm sq.	070 cm sq.

NOTE The instrument supplier and electrode supplier may be different. It may therefore be required to send quotation separately for the instrument along with platinum electrode and platinum electrode.

ANNEXURE-C

DEVIATION STATEMENT FORM

The following are the particulars of deviations from the requirements of the tender document and specifications:

CLAUSE	DEVIATION	REMARKS (INCLUDING JUSTIFICATION)

PLACE:

DATE:

NOTE:

1Where there is no deviation; the statement should be returned duly signed an endorsement indicating “No deviations”

