



IISER Mohali

भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान मोहाली

मानव संसाधन विकास मंत्रालय, भारत सरकार द्वारा स्थापित
सैक्टर 81, नॉलेज सिटी, पी. ओ. मनोली, एस. ए. एस. नगर, मोहाली, पंजाब –140306
INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH MOHALI
Sector-81, Knowledge city, PO-Manauli, SAS Nagar Mohali-140306, Punjab
PAN NO. - AAAAI1781K TAN NO. PTLI10692D

• Phone : +91-172-2240086,2240121 • Fax : +91-172-2240124, 2240266 • <http://www.iisermohali.ac.in> • Email: stores@iisermohali.ac.in

CPPP/Institute Website/Newspaper

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04th August 2016

TENDER NOTICE

On the behalf of Director, IISER-Mohali, sealed tenders in **TWO BID SYSTEM** { Technical and Commercial separate, (i) Technical bid envelope containing- Technical write-up, EMD and tender fee (ii) Commercial bid envelope containing price detail. Technical and commercial bid should be sealed in separate covers duly superscribed and both these sealed covers are to be put in a bigger cover which should also be sealed and duly superscribed } are invited, for purchase of following item along with EMD money by DD /Banker Cheque/FDR/ Bank guarantee for Rs 50,000/- and tender fee of Rs 500/-(non-refundable) through DD in favour of the Registrar, IISER Mohali, payable at Mohali/Chandigarh so as to reach us latest by **25th August 2016** before 1 pm and will be opened on the same day at 4pm.

Sr.	Description	Qty
01	Electrochemical Workstation with in-situ Optical studies	01

Technical Specifications for Electrochemical Workstation with in-situ optical studies

Quantity: 1, if not mentioned

Sr.	Features	Required specifications
01.	Bi Potentiostat-Galvanostat	Should have options to perform Corrosion, Impedance, Voltammetry , Electrochemical stripping, Bulk Electrolysis with Coulometry, Trace Metal analysis & Pulse Techniques, Corrosion tafel, fuel cell, AC Impedance including Mott Scottky, Battery Charge/Discharge, Deposition Studies, Photovoltaic studies, Insitu spectroelectrochemical study, RDE/RRDE with Hydrodynamic Modulation Voltammetry (HVM) change in voltage w.r.t. ramp of the motor, RDE control and chrono – techniques Potential scan range: ± 10 V \pm 0.02% for both channels Measured current range: ± 20 pA to 250 mA \pm 0.0015 %, steps of 0.3fA Compliance Voltage: ± 13 V or better Input bias current: < 20 pA Scan rate with high speed generator 8000 V /s Impedance range 10uHz to 1MHz with simulation CV simulation programs Fast data acquisition : 1us sampling Electrochemistry software for above mentioned techniques, Latest Windows Based Acquisition software also includes power supply 220V/50Hz, Interface Cable for USB Port, Cell Cable

		Any available software upgradation in ten years has to be done at free of cost.
02.	Rotating Ring Disc Electrode (RRDE) system for Reaction Kinetics Studies (quantity is mentioned in bracket) (prices may be quoted separately)	Rotating Disk system and Electrodes RRDE Rotating Ring Disk Electrode Apparatus with motor shaft power supply and cell with spare inner tubings RDE Pt Platinum disk electrode (2) RDE GC Glassy carbon electrode (4) RRDE Pt.Ring/ Pt Disk Electrode (1) RRDE Pt.Ring/ GC Disk Electrode (2)
03.	Cells and Electrodes (quantity mentioned in bracket) (prices may be quoted separately)	Electrochemical Cell System includes 4 glass cells with one Cell top (1) Pt Working Electrode (3) GC Working Electrode (6) Iridium working electrode (1) Cobalt working electrode (1) Cu working electrode (2) Reference electrode (Ag/AgCl) (3) Non Aqueous reference electrode (Ag/Ag+) (3) Calomel Reference Electrode (3) Pt Wire Counter Electrode (3) Electrode Polishing Kit (2) Polishing Pad (2) Thermojacketed cell (1) Hg/HgSO ₄ reference electrode (2) Hg/HgO ref electrode (2) Reversible H ₂ std. electrode (2) Pt flag counter electrode (3) Au Working electrode (3) Ag Working electrode (1)
04.	Spectrometer	Spectrometer 3648 elements for general lab use (fluorescence, emission, absorbance, transmission, and reflectance) with collection lens is preset to cover the 250-1000 nm wavelength range a multi-bandpass order-sorting coating: and a 25 um entrance slit. Acquisition software.
05.	Light source for spectrometer	Combination Deuterium and Tungsten-Halogen Light source with 1,000-hour deuterium bulb and 900-hour tungsten-halogen bulb suitable for absorption and reflection
06.	In situ spectroscopy– Transmission mode	To monitor the online spectral changes at the surface such as polymerization Spectroelectrochemical cell 10mm path with Ag/AgCl reference, Pt counter and W.E. ITO and Pt or Au grid electrode In situ spectroscopy– Transmission mode includes 2 QP 200-2 UV VIS optical fiber, 1cm cuvette sample holder, 1cm Cell with taflon cap 50 no.s of ITO Plates 7mm x 1.5mm x 50mm height
07.	Spectrochemical Option – Dip mode	Dip probe option with 10 mm path length probe for the samples direct from test chambers where absorption of solutions are less than 1.5 10 mm Probe tips (qty: 2 no.s)
08.	In situ Reflection hardware (optional: may be quoted separately)	In situ Reflection hardware with necessary probes for measuring reflectance from the opaque electrodes
09.	Photoelectrochemical Reactors (prices may be quoted separately)	Type 1: Cell with quartz top and 3 quartz joint 14, 10, 10 mm female socket, temp control circulation provision in outer jacket Equivalent glass parts should be optionally quoted Type 2: 20 mm quartz inlet with ITO plate working, reference and

		counter electrode, provision for purging. All std joint airtight configurations. Provision for GC sampling Type 3: Suitable quartz and glass cell should be quoted separately and optionally for inserting the probe from <i>item 10</i> . This is not required if type 1 and type 2 reactors suffices. The cell should be airtight after insertion of the probe.
10.	Non-invasive Oxygen Monitoring Kit with Patches (prices for Item 10 may be quoted separately and optionally at the end of the main quote)	Non-invasive oxygen measurement should be possible. The standard probe should be usable for measuring oxygen (in Tau, %, ppm, Pa) in aqueous and gas phase. Probe should be complete with LED and detector. Measurements should be fluorescent based. Additional probe should be quoted separately for use in non-aqueous media. Additional probe should also be quoted separately for estimating trace amount of oxygen in gas and liquids. All accessories associated with the above mentioned parts, such as joints should be quoted. Any probe with a sharp tip (or a tip assembly that can be connected to the above mentioned probes) should be quoted.
11.	Computer & Printer	Pentium i7 computer with 21'' or larger monitors, present configuration, B/W back to back Printer with book scanner. Online UPS for 0.5 hour or more power backup. A suitable laptop should be provided for the oxygen monitoring kit.
12.	Warranty	3 Years on the software and the hardware of the Instrument
13.	Installation and commissioning	The manufacturer should undertake to install and commission the equipment and all attachments accessories and also demonstrate the performance guaranteed as per specifications at site. Onsite training should be provided for 2 days or more. One set of manuals (hard and soft copies) with all details of parts should be supplied. Any other accessory required for smooth installation and working of the instrument should be quoted.

INSTRUCTIONS

1. The Quotation should be addressed to the Assistant Registrar (S&P), IISER Mohali should on the top of the envelope invariably give Reference number with due date and time of submission of quotation. Quotation should be submitted directly by the original manufacturer/supplier, If quotation is submitted by any representative/agent/dealer then they must have to produce a authority certificate of principal party for quoting the price otherwise it will be very difficult at this end to consider such quotation.
2. One time importers from China with custom made specifications are highly discouraged.
3. The quantity mentioned in this inquiry is and shall be deemed to be only approximate and will not in any manner be binding on the Institute. Before the deadline for submission of the bid, IISER Mohali reserves the right to modify the bidding document and to extend or not to extend the date of submission. Such amendment/modification will be notified to bidders receiving the bidding document in writing or fax/ email and will also be hosted on IISER Mohali website.
4. The rates offered should be FOR Chandigarh/Mohali in case of firms situated outside Chandigarh/Mohali, and free delivery at the Institute premises in case of local firms. Supplier from outside India should mention the **Ex-works/FOB/FCA/CIF/CIP** price clearly. Conditional tenders will be summarily rejected

5. In case of Ex-godown terms the amount of packaging forwarding freight etc should clearly be indicated by percentage or lump sum amount. Institute has policy **not to make any advance payments** towards any purchase, Letter of credit can be opened if required.
6. THE INSTITUTE IS EXEMPTED FROM EXCISE AND CUSTOM DUTY under notification no-51/96 –CUSTOM DATED 23/7/1996 AND DSIR REGISTRATION NO TU/V/RG/-CDE(1062)/2011 DT. 02/09/2011 / EXCISE NOTIFICATION NO. 10/97- CENTRAL EXCISE DT. 01.03.1997
7. TAX: - This Institute is not exempted from the payment of Sales Tax/Service Tax/VAT. The current rate (i.e. percentage of Sales Tax should be clearly indicated included or excluded) wherever chargeable. Please also provide the copy of PAN card, TIN number, Service tax number, Sales tax number duly self-attested.
8. The delivery period should be specifically stated. Earlier delivery will be preferred
9. The firms are requested to give detailed description and specifications together with the detailed drawings, printed leaflets and literature of the article quoted. The name of the manufactures and country of manufacture should also invariably be stated. In the absence of these particulars, the quotation is liable for rejection.
10. Validity of offer: 90 days. The warranty period after satisfactory installation should be mentioned and firm should replace all manufacturing defect parts/ whole item under warranty without any extra cost including clearance, freight, taxes. Security deposit/ Bank Performance Guarantee for 10 % of the value of supply order as per norms may be sought from firms.
11. Late or delayed quotation will not be accepted.
12. The right to reject all or any of the quotation and to split up the requirements or relax any or all the above conditions without assigning any reason is reserved. For any corrigendum and addendum our website may please be checked regularly.
13. Disputes, if any, shall be subject to jurisdiction in the court of Mohali only.

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(Mukesh Kumar)
Assistant Registrar (S&P)