

NOTICE INVITING TENDER (E-Procurement mode)

भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान पुणे

INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH

An Autonomous Institution, Ministry of Human Resource Development, Govt. of India

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Website: www.iiserpune.ac.in

Tender No: IISER/PUR/0986/17

Date: 09/03/2018

Indian Institute of Science Education and Research, Pune invites online bid (e-tender) in single bid system for the following.

Item Description: - Procurement of Electrical Conductivity Measurement Setup with light Source- 1 Qty.

The Tender Document can be downloaded from Central Public Procurement (CPP) Portal <https://eprocure.gov.in/eprocure/app> and bid is to be submitted **online only** through the E-procurement portal up to the last date and time of submission of tender.

Critical Dates of Tender

Sr.No	Particulars	Date	Time
1	Date of Online Publication/Download of Tender	09/03/2018	17:30 Hrs.
2	Bid Submission Start Date	09/03/2018	17:45 Hrs.
4	Bid Submission Close Date	21/03/2018	15:00 Hrs.
6	Opening of Bids	23/03/2018	15:30 Hrs.

No manual bids will be accepted. All quotation should be submitted in the E-procurement portal only

Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk. The contact number for the helpdesk is 0120-4200462, 0120-4001002, 91-8826246593.

I N D E X

Chapter No.	Page No
CHAPTER 1 : INVITATION FOR BIDS	3
CHAPTER 2 : INSTRUCTIONS TO BIDDERS	7
CHAPTER 3 : CONDITIONS OF CONTRACT	10
CHAPTER 4 : SCHEDULE OF REQUIREMENTS, SPECIFICATIONS AND ALLIED TECHNICAL DETAILS	12
CHAPTER 5 : PRICE SCHEDULE	13
CHAPTER 6 : CHECKLIST	17

CHAPTER-1. INVITATION FOR BIDS

1. Indian Institute of Science Education and Research, Pune invites online bids (e-tender) in single bids systems for Procurement of Electrical Conductivity Measurement Setup with light Source. The Technical specifications are given in Chapter 4: Schedule of Specifications.

2. **Contact for information:**

Technical & Commercial contact:
Assistant Registrar (Stores & Purchase)
Indian Institute of Science Education and Research (IISER), Pune
Dr. Homi Bhabha Road, Pashan
Pune - 411 008, India
Tel : +91-020-2590 8246
Email: purchase@iiserpune.ac.in
Website : www.iiserpune.ac.in

3. Supply means: “Supply, Installation & Commissioning”.

4. **Submission of Bids:**

Bid Submission Start Date: 09/03/2018 from 17:45 Hrs.
Bid Submission Close Date: 21/03/2018 up to 15:00 Hrs.
Opening of Bids: 23/03/2018 at 15:30 Hrs.

5. No manual bids will be accepted. All quotation should be submitted in the E-procurement portal only

6. The Offer should comprise of the following:

- (i) The offer should be complete to indicate that all products and services asked for are quoted.
- (ii) The purpose of certain specific conditions is to get or procure best Equipment/service etc. for IISER, Pune. The decision of Purchase Committee shall be the guiding factor for selection of the responsive firms.
- (iii) Duly filled in Bid with proper seal and signature on each page of the bid should be submitted online and the same should accompany with complete specifications, Manufacturer’s name, address and relevant Technical Literature / Brochures with warranty Terms.

- (iv) Agreements / Purchase Orders / Completion certificates if any, for similar works in other Institutes, the details of such supplies for the preceding three years should be given together with the prices eventually or finally paid.
- (v) Copy of GST No. and PAN No. allotted by the concerned authorities. If registered with the National Small Industries Corporation, the registration number, purpose of registration and the validity period of registration and a copy of DGS&D registration wherever it is applicable should also be provided in bid.
- (vi) The prices should be shown against each item for the purpose of Insurance claims / replacements if any.
- (vii) Compliance sheet with any deviation with reference to the terms and specifications.
- (viii) The item should be supplied with manuals and the manuals including technical drawings should be complete in all respects to operate without any problem.
- (ix) Duly filled in checklist as per Chapter 6 should be submitted along with tender.
- (x) The Bidders are requested to quote for Educational Institutional Price for Equipments, since we are eligible for the same

Note : IISER , Pune is requesting only Single Bid (Technical Specification and Price together) the Bidders must be extremely careful about the requirement mentioned in the tender and submit their quotes accordingly. Any shortfalls found during the tender evaluation such bids will be rejected without seeking any further clarifications from the bidders. Since it is a single bid any further clarification will cause/draw objections from other bidders.

All the bidders should quote their offer as per “Chapter - 5 Price Schedule” for uniformity.

7. Purchase Committee

The Purchase Committee will evaluate the tenders and may also nominate some external/expert members, in the interest of IISER, Pune.

8. Terms of the Purchase Committee

- (i) A committee duly constituted by the Director, IISER, Pune will go through the bids and recommend firms that are meeting all the

specifications of the Tender. The recommendation/decision of the purchase committee is the final and binding on all the parties.

- (ii) Purchase Committee will proceed through Bids as defined in **Chapter IV (Schedule of requirements, specifications and allied technical details)**, in order to determine whether they are substantially responsive to the requirements set forth in the tender. In order to reach such a determination, IISER, Pune will examine the information supplied by the Bidders, and shall evaluate the same as per the specifications mentioned in this tender.
- (ii) The purchase committee may formulate evaluation criteria in addition to the specifications and requirements indicated in the tender, in the interest of IISER, Pune.

9. **Comparison of Responsive bids:**

- (i) After opening the bids, the responsive offers will be tabulated with reference to the specification.
 - (ii) After arriving at final pricing of individual offers of all the short listed firms, the lowest firm will be awarded with Contract/Purchase Order subject to availability of funds.
10. No request for extension of due date will be considered under any circumstances.
11. No sub-contracting is allowed with regard to installation, warranty maintenance and after sales service.
12. The Director, IISER, PUNE reserves the right to accept the offer in full or in parts or reject summarily or partly.

CHAPTER-2 : INSTRUCTIONS TO BIDDERS

Delivery Period / Timeliness

The deliveries & installation must be completed within 4 weeks of release of Purchase order. The time is the essence of the contract. It is mandatory for the bidders who respond to this bid to meet these expectations, as are tightly linked to IISER, PUNE's plans of completing the project within the time frame.

Locations for the Supply / Services:

Procurement of Electrical Conductivity Measurement Setup with light Source covered by this document is required to be done at IISER, Pune.

1. Eligible Bidders:

- 1.1 IISER, PUNE reserves the right to award / reject the order to any particular bidder without assigning any reason thereof.
- 1.2 Bidders should not be under a declaration of ineligibility for corrupt and fraudulent practices.
- 1.3 Bidders should QUOTE strictly in accordance with the requirements.
- 1.4 Bidders shall adhere to the procedure and processes laid down in this document and shall follow fair and ethical practices of trade.
- 1.5 Based on the list of installations provided by the bidder, IISER, PUNE will have its option to obtain details of the installations, their performance, after sales services etc. for evaluation of the tender, directly from the concerned organizations
- 1.6 Firms which have already supplied to IISER, PUNE and have not completed required installation/after sales service/warranty replacements etc. such firms offers will not be considered for further evaluation and no enquiries thereafter will be entertained.
- 1.7 Conditional Offers will not be considered.
- 1.8 IISER, PUNE will not provide any accommodation/transportation for the engineers/ representatives for attending installation. It is the absolute responsibility of the supplier to make their own arrangements.

- 1.9 The authorized person who signs the tender is required to indicate his e-mail ID, mobile No. and also general e-mail ID for easy and faster communication.

2. Amendment of Bidding Documents

At any time prior to the deadline for submission of bids, IISER, PUNE may, for any reason, whether on its own initiative or in response to the clarification request by a prospective bidder may modify the bid document.

PREPARATION OF BIDS

3. Period of validity of bids

- 3.1. Bids shall be valid for a period of **90 days** from the date of opening the bid.
- 3.2. IISER, PUNE may ask for the bidder's consent to extend the period of validity. Such request and the response shall be made in writing only. A bidder agreeing to the request for extension will not be permitted to modify his bid.

AWARD OF CONTRACT

4. Award Criteria

- 4.1 IISER, PUNE shall award the contract to the technically eligible lowest bidder.
- 4.2 If more than one bidder happens to quote the same lowest price, IISER, PUNE reserves the right to award the contract to more than one bidder or any bidder.

5. Purchaser's Right to vary Quantities at the time of Award

IISER, PUNE reserves the right at the time of award of Contract to increase or decrease the quantity of items specified in the Schedule of Requirements without any change in price or other terms and conditions.

6. Corrupt or Fraudulent Practices

IISER, PUNE requires that the bidders who wish to bid for this project have highest standards of ethics.

- 6.1. IISER, PUNE will reject a bid if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices while competing for this contract.
 - 6.2. IISER, PUNE may declare a vendor ineligible, either indefinitely or for a stated duration, to be awarded a contract if it at any time determines that the vendor has engaged in corrupt and fraudulent practices during the execution of contract
7. **Interpretation of the clauses in the Tender Document / Contract Document**

In case of any ambiguity / dispute in the interpretation of any of the clauses in this Tender Document, **Director, IISER, PUNE's interpretation of the clauses shall be final and binding on all parties**

CHAPTER - 3 : CONDITIONS OF CONTRACT

1. Price

- 1.1. The price quoted shall be considered firm and no price escalation will be permitted.
- 1.2. The price criteria should be on F.O.R., IISER PUNE. Govt. Levies like GST, if any, shall be paid at actual rates applicable on the date of delivery. Rates should be quoted accordingly giving the basic price, GST, if any.
- 1.3. Please provide GST of the firm. Allotted by the concerned authorities in your quotation.

2. Services

- 2.1. Details of services rendered as well as after-sales services offered by you are to be made clear in the tender.

3. Delivery Schedule

- 3.1. The bidders may please note that the delivery of the system should be strictly within 4 weeks of release of Purchase order.
- 3.2. Goods should not be dispatched until the Vendor receives a firm order.

4. Warranty / Support

- 4.1. The items covered by the schedule of requirement shall carry minimum three years of comprehensive warranty from the date of acceptance of the equipment by IISER, PUNE. Warranty shall include free maintenance of the whole equipment supplied including free replacement of parts. The defects, if any, shall be attended to on immediate basis but in no case any defect should prolong for more than 7 working days. The comprehensive warranty includes onsite warranty with parts.
- 4.2. The defects, if any, during the guarantee/warranty period are to be rectified free of charge by arranging free replacement wherever necessary. This includes cost, insurance, freight, octroi, local taxes if any should be borne by the beneficiary . A clear confirmation should be given for this item.
- 4.3. The warranty on the associated software should cover providing of upgraded version/s, if any, released during the warranty period free of cost.

- 4.4. The vendor will have to arrange for all the testing equipment & tools required for installation, testing & maintenance etc.
5. **Indemnity**

The vendor shall indemnify, protect and save IISER, PUNE against all claims, losses, costs, damages, expenses, action suits and other proceeding, resulting from infringement of any law pertaining to patent, trademarks, copyrights etc. or such other statutory infringements in respect of all the equipments supplied by him.
6. **Freight & Insurance**

The equipment's to be supplied will be insured by the vendor against all risks of Loss or damage from the date of shipment till such time it is delivered at IISER, PUNE site.
7. **Payment**
 - 7.1. No advance payments are allowed under any circumstances.
 - 7.2. The payment will be made after the receipt of the equipment in good condition and on satisfactory installation and commissioning and demonstration.
8. **Penalty for delayed Services / LD**
 - 8.1. As time is the essence of the contract, Delivery period mentioned in the Purchase Order should be strictly adhered to. Otherwise the IISER will forfeit EMD/SD and also LD clause will be applicable /enforced.
 - 8.2. If the supplier fails to Supply, Install as per specifications mentioned in the order within the due date, the Supplier is liable to pay liquidated damages of 1% of order value per every week of delay subject to a maximum of 10% beyond the due date. Such money will be deducted from any amount due or which may become due to the supplier.
 - 8.3. IISER, PUNE reserves the right to cancel the order in case the delay is more than 10 weeks. Penalties, if any, will be deducted from the Security Deposit.
9. **Jurisdiction**

The disputes, legal matters, court matters, if any, shall be subject to Pune Jurisdiction only.

10. Force Majeure

IISER, PUNE may consider relaxing the penalty and delivery requirements, as specified in this document, if and to the extent that the delay, in performance or other failure to perform its obligations under the Contract, is the result of a Force Majeure.

Force Majeure is defined as an event of effect that cannot reasonably be anticipated such as acts of God (like earthquakes, floods, storms etc.) acts of states, the direct and indirect consequences of wars (declared or undeclared) hostilities, national emergencies, civil commotion and strikes at successful Bidder's premises.

11. Arbitration

All disputes of any kind arising out of supply, commissioning, acceptance, warranty maintenance etc. shall be referred by either party (IISER, PUNE or the bidder) after issuance of 30 days notice in writing to the other party clearly mentioning the nature of dispute to a single arbitrator acceptable to both the parties. The venue for arbitration shall be IISER, PUNE India. The jurisdiction of the courts shall be Pune, Maharashtra, India.

Assistant Registrar (Stores & Purchase)

CHAPTER 4
SCHEDULE OF REQUIREMENTS, SPECIFICATIONS & ALLIED TECHNICAL DETAILS

Electrical Conductivity Measurement Setup with Attachment of Light Source

Part A: Specifications for Electrical Conductivity (*I-V*) Measuring Unit

Current Range: 10 nA - 1 A

Voltage Range: 20 mV – 200 V

Basic Accuracy: 0.012%

Sweep Features: Linear, Log, Dual Linear, Custom

Memory Buffer: >250000 points

Communication: GPIB, ETHERNET, USB

Software: PC Connectivity *I-V* characteristic software,

Drivers: Compatible to any solar simulator to control *I-V* characteristic software

Display: LARGE - 5" Full Colour Capacitive Touch Screen,

Dual display of parameters

Icon - Based menu system

Features: Full Four Quadrant Operation, Enhanced sensitivity, Inbuilt Instrument Control Software for performing *I-V* measurements

Dual Inputs: Front- Banana Jacks; Rear-Triax

Power Supply: 240VAC, 50Hz.

Laptop for software installation: i5 processor, 16 GB RAM, 1 TB hard disk

Intel Core Processor, 64 bit, approx. 16 inch screen

All types of Connecting cable for light source and laptop/desktop computer.

Warranty: 3 years

Part B: Specifications of Light Source Attachment to I-V Measuring Unit

1. Class AAA Portable Solar source:

Lamp: Xe Lamp

Easily portable to any place in lab

Power: 150 -160W

Mirror Unit: 45° for 360° rotation of illumination light beam

Illumination Head: Freely rotatable in 360 degree

Air Mass Filter: AM 1.5 G

Irradiance: ~0.8 to ~1.5 Sun (1 SUN = 1000 W/m²)

Effective Illumination Area with Class AAA: ≥ (40 x 40) mm²

Illumination Area: ≥ (70 x 70) mm²

Spectral Match: < ± 25% (Class A, JIS C8912 standard)

Uniformity: < ± 3% (Class A, JIS C8912 standard)

Temporal Stability: 1% / h Max (Class A, JIS C8912 standard)

Lamp alignment: XYZ triaxial stage

Shutter: Automatic

Light Shielding Shutter Control: by Pulse motor movement

Input Voltage: 220 V ac, 50 Hz, single phase

Lamp life: more than 1000 hour

Lamp Usage counter should be there in control panel

Filter Holder: Two filter to be inserted

Conveniently located and removable touch panel

Standard Unit includes: 1) Lamp Housing, Power Supply 2) Touch Control Panel 3) Automatic Shutter 4) Separate Filter Holder 5) High Speed Fan

Control Panel: Touch Control Panel: a) Lamp ON/OFF b) Shutter ON/OFF c) Shutter Timer d) Lamp Current e) Lamp Usage hour

Weight: 6-8 Kg

2. Shutter connector and shutter speed to be controlled through the software to measure dark current.

3. *I-V* Curve Analyzing Software compatible with Electrical Conductivity (*I-V*) Measuring Unit.

Measurement Parameters:

i) Open circuit voltage (V_{oc}); ii) Short circuit current (I_{sc}); iii) Conversion efficiency (E_{ff});
iv) Fill factor (FF); v) Maximum power (P_{max}); vi) Maximum Current (I_{max}); vii) Maximum Voltage (V_{max}); viii) Short Circuit Current Density (J_{sc})

4. Standard Si Cell for Light Intensity Calibration of Portable Solar Simulator

The short circuit current measured under the illumination condition with the standard sun light spectrum.

The certification is attached to the cell,

Example of a certification- Light source: 100mW/cm² AM1.5G Class A

Temperature: 25 °C Output current: 0.6123 mA

5. ND Filters

Transmittance: 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%

Warranty: 3 years

CHAPTER-5 PRICE SCHEDULE

ALL THE BIDDERS SHOULD QUOTE THEIR OFFER IN FOLLOWING FORMAT FOR UNIFORMITY

PRICE SCHEDULE FOR GOODS BEING OFFERED FROM ABROAD

Name of the Bidder _____
No. _____

Tender

1	2	3	4	5	6		7		8		9	
SI No	Item Description	Country of origin	Qty	Units	Unit Price		Total price (4x6)		Charges for Insurance & transportation to port/ place of destination		Total Price (7+8)	
					Ex-Works (named port of shipment)	FCA/FOB (named place of delivery)	Ex-Works (named port of shipment)	FCA/FOB (named place of delivery)	Ocean	Air	CIF/CIP	
1	Electrical Conductivity Measurement Setup with Attachment of Light Source		1	No								

Total Bid price in _____
in words.

Signature of Bidder :

Name :

Business Address :

Note

The Bidder may add rows as per requirement to include the prices of all Components/Parts, Warranties, Installation etc. whichever applicable.

- (a) Indian agents name & address _____
- (b) Installation, commissioning & training charges, if any _____
- (c) Cost of Spares _____
- (d) The Indian agent's commission shall paid in Indian Rupees only based on the Exchange Rate prevailing on the date of negotiation of documents.
- (e) The cost of optional items shall be indicated separately.

***Please Provide the HS Code for the Imported Item.**

PRICE SCHEDULE FOR GOODS BEING OFFERED FROM INDIA

Name of the Bidder _____

Tender No. _____

1	2	3	4	5	6	7	8	9	10	11	12
Sl. No	Item Description	Country of Origin	Qty	Unit	Ex-Works. Ex-Warehouse, Ex-show room off the shelf price (inclusive of tax already paid)	Total price Ex-Works. Ex-Warehouse, Ex-show room off the shelf price (inclusive of tax already paid) 4x6	GST payable, if contract is awarded	Packing & forwarding up to station of dispatch, if any	Charges of inland transportation, insurance up to Institute	Installation, Commissioning & training charges, If any.	Gross Total(FOR)
1	Electrical Conductivity Measurement Setup with Attachment of Light Source		1	No							

Total Bid price _____ in words.

Signature of Bidder : Name

CHAPTER – 6 : Checklist: Eligibility Criteria for Bidders

Bidders to indicate whether the following are enclosed by striking out the non-relevant option.

(a)	Self Attested copy of GST number as applicable	(Yes / No)
(b)	Agreements / Purchase orders / Completion certificates, if any, from the clients for whom similar supply has been made by the bidder in last three years	(Yes / No)
(c)	Compliance sheet with any deviation w.r.t. the terms	(Yes / No)
(d)	LD clause agreeable.	(Yes / No)
(e)	Acceptance of warranty period and Free replacements during warranty period	(Yes / No)
(f)	Deviation Sheet to be Attached	(Yes / No)

IMPORTANT NOTICE

TENDERERS RESPONDING TO THIS ENQUIRY SHALL BE DEEMED TO BE AGREEABLE TO THE TERMS AND CONDITIONS HEREIN CONTAINED. THESE TERMS AND CONDITIONS SHALL BE BINDING ON THE SUCCESSFUL TENDERER. CONDITIONAL TENDERS ARE LIABLE TO BE REJECTED. IISER PUNE WILL PROCESS THE TENDER AS PER IISER PUNE STANDARD PROCEDURES. THE DIRECTOR OF THE INSTITUTE RESERVES THE RIGHT TO REJECT ANY OR ALL OR PART OF TENDER WITHOUT ASSIGNING ANY REASON AND SHALL ALSO NOT BE BOUND TO ACCEPT THE LOWEST TENDER. IISER PUNE WOULD NOT BE UNDER ANY OBLIGATION TO GIVE ANY CLARIFICATIONS TO THE AGENCIES WHOSE BIDS ARE REJECTED.

I agree to all terms and conditions mentioned in the tender document of the Institute

Signature of the Tenderer