

#### INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH

#### PUNE

#### CLARIFICATION ON TENDER NUMBER - IISER-PUR-0879-11

#### ITEM DESCRIPTION- PROCUREMENT OF MULTI-COMPONENT SURFACE SCIENCE SYSTEM

Please refer our Press Tender Notice No.IISER/S&P/11/13 dated 21.11.2013 for procurement of Multi-Component Surface Science System. Tender Reference Number - IISER-PUR-0879-11.

Pre-Bid meeting was held on 29<sup>th</sup> November 2013 at 2.00 pm and minutes of meeting is as under.

At the outset, the Chairman welcomed all the Members and the representative of the Prospective Bidders and briefed in general the scope of the Project and thereafter requested Assistant Registrar (S&P) to brief the vendors on the salient features of the commercial terms and the indenting Officer to read out the clarification sought by the Prospective Bidders and replied thereto as detailed in Annexure -II

The representatives present were satisfied with the replies given and it was informed that the corrections / additions / clarifications given, as discussed during the Pre-Bid Conference would be hosted on the website of IISER Pune and all the Prospective Bidders are required to take cognizance of the proceedings of the Pre-Bid Conference before submitting their bids as stipulated in the Bidding Documents.

The bid submission date has been extended to 15.01.2014 up to 3.00 PM

The other terms & conditions of the notice issued on our IISER website www.iiserpune.ac .in will remain unchanged.No more correspondence in this regard will be entertained

The meeting ended with vote of thanks to the Chair.

Sd/-Assistant Registrar (S&P)

29.11.2013

DATE: 29.11.13



#### **IISER PUNE**

## PRE-BID CONFERENCE FOR PROCUREMENT OF MULTI-COMPONENT SURFACE SCIENCE SYSTEM

## TECHNICAL QUERIES AND CLARIFICATION

#### TENDER NUMBER - IISER-PUR-0879-11

S.No	Query/Clarification Sought	Clarification / Amendment	
1	Chapter 4; Page 25	Chapter 4; Page 25	
	Whether 304L is acceptable instead of UHV–SS 316LN	All construction materials should be of non-magnetic ultra-high vacuum stainless steel (UHV-SS) 316LN grade. Only Analysis chamber (Chapter 4; page 27, serial no. 8) should be made of Mu-Metal.	
	Transfer mechanism between various chambers	Transfer mechanism with rack-and-pinion rotary motion feed through or robotic	
	Port of RGA 200 or RGA 300	Port of RGA 300	
	Two stages heating first with argon lamp heating and next is electrical heating as temperature required is 150°C which is not possible with halogen.	Note that preliminary halogen heating is desirable only. Any other alternative is welcome.	

2	Chapter 4; Page 27	Chapter 4; Page 27
	Whether Purchaser allows to add additional Storage chamber on neighboring port instead storage possibility in Reorientation chamber, or is the Storage possibility in Reorientation chamber necessary if Purchaser have two Storage one on every Radial Distribution Chamber??	As specified in the tender document - Should also be used for storage of sample holders (as many as possible).
	Laser pointer, mounted on the optical axis of the analyzer, showing it on the holder surface. As understood this is for optical alignment of different analyzers on the sample.	Laser pointer, mounted on the optical axis of the analyzer, showing it on the holder surface – to optically adjust the sample and analyzer spots.
	Analysis Chamber - Analysis instruments are too many to equip relative to the size of a chamber, so it may hard to use, and R3000 cannot provide good performance enough. So two chambers which are for XPS/UPS/ARPES/ISS and for LEED analysis should be equipped.	No modification (as specified in the tender document)
3	Chapter 4; Page 28	Chapter 4; Page 28
	Electron source (flood-gun) - Any preferred other than Omicron.	Omicron is not mentioned. A complete package of any standard and reliable electron source (flood-gun) with the specifications as specified in the tender document.
4	Chapter 4; Page 29	Chapter 4; Page 29
	Whether standard product with frequency range 6MHz can be offered?	No change in specification / modification (as specified in the tender document)
5	Chapter 4; Page 30-31	Chapter 4; Page 30-31
	TDS: Whether Purchaser allows offered RGA200 instead RGA300?	No modification (as specified in the tender document).  Note: a complete package of Hiden TPD (500 amu) with Feulner cap is preferable.
	Thermal evaporation: 1 x 3-4 pocket: Whether Purchaser allows offered 2 x 2 pocket thermal evaporator dedicated and recommended to evaporate salts.	No modification (as specified in the tender document)
	Operation with inert (Ar) and reactive gases (O2, H2, hydrocarbons etc). Please let us know preferred hydrocarbons other than methane and expected range of flow rates	Ion source: this is primary for standard cleaning of samples. Reactive gases mentioned are for various reactive-etching purposes. Hydrocarbons are only desirable.

6	Chapter 4; Page 32	Chapter 4; Page 30-31
	FTIR and Ellipsometer	FTIR - as specified in the tender document. The spectrometer should not only be useful for in-situ (UHV) IR measurements but also be useful for ex-situ ellipsometry (a complete attachment of ellipsometry facility, not necessarily from Brucker, is required) for reliable sample thickness measurements.
7	Chapter 4; Page 33	Chapter 4; Page 33
	Fore-Vacuum Chamber	No modification (as specified in the tender document)
8	Chapter 4; Page 33-35	Chapter 4; Page 33-35
	Accessories Custom made Vacuum-desiccators - What is meant by custom made?	Custom made Vacuum-desiccators (for sample and etc. storage – 4 small set and a combined big set) – similar to SECADOR Desiccators Cabinets
	HOPG (from SPI, West Chester, PA 19381-0656, USA: 3 samples – SP-1, SP-2 and SP-3) - PI. provide further clarifications  A standard hotgun from BOSCH. Can you mention the model no.	HOPG - Highly Oriented Pyrolytic Graphite; SPI – Structure Probe, Inc. – a well-known supplier of HOPG.  Bosch GHG 630 Heat Air Gun
	1 set of Industrial labeling K5100 with 10 extra cartridges. Labels for what purpose, to stick on which surfaces?	Labels to stick on cables, computer, electrical and electronic cabinets, pipe lines etc etc.
	Attachment of a super-magnet / suitable electromagnet (field ~150 mT) in a suitable place (preferably IR chamber) to magnetize (in-plane and out-of-plane) thin films of Co, Ni, Fe and Mn. Please explain the sample holder design	Samples are standard singles crystals or thin films on Omicron paddles. The key point: thin-films of Co or Ni – thickness below 20 nm).
	A complete package of central gas-dosing systems with all necessary requirements to connect to various leak-valves in the whole systems (gases to be used He, Ar, O2; NO; NO2; NH3, CO, CO2, SO2; Cl2; N2). Please give	Gas-dosing is a standard practice in UHV science. Each gas cylinder should have its specific controller where flow can be controlled manually.
	typical flow rates for each gas so that correct MFC's can be specified.	To illuminate UHV chamber through glass windows.
	LED illumination for all the components. Please let us know the "LED illumination for all the components" where to illuminate.	Standard UHV Tool-set cabinets and boxes (2 sets each; one big and fixed and one relatively small and movable) for the whole instrumentations
		DUMONT Tweezers Set (2 sets)

DATE: 29.11.13



### **IISER PUNE**

### PRE-BID CONFERENCE FOR PROCUREMENT OF MULTI-COMPONENT SURFACE SCIENCE SYSTEM

## COMMERCIAL QUERIES AND CLARIFICATION

TENDER NUMBER - IISER-PUR-0879-11

S.No	Query/Clarification Sought	Clarification / Amendment
1.	Extension for Date of Submission of Technical Bids  Bidders requested to extend Bids submission date from 26 December 2013 to 20 <sup>th</sup> January 2014	The Date of Submission and opening of technical Bid is revised as given below.  Submission of Bids - Due Date & Time  15.01.2014 up to 3.00 PM
2.	Page no 2 , Eligibility Criteria, Point under Resident Engineer	Opening of Technical Bids - Due Date & Time 15.01.2014 at 03.30 PM  Page no 2, Eligibility Criteria, Point under Resident Engineer is revised as
	Bidder has to depute a full-time Resident-Engineer (no accommodation from IISER Pune) for the complete warranty period i.e. 5 years from the date of installation and demonstration.	Bidder has to depute a full time Resident Engineer cum operator who will be responsible for the maintenance and operation of the equipment during Institute working hours (no accommodation from IISER Pune shall be provided) for the complete warranty period i.e. 5 years from the date of installation and demonstration.

3.	Chapter 2, Page 13 point: Delivery Period/Timeliness - The deliveries & installation must be completed within 6 months, after placement of purchase order.	Chapter 2, Page 13 point :Delivery Period/Timeliness
	Extend the delivery time up to 15 months after receiving the Letter of Credit.	The deliveries & installation must be completed within 12 months, after Placement of purchase order.
4.	Chapter 2, Page 14 point 3: Earnest Money Deposit	Chapter 2, Page 14 point 3: Earnest Money Deposit, please read as
	<ol> <li>Whether EMD can be reduced to Rs.12 lacs instead of Rs.30 lacs</li> <li>Is it possible to accept foreign Principal / Bidder Draft for Bid Security Form?</li> <li>Validity for Bid Security Form.</li> </ol>	<ol> <li>EMD shall be submitted as per tender document. No change in terms &amp; conditions.</li> <li>Foreign Demand Draft is not accepted</li> <li>The Validity for Bid Security is 6 months</li> </ol>
5	Chapter 3, On page 23 point 15: Payment	Chapter - 3, On page 23 point 15: Payment
	<ul> <li>If acceptable for the Purchaser Payment conditions:</li> <li>50% order's gross value up to 14 days after receiving order confirmation upon receipt of Bank Guarantee which will be valid till delivery time.</li> <li>40% order's gross value up to 14 days after delivery;</li> <li>10% order's gross value up to 14 days after installation upon receipt of Bank Guarantee which will be valid till warranty period from the date of installation.</li> </ul>	No Change in Payment Terms & Conditions of tender.
6	Chapter 7, On Page 39: Pre Contract Integrity Pact	Chapter 7, On Page 39: Pre Contract Integrity Pact
	Who will be signing on behalf of IISER	Registrar , IISER Pune will be signing Integrity Pact on behalf of IISER
	Page 46 -Whether this signature should be obtained before submitting the bid	Page 46 - The signature should be obtained after submitting the bid
7	Chapter 2, On Page.17; Clause 10, point 10.1: Purchaser's Right to vary Quantities at the time of Award	Chapter 2, On Page .17; Clause 10 Point 10.1: 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	This clause is deleted. Bidder shall take note of

	Requirements without any change in price or other terms and conditions.	it and quote accordingly.	
8	Chapter 3, Page 24, clause 16, point 16.2- Penalty for delayed Services / LD	Chapter 3, Page 24, clause 16, point 16.2- Penalty for delayed Services / LD	
	Whether it can be 0.5% of order value per every week of delay subject to a maximum of 10% beyond the due date.	No Change in Tender Terms & Conditions	
9	Chapter 3, Page 21, clause 9, point 9.3 After successful installation What will be the minimum down time of equipment/instrument in case of breakdown? If the identified firm or person fails to put the system into working condition what is the further alternative course of action suggested by you to adhere to minimum down time.	In case when the Resident Engineer / Engineer from Principal Company fails to put the system in working condition within 15 days ( from the date of break down). The warranty shall be extended for the same period.  All the bidders are required to submit technical bulletin of complete installation	
		and demonstration for the whole instrumentation	
10	Chapter 5, Page 37, Price Schedule (commercial bid)	Chapter 5, Page 37, Price Schedule (commercial bid) format is revised and given below as ANNEXURE -III (a)	

### **CHAPTER-5: PRICE SCHEDULE**

### **Bill of Material and Price Schedule**

The Bill of materials must be included in the technical offer as well as commercial offer. **However the**Technical offer should not contain any price information.

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

Sr. No.	Item Description	Rate	Total Amount. Currency.
1	Radial Distribution Chamber 1 (RDC1		,
2	Entry Lock Chamber 1		
3	Storage Chamber 1		
4	Radial Distribution Chamber 2		
5	Entry Lock Chamber 2		
6	Storage Chamber 2		
7	Reorientation Chamber		
8	Analysis Chamber		
9	Preparation Chamber 1 (for Organics)		
10	Preparation Chamber 2 (for Metals)		
11	Preparation Chamber 3 (for Irradiation)		
12	Infrared (IR) Chamber		
13	Omicron-STM Dock Chamber		
14	Fore-Vacuum Chamber		
15	Accessories		
		Total	

	Ex-Works Price	
	FOB/FCA Charges	
	FOB/FCA Price, Name of Port.	
	CIF/CIP Charges	
	CIF/CIP Price, Name of Port.	
Amoui	nt in Words:	

## Discount if any, should be shown accordingly

Optional items

Sr. No.	Item Description	Quantity	Rate	Total Amount. Currency.
				_

# Indigenous Supply (Local Supply)

Sr. No.	Item Description	Quantity	Rate	Total Amount. Currency ( Rs)	
	Total				
	(+) Taxes etc.				
			Grand Total		
Amount i	n Words ( in Rs)				