



## **INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH PUNE**

### **PRE-BID CLARIFICATION ON TENDER NUMBER - IISER/PUR/1796/22**

#### **ITEM DESCRIPTION- PROCUREMENT OF MULTI-USERS X-RAY PHOTOELECTRON SPECTROSCOPY (XPS) FACILITY**

Refer IISER Pune tender number no. IISER/PUR/1796/22 dated 24/03/2023 for Procurement of Multi-users X-ray Photoelectron Spectroscopy (XPS) Facility.

An Online Pre-Bid meeting was held on 06/04/2023 at 4:00 PM and minutes of meeting is as under:

At the outset, the committee welcomed all the Members and the representative of the Prospective Bidders and briefed in general the scope of the tender and thereafter requested Assistant Registrar (S&P) to brief the bidders on the salient features of the tender.

The representatives present were satisfied with the replies given and it was informed that the corrections / additons / 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 other terms & conditions of the notice issued on our IISER website [www.iiserpune.ac.in](http://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

06/04/2023

Sd/-  
Assistant Registrar (S&P)

## TECHNICAL AND COMMERCIAL QUERIES AND CLARIFICATION

### PRE-BID CONFERENCE FOR PROCUREMENT OF MULTI-USERS X-RAY PHOTOELECTRON SPECTROSCOPY (XPS) FACILITY

S. No	Query/Clarification Sought	Clarification / Amendment
1	<p><b><u>Chapter No.4, Page No. 24:</u></b> Hemispherical deflection analyzer:</p> <p><b><u>Query:</u></b> Specify deflection In our analyzer, we provide: The deflection feature is a big advantage as it allows to keep the sample in a fixed position and instead uses the deflectors to change the angular range in <math>\theta_y</math> projected on to the analyzer slit. This ensures the same position of the sample is probed during the whole measurement. In addition, keeping the experimental geometry fixed throughout the measurement sequence avoids matrix element effects which are caused by variations in ionization cross section for different photon to sample angles. This allows to acquire higher quality data using the faster and more precise electronic deflection compared with mechanical sample movement. Another advantage, for some samples, is that decreased rotation requirements allow manipulators with fewer degrees of freedom to be used. This ultimately allows for lower sample temperatures to be reached.</p>	<p><b><u>Chapter No.4, Page No. 24</u></b></p> <p>Deflection also means ‘to keep the sample in a fixed position and instead uses the deflectors to change the angular range’.</p>
2	<p><b><u>Chapter No.4, Page No. 23, Point No.2</u></b> Analyzer Radius: 150 mm or more</p> <p><b><u>Query:</u></b> Our analyser meets the specified energy resolution which is more compact designed. Please accept more efficient and</p>	<p><b><u>Chapter No.4, Page No. 23, Point No.2 is amended as:</u></b> Analyzer Radius: <math>\geq 135</math> mm</p>

	compact radius design.	
3	<p><b><u>Chapter No.4, Page No. 23, Point No.1, Sub-Point-1.4</u></b> Drain current measurement</p> <p><b><u>Query:</u></b> In Components of Analysis chamber point 1.4 you mentioned “(drain current measurement)”, can you please explain what you mean by drain current?</p>	It means reading current values from the sample holder
4	<p><b><u>Chapter No.4, Page No. 23, Point No.2,</u></b> 12.5% of Pass Energy</p> <p><b><u>Query:</u></b> For the analyser you specify 12.5% of pass energy, we offer 12%, please accept.</p>	<b><u>Chapter No.4, Page No. 23, Point No.2 is amended as:</u></b> ≥12% of pass energy
5	<p><b><u>Chapter No.4, Page No. 23, Point No.2,</u></b> Electron Energy Analyzer: should have full facility for regular XPS/ UPS/ ARPES/ ISS measurements:</p> <p><b><u>Query:</u></b> Is ARPES mandatory?</p>	<b><u>Chapter No.4, Page No. 23, Point No.2</u></b>  ARPES is not mandatory
6	<p><b><u>Chapter No.4, Page No. 22, Point No.1, Sub-point No. 1.2</u></b></p> <p>Pumping System and gauges: Is it mandatory to include the exact same pumps a mentioned here even if we are able to achieve the exact vacuum as mentioned in the specs with our standard pumping system?</p>	Tender Specifications in tender prevail.
7	<p><b><u>Chapter No.4, Page No. 22, Point No.1, Sub-point No. 1.3</u></b></p> <p>Z-motion module with 75 mm stroke: Is it mandatory? What is the application?</p>	Z-motion module with ≥12 mm stroke
8	<p><b><u>Chapter No.4, Page No. 23, Point No.2</u></b></p> <p>Energy resolution: &lt; 3 meV FWHM at 20 eV kinetic energy •: This is mentioned under “XPS/ UPS/ ARPES/ ISS measurements. “This particular resolution corresponds to which measurement exactly?</p>	Energy resolution primarily corresponds to XPS and UPS measurements.

5	There are also some optional items in your tender but your BOQ does not have separate columns to fill	<p>in excel BOQ, price of main equipment should be mentioned.</p> <p>However, Bidder may quote main equipment and optional items in pdf format separately while submitting the financial bid.</p>
6	<p><b><u>Chapter No.2, Page No. 11, Point No.2</u></b></p> <p>Delivery of 90 days is not realistic. We need 8-10 months after order and drawing approval.</p>	<p><b><u>Chapter No.2, Page No. 11, Point No.2 is amended as:</u></b></p> <p>The deliveries &amp; installation must be completed within 08 months after placement of purchase order/after opening of LC.</p>
7	Can you accept advance payment against bank guarantee?	<p>No.</p> <p>Please refer clause No.15, Chapter No.3 and Page No. 17</p>