



INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH

PUNE

CLARIFICATION ON TENDER NUMBER - IISER/PUR/2102/20

ITEM DESCRIPTION- PROCUREMENT OF GLOVE BOX-THERMAL EVAPORATOR (LED FABRICATION) SET-UP

Refer IISER Pune Global tender number - IISER/PUR/2102/20 for procurement of Glove box-Thermal evaporator (LED fabrication) Set-Up.

The detailed tender was published on Institute website www.iiserpune.ac.in and on CPP Portal on 06th July, 2021.

Pre-Bid meeting was held on July 23rd, 2021 at 4.00 PM via video conferencing and minutes of meeting is as under:

At the outset, the Assistant Registrar (S&P) welcomed all the Members and the representative of the Prospective Bidders and briefed in general the scope of the tender. Later on indenting Officer 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 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

23.7.2021

Sd/-
Assistant Registrar (S&P)

**IISER PUNE****PRE-BID CONFERENCE FOR PROCUREMENT OF GLOVE BOX-THERMAL EVAPORATOR (LED FABRICATION) SET-UP****TECHNICAL & COMMERCIAL QUERIES AND CLARIFICATION**

TENDER NUMBER - IISER/PUR/2102/20

DATE : 23.07.21

S.No	Query/Clarification Sought	Clarification / Amendment
1	Page 20, Section 1.1 Should the window be Glass or Polycarbonate? Both have a significant cost difference, however Glass is far better than Polycarbonate.	Tender Specification Amended Window, Polycarbonate panel SAPHIR hard coating which is resistant to scratches and many harsh chemicals.
2	Page 20, Section 1.1 Voice controlled system: Can it be made optional?	Tender Specification prevails. No change in the specification.
3	Page 20, Section 1.1 Solid state oxygen and moisture sensors are not good for solvents	Tender Specification prevails. No change in the specification.

4	<p>Page 20, Section 1.1</p> <p>Oil-Free based pressure relief valve: “We use an Oil based pressure safety valve that is central to our Glove Box work mechanism. Can share the advantages of a Pressure safety valve separately if needed”</p>	<p>Tender Specification prevails.</p> <p>No change in the specification.</p>
5	<p>Page 20, Section 1.1</p> <p>Water proof foot pedal: “The Pressure Control in a Jacomex Glove Box is fully automated and independent of Foot Pedal”</p>	<p>Tender Specification prevails.</p> <p>No change in the specification.</p>
6	<p>Page 20 (Section 1.1) and Page 22 (Section 1.2)</p> <p>Minimum 1 purifier filter column system with capacity: ~50 liters oxygen and ~1500 g moisture: “Jacomex Capacity is 45 Litres for O2 & 1460 gm for Moisture”</p>	<p>Tender Specification prevails.</p> <p>No change in the specification.</p>
7	<p>Page 25, Section 3</p> <p>Recirculation Chillers: “Are Only Chillers needed and not a heat exchanger? Does the Institute have a Heat exchanger available?”</p>	<p>Refer to section 1.1 and 1.2 for heat exchanger.</p> <p>Tender Specification prevails.</p> <p>No change in the specification.</p>
8	<p>Page No 24, Section 2.2</p> <p>Please clarify whether co- evaporation is required from two sources for Al, Au, Ag, and Pt.</p>	<p>Discussed in the meeting.</p> <p>Tender Specification prevails.</p> <p>No change in the specification.</p>
9	<p>Page No 24, Section 2.2</p> <p>Do you need an individual power supply for each of the resistive evaporation source (i.e. 3 power supplies for three sources?)</p>	<p>Discussed in the meeting.</p> <p>Tender Specification prevails.</p> <p>No change in the specification.</p>
10	<p>Section 2.3, Page no 24.</p> <p>“Please clarify whether co- evaporation is required from three organic sources. If yes, you need to have three temperature controllers. It is</p>	<p>Discussed in the meeting.</p> <p>Tender Specification prevails.</p>

	not recommended to switch the power between the three organic sources with two power supplies manually due to safety of the operator. We suggest you to have individual power supply for each source.”	No change in the specification.
11	“Is there any acceptance criteria for thickness uniformity, If yes what is the edge exclusion area?”	Refer to Section 2.6 Tender Specification prevails. No change in the specification.
12	“We request you to kindly extend the delivery period and installation lead time to within 180 days instead of within 120 days after placement of purchase order since it is a customized system, involved imported items and also consider the pandemic challenges to complete the equipment.”	Tender Specification prevails. No change in the specification.
13	Page No 24, Section 2.5 “We feel the dry scroll backing pump used in the vacuum system (Tech specification - 2.5) can be amended to 10 m3/hr instead of 20 m3/hr. We do not feel that changing this specification will functionally change the performance of the Thermal Evaporator.”	Tender Specification prevails. No change in the specification.
14	Page No 24, Section 2.2 - “regarding Thermal power supply - We believe that a 8V/100A Solid Stage Power Supply will be sufficient to thermally evaporate Al, Au, Ag, Pt. The Temperature at which LiF can be evaporated is 875 Dec C & we feel the 8V/100A Thermal Power Supply that we offer is sufficient for evaporation of LiF. We request you to consider amending this technical specification appropriately”	Tender Specification prevails. No change in the specification.

15	<p>“Regarding High Vacuum Valve -None of the Moorfield MiniLab Systems are equipped with a High Vacuum Valve. The reason is Moorfield offer a fully automated PLC Controlled Vacuum System & hence no high vacuum valve is required to operate the system. It is a single touch Vacuum or Vent operation. Adding a High Vacuum Valve will negate the possibility of offering a fully automated vacuum system & hence we request you to keep this high vacuum valve optional. If some manufacturers need it they can offer it. However if some do not need it, then they may be allowed to offer the system without it. Once again having a High Vacuum Valve or Not having one does not change the functionality of the Thermal Evaporator.”</p>	<p>No need to change any technical specification right now. The committee will look into it at later stage, with all necessary data available.</p> <p>Tender Specification prevails.</p> <p>No change in the specification.</p>
16	<p>“ISER Specification for Individual shutter for FTM Crystal Head</p> <p>Once again, it is an extremely expensive option with not much advantage. The FTM Crystals are so in-expensive that the cost of 1 shutter will buy enough Crystals which will last for a long long time. Incorporating the shutters on each of the FTM Crystal Head will make the chamber extremely crowded for servicing & access to the insides of the chamber will be very difficult.”</p>	<p>Tender Specification prevails.</p> <p>No change in the specification.</p>
17	<p>“Regarding Ultimate Vacuum -</p> <p>IISER has asked for a system to meet a ultimate vacuum specification of 1 X e-6 mbar. With a 700 L/s TMP backed by a 10 m³/hr, for a properly design vacuum system, we can guarantee ultimate vacuum of 5 X e-7 mbar atleast. We request you to kindly consider upgrading the vacuum specification for ultimate vacuum to atleast 5 X e-7 mbar or better.”</p>	<p>Tender Specification prevails.</p> <p>No change in the specification.</p>
18	<p>“We can offer a PC Controlled Thermal Evaporator System which is controlled thru a Windows based Intellidep Software. Since we offer a Windows based PC with the system, it allows setting passwords, multi-level access control & more importantly data logging facility which is very useful during troubleshooting. Hence we request you to atleast add this functionality to the technical specification. The System should</p>	<p>Tender Specification prevails.</p> <p>No change in the specification.</p>

	<p>be PC Controlled & should be supplied with Windows based fully automated control system. We request you to kindly consider the same.”</p>	
19	<p>Page 23, Section 1.4</p> <p>“Vacuum System for glove box: Edwards/ Leybold/ Pfeiffer make dry scroll pump with ~20 m³ /h or more (2 numbers).</p> <p>20m³/hr = 12 cfm</p> <p>We request you to change as 6.5 cfm as this is more than sufficient for glove box operation, evacuation & is standard and economical”</p>	<p>Tender Specification Amended</p> <p>Edwards/ Leybold/ Pfeiffer make dry scroll pump with ~11 m³/h (~6.5 cfm) or more (2 numbers)</p>
20	<p>Page 24, Section 2.5</p> <p>“Vacuum System for Evaporator</p> <p>Edwards/ Leybold/ Pfeiffer make dry scroll pump with 20 m³ /h or more. 20m³/hr = 12 cfm</p> <p>We request you to change as 6.5 cfm as this is more than sufficient for roughing the chamber before the turbo pump takes over & is standard and economical”</p>	<p>Tender Specification prevails.</p> <p>No change in the specification.</p>
21	<p>Page 23, Section 1.3</p> <p>“T-shaped antechamber connecting Globe box 1 and Glove box 2</p> <p>We request you to change as 390mm D x800mm L 800mm is standard”</p>	<p>Tender Specification prevails.</p> <p>No change in the specification.</p>