

PREBID CLARIFICATION

I-HUB QUANTUM TECHNOLOGY FOUNDATION, IISER, PUNE

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Refer I-HUB QTF's global tender enquiry (2023_IISRP_783840_1) dated 05/12/2023 with file reference no. I-HUBQTF/PUR/23-24/011 for the procurement of Combinatorial Pulsed Laser Deposition system. The Pre-Bid meeting was held on 12/12/2023 at 3.00 PM.

At the outset, the Admin Representative welcomed all the Members and the Representatives of Prospective Bidders and briefed in general the scope of the tender and thereafter briefed 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 / additions / clarifications given, as discussed during the Pre-Bid Conference would be hosted on the website of I-HUB QTF, 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. Attached are the detailed technical and commercial queries with their clarifications (Annexure I).

The other terms & conditions of the notice issued on CPPP and on I-HUB QTF's website (quantech.org.in) will remain unchanged. No more correspondence in this regard will be entertained. The meeting ended with a vote of thanks.

Sd/-

Project Director / Chief Executive Officer

TECHNICAL AND COMMERCIAL QUERIES AND CLARIFICATION – ANNEXURE I

SN	Query / Clarification Sought	Clarification / Amendment
1	Request for an extension of delivery period from 8 months to 10 months.	This is acceptable, and the delivery & installation period is extended to 10 months
2	To keep the installation period separate from the delivery period scope as the installation requires foreign application engineer visit.	This is not acceptable, considering the urgency of the project deliverables. The vendors are urged to plan the visits of the installation engineers in advance so that the installation and delivery can both be completed in 10 months
3	We understand that you need both the Scanning RHEED or High Pressure RHEED (Parallel Scanning RHEED unit with double-stage differential pumping). If yes, please reconfirm the specs on point 9 of High pressure read attachment. Tender says Scanning RHEED for combinatorial samples (Is Mechanical X, Y, tilt motion for high Pressure RHEED is also needed ?).	The high pressure RHEED is a mandatory item. The scanning RHEED may be quoted as a separate (optional) attachment.
4	Similarly in Software / Automation point number 2 only Scanning RHEED is mentioned (Is High pressure RHEED needed ?).	The high pressure RHEED is mandatory, and all necessary automation/software attachments have to be included in the main quote. The Software/automaton for the scanning RHEED may be quoted as an optional item.
5	CPLD Main Deposition Chamber, – Substrate Holder Details Point No. 4 Gradient heating with defocus optics as an optional feature	This is acceptable. The vendor may quote for uniform heating over the entire 10 mm x 10 mm area in the main quote, and the temperature gradient heating may be quoted separately as an optional item.
6	CPLD Main Deposition Chamber – Substrate Holder Details Point No. 6 Combinatorial PLD by two linear masks – would one linear mask moving along X suffice ?	This is acceptable. One mask moving along X is mandatory and should be included in the main quote. A second mask moving along Y may be quoted as an additional (optional) feature.

7	<p>CPLD Main Deposition Chamber – Substrate Holder Details</p> <p>Point No. 9</p> <p>Number of Pyrometers in built in the system for monitoring the substrate surface temperature.</p>	<p>This is now amended. One pyrometer is a mandatory item, and any additional pyrometers may be quoted as optional items.</p>
8	<p>CPLD Main Deposition Chamber – Laser Optics</p> <p>Point no. 3:</p> <p>Quartz view port with shutter directly opposite to laser introduction port.</p>	<p>This remains a mandatory item. It is important for us to check the laser power intensity after it passes through the view ports.</p>
9	<p>Load Lock Chamber</p> <p>Point no. 2</p> <p>No target parking stage in the load lock</p>	<p>This is now amended, and target parking stage in the Load Lock chamber is now an optional item to be quoted separately.</p>
10	<p>Load Lock Chamber</p> <p>Point no. 4</p> <p>Pre annealing heater: >300C.</p>	<p>This is now amended, and the pre-annealing heater is an optional item to be quoted separately.</p>
11	<p>Load Lock Chamber</p> <p>Point no. 7</p> <p>Spare ports for future upgrades. Thermal metal depositor to be quoted as an optional item</p>	<p>This is amended to read “Spare ports for future upgrades. Thermal metal depositor/DC sputter source to be quoted as an optional item”</p>
12	<p>High Pressure RHEED attachment</p> <p>Point no. 9</p> <p>Scanning RHEED for combinatorial samples.</p>	<p>This is amended. The high pressure RHEED is a mandatory item, and the Scanning RHEED is now an optional item to be quoted separately.</p>
13	<p>CPLD Main Deposition Chamber – Basic</p> <p>Point no. 8</p> <p>>250 l/s (or higher) Turbo molecular pump and >230 l/min Rotary Pump with controller and suitable vacuum gauges.</p>	<p>This is amended to read “>250 l/s (or higher) Turbo molecular pump and >230 l/min Rotary / Scroll Pump with controller and suitable vacuum gauges.”</p>