

INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH TIRUPATI

CLARIFICATION ON TENDER NUMBER: IISERT/PUR/0474/19

ITEM DESCRIPTION- SUPPLY, INSTALLATION AND COMMISSIONING OF THERMAL EVAPORATOR WITH TURBO PUMPS INTEGRATE TO BOTTOM OF THE GLOVE BOX

ANNEXURE -I

TECHNICAL QUERIES AND CLARIFICATION

TENDER NUMBER - IISERT/PUR/0474/19

DATE: 23/01/2020

	Query/Clarification Sought	Clarification / Amendment
1.	Chamber	
	Suggested to consider SS316 and requested to	Based on the suggestions we have revised the specifications for required
	include thickness of the chamber and details of	chamber material as either SS304 or SS316 and the required thickness is \sim 5
	linear motion feed through	mm.
		Details of Linear Motion Drive Feedthrough (Z-Axis)
		Allowable leak amount $\leq 1.33 \times 10 - 11$ (Pa · m 3 / sec)
		Allowable heating temperature ≤ 200 (°C)
		Moving distance 50 (mm) to 100 (mm)
		Positioning scale 0.01 (mm)
		Drive shaft diameter $\varphi 8 \text{ (mm)}$
	Viewport	Connection flange size ICF-70 FH
	Requested to provide Viewport material and	
	thickness	
		Material: Quartz glass, sapphire and lead glass. Thickness: 10 mm
2.	Turbo molecular pumps	We have revised the specification based on their request as either pumps of
	Suggested for high capacity with low RPM	650 L/sec with $\sim 45000 \text{ rpm}$ or pumps with 800 L/sec with $\sim 32000 \text{ rpm}$ and
		required ultimate pressure in both the cases is 5X10 ⁻⁷ mbar



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3.	Viton gate valve/Viton bonnet and Rotary vacuum pump Asked to provide more details	In addition to the previous details, the gate valve should meet the following requirements: Mounting position: Any orientation, Leak rate: < 10- 9 mbar l s- 1, Maximum differential pressure on the valve plate: 1 bar / 750 Torr in either direction, Maximum differential pressure on the valve plate at opening: 20 mbar / 15 Torr, Metal sealed valves: OFHC
		Required average life until first service is updated to100000 closures from 40000 closures
4.	Evaporation source holder Provide details	In addition to the previous details, based on their request, we ask the suppliers to provide all the three K-cells in a equilateral triangle fashion assembled perfectly inside the ICF-152FH flange. The suppliers are requested to provide clear line drawing of the K-cell and heating coils while submitting the documents.
5	Important Note: Suppliers are requested to provide product number, make (for both local/imported) and clear line drawings and brochure of all the major items (mentioned as item headings from 1 to 6) in our previous document.	



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ANNEXURE -II

COMMERCIAL QUERIES AND CLARIFICATION

TENDER NUMBER - IISERT/PUR/0474/19

DATE: 23/01/2020

Sr.N	Query/Clarification Sought	Clarification / Amendment
1	In BOQ excel, please mention the feasibility for	For Optional Item Pricing, Bidder may upload PDF file (Details Break of Price
	entering optional items pricing.	Schedule) which is available on CPPP.