

TECHNICAL CORRIGENDUM

**I-HUB QUANTUM TECHNOLOGY FOUNDATION, IISER, PUNE**

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Domestic Tender Ref. No: **I-HUBQTF/PUR/22-23/017**  
Domestic Tender ID: **2023\_IHUBQ\_698678\_1**

Date: **14/03/2023**

With Tender Reference Number: I-HUBQTF/PUR/22-23/017 dated 10/02/2022, for the procurement of **Optical Tables**, it is notified that the tender quantity/specifications are amended as below:

**Tendered / Pre-Bid Specification**

SN	Technical Description	Qty
1	<b>Model: P/N: 04SI806759</b> Custom M-ST Table Top: 1200 x 2400 x 305 mm Special Features: non magnetic Steel Top Optical Table, M6	2
2	<b>Model: S-2000A-423.5</b> Set of Four S-2000, 23.5.Active Levelling	2
3	<b>Model: ACGP-02</b> <b>Air Compressor, Low Noise,</b> <b>3.5 Liter Capacity 220 VAC</b>	2

**Amendment in Specification**

S.N.	Specifications	Marks
		-
•	<b>Optical table with non-magnetic stainless steel top.</b>	-
	<b>Pneumatically isolated, broadband active damping integrated into the Bread Board independent of load.</b>	-
	<b>Compressor</b>	-
		-

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CIN: U73100PN2021NPL199577 | GST: 27AAGCI0709R1Z5

	<u>Laboratory Grade Active Vibration Isolation Optical Table with broadband electronic/electromechanical dampers integrated into the breadboard: (Specifications)</u>	-
	Optical Table Top Specifications:	-
1	Optical Table Top Width : 1200 mm	15
2	Optical Table Top Length : 2400 mm	
3	Optical Table Top Thickness : $\geq$ 300 mm	
4	Height of Top Skin from Ground : 900 mm – 940 mm (with pneumatic vibration isolators)	
5	Top Skin Thickness : $\geq$ 4.0 mm	4
6	Top Skin Material : Non Magnetic Stainless Steel of suitable grade	4
7	Top Skin Flatness : +/- 0.15 mm Over Entire Working Surface	2
8	Top Skin Finish : Surface should have non-glare surface finish	3
9	Mounting Hole Type : M6	4
10	Mounting Hole Pattern : 25 mm Grid (pitch between holes to be 25 mm)	2
11	Mounting Hole Depth : >15 mm	3
12	Mounting Hole Sealing : >20mm Long Polymer Cup/Steel Cup	2
13	Mounting Hole Borders : < 38 mm	2
14	Core Design : Steel Honeycomb Core Structure, $\geq$ 0.25 mm Thick Steel Sheet	2
15	Core Shear Modulus : > 270,000 psi	2
16	Honey comb Core Cell Size : < 350 mm <sup>2</sup>	2
17	Sidewalls : Damped, Formed Steel Channel, Vinyl Covered	2
18	Bottom plate : $\geq$ 4.0 mm Thick Non-Magnetic Stainless Steel of suitable grade	2
19	no of internal Smart Dampers : 2, Nature Of Damping : Broadband Electronic Damping with built in electronic/electro-mechanical dampers inside the breadboard (Performance data to be supplied with electronic damping in activated state and deactivated state)	15
	<b>• Active Vibration Isolators (Specifications)</b>	
20	Optical Table Supports : 4 nos of Pneumatic Isolators	4
21	Pneumatic Isolator Height Adjustment : > +/- 10 mm (height of legs should be such that the table top height should be as given in serial no 5 above)	2

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22	Pneumatic Isolator Horizontal Natural Frequency : $\leq 5$ Hz	2
23	Horizontal Isolation, 5 Hz : $\geq 85\%$	3
24	Horizontal Isolation, 10 Hz : $\geq 90\%$	2
25	Pneumatic Isolator Vertical Natural Frequency : $\leq 5$ Hz	2
26	Vertical Isolation, 5 Hz : $\geq 85\%$	2
27	Vertical Isolation, 10 Hz : $\geq 90\%$	2
28	Load Capacity per Isolator : $> 450$ kg	4
29	Releveling Accuracy : $< +/- 0.3$ mm	3
30	Settling Time : $< 2$ Sec	3
31	internal aluminum and carbon steel spring dry Tuned Mass Dampers located in corners opposite electronic Dampers	5
32	Active damping controller and Portable, quiet air compressor should be provided with optical table.	-
33	Service and warranty : At least 3 years from the date of installation	-

**Minimum Qualifying Score: 90 and above.**

Sd/-

Chief Executive Officer  
I-HUB QTF, IISER Pune

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