भारतीय प्रौद्योगिकी संस्थान इंदौर
खण्डवा रोड़, सिमरोल, इंदौर - 453 552, भारत
Indian Institute of Technology Indore
Khandwa Road, Simrol, Indore - 453 552, India
www.iiti.ac.in
IIT Indore

Ref. No.: IITI(MM)/BSBE(PRJ)/1/1A/167/HK/2025-2026 **February 13, 2026**

PREBID REPORT

The online meeting for Pre-bid discussion will be held at **IIT-Indore through online on 06/02/2026 at 03:00 PM onwards** for **Supply and Installation of Maskless Lithography System and Accessories.**

Please find below the queries received and their responses.

Sl. No.	Reference of the Clause/ Page No. of the Tender Document	Query raised	Query Raised by	Response from IITI
1.	**Page No. 10, Sr. No. 15** **Z-Axis Movement / Substrate Thickness** **Current Specification:** **Motorized Z-lift: 25 mm**	**Proposed Revision:** Motorized Z-lift: stepper motor, suitable travel range to accommodate 20mm thick samples, ≤0.625 µm resolution, ≤2 µm repeatability, max speed ≥2.5 mm/s. **Justification:** As discussed in the pre-bid meeting, the intent of the Z-axis specification is to accommodate thicker samples which we can accomodate. Continuous 25 mm motorized Z travel is not required for lithography operation, provided functional clearance for thick substrates is ensured.	**M/s. Photik Scientific Pvt. Ltd.**	As per the tender specification, it is mandatory for the system to have Z- axis movement to enable patterning on thicker substrates with varying substrate thickness up to 20 mm. Therefore, a motorized Z-axis lift mechanism is required to ensure proper focusing and precise patterning across different substrate thicknesses.
2.	**Page No. 09, Sr. No. 08** **Objectives Configuration (10X / 5X / 2.5X)** **Current Specification:** **Interchangeable objectives: 10X / 5X / 2.5X**	**Proposed Clarification:** Kindly specify whether: All objectives (10X, 5X, 2.5X) must be quoted as part of the standard/main system supply, or One objective may be supplied as standard and remaining objectives can be quoted as optional accessories.		As per the tender specification it is mandatory to quote all the microscope Objectives (10X / 5X / 2.5X) with the base system to achieve all the Necessary features size.

		Justification: This clarification will allow bidders to submit technically aligned and commercially accurate offers. These revisions reflect the actual application requirement discussed during the pre-bid meeting and will ensure fair technical evaluation based on functional performance rather than fixed mechanical values.		
3.	**Page No. 09, Sr. No. 05** **Maximum Substrate Thickness : up to 20 mm**	We offer max. 5mm	**M/s. Global Marketing Services**	As per the tender specification (Page No. 09, Sr. No. 05), it is mandatory to meet the required maximum substrate thickness of up to 20 mm. We will be using different types of substrates such as Glass, 3D printed sheets in addition to Silicon (Si) wafers. Therefore, compliance with the specified substrate thickness is essential to accommodate various substrate materials.
4.	**Page No. 09, Sr. No. 06** **Minimum feature size: 1.5 µm or smaller**	Mir. feature 2µm		As per the tender specification, the system should support a feature size of 1.5 micron or less.
5.	**Page No. 09, Sr. No. 12** **Light Source: LED only**	Laser 405 nm		As per the tender specification, the system is required to have an LED-based writing source to enable a faster lithography process.
6.	**Page No. 10, Sr. No. 15** **The motorized Z-lift should have the following specifications:** **• Motors: stepper**	• 5 mm range • 0.3 µm resolution		No change. Z-stage specifications must meet or quote better

	• **Working range: 25 mm or better** • **Resolution: 0.625 µm or better** • **Repeatability: 2 µm or better** • **Maximum working speed: 2.5 mm/s or better**	• 2 µm repeatability • Speed 3.3 mm/s	**M/s. Global Marketing Services**	
7.	**Page No. 10, Sr. No. 18** A computer of following major specification. • Processor: 2 X Intel® Xeon® 6520P Processor(24C/48T,2.40G Hz,144M,210W) • Chipset: Intel® C741 Chipset • RAM: 4x 32 GB(Total 128GB) ECC 6400MHz DDR5 RDIMM (Max 16 DIMMs) • SSD: 1 X 960 GB SATA 2.5" SSD • HDD: 1 X 4 TB SATA 3.5" 7.2K HDD • GPU: 1 X NVIDIA RTX A1000 (8GB) • NIC (Onboard): Dual Gigabit Ethernet LAN Ports • AOC: Dual 10GbE Ethernet LAN Ports • Expansion Slot: 3 x16 PCIe5.0(CPU0), 3 x16 PCIe5.0(CPU1) • Management: IPMI 2.0 with virtual media over LAN and KVM-over-LAN support • Ports: 2x USB 3.1 Gen1 (Rear), 1x VGA, 1x dedicated RJ45 Management • Security: Trusted Platform Module • Chassis: Tower Chassis (8 x 3.5î/2.5î(SAS/SATA) Hot Swappable Bays) • P. Supply: 1200W Single Platinum Level Certified Power Supplies	Not necessary, software runs on a laptop. We can extra PC if required.		As per the tender specification, A computer of following major specification as mentioned in tender is required for data processing and downstream work as it will be part of a microfluidics development facility.

8.	**Page No. 10, Sr. No. 16, Software for external interfacing and control**	The system we will offers has an integrated control interface for the lithography module, while the XY and Z stages are operated through a dedicated stage control software. The microscope and motorized stages are operated from a single control environment, and the XY and Z stages are controlled through the same stage software. We humbly request you to consider our specification.	**M/s. Trokut Solutions Pvt Ltd.**	No change. A single dedicated software environment for lithography control and stage interfacing is required.
9.	**Page No. 10, Sr. No. 17, Suitable Mask design software**	The tender mentions the requirement for suitable mask designing. Our system does not require any specific mask-designing software. The system must not be restricted to any specific design software and must be able to use design files in JPG, PNG, and BMP formats. All necessary calibration is handled automatically by the system. Therefore, we kindly request modification of the clause to allow uploading of common image formats as the accepted method for mask designing.		No change. System must be supplied with mask design software supporting multiple industry- standard formats and not limited to image files.
10.	**Page No. 10, Sr. No. 21, The vender should have prior successful installation of similar systems at premier Indian Institutes like IITs and IISERs. We may seek feedback from the existing users during the**	Please add world-wide reference to this clause as eligible criteria. We will provide: 1. List of published research papers 2. List of end-users 3. Awards and recognitions 4. Reference letters from end users.	**M/s. Trokut Solutions Pvt Ltd.**	No change. Prior successful installation at premier Indian Institutes (IITs/IISERs) is mandatory as per tender specification.

	technical evaluation.	You may seek feedback from the existing users during the technical evaluation.		

All prospective/willing bidders are requested to take note of this report as part of the Tender document. All other terms and conditions of the tender remain unchanged.

13/02/26

Assistant Registrar (MMS)

सहायक कुलसचिव
(सामग्री प्रबंधन विभाग)
Assistant Registrar
(Materials Management Section)