



भारतीय प्रौद्योगिकी संस्थान भिलाई  
जी.ई.सी. कैंपस, सेजबहार, रायपुर - ४९२०१५  
छत्तीसगढ़, भारत

Indian Institute of Technology Bhilai  
G.E.C. Campus, Sejbahar, Raipur - 492015  
Chhattisgarh, India

IITBh/Goods/CIF/2021-22/125

Date: 22.10.2021

CORRIGENDUM-1

It is notified to all concerned parties that with reference to our Tender No. IITBh/Goods/CIF/2021-22/125 dated 29.09.2021 for the "Supply and Installation of Maskless Photolithography with UV Direct Laser Writer at IIT Bhilai", the following changes are made in the tender document:

Addition or Changes in the Technical Specifications of "Supply and Installation of Maskless Photolithography with UV Direct Laser Writer at IIT Bhilai". The remaining technical specifications were not accepted for further change.			
S.No.	Page No./Section Features/ (Clause)	Detailed specification of the features	
		Existing	Clarification/ Amendment
1.	Page-15, S. No.-2	Light source: Lasers or LEDs with wavelength 375 nm and 405 nm. Wavelengths and power should be capable of writing on standard positive and negative photoresists with thickness upto 150 $\mu\text{m}$ or maximum. Automatic dose control. A lifetime of light source > 10000 hours. Bidders should also mention the light source power.	Light source: lasers or LED with wavelength 375 (or 365 nm) and 405 nm. Wavelengths and power should be capable of writing on standard positive and negative photoresists with thickness upto 150 $\mu\text{m}$ or maximum. Automatic dose control. A lifetime of light source > 10000 hours. Bidders should also mention the light source power.
2.	Page-15, S. No.-4	Substrate stage: should be fitted with substrate adaptors and vacuum chuck to accommodate various substrate sizes mentioned above. Adaptors and vacuum chuck should be able to handle flexible substrates. Motorized stage travel in x, y, z, direction should be sufficient to handle the maximum substrate size mentioned above with very good resolution ( $\leq 10$ nm), repeatability ( $\leq 100$ nm) along x and y axis in a clean room with stable temperature. An appropriate vacuum pump should be provided. Stage system should have very good frictionless	"Substrate stage: should be fitted with substrate adaptors and vacuum chuck <u>or ground glass wafer chuck</u> to accommodate various substrate sizes mentioned above. Adaptors and vacuum chuck <u>or ground glass wafer chuck</u> should be able to handle flexible substrates. Motorized stage travel in x, y, z, direction should be sufficient to handle the maximum substrate size mentioned above with very good resolution ( $\leq 10$ nm), repeatability ( $\leq 100$ nm) along x and y axis in a clean room with stable temperature. An appropriate vacuum pump should be provided <u>for vacuum based chuck</u> . Stage system should have

		bearings and linear encoder position control.	very good frictionless bearings and linear encoder position control.
3.	Page-15, S. No.-6	Alignment: Camera based automatic alignment for top side with very good alignment/overlay accuracy ( $\leq 0.25 \mu\text{m}$ ) with the help of appropriate technique such as laser interferometer or other mechanical system. System should be capable of back side alignment with sufficient accuracy. Bidder should mention the accuracy of top and back side alignment. (please mention the accuracy).	Alignment: Camera based automatic alignment for top side with very good alignment/overlay accuracy ( $\leq 0.5 \mu\text{m}$ ) with the help of appropriate technique such as laser interferometer or other mechanical system. System should be capable of back side alignment with sufficient accuracy. Bidder should mention the accuracy of top and back side alignment. (please mention the accuracy).

All other terms and conditions of the tender remain unchanged.

  
 Deputy Registrar २२/०९/२१  
 Stores & Purchase