



IITBh/Goods/Phy/2021-22/140

Date: 17.11.2021

CORRIGENDUM-1

It is notified to all concerned parties that with reference to our Tender No. IITBh/Goods/Phy/2021-22/140 dated 03.11.2021 for the "**Supply and Installation of Probe Station at IIT Bhilai**", the following changes are made in the tender document:

Microscope			
	Tendered		Revised/clarification
Zoom ratio	6.7 : 1 (100x magnification) trinocular stereo zoom microscope		6.7 : 1 (100x magnification) trinocular stereo zoom microscope or equivalent
Zoom Range	0.75x - 5x		0.75x - 5x or better
Magnification range	15x - 100x		15x - 100x or better
Working Distance	>100 mm		>100 mm or better
Digital camera with power supply			
CMOS color Sensor	IR cut filter is required, Format 1/2 inch, Pixel size H: 3.2 μ m, V: 3.2 μ m, 2,048x1,536 (3.1 MP), Shutter 1/10,000 s to 4 s (controllable for software). These are the minimum specifications.		CMOS/CCD or equivalent color sensor IR cut filter is required, Format 1/2 inch, Pixel size H: 3.2 μ m, V: 3.2 μ m, 2,048x1,536 (3.1 MP), Shutter 1/10,000 s to 4 s (controllable for software). These are the minimum specifications.
Sample chuck			
Chuck	100 mm (4 inch wafer) diameter vacuum or mechanical clamping, round, HF, ambient, thermal and custom. Nickel plated steel with concentric vacuum rings (standard), other materials available.		100 mm (4 inch wafer, minimum) diameter vacuum or mechanical clamping, round, HF, ambient, thermal and custom. Nickel plated steel with concentric vacuum rings (standard), other materials available.
Manipulator and z-stage details			
Manipulators	4 pcs of manipulators with magnetic bases, face plates and coaxial probe arms		4 pcs of manipulators with magnetic bases with on/off switch, face plates and coaxial probe arms

Travel Range of motion	X: 8 mm; Y: 8 mm; Z: 8 mm; TPI: 50 TPI	X: 12 mm; Y: 12 mm; Z: 12 mm; TPI: 80 TPI (0.0125 inch per turn)	
Optical fiber mounting	Each manipulator should be capable of hosting an optical fiber so that an external illumination can be impinged on the selected device.	XYZ manipulatable (5 mm travel in each direction) fiber mount is required so that a selected device under examination can be illuminated.	
Electrical details			
Coaxial cables	4 pcs for four probes with 2 m coaxial cables each. One end terminated near the clamping collet. The other end is terminated with a BNC coaxial connector (male).	4 pcs for four probes with 2 m coaxial cables each. One end terminated near the clamping collet on the probe manipulator. The other end is terminated with a BNC coaxial connector (male).	
Probe tips	Tungsten, straight/ 'Z' bend of suitable length, tip diameter 5 um, 1 um, 0.7 um. 100 pcs shall be supplied for each category. Gold plated spring test probes compatible with the micropositioners/manipulators should be supplied (Dia: 1.8mm, numbers: At least 2 sets (4 x 3 = 12 pins))	Tungsten, straight/ 'Z' bend of suitable length, tip diameter 5 um, 1 um, 0.7 um. 100 pcs shall be supplied for each category. We also need gold coated spring loaded test pins (with a probe diameter of 1.8 mm, length near about 25 mm/or suitable) so that they can be mounted on the micropositioners/manipulators. These pins essentially replace the tungsten straight/ Z bent tips when required. Quantity required: 12 pins.	
Dark Box (optional item)	Suitable sized dark box to fit the microscope and probe station together. It shall be made up of aluminum with a single door opening towards roof.	Dark box (now part of the main system, not an optional item)	Suitable sized dark box to fit the microscope and probe station together. It shall be made up of aluminum with a single door opening towards roof.
		System upgradability	1) System should be field upgradable to high frequency measurements and larger sized chuck in future. 2) System should be field upgradable to semi-automatic and automatic probe station in future.

		Supporting documents for all the specifications shall be given.
Delivery	8-10 weeks	12-16 weeks
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All other terms and conditions of the tender remain unchanged.


 Deputy Registrar 17/11/24
 (Stores & Purchase)

