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CORRIGENDUM-1

Tender Ref No	IITH/MAE/CPRAKASHJ/2024/G/T030
Tender ID	2024_IITH_820778_1
Name of Tender	Nd YAG Laser with Accessories
Reason of Corrigendum	Addition Technical Specifications

Addition Technical Specifications

Pulsed Laser

DPSS Nd: YAG Q-switched laser
Wavelength: 1064nm
Pulse Energy at 1064nm: more than 50mJ
Pulse Repetition Rate: Upto 20Hz
Pulse Duration: 6-10 ns
Beam Divergence, mrad: <=3,0 mrad
Polarization: Linear
Motorized attenuator
System control from external PC via USB interface Software.
Software should be included
Future Upgrade Option: Possibility of further addition of SHG module (532nm output)

Accessories:

a. Energy Sensor

Spectral Range: 400-2000
Minimum Pulse Energy: 200 µJ
Maximum Pulse Energy: 10 J
Maximum Frequency: 250 Hz
Maximum Average Power: 25 W
Maximum Average Power Density: 200 W/cm²
Maximum Pulse Width: 20 ms
Damage Threshold (2 ms): 60 J/cm²
Diffuser: Yes

b. PC Based USB Energy Meter Interface

Thermal Sensor Compatibility: Yes
Photodiode Sensor Compatibility: Yes
Pyroelectric Sensor Compatibility: Yes
Beam Track Sensor Compatibility: Yes
Power log period: 1seconds to Unlimited
Data Transfer Rate: 10,000 Hz
Timing: resolution 1µs

c. Software

Plug & Play Energy & Power Measurement software

d. Laser Safety Goggle

Visible Light Transmission: 26%
OD 7+ @ 190-534 nm
OD 5+ @ 850-1,100 nm
OD 7+ @ 1,064 nm

e. Optical Beam Splitter Element

Element Type: Window
Material: Fused Silica
Size [mm]: 25.4
Aperture [mm]: 22
Thickness [mm]: 3
Coating: AR/AR coating
Wavelength [nm]: 532nm
Beam Mode (SM/MM): SM or MM
Number of Spots: 10 Separation
Transmission efficiency: Close to 100%

f. Mounting Assembly

a. Kinematic Mount
Optics Size: 25mm
Optics thickness: 6mm
b. Optical Post assembly for mounting on Optical table
12mm Optical post with suitable mounting setscrew for mounting kinematic mount
Pedestal Post Holder
Pedestal Fork with suitable pedestal adapter to a breadboard or optical table.