



INDIAN INSTITUTE OF TECHNOLOGY BOMBAY
MATERIALS MANAGEMENT DIVISION
Powai, Mumbai - 400076

Technical Specifications of

“High Performances Laser Source emitting at 532 nm and 266 nm, along with suitable power supply and thermoelectric cooling”

RFx No. 6100000885 (Reference No. 1000020205)

1	WAVELENGTH	266 nm and 532 nm (One output at a time)
2	REPETITION RATE	5 kHz or higher for both 266 nm and 532 nm
3	PULSE DURATION (FWHM)	0.6 ns (similar for both 266 nm and 532 nm)
4	OUTPUT POWER	2 mW or higher for 266 nm, 8 mW or higher for 532 nm
5	OUTPUT ENERGY	0.3 μ J or higher at 266 nm, 1.5 μ J or higher at 532 nm
6	PEAK POWER	0.5 kW or higher at 266 nm, 2.5 kW or higher at 532 nm
7	LONG TERM (6HRS) POWER STABILITY	Drift smaller than 5%
8	POLARIZATION	Linear , Polarization Extinction Ratio (PER) greater than or equal to 20 dB
9	SUITABLE TABLE TOP POWER SUPPLY	Input voltage : AC 100 to 240V Input voltage fluctuation: 5% or lower Mains frequency: 60 Hz / 50 Hz
10	SUITABLE THERMOELECTRIC COOLER	Temperature stability: Temperature variation 0.1°C or less
11	SUITABLE OPTICAL MODULE TO SEPARATE THE TWO WAVELENGTHS	Necessary filter system and mounting posts, to select each wavelength, should be provided, if this feature is not built in the module.