



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

Ref. PR No. 1000050292

Rfx. No. 6100002430

Item Description – **Correlated Photon-Pair Source (Qty: 1 Nos)**

Sr. No	Detailed Technical Specification	Technical Compliance (Yes / No)	Additional Information (if any)
1.	1. 810 nm Correlated Photon-Pair Source with >450 kHz Photon-Pair Generation Rate 2. Operating Wavelength 810 ± 2 nm 3. Heralding Ratio, $\eta_{si\ a,b} > 0.45$ 4. Max Coincident Pairs/Seconds >450 kHz 5. Wavelength Stability ± 2.5 nm 6. Photon Bandwidth ~ 10 nm 7. Wavelength Tuning Range None $g(2)(\tau = 0) \leq 17$ dB 8. Lifetime >2500 Hours of Pump Emission 9. Pump Laser Power Up to 150 mW 10. Input Voltage 100 - 240 V Frequency 50 - 60 Hz 11. Power Consumption 25 W (Max) 12. Interface RS232 Serial 13. Room Temperature 18°C to 25°C 14. Storage Temperature -10°C to 60°C 15. Humidity Non-Condensing 16. Dimension: From Top View, Width 6.47 inches approx. From Side View, (Length 10.29 X Height 2.49) inches approx. 17. Warranty: 90 days		