



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

Ref. PR No. 1000051735

Rfx. No. 6100002851

Item Description: **Optical Spectrum Analyzer (Qty-1)**

Sr. No	Detailed Technical Specification	Technical Compliance (Yes / No)	Additional Information (if any)
1.	• Wavelength range: 350–1200 nm		
2.	• Wavelength accuracy: ± 0.05 nm @ 633 nm; ± 0.2 nm (400–1100 nm)		
3.	• Resolution (RBW): 0.1–5 nm; Sampling points: 101 to >200,000		
4.	• Input level range: +20 dBm to –70 dBm; Max safe input: +20 dBm		
5.	• Level accuracy: ± 1 dB; Linearity: ± 0.2 dB; Dynamic range: ≥ 45 dB		
6.	• Applicable fibers: SM 9.5/125; MM GI 50/125 & 62.5/125; large-core up to 800 μ m		
7.	• Built-in source: Alignment / wavelength calibration (–L1 required)		
8.	• Interfaces: LAN, USB, GP-IB, VGA; Trigger in/out; Analog out		
9.	• Display & storage: Integrated display; ≥ 512 MB internal storage		
10.	• Power: 100–240 VAC, 50/60 Hz		
11.	• Built-in analysis: spectral width (threshold/envelope/RMS/peak-RMS/notch), WDM/OSNR, filter peak/bottom, DFB-LD/FP-LD/LED, SMSR, color analysis; PC viewer/remote software should be included		

12.	<ul style="list-style-type: none"> • Scope of supply (minimum): Main unit with –L1 and India power cord (–B), factory test report, calibration certificate (traceable), viewer software, user manuals, on-site installation & basic training (1 day). 		
13.	<ul style="list-style-type: none"> • A comprehensive warranty should be provided for a period of one (1) year from the date of commissioning. 		

Terms and Conditions:

1) Eligibility:

- a) The supplier should provide the machine of make Yokogawa or substantially equivalent.

2) Installation, Training and Documentation:

- a) The supplier should be responsible for the complete installation and commissioning of the system.
- b) The supplier should provide comprehensive one (1) day on site training (Operation, best practices) included at no extra cost.
- c) The supplier should provide factory test report, calibration certificate (traceable), user manuals, and PC software/licenses.

3) Acceptance:

- Acceptance will be completed after:
 - a) Delivery of the system in good condition.
 - b) Successful installation & demonstration (scan, wavelength/level checks, data export/remote control).
 - c) Handover of all required certificates, manuals, and software/license keys.

6) Compliance & Safety:

- a) RoHS compliance and applicable electrical safety conformity; country-of-origin to be declared.

7) Payment Terms:

- a) 100% payment shall be made within 30 days by ICICI Foundation on behalf of IIT Bombay after successful delivery and installation at the specified location.
- b) Delivery Location: BETIC Lab, IDC-Hill side road, IIT Bombay, Powai, Mumbai - 400076