

Technical Specificaion for

HIGH RESOLUTION SOURCE OPTICAL ANALYZER

| HIGH RESOLUTION SOURCE OPTICAL ANALYZER | | |
|---|---|---|
| A. <u>Spectrum Analyzer Specifications</u> | | |
| 1 | Wavelength Measurement Range: | 1530 nm – 1600 nm |
| 2 | Wavelength Span Range | 8 pm to 70 nm |
| 3 | Wavelength Resolution | 5MHz/0.04pm |
| 4 | Wavelength Absolute Accuracy | +/- 3 pm Max |
| 5 | Measurement Level Range | -75 dBm to +10 dBm |
| 6 | Optical input | FC/PC for SM fibre (FC/APC for PM fiber inputs) |
| 7 | Internal calibrator | Required |
| 8 | Display: X scale | Wavelength in nm or frequency in GHz |
| 9 | Display: Y scale | Optical power in mW or dBm |
| B. <u>Tunable Laser Source Specifications</u> | | |
| 1 | Wavelength Range | 1530 nm – 1600 nm |
| 2 | Spectrum line width (@ 3 dB) | ≤ 500 KHz |
| 3 | Output power | Around -5 dBm (+/- 1 dB) |
| 4 | Connector type | SM fibre FC/APC connector |
| 5 | Wavelength stability | ≤ +/- 10 pm over 1 hour |
| C. <u>Other Specifications</u> | | |
| 1 | Tracking generator function for component transmission and reflection measurement | Required |
| 2 | Two independent Optical Spectrum Measurements with the 2 PM inputs. | Required |
| 3 | Spectrum domain measurement | Intensity, Phase |
| 4 | Time domain measurement | Intensity, Phase, Chirp, Constellation, Intensity or phase eye diagrams |
| 5 | Group Delay and Chromatic Dispersion Analysis | Required |
| 6 | Automatic clock detection | Required |
| D. <u>Comb Laser Specifications</u> | | |
| 1 | Wavelength Range | 1530 nm – 1600 nm |
| 2 | Carrier Spacing | 100 MHz |
| 3 | Maximum Average Output Power | +13 dBm |
| E. Supplier should provide technical compliance including explanations without fail against each point given in the technical specifications for consideration of the offer. | | |
| F. Power requirement: As per Indian electrical standards (230V AC, 50 Hz) | | |
| G. Warranty: Standard warranty for 1 year from the date of installation. | | |
| H. Parent company should be an established company with good number of installations (at least 20) and after sales support in India as well. | | |
| I. Standard configurations will be required. NO CUSTOM BUILT SYSTEMS WILL BE ENTERTAINED. | | |

(Note: It is mandatory for the bidders to provide the compliance statement in tabular column format along with catalogue page number (comply/not comply) for the Above points with document proof as required. Failing which bidders will be technically disqualified