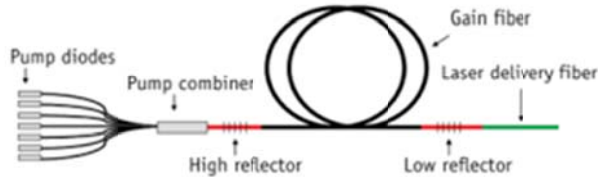


DEVELOPMENT OF SEED LASER DIODE PUMP ASSEMBLY

As a technology oriented company we started laser diode assembly which is required for development of fiber laser. Our Assembly consisting of following modules.

1. Fiber Coupled Laser Diode (FCLD) Assembly
2. Compatible dc operated water cooled Laser Diode Driver (LDD) Assembly

Typical Fiber Laser Configuration



Brief Specifications of Fiber LAsEr:

S N	Parameters	Value
1.	CW Output Power (Watt)	: ≥ 500
2.	Centre Wavelength (nm)	: 976 ± 3
3.	Spectral Width - FWHM (nm)	: ≤ 7
4.	Fiber core diameter (μm)	: 200 (Typical) or 220 (Typical)
5.	Fiber cladding diameter (μm)	: 220 (Typical) or 240 (Typical)
6.	Numerical Aperture (NA)	: ≤ 0.22
7.	Electrical-to-Optical Efficiency (%)	: ≥ 45
8.	Operating Current (A)	: 20-35 (Typical)
9.	Operating Voltage (V)	: 35-65 (Typical)
10.	Wavelength shift with temperature ($\text{nm}/^\circ\text{C}$)	: ≤ 0.4
11.	Operating Case Temperature ($^\circ\text{C}$)	: $\sim 25 \pm 5$
12.	Pigtailed Fiber Length (m)	: ≥ 1.5
13.	Fiber Termination	: Bare
14.	Feedback Isolation Wavelength Range (nm) Isolation (dB)	: 1060 – 1100 : ≥ 15