

## Specifications for He-Cd Laser (325 nm)

- Laser should give output power of 50 mW in TEM<sub>00</sub> Mode (essential).
- Beam diameter at  $1/e^2$  must be  $\leq 1.3$  mm.
- Beam divergence should be  $< 1$  mrad.
- Beam pointing stability should be  $\pm 25$   $\mu$ rad at 25°C constant temperature.
- Power stability at 25°C must be less than 3% (for 3 to 4 hours).
- Suitable environmental condition for operation would be in the temperature range of 10 to 40°C and humidity  $\leq 90\%$ RH.
- Preferred environmental condition for storage would be in the temperature range of 10 to 50°C and humidity  $\leq 90\%$ RH.
- Peak-to-Peak Noise at 30kHz~2MHz should be less than  $< 15\%$
- Noise (RMS) at 30kHz~10MHz should be less than  $< 5\%$
- Laser class must be in 3B
- Laser life should be at least 2000 hours.
- Laser should operate with air cooling.
- A list of references in India, where similar systems have been installed, must be provided and will be the main criteria for decision making (preferred more than 25).