Technical specification for LIDAR (Light Detection and Ranging)

Sr. No.	Specification
3.	**Technical Specifications:** ● Class I Laser not requiring protective eyewear during operation ● Wavelength of the laser must be absorbable by water ● Measuring at least 300,000 points/second ● At least 100 m range ● At least 16 channels ● Range accuracy less that 4 cm ● Field of view (horizontal x vertical) 360° x 20°-30° or more ● Angular Resolution (Horizontal/Azimuth): 0.1° – 0.4° ● Vertical angular resolution less than 2° ● ROS (Robot Operating System) support must be included
	Warranty: Standard warranty for 1 year and extended warranty as optional for 2 additional years
	Operating Manual: ● Both electronic and hard copy ● The documentation/manual shall include all drawings, schematics, spare parts, catalogues and sub-vendor's manuals
	Installation: ● The system shall be installed/commissioned at the customer site. The quotation shall be inclusive of all charges, if any, for installation and commissioning of the equipment by the vendor. ● Extensive operation, integration and maintenance training for two persons for one week at the customer site during and after the installation should be included. ● Vendor needs to confirm the suitability of the system offered to be able to upgrade this facilities on-site
	Eligibility Criteria: ● Vendor shall provide a list of at least 2 customers (India and abroad) of similar systems along with email addresses, where similar systems have already been installed as a part of the technical bid. ● An authorized service center in India should be available, functioning for minimum of 2 years to provide repair, maintenance, calibration and upgradation facility. ● The OEM can identify bid or an authorized bidder of OEM can participate in the tender.