

TECHNICAL SPECIFICATIONS AND OTHER ALLIED REQUIREMENTS

Sl No.	Description of items	Quantity
PUR/121/R&A/AP/E/2020-21		
01.	Multiport-cum-Long Range Fast Laser Sensing Units for Obstacle Avoidance in Field Applications (Details specifications are as per ANNEXURE-A)	10 Nos.

1. INSTALLATION/COMMISSIONING

1.1. NOT APPLICABLE

2. WARRANTY

2.1. 02 Months from the date of acceptance of ordered goods.

ANNEXURE - A

Multiport-cum-Long Range Fast Laser Ranging Units for Obstacle Avoidance in Field Applications

Technical Specifications:

A. Laser Source Requirement:

- Laser Type: Class - I
- Laser Wavelength: 905 nm
- Laser Power: Mean - Less than 100 mW, (Maximum 25 W)
- Laser Beam Angle of Divergence: Less than 0.5°

B. Range Requirement:

- Detect Natural Targets upto 100 meters (from unit vicinity)

C. Resolution Requirement:

- Selectable over 0.05 meters through 0.2 meters
- Accuracy Upto: ± 0.1 m

D. Data Update Rate Requirement:

- Minimum 12000 readings per second

E. Power Requirement:

- Less than 3 W
- Operational Voltage: 4VDC- 6 V DC (Max 10 V DC)

F. Electrical Communication:

- Connections: Plug & Socket, Micro USB
- RS-232 / RS-485 / USB, Analog Voltage

G. Operating Temperature:

- ~~Minimum~~ 35°C

H. Mechanical Features:

- Light Weight, and Small Form Factor

Amritanshu
30/7/2020

NA
31/07/2020