

Technical specification for Inertial Measurement Unit (IMU)

Sr . No .	Specification
1.	<p>Technical Specification: A MEMS based sensor unit capable of measuring accelerations and angular velocities in three orthogonal directions, magnetic compass and positioning using GPS</p> <ul style="list-style-type: none"> ● Must include an inbuilt filter to fuse the measurements to provide accurate estimates of orientation, position and velocities. ● Roll/pitch accuracy 0.1°. ● On-board GPS accuracy <1.5m ● Velocity accuracy 0.03 m/s ● Heave accuracy 5 cm ● Accelerometer range: + or - 8 g or more ● Gyroscope range: + or - 300°/sec or higher ● Magnetometer: + or - 50 Gauss or more ● ROS (Robot Operating System) support must be available ● Output rate 200 Hz or more
	<p>Warranty: Standard warranty for 1 year and extended warranty as optional for 2 years</p>
	<p>Operating Manual:</p> <ul style="list-style-type: none"> ● Both electronic and hard copy ● The documentation/manual shall include all drawings, schematics, spare parts, catalogues and sub-vendor's manuals
	<p>Installation:</p> <ul style="list-style-type: none"> ● 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 and maintenance training for two persons 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
	<p>Eligibility Criteria:</p> <ul style="list-style-type: none"> ● 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.