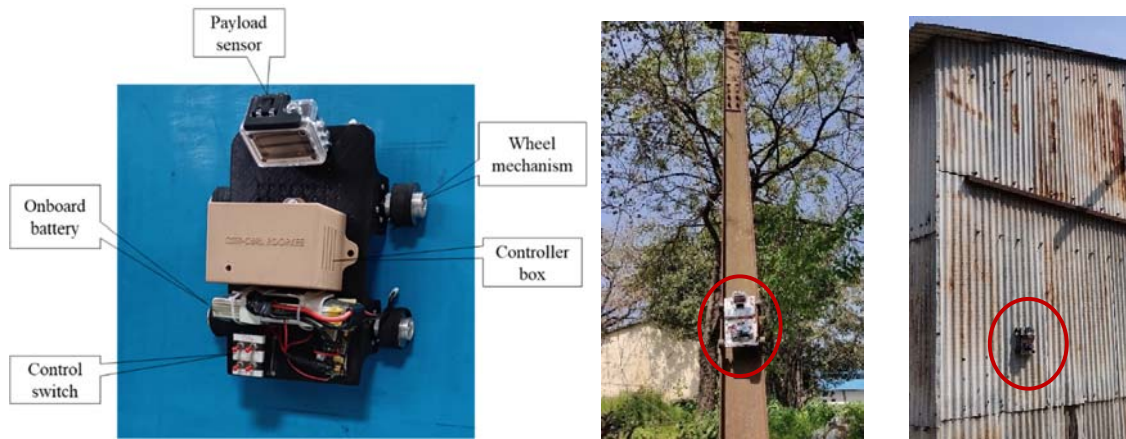


Autonomous Climbing Robot



Field Trials of Autonomous Robot

Application	<ul style="list-style-type: none"> • For autonomous visual inspection of large vertical/ inclined ferrous wall surface • Other applications will be non destructive testing of structures by mounting sensors, painting and cleaning at unreachable locations of steel structures
Salient Features	<p>Weight : 5.0 Kg. Payload : 5.0 Kg. Speed : 10.0 m/min (Max.) Drive motors : Brushless DC motors Power supply : On-board Li-ion Batteries Processor : ATmega microcontroller Communication: Wireless XBee/RF Module</p>
Technology Package	Detailed manufacturing drawings, Fabrication procedure and assembly guideline of mechanisms, Specifications of standard components, Control algorithms and Operating instructions
Production Cost	Rs. 0.75 lakh (Main Unit)
Scale of Development	Prototype developed and field trials conducted for autonomous visual inspection and structural health monitoring using wireless sensor
Status of Commercialization	Under Process
Raw Materials	Standard Steel and Aluminum Sections, DC motors, Electronic items and on-board power systems and payload sensors
Plant, Equipment and Machinery required	General Fabrication Workshop and Electronic Facility
Environmental Aspects	Environment friendly and User safety
IPR Status	Patent filed
Photographs / Videos	Please visit: https://youtu.be/BuSWhyhbEdq