

RoVeR: Remotely operated vehicle for army



A remotely operated ground vehicle (RoVeR) was designed and developed for use in counter terrorism and counter-insurgency operations by the Indian Army.

The RoVeR can traverse difficult terrain, extreme slopes, inspect suspicious objects (e.g. improvised explosive devices) with a robotic arm (even when hidden under a bridge) and give visual feedback to an operator away at a safe distance of 0.5 km.

Features

- Inspect suspicious objects
- Give visual feedback
- Lift 20 kg objects at 3 m from front edge of chassis
- Wireless control at 0.5 km outside line of sight
- Climb 12 inch steps
- Remotely operated water canon and shotgun attached to arm

Advantages

- Half weight compared to imported rover of similar capability
- Robust (patented) arm design no jamming
- Able to reach below culvert unique for any rover
- Easily attachable counter weights achieves the conflicting requirements of low vehicle weight, high weight lifting capability and stability with swivelling arm

Application

- Remote inspection of suspicious objects
- Removal of suspicious objects to safe location
- Remote destruction / disposal of improvised explosive devices

Status

- Successful field trials by the Indian Army under harsh operating conditions
- Handed over to the College of Military Engineering, Pune for use by the Army

