



# Security Defence Systems

Plot No. 50, DIC, Industrial Area , Baddi, Solan (H.P)

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## ROVER MARK- III



MODEL : ROVER MARK - III

### INCLINE ASCENT/DECENT

The ROV is able to ascend/descend a slope of a minimum of 45 degrees.

### GENERAL SPECIFICATION

The ROV is having the following key technical features:

1. Platform Dimensions: Able to fit through an aperture measuring (H x W) of (720MM x 680MM) or (28.35"x26.77")
2. Overall Weight (platform): max 100lb (45.4 kg) to allow the platform to be two-man-portable.
3. Overall Weight (platform, OCU & transit container): max 150lb (68.1kg) to allow complete system to be loaded/transported prior to deployment.
4. Running Gear Tracks: min 4"width (10cm) wheels are off road capable, min 4"clearance from base.
5. Packing container: provision of packing container for protection of system components, box able to contain both platform/OCU.
6. Tools: ability to attach tools (including disruptor) to the arm.
7. Firing systems: two independent firing circuits.
8. Lights: sufficient light systems to operate in the dark.



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## COMMUNICATION FEATURES

1. Operating System: Ability to change frequency setting dependent on the environment conditions at the time of operating.
2. Communications:
  - a. Ability to control the platform via the operational control unit (OCU) at a distance of at least 200mtrs.
  - b. Ability to allow multiple platforms to be operated from the same incident control point (ICP)

## MANIPULATION FEATURES

1. Shoulder rotation of no less than 200 degrees of rotation.
2. Elbow rotation of no less than 180 degrees.
3. Ability to lift a weight of no less than 10lb(4.6kg) fully extended (min two feet arm range from the front of the rov) or 25lb(10.5kg) when retracted.
4. Continual wrist rotation of the manipulator (gripper) assembly.
5. Manipulator assembly able to open to minimum width of 5”(12.7cm)

## CAMERA FEATURES

**Multiple Cameras:** A minimum of 3x camera system mounted on to the platform, front and back side covered.

- a) **Front camera:** minimum 120 degree view ability, fixed or movable
- b) **Pan/Tilt Color Camera:** provision of color imagery to OCU via 100 degree tilt and 180 degree pan abilities, has pan/tilt capability for target assessment & RSP

## ENVIRONMENTAL PERFORMANCE

1. **Incline Ascent/Descent:** able to ascent/descent a slop of min 45 degrees without affecting performance.
2. **Curb ascent/descent:** able to ascend/descend over a curb height no less than 4” (10cm) without impending performance.
3. **Mobility:** ability to operate in an area containing loose sand to depth between 2” & 4” (5-10cm) without impending performance.
4. **Endurance:** ability to operate for a duration not less than 60 mins (constant) & 2 hrs. intermittent (with operation cycles in total).
5. **Vulnerability:** ability to operate within an environment which contains sand/dust particles.

## COMMAND CONTROL

- Radio Control
- Color Screen