

## Highlights of Quad-rotor based Aerial Radiation Monitoring System (QARMS)

- Quick and remote source search operation and small area contamination monitoring
- Auto search and localisation of 'orphan sources'
- Intuitive windows based GUI
- Auto navigation with pre-defined scanning path
- Optimized scanning path of user specified area
- Endurance : 30 minutes
- Flight Speed (with payload) : 10 m/s
- Range: 1.6 km (Line of Sight)
- Weight: 2.5 kg
- Pay Load: 0.5 kg
- Auto take off, land and Hover at different altitude
- Failsafe action (Back to home) on low battery and loss of communication
- 1GBq is the minimum detectable activity for Cs-137 point source when flight height at 10 meter altitude with a speed of 5m/s