

# MOBILE RADIOLOGICAL ASSESSMENT LABORATORY

- During any emergency situations real-time radiation measurements and the fast analysis of the measured radiological data are of crucial importance.
- RAL is equipped with several high sensitive detectors/systems such as NaI(Tl) gamma spectrometers, large size plastic scintillators and air-sampler, along with GPS and data transfer capability through GSM modem.
- Can be used in different radiation emergency scenarios, such as the release of radioactive materials from a radiological / nuclear incident, during search of an orphan source or during radioisotope transportation .

## Systems in the RAL platform:

The installed systems in the vehicle are classified on the basis of distinct operational systems.

- **Mobile Gamma Spectrometry Systems (MGSS)**
- **4 Plastic Scintillators detectors**
- **In Built Radiation Monitoring System**
- **Alpha/Beta Continuous Air Monitor**
- **Personal Protective Equipments, Decontaminations agents**

RAL is designed to carry the Personal Protective Equipments for 5 persons, Dosimeters, Radio-isotope Identifiers, Portable Contamination monitors etc. required during response to any kind of emergency.

- **The mobile laboratory** has multiple choices among power systems of 12 V DC and inverter to provide 230 V AC from the pairs of Car battery.

