1. **Introduction.** Robotic Surveillance Platform.

2. **Background.** Security Forces (SF) as a whole and Rashtriya Rifles in particular will be facing the threat in the Built Up and Super Built Up Areas in future, Robotic Platforms will prove to be a game changer.

3. **Broad Qualitative Regmts.** RR Directorate sought a Robotics Surveillance Platform with the following broad operational characteristics :-

   (a) **Regmt.**

      (i) Provision of real time intelligence inputs for Rashtriya Rifles operations in Built Up Areas (BUA).

      (ii) Avoiding casualty to own troops during initial breach.

      (iii) Precise delivery of suitable munition.

      (iv) Dynamic real time monitoring of terrorists activities during operations.

   (b) **Functionality and Sub Components.** Functionality to be used in Built Up Areas (BUA) for gathering real time intelligence input prior to manual insertion. The sub components of the system should be as follows:-

      (i) **Launch Unit.**

         (aa) **Surveillance Camera.** To provide input in both day and night mode.

         (ab) **Transmission System.** The ideal range should be between 150 meters to 200 meters.

         (ac) **Munition Delivery.** The platform must be capable of delivering a suitable munition at the intended target, e.g. grenade.

      (ii) **Control Unit.** For control and monitoring.

   (c) **Operational Parameters.** The operation parameters of the system should be as follows:-

      (i) **Light Weight and Rugged.** Man portable (light weight) and throwable (minimal weight: less cont unit & payload). At the same time, the system has to be shockproof to withstand the above conditions.

      (ii) **Obstacle Negotiation.** Stair climbing and obstacle negotiation capability to be incorporated.

      (iii) **All Weather.** The system should be all weather and water proof.

4. **Tentative Quantity.** Approx 550 initially.

5. **Tentative Timelines for Development/Production.** One year.