

SoC-5

**STATEMENT OF CASE FOR MEDIUM-RANGE PRECISION
KILL SYSTEM (MRPKS)**

1. **Name of Proposal.** Medium Range Precision Kill System (MRPKS).
2. **User Directorate.** Artillery Directorate (Artillery -13).
3. **Estimated Quantity.** One complete set of weapon system with rockets for trials/ validation in the present proposal. In future it is envisaged to replace one battery each of existing Light Regiments.
4. **Estimated Cost.** Rs 30 Crores is the estimated cost of development of one set Ground Support Equipment (GSE) & ammunition for validation. This cost estimate is for the prototype equipment.
5. **Operation Justification of Proposal (Including Quantity being Sought).**
 - (a) The current rockets held in the inventory of Indian Army can not be employed with precision in mountainous terrain. The present rocket system i.e. 214 mm Pinaka Multiple Launcher Rocket System (MLRS) & 300 mm Smerch MRLS are based on 8x8 and 10x10 TATRA vehicle configurations respectively. The limited development of road infrastructure in the mountains results in Turning Circle Diameter (TCD) restrictions. As a result the Pinaka & Smerch weapon system have limited usage in mountainous terrain.
 - (b) The MRPKS is an indigenous weapon system which is being developed to be mounted on a 4x4 in-service vehicle (2.5 Ton) and hence can be effectively employed in mountainous terrain. The system is configured to have single / double pods able to fire a cassette of 24 Rockets each. The launcher would be able to operate in autonomous mode with long range communications. The ammunition being developed for the weapon system is a high precision, medium range Rocket having a range of 25 km and accuracy of upto two meters at the target end. The accuracy is achieved by an on board guidance system & a passive IR terminal guidance. The ammunition being a fire & forget rocket, will ensure greater efficacy of engagements with precisions like capability being available to own forces.
 - (c) It is proposed to be vertical launcher, giving a 360 degree employment capability, as also posing no crest clearance issues in hills.
 - (d) The voids of employing rockets in mountainous region with near pin point accuracy at medium ranges will be addressed with the development of the MRPKS weapon system. It will act as a major force multiplier for tactical operations due to its fast deployment, high mobility, increased employability, low weight of the vehicle precision accuracy and shoot & scoot capabilities.