

## **RFI : QUICK REACTION SURFACE TO AIR MISSILE (QRSAM)**

- Question 1. What is the configuration of the QRSAM System, please specify the availability of the following :-
- (a) Surveillance and target tracking systems.
  - (b) Missile Launchers.
  - (c) Command and Control Systems.
  - (d) Miscellaneous equipment in details.
- Question 2. Is the missile capable of the following features (each of the following to be clarified separately) :-
- (a) **Maximum Range**. Not less than 15 km.
  - (b) **Crossover Range**. Not less than 9 km.
  - (c) **Altitude**. Not less than 6 Km.
  - (d) **Target Speed**. 0 to 500 m/s. Missile should be able to engage hovering helicopters.
  - (e) **Guidance**. Suitable guidance system (with active and/or passive seekers).
  - (g) **Warhead**. Should cause destruction/incapacitation of the air target.
  - (h) **SSKP**. Not less than 70% with single missile and not less than 85% for a salvo of two missiles.
  - (j) **Reaction Time**. 6 seconds or less (from launch command for missile to launch of missile).
- Question 3. Is the system capable of engagement of aerial targets upto the speed of Zero to 500 m/s and altitude more than 6 km at maximum range of the missile?
- Question 4. Does the system have the ability to fire a salvo of more than two missiles and simultaneously control/guide the salvo of missiles?
- Question 5. Does the system have the ability to carry out surveillance and tracking while on the move and immediately fire the missile on halting?

- Question 6. Confirm the under mentioned capability of the radar:-
- (a) Capable of tracking targets at speeds of zero to 500 m/s at an altitude of more than 6 Km.
  - (b) Availability of ECCM facility to support operational EW environment.
  - (c) Capability to control two or more missiles simultaneously .
  - (d) Appropriate tracking range to ensure engagement of aerial targets at maximum range of missile.
- Question 7. Will the various components forming the configuration of the weapon system have space required for Radio Sets (including reserve) besides providing suitable inter communication facility between members of the crew in each equipment?
- Question 8. Can the weapon system be mounted on High Mobility Vehicle (HMs) in service with Indian Army ?
- Question 9. Can the equipment move a distance of 50 Km cross country in a day with on board fuel tank and in addition be able to operate for eight hours in a day without refueling?
- Question 10. Will the weapon system be capable of transportation by rail on broad gauge rakes of Indian Railways?
- Question 11. Is the system capable of being operated in plains, deserts, semi-deserts terrain obtaining in India
- Question 12. Does the system have an auxiliary or trailer/vehicle mounted external power supply system for training, undertaking repairs and maintenance?
- Question 13. Does the weapon system have the following:-
- (a) Night Vision Devices (NVD) for crew commander and driver.
  - (b) Fire fighting system.
  - (c) Navigation system.
  - (d) NBC protection system.
- Question 14. Is the system capable of conducting a Built In Test Equipment driven testing both, when the operational programme is being run or not being run?
- Question 15. Does the system have simulators for effective training of the crew?

- Question 16. Will the equipment be modular in design to facilitate speedy repairs?
- Question 17. Will you be able to carry out Transfer of Technology (ToT) to the nominated agency in India and establish the required facilities?
- Question 18. Will you be able to carry out Maintenance Transfer of Technology (MToT) to the nominated agency in India and establish the required facilities?

**REQUEST FOR INFORMATION FROM VENDORS FOR  
PROCURING THE QUICK REACTION SURFACE TO AIR MISSILES**

1. Indian Army is desirous of procuring Quick Reaction Surface to Air Missiles.
2. It is requested that information may specifically be provided in reply to this Request for Information.
3. A questionnaire giving specific inputs for the proposed equipment is given as Appendix 'A'.
4. Response to RFI be communicated as under:-
  - (a) Weapon & Equipments (WE-9)  
Room No 208G,  
Integrated HQ of MoD (Army)  
South Block, DHQ PO  
New Delhi – 110 011
  - (b) **Fax No.** 0091-23793274
  - (c) **E mail ID.** we\_dte@yahoo.com