

## **Maiden Launch of PDV interceptor**

In a significant milestone achieved in the direction of developing a two layered Ballistic Missile Defence system, DRDO today successfully carried out the maiden PDV mission meeting the mission objectives. PDV mission is for engaging the targets in the exo-atmosphere region at about more than 120km altitude.

Both, the PDV interceptor and the two stage target equipped with motors were specially developed for the PDV mission. The target was developed for mimicking a "hostile Ballistic Missile approaching from more than 2000 km away" was launched at 0907 hrs from a Ship in the Bay of Bengal.

In an automated operation, radar based detection and tracking system detected and tracked the enemy's ballistic missile. The computer network with the help of data received from Radars predicted the Trajectory of the incoming Ballistic Missile. PDV that was kept fully ready, took-off once the Computer system gave the necessary command for lift-off.

The Interceptor guided by high accuracy Inertial Navigation System (INS) supported by a Redundant Micro Navigation System moved towards the estimated point of the interception. Once Missile crossed atmosphere, the Heat Shield ejected and the IR Seeker dome opened to look at the Target location as designated by the Mission Computer. With the help of Inertial Guidance and IR Seeker the Missile moved for interception.

All events were monitored in real-time by the Telemetry/Range Stations, at various other locations. The mission was completed and the interception parameters were achieved.

Shri Avinash Chander, SA TO RM and Secretary Deptt of Defence R&D congratulated the mission team. Dr VG Sekaran, DS & DG MSS; Dr Satish Reddy Dir RCI; Shri Adalat Ali, Program Director AD, Shri Y Sreenivas Rao RCI project Director AD; Dr PS Goel DRDO chair former chairman RAC; Shri Venu Gopal former Director DRDL; Shri MVKV Prasad Director ITR, Dr Tessy Thomas OS &PD A4 and other senior DRDO officials were present.

Ravi Kumar Gupta  
Scientist G & Director  
Directorate of Public Interface,  
DRDO Hqrs, Room 117, DRDO Bhawan  
Rajaji Marg, New Delhi-110011  
Ph 9111 23011073, 23007117