



## **PRESS RELEASE (Revised)**

Friday, 17 Oct 2014  
ITR, Balasore, Odisha

### **INDIA CONDUCTS SUCCESSFUL FLIGHT TRIAL OF 'NIRBHAY' SUB-SONIC CRUISE MISSILE**

India's first indigenously designed and developed long range sub-sonic cruise missile Nirbhay was successfully flight tested today the 17th October 2014 at 1005 hrs from the Integrated Test Range (ITR), Balasore, Odisha. The entire mission, from lift-off till the final splash down was a perfect flight achieving all the mission objectives.

The cruise missile Nirbhay, powered by a solid rocket motor booster developed by the Advanced Systems Laboratory (ASL) took off majestically from a mobile launcher specifically designed for Nirbhay by the R&D Engineers (E). As it achieved the designated altitude and velocity, the booster motor got separated, the turbofan engine automatically switched on taking over the further propulsion and the wings opened up by the commands generated by the onboard computer (OBC) stabilising the flight. Guided by a highly advanced inertial navigation system indigenously developed by Research Centre Imarat (RCI) the Nirbhay continued its flight that lasted a little over 1hr and 10 minutes. Throughout its path, the missile was tracked with the help of ground based radars and its health parameters were monitored by indigenous telemetry stations by team of professionals from DRDO's ITR and LRDE (Electronics & Radar Development Establishment). Additionally, the performance of Nirbhay was closely watched by an Indian Air Force aircraft.

"The missile maintained an accuracy better than 10 meters throughout its path and covered a distance of more than 1000 km" informed Dr Avinash Chander, the Scientific Advisor to Raksha Mantri, Secretary Deptt of Defence R&D and DG DRDO, speaking after the completion of the mission. "The successful indigenous development of Nirbhay cruise missile will fill a vital gap in the war fighting capabilities of our armed forces", Continued Dr Avinash Chander.

The 1000 kilometer class cruise missile with capability to strike deep in to the enemy territory, has been designed and developed by the Defence Research and Development Organisation, DRDO, India's premier Defence R&D organisation at its aeronautics R&D laboratory ADE (Aeronautical Development Establishment) based in Bengaluru, Karnataka. The missile is yet another giant step forward in India's technological capabilities for design development and leading to production state of the art weapons platforms and equipment for country's Armed Forces.

Earlier, the launch preparations and plans were authorized after thorough review by experts led by Dr Avinash Chander, under whose guidance the launch process was executed. Shri P. Srikumar Director ADE, as the mission director led the launch operations. The launch preparations were planned and supervised by Shri Vasanth Sastri Project Director 'Nirbhay' project. The launch was witnessed by Dr K Tamilmani, DS & DG Aeronautical systems, Dr V G Sekran DS & DG Missiles and strategic systems, Vice Admiral Dinesh Prabhakar (retd.) AVSM, NSM, VSM. DG ATVP,

DrSatishReddy, DS and Director RCI, DrTessy Thomas, OS and Director ASL, Shri MVKV Prasad OS and Director ITR and senior DRDO scientists.

The Hon'ble Raksha Mantri ji has congratulated Dr Avinash Chander and the DRDO team on the successful flight trial of Nirbhay.

This was the second launch of Nirbhay cruise missile. The maiden launch last year on 12th March 2013 was partial success achieving most of the mission objectives. The maiden flight had to be terminated for safety reasons due to malfunction of a component, after deviation from intended path was observed.

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