

**GOVERNMENT OF INDIA  
DEFENCE  
LOK SABHA**

UNSTARRED QUESTION NO:3448  
ANSWERED ON:12.12.2014  
INTEGRATED RADIO COMMUNICATION SYSTEM  
Tharoor Dr. Shashi

**Will the Minister of DEFENCE be pleased to state:**

- (a) whether the Integrated Radio Communication System (INCOM) developed by Hindustan Aeronautics Ltd. (HAL) for the Indian Air Force (IAF) does not meet the requirement of jam-resistant and secure radio sets and if so, the details thereof;
- (b) the expenditure incurred on the INCOM sets developed by the HAL;
- (c) whether the IAF has accepted the deliveries in spite of defects and non-usability of the equipment and if so, the details thereof, along with the reasons therefor;
- (d) whether the Government proposes to replace or redesign these radio sets and penalize the HAL; and
- (e) if so, the details thereof?

**Answer**

MINISTER OF STATE (RAO INDERJIT SINGH) IN THE MINISTRY OF DEFENCE

- (a) Integrated Radio Communication set (INCOM) was required to operate in four modes viz.,
  - (i) Conventional mode,
  - (ii) Secure mode,
  - (iii) Jam-resistant mode and
  - (iv) Secure + Jam-resistant mode. The INCOM set first time designed & developed by HAL in India was based on operational requirement. These sets operated satisfactorily for conventional mode. Currently, these systems are in use by various aircraft platforms of IAF.
- (b) An expenditure of Rs.10.14 crore was incurred on development of INCOM.
- (c) IAF accepted these sets in conventional mode to meet the urgent operational requirements to replace radio sets in many fleets.
- (d) & (e): IAF is proposing to replace the INCOM system with Software Defined Radio systems (SDRs) in a phased manner.

Phase-1 of the programme is ongoing under a global RFP for which HAL is the integration partner for the acquisition planned from Rafael, Israel.

For Phase-2, HAL has initiated design and development of indigenous SDR system which is presently under trials. These SDRs will be Jam-resistant with secure features.