

**GOVERNMENT OF INDIA  
MINISTRY OF CIVIL AVIATION  
LOK SABHA  
UNSTARRED QUESTION NO. : 106  
(To be answered on the 2<sup>nd</sup> February 2017)**

**INSTALLATION OF AUTOMATIC DEPENDENT SURVEILLANCE-BROADCAST**

106. **SHRI VINAYAK BHAURAO RAUT  
SHRI ANANDRAO ADSUL  
SHRI SHRIRANG APPA BARNE  
SHRI ADHALRAO PATIL SHIVAJIRAO  
DR. SHRIKANT EKNATH SHINDE**

Will the Minister of CIVIL AVIATION

नागर विमानन मंत्री

be pleased to state:-

- (a) whether the Airports Authority of India (AAI) proposes to install Automatic Dependent Surveillance-Broadcast (ADS-B) for civil aviation safety on buoyancy all around the country's oceanic boundaries, if so, the details thereof;
- (b) whether security experts feel that other sensitive details may be misused by anti-social or non-state actors to harm India's interests;
- (c) if so, the response of the Union Government thereto;
- (d) whether AAI has recently showed its apprehension to UN backed International Civil Aviation Organisation (ICAO), about sharing the data with its hostile neighbour and if so, the details thereof;
- (e) whether air traffic service providers and regulators worldwide are moving from radar based surveillance to ADS-B to track air planes during flight and on the ground more accurately and reliably; and
- (f) if so, whether the changes required are to be equipped in new and existing planes, which obviously come at a premium, which many of the domestic airlines in India at present are trying to avoid in absence of any regulation related to it and if so, the response of the Government thereto?

**ANSWER**

Minister of State in the Ministry of CIVIL AVIATION

नागर विमानन मंत्रालय में राज्य मंत्री

(Shri Jayant Sinha)

- (a) : The Airports Authority of India (AAI) has already installed Automatic Dependent Surveillance - Broadcast (ADS-B) at 21 locations in the country, viz., Amritsar, Jaipur, Jaisalmer, Lucknow, Varanasi, Calicut, Cochin, Coimbatore, Mangalore, Port Blair, Trichirappalli, Vijayawada, Bhubaneshwar, Patna, Ahmedabad, Mumbai, Nagpur, Agartala, Dibrugarh, Guwahati and Thiruvananthapuram. ADS-B ground stations are envisaged to extend ATS surveillance to oceanic airspace also.
- (b) & (c) : Some security experts are of the view that the sensitive details may be misused by Anti-social elements. The security issues associated with the use of ADS-B are categorised into threats to Confidentiality, Integrity and Availability. However, the 'ICAO APAC ADS B Implementation and Operations guidance Documents Edition 8.0 September, 2015', is followed as guidance material for mitigating the threats associated with the use of ADS-B.
- (d) : No, Madam.
- (e) : Yes, Madam. As per the information available from ICAO meetings, ANS providers are proceeding in this direction.
- (f) Yes, Madam. The changes are required to be equipped in new and existing planes for moving from radar based surveillance to ADS-B. However, the Government has not received any such references from airlines for consideration.