

Modern Air Navigation System

2515. SHRI ANIL MADHAV DAVE: Will the Minister of CIVIL AVIATION be pleased to state:

(a) whether Airports Authority of India (AAI) has developed any modern Air Navigation System (ANS) for improving navigation;

(b) if so, the details thereof along with its features and expenditure incurred on its development;

(c) whether this is being implemented at various airports in India;

(d) if so, the names of airports with such facility; and

(e) whether this system can be used for non-aviation purpose as well and, if so, the details thereof?

THE MINISTER OF STATE IN THE MINISTRY OF CIVIL AVIATION (DR. MAHESH SHARMA): (a) and (b) Yes, Sir. GAGAN (GPS Aided GEO Augmented Navigation) is an Indian satellite based navigation system, developed jointly by Airports Authority of India and Indian Space Research Organisation. It comprises 15 ground stations located at various airports collecting and processing GPS data through two Master Control Centres and transmitting corrections to users through two GEO satellites using three uplink stations. The GAGAN system provides very accurate and high level of integrity satellite signals for precision air navigation over the entire Indian Airspace. The expenditure till October, 2014 for the GAGAN project is ₹777.08 crores.

(c) and (d) GAGAN signal covers the entire Indian Airspace covering all the airports, it can be exploited for aircraft operations with suitable aircraft equipage and procedures.

(e) Yes, Sir. There is potential of sector-specific utilization of GAGAN system for its use in non-aviation sector such as Railways, Road Transport, Shipping, Defence, Science and Technology, Mining, Agriculture etc.

Linking of international flights to domestic centres

†2516. SHRI RAMDAS ATHAWALE: Will the Minister of CIVIL AVIATION be pleased to state:

(a) whether it is a fact that Government has formulated a plan to link international flights to domestic centres;

†Original notice of the question was received in Hindi.