

**GOVERNMENT OF INDIA
CIVIL AVIATION
LOK SABHA**

UNSTARRED QUESTION NO:866
ANSWERED ON:29.07.2010
NAVIGATION SYSTEM AT AIRPORTS
Panda Shri Baijayant;Pradhan Shri Nityananda

Will the Minister of CIVIL AVIATION be pleased to state:

- (a) whether it is proposed to switch over to state-of-the-art satellite based navigation system for the aviation sector;
- (b) if so, the details thereof;
- (c) whether it is proposed to modernise certain airports in the country;
- (d) if so, the details thereof; and
- (e) the status of closed airports that are proposed to be re-opened in the underdeveloped regions of the country i.e., Orissa, Chhattisgarh, Jharkhand and northeastern region etc.?

Answer

MINISTER OF THE STATE (INDEPENDENT CHARGE) IN THE MINISTRY OF CIVIL AVIATION (SHRIPRAFUL PATEL)

(a): Yes, Madam.

(b): Airports Authority of India (AAI) is implementing state-of-the-art satellite based navigation system named as GPS Aided GEO Augmented Navigation (GAGAN) in collaboration with Indian Space Research Organization (ISRO) for Indian airspace.

India is one of the leading countries in the world to take up the implementation of Space Based Augmentation System (SBAS). Other SBAS systems in the world under implementation / operational are Wide Area Augmentation System (WAAS) of USA, European Geo Navigation Overlay System (EGNOS) of Europe, and Multi-Satellite Augmentation System (MSAS) of Japan.

GAGAN Project is being implemented in phased manner. The first phase, the Technical Demonstration (TDS) Phase was successfully completed in August 2007. The Final Operation Phase (FOP) has commenced from June 2009 and is scheduled to be completed by June, 2013.

GAGAN will provide seamless navigation across Indian skies with high level of accuracy, integrity, availability & continuity.

When operational, the system will provide navigation assistance to all phases of flight operations. The GAGAN system is expected to benefit the other transport sectors also.

(c): Yes, Madam.

(d): The details are given at Annexure 1 & II.

(e): There are no airports of AAI in Orissa, Chhattisgarh and North East Region, which have been declared as closed airports. However, the status of non-operational airports of AAI in these states is given at Annexure- III.