

**GOVERNMENT OF INDIA
CIVIL AVIATION
LOK SABHA**

UNSTARRED QUESTION NO:1973
ANSWERED ON:11.12.2008
GAGAN PROJECT
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Will the Minister of CIVIL AVIATION be pleased to state:

- (a) whether the Government has introduced the GPS Aided Geo Augmented Navigation (GAGAN) Project;
- (b) if so, the details thereof;
- (c) the total cost of the project;
- (d) whether this system would meet the growing air traffic; and
- (e) if so, the details thereof?

Answer

MINISTER OF STATE (INDEPENDENT CHARGE) OF THE MINISTRY OF CIVIL AVIATION (SHRI PRAFUL PATEL)

- (a) The Government has approved GAGAN project which is to be executed by Airports Authority of India (AAI) in collaboration with Indian Space Research Organization (ISRO).
- (b) GAGAN Project is an Indian Satellite Based Augmented System (S-BAS) to provide Navigation System for all phases of flight operations over Indian Flight Information Regions (FIR) and adjoining areas. The first phase of this programme i.e., Technology Demonstration System (TDS) has already been completed in August, 2007 and the final phase i.e., Final Operation Phase (FOP) is scheduled to be completed by May, 2011.
- (c) The total cost of the project is Rs. 774 crores in which AAI's share is Rs. 604 crores and ISRO's share is Rs. 170 crores.
- (d) Yes, Sir.
- (e) The GAGAN programme will:
 - (i) provide coverage of oceanic areas which is not possible by terrestrial system
 - (ii) improve efficiency and flexibility by increasing use of operator-preferred trajectories at all altitudes.
 - (iii) increase safety of aircraft operations by using three dimensional (3D) approach operations.
 - (iv) enhance reliability and reduce delays.
 - (v) reduce workload and improve productivity of air traffic controllers.
 - (vi) achieve uniform and accurate levels of navigation performance over the entire airspace.
 - (vii) enhance runway capability.
 - (viii) provide fuel efficient corridors.
 - (ix) provide CAT-I approaches without ground element support.
 - (x) assist in upper air space management.