

**GOVERNMENT OF INDIA
CIVIL AVIATION
LOK SABHA**

UNSTARRED QUESTION NO:1554
ANSWERED ON:06.03.2013
SOFTWARE TO ANALYSE AIRCRAFT MOVEMENT
Nirupam Shri Sanjay Brijkishorilal

Will the Minister of CIVIL AVIATION be pleased to state:

- (a) whether the traffic management capability has been adversely affected in terms of air traffic control particularly in some of the metropolitan airports due to the rise in operation of flights;
- (b) if so, the details thereof;
- (c) whether the Airports Authority of India is getting a software to analyse aircraft movement time on runways, taxiways and the technical area;
- (d) if so, the details thereof, and;
- (e) the other steps taken by the Government to improve the traffic management capability in the country?;

Answer

Minister of State in the Ministry of CIVIL AVIATION (SHRI K. C. VENUGOPAL)

(a): No, Madam.

(b): Does not arise.

(c) & (d) Yes, Madam. The Airports Authority of India (AAI) is in need of advanced software tool to analyze the occupancy time on runways, taxiways etc. At present the Advanced Surface Movement Guidance and Control System (ASMCGS) is used to some extent to know about aircraft movement time on runway and taxiway. The ASMGCS combines multi-source surveillance data from radar sensors, Multilateration (MLAT) sensors and Automatic Dependent Surveillance - Broadcast (ADS-B) to provide the controller with position of the moving aircraft on ground.

The advanced software tool will help in precisely calculating and analyzing the aircraft movement time on runways, taxiways and technical area.

(e): The following steps are taken/being taken to improve the traffic management capability in the country:

(i) Air Traffic Flow Management (ATFM) System to improve the flow and management of traffic.

(ii) Nine new radars have been installed to cover those portions of continental airspace which are currently not under radar surveillance. This will enhance situational awareness of the controllers.

(iii) ADS-B has been installed at 14 locations to cover the surveillance gaps and enhance situational awareness of the controllers.

(iv) Flexible Use of Airspace between civil and Defence airspace introduced to reduce traffic congestion in congested civil airspace during peak traffic hours.

(v) Performance Based Navigation (PBN) has been introduced in Delhi, Mumbai, Ahmedabad, Chennai, Hyderabad and Kolkata airport and also being introduced in Trivandrum and Bengaluru airport to expedite and better management of air traffic.