

RUNWAY CAPACITY STUDIES FOR MAJOR INDIAN AIRPORTS

P. Lathasree and Abhay A. Pashilkar
Scientist
Flight Mechanics and Control Division
CSIR National Aerospace Laboratories (NAL)
HAL Airport Road, Post Box No. 1779
Bangalore-560 017, India
Email : platha@nal.res.in

Abstract

The two principal measures of performance of Air Traffic management (ATM) systems are Capacity and Delay. Significant growth in Indian air traffic is causing congestions and hence delays in the en-route airspace and at airports. The main reason for the delay at airports is insufficient capacity in terms of facilities such as runways, taxiways or gates to accommodate peak period demands. The delays at airports would cause inconvenience to the passengers, airlines and the airport authorities. The airport runway capacity information will be useful to manage demand and minimize the delay. Prediction of runway capacity aids in developing strategies for efficient air traffic management. This paper presents the airport runway capacity studies carried out using Time Space diagrams for major Indian Airports.

Keywords: *Capacity, Delay, Runway capacity, Time-Space analysis, Fast time simulation model*

Paper Code: V66 N3/837 (UR)-2014