



भारतीय विमानपत्तन प्राधिकरण
AIRPORTS AUTHORITY OF INDIA
DIRECTORATE OF AIR TRAFFIC MANAGEMENT
RAJIV GANDHI BHAWAN, NEW DELHI-110003

GIS CIRCULAR 01/2023

Subject: Review of periodicity of OLS survey

1) Introduction:

- 1.1 Aerodrome surveys are crucial for maintaining safety, compliance, efficiency, and long-term viability of aerodrome operations.
- 1.2 Aeronautical survey Manual version 1.01 was published in year 2012. The manual provides guidelines on survey methods and collection of critical information about airport features, obstacles in and around the airports and aids to navigation, etc. This surveyed information is utilized for facility planning, flight procedures design and preparation of maps / charts etc. for publications in AIP (India).
- 1.3 It is important to adhere to the applicable regulations and guidelines provided by the regulatory authority to determine the specific requirements for aerodrome surveys. The frequency of aerodrome surveys may vary depending upon the factors such as size and complexity of the aerodrome, regulatory requirements as stipulated from time to time, operational characteristics, and any significant changes or developments taking place in and around the airport.
- 1.4 In India with increasing number of operational airports, the requirement to conduct the aeronautical surveys is increasing. AAI has a well-developed system of obstacle control in and around the airports for safe aircraft operation, including OLS survey at regular intervals, issuance of NOC for height (NOCAS), airport level monitoring mechanism. However, the height of most of the obstacles are fixed and captured in initial survey. In subsequent surveys only new and any changes in obstacles' height are captured. Therefore, it was deliberated within AAI and felt that, with well-developed system of obstacle control, the periodicity of aeronautical survey should be revised. A Committee to this effect was formed, which has inter alia, recommended revised periodicity of survey.

2) Purpose:

- 1.1 AAI, as the Air Navigation Service (ANS) Provider has been conducting the aeronautical surveys of all its civil airports and some of the military airports where civil commercial operations are taking place.

- 1.2 The purpose of this Circular is to communicate the revised requirement for conducting full (detailed) OLS Survey and Check Survey (limited Area Survey) for all the civil aerodrome operators (as per Aeronautical Survey Manual para1.7) and requirement of the private and state-owned aerodrome operators for Verification & Validation of Surveyed data from AAI.

3) Scope:

This Circular is applicable to all civil Aerodromes including AAI, private and those owned by the State Governments.

4) Survey Requirement:

I. Full (detailed) survey [as per Aeronautical Survey Manual para1.7.1 & 1.7.2]

- a) The procedures for a full survey includes the geodetic connections of airport, airport facilities including navigation aids, and obstacle survey of obstacle limitation surfaces (OLS) within 20 km around the airport.
- b) Full (detailed) survey shall be conducted at the initial commissioning of the aerodrome and thereafter it is required to get an airport resurveyed after every 4 years for IFR and 5 years for VFR airports.

II. Check Survey [as per Aeronautical Survey Manual para1.7.3]

- a) Check survey is to identify any changes in the aerodrome lay out such as addition/modifications of new stands, shifting of threshold or holding positions, new locations/trans-installation of nav. aids, addition or removal of obstacles including significant tree growth or reduction, since the previous survey.
- b) The check surveys may also be conducted on the specific request of Airport Director/Airport Operator whenever commissioning of a new facility (i.e. parking stand, new or displaced threshold, nav-aids etc) at the airport is needed for the purpose of certification.
- c) Check survey may be restricted to the particular area of aerodrome or to a particular runway in case of any extension.
- d) Check survey may also be conducted if the operations from a particular runway needs to be upgraded, i.e. non-instrument to instrument, or, non-precision to precision.
- e) All Check Survey requirement shall be communicated by Airport Director /Airport operator to Survey & Cartography section, AAI, CHQ.
- f) However, as per Aerodrome Advisory Circular No. 1 of 2006 and Aerodrome Manual Part-4 Para-4.13, all Airport Director/Airport operator Shall be responsible for**
 - i) Monitoring the obstacle limitation surface and Type A chart take-off surface for obstacles.
 - ii) Controlling obstacles within the authority of the operator.

- iii) Monitoring buildings or structure development in relation to their height within the boundaries of the obstacle limitation surface.
- iv) The control of new developments in the vicinity of aerodromes.


5) Validity:

This GIS circular is valid from 10.08.2023 and will remain valid till it is amended or withdrawn or incorporated in the Aeronautical Survey Manual.

6) Queries:

Any queries or further guidance required on the contents of this GIS circular should be addressed to:

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10/08/2023.
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