



भारतीय विमानपत्तन प्राधिकरण
AIRPORTS AUTHORITY OF INDIA

**DIRECTORATE OF AIR TRAFFIC MANAGEMENT
RAJIV GANDHI BHAWAN, NEW DELHI-110003**

GIS CIRCULAR NO. 01 of 2024

Sub : Verification & Validation charges by AAI for Aeronautical surveyed data provided by State/PSU/Private/Defence owned airport/ Heliport

1. Introduction

1.1 Aeronautical surveying is a highly specialised activity requiring specific skill and expertise. Aeronautical survey programme provides critical information about airport features, obstructions & navigational aids. This data is needed for safe aircraft operation and therefore is safety critical. Airport surveying needs extensive knowledge of ICAO documents related to aerodromes and its environs in respect of the operational areas, obstacle limitation surfaces, navigational facilities, PANS-OPS surfaces etc. Surveyors must also have the knowledge of ICAO requirement of accuracies and integrity of the data collected and the adoption of the World Geodetic System-1984 as standard geodetic reference system for international civil aviation.

2. Purpose

- 2.1 In the past, AAI as the Aeronautical Service (ANS) Provider had been conducting the aeronautical surveys of all its civil airports and some of the military airports where civil commercial operations had been taking place. But with the privatisation of some of the major civil airports in India and entry of private Operators in developing new green field airports and requirement to conduct the aeronautical surveys at regular intervals for maintaining the currency of the aerodrome licence, it is not feasible for AAI to conduct the aeronautical surveys of all airports at regular interval. This has forced the private aerodrome Operators to look at various options to complete the aeronautical surveys through experienced private survey firms.
- 2.2 However, in view of regulatory requirement for accuracy/integrity of the published surveyed data in AIP India, DGCA requires private/state Operators to get the data validated from AAI through Verification & Validation (V & V) process.
- 2.3 The purpose of this Circular is to standardize the Verification & Validation procedure for all the Aerodrome Operators requiring V & V certificate from AAI for the survey data.



3. Scope

- 3.1 This Circular is applicable to all Aerodromes Operators including those owned by Airports Authority of India.
- 3.2 Verification & Validation charges in Table 2 are applicable charges for non-AAI airports like State/Private/ PSU/Defence owned airports and heliports.

4. Mandatory Survey Requirement

- 4.1 Aerodrome Operators, including aerodromes owned by Airports Authority of India, shall follow AAI Aerodrome Survey Manual and GIS circular 01/2023 for survey requirement and periodicity, respectively. Airport Director/Airport Operator are advised to provide accurate information of their aerodrome and environs as per requirement defined in Table-1.
- 4.2 Aerodrome Operator is expected to keep all the records of No Objection Certificates (NOC) issued during the period, since the last survey was conducted. List of the NOC cases located within the survey areas should be provided to the survey team so that it may be taken into the consideration for verification. In addition, any change in the location of Navigational Aids, threshold or parking stand shall be informed to the survey team.
- 4.3 Surveys shall be undertaken for all Survey Areas required to measure any changes at the periodic intervals prescribed in Table-1 below:

Table 1

Survey Type	Periodicity
Geodetic Connection	<ol style="list-style-type: none"> a) Together with an initial full survey. b) When a more accurate reference frame for WGS-84 becomes available. c) When an aerodrome facility ,e.g. new parking stand 'taxiway or threshold, nav-aid etc. needs to be commissioned.
Full Survey	<ol style="list-style-type: none"> a) Initial commissioning of the aerodrome. b) If a check survey is not carried out as specified in para 4.4. c) After every 4 years for IFR and 5 years for VFR as specified in GIS Circular 01/2023. d) If any doubt exists, regarding the quality of previous survey.
Check Survey	As defined in para 4.4 below and on the specific request of Airport Director/Airport Operator.



4.4 Check Survey

- a) The 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, etc 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 surveys shall be notified by Airport Director/Airport Operator to Survey & Cartography section, CHQ, AAI.
- f) However, as per DGCA Aerodrome Advisory circular no. 1 of 2006, para 4.13 on Obstacle control, Airport Director/ Airport Operator shall be responsible for:
 - ❖ Monitoring the obstacle limitation surface and Type A chart take off surface for obstacles;
 - ❖ Controlling obstacle within the authority of the Operator;
 - ❖ Monitoring building or structure development in relation to the height within the boundaries of obstacle limitation surface;
 - ❖ Control of new developments in the vicinity of the aerodrome; and
 - ❖ Notifying the DGCA of the nature and location of obstacles and any subsequent addition or removal of obstacle for necessary including amendment of the AIS publications.

4.5 Verification and Validation Certification

- 4.5.1 The V & V certificate from AAI will be valid depending on the periodicity of survey requirement based on Aerodrome classification or till the new survey carried out due to any changes in the aerodrome environs, whichever is earlier.
- 4.5.2 Information regarding any comments on specific coordinates received from any source shall also be communicated to the assessment team during the conduct of the process by Airport Director/Airport Operator.



- 4.5.3 Airport Director/Airport Operator shall be responsible for the control of obstacles around the airport as per the existing notifications or any such notifications issued by Government of India from time to time.
- 4.5.4 05 casual labourers per day and suitable transportation for the survey will be provided by State/Private/PSU/Defence aerodrome Operator during the field survey at their own cost.
- 4.5.5 Airport Director/Airport Operator shall ensure that all statutory clearances are taken and will be responsible for any non-adherence of V & V process.
- 4.5.6 Airport Director/Airport Operator shall be responsible for the entire accuracy, currency and validity of the aeronautical data, as AAI will only carry out random checks and evaluate the process adopted by Operator for collection and maintenance of data.
- 4.5.7 AAI shall not be held liable for the wrong usage or otherwise of aeronautical data by the Operator/airline causing loss to property or life.

5. Checklist for Airport Director/Aerodrome Operators for the V & V process

In order to reduce delay in V & V process, certain compliances are required to be done by the concerned Airport Director/Airport Operator before commencement of V & V process by AAI. A compliance certificate of the following checklist is to be submitted to AAI by the concerned Airport Director/Airport Operator before commencement of V & V process by AAI:

S.No.	V&V process Compliances	Compliance (Yes/No)	Remarks
1	Airport features viz. runway, Taxiway, NAV-aids if any, must exist physically in complete state with proper markings.		
2	ARP, PACS (Primary Airport Control station) & SACS (Secondary Airport Control Station) must be established as per standard requirement.		
3	Duly filled & Signed Survey Report as per AAI format.		
4	Survey charts viz. Airport map (Base Map), Approach charts, Objects of vertical Significance chart and Parking & Docking Chart as per AAI standards to be submitted in hard copy.		
5	Runway End Permanent Markers on both ends of the runway as per AAI operational circular 06 of 2011.		

6 Verification & Validation charges – Aerodrome category wise

6.1 Competent authority has approved following V & V process charges payable by an Airport Director/Airport Operator to AAI w.e.f. 06/12/2023, as per its aerodrome category: -

Table 2

Aerodrome Category	Fixed Charges in INR (A)	Variable Charges in INR (Variable fee × no. of days) (B)	Total Charges in INR = A+B (excl taxes/GST as applicable)
Heliport/Helipad	11,61,000	82000 × 4 = 3.28 Lakh	14.89 Lakh
Single Runway Airport (Non- Metro/ others)	13,01,000	82000 × 7 = 5.74 Lakh	18.75 Lakh
Single Runway Airport (Metro/State Capital)	14,41,000	82000 × 8 = 6.56 Lakh	20.97 Lakh
Two or more than two Runway Airport	15,82,000	82000 × 13 = 10.66 Lakh	26.48 Lakh
Check Survey of Airport/Heliport	9,08,000	82000 × No. of days	11.54 Lakh*

*Calculated for 3 days of V&V of surveyed data

6.2 Above V & V charges are applicable for 03 years i.e. up to 05/12/2026.

6.3 Full address and GST IN of the payee for generation of tax invoice may be provided. GST challan shall be issued with all details for the purpose of payment. Further, as per notification no. 50/2018-Central tax and notification no, 73/2018- Central tax, TDS under GST provisions shall not apply on transactions which are undertaken between notified persons who are liable to deduct TDS under GST. Therefore, TDS under GST shall not be deducted by any party while making payment to AAI, since AAI is a public sector undertaking notified under section 51 of CGST Act.

6.4 Request for V & V of surveyed data along with all the document shall be submitted to:

Executive Director [ATFM]
Airports Authority of India
Rajiv Gandhi Bhawan
Safdarjung Airport
New Delhi-110003
E-mail: edatfm@aai.aero

**7. Queries**

- 7.1 Any queries or further guidance required on the contents of this Circular should be addressed to:

The General Manager (ATM-Survey)
Airports Authority of India
4th Floor, Core-6, Scope Complex,
Lodhi Road, New Delhi-110003
Email: gmatmsurvey@aai.aero
Ph-011-24632950; Extn:3202

8. Validity

This Circular is effective from the 06/12/2023 to 05/12/2026.

17/05/2024

VIKAS BHALLA
EXECUTIVE DIRECTOR [ATFM]
AIRPORTS AUTHORITY OF INDIA