



# AIRPORTS AUTHORITY OF INDIA

## Department of Aerodrome Safeguarding

Rajiv Gandhi Bhawan, New Delhi-110003

[File No. AAI/ATM/DoAS/72/2019-Part]

### AERODROME SAFEGUARDING CIRCULAR (ADSAC) 04 OF 2022

**Subject: Processing of NOC Applications for height clearance for Airport Equipment, Essential Navigation Aids Located Near Runways, Taxiways and Apron and CNS (Communication, Navigation and Surveillance) Equipment/facilities located/to be installed in operational area inside Airports.**

#### 1. Introduction

1.1 At airport various Airport Equipment, Essential Navigation Aids and CNS (Communication, Navigation and Surveillance) Equipment/facilities are to be installed in operational area inside Airports. Some visual and non-visual aids (e.g. approach lighting towers, meteorological equipment, radio navigational aids) are located near runways, taxiways and aprons, where they may present a hazard to aircraft in the event of accidental impact during landing, take-off or ground manoeuvring. All such equipment antenna and shelters should be frangible and mounted as low as possible to ensure that impact does not result in loss of control of the aircraft.

1.2 The frangibility is achieved by use of lightweight materials and/or the introduction of break-away or failure mechanisms that enable the object to break, distort or yield under impact.

29<sup>th</sup> July' 2022

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Processing of NOC Application for height clearance for Airport Equipment, Essential Navigation Aids located near Runways, Taxiways and Apron and CNS (Communication, Navigation and Surveillance) Equipment/facilities to be installed in operational area inside Airport.

#### 1.3 Obstacles to be made frangible

1.3.1 Obstacles are defined as fixed objects, or parts thereof, that are located on an area intended for the surface movement of aircraft or that extend above a surface intended to protect an aircraft in flight. The first objective should be to site objects so that they are not obstacles. Nevertheless, certain airport equipment and Radio Navigation Aids, because of their function, must be located in an operational area. All such equipment and installations as well as their supports should be of minimum mass and frangible as far as practically possible in order to ensure that impact does not result in loss of control of the aircraft.

1.4 Any equipment or installation required for air navigation purpose installed near runways, taxiways and apron may not be evaluated through NOC Application System (NOCAS) as whole runway strip is incorporated as "No Construction Zone". Also, Obstacle Free Zone (OFZ) system (Inner Approach, Inner Transition and Balk Landing) are not incorporated in NOCAS.

1.5 For a precision approach runway, the OFZ shall be kept free from fixed objects other than light weight frangible mounted aids to air navigation, which must be near the runway to perform their function.

#### 2. Purpose

To define processing the cases of Airport Equipment, Essential Navigation Aids and CNS (Communication, Navigation and Surveillance) Equipment/shelter/facilities located/ to be installed in operational area inside Airports by concerned DoAS offices for timely processing and issuance of No Objection Certificate.



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