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**BUREAU OF INDIAN STANDARDS**

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भारतीय मानक मसौदा

अंतरिक्ष प्रणालियाँ — विद्युतचुंबकीय संगतता अपेक्षाएँ

Draft Indian Standard

Space Systems — Electromagnetic Compatibility Requirements

ICS: 49.140

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Air and Space Vehicles Sectional Committee, TED 14 Last date for receipt of comments is  
28/08/2024

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NATIONAL FOREWORD

(Identical Clause to be added later)

The text of ISO standard has been proposed as suitable for publication as an Indian Standard without deviations. Certain terminologies and conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- Wherever the words 'International Standard' appear referring to this standard, they should be read as 'Indian Standard'.
- Comma (,) has been used as a decimal marker, while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

The technical committee has reviewed the provisions of following International Standards referred in this adopted standards and has decided that their acceptable for use in conjunction with this standard:

<i>International Standard</i>	<i>Title</i>
ISO 7137 : 1995	Aircraft — Environmental conditions and test procedures for airborne equipment
IEC 61000-4-2	Electromagnetic compatibility (EMC) — Part 4-2: Testing and measurement techniques — Electrostatic discharge immunity test
ISO 24637	Space systems — Electromagnetic interference (EMI) test reporting requirements

Attention is drawn to the possibility that some of the elements of this standard may be the subject of patent rights. The Bureau of Indian Standards shall not be held responsible for identifying any or all such patent rights.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 :

2022 'Rules for rounding off numerical values (*second revision*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

## **SCOPE**

This document contains a process to establish performance requirements for the purpose of ensuring space systems electromagnetic compatibility (EMC). The engineering issues to be addressed in order to achieve system-level EMC are identified herein, with guidance and rationale towards achieving specification conformance. The method for the derivation of typical equipment-level requirements from a space-system-level requirement is illustrated.

**FOR COMPLETE TEXT OF THE DOCUMENT KINDLY REFER ISO 14302: 2022 or CONTACT:**

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