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**BUREAU OF INDIAN STANDARDS**

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भारतीय मानक मसौदा

अंतरिक्ष प्रणालियाँ — विद्युत्चुंबकीय संगतता अपेक्षाएँ

*Draft Indian Standard*

**SPACE SYSTEMS — ELECTROMAGNETIC COMPATIBILITY REQUIREMENTS**

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**Air and Space Vehicles Sectional Committee, TED 14**

**Last date for receipt of comments is  
XX/XX/XXXX**

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ICS: 49.140

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## NATIONAL FOREWORD

*(Formal Clause to be added later)*

The text of ISO standard is proposed 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:

- a) Wherever the words ‘International Standard’ appear referring to this standard, they should be read as ‘Indian Standard’.
- b) 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 they are 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.

In reporting the result of a test or analysis made in accordance with this standard, is to be rounded off, it shall be done in accordance with IS 2 : 2022 ‘Rules for rounding off numerical-values (*second revision*)’.

## 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. This document also aids in the selection of tailored requirements for a specific mission.

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

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