

*For Comments Only*

**BUREAU OF INDIAN STANDARDS**

**DRAFT FOR COMMENTS ONLY**

*(Not to be reproduced without the permission of BIS or used as an Indian Standard)*

भारतीय मानक मसौदा

अंतरिक्ष पर्यावरण (प्राकृतिक और कृत्रिम) — न्यून ऊंचाई पर उच्च ऊर्जा विकिरण का मॉडल (300 किमी से 600 किमी)

*Draft Indian Standard*

**SPACE ENVIRONMENT (NATURAL AND ARTIFICIAL) — MODEL OF HIGH ENERGY RADIATION AT LOW ALTITUDES (300 KM TO 600 KM)**

ICS: 49.140

---

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

**Last date for receipt of comments is  
26/09/2023**

---

**Doc: TED 14 (22953) WC**  
**ISO 17761 : 2015**  
**July 2023**

Air and Space Vehicles Sectional Committee, TED 14

## 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.

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.

## SCOPE

This International Standard describes the fluxes of charged particles for near-Earth space on base of the PAMELA experiment data. This International Standard can be used to calculate fluxes of protons with energy more than 100 MeV up to geomagnetic cut-off rigidity at low altitudes (300 km to 600 km). The main goal of this International Standard is determining the impact of energetic charged particle flux upon spacecraft instrumentation and astronauts.

**FOR COMPLETE TEXT OF THE DOCUMENT KINDLY REFER ISO 17761 : 2015 or CONTACT:**

P. V. Srikanth  
Scientist- D & Head  
Transport Engineering Department  
Bureau of Indian Standards  
9 Bahadur Shah Zafar Marg  
New Delhi 110 002  
Email: [ted@bis.org.in](mailto:ted@bis.org.in), [hted@bis.org.in](mailto:hted@bis.org.in)  
Telefax: 011- 2323 6311