

BUREAU OF INDIAN STANDARDS

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Draft Indian Standard

Guidelines for radiotherapy treatment rooms design

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Ionizing Radiation Imaging and Radiotherapy Equipments Sectional Committee, MHD 18

NATIONAL FOREWORD

(Formal clause of adoption will be added later)

This draft Indian Standard is identical with IEC 61859:1997 'Guidelines for radiotherapy treatment rooms design' issued by the International Electrotechnical Commission (IEC).

This draft Indian Standard establishes requirements for radiotherapy equipment to ensure safety during its use. Radiotherapy equipment generally consist of several parts, not all of which are installed in the treatment room, i.e the installation involves several rooms. If these rooms are not all correctly designed and constructed, patients, operators and other persons may be exposed to danger.

This draft Indian Standard establishes requirements which should be complied with by the designer of the radiotherapy installation, taking into account the safety requirements for radiotherapy equipment.

Unless otherwise specified in the purchase contract, the radiotherapy equipment manufacturer is only responsible for the accuracy of the information given to the organizations in charge of designing and building the radiotherapy installation.

At the time of installation of the radiotherapy equipment, the user should be able to demonstrate that the requirements defined in this standard are met.

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

- a) Wherever the words 'International Standard' appears 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.

In this adopted standard, reference appears to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards which are to be substituted in their place are listed below along with their degree of equivalence for the editions indicated:

<i>International Standards</i>	<i>Corresponding Indian Standard</i>	<i>Degree of equivalence</i>
IEC 60601-1-2:1993 Medical Electrical Equipment–Part 1: General requirements for safety–2. Collateral Standard: Electromagnetic compatibility–Requirements and tests	IS 13450(Part 1/Sec 2):2004 Medical electrical equipment–Part 1: General requirements for safety Section 2 Collateral standard: Electromagnetic compatibility–Requirements and tests	Technically Equivalent
IEC 60601-2-1:1981 Medical Electrical Equipment–Part 2: Particular requirements for medical electron accelerators in the range 1MeV to 50MeV–Section One:General–Section 2: Radiation safety for equipment	IS 13450(Part 2/Sec 1): 2007 Medical electrical equipment-Part 2: Particular requirements for the safety Section 1 electron accelerators in the range 1 MeV to 50 MeV	do
IEC 60601-2-11:1987 Medical Electrical Equipment–Part 2: Particular requirements for the safety of gamma beam radiotherapy equipment	IS 13450(Part 2/Sec 11):2007 Medical electrical equipment Part 2 Particular requirements for the safety Section 11 Gamma beam therapy equipment	do
IEC 60601-2-17:1989 Medical Electrical Equipment–Part 2: Particular requirements for the safety of remote controlled automatically driven gamma-ray afterloading equipment	IS 13450(Part 2/Sec 17):2007 Medical electrical equipment Part 2 Particular requirements for the safety Section 17 Automatically controlled brachytherapy afterloading equipment	do

The technical committee responsible for the preparation of this standard has reviewed the provisions of the following International Standards and has decided that they are acceptable for use in conjunction with this standard.

International Standard

Title

IEC 60601-2-8:1987

Medical Electrical Equipment—Part 2: Particular requirements for the safety of therapeutic X-ray generator

Only the English language text has been retained while adopting it in this Indian Standard, and as such the page numbers have been given afresh here since they are not the same as in IEC Publication.
