



## DRAFT INDIAN STANDARD IN WIDE CIRCULATION

Reference : CHD 30 (24903)P

Date : 15 February 2024

**TECHNICAL COMMITTEE : Nuclear Energy for Peaceful Applications , CHD 30**

To,

**All concerned**

Dear Madam/Sir,

The following document has been prepared by the Nuclear Energy for Peaceful Applications Sectional Committee, CHD 30. Please [click here](#) to view the document.

**Document Number : CHD 30 (24903) WC**

**Title of the document : MEASUREMENT OF RADIOACTIVITY IN THE ENVIRONMENT-AIR:  
RADON-222- PART 4 INTEGRATED MEASUREMENT METHOD FOR DETERMINING AVERAGE  
ACTIVITY CONCENTRATION USING PERSONAL PASSIVE DOSIMETER**

**Document Type : New Indian Standard**

*This document has following salient features which may require specific attention for your valuable comments:*

- 1) Radon ( $^{222}\text{Rn}$ ), along with its progeny, is considered to be main source of human exposure to natural radiation. UNSCEAR[1] suggests that, at the worldwide level, radon accounts for around 52 % of global average exposure to natural radiation. The radiological impact of isotope 222 (48 %) is far more significant than isotope 220 (4 %), while isotope 219 is considered negligible (see Annex A of IS 18066 (Part 1)). For this reason, references to radon in this document refer only to radon-222.*
- 2) Inadequately ventilated dwellings, confined workplaces, tourist caves, and underground workings, including mines, are identified as significant potential sources of radon. Prolonged exposure to elevated levels of  $^{222}\text{Rn}$  (radon) and its progeny has been linked to an increased risk of lung cancer. Additionally, confounding factors such as smoking can exacerbate the carcinogenic potential of  $^{222}\text{Rn}$  and its progeny. The soil gas is identified as the primary source of residential radon through infiltration pathways.*

Please examine the document and share your comments regarding further improvement in the document.

**Last date for sharing the comments is : 18 April 2024**

The comments should be shared in the prescribed template through this portal only; and the comments so received shall be taken up by the Sectional Committee for necessary action. For any other query, please write an email at [chd@bis.gov.in](mailto:chd@bis.gov.in) to the undersigned at Bureau of Indian Standard, Manak Bhawan, 9, Bahadur Shah Zafar Marg, New Delhi.

In case no comments are received, we would presume your approval of the documents. However, in case we receive any comments on the document, the same shall be put up to the Sectional Committee for necessary action.

Thanking You,

**Yours faithfully,**  
**(ITS ADMIN)**  
**Head (Chemical Department)**  
**Email: [chd@bis.gov.in](mailto:chd@bis.gov.in)**



## व्यापक परिचालन में मसौदा(दे)

हमारा सन्दर्भ : CHD 30 (24903)P

दिनांक : 15-02-2024

**तकनीकी समिति : Nuclear Energy for Peaceful Applications Sectional Committee, CHD 30**

**प्राप्तकर्ता : रूचि रखने वाले सभी निकाय**

महोदय/या,

**निम्नलिखित मसौदा तैयार किया गया है :**

**प्रलेख संख्या : CHD 30 (24903) WC**

**शीर्षक :**

कृपया इस/इन मानक(को)/संशोधन(नो) के मसौदे(दो) का अवलोकन करें और अपनी सम्मतियाँ यह बताते हुए भेजें कि यदि ये मानक(को) के संशोधन(नो) के रूप में प्रकाशित हो तो इन पर अमल करने में आपके व्यवसाय अथवा कारोबार में क्या कठिनाइयां आ सकती हैं।

**सम्मतियाँ भेजने की अंतिम तिथि : 18 April 2024**

सम्मतियाँ, यदि कोई हों तो, कृपया यहाँ क्लिक करके ऑनलाइन पोर्टल के माध्यम से ऊपर दी गयी अंतिम तिथि तक दर्ज कराएं।

यह/ये प्रलेख भारतीय मानक ब्यूरो की वेबसाइट [www.bis.gov.in](http://www.bis.gov.in) पर भी उपलब्ध है/हैं।

धन्यवाद।

भवदीय/भवदिया,  
विभाग प्रमुख का नाम : ITS ADMIN  
(Chemical Department)  
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