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**BUREAU OF INDIAN STANDARDS**

**MINUTES**

**12th Meeting of CHD 30 : WP 2**

**Virtual mode**

**Day and Date:** Friday, 25th April 2024

**Time:** 02:30 PM

**Mail Id:** [**chd30@bis.org.in**](mailto:chd30@bis.org.in)

**Mode-** Virtual meeting

**Convener:** Dr. S K Jha, BARC, Mumbai

**Member Secretary:** Mr. Pushpendra Kumar, Sc-C/Deputy Director, CHD, BIS

**Members Present**

1. Dr. S. K. Jha, BARC, Mumbai, Convener
2. Dr. Aditi C. Patra, BARC, Mumbai
3. Shri S. K. Sahoo, BARC, Mumbai
4. Dr. Rajesh Kumar, BARC, Mumbai
5. Shri Gopal P. Verma, BARC, Mumbai
6. Dr. Pradeep Narayan, Defense Research Development Organization, Delhi
7. Shri Nishikant Tyagi, Atomic Energy Regulatory Board, Mumbai
8. Dr. V. N. Jha, UCIL, Jharkhand

**ITEM 1 OPENING OF THE MEETING**

* 1. **Welcome of the Convener and Members by Bureau of Indian Standards**

On behalf of BIS, Member Secretary, extended a cordial welcome to Dr. S K Jha, the convener from BARC, Mumbai, as well as to all the valued members of the working panel CHD 30: WP 2.

* 1. **Opening Remarks by Convener, CHD 30**

Dr. S K Jha, the Convener, extended a warm welcome to all attendees at the 12th meeting of CHD 30: WP 2 and anticipated a fruitful discussion on the agenda items.

**ITEM 2 SCOPE AND COMPOSITION OF CHD 30: WP 2**

The working panel reviewed the scope and composition of the panel and it was observed that there are no changes required in it. The scope and composition of the panel is given below at Annex I-A. Also, the panel has noted the fresh nomination received from AERB, Mumbai.



**ITEM 3 DRAFT STANDARDS/ AMENDMENTS UNDER PRINTING/PUBLISHED**

**3.1 IS 14194 Part 1: 2020 Radionuclides in Environmental Samples — Methods of Estimation Part 1 Gross Beta Activity Measurement (Second Revision)**

The working panel noted that the revised draft of IS 14194 (Part 1) has been published as IS 14194 (Part 1) : 2023.

**3.2** **IS 14194 (Part 3/Sec 1) Radionuclides in Environmental Samples — Methods of Estimation Part 3 Uranium Sec 1 In Water Sample**

The working panel noted that the revised draft of IS 14194 (Part 3/Sec 1) has been published as IS 14194 (Part 3/Sec 1) : 2024.

**3.3 IS 14194 (Part 3/Sec 2) Radionuclides in Environmental Samples — Methods of Estimation Part 3 Uranium Sec 2 In Uranium Measurement in Geological and Biological Samples**

The working panel noted that the revised draft of IS 14194 (Part 3/Sec 2) is currently under printing.

**ITEM 4 DRAFT STANDARDS/ AMENDMENTS FOR FINALIZING**

**4.1 Standards on Measurement of radioactivity in the environment-Air: Radon-222**

The WP thoroughly examined the feedback provided by Dr. B K Sapra. Dr. V N Jha apprised the panel of ISO 11665-4, which outlines three test methodologies: using solid-state nuclear track detectors (SSNTD), electrets detectors, and activated charcoal. WP opted to draft an indigenous standard utilizing SSNTD as it is more suitable to Indian requirements, due to the inherent limitations of the other two methods. Additionally, the WP agreed to re review the document's foreword, will clearly mention why BIS chose not to adopt ISO 11665-4 but rather developed an indigenous standard.

Also, Dr. V N Jha, has informed that he will provide detailed justification of Dr. B K Sapra in written for presenting before the Sectional Committee meeting by within a week of the meeting.

Further, the Member Secretary urged the working panel to furnish the foreword for the draft document, which pertains to the indigenous standard of ISO 11665-6. Accordingly, the document will be sent for wide circulation for a period of two months.

**ITEM 5 DRAFT UNDER DEVELOPMENT**

**5.1 For Land Based Stationary Cobalt-60 Gamma Irradiators**

The working panel discussed the matter, and Dr. Aditi C. Patra informed Dr. Amit Srivastava had already submitted the initial drafts for three parts of the Land Based Stationary Cobalt-60 Gamma Irradiators, which were subsequently circulated for comments among the panel. However, to date, only one panel member has provided feedback. It was noted that several panel members remain inactive, prompting a suggestion to revamp the panel. The Member Secretary requested Dr. Aditi C. Patra to furnish a list of members along with their level of participation, distinguishing between active and inactive members. This assessment will facilitate the removal of inactive members and the addition of more active participants to the panel. Subsequently, once the panel is reconstituted the draft will be circulated again for comments and further refinement.

**5.2 Radionuclides in Environmental Samples — Methods of Estimation Part 2 Radium-226 activity Measurement**

The working panel deliberated on the issue, during which Dr. Aditi C. Patra informed that she will provide detailed summary outlining the deviations between indigenous standard and ISO 13165 series standards. Which will also be incorporated into the foreword of indigenous standard to ensure informed decision.

The panel requested Dr. Patra to provide the revised draft along with a justification for deviation from ISO standards so that document could be taken up for development of Indian Standard.

**BIS Secretariat observation:** Please note, it was observed that on the subject the BIS is already have Indian Standard IS 14194 (Part 4), which is recently revised in year of 2021. Hence it is not required to have separate on the same subject.

**ITEM 6 NEW SUBJECTS UNDER CONSIDERTAION**

**6.1 Proposed ISO Standards for Developing Indigenous Standards**

During the discussion, the working panel deliberated on the matter, during which Dr. S K Jha highlighted that the panel was working on Radon measurement standards. Once the task completed the panel will review other subject and propose the recommendations to BIS.

Further, the convener, Dr. S. K. Jha, informed that Shri. Gopal P. Verma would review the excel spreadsheet and distribute the list of ISO Standards that needed modification to the subcommittee members in order to determine whether or not they should be adopted as Indian Standards and to detail any modifications that would need to be made before doing so.

**6.2 New Subjects received from Standardization cell constituted at Department of Atomic Energy (DAE)**

The working panel considered the subjects received from Standardization cell constituted at Department of Atomic Energy (DAE). During the review, it was observed that the subject received from BARC will fall under the scope of this panel. Consequently, it was informed by Dr. S. K. Jha, that initial drafts of most of these subjects have been prepared. However, modifications are needed to align them with the BIS guidelines. The Member Secretary requested the panel to review these drafts and provide initial drafts to BIS Secretariat so that same could take up for development of Indian Standards.

**ITEM 7 ACTIVITIES AT ISO**

The panel noted the information about ISO work.

**ITEM 8 ANY OTHER BUSINESS**

There being no other business, the meeting of the panel ended with a vote of thanks to the Convener and other members of the panel.