BUREAU OF INDIAN STANDARDS

Program of Work

CHD 30: Nuclear Energy for Peaceful Applications

Scope:

a) To formulate Indian Standards for Nuclear Energy (for peaceful applications), for terminology, units and symbols, specifications in the field such as: - Materials for nuclear services (radioactive & non-radioactive), methods of sampling and test for physical, chemical and isotopic analysis of various materials, Specifications for nuclear grade chemicals. - Radiological protection - specifications for personal protective equipments, individual monitoring, area & personal monitoring devices & their calibration. - Nuclear energy including nuclear fuel cycle & technology, reactor technology & technology related to application of ionizing radiations. - Safety and environment surveillance in all the plants using and/or producing ionizing radiations

Liaison:

ISO TC-147 SC-3 (P): Radioactivity measurements ISO TC-85 (P): Nuclear energy, nuclear technologies, and radiological protection ISO TC-85 SC-2 (P): Radiological protection ISO

TC-85 SC-5 (P): Nuclear installations, processes and technologies ISO TC-85

SC-6 (**P**): *Reactor technology*

Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 11490 : 1985	Methods of radiological test for	January, 2024	-	
	Reviewed In: 2024	water			
	Decision taken to				
	Reaffirm and				
	Archive				
2	IS 14194 (Part 1):	Radionuclides in environmental		-	Indigenous
	2023	samples - Methods of estimation :			
		Part 1 Gross beta activity			
		measurement (Third Revision)			
3	IS 14194 (Part 2):	Radionuclides in environmental		-	Indigenous
	2022	samples - Methods of estimation :			
		Part 2 Gross alpha activity			
		measurement (Second Revision)			
4	IS 14194 (Part 3/Sec	Radionuclides in environmental		-	Indigenous
	1): 2024	samples - Method of estimation :			
		Part 3 Uranium : Sec 1 In water			
		sample (Second Revision)			
5	IS 14194 (Part 3/Sec	Radionuclides in environmental		-	Indigenous
	2): 2024	samples - Methods of estimation :			
		Part 3 Uranium : Sec 2 Uranium			
		measurement in geological and			
		biological samples			
6	IS 14194 : 2021	Radionuclides in Environmental		-	Indigenous
		Samples - Method of Estimation			
		Part 4 Radium (First Revision)			
7	IS 14194 (Part 5):	Radionuclides in environmental	September, 2023	-	Indigenous
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	2013	samples - Methods of estimation:			
	Reviewed In: 2023	Part 5 Sampling			
	Decision taken to				
	Reaffirm and				
	Archive				
8	IS 15810 : 2008	Lithium pentaborate -	September, 2023	-	Indigenous
	Reviewed In: 2023	Specification			
	Decision taken to				
	Reaffirm and				
	Archive				
9	IS 15837 : 2009	Anhydrous diboron trioxide -	March, 2024	-	Indigenous
	Reviewed In: 2024	Specification			
	Decision taken to				
	Reaffirm and				
	Archive				
10	IS 15850 : 2009	Nuclear grade boron carbide -	March, 2024	-	Indigenous
	Reviewed In: 2024	Specification			
	Decision taken to				
	Reaffirm and				
	Archive				
11	IS 15854 : 2009	Nuclear grade ion-exchange resins	March, 2024	-	Indigenous
	Reviewed In: 2024	- Specification			
	Decision taken to	-			
	Reaffirm and				
	Archive				
12	IS 16689 : 2018	Nuclear power plants - Reliability		-	Identical under dual
	ISO 6527 : 1982	data exchange - General guidelines			numbering
	ISO 6527 : 1982				
13	IS 16691 : 2018	Nuclear power plants -	May, 2023	-	Identical under dual
	ISO 8107 : 1993	Maintainability - Terminology	3 /		numbering
	Reviewed In: 2023	a a a a a a a a a a a a a a a a a a a			
	ISO 8107				
14	IS 16692 : 2018	Sampling airborne radioactive	January, 2023	_	Identical under single
		materials from the stacks and ducts	, , , , , , , , , , , , , , , , , , ,		numbering
	Reviewed In: 2023	of nuclear facilities			
	ISO 2889				
15	IS 16693 : 2021	Reference sources - Calibration of		_	Identical under dual
	8769	surface contamination monitors -			numbering
	ISO 8769	Alpha beta and photon emitters			
	2000,07	(First Revision)			
16	IS 16878 : 2018	Practice for dosimetry in an		_	Identical under dual
		electron beam facility for radiation			numbering
	2013	processing at energies between 80			
	ISO/ASTM 51818	and 300 ke 5			
17	IS 16879 : 2018	Practice for dosimetry in a gamma	December, 2023	-	Identical under dual
'	ISO/ASTM 51702 :	facility for radiation processing	200000000000000000000000000000000000000		numbering
	2013	processing			
	Reviewed In: 2023				
	ISO/ASTM 51702 :				
	2013				
18	IS 16880 : 2018	Practice for dosimetry in electron		_	Identical under dual
	ISO/ASTM 51431 :	beam and X-ray (Bremsstrahlung)			numbering
	2005	irradiation facilities for food			indiniooning
	ISO/ASTM 51431	processing			
19	IS 16883 : 2022	Enclosures for protection against		_	Identical under dual
1)	ISO 7212 :1986	ionizing radiation - Lead shielding		_	numbering
	ISO 7212 :1986	units for 50 mm and 100 mm thick			numbering
	150 /212 .1700	wall			
20	IS 16884 : 2018	Radiation protection - Apparatus	September, 2023	 	Identical under dual
20	15 10001. 2010	randon protoction ripparatus	50ptomoor, 2025	1	Tachticul under dual

15O 3099		ISO 3999 : 2004 Reviewed In : 2023	for industrial gamma radiography - Specifications for performance,			numbering
21 S 16885 2018 Reviewed In 2023 S 361 1975 Reviewed In 2023 Reviewed In 2024 Review			-			
ISO 361 1975 Reviewed In : 2023 150 361 22 18 1690C Part 1 2023 22 18 1690C Part 2 22 22 23 25 25 25 25	21		~	August, 2023	-	Identical under dual
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22 18 18902 (Part 1); Nuclear energy vocabulary: Part 1						
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ISO 12749-1: 2020 SIS 16902 (Part 2): Nuclear energy, nuclear technologies and radiological protection - Vocabulary: Part 2 radiological protection - Vocabulary: Part 2 radiological protection - Vocabulary: Part 3 SIS 12749-2: 2022 SIS 16902 (Part 4): Nuclear energy, nuclear technologies and radiological protection - Vocabulary: Part 4 SIS 012749-2: 2023 Iso 12749-4: 2015 Sis 012749-4: 2015 Sis 012749-5: 2018 Protection - Vocabulary: Part 4 SIS 012749-5: 2018 Protection - Vocabulary: Part 5 Sis 012749-5: 2018 Protection - Vocabulary: Part 5 Sis 012749-5: 2018 Nuclear energy, nuclear technologies and radiological protection - Vocabulary: Part 5 Sis 012749-5: 2018 Nuclear energy nuclear technologies and radiological protection - Vocabulary: Part 6 Sis 16992 (Part 6): Nuclear energy nuclear technologies and radiological protection - Vocabulary: Part 6 Sis 16998: 2020 Practice for Calibration of Routine Sis 012749-6: 2020 Practice for Calibration of Routine Sis 012749-6: 2020 Practice for Calibration of Routine Sis 06980-3: 2006 Sis 012749-6: 2020 Practice for Calibration of Routine Sis 06980-3: 2006 Practice for Calibration of Processing Sis 06980-3: 2006 Sis 012749-5: 2018 Sis 06980-3: 2006 Practice for Sis 06980-3: 2006 Sis 012749-5: 2018 Sis 06980-3: 2006 Practice for Sis 06980-3: 2007 Sis 012749-5: 2018 Sis 06980-3: 2006 Practice for Motod irradiation Sis 06980-3: 2006 Practice for Motod irradiation Sis 06980-3: 2007 Sis 012749-3: 2007 Sis 012749-3: 20074 Sis 012			= -			numbering
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26		ISO 12749-5 : 2018	protection - Vocabulary : Part 5			
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27						
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S IS 17060 : 2018 ISO/ASTM 51939 : 2017 Reviewed In : 2023 ASTM 51939 : 2017 SO/ASTM 51939 : 2017 SO/ASTM 51939 : 2017 Practice for dosimetry in radiation ISO/ASTM 51939 : 2017 Identical under dual numbering ISO/ASTM 52628 : 2020 IS 17062 : 2019 ISO/ASTM 52628 : 2020 ISO/ASTM 52701 : 2013 Reviewed In : 2024 ISO/ASTM 52701 : 2013 Reviewed In : 2024 ISO/ASTM 52701 : 2013 IS 17328 (Part 1) : Nuclear fuel technology - 2021 ISO 7097-1:2004 Determination of uranium in December, 2023 - Identical under dual numbering						
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		and solids - Iron (II)		
		reduction/potassium dichromate		
		oxidation titrimetric method		
33	IS 17328 (Part 2):	Nuclear fuel technology -	-	Identical under dual
	2021	Determination of uranium : Part 2		numbering
	ISO 7097-2:2004	Determination of uranium in		
	ISO 7097-2:2004	solutions, uranium hexafluoride		
		and solids - Iron (II) reduction		
		cerium (IV) oxidation titrimetric		
		method		
34	IS 17328 (Part 3):	Nuclear fuel technology â€"	-	Identical under dual
	2021	Determination of uranium : Part 3		numbering
	ISO 7476 :2003	Determination of uranium in		
	ISO 7476 :2003	uranyl nitrate solutions of nuclear		
		grade quality â€" Gravimetric		
		method		
35	IS 17328 (Part 4):	Nuclear fuel technology â€"	-	Identical under dual
	2021	Determination of uranium: Part 4		numbering
	ISO 8299 :2019	Determination of the isotopic and		
	ISO 8299 :2019	elemental uranium and plutonium		
		concentrations of nuclear materials		
		in nitric acid solutions by thermal-		
		ionization mass spectrometry		
36	IS 17329 : 2021	Nuclear fuel technology -	-	Identical under dual
	ISO 12183 :2016	Controlled-potential coulometric		numbering
	ISO 12183 :2016	assay of plutonium		
37	IS 17330 : 2021	Characterization principles for	-	Identical under dual
	ISO 18557 :2017	soils buildings and infrastructures		numbering
	ISO 18557 :2017	contaminated by radionuclides for		
		remediation purposes		
38	IS 17986 (Part 1):	Radiological Protection -X and	-	Identical under dual
	2023	Gamma reference radiation for		numbering
	ISO 4037-1 : 2019	calibrating dosemeters and doserate		
	ISO 4037-1:2019	meters and for determining their		
		response as a function of photon		
		energy- Part 1 : Radiation		
		characteristics and production		
		methods		
39	IS 17986 (Part 2):	Radiological protection - X and	-	Identical under dual
	2022	Gamma reference radiation for		numbering
	ISO 4037-2 : 2019	calibrating dosemeters and doserate		
	ISO 4037-2 : 2019	meters and for determining their		
		response as a function of photon		
		energy- Part 2 : Dosimetry for		
		radiation protection over the		
		energy ranges from 8 keV to 1.3		
		MeV and 4 MeV to 9 MeV		
40	IS 17986 (Part 3):	Radiological protection - X and	-	Identical under dual
	2022	Gamma reference radiation for		numbering
	ISO 4037-3 : 2019	calibrating dosemeters and doserate		
	ISO 4037-3: 2019	meters and for determining their		
		response as a function of photon		
		energy- Part 3 : Calibration of area		
		and personal dosemeters and the		
		measurement of their response as a		
		function of energy and angle of		
		incidence.		
				
41	IS 17986 (Part 4):	Radiological ProtectionX and	-	Identical under dual
41	IS 17986 (Part 4): 2023	Radiological ProtectionX and Gamma reference radiation for	-	Identical under dual numbering

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		calibrating dosemeters and doserate			
	ISO 4037-4 :2019	meters and for determining their			
		response as a function of photon			
		energy: Part 4 Calibration of area			
		and personal dosemeters in low			
		energy X reference radiation fields.			
42	: 2023	Nuclear energy - Reference beta-		-	Identical under dual
	ISO 6980-1 : 2022	particle radiation : Part 1 Methods			numbering
	ISO 6980-1:2022	of production (First Revision)			
43	IS 17994 (Part 2):	Nuclear energy - Reference beta-		-	Identical under dual
	2023	particle radiation : Part 2			numbering
	ISO 6980-2 : 2022	Calibration fundamentals related to			
	ISO 6980-2 : 2022	basic quantities characterizing the			
		radiation field			
44	IS 17994 (Part 3):	Nuclear energy - Reference beta-		-	Identical under dual
	2023	particle radiation : Part 3			numbering
	ISO 6980-3 : 2022	Calibration of area and personal			_
	ISO 6980-3:2022	dosemeters and the determination			
		of their response as a function of			
		beta radiation energy and angle of			
		incidence			
45	IS 17997 : 2022	Radiological protection -		-	Identical under dual
		Procedures for monitoring the dose			numbering
	ISO 15382 :2015	to the lens of the eye, the skin and			
	150 10002 12010	the extremities			
46	IS 18066 (Part 1):	Measurement of radioactivity in		_	Identical under dual
	2022	the environment - Air radon- 222 :			numbering
	ISO 11665-1 : 2019	Part 1 Origins of radon and its			nume or mg
	ISO 11665-1 : 2019	_			
	150 11003 1.2019	associated measurement methods			
47	IS 18066 (Part 3):	Measurement of radioactivity in		_	Identical under dual
''	2022	the environment - Air radon-222 :			numbering
	ISO 11665-3 : 2020				namoermg
	ISO 11665-3 : 2020	1			
	150 11003 3 . 2020	concentration of its short-lived			
		decay products			
48	IS 18066 (Part 8):	Measurement of radioactivity in		_	Identical under dual
10		the environment - Air : radon-222 :			numbering
	ISO 11665-8 : 2019	Part 8 Methodologies for initial			numbering
	ISO 11665-8 : 2019	_			
	150 11003 0 . 2017	buildings			
49	IS 18066 (Part 12):	Measurement of radioactivity in		_	Identical under dual
'		the environment - Air : radon-222 :			numbering
	ISO 11665-12 : 2018				namoonng
		diffusion coefficient in waterproof			
	2018	materials: membrane one-side			
		activity concentration measurement			
		method			
50	IS 18066 (Part 13):	Measurement of radioactivity in		_	Identical under dual
	· · · · · · · · · · · · · · · · · · ·	the environment - Air : radon-222 :			numbering
	ISO 11665-13 : 2017				namoonig
		diffusion coefficient in waterproof			
	2017	materials: membrane two-side			
	2017	activity concentration test method			
51	IS 18067 : 2023	Radiological protection - Sealed		_	Identical under dual
"	ISO 2919 : 2012	radioactive sources - General		-	numbering
	ISO 2919 : 2012 ISO 2919 : 2012	requirements and classification			numbering
52	IS 18068 : 2023	Radiation protection - Sealed			Identical under dual
]]2	ISO 9978 : 2020	sources - Leakage test methods		-	numbering
	150 3370 . 2020	sources - Leakage test methods			numbering

1SO 9978 : 2020	Identical under dual numbering
2023 Part 1 Characteristics and methods of production	Identical under dual numbering Identical under dual numbering Identical under dual numbering Identical under dual numbering
ISO 8529-1: 2021 methods of production 54 IS 18069 (Part 2): 2023 2: Calibration fundamentals of ISO 8529-2: 2000 radiation protection devices related ISO 8529-2: 2000 to the basic quantities characterizing the radiation field 55 IS 18070: 2023 Reference radiation fields for ISO 29661: 2012 radiation protection - Definitions ISO 29661: 2012 and fundamental concepts 56 IS 18111: 2023 Radiological protection - Criteria ISO 14146: 2018 radio production - Criteria ISO 14146: 2018 radio production - Criteria ISO 22127: 2019 radiophotoluminescent glass dosimeters for dosimetry audit In My X-Ray radiotherapy	Identical under dual numbering Identical under dual numbering Identical under dual numbering Identical under dual numbering
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Mv X-Ray radiotherapy	
58 IS 18282 (Part 1) : [Passive neutron dosimetry systems] -	
	Identical under dual
2023 Part 1 : Performance and test	numbering
ISO 21909-1 : 2021 requirements for personal	
ISO 21909-1 : 2021 dosimetry	T.1
59 IS 18282 (Part 2): Passive neutron dosimetry systems	Identical under dual
2023 Part 2 : Methodology and criteria	numbering
ISO 21909-2 : 2021 for the qualification of personal	
ISO 21909-2 : 2021 dosimetry systems in workplaces 60 IS 18533 (Part 1) : Radiological protection - Minimum	Identical under dual
60 IS 18533 (Part 1): Radiological protection - Minimum 2024 creiteria for electron	numbering
ISO 13304-1 : 2020 paramagmetoc resonance (ERP)	numbering
ISO 13304-1 : 2020 paramagnic to resonance (ERF) ISO 13304-1 : 2020 spectroscopy for retrospective	
dosimetry of ionizing radiation	
Part 1 : General principles	
61 IS 18533 (Part 2): Radiological protection - Minimum -	Identical under dual
2024 criteria for electron paramagnetic	numbering
ISO 13304-2 : 2020 resonance (ERP) spectroscopy for	C
ISO 13304-2 : 2020 retrospective dosimetry of ionizing	
radiation Part 2 : Ex human vivo	
tooth enamel dosimetry	
62 IS 18534 (Part 1): Measurement and prediction of the	Identical under dual
2024 ambient dose equivalent from	numbering
ISO 18310-1: 2017 patients receiving iodine 131	
ISO 18310-1 : 2017 administration after thyroid	
ablation Part 1 : During the	
hospitalization	
63 IS 18534 (Part 2): Measurement and prediction of the	Identical under dual
2024 ambient dose equivalent from	numbering
ISO 18310-2: 2021 patients receiving iodine 131	
ISO 18310-2 : 2021 administration after thyroid	
ablation Part 2 : External effective	
dose to the caregivers after release	
from the hospital	**
64 IS 18535 : 2024 Clinical dosimetry - Beta radiation -	Identical under dual
ISO 21439: 2009 sources for brachytherapy	numbering
ISO 21439: 2009	T.1411 1 1 1
65 IS 18536 : 2024 Clinical dosimetry - Dosimetry -	Identical under dual
ISO 28057: 2019 with solid thermoluminescence	numbering

	ISO 28057: 2019	detectors for photon and electron		
		radiations in radiotherapy		
66	IS 18605 : 2024	Glove box for handling radioactive	=	Indigenous
		material - Specification		
67	IS 18636 : 2024	Monitoring and internal dose	=	Indigenous
		assement for radiation workers		
		handling plutonium		

Standards under Development

	Projects Approved				
SI. No.	Doc No.	Title			
1	CHD 30 (26830)	Practice for using the Fricke Dosimetry System			
2	CHD 30 (26831)	Practice for use of a Ceric-Cerous Sulfate Dosimetry System			
3	CHD 30 (26832)	Practice for use of a Radiochromic Optical Waveguide Dosimetry System			
4	CHD 30 (26833)	Practice for use of Calorimetric Dosimetry Systems for Dose Measurements and Dosimetry			
		System Calibration in Electron Beams			
5	CHD 30 (26834)	Guide for Estimation of Measurement Uncertainty in Dosimetry for Radiation Processing			
6	CHD 30 (26835)	Guide for Absorbed-Dose Mapping in Radiation Processing Facilities			
7	CHD 30 (26836)	Nuclear Energy Nuclear Technologies and Radiological Protection Vocabulary Part 3 Nuclear			
		Installations Processes and Technologies			

Preliminary Draft Standards				
SI. No.	SI. No. Doc No. Title			
No Records Found				

Drafts Standards in WC Stage				
SI. No.	SI. No. Doc No. Title			
No Records Found				

	Draft Standards Completed WC Stage					
SI. No.	Doc No.	Title				
1	CHD 30 (24903)	MEASUREMENT OF RADIOACTIVITY IN THE ENVIRONMENT-AIR RADON-222- PART				
		4 INTEGRATED MEASUREMENT METHOD FOR DETERMINING AVERAGE ACTIVITY				
		CONCENTRATION USING PERSONAL PASSIVE DOSIMETER				
2	CHD 30 (25257)	Measurement of Environmental Tritium in Natural Water				
3	CHD 30 (25270)	Radiometry of Metallic Components and Structures using Sealed Radioactive Sources Code of				
		Practice				

		Finalized Draft Indian Standard		
SI. No.	SI. No. Doc No. Title			
No Records Found				

Finalized Draft Indian Standards under Print				
SI. No.	Doc No.	Title		
No Records Found				

Total Published Standards:57 Total Standards Under development:10

Aspect Wise Report

Product: 7 Code of Practices: 2 Methods of Test: 50 Terminology: 6

Dimensions: 0 System Standard: 0 Safety Standard: 1

 $\begin{aligned} & \text{Others}: 0 \\ & \text{Service Specification}: 0 \end{aligned}$

 $Process\ Specification: 0$

Unclassified: 0

Annexure-I :List of Indian Standards Withdrawn/Superseded

SI. No.	IS No. & Year	Title
1	IS 17061 : 2022	Practice for Dosimetry in Radiation Processing First Revision
	ISO/ ASTM 52628 : 2020	
	ISO/TS 24159 : 2022	

Annexure-II :List of Indian Product Standards

SI. No.	IS No. & Year	Title
1	IS 15810 : 2008	Lithium pentaborate - Specification
	Reviewed In: 2023	•
	Decision taken to Reaffirm	
	and Archive	
2	IS 15837 : 2009	Anhydrous diboron trioxide - Specification
	Reviewed In: 2024	
	Decision taken to Reaffirm	
	and Archive	
3	IS 15850 : 2009	Nuclear grade boron carbide - Specification
	Reviewed In: 2024	
	Decision taken to Reaffirm	
	and Archive	
4	IS 15854 : 2009	Nuclear grade ion-exchange resins - Specification
	Reviewed In: 2024	
	Decision taken to Reaffirm	
	and Archive	
5	IS 16883 : 2022	Enclosures for protection against ionizing radiation - Lead shielding units for 50 mm and 100 mm
	ISO 7212 :1986	thick wall
	ISO 21350: 2023	
6	IS 16884 : 2018	Radiation protection - Apparatus for industrial gamma radiography - Specifications for
	ISO 3999 : 2004	performance design and tests
	Reviewed In: 2023 ISO	
	3999	
7	IS 18605 : 2024	Glove box for handling radioactive material - Specification