BUREAU OF INDIAN STANDARDS

Program of Work

CHD 9 : Ceramicware

Scope: To formulate Indian Standards for terminology, methods of sampling and test; and

specification for: i) Ceramic Raw Materials; ii) Whiteware, all types of ceramic table ware (excluding porcelain insulators, sanitary ware, tiles, salt glazed pipes & fittings; and ceramic laboratory ware); iii) Technical Ceramics; and iv) Ceramic Coated Metal ware (excluding

wares used in hospitals)

Liaison: **ISO TC-166 (P):** Ceramic ware, glassware and glass ceramic ware in contact with food **ISO**

TC-206 (O): Fine ceramics

Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 10429 : 2011	Powdered talc for ceramic industry	January, 2024	1	Indigenous
	Reviewed In: 2024	- Specification (First Revision)			
2	IS 11464 : 2021	Quartz for Ceramic Industry -		-	Indigenous
		Specification (Second Revision)			
3	IS 11475 : 2002	Stoneware crockeryware -	January, 2018	=	Indigenous
	Reviewed In: 2018	Specification (Second Revision)			
4	IS 11477 : 2011	Pyrophyllite for ceramic industry -	March, 2021	-	Indigenous
	Reviewed In: 2021	Specification (First Revision)			
5	IS 12038 : 2024	Vitreous and Porcelain Enamels -		=	Identical under dual
	ISO 4531:2022	Release From Enamelled Articles			numbering
	ISO 4531:2022	in Contact with Food - Methods of			
		Test and Limits (Second Revision)			
6	IS 12038 : 2007	Vitreous and porcelain enamels -	March, 2017	=	Identical under dual
	ISO 4531-1	Release of lead and cadmium from			numbering
	Reviewed In: 2017	enamelled ware in contact with			
	ISO 4531:2022	food: Part 1 method of test (First			
		Revision)			
7	IS 12038 (Part 2):	Vitreous and porcelain enamels -	March, 2017	-	Identical under dual
	2007	Release of lead and cadmium from			numbering
	ISO 4531-2	enamelled ware in contact with			
	Reviewed In: 2017	food: Part 2 permissible limits			
	ISO 4531-2	(First Revision)			
8	IS 12621 : 1988	Bentonite for ceramic industry -	December, 2022	2	Indigenous
	Reviewed In: 2022	Specification			
9	IS 13273 : 1991	Vitreous enamelled inner tanks for	March, 2024	1	Indigenous
	Reviewed In: 2024	storage water heater - specification			
10	IS 13273 : 2024	Vitreous Enamelled Inner Tanks		=	Indigenous
		for Storage Water Heater -			
		Specification (First Revision)			
11	IS 14179 : 1999	Methods of test for ceramic	November, 2019	-	Indigenous
	Reviewed In: 2019	tableware			
12	IS 14705 : 1999	Vitreous china crockeryware -	November, 2019	-	Indigenous
	Reviewed In: 2019	Specification			
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13	IS 14721 : 1999 Reviewed In : 2019	Zinc oxide for ceramic industry - Specification	November, 2019	-	Indigenous
14	IS 15751 : 2024	Calcite for Ceramic Industry - Specification (First Revision)		-	Indigenous
15	IS 15752 : 2007 Reviewed In : 2017	Sericite for ceramic industry - Specification	March, 2017	1	Indigenous
16	IS 17502 : 2020	Methylene Blue Index of Clay - Method of Test		-	Indigenous
17	IS 17933 : 2022 ISO 14704 : 2016 ISO 14704 : 2016	Fine ceramics (advanced ceramics, advanced technical ceramics) - Test method for flexural strength of monolithic ceramics at room temperature		-	Identical under dual numbering
18	IS 17934 : 2022 ISO 20501 : 2019 ISO 20501 : 2019	Fine ceramics (advanced ceramics, advanced technical ceramics) - Weibull statistics for strength data		-	Identical under dual numbering
19	IS 17935 : 2022 ISO 18754 : 2020 ISO 18754 : 2020	Fine ceramics (advanced ceramics, advanced technical ceramics) - Determination of density and apparent porosity		-	Identical under dual numbering
20	IS 17936 : 2022 ISO 20507 : 2014 ISO 20507 : 2014	Fine ceramics (advanced ceramics, advanced technical ceramics) - Vocabulary		-	Identical under dual numbering
21	IS 17975 : 2022 ISO 14627 : 2012 ISO 14627 : 2012	Fine ceramics (advanced ceramics, advanced technical ceramics) - Test method for fracture resistance of silicon nitride materials for rolling bearing balls at room temperature by indentation fracture (IF) method		-	Identical under dual numbering
22	IS 17981 : 2022 ISO 17561 : 2016 ISO 17561 : 2016	Fine ceramics (advanced ceramics, advanced technical ceramics) - Test method for elastic moduli of monolithic ceramics at room temperature by sonic resonance		-	Identical under dual numbering
23	IS 17985 : 2022 ISO 26602:2017 ISO 26602:2017	Fine ceramics (advanced ceramics, advanced technical ceramics) - Silicon nitride materials for rolling bearing balls and rollers		-	Identical under dual numbering
24	IS 17991 : 2022 ISO 14705 : 2016 ISO 14705 : 2016	Fine ceramics (advanced ceramics, advanced technical ceramics) - Test method for hardness of monolithic ceramics at room temperature		-	Identical under dual numbering
25	IS 18221 : 2023 ISO 17562 : 2016 ISO 17562 : 2016	Fine ceramics (advanced ceramics, advanced technical ceramics) - Test method for linear thermal expansion of monolithic ceramics by push-rod technique		-	Identical under dual numbering
26	IS 2333 : 1992 Reviewed In : 2024	Plaster of paris for ceramic industry - Specification (Second Revision)	March, 2024	1	Indigenous
27	IS 2717 : 1979 Reviewed In : 2024	Glossary of terms relating to vitreous enamelware and ceramic - Metal systems (First Revision)	March, 2024	1	Indigenous
28	IS 2781 : 2020	Glossary of Terms Relating to Ceramicware (Third Revision)	-	-	Indigenous
<u> </u>				 	1

29	IS 2838 : 1964	Specification for stoneware	March, 2024	3	Indigenous
	Reviewed In: 2024	containers for general purposes			
30	IS 2839 : 1964	Specification for industrial	March, 2024	4	Indigenous
	Reviewed In: 2024	stoneware			
31	IS 2840 : 2021	China Clay for Ceramic Industry - Specification		-	Indigenous
32	IS 2857 : 2002	*	January 2010		To di san suo
32	Reviewed In : 2018	Earthenware crockeryware - Specification (Third Revision)	January, 2018	-	Indigenous
33	IS 3149 : 1994	Enamelware for home use -	November, 2019	1	Indigenous
33	Reviewed In : 2019	Specification (Second Revision)	November, 2019	1	margenous
34	IS 3505 : 2002	Porcelain crockeryware -	January, 2018		Indigenous
54	Reviewed In : 2018	Specification (Third Revision)	January, 2016	_	margenous
35	IS 3972 (Part 1):	Methods of Test for Vitreous		_	Identical under dual
33	2020	Enamelware Part 1: Production of			numbering
	ISO 28764	Specimens for Testing			numbering
	ISO 28764	Specimens for Testing			
36	IS 3972 (Part 2/Sec	Vitreous Enamelware - Method of			Not Equivalent
30	2): 2023	Test Part 2: Test Methods Section			1 Vot Equivalent
	,	2: Low and High Voltage Tests for			
	8289-1:2020, ISO	Detecting and Locating Defects			
	8289-2:2019	(Second Revision)			
37	IS 3972 (Part 2/Sec	Methods of Test for Vitreous		_	Identical under dual
31	3): 2020	Enamelware Part 2 Test Methods	-	_	numbering
	ISO 28706-2 : 2017	Section 3 Resistance to boiling			numbering
	ISO 28706-2:2017	acids, boiling liquids, alkaline			
	130 28/00-2.201/	liquids and their vapours (Second			
		Revision)			
38	IS 3972 (Part 2/Sec	Methods of Test for Vitreous		_	Identical under dual
50	4): 2020	Enamelware Part 2 Test Methods			numbering
	ISO 2747 : 1998	Section 4 Resistance to thermal			indinio Crinig
	ISO 2747	shock (Second Revision)			
39	IS 3972 (Part 2/Sec	Methods of Test for Vitreous		_	Identical under dual
37	5): 2020	Enamelware Part 2 Test Methods			numbering
	· /	Section 5 Resistance to hot alkali (indinio Crinig
	ISO 28706-4	Second Revision)			
40	IS 3972 (Part 2/Sec		November, 2019	-	Indigenous
	6): 1988	enamelware: Part 2 test methods:	,		
	Reviewed In: 2019	Sec 6 reflectance and specular			
		gloss (First Revision)			
41	IS 3972 (Part 2/Sec	Methods of test for vitreous	March, 2022	-	Identical under dual
	8): 1990	enamelware: Part 2 test methods:			numbering
	Reviewed In: 2022	Sec 8 resistance to heat (First			
	ISO 4530 : 2022	Revision)			
42	IS 3972 (Part 2/Sec	Vitreous Enamelware Part 2 Test		-	Identical under dual
	8): 2024	Methods Section 8 Resistance to			numbering
	ISO 4530 : 2022	Heat (Second Revision)			
	ISO 4530 : 2022				
43	IS 3972 (Part 2/Sec	Methods of test for vitreous	November, 2019	1	Not Equivalent
	9): 1991	enamelware: Part 2 test methods:			
	Reviewed In: 2019	Sec 9 resistance to dilute sulphuric			
	ISO 8290	acid (First Revision)			
44	IS 3972 (Part 2/Sec	Vitreous Enamelware Part 2 Test		-	Not Equivalent
	11): 2024	Methods Section 11 Resistance to			
	ISO/DIS 6370-1,2	Abrasion (Second Revision)			
45	IS 3972 (Part 2/Sec	Methods of test for vitreous	January, 2024	-	Not Equivalent
	11): 1995	enamelware: Part 2 test methods:			
		[C - 11 /E'		I	1
	Reviewed In: 2024	Sec 11 resistance to abrasion (First			
	Reviewed In: 2024 ISO/DIS 6370-1,2 IS 3972 (Part 2/Sec	Revision)	November, 2019		Indigenous

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	12):1999	enamelware: Part 2 test methods:			
	Reviewed In: 2019	Sec 12 resistance to torsion (First			
<u> </u>	YG 2072 (D. 21G	Revision)			.
47	IS 3972 (Part 2/Sec	Vitreous Enamelware Part 2 Test		-	Indigenous
	12): 2024	Methods Section 12 Resistance to			
10		Torsion (Second Revision)			
48	IS 3972 (Part 2/Sec	Methods of test for vitreous	March, 2021	-	Indigenous
	13): 2007	enamelware: Part 2 test methods:			
	Reviewed In: 2021	Sec 13 resistance to warpage (First			
12		Revision)			
49	IS 3972 (Part 2/Sec	Methods of test for vitreous	March, 2021	-	Indigenous
	14): 2007	enamelware: Part 2 test methods:			
	Reviewed In: 2021	Sec 14 resistance to adherence			
		(First Revision)			
50	IS 4589 : 2022	Plastic Clay and Washed Plastic		-	Indigenous
		Clay for Ceramic Industry -			
		Specification (Fourth Revision)			
51	IS 6988 : 2002	Fine (Bone) china crockeryware -	January, 2018	-	Indigenous
	Reviewed In: 2018	Specification (Second Revision)			
52	IS 7087 : 1979	Specification for ceramic tower	March, 2023	2	Indigenous
	Reviewed In: 2023	packings (First Revision)			
53	IS 7775 : 1975	Specification for ceramic grinding	November, 2019	1	Indigenous
	Reviewed In: 2019	media and lining		ļ	
54	IS 8017 : 1988	Specification for vitreous	November, 2019	1	Indigenous
	Reviewed In: 2019	enamelled reflectors for use with			
		illuminating device			
55	IS 8687 (Part 1):	Vitreous Enamels and Frits -		-	Indigenous
	2023	Method of Test Part 1 Sieve			
		Analysis (First Revision)			
56	IS 8687 (Part 2):	Methods of Test for Vitreous	-	-	Identical under dual
	2020	Enamels and Frits Part 2 Fusion			numbering
	ISO 4534 : 2010	Flow Test (First Revision)			
	ISO 4534				
57	IS 8709 : 2023	Colour Retention of Vitreous		-	Indigenous
		Enamel Coatings - Method of Test			
		(First revision)			
58	IS 9749 : 2020	Potash Feldspar and Soda Feldspar	-	-	Indigenous
		for Glass and Ceramic Industry —			
		Specification (Second Revision)			
59		Methods of test for and permissible	March, 2017	1	Not Equivalent
	Reviewed In: 2017	limits of toxic materials released			
	ISO 6486 -1,2. ISO	from ceramicware, vitreous			
	7086 - 1,2	enamelware, glassware and glass -			
		Ceramicware in contact with food			
		(First Revision)			

Standards under Development

Projects Approved				
SI. No.	SI. No. Doc No. Title			
No Records Found				

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

	Drafts Standards in WC Stage				
SI. No.	Doc No.	Title			
1	CHD 9 (24931)	Clay Utensils Specification			

	Draft Standards Completed WC Stage				
SI. No.	Doc No.	Title			
1	CHD 9 (23381)	Earthenware Crockeryware - Specification Fourth Revision			
2	CHD 9 (23550)	Stoneware Crockeryware - Specification Third Revision			
3	CHD 9 (23551)	Fine Bone China Crockeryware - Specification			
4	CHD 9 (23552)	Porcelain Crockeryware - Specification			
5	CHD 9 (24073)	Plaster of Paris for Ceramic and Glass Industry - Specification Third Revision			
6	CHD 9 (24977)	Stoneware Containers for General Purposes - Specification First Revision			
7	CHD 9 (24979)	Industrial Stoneware - Specification First Revision			
8	CHD 9 (24986)	Vitreous Enamelware and Ceramic-Metal Systems - Glossary Second Revision			

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

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

Total Published Standards:54 Total Standards Under development:9

Aspect Wise Report

Product: 23
Code of Practices: 0
Methods of Test: 25
Terminology: 3
Dimensions: 1
System Standard: 0
Safety Standard: 1
Others: 1

Service Specification: 0 Process Specification: 0 Unclassified: 0

Annexure-I :List of Indian Standards Withdrawn/Superseded

SI. No.	IS No. & Year	Title
1	IS 10432 (Part 1/Sec 2):	Methods of test for vitreous enamelware Part 1 Preparation of specimen for testing Sec 2
	1982	Enamelled cast iron
2	IS 12038 : 1987	Permissible Limits and Test Methods for Toxic Materials Released from Enamelware in Contact
	Reviewed In: 2012	with Food
3	IS 3972 : 1968	Methods Of Test For Vitreous Enamelware
4	IS 3972 (Part 1/Sec 2):	Methods of test for vitrous enamelware Part 1 preparation of specimen for testing Sec 2 enamelled
	1982	cast iron First Revision
	Reviewed In: 2020 ISO	
	2724	
5	IS 3972 (Part 2/Sec 1):	Methods of Test for Vitreous Enamelware Part 2 Test Methods Section 1 Resistance to corrosion

	2020 ISO 28706-1 : 2008 ISO 28706-1	by dilute acids at room temperature Second Revision
6	IS 3972 (Part 2/Sec 7): 1990 Reviewed In: 2017 ISO	Methods of test for vitreous enamelware Sec 7 resistance to boiling hydrochloric acid Part 2 test methods First Revision
	2743	

Annexure-II :List of Indian Product Standards

1	TO 10400 0011	
1	IS 10429 : 2011	Powdered talc for ceramic industry - Specification First Revision
	Reviewed In: 2024	
2	IS 11464 : 2021	Quartz for Ceramic Industry - Specification Second Revision
	ISO 14533-3:2017	
3	IS 11475 : 2002	Stoneware crockeryware - Specification Second Revision
	Reviewed In: 2018	
4	IS 11477 : 2011	Pyrophyllite for ceramic industry - Specification First Revision
	Reviewed In: 2021	
5	IS 12621 : 1988	Bentonite for ceramic industry - Specification
	Reviewed In: 2022	
6	IS 13273 : 2024	Vitreous Enamelled Inner Tanks for Storage Water Heater - Specification First Revision
7	IS 14705 : 1999	Vitreous china crockeryware - Specification
	Reviewed In: 2019	
8	IS 14721 : 1999	Zinc oxide for ceramic industry - Specification
	Reviewed In: 2019	
9	IS 15751 : 2024	Calcite for Ceramic Industry - Specification First Revision
10	IS 15752 : 2007	Sericite for ceramic industry - Specification
	Reviewed In: 2017	
11	IS 17985 : 2022	Fine ceramics advanced ceramics advanced technical ceramics - Silicon nitride materials for
	ISO 26602:2017	rolling bearing balls and rollers
	ISO 14644-1	
12	IS 2333 : 1992	Plaster of paris for ceramic industry - Specification Second Revision
	Reviewed In: 2024	
13	IS 2838 : 1964	Specification for stoneware containers for general purposes
	Reviewed In: 2024	
14	IS 2839 : 1964	Specification for industrial stoneware
	Reviewed In: 2024	
15	IS 2840 : 2021	China Clay for Ceramic Industry - Specification
	ISO 22915 Part 12 :2015	
16	IS 2857 : 2002	Earthenware crockeryware - Specification Third Revision
	Reviewed In: 2018	
17	IS 3149 : 1994	Enamelware for home use - Specification Second Revision
	Reviewed In: 2019	
18	IS 3505 : 2002	Porcelain crockeryware - Specification Third Revision
	Reviewed In: 2018	
19	IS 4589 : 2022	Plastic Clay and Washed Plastic Clay for Ceramic Industry - Specification Fourth Revision
	ISO7229:2022	
20	IS 6988 : 2002	Fine Bone china crockeryware - Specification Second Revision
	Reviewed In: 2018	
21	IS 7087 : 1979	Specification for ceramic tower packings First Revision
	Reviewed In: 2023	
22	IS 7775 : 1975	Specification for ceramic grinding media and lining
	Reviewed In: 2019	
23	IS 9749 : 2020	Potash Feldspar and Soda Feldspar for Glass and Ceramic Industry Specification Second Revision