

## BUREAU OF INDIAN STANDARDS

### Program of Work

#### CHD 13 : Water Quality For Industrial Purposes

**Scope:** To formulate Indian Standards on terminology, specifications, method of tests, codes of practices and guidelines for: a. Quality criteria of water for different industries. b. Treatment of industrial water based on various end uses. c. Issues related to industrial water chemistry such as scaling, fouling, corrosion and its remedial measures.

**Liaison:**

### Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 10391 : 1982 <span style="color: green;">Reviewed In : 2022</span>	Code of Practice for Chemical Cleaning of Boilers	January, 2022	1	Indigenous
2	IS 10392 : 1982 <span style="color: green;">Reviewed In : 2022</span>	Specification for Feed Water and Boiler Water for Low and Medium Pressure Boilers	January, 2022	1	Indigenous
3	IS 10496 : 1983 <span style="color: green;">Reviewed In : 2022</span>	Specification Boiler Water for Feed Water, and Condensate for Pressure Boilers	January, 2022	1	Indigenous
4	IS 1069 : 2021	Quality Tolerances for Water for Storage Batteries - Specification (Third Revision)		-	Indigenous
5	IS 1070 : 2023	Reagent Grade Water Specification (Fourth Revision)		-	Indigenous
6	IS 11671 : 2022	Glossary of Terms Relating to Boiler Water (First Revision)		-	Indigenous
7	IS 11970 : 2023	Guide for Condensate Polishing Power Plant (First Revision)		-	Indigenous
8	IS 12084 : 2018 <span style="color: green;">Reviewed In : 2023</span>	Morpholine - Specification (First Revision)	November, 2023	1	Indigenous
9	IS 12085 : 2020	Cyclohexylamine for Boiler Water Treatment - Specification ( First Revision )	-	-	Indigenous
10	IS 12086 : 2020	Hydrazine Hydrate - Specification ( First Revision )	-	-	Indigenous
11	IS 12479 : 2023	Methods for Analysis of Solvent Systems Used for the Removal of Water Formed Deposits (First Revision)		-	Indigenous
12	IS 13119 : 1991 <span style="color: green;">Reviewed In : 2024</span>	Ammonium bifluoride - Specification	March, 2024	-	Indigenous
13	IS 13268 : 2023	Demineralization Plant-Guidelines (First Revision)		-	Indigenous
14	IS 13624 : 1993	Methods of Sampling and Analysis	February, 2019	-	Indigenous

	Reviewed In : 2019	of Water Formed Deposits - Guidelines			
15	IS 13643 : 2022	Test for Corrosivity of Solvent used for Removal of Water Formed Deposits (First Revision)		-	Indigenous
16	IS 14199 : 1995 Reviewed In : 2022	Steam Purity - Methods of Sampling and Test	January, 2022	-	Indigenous
17	IS 15573 : 2018 Reviewed In : 2023	Polyaluminium Chloride (First Revision)	February, 2023	2	Indigenous
18	IS 1680 : 2022	Code of Practice for Treatment of Water for Low and Medium Pressure Land Boilers (Fourth Revision)		-	Indigenous
19	IS 17394 : 2020	Selection of Chemical Coagulant and Disinfectant in a Water Treatment Plant " Guidelines		-	Indigenous
20	IS 17735 : 2021	Aluminium Chlorohydrate — Specification		-	Indigenous
21	IS 1813 : 1961 Reviewed In : 2019	Code of Practice for Treatment of Water for Marine Boilers	February, 2019	1	Indigenous
22	IS 201 : 2022	Quality Tolerances for Water for Textile Industry (Third Revision)		-	Indigenous
23	IS 2724 : 2017 Reviewed In : 2022	Quality Tolerances for Water for Pulp and Paper Industry (First Revision)	March, 2022	-	Indigenous
24	IS 2725 : 2022	Quality Tolerances for Water for Rayon-Manufacturing Industry (First Revision)		-	Indigenous
25	IS 2859 : 1977 Reviewed In : 2024 Reaffirmed but not taken up for revision	Code of Practice for Treatment of Water for Locomotive Boilers (First Revision)	February, 2024	-	Indigenous
26	IS 3328 : 1993 Reviewed In : 2019	Quality Tolerances for Water for Swimming Pools (First Revision)	February, 2019	1	Indigenous
27	IS 4221 : 2022	Quality Tolerances for Water for Tanning Industry (First Revision)		-	Indigenous
28	IS 4343 : 2023	Code of Practice for Treatment of Water for High Pressure Boilers (Second Revision)		-	Indigenous
29	IS 4700 : 1968 Reviewed In : 2022	Quality Tolerances for Water for Fermentation Industry	January, 2022	1	Indigenous
30	IS 7932 : 2024	Boiler Water Treatment Compounds - Specification		-	Indigenous
31	IS 8188 : 1999 Reviewed In : 2020	Treatment of Water for Cooling Towers - Code of Practice (First Revision)	October, 2020	1	Indigenous
32	IS 8914 : 2022	Quality Tolerances for Water for Vitreous Enamel Industry (Second Revision )		-	Indigenous

### Standards under Development

#### Projects Approved

SI. No.	Doc No.	Title
<i>No Records Found</i>		

### Preliminary Draft Standards

SI. No.	Doc No.	Title
<i>No Records Found</i>		

### Drafts Standards in WC Stage

SI. No.	Doc No.	Title
1	CHD 13 (25774) Revision of: IS 13624:1993	Methods of Sampling and Analysis of Water Formed Deposits Guidelines First Revision

### Draft Standards Completed WC Stage

SI. No.	Doc No.	Title
1	CHD 13 (24438) Revision of: IS 13624:1993	Specification for Feed Water Boiler Water and Condensate Water for High Pressure Boilers First Revision
2	CHD 13 (24592) Revision of: IS 13624:1993	Code of practice for treatment of water for marine boilers First Revision
3	CHD 13 (24671) Revision of: IS 13624:1993	Specification for feed water and boiler water for low and medium pressure boilers First Revision
4	CHD 13 (25084) Revision of: IS 13624:1993	Ammonium Bifluoride Specification First Revision

### Finalized Draft Indian Standard

SI. No.	Doc No.	Title
<i>No Records Found</i>		

### Finalized Draft Indian Standards under Print

SI. No.	Doc No.	Title
<i>No Records Found</i>		

**Total Published Standards:32 Total Standards Under development:5**

### Aspect Wise Report

Product : 15  
Code of Practices : 12  
Methods of Test : 4  
Terminology : 1  
Dimensions : 0  
System Standard : 0  
Safety Standard : 0  
Others : 0  
Service Specification : 0  
Process Specification : 0  
Unclassified : 0

### Annexure-I :List of Indian Standards Withdrawn/Superseded

SI. No.	IS No. & Year	Title
1	IS 10127 : 1982	Guidelines for utilization and disposal of solid wastes from coal mining and washery industries
2	IS 10152 : 1982	Guidelines for utilization and disposal of solid wastes from paper industry
3	IS 10193 (Part 1) : 1982	Limits for ambient air quality Part 1 Sulphur dioxide and particulate matter

4	IS 10693 (Part 1) : 1983	Limits for emission of particulate matter from cement plants Part 1 Kilns
5	IS 10693 (Part 2) : 1987	Limits for emission of particulate matter from cement plants Part 2 Mills
6	IS 11247 : 1985	Limits for emission from iron and steel plants
7	IS 12282 : 1988	Limits for emission for carbon black industry
8	IS 12283 : 1988	Limits for emission from calcium carbide industry
9	IS 13967 : 1993	Environmental management systems
10	IS 1620 : 1961	Methods of test chemical for industrial water
11	IS 1621 : 1963	Methods of sampling of industrial water for physical and chemical tests
12	IS 2296 : 1982	Tolerance limits for inland surface water subject to pollution
13	IS 2488 (Part 1) : 1966 Reviewed In : 1999	Methods of Sampling and Test for Industrial Effluents Part I
14	IS 2488 (Part 4) : 1974	Methods of Sampling and Test for Industrial Effluents - Part IV
15	IS 2490 (Part 1) : 1981	Tolerance limits for industrial effluents discharged into inland surface waters Part 1 - General limits
16	IS 2490 (Part 2) : 1974	Tolerance limits for industrial effluents Part 2 - Distillery industry
17	IS 2490 (Part 3) : 1985	Tolerance limits for industrial effluents Part 3 - Tanning industry
18	IS 2490 (Part 4) : 1974	Tolerance limits for industrial effluents discharged into inland surface waters Part 4 - Strawboard industry
19	IS 2490 (Part 5) : 1974	Tolerance limits for industrial effluents discharged into inland surface waters Part 5 - Electroplating industry
20	IS 2490 (Part 6) : 1985	Tolerance limits for industrial effluents Part 6 - Dyestuff and dye intermediate manufacturing industry
21	IS 2490 (Part 7) : 1976	Tolerance limits for industrial effluents discharged into inland surface waters Part 7 - Coke ovens
22	IS 2490 (Part 8) : 1985	Tolerance limits for industrial effluents Part 8 - Phosphatic fertilizer industry
23	IS 2490 (Part 9) : 1977	Tolerance limits for industrial effluents Part 9 - Nitrogenous fertilizer industry
24	IS 2490 (Part 10) : 1985	Tolerance limits for industrial effluents Part 10 - Rubber producing industry
25	IS 3306 : 1974	Tolerance limits for industrial effluents discharged into public sewers
26	IS 3307 : 1977	Tolerance limits for industrial effluents discharged on land for irrigation purposes
27	IS 4733 : 1972 Reviewed In : 1992	Methods Of Sampling And Test For Sewage Effluents
28	IS 4764 : 1973	Specification for metal folding chairs First Revision
29	IS 5061 (Part 1) : 1978	Guide for treatment and disposal of effluents of pulp paper and board industries Part 1 - For mills with chemical recovery system
30	IS 5183 : 1977	Guide for treatment of effluents of tanning industry
31	IS 7453 : 1974	Guide for treatment of effluents of electroplating industry
32	IS 7968 : 1976	Tolerance limits for industrial effluents discharged into marine coastal areas

33	IS 8635 : 1977	Limits for gaseous emission from sulphuric acid and phosphatic fertilizer industries
34	IS 8636 : 1983	Limits for gaseous emission from petroleum refineries
35	IS 8829 : 1978	Guidelines for micrometeorological techniques in air pollution studies
36	IS 9005 : 1978	Limits for gaseous emission from nitric acid and nitrogenous fertilizer industries
37	IS 9233 (Part 1) : 1985	Limit for gaseous emissions from man-made fibre plants Part 1 Cellulose fibres
38	IS 9533 : 1980	Guidelines for selection of methods of urban solid wastes disposal
39	IS 9622 : 1980	Guide for management of solid wastes

### Annexure-II :List of Indian Product Standards

Sl. No.	IS No. & Year	Title
1	IS 10392 : 1982 Reviewed In : 2022	Specification for Feed Water and Boiler Water for Low and Medium Pressure Boilers
2	IS 10496 : 1983 Reviewed In : 2022	Specification Boiler Water for Feed Water and Condensate for Pressure Boilers
3	IS 1069 : 2021 ISO/TR 22201-3:2016	Quality Tolerances for Water for Storage Batteries - Specification Third Revision
4	IS 1070 : 2023	Reagent Grade Water Specification Fourth Revision
5	IS 12084 : 2018 Reviewed In : 2023	Morpholine - Specification First Revision
6	IS 12085 : 2020	Cyclohexylamine for Boiler Water Treatment - Specification First Revision
7	IS 12086 : 2020	Hydrazine Hydrate - Specification First Revision
8	IS 13119 : 1991 Reviewed In : 2024	Ammonium bifluoride - Specification
9	IS 15573 : 2018 Reviewed In : 2023	Polyaluminium Chloride First Revision
10	IS 17735 : 2021 ISO 3585:1998	Aluminium Chlorohydrate Specification
11	IS 2724 : 2017 Reviewed In : 2022	Quality Tolerances for Water for Pulp and Paper Industry First Revision
12	IS 2725 : 2022	Quality Tolerances for Water for Rayon-Manufacturing Industry First Revision
13	IS 3328 : 1993 Reviewed In : 2019	Quality Tolerances for Water for Swimming Pools First Revision
14	IS 4700 : 1968 Reviewed In : 2022	Quality Tolerances for Water for Fermentation Industry
15	IS 7932 : 2024	Boiler Water Treatment Compounds - Specification