



MAPPING OF INDIAN STANDARDS TO SCHEMES/MISSIONS OF GOVERNMENT OF INDIA MINISTRY OF JAL SHAKTI

BUREAU OF INDIAN STANDARDS

Ministry of Consumer Affairs,
Food and Public Distribution
Government of India

भारतीय मानक ब्यूरो
उपभोक्ता मामले, खाद्य और
सार्वजनिक वितरण मंत्रालय
भारत सरकार





Foreword

BIS being the National Standards Body of India has the onus of leading the Standardization activities in the nation, BIS has taken up a monumental task of mapping of applicable Indian Standards to government schemes/missions run by various ministries. Extensive brainstorming exercise was done by officers of Standardization and Certification departments to map more than 3200 Indian Standards towards 75 government schemes/missions panning across 29 Ministries/Departments of Government of India.

Following key advantages are envisaged through this exercise:

- ☐ Products procured by Central/State Government Departments for implementation of schemes are of right quality and adhere to Indian Standards.
- ☐ Wherever there are certain processes/services involved, the executive departments follow right code of practices.
- ☐ In case of certain products/processes/services for which Indian Standards are not available; such gap areas are identified in timely manner and respective technical committees can take up the matter for formulation of standards on such areas.
- ☐ Standards and quality culture is imbibed in central/state government departments across all levels, as adherence to Indian Standards fosters a culture of quality and reliability within government departments.
- ☐ For future schemes/missions government departments can proactively get involved with BIS for providing the necessary assistance pertaining to standardization needs related to upcoming schemes/missions.
- ☐ This will assist Ministries in preparing Annual Work Programme for Standardization.

The Indian Standards for each scheme mission have been classified into two broad categories:

- ☐ Product Standards
- ☐ Other than Product Standards

For each of these broad categories we have further identified:

- ☐ Standards Available
- ☐ Standards Under Development
- ☐ Areas Identified for Standardization in Future

Furthermore, mandatory standards under Quality Control Order (QCO) have been marked in dark shades.

With the mapping exercise BIS aims to contribute further towards a more effective and efficient implementation of various schemes/missions run by government and to imbibe quality culture across all levels where these schemes are making an impact.

This booklet includes standards relevant to respective Ministry/Department and is a part of Schemes through Standards document available on BIS website. Complete Schemes through Standards document can be accessed through following link:

https://www.bis.gov.in/wp-content/uploads/2023/07/Mapping-of-Schemes_Missions-of-Government-of-India.pdf

The document is of evolutionary nature and same has been prepared as discussion document. BIS will keep on updating this document based on inputs received from Central/State Ministries and Departments.

Indian Standards are readily available for download on BIS website under “Know Your Standards” tab and can be accessed through link or QR code mentioned below:



https://www.services.bis.gov.in/php/BIS_2.0/bisconnect/knowyourstandards/indian_standards/isdetails

Indian Standards can be searched by any of the following ways:

- a) By IS Number
- b) By Keyword/Standard Title



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Section 1: Standards Pertaining to Civil Works **and Related Electrical Works**

About this Section

This list contains standards on commonly used materials related to civil works and also includes standards related to construction materials and electrical installations. This list aims to help the reader to identify standards for common aspects of civil works.

PART A1: Product Standards related to Civil Works

Cement	
IS 269: 2015	Ordinary Portland Cement — Specification (<i>Sixth Revision</i>)
IS 16415:2015	Composite Cement — Specification
IS 1489 (Part 1):2015	Portland Pozzolana Cement — Specification: Part 1 Fly Ash Based
IS 1489 (Part 2):2015	Portland Pozzolana Cement — Specification: Part 2 Calcined Clay Based (<i>Fourth Revision</i>)
IS 3812 (Part 2):2013	High Alumina Cement for Structural Use — Specification (<i>First Revision</i>)
IS 455:2015	Portland Slag Cement — Specification (<i>Fifth Revision</i>)
IS 8042:2015	White Portland Cement — Specification (<i>Third Revision</i>)
IS 8041: 1990	Rapid Hardening Portland Cement — Specification (<i>Second Revision</i>)
IS 16714:2018	Ground Granulated Blast Furnace Slag for Use in Cement, Mortar and Concrete — Specification
Construction Materials	
IS 15658: 2021	Concrete Paving Blocks — Specification (<i>First Revision</i>)
IS 15778: 2007	Chlorinated Polyvinyl Chloride (CPVC) Pipes for Potable Hot and Cold Water Distribution Supplies — Specification
IS 383:2016	Coarse and Fine Aggregates for Concrete — Specification (<i>Third Revision</i>)
IS 2185 (Part 1):2005	Concrete Masonry Units — Specification: Part 1 Hollow and Solid Concrete Blocks (<i>Third Revision</i>)
IS 217: 2018	Cutback Bitumen — Specification (<i>Third Revision</i>)
IS 1786:2008	High Strength Deformed Steel Bars and Wires for Concrete Reinforcement — Specification (<i>Fourth Revision</i>)
IS 7834 Part 1:1987	Injection Moulded PVC Socket Fittings with Solvent Cement Joints for Water Supplies: Part 1 General Requirements
IS 432 (Part 1):1982	Mild Steel and Medium Tensile Steel Bars and Hard-Drawn Steel Wire for Concrete Reinforcement: Part 1 Mild Steel and Medium Tensile Steel Bars
IS 432 (Part 2):1982	Mild Steel and Medium Tensile Steel Bars and Hard-Drawn Steel Wire for Concrete Reinforcement: Part 2 Hard-Drawn Steel Wire
IS 73: 2013	Paving Bitumen — Specification (<i>Fourth Revision</i>)

IS 458:2021	Precast Concrete Pipes (with and without Reinforcement)
IS 3812 (Part 1):2013	Pulverized Fuel Ash — Specification: Part 1 for use as Pozzolana in Cement, Cement Mortar and Concrete (<i>Third Revision</i>)
IS 3812 (Part 2):2013	Pulverized Fuel Ash — Specification: Part 2 for use as Admixture in Cement Mortar and Concrete (<i>Third Revision</i>)
IS 16720:2018	Pulverized Fuel Ash-Cement Bricks — Specification
IS 17079:2019	Rubber Modified Bitumen (Rmb) - Specification
IS 6603: 2001	Stainless Steel Bars and Flats — Specification
IS 2556 (Part 1) :2021	Vitreous China Sanitary Appliances — Specification: Part 1 General Requirements (<i>Fourth Revision</i>)
IS 14982: 2022	Anti-Stripping Agents for Bitumen Addition — Specification
IS 3117: 2004	Bitumen Emulsion for Roads and Allied Applications Anionic Type — Specification (<i>First Revision</i>)
IS 8887: 2018	Bitumen Emulsion for Roads Cationic Type — Specification (<i>Third Revision</i>)
IS 15883 (Part 1)	Construction Project Management
IS 15808: 2008	Multi - Grade Bitumen for Use in Pavement Construction — Specification
IS 15462: 2019	Polymer Modified Bitumen Pmb Specification (<i>First Revision</i>)
IS 17052: 2018	Rejuvenating Agents for Hot Mix Recycling of Bituminous Surfacing — Specification
IS 16651:2017	High Strength Deformed Stainless Steel Bars and Wires for Concrete Reinforcement — Specification
Housing, Building Construction, Building Components	
IS 14846: 2000	Sluice Valve for Water Works Purposes (50 to 1200 mm Size) — Specification
IS 15391:2012	Solid Panel Foam UPVC Door Shutters — Specification
IS 2365: 2018	Steel Wire Suspension Ropes for Lifts, Elevators and Hoists — Specification (<i>Second Revision</i>)
IS 17546:2021	Chlorinated Polyvinyl Chloride (CPVC) Fittings for Potable Hot and Cold Water Distribution Supplies — Specification
IS 8360: 2022	Fabricated Polyethylene Fittings for Water Supply — Specification (<i>First Revision</i>)
IS 2202 (Part 1): 2023	Wooden Flush Door Shutters Solid Core Type Specification Part 1 Plywood Face Panels (<i>Seventh Revision</i>)
IS 2202 (Part 2): 2022	Wooden Flush Door Shutters Solid Core Type Specification Part 2 Particle Board High Density Fiber Board Medium Density Fiber Board and Hardboard Face Panels (<i>Fourth Revision</i>)
IS 2556 (Part 3): 2004	Vitreous Sanitary Appliances (Vitreous China) — Specification — Part 3: Specific Requirements of Squatting Pans
IS 17650 (Part 1): 2021	Water Efficient Plumbing Products Requirements: Part 1 Sanitaryware

IS 17650 (Part 2): 2021	Water Efficient Plumbing Products Requirements: Part 2 Sanitary Fittings
Pipes	
IS 13592: 2013	Unplasticized Polyvinyl Chloride (PVC-U) Pipes for Soil and Waste Discharge System Inside and Outside Buildings Including Ventilation and Rainwater System
IS 12818: 2010	Unplasticized Polyvinyl Chloride (PVC - U) Screen and Casing Pipes for Bore/ Tubewells
IS 4984:2016	Polyethylene Pipes for Water Supply — Specification (<i>Fifth Revision</i>)
IS 15450:2022	Polyethylene-Aluminium Polyethylene Composite Pressure Pipes for Hot and Cold Water Supplies — Specification (<i>First Revision</i>)
IS 15801:2008	Polypropylene-Random Copolymer Pipes for Hot and Cold Water Supplies — Specification
IS 4985:2021	Unplasticized PVC Pipes for Potable Water Supplies — Specification (<i>Fourth Revision</i>)
IS 15328:2003	Unplasticized Non-Pressure Polyvinyl Chloride (PVC-U) Pipes for use in Underground Drainage and Sewerage Systems — Specification
Steel for Structural Use	
IS 277:2018	Galvanised Steel Sheets
IS 4923:2017	Hollow Steel Section for Structural Use
IS 2062: 2011	Hot Rolled Medium and High Tensile Structural Steel
IS 6911: 2017	Stainless Steel Plate, Sheet and Strip — Specification
IS 1161: 2014	Steel Tubes for Structural Purposes — Specification
Fittings	
IS 14735: 1999	Unplasticized Polyvinyl Chloride (UPVC) Injection Moulded Fittings for Soil and Waste Discharge System for Inside and Outside Buildings Including Ventilation and Rain Water System
IS 14885:2022	Polyethylene Pipes for the Supply of Gaseous Fuels — Specification (<i>First Revision</i>)
IS 9271:2004	Unplasticized Polyvinyl Chloride (UPVC) Single Wall Corrugated Pipes for Drainage — Specification (<i>First Revision</i>)
IS 1703:2000	Water Fittings — Copper Alloy Float Valves (Horizontal Plunger Type) — Specification (<i>Fourth Revision</i>)



PART A2: Other than Product Standards related to Civil Works

Construction Materials	
SP 7: 2016	National Building Code of India
IS 10262:2019	Concrete Mix Proportioning — Guidelines (<i>Second Revision</i>)
IS 2541: 1991	Preparation and use of Lime Concrete — Code of Practice
IS 456: 2000	Plain and Reinforced Concrete - Code of Practice (<i>Fourth Revision</i>)
IS 4926:2003	Ready-Mixed Concrete — Code of Practice (<i>Second Revision</i>)
IS 5817: 1992	Preparation and use of Lime-Pozzolana Mixture Concrete in Buildings and Roads — Code of Practice
Building Construction	
IS 11384: 2022	Composite Construction in Structural Steel and Concrete — Code of Practice (<i>First Revision</i>)
IS 15797:2008	Roof Top Rainwater Harvesting — Guidelines
IS 15912:2018	Structural Design Using Bamboo — Code of Practice (<i>First Revision</i>)
IS 15916:2020	Building Design and Erection Using Prefabricated Concrete — Code of Practice
IS 15917:2020	Building Design and Erection Using Mixed/Composite Construction — Code of Practice
IS 16231 (Part 1):2019	Use of Glass in Buildings — Code of Practice: Part 1 General Methodology for Selection (<i>First Revision</i>)
IS 16231 (Part 2):2019	Use of Glass in Buildings — Code of Practice: Part 2 Energy and Light (<i>First Revision</i>)
IS 16231 (Part 3):2019	Use of Glass in Buildings — Code of Practice: Part 3 Fire and Loading (<i>First Revision</i>)
IS 16231 (Part 4):2019	Use Of Glass in Buildings — Code of Practice: Part 4 Safety Related to Human Impact (<i>First Revision</i>)
Water Supply & Sanitation	
IS 1172: 1993	Code of Basic Requirements for Water Supply, Drainage and Sanitation
IS 14961:2001	Guidelines For Rainwater Harvesting in Hilly Areas by Roof Water Collection System
Pipes and Fittings	
IS 7634 (Part 2):2012	Plastics Pipes Selection, Handling, Storage and Installation for Potable Water Supplies — Code of Practice: Part 2 Laying and Jointing of Polyethylene (PE) Pipes (<i>First Revision</i>)
IS 7634 (Part 3):2003	Plastic Pipes Selection, Handling, Storage and Installation for Potable Water Supplies — Code of Practice: Part 3 Laying and Jointing of UPVC Pipes (<i>First Revision</i>)
SP 57: 1993	Handbook for Pipes and Fittings for Drinking Water Supply



Infrastructure & Safety	
IS 13935:2009	Seismic Evaluation, Repair and Strengthening of Masonry Buildings — Guidelines (<i>First Revision</i>)
IS 14496 (Part 1):2020	Preparation of Landslide Hazard Zonation Maps in Mountainous Terrains — Guidelines: Part 1 Meso-Zonation
IS 14496 (Part 2):1998	Preparation of Landslide Hazard Zonation Maps in Mountainous Terrains — Guidelines: Part 2 Macro-Zonation
IS 15988:2013	Seismic Evaluation and Strengthening of Existing Reinforced Concrete Buildings — Guidelines
IS 17162:2020	Preparation of Landslide Risk Assessment Maps in Mountainous Terrains — Guidelines



PART A3: Product Standards related to Electrical Installations in Civil Works

Switchgear	
IS 12640 (Part 1): 2016	Residual Current Operated Circuit Breakers without Integral Overcurrent Protection for Household and Similar Uses (RCCBs): Part 1 General Rules
IS/IEC 60898 (Part 1): 2015	Electrical Accessories - Circuit Breakers for Overcurrent Protection for Household and Similar Installations: Part 1 Circuit — Breakers for AC Operation
IS/IEC 61008: 2010	Residual Current Operated Circuit Breakers Without Integral Over Current Protection
Energy Management	
IS 16444 (Part 1): 2015	AC Static Direct Connected Watthour Smart Meter Class 1 and 2 — Specification
IS 16444 (Part 2): 2017	AC Static Transformer Operated Watthour and VAR - Hour Smart Meters, Class 0.2 S, 0.5 S and 1.0 S: Part 2 Specification Transformer Operated Smart Meters
IS 16476 (Part 1): 2017	Led Based Solar Lantern Part 1 — Specification
IS 16614 (Part 2): 2022	Double-Capped Led Linear Lamps Part 2 — Performance Specification
Electrical Appliances	
IS 1391 (Part 1): 2017	Room Air Conditioners — Specification: Part 1 Unitary Air Conditioners
IS 1391 (Part 2): 2018	Room Air Conditioners — Specification: Part 2 Split Air Conditioners
IS 19014: 2022	Household Electric Cooking Appliances — Performance Requirements of Electric Hobs
IS 2082 :2018	Stationary Storage Type Electric Water Heaters — Specification (<i>Fifth Revision</i>)
IS 374: 2019	Specification For Electric Ceiling Type Fans (<i>Third Revision</i>)
Power Systems	
IS 9537 (Part 1 to Part 6)	Conduits for Electrical Installations
IS 1180 (Part 1): 2014	Outdoor Type Oil Immersed Distribution Transformers Up to and Including 2 500 kVA, 33kV — Specification Part 1 Mineral Oil Immersed
IS 1180 (Part 3): 2021	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and Including 2 500 kVA, 33 kV — Specification Part 3 Natural/Synthetic Organic Ester Liquid Immersed
IS 1293:2019	Plugs And Socket- Outlets of Rated Voltage up to and Including 250 Volts and Rated Current up to and Including 16 Amperes — Specification (<i>Fourth Revision</i>)
IS 3854: 1997	Switches for Domestic and Similar Purposes
IS 1554 (Part 1): 1988	Specification For PVC Insulated (Heavy Duty) Electric Cables: Part 1 for Working Voltages up to and including 1100 V (<i>Third Revision</i>)

IS 1554 (Part 2): 1988	Specification For PVC Insulated (Heavy Duty) Electric Cables: Part 2 For Working Voltages From 3.3 kV up to and Including 11 kV (<i>Second Revision</i>)
IS 694: 2010	Polyvinyl Chloride Insulated Unsheathed and Sheathed Cables/Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 V
IS 7098 (Part 1): 1988	Specification for Cross-linked Polyethylene Insulated PVC Sheathed Cables: Part 1 for Working Voltages up to and Including 1100 Volts
IS/IEC 60947 Series	Low-Voltage Switchgear and Control Gear
IS 13703: 1993	Low Voltage Fuses for Voltage not Exceeding 1 000 V AC or 1500 V DC
IS 14772: 2000	Enclosures for Accessories for Household and Similar Fixed Electrical Installations
Luminaries	
IS 10322 (Part 5 / Sec 1): 2012	Luminaires Part 5 Particular Requirements Sec 1 Fixed General Purpose Luminaires
IS 16102 (Part 2): 2017	Self — Ballasted Led Lamps for General Lighting Services: Part 2 Performance Requirements (<i>First Revision</i>)
IS 16103 (Part 1): 2012	Led Modules for General Lighting: Part 1 Safety Requirements
IS 16103 (Part 2): 2012	Led Modules for General Lighting: Part 2 Performance Requirements
IS 16107 (Part 2/ Sec 2): 2017	Luminaries Performance Part 2 Particular Requirements Section 2 Led Street Lighting Luminaire



PART A4: *Other than Product Standards* related to Electrical Installations in Civil Works

Code of Practice	
SP 30: 2023	National Electrical Code of India
IS 732: 2019	Code of Practice for Wiring Installations
IS 1255: 1983	Code of Practice for Installation and Maintenance of Cables up to and Including 33kV Rating
IS 2440:1975	Guide For Daylighting of Buildings (<i>Second Revision</i>)
IS 3646(Part 1):1992	Code of Practice for Interior Illumination: Part 1 General Requirements and Recommendations for Working Interiors (<i>First Revision</i>)
IS 6060:1971	Code of Practice for Daylighting of Factory Buildings
IS 7942:1976	Code of Practice for Daylighting of Educational Buildings
IS 9457:2005	Safety Colours and Safety Signs-Code of Practice (<i>First Revision</i>)
IS 16103 (Part 1): 2012	LED Modules for General Lighting: Part 1 Safety Requirements
Power Systems	
IS 16205(Part 1): 2017	Conduit Systems for Cable Management — General Requirements
IS/ IEC 60364-5-52: 2009-10	Low Voltage Electrical Installations — Selection and Erection of Electrical Equipment — Wiring Systems
IS 12063:1987	Classification of Degree of Protection by Enclosures of Electrical Equipment



Section 2: Standards Related to Management Systems

About this Section

This section encompasses published Management System standards that are applicable across schemes. These standards provide a systematic framework for organizations to establish, implement, maintain, and continually improve their management systems.

IS/ISO 9001: 2015	Quality Management Systems — Requirements
IS/ISO 31000: 2018	Risk Management — Guidelines
IS 16010: 2012	Good Governance — Guidance
IS/ISO 10006: 2017	Quality Management Systems — Guidelines for Quality Management in Projects
IS/ISO 10018: 2020	Quality Management Guidance for People Engagement
IS/ISO 10015: 2019	Guidelines For Competence Management and People Development
IS/ISO 30408: 2016	Human Resource Management — Guidelines on Human Governance
IS/ISO 30409: 2016	Human Resource Management — Workforce Planning
IS/ISO/TR 30406: 2017	Human Resource Management — Sustainable Employability Management for Organizations
IS/ISO 32210: 2022	Sustainable Finance — Guidance on the Application of Sustainability Principles for Organizations in the Financial Sector
IS/ISO 10014: 2021	Quality Management Systems — Managing an Organization for Quality Results — Guidance for Realizing Financial and Economic Benefits
IS/ISO 9004: 2018	Quality Management — Quality of an Organization - Guidance to Achieve Sustained Success
IS/ISO 12812 (Part 1 to 5): 2017	Core Banking — Mobile Financial Services
IS/ISO/TR 30406: 2017	Human Resource Management — Sustainable Employability Management for Organizations
IS/ISO 21503:2022	Project, Programme and Portfolio Management — Guidance on Programme Management



Section 3: Mapping of Scheme/Missions

National Water Mission

Ministry of Jal Shakti

About the Scheme/Mission

The National Water Mission, one of the eight National Missions under India's National Action Plan on Climate Change, aims to ensure integrated water resource management to conserve water, minimize wastage, and achieve equitable distribution. It focuses on increasing water use efficiency, promoting recycling of wastewater in urban areas, adopting new technologies for meeting water requirements in coastal cities, and developing basin—level management strategies to deal with climate change impacts. The mission emphasizes regulatory mechanisms, rehabilitation and expansion of irrigation systems, and incentivizing water—neutral technologies and irrigation methods.

Product Standards

Standards Published

Irrigation and drainage	
IS 3367:2023	Burnt Clay Tiles for Use in Lining Irrigation and Drainage Works — Specification (Third Revision)
Pipes and Fittings	
IS 16098 (Part 1):2013	Structured — Wall Plastics Piping Systems for Non- Pressure Drainage and Sewerage — Specification: Part 1 Pipes and Fittings With Smooth External Surface, Type A
IS 16098 (Part 2):2013	Structured — Wall Plastics Piping Systems for Non- Pressure Drainage and Sewerage — Specification: Part 2 Pipes and Fittings With Non—Smooth External Surface, Type B
for More Product Standards Pertaining to Civil Works, Please Refer Section 2 — Part A1	
Micro Irrigation System—Emitter	
IS 13487 : 1992	Irrigation Equipment — Emitters — Specification
Micro Irrigation System—Filter	
IS 12785 : 1994	Irrigation Equipment — Strainer — Type Filters — Specification (First Revision)
IS 14606 : 2022	Irrigation Equipment — Media Filter
IS 14743 : 1999	Irrigation Equipment — Hydrocyclone Filters — Specification
IS 17411 (Part 2) : 2020/ ISO 9912—2 : 2013	Agricultural Irrigation Equipment — Filters for Micro Irrigation Part 2 Strainer— Type Filters and Disc Filters
Micro Irrigation System—Pipe	
IS 12786 : 1989	Irrigation Equipment — Polyethylene Pipes for Irrigation Laterals — Specification
IS 13488 : 2008	Irrigation Equipment — Emitting Pipe Systems — Specification (First Revision)
IS 17425 : 2020	Irrigation Equipment — Quick Coupled Polyethylene Pipes and Fittings for Sprinkler Irrigation Systems — Specification



IS 14482 : 1997	Irrigation Equipment — Polyethylene Micro Tubes for Drip Irrigation — Specification
Micro Irrigation System—Sprinkler	
IS 14605 : 1998	Irrigation Equipment — Micro Sprayers – Specification
Pipes	
IS 3589:2001	Steel Pipes for Water and Sewage (168.3 to 2540 Mm Outside Diameter)
IS 8329 : 2000	Centrifugally Cast (Spun) Ductile Iron Pressure Pipes for Water, Gas and Sewage
IS 9556:20:00	Ductile Iron Fittings for Pressure Pipes for Water, Gas and Sewage
1568:56:00	Centrifugally Cast (Spun) Iron Pressure Pipes for Water, Gas and Sewage
IS 444 : 2017	Rubber Hoses, Textile — Reinforced, for General — Purpose Water Applications — Specification (<i>Fifth Revision</i>)
Pipes and Fittings	
IS 16098 (Part 1):2013	Structured — Wall Plastics Piping Systems for Non— Pressure Drainage and Sewerage — Specification: Part 1 Pipes and Fittings With Smooth External Surface, Type A
IS 16098 (Part 2):2013	Structured — Wall Plastics Piping Systems for Non— Pressure Drainage and Sewerage — Specification: Part 2 Pipes and Fittings With Non—Smooth External Surface, Type B
for More Product Standards Pertaining to Civil Works, Please Refer Section 2 — Part A1	
Sanitary Fittings	
IS 17650 (Part 2) : 2021	Water Efficient Plumbing Products Requirements: Part 2 Sanitary Fittings
Sanitary Ware	
IS 17650 (Part 1) : 2021	Water Efficient Plumbing Products Requirements: Part 1 Sanitary Ware
Water Proof Sheet	
IS 15351 : 2015	Agro Textiles – Laminated High Density Polyethylene (HDPE) Woven Geomembrane for Water Proof Lining – Specification (<i>Second Revision</i>)

Standards under Development

Irrigation
Remote Monitoring and Control System for Irrigation

Areas Identified for Standardization in Future

Proposed Subject
NA



Other than Product Standards

Standards Published

Canal	
IS 3872 : 2002	Lining of Canals With Burnt Clay Tiles — Code of Practice (<i>First Revision</i>)
IS 4515 : 2002	Stone Pitched Lining for Canals — Code of Practice (<i>Second Revision</i>)
IS 7113 : 2003	Soil — Cement Lining for Canals — Code of Practice (<i>First Revision</i>)
IS 9451 : 2022	Guidelines for Lining of Canals in Expansive Soils (<i>Third Revision</i>)
IS 10430 : 2000	Criteria for Design of Lined Canals and Guidance for Selection of Type of Lining (<i>First Revision</i>)
IS 9447 : 2023	Assessment of Seepage Losses in Canals By Analytical Method— Guidelines (<i>First Revision</i>)
Drainage Systems	
IS 11494: 1986	Code for Construction and Maintenance of Surface Farm Drainage Systems
IS 11495: 1986	Code for Design of Surface Farm Drainage System
IS 14632: 1999	Farm Drainage System – Performance Evaluation of Horizontal Subsurface Drainage — Guidelines
IS 10907: 1984	Code for Design of Farm Drainage Tile Or Pipe System
IS 9696: 1980	Code of Practice for Installation of Farm Drainage Tile Or Pipe System
Drinking Water	
IS 17482 : 2020	Drinking Water Supply Management System — Requirements for Piped Drinking Water Supply Service
IS/ISO 24536 : 2019	Service Activities Relating to Drinking Water Supply, Wastewater and Stormwater Systems — Stormwater Management — Guidelines for Stormwater Management in Urban Areas
Ground Water	
IS 15896 : 2011	Manual Methods for Measurement of Ground Water Level in A Well
IS 15897 : 2011	Surface Geophysical Surveys for Hydro Geological Studies
Hydrometer	
IS 15755 : 2007	Hydrometry — Geophysical Logging of Boreholes for Hydrogeological Purposes — Considerations and Guidelines for Making Measurements
IS 16094 : 2018	Hydrometry — Measuring The Water Level in A Well Using Automated Pressure Transducer Methods — Guidelines
Irrigation and Drainage	
for Standards Other Than Product Standards Pertaining to Civil Works, Please Refer Section 2— Part A2	
Irrigation Efficiencies	
IS 13062 : 1991	Irrigation Equipment and Systems — Evaluation of Field Irrigation Efficiencies – Guidelines



Micro Irrigation System	
IS 14791 : 2000	Prevention and Treatment of Blockage Problem in Drip Irrigation System — Code of Practice
IS 14792 : 2000	Irrigation Equipment — Design Installation and Operation of Sprinkler Irrigation Systems — Code of Practice
IS 10799 : 1999	Irrigation Equipment — Design Installation and Field Evaluation of Micro Irrigation Systems — Code of Practice (<i>First Revision</i>)
Micro Irrigation System—Sprinkler	
IS 12232 (Part 1) : 1996/ ISO 7749—1: 1995	Irrigation Equipment — Rotating Sprinkler : Part 1 Design and Operational Requirements (<i>First Revision</i>)
IS 12232 (Part 2) : 1995	Irrigation Equipment — Rotating Sprinkler : Part 2 Test Method for Uniformity of Distribution (<i>First Revision</i>)
Pipes and Fittings	
IS 6908:1991	Asbestos—Cement Pipes and Fittings for Sewerage and Drainage — Specification (<i>First Revision</i>)
Programme Management	
IS/ISO 10018 : 2020	Quality Management Guidance for People Engagement
Rain Water Harvesting	
IS 14961 : 2001	Guidelines for Rainwater Harvesting in Hilly Areas By Roof Water Collection System
Recharge	
IS 15792 : 2008	Artificial Recharge to Ground Water Guidelines
IS 15797 : 2008	Roof Top Rainwater Harvesting — Guidelines
River Basins	
IS 13028 (Part 1) : 2014	Guidelines for Integrated Planning, Development and Management of River Basins: Part 1 Overall Planning (<i>First Revision</i>)
Wastewater Management	
IS 17006 : 2018 ISO 24521 : 2016	Activities Relating to Drinking Water and Wastewater Services — Guidelines for The Management of Basic on — Site Domestic Wastewater Services
IS 16633 : 2017 ISO 24512:2007	Activities Relating to Drinking Water and Wastewater Services — Guidelines for The Management of Drinking Water Utilities and for The Assessment of Drinking Water Services
IS 16632 : 2017 ISO 24511:2007	Activities Relating to Drinking Water and Wastewater Services — Guidelines for The Management of Wastewater Utilities and for The Assessment of Wastewater Services
Water Footprint	
IS 14046 : 2014	Environmental Management Water Footprint Principles Requirements and Guidelines



Water Quality	
IS 13969 (Part 11) : 2018/ ISO 5667—11 : 2009	Water Quality — Sampling Part 11 Guidance on Sampling of Ground Waters (First Revision)
Water Reuse System	
IS 17622 (Part 1) : 2021	Water Reuse in Urban Areas Guidelines for Centralized Water Reuse System Part 1 Design Principle of A Centralized Water Reuse System
IS 17622 (Part 2) : 2021	Water Reuse in Urban Areas Guidelines for Centralized Water Reuse System Part 2 Management of A Centralized Water Reuse System
IS 17663 : 2021	Water Reuse in Urban Areas Guidelines for Water Reuse Safety Evaluation Assessment Parameters and Methods
IS 17664 : 2021	Treated Wastewater Reuse for Irrigation Guidelines for The Adaptation of Irrigation Systems and Practices to Treated Wastewater
IS 17665 (Part 1) : 2021	Guidelines for Performance Evaluation of Treatment Technologies for Water Reuse Systems Part 1 General
IS 17675 (Part 1) : 2021	Guidelines for Treated Wastewater Use for Irrigation Projects Part 1 The Basis of A Reuse Project for Irrigation
IS 17675 (Part 2) : 2021	Guidelines for Treated Wastewater Use for Irrigation Projects Part 2 Development of The Project
IS 17675 (Part 3) : 2021	Guidelines for Treated Wastewater Use for Irrigation Projects Part 3 Components of A Reuse Project for Irrigation
IS 17675 (Part 4) : 2021	Guidelines for Treated Wastewater Use for Irrigation Projects Part 4 Monitoring

Standards under Development

Broad Category
NA

Areas Identified for Standardization in Future

Proposed Subject
Service Standard on Hospital Wastewater Treatment Protocol
Service Standard on Water Conservation Protocol in Hospitals
Process Standard for Disposal of Mercury Based Medical Devices (Dental Amalgam, Thermometer)



Atal Bhujal Yojana

Ministry of Jal Shakti

About the Scheme/Mission

The Atal Jal Yojana (Atal Jal) aims to improve groundwater management in water—stressed areas of select states in India. It promotes community—led sustainable management through convergence of various ongoing schemes and active involvement of local communities. By strengthening institutional frameworks and fostering behavioural change, the scheme aims to achieve long—term sustainability of groundwater resources, benefiting marginalized farmers, government agencies, populations affected by floods and droughts, and the environment.

Product Standards

Standards Published

Pipes	
IS 4270 : 2001	Steel Tubes Used for Water Wells Specification
IS 3589:2001	Steel Pipes for Water and Sewage (168.3 To 2540 Mm Outside Diameter)
IS 13592: 2013	Unplasticized Polyvinyl Chloride (Pvc—U) Pipes for Soil and Waste Discharge System Inside and Outside Buildings Including Ventilation and Rainwater System

Standards under Development

Broad Category
NA

Areas Identified for Standardization in Future

Proposed Subject
NA

Other than Product Standards

Standards Published

Human Resource Development	
IS/ISO 10015 : 2019	Guidelines for Competence Management and People Development
Programme Management	
ISO 21503:2022	Project, Programme and Portfolio Management — Guidance On Programme Management
Quality Management System	
for Standards Pertaining to Management Systems for the scheme please refer Section 3	
Rainwater Harvesting	
for Standards other than Product Standards pertaining to Civil Works, please refer Section 2— Part A2	



Recharge	
IS 15792 : 2008	Artificial Recharge To Ground Water — Guidelines
IS 15797 : 2008	Roof Top Rainwater Harvesting — Guidelines
Water Quality	
IS 13969 (Part 11) : 2018/ ISO 5667—11 : 2009	Water Quality — Sampling: Part 11 Guidance On Sampling of Groundwater (<i>First Revision</i>)
IS 17614 (Part 22): 2021	Water Quality Sampling Part 22 Guidance On The Design and Installation of Groundwater Monitoring Points

Standards under Development

Broad Category
NA

Areas Identified for Standardization in Future

Proposed Subject
Integrated Management Information System (MIS) for Groundwater
Acquifer Storage and Recovery Techniques
Guidelines for Aquifer Mapping
Groundwater Harvesting Using Unconventional Measures
Groundwater Flow Monitoring



Cities River Alliance-Urban Rivers Management

Ministry of Jal Shakti

About the Scheme/Mission

The River Cities Alliance is a dedicated platform launched by the Union Minister for Jal Shakti in India to promote sustainable management of urban rivers. The alliance aims to facilitate networking, capacity building, and technical support among 30 member cities from across the country. It encourages cities to rejuvenate their rivers through developmental and facilitatory approaches, emphasizing the need for river-centric thinking in urban planning. The alliance will assist cities in developing urban river management plans and implementing strategies for sustainable water resources and reduced environmental impacts.

Product Standards

Standards Published

Pipes	
IS 3589 : 2001	Steel Pipes for Water and Sewage (168.3 To 2540 Mm Outside Diameter) — Specification (<i>Third Revision</i>)

Standards under Development

Broad Category
NA

Areas Identified for Standardization in Future

Proposed Subject
NA

Other than Product Standards

Standards Published

Human Resource Development	
IS/ISO 10015 : 2019	Guidelines for Competence Management and People Development
Drainage	
IS 1172 : 1993	Code of Basic Requirements for Water Supply, Drainage and Sanitation (<i>Fourth Revision</i>)
SP 35 : 1987	Handbook On Water Supply and Drainage (With Special Emphasis On Plumbing)
Project Management	
ISO 21503:2022	Project, Programme and Portfolio Management — Guidance On Programme Management
Quality Management System	
for Standards Pertaining to Management Systems for the scheme please refer Section 3	



Septic tank	
IS 2470 (Part 2) : 1985	Code of Practice for Installation of Septic Tanks: Part 2 Secondary Treatment and Disposal of Septic Tank Effluent (<i>Second Revision</i>)
Waste Water treatment	
IS 8032 : 1976	Guide for Treatment of Distillery Effluents
IS 8073 : 1976	Guide for Treatment and Disposal of Steel Plant Effluents
IS 8682 : 1977	Guide for Treatment and Disposal of Effluents of Dairy Industry
IS 9508 : 1980	Guide for Treatment and Disposal of Effluents of Cotton and Synthetic Textile Industry
IS 9509 : 1980	Guide for Treatment and Disposal of Effluents of Viscose Rayon Industry
IS 9841 : 2022	Guide for Treatment and Disposal of Effluents of Fertilizer Industry
IS 10044 : 1981	Guide for Treatment and Disposal of Effluents of Petroleum Refining Industry
Water Quality	
IS 6582 (Part 1) : 1971	Bio — Assay Methods for Evaluating Acute Toxicity of Industrial Effluents and Waste Waters
IS 6582 (Part 2) : 2001	Bio — Assay Method for Evaluating Acute Toxicity of Industrial Effluents and Wastewaters: Part 2 Using Toxicity Factor To Zebra Fish (<i>BrachydanioRerio</i>) (<i>First Revision</i>)
IS 17614 (Part 6)	Water Quality — Sampling Part 6 Guidance On Sampling of Rivers and Streams
Water safety signs and symbols	
IS 16882 (Part 1) : 2018	Water Safety Signs and Beach Safety Flags: Part 1 Specifications for Water Safety Signs Used in Workplaces and Public Areas
IS 16882 (Part 2) : 2018	Water Safety Signs and Beach Safety Flags: Part 2 Specifications for Beach Safety Flags — Colour, Shape, Meaning and Performance
IS 16882 (Part 3) : 2018	Water Safety Signs and Beach Safety Flags: Part 3 Guidance for Use

Standards under Development

Broad Category
NA

Areas Identified for Standardization in Future

Proposed Subject
Performance Indicator for Enviro— Economic Social Governance and Impact Assessments for Environmental Social Governance (ESG'S)



Jal Jeevan Mission

Ministry of Jal Shakti

About the Scheme/Mission

Jal Jeevan Mission is a government initiative in rural India aimed at providing safe drinking water through individual household tap connections by 2024. The mission focuses on community—based approaches to water, incorporating measures such as water source sustainability, greywater management, and water conservation. It aims to create awareness, education, and communication regarding the significance of water, while prioritizing the provision of tap connections in quality-affected areas, drought-prone regions, and community buildings. The mission also emphasizes the development of infrastructure, human resources, and financial sustainability to ensure long-term access to clean drinking water for all rural households.

Product Standards

Standards Published

Drinking Water	
IS 10500 : 2012	Drinking Water — Specification (<i>Second Revision</i>)
Fittings	
IS 1239:part1:2004	Steel Tubes, Tubular and Other Wrought Steel Fittings
IS 1879:2010	Malleable Cast Iron Pipe Fittings
IS 10124 (Parts 1 to 13): 2009	Fabricated PVC—U Fittings for Potable Water Supplies — Specification (<i>Second Revision</i>)
IS 8008:2022	Injection Moulded/Machined Polyethylene Fittings for Water Supply — Specification (<i>Second Revision</i>)
IS 7834 (Parts 1 to 8):1987	Specification for Injection Moulded Pvc Socket Fittings With Solvent Cement Joints for Water Supplies (<i>First Revision</i>)
for more Product Standards Pertaining to Civil Works, please refer Section 2 — Part A1	
Pipes	
IS 3589:2001	Steel Pipes for Water and Sewage (168.3 To 2540 Mm Outside Diameter)
IS 8329 : 2000	Centrifugally Cast (Spun) Ductile Iron Pressure Pipes for Water, Gas and Sewage
IS 9556:20:00	Ductile Iron Fittings for Pressure Pipes for Water, Gas and Sewage
1568:56:00	Centrifugally Cast (Spun) Iron Pressure Pipes for Water, Gas and Sewage
IS 17875: 2022	Stainless Steel Seamless Pipes and Tubes for General Service
IS 17876: 2022	Stainless Steel Welded Pipes and Tubes for General Service
IS 1239 (Part 2): 2011	Steel Tubes, Tubulars and Other Steel Fittings — Specification: Part 2 Steel Pipe Fittings (<i>Fifth Revision</i>)
IS 5531 : 2014	Cast Iron Specials for Asbestos Cement Pressure Pipes for Water and Sewage — Specification (<i>Third Revision</i>)
IS 15155: 2020	Barwire Wrapped Steel Cylinder Pipes With Mortar Lining and Coating Including Specials Specification



IS 1592: 2003	Asbestos Cement Pressure Pipes and Joints — Specification (<i>Fourth Revision</i>)
IS 16647: 2017	Oriented Unplasticized Polyvinyl Chloride (Pvc — O) Pipes for Water Supply — Specification
IS 12709:1994	Glass — Fibre Reinforced Plastic (Grp) Pipes Joints and Fittings for Use for Potable Water Supply — Specification (<i>First Revision</i>)
IS 12818:2010	Installation of Glassfibre Reinforced Plastic (Grp) Piping System — Code of Practice
IS 4427: 2016	Polyethylene Pipes for Water Supply — Specification (<i>Fifth Revision</i>)
IS 458: 2021	Precast Concrete Pipes(With and Without Reinforcement) — Specification
IS 16647:2017	Oriented Unplasticized Polyvinyl Chloride (Pvc—O) Pipes for Water Supply — Specification
IS 784: 2019	Prestressed Concrete Pipes (Including Specials) — Specification (<i>Third Revision</i>)
IS 9627: 1980	Specification for Asbestos Cement Pressure Pipes (Light Duty)
for more Product Standards Pertaining to Civil Works, please refer Section 2 — Part A1	
Pipes and Fittings	
IS 12709:1994	Glass—Fibre Reinforced Plastics (Grp) Pipes, Joints and Fittings for Use for Potable Water Supply — Specification (<i>First Revision</i>)
Pumps	
IS 6595 (Part 1) : 2018	Horizontal Centrifugal Pumps for Clear Cold Water — Specification Part 1 Agricultural and Rural Water Supply Purposes (<i>Fourth Revision</i>)
IS 8472 : 2019	Centrifugal Regenerative Pumps for Clear, Cold Water — Specification (<i>Second Revision</i>)
IS 9079 : 2018	Monoset Pumps for Clear, Cold Water for Agricultural and Water Supply Purposes — Specification (<i>Third Revision</i>)
IS 14220 : 2018	Openwell Submersible Pumpsets — Specification (<i>First Revision</i>)
Pumpsets	
IS 8034 : 2018	Submersible Pumpsets — Specification (<i>Third Revision</i>)
Sanitary fittings	
for Product Standards Pertaining to Civil Works, Please refer Section 2 — Part A1	
Sanitary ware	
for Product Standards Pertaining to Civil Works, Please refer Section 2 — Part A1	
Taps	
IS 8931:2021	Copper Alloy Single Taps, Combination Tap Assemblies, Stop Valves and Single Lever Mixers for Water Services — Specification (<i>Second Revision</i>)
Tubes	
IS 4736: 1986	Specification for Hot — Dip Zinc Coatings On Mild Steel Tubes (<i>Fist Revision</i>)



Valves	
IS 12234:2021	Plastic Equilibrium Float Valves for Cold Water Services — Specification (<i>First Revision</i>)
IS 14845:2000	Resilient Seated Cast Iron Air Relief Valves for Water Works Purposes — Specification
IS 9338:2013	Cast Iron/S.G. Iron/Cast Steel Screw—Down Stop Valves for Water Works Purposes — Specification (<i>Second Revision</i>)
IS 779:1994	Water Meters (Domestic Type) — Specification (<i>Sixth Revision</i>)
IS 9763:2000	Plastics Bib Taps, Pillar Taps, Angle Valves and Stop Valves for Hot and Cold Water Services — Specification (<i>Second Revision</i>)
IS 5312 (Part 1):2004	Swing Check Type Reflux (Non—Return) Valves for Water Works Purposes — Specification: Part 1 Single Door Pattern (<i>Second Revision</i>)
IS 5312 (Part 2):2013	Swing Check Type Reflux (Non—Return) Valves for Water Works Purpose — Specification: Part 2 Multi—Door Pattern
for more Product Standards Pertaining to Civil Works, Please refer Section 2 — Part A1	
Water meters	
IS 2373:1981	Specification for Water Meters (Bulk Type) (<i>Third Revision</i>)
IS 778:1984	Specification for Copper Alloy Gate, Globe and Check Valves for Waterworks Purposes (<i>Fourth Revision</i>)
Water Storage Tanks	
IS 12701:1996	Rotational Moulded Polyethylene Water Storage Tanks — Specification (<i>First Revision</i>)
IS 14399 (Parts 1 & 2): 1996	Hot Press Moulded Thermosetting Glass Fibre Reinforced Polyester Resin (GRP) Sectional Water Storage Tanks: Part 1 Specification for Panels Part 2 Guidelines for Assembly, Installation and Testing

Standards under Development

Filtration
Draft Indian Standard Sand and Gravel for Use As Filtration Medium — Specification
Valves
Draft Indian Standard Underdrainage System of Rapid Sand Gravity Filtration Equipment — Requirements [First Revision of Is 8419 (Part 2)]
Pipes
Draft Indian Standard Unplasticized Polyvinyl Chloride (PVC—U) Pipes (Schedule 40, 80 and 120) for Distribution of Pressurized Liquids — Specification
Drinking Water
Portable Field Testing Kit for Onsite Testing of Drinking Water Specification



Areas Identified for Standardization in Future

Proposed Subject
NA

Other than Product Standards

Standards Published

Drinking Water	
IS 17482 : 2020	Drinking Water Supply Management System — Requirements for Piped Drinking Water Supply Service
Human Resource Development	
IS/ISO 10015 : 2019	Guidelines for Competence Management and People Development
Hydrology	
IS 6518 : 2017	Guidelines for Control of Sediment in Reservoirs (<i>Second Revision</i>)
Hydrometry	
IS 13665 : 2017 ISO 6421 : 2012	Hydrometry — Methods for Assessment of Reservoir Sedimentation (<i>First Revision</i>)
Pipes	
IS 13916: 1994	Code of Practice for Installation of Glass Fibre Reinforced Plastic (GRP) Piping System
for more Standards other than Product Standards pertaining to Civil Works, please refer Section 2— Part A2	
Pipes and Fittings	
for Standards other than Product Standards pertaining to Civil Works, please refer Section 2— Part A2	
Quality Management System	
for Standards Pertaining to Management Systems for the scheme please refer Section 3	
Valves	
IS 2685:1971	Code of Practice for Selection, Installation and Maintenance of Sluice Valves (<i>First Revision</i>)
Water supply and Drainage	
SP 35 (S&T):1987	Handbook On Water Supply and Drainage With Special Emphasis On Plumbing
IS 6295:1986	Code of Practice for Water Supply and Drainage in High Altitudes and/Or Sub—Zero Temperature Regions (<i>First Revision</i>)
for more Standards other than Product Standards pertaining to Civil Works, please refer Section 2— Part A2	

Standards under Development

Broad Category
NA

Areas Identified for Standardization in Future

Proposed Subject
NA



National Hydrology Project

Ministry of Jal Shakti

About the Scheme/Mission

The National Hydrology Project (NHP) in India aims to improve the extent, quality, and accessibility of water resources information while strengthening the capacity of water resources management institutions. The project focuses on modernizing monitoring systems, developing analytical tools, transforming knowledge access, and modernizing institutions. By integrating water resources information and promoting evidence-based decision-making, the NHP aims to achieve integrated water resources management, improve water allocation and use efficiency, and effectively manage drought and flood risks for the benefit of various stakeholders and communities.

Product Standards

Standards Published

Pipes	
IS 8329 : 2000	Centrifugally Cast (Spun) Ductile Iron Pressure Pipes for Water, Gas and Sewage

Standards under Development

Broad Category
NA

Areas Identified for Standardization in Future

Proposed Subject
NA

Other than Product Standards

Standards Published

Ground Water	
IS 15896 : 2011	Manual Methods for Measurement of Ground Water Level in A Well
IS 15897 : 2011	Surface Geophysical Surveys for Hydro Geological Studies
Hydrometry	
IS 15755 : 2007	Hydrometry — Geophysical Logging of Boreholes for Hydrogeological Purposes — Considerations and Guidelines for Making Measurements
IS 1192 : 2013	Hydrometry — Measurement of Liquid Flow in Open Channels Using Current — Meters Or Floats (<i>Second Revision</i>)
IS 1194 : 1960	forms for Recording Measurement of Flow of Water in Open Channels
IS 2912 : 2022	Liquid Flow Measurement in Open Channels—Slope—Area Method
IS 2912 : 1999	Liquid Flow Measurement in Open Channels — Slope — Area Method (<i>First Revision</i>)
IS 2951 (Part 1) : 1965	Recommendation for Estimation of Flow of Liquids in Closed Conduits: Part I Head Loss in Straight Pipes Due To Frictional Resistance

IS 2951 (Part 2) : 1965	Recommendation for Estimation of Flow of Liquids in Closed Conduits: Part 2 Head Loss in Valves and Fittings
IS 3910 : 2013	Hydrometry — Rotating — Element Current — Meters (<i>Second Revision</i>)
IS 3911 : 1994	Surface Floats — Functional Requirements (<i>First Revision</i>)
IS 3912 : 2013	Hydrometry — Direct Depth Sounding and Suspension Equipment (<i>Second Revision</i>)
IS 3913 : 2014	Hydrometry — Functional Requirements and Characteristics of Suspended — Sediment Samplers (<i>Second Revision</i>)
IS 3917 : 2003	Scoop Type Bed Material Samplers — Specification (<i>First Revision</i>)
IS 3918 : 1966	Code of Practice for Use of Current Meter (Cup Type) for Water Flow Measurement
IS 4073 : 1967	Specification for Fish Weights
IS 4080 : 1994	Vertical Staff Gauges — Functional Requirements (<i>First Revision</i>)
IS 4477 (Part 2) : 1975	Method of Measurement of Fluid Flow By Means of Venturi Meters: Part II Compressible Fluids
IS 4858 : 1968	Specification for Velocity Rods
IS 4890 : 1968	Methods for Measurement of Suspended Sediment in Open Channels
IS 4986 : 2002	Installation of Raingauge (Non — Recording Type) and Measurement of Rain — Code of Practice (<i>Second Revision</i>)
IS 4987 : 1994	Recommendations for Establishing Network of Raingauge Stations (<i>First Revision</i>)
IS 5542 : 2003	Guide for Storm Analysis (<i>First Revision</i>)
IS 6062 : 1971	Method of Measurement of Flow of Water in Open Channels Using Standing Wave Flume — Fall
IS 6063 : 1971	Method of Measurement of Flow of Water in Open Channels Using Standing Wave Flume
IS 6064 : 1971	Specification for Sounding and Suspension Equipment
IS 6330 : 2012	Liquid Flow Measurement in Open Channels By Weirs and Flumes — End — Depth Method for Estimation of Flow in Rectangular Channels With A Free Overfall (<i>First Revision</i>)
IS 6339 : 2013	Hydrometry — Sediment in Streams and Canals — Determination of Concentration, Particle Size Distribution and Relative Density (<i>First Revision</i>)
IS 8389 : 2003	Installation and Use of Raingauges, Recording — Code of Practice (<i>Second Revision</i>)
IS 9108 : 2020	Hydrometry — Open Channel Flow Measurement Using Thin—Plate Weirs (<i>Second Revision</i>)
IS 9115 : 2002	Method for Estimation of Incompressible Fluid Flow in Closed Conduits By Bend Meters (<i>First Revision</i>)

IS 9116 : 2002	Water Stage Recorder (Float Type) — Specification (<i>First Revision</i>)
IS 9118 : 1979	Method for Measurement of Pressure By Means of Manometers
IS 9119 : 1979	Method of Flow Estimation By Jet Characteristics (Approximate Method)
IS 12752 : 2013	Hydrometric Determinations — Flow Measurements in Open Channels Using Structures — Guidelines for Selection of Structure (<i>First Revision</i>)
IS 13083 : 2017	Liquid Flow Measurement in Open Channels Flat — V Weirs
IS 13084 : 1991	Liquid Flow Measurement in Open Channels — Round — Nose Horizontal Broad — Crested Weirs
IS 13371 : 2014	Hydrometry — Calibration of Current — Meters in Straight Open Tanks (<i>First Revision</i>)
IS 14359 : 2014	Hydrometry — Echo Sounders for Water Depth Measurements (<i>First Revision</i>)
IS 14371 : 2016	Measurement of Liquid Flow in Open Channels — Parshall and Saniiri Flumes (<i>First Revision</i>)
IS 14573 : 2014	Hydrometry — Velocity — Area Methods Using Current — Meters — Collection and Processing of Data for Determination of Uncertainties in Flow Measurement (<i>First Revision</i>)
IS 14615 (Part 1) : 2018	Measurement of Fluid Flow By Means of Pressure Differential Devices Inserted in Circular Cross-section Conduits Running Full: Part 1 : General Principles and Requirements (<i>First Revision</i>)
IS 14615 (Part 2) : 2018	Measurement of Fluid Flow By Means of Pressure Differential Devices Inserted in Circular Cross —: Sec Conduits Running Full: Part 2 Orifice Plates
IS 14615 (Part 3) : 2018	Measurement of Fluid Flow By Means of Pressure Differential Devices Inserted in Circular Cross-section Conduits Running Full: Part 3 Nozzles and Venturi Nozzles
IS 14615 (Part 4) : 2018	Measurement of Fluid Flow By Means of Pressure Differential Devices Inserted in Circular Cross-section Conduits Running Full: Part 4 Venturi Tubes
IS 14615 (Part 5) : 2019	Measurement of Fluid Flow By Means of Pressure Differential Devices Inserted in Circular Cross—Section Conduits Running Full Part 5 Cone Meters
IS 14673 : 2022	Hydrometry — Open Channel Flow Measurement Using Triangular Profile Weirs
IS 14869 : 2016	Flow Measurement Structures — Rectangular, Trapezoidal and U — Shaped Flumes (<i>First Revision</i>)
IS 14973 : 2019	Measurement of Fluid Flow in Closed Conduits — Velocity Area Method Using Pitot Static Tube (<i>First Revision</i>)
IS 14974 : 2018	Hydrometry — Open Channel Flow Measurement Using Rectangular Broad Crested Weirs (<i>First Revision</i>)
IS 14975 : 2001	Measurement of Liquid Flow in Open Channels — Streamlined Triangular Profile Weirs
IS 15117 : 2018	Hydrometry — Cableway Systems for Stream Gauging (<i>First Revision</i>)
IS 15118 : 2014	Hydrometry — Water Level Measuring Devices (<i>First Revision</i>)

IS 15119 (Part 2) : 2014	Hydrometry — Measurement of Liquid Flow in Open Channels: Part 2 Determination of The Stage — Discharge Relationship (<i>First Revision</i>)
IS 15122 : 2014	Measurement of Liquid Flow in Open Channels Under Tidal Conditions
IS 15123 : 2002	Hydrometric Determinations — Flow Measurement in Open Channels Using Structures — Trapezoidal Broad — Crested Weirs
IS 15124 : 2002	Liquid Flow Measurement in Open Channels — Sampling and Analysis of Gravel — Bed Material
IS 15352 : 2018	Hydrometry — Position Fixing Equipment for Hydrometric Boats (<i>First Revision</i>)
IS 15353 : 2003	Liquid Flow Measurement in Open Channels By Weirs and Flumes — V- Shaped Broad — Crested Weirs
IS 15358 : 2003	Liquid Flow Measurement in Open Channels — Flow Measurements Under Ice Conditions
IS 15359 : 2003	Hydrometric Determinations — Measurement of Suspended Sediment Transport in Tidal Channels
IS 15360 : 2003	Measurement of Liquid Flow in Open Channels — Bed Material Sampling
IS 15362 : 2003	Hydrometric Determinations — Flow Measurements in Open Channels Using Structures — Compound Gauging Structures
IS 15454 : 2004	Liquid Flow Measurement in Open Channels — Velocity — Area Method Using A Restricted Number of Verticals
IS 15527 : 2020	Hydrometry — Measurement in Meandering River and in Streams With Unstable Boundaries (<i>First Revision</i>)
IS 15646 : 2017	Hydrometry — Measurement of Free Surface Flow in Closed Conduits (<i>First Revision</i>)
IS 15772 : 2014	Hydrometry — Field Measurement of Discharge in Large Rivers and Rivers in Flood (<i>First Revision</i>)
IS 15822 : 2008	Measurement of Liquid Flow in Open Channels — Equipment for The Measurement of Discharge Under Ice Conditions
IS 15823 : 2009	Hydrometry — Computing Stream Flow Using An Unsteady Flow Model
IS 15847 : 2020	Hydrometry — Stage—Fall—Discharge Relationship (<i>First Revision</i>)
IS 15873 : 2010	Hydrometric Determination — Unstable Channels and Ephemeral Streams
IS 15898 (Part 1) : 2012	Measurement of Liquid Flow in Open Channels — Tracer Dilution Methods for The Measurement of Steady Flow: Part 1 General
IS 15898 (Part 3) : 2011	Measurement of Liquid Flow in Open Channels — Tracer Dilution Methods for The Measurement of Steady Flow: Part 3 Chemical Tracers
IS 15898 (Part 4) : 2012	Measurement of Liquid Flow in Open Channels — Tracer Dilution Methods for The Measurement of Steady Flow: Part 4 Fluorescent Tracers
IS 16091 : 2013	Measurement of Liquid Flow in Open Channels — Method of Specifying Performance of Hydrometric Equipment



IS 16138 : 2013	Measurement of Liquid Velocity in Open Channels — Design, Selection and Use of Electromagnetic Current Meters
IS 16222 : 2018	Hydrometry — Methods of Measurement of Bedload Discharge (<i>First Revision</i>)
IS 16223 : 2014	Hydrometry — Guidelines for The Application of Acoustic Velocity Meters Using The Doppler and Echo Correlation Methods
IS 16274 : 2018	Hydrometry — Hydrometric Data Transmission Systems — Specification of System Requirements (<i>First Revision</i>)
IS 16364 : 2017	Hydrometric Uncertainty — Guidance (Hug)
IS 16571 : 2017	Measurement of Liquid Flow in Open Channels — Moving — Boat Method
IS 16696 : 2018	Hydrometry — Suspended Sediment in Streams and Canals — Determination of Concentration By Surrogate Techniques
IS 16697 : 2018	Hydrometric Determinations — Flow Measurements in Open Channels Using Structures — Use of Vertical Underflow Gates
IS 16698 : 2019	Hydrometry — Selection, Establishment and Operation of A Gauging Station
IS 16725 (Part 1) : 2014	Hydrometry — Acoustic Doppler Profiler — Method and Application for Measurement of Flow in Open Channels
IS 16804 : 2018	Hydrometry — Fish Passes At Flow Measurement Structures
IS 16849 : 2018	Estimation of Sediment Deposition in Reservoir Deposition Using One Dimensional Simulation Models
IS 17271 : 2020	Hydrometry — Measurement of Discharge By Ultrasonic Transit Time (Time of Flight) Method
IS 17272 : 2021	Hydrometry — Low Cost Baffle Solution To Aid Fish Passage At Triangular Profile Weirs That Conform To ISO 4360
IS 17273 : 2021	Measurement of Fluid Flow in Closed Conduits — Vocabulary and Symbols
IS 17287 : 2021	Measurement of Fluid Flow in Closed Conduits — Weighing Method
IS 17289 : 2021	Measurement of Liquid Flow in Closed Conduits — Method By Collection of The Liquid in A Volumetric Tank
IS 17290 (Part 1) : 2021	Measurement of Liquid Flow in Closed Conduits By Weighing Method — Procedures for Checking Installations Part 1 Static Weighing Systems
IS 17484 : 2020	Hydrometry — Liquid Flow Measurement Using End Depth Method in Channels With A Free Overfall
IS 17485 : 2020	Measurement of Water Flow in Closed Conduits — Tracer Method Part 1 General
IS 17485 (Part 2) : 2021	Measurement of Water Flow in Closed Conduits— Tracer Method Part 2 : Constant Rate Injection Method Using Non—Radioactive Tracers Adoption of ISO 2975—2:1975
IS 17485 (Part 3) : 2021	Measurement of Water Flow in Closed Conduits— Tracer Method Part 3 : Constant Rate Injection Method Using Radioactive Tracers Adoption of ISO 2971—3:1976



IS 17485 (Part 6) : 2021	Measurement of Water Flow in Closed Conduits— Tracer Method Part 6 : Transit Time Method Using Non—Radioactive Tracers Adoption of ISO 2971—6:1977
IS 17485 (Part 7) : 2021	Measurement of Water Flow in Closed Conduits— Tracer Method Part 7 : Transit Time Method Using Radioactive Tracers Adoption of ISO 2971-7:1977
Monitoring system	
IS 18058: 2023	Guidelines for Supervisory Control and Data Acquisition (SCADA) System Displays

Standards under Development

Broad Category
NA

Areas Identified for Standardization in Future

Proposed Subject
Flood Map of India
River Morphology and Flood Plain Study
Integrated Watershed Management
Water Resource Monitoring Systems
Low Temperature Desalination Technology
Piped Irrigation Networks
Seepage Losses in Reservoirs



National Mission for Clean Ganga

Ministry of Jal Shakti

About the Scheme/Mission

The National Mission for Clean Ganga (NMCG) was established as the implementation arm of the National Ganga River Basin Authority (NGRBA) in India. Its primary objective is to prevent pollution, control environmental degradation, and ensure the continuous flow of water in the Ganga River. The NMCG operates through a two—tier management structure and collaborates with various stakeholders to achieve a holistic approach towards the cleaning and rejuvenation of the river. Its functions include implementing projects, coordinating with the government, and undertaking additional conservation efforts for the Ganga River.

Product Standards

Standards Published

Pipes	
IS 3589:2001	Steel Pipes for Water and Sewage (168.3 to 2540 mm Outside Diameter)
IS 8329 : 2000	Centrifugally Cast (Spun) Ductile Iron Pressure Pipes for Water, Gas and Sewage
9556:20:00	Ductile Iron Fittings for Pressure Pipes for Water, Gas and Sewage
1568:56:00	Centrifugally Cast (Spun) Iron Pressure Pipes for Water, Gas and Sewage

Standards under Development

Broad Category
NA

Areas Identified for Standardization in Future

Proposed Subject
NA

Other than Product Standards

Standards Published

Programme management	
ISO 21503:2022	Project, Programme and Portfolio Management — Guidance On Programme Management
Quality Management System	
for Standards Pertaining to Management Systems for the scheme please refer Section 3	



Standards under Development

Hydrometry
Parameters & Assessment Criteria for Downstream Flow to Maintain Ecological Balance

Areas Identified for Standardization in Future

Proposed Subject
Performance Indicator for Enviro—Economic Social Governance and impact assessments for Environmental Social Governance (ESG'S)



PM Krishi Sinchai Yojana-PMKSY (PM Agriculture Irrigation Scheme)

Ministry of Jal Shakti

About the Scheme/Mission

The Pradhan Mantri Krishi Sinchayee Yojana (PMKSY) is a comprehensive irrigation scheme in India aimed at achieving efficient water use and conservation in agriculture. It combines various existing schemes related to irrigation, watershed management, and on-farm water management. The scheme focuses on expanding cultivable areas under assured irrigation, promoting water-saving technologies, enhancing aquifer recharge, and encouraging private investment in precision irrigation systems. It adopts a decentralized state-level planning approach and is overseen by a National Steering Committee and National Executive Committee.

Product Standards

Standards Published

Drainage	
IS 3367:2023	Burnt Clay Tiles for Use in Lining Irrigation and Drainage Works — Specification
Filter	
IS 14606 : 2022	Irrigation Equipment — Media Filter
IS 14743 : 1999	Irrigation Equipment — Hydrocyclone Filters — Specification
Micro Irrigation System	
IS 13487 : 1992	Irrigation Equipment — Emitters — Specification
IS 13488 : 2008	Irrigation Equipment — Emitting Pipe Systems — Specification (<i>First Revision</i>)
IS 17425 : 2020	Irrigation Equipment — Quick Coupled Polyethylene Pipes and Fittings for Sprinkler Irrigation Systems — Specification
IS 17411 (Part 2) : 2020/ ISO 9912—2 : 2013	Agricultural Irrigation Equipment — Filters for Micro Irrigation Part 2 Strainer— Type Filters and Disc Filters
IS 16627 : 2017	Agro Textiles — High Density Polyethylene (HDPE) Laminated Woven Lay Flat Tube for Use in Mains and Submains of Drip Irrigation System — Specification
Pipes	
IS 12786 : 1989	Irrigation Equipment — Polyethylene Pipes for Irrigation Laterals — Specification
IS 14482 : 1997	Irrigation Equipment — Polyethylene Micro Tubes for Drip Irrigation — Specification
Pond Liners/Geomembrane	
IS 15351 : 2015	Agro Textiles — Laminated High Density Polyethylene (HDPE) Woven Geomembrane for Water Proof Lining — Specification (<i>Second Revision</i>)
Pumps	
IS 6595 (Part 1) : 2018	Horizontal Centrifugal Pumps for Clear, Cold Water — Specification: Part 1 Agricultural and Rural Water Supply Purposes (<i>Fourth Revision</i>)



IS 8034 : 2018	Submersible Pumpsets — Specification
IS 9079 : 2018	Monoset Pumps for Clear, Cold Water for Agricultural and Water Supply Purposes — Specification
IS 17018 (Part 1): 2022	Solar Photovoltaic Water Pumping Systems Part 1 Centrifugal Pumps Specification
Sprayers	
IS 14605 : 1998	Irrigation Equipment — Micro Sprayers — Specification
Strainer	
IS 12785 : 1994	Irrigation Equipment — Strainer — Type Filters — Specification (<i>First Revision</i>)
Tubes	
IS 17728: 2021	Agro Textiles — High Density Polyethylene (HDPE) Laminated Woven Lay Flat Tube and Fittings for Use in Rain Irrigation System — Specification
Water Storage Tank	
IS 17729: 2021	Agro—Textiles Flexible Water Storage Tank for Agriculture and Horticulture Purposes Specification
Waterproof Sheet	
IS 17216 : 2019	Polyethylene Mulch Films for Agriculture and Horticulture — Specification
IS 14611 : 2016	Multilayered Cross Laminated Sheets/Tarpaulins/Covers/Agricultural Films — Specification

Standards under Development

Broad Category
NA

Areas Identified for Standardization in Future

Proposed Subject
NA

Other than Product Standards

Standards Published

Canals	
IS 3872 : 2002	Lining of Canals With Burnt Clay Tiles — Code of Practice (<i>First Revision</i>)
IS 3873: 1983	Laying .Cement Concrete/Stone Slab Lining On Canals — Code of Practice
IS 4515 : 2002	Stone Pitched Lining for Canals — Code of Practice
IS 4558: 1995	Under — Drainage of Lined Canals — Code of Practice (<i>Second Revision</i>)



IS 4839 (Part 1): 1992	Maintenance of Canals Code of Practice: Part 1 Unlined Canals (<i>Second Revision</i>)
IS 4839 (Part 2): 1992	Maintenance of Canals — Code of Practice: Part 2 Lined Canals (<i>Second Revision</i>)
IS 4839 (Part 3): 1992	Code of Practice for Maintenance of Canals: Part 3 Canal Structures, Drains, Outlets, Jungle, Clearance, Plantation and Regulation F (<i>Second Revision</i>)
Drip Irrigation	
IS 14791 : 2000	Prevention and Treatment of Blockage Problem in Drip Irrigation System — Code of Practice
Farm Ponds	
IS 15828: 2009	Design and Construction of Plastic Lined Farm Ponds — Code of Practice
Irrigation	
IS 13062 : 1991	Irrigation Equipment and Systems — Evaluation of Field Irrigation Efficiencies — Guidelines
IS 10799 : 1999	Irrigation Equipment — Design Installation and Field Evaluation of Micro Irrigation Systems — Code of Practice (<i>First Revision</i>)
IS 10317: 1982	Guide for Evaluation of Soil Properties Relevant To Irrigation
Programme Management	
ISO 21503:2022	Project, Programme and Portfolio Management — Guidance On Programme Management
Pumps	
IS 14536: 2018	Selection, Installation, Operation and Maintenance of Submersible Pumpset — Code of Practice (<i>First Revision</i>)
IS 9694 (Part 1): 2023	Selection, Installation, Operation and Maintenance of Horizontal Centrifugal Pumps for Agriculture Application — Code of Practice Part 1 Selection (<i>Second Revision</i>)
IS 9694 (Part 3): 2023	Selection, Installation, Operation and Maintenance of Horizontal Centrifugal Pumps for Agriculture Application — Code of Practice Part 3 Operation
IS 9694 (Part 4): 2023	Selection, Installation, Operation and Maintenance of Horizontal Centrifugal Pumps for Agriculture Application — Code of Practice Part 4 Maintenance (<i>First Revision</i>)
Quality Management System	
for Standards Pertaining to Management Systems for the scheme please refer Section 3	
Sprinkler	
IS 12232 (Part 1) : 1996/ ISO 7749—1: 1995	Irrigation Equipment — Rotating Sprinkler : Part 1 Design and Operational Requirements (<i>First Revision</i>)
IS 12232 (Part 2) : 1995	Irrigation Equipment — Rotating Sprinkler : Part 2 Test Method for Uniformity of Distribution (<i>First Revision</i>)



IS 14792 : 2000	Irrigation Equipment — Design Installation and Operation of Sprinkler Irrigation Systems — Code of Practice
Water quality	
IS 11624 : 2019	Quality of Irrigation Water — Guidelines (<i>First Revision</i>)
Water Reuse System	
IS 17664 : 2021	Treated Wastewater Reuse for Irrigation Guidelines for The Adaptation of Irrigation Systems and Practices To Treated Wastewater
IS 17675 (Part 1) : 2021	Guidelines for Treated Wastewater Use for Irrigation Projects Part 1 The Basis of A Reuse Project for Irrigation
IS 17675 (Part 2) : 2021	Guidelines for Treated Wastewater Use for Irrigation Projects Part 2 Development of The Project
IS 17675 (Part 3) : 2021	Guidelines for Treated Wastewater Use for Irrigation Projects Part 3 Components of A Reuse Project for Irrigation
IS 17675 (Part 4) : 2021	Guidelines for Treated Wastewater Use for Irrigation Projects Part 4 Monitoring

Standards under Development

Water Harvesting
Guidelines for Surface Runoff Harvesting Using Small Structures

Areas Identified for Standardization in Future

Proposed Subject
NA



Notes





Notes



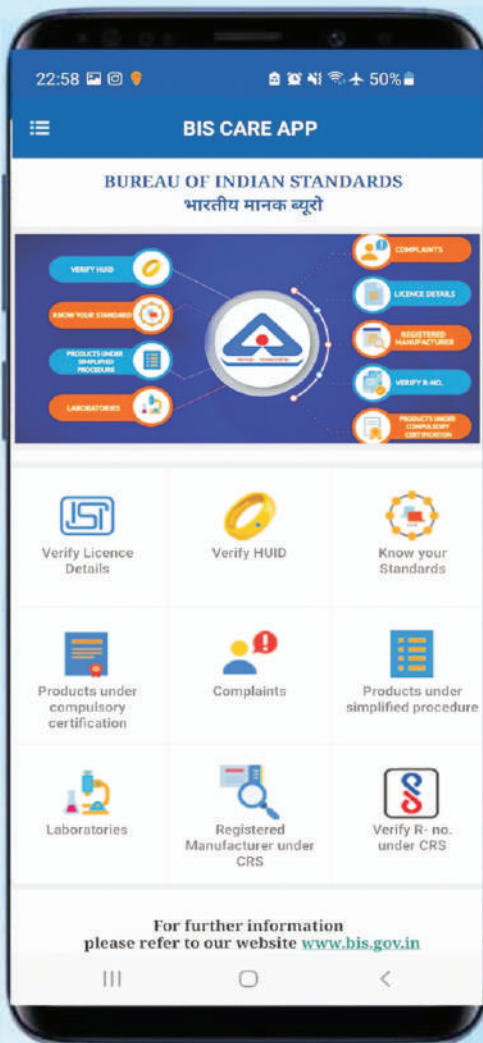


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