### **BUREAU OF INDIAN STANDARDS**

### **Program of Work**

### **CED 50: Plastic Piping System**

Scope:

STANDARDIZATION OF PIPES, FITTINGS AND AUXILIARIES INTENDED FOR THE TRANSPORT OF FLUIDS AND FOR CABLE DUCTING MADE FROM ALL TYPES OF PLASTIC MATERIALS INCLUDING REINFORCED PLASTICS METAL FITTINGS AND RUBBER GASKETS USED WITH PLASTIC PIPES. THE SCOPE FURTHER COVERS STANDARDIZATION FOR DIMENSIONS AND THEIR TOLERANCES, REQUIREMENTS AND TEST METHODS FOR CHEMICAL, MECHANICAL AND PHYSICAL PROPERTIES AS RELEVANT TO PARTICULAR APPLICATION AND CODES OF PRACTICES FOR LAYING AND INSTALLATION

Liaison:

ISO TC-138 (O): Plastics pipes, fittings and valves for the transport of fluids ISO TC-138 SC-1 (O): Plastics pipes and fittings for soil, waste and drainage (including land drainage) ISO TC-138 SC-2 (O): Plastics pipes and fittings for water supplies ISO TC-138 SC-3 (O): Plastics pipes and fittings for industrial applications ISO TC-138 SC-4 (O): Plastics pipes and fittings for the supply of gaseous fuels ISO TC-138 SC-5 (O): General properties of pipes, fittings and valves of plastic materials and their accessories -- Test methods and basic specifications ISO TC-138 SC-6 (O): Reinforced plastics pipes and fittings for all applications ISO TC-138 SC-7 (O): Valves and auxiliary equipment of plastics materials

### **Published Standards**

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 10124 (Part 1): Fabricated PVC-U Fittings for August, 2024		2	Not Equivalent	
	2009	Potable Water Supplies -			
	Reviewed In: 2024	Specification: Part 1 General			
	ISO 1452-1:2009	Requirements (Second Revision)			
	ISO 1452-4:2009				
2	IS 10124 (Part 2):	Fabricated PVC-U Fittings for	April, 2024	-	Not Equivalent
	2009	Potable Water Supplies -			
	Reviewed In: 2024	Specification: Part 2 Specific			
	ISO 1452-1:2009	Requirements for Sockets (Second			
	ISO 1452-4:2009	Revision)			
3	IS 10124 (Part 3):	Fabricated PVC-U Fittings for	April, 2024	-	
	2009	Potable Water Supplies -			
	Reviewed In: 2024	Specification: Part 3 Specific			
		Requirements for Straight			
		Reducers (Second Revision)			
4	IS 10124 (Part 4):	Fabricated PVC-U Fittings for	April, 2024	-	Not Equivalent
	2009	Potable Water Supplies -			
	Reviewed In: 2024	Specification: Part 4 Specific			
	ISO 1452-1:2009	Requirements for Caps (Second			
	ISO 1452-4:2009	Revision)			
5	IS 10124 (Part 5):	Fabricated PVC-U Fittings for	April, 2024	-	Not Equivalent
	2009	Potable Water Supplies -			

	•				1
	Reviewed In: 2024	1 1			
	ISO 1452-1:2009	Requirements for Equal Tees			
	ISO 1452-4:2009	(Second Revision)			
6	IS 10124 (Part 6):			-	Not Equivalent
	2009	Potable Water Supplies -			
	Reviewed In: 2024	Specification: Part 6 Specific			
	ISO 1452-1:2009	Requirements for Flanged Tail			
	ISO 1452-4:2009	Pieces with Metallic Flanges			
		(Second Revision)			
7	IS 10124 (Part 7):	Fabricated PVC-U Fittings for	April, 2024	-	Not Equivalent
	2009	Potable Water Supplies -	•		
	Reviewed In: 2024	Specification: Part 7 Specific			
	ISO 1452-1:2009	Requirements for Threaded			
	ISO 1452-4:2009	Adaptors (Second Revision)			
8	IS 10124 (Part 8):	Fabricated PVC-U Fittings for	April, 2024	-	Not Equivalent
	2009	Potable Water Supplies -	Γ ,		1
	Reviewed In: 2024	Specification: Part 8 Specific			
	ISO 1452-1:2009	Requirements for 90 Degree Bends			
	ISO 1452-4:2009	(Second Revision)			
9	IS 10124 (Part 9):	Fabricated PVC-U Fittings for	April, 2024	_	Not Equivalent
	2009	Potable Water Supplies -	p.i., 202 i		1.or Equivalent
	Reviewed In: 2024	Specification: Part 9 Specific			
	ISO 1452-1:2009	Requirements for 60 Degree Bends			
	ISO 1452-4:2009	(Second Revision)			
10	IS 10124 (Part 10) :	ì	August, 2024		Not Equivalent
10	2009	Potable Water Supplies -	August, 2024	-	Not Equivalent
	Reviewed In: 2024	Specification: Part 10 Specific			
	ISO 1452-1:2009	Requirements for 45 Degree Bends			
	ISO 1452-1:2009 ISO 1452-4:2009	-			
11		(Second Revision)	A		Net Fastantant
11	IS 10124 (Part 11):	_	August, 2024	-	Not Equivalent
	2009	Potable Water Supplies -			
	Reviewed In : 2024	Specification: Part 11 Specific			
	ISO 1452-1:2009	Requirements for 30 Degree Bends			
10	ISO 1452-4:2009	(Second Revision)	4 '1 2024		N . E . 1 .
12	IS 10124 (Part 12):	e	April, 2024	-	Not Equivalent
	2009	Potable Water Supplies -			
	Reviewed In: 2024	Specification: Part 12 Specific			
	ISO 1452-1:2009	Requirements for 22½ Degree			
	ISO 1452-4:2009	Bends (Second Revision)			
13	IS 10124 (Part 13):	_	April, 2024	-	
	2009	Potable Water Supplies -			
	Reviewed In: 2024	Specification Part 13 Specific			
		Requirements for 11½0Bends			
		PART 12 SPECIFIC			
		REQUIREMENTS FOR 22 ½0			
		BENDS			
14	IS 12231 : 1987	Specification for Unplasticized	August, 2024	1	
	Reviewed In: 2024	PVC Pipes for Use in Suction and			
		Delivery Lines of Agricultural			
		Pump Sets			
15	IS 12235 (Part 119)	Thermoplastics Pipes and Fittings -	April, 2024	-	
	2004	Methods of Test (First Revision)			
	Reviewed In: 2024				
16	IS 12709 : 1994	Glass-Fibre Reinforced Plastics	April, 2019	5	Not Equivalent
	Reviewed In: 2019	(GRP) Pipes, Joints and Fittings			
	ISO 10649:2017	for Use for Potable Water Supply -			
		Specification (First Revision)			
17	IS 12818 : 2010	Unplasticized Polyvinyl Chloride	March, 2021	3	Indigenous
	Reviewed In: 2021	(PVC-U) Screen and Casing Pipes			
1/			ivialcii, 2021	3	marger

l	I	for Bore/Tubewells - Specification		I	I
		(Second Revision)			
18	IS 13592 : 2013	Unplasticized Polyvinyl Chloride	August, 2024	2	
	Reviewed In: 2024	(PVC-U) Pipes for Soil and Waste			
		Discharge System Inside and			
		Outside Buildings Including			
		Ventilation and Rain Water System			
10	VC 10502 1002	- Specification (First Revision)	1 2022	1	
19	IS 13593 : 1992	UPVC Pipe Fittings for Use with	June, 2022	1	
	Reviewed In: 2022	the UPVC Pipes in the Suction and Delivery Lines of Agricultural			
		Pumps -Specification			
20	IS 13916 : 1994	Installation of Glassfibre	April, 2019	-	
	Reviewed In: 2019	Reinforced Plastic (GRP) Piping	<del>-</del> ,		
		System - Code Of Practice			
21	IS 14333 : 2022	Polyethylene Pipes for Sewerage		-	Not Equivalent
	ISO 8772	and Industrial Chemicals and			
		Effluent - Specification (First			
	YO 4 4 400 400 6	Revision)	Y 2022		
22	IS 14402 : 1996	Glass Fibre Reinforced Plastics	January, 2022	2	Not Equivalent
	Reviewed In: 2022 ISO 10467:2018	(GRP) Pipes, Joints and Fittings for Use for Sewerage, Industrial			
	150 10407:2018	Waste and Water (Other than			
		Potable) - Specification			
23	IS 14735 : 1999	Unplasticized Polyvinyl Chloride	April, 2024	5	
	Reviewed In: 2024	(UPVC) Injection Moulded	<b></b> ,		
		Fittings for Soil and Waste			
		Discharge System for Inside and			
		Outside Buildings Including			
		Ventilation and Rain Water System			
	YG 4 4505 2000	- Specification			Y 11
24	IS 14787 : 2000	Unplasticized PVC Pipes (Ducts)	March, 2020	1	Indigenous
	Reviewed In: 2020	and Fittings for Underground Telecommunications Cable			
		Installation - Specification			
25	IS 14885 : 2022	Polyethylene Pipes for the Supply		-	Not Equivalent
	ISO 4437-1 and 2	of Gaseous Fuels - Specification			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		(First Revision)			
26	IS 15265 : 2003	Flexible PVC Pipes or Polymer	August, 2024	2	Indigenous
	Reviewed In: 2024	Reinforced Thermoplastic Hoses			
		for Suction and Delivery Lines of			
	YG 4 7020 2002	Agricultural Pumps - Specification			
27	IS 15328 : 2003	Unplasticized Non-Pressure	August, 2024	7	
	Reviewed In: 2024	Polyvinyl Chloride (PVC-U) Pipes for Use in Underground Drainage			
		and Sewerage Systems -			
		Specification			
28	IS 15450 : 2022	Polyethylene-Aluminium-		-	Not Equivalent
	ISO 21003-1 and 2				1
		Pipes for Hot and Cold Water			
		Supplies -Specifications (First			
		Revision)			
29	IS 15778 : 2007	Chlorinated Polyvinyl Chloride	June, 2022	4	Not Equivalent
	Reviewed In: 2022	(CPVC) Pipes for Potable Hot and			
	ISO 15877-1:2009	Cold Water Distribution Supplies -			
30	ISO 15877-2:2009 IS 15801 : 2008	Specification Polypropylene - Random	June, 2022	1	Not Equivalent
50		Copolymer Pipes for Hot and Cold	Juile, 2022		TYOU Equivalent
	ISO 15874-1:2014	Water Supplies - Specification			
	1	11		I	1

Polyethylene Pipes for the Supply of Gaseous Fuels - Specification:   Part 1 Fittings for Socket Fusion   Using Heated Tools	ot Equivalent  ot Equivalent
2012 Polyethylene Pipes for the Supply of Gaseous Fuels - Specification: ISO 4447-1:2014 Part 1 Fittings for Socket Fusion Using Heated Tools  32 IS 15927 (Part 2): Polyethylene Fittings for Use with Polyethylene Pipes for the Supply of Gaseous Fuels - Specification: Part 2 Spigot Fittings for Butt Fusion for Socket Fusion Using Heated Tools and for Use with Electro Fusion Fittings  33 IS 15927 (Part 3): Polyethylene Fittings for Use with March, 2021 -	-
Reviewed In: 2022 of Gaseous Fuels - Specification: Part 1 Fittings for Socket Fusion Using Heated Tools  32 IS 15927 (Part 2): Polyethylene Fittings for Use with Polyethylene Pipes for the Supply of Gaseous Fuels - Specification: Part 2 Spigot Fittings for Butt ISO 4447-4:2014 Fusion for Socket Fusion Using Heated Tools and for Use with Electro Fusion Fittings  33 IS 15927 (Part 3): Polyethylene Fittings for Use with March, 2021 -	ot Equivalent
ISO 4447-1:2014 ISO 4447-4:2014  Part 1 Fittings for Socket Fusion Using Heated Tools  32 IS 15927 (Part 2): 2012 Reviewed In: 2022 ISO 4447-1:2014 ISO 4447-1:2014 ISO 4447-4:2014 ISO 4447-4:2014 ISO 4447-4:2014 ISO 4447-3 (Part 3): Polyethylene Fittings for Use with Electro Fusion Fittings  33 IS 15927 (Part 3): Polyethylene Fittings for Use with March, 2021  - No  - N	ot Equivalent
ISO 4447-4:2014 Using Heated Tools  32 IS 15927 (Part 2):     2012 Polyethylene Fittings for Use with     Polyethylene Pipes for the Supply     Reviewed In: 2022 of Gaseous Fuels - Specification:     ISO 4447-1:2014 Fusion for Socket Fusion Using     Heated Tools and for Use with     Electro Fusion Fittings  33 IS 15927 (Part 3): Polyethylene Fittings for Use with     March, 2021 -	ot Equivalent
2012 Reviewed In: 2022 ISO 4447-1:2014 ISO 4447-4:2014 ISO 4447-4:2014 ISO 45 Address Fuels - Specification: Part 2 Spigot Fittings for Butt Fusion for Socket Fusion Using Heated Tools and for Use with Electro Fusion Fittings  33 IS 15927 (Part 3): Polyethylene Fittings for Use with  March, 2021	ot Equivalent
Reviewed In: 2022 of Gaseous Fuels - Specification: ISO 4447-1:2014 Part 2 Spigot Fittings for Butt ISO 4447-4:2014 Fusion for Socket Fusion Using Heated Tools and for Use with Electro Fusion Fittings  33 IS 15927 (Part 3): Polyethylene Fittings for Use with	
ISO 4447-1:2014 ISO 4447-4:2014 Part 2 Spigot Fittings for Butt Fusion for Socket Fusion Using Heated Tools and for Use with Electro Fusion Fittings  33 IS 15927 (Part 3): Polyethylene Fittings for Use with	
ISO 4447-4:2014 Fusion for Socket Fusion Using Heated Tools and for Use with Electro Fusion Fittings  33 IS 15927 (Part 3): Polyethylene Fittings for Use with  March, 2021 -	
Heated Tools and for Use with Electro Fusion Fittings  33 IS 15927 (Part 3): Polyethylene Fittings for Use with March, 2021 -	
Electro Fusion Fittings  33 IS 15927 (Part 3): Polyethylene Fittings for Use with March, 2021 -	
33 IS 15927 (Part 3): Polyethylene Fittings for Use with March, 2021 -	
I Delevileden Deservice Consta	
2011 Polyethylene Pipes for the Supply Reviewed In: 2021 of Gaseous Fuels - Specification:	
Part 3 Electro Fusion Fittings	
34 IS 16098 (Part 1): Structured-Wall Plastics Piping June, 2022 2	
2013 Systems for Non-Pressure	
Reviewed In: 2022 Drainage and Sewerage -	
Specification: Part 1 Pipes and	
Fittings with Smooth External	
Surface, Type A	
35 IS 16098 (Part 2): Structured-Wall Plastics Piping June, 2022 2	
2013 Systems for Non-Pressure	
Reviewed In : 2022   Drainage and Sewerage â€"	
Specification: Part 2 Pipes and	
Fittings with Non-Smooth External	
Surface, Type B	
	ntical under dual
ISO 12162 : 2009 and Fittings for Pressure Reviewed In : 2024 Applications - Classification,	numbering
Reviewed In: 2024 Applications - Classification, ISO 12162: 2009 Designation and Design	
Coefficient	
	ntical under dual
ISO/TR 10358 : Combined Chemical-Resistance	numbering
1993 Classification Table	
Reviewed In: 2022	
ISO/TR 10358 :	
1993	
	ntical under dual
ISO 9080 : 2012 - Determination of the Long-Term	numbering
Reviewed In: 2021 Hydrostatic Strength of	
ISO 9080 : 2012 Thermoplastics Materials in Pipe	
Form by Extrapolation  39 IS 16647: 2017 Oriented Unplasticized Polyvinyl June, 2022 1 Mode	ified/Technically
Significant Street Compasticized Polyvinyl June, 2022 I Mod Chloride (PVC-O) Pipes for Water	Equivalent
Reviewed In: 2022 Supply - Specification	-quivalent
ISO 16422:2014	
	ot Equivalent
ISO 13623:2000(E) Piping Systems for Indoor Gas	
Installations with a Maximum	
Operating Pressure up to and	
Including 500 kPa (5 bar) -	
Specification	
	ot Equivalent
ISO 3514 C P V C ) Fittings For Potable Hot	
And Cold Water Distribution	
Supplies â€" Specification	

42	IS 4984 : 2016  Reviewed In : 2021 ISO 4427-1:2007	Polyethylene Pipes for Water Supply - Specification (Fifth Revision)	July, 2021	2	Not Equivalent
	ISO 4427-1:2007				
43	IS 4985 : 2021	Unplasticized PVC Pipes for	ticized PVC Pipes for		Not Equivalent
	ISO 1452-1 and ISO	_			
	1	Specification (Fourth Revision)			
44	SP 57 : 1993	Handbook on pipes and fittings for	March, 2016	-	Indigenous
	Reviewed In: 2016	drinking water supply			
45	IS 7634 (Part 1):	Code of Practice for Plastics Pipe	June, 2022	2	
	1975	Work for Potable Water Supplies:			
	Reviewed In: 2022	Part 1 Choice of Materials and			
16	IC 7(24 (D. +2)	General Recommendations	1 2022		
46	IS 7634 (Part 2) : 2012	Plastics Pipes Selection, Handling,	June, 2022	-	
	Reviewed In: 2022	Storage and Installation for Potable Water Supplies - Code of Practice:			
	Reviewed III . 2022	Part 2 Laying and Jointing of			
		Polyethylene (PE) Pipes (First			
		Revision)			
47	IS 7634 (Part 3):	Plastics Pipe Selection, Handling,	August, 2024	_	
	2003	Storage and Installation for Potable	6,		
	Reviewed In: 2024	Water Supplies - Code of Practice:			
		Part 3 Laying and Jointing of			
		UPVC Pipes (First Revision)			
48	IS 7834 (Part 1):	Specification for Injection	August, 2024	1	
	1987	Moulded PVC Socket Fittings with			
	Reviewed In: 2024	Solvent Cement Joints for Water			
		Supplies: Part 1 General			
		requirements (First Revision)			
49	IS 7834 (Part 2):	Specification for Injection	August, 2024	-	
	1987	Moulded PVC Socket Fittings with			
	Reviewed In: 2024	Solvent Cement Joints for Water			
		Supplies: Part 2 Specific			
		Requirements for 45 Degrees			
50	IC 7924 (Dont 2) .	Elbows (First Revision)	August 2024		
30	IS 7834 (Part 3) : 1987	Specification for Injection  Moulded PVC Socket Fittings with	August, 2024	-	
	Reviewed In: 2024	Solvent Cement Joints for Water			
	Reviewed III . 2024	Supplies: Part 3 Specific			
		Requirements for 90 Degree			
		elbows (First revision)			
51	IS 7834 (Part 4):	Specification for Injection	August, 2024	-	
	1987	Moulded PVC Socket Fittings with	-		
	Reviewed In: 2024	Solvent Cement Joints for Water			
		Supplies: Part 4 Specific			
		Requirements for 90 Degree Tees			
<u></u>	70 = 0.5 : =	(First Revision)			
52	IS 7834 (Part 5):	Specification for Injection	August, 2024	-	
	1987	Moulded PVC Socket Fittings with			
	Reviewed In: 2024	Solvent Cement Joints for Water			
		Supplies: Part 5 Specific  Paguiraments for 45 degree Tees			
		Requirements for 45 degree Tees (First Revision)			
53	IS 7834 (Part 6):	Specification for Injection	August, 2024	_	
	1987	Moulded PVC Socket Fittings with	1 145 USI, 2027		
	Reviewed In: 2024	Solvent Cement Joints for Water			
	5.2550 III . 2021	Supplies: Part 6 Specific			
		Requirements for Sockets (First			
I		l • •		I	I

		Revision)			
54	IS 7834 (Part 7):	Specification for Injection	n August, 2024 -		
	1987	Moulded PVC Socket Fittings with	ttings with		
	Reviewed In: 2024	Solvent Cement Joints for Water			
		Supplies: Part 7 Specific			
		Requirements for Unions (First			
		Revision)			
55	IS 7834 (Part 8):	Specification for Injection	August, 2024	-	
	1987	Moulded PVC Socket Fittings with			
	Reviewed In: 2024	Solvent Cement Joints for Water			
		Supplies: Part 8 Specific			
		Requirements for Caps (First			
		Revision)			
56	IS 8008 : 2022	Injection Moulded/Machined		-	Not Equivalent
	ISO 4427-1 and 3	Polyethylene Fittings for Water			
		Supply - Specification ( Second			
		Revision)			
57	IS 8360 : 2022	Fabricated Polyethylene Fittings		-	Not Equivalent
	ISO 4427-1 and 3	for Water Supply - Specification			
		(First Revision)			
58	IS 9271 : 2004	Unplasticized Polyvinyl Chloride	April, 2019	3	Indigenous
	Reviewed In: 2019	(UPVC) Single Wall Corrugated			
		Pipes for Drainage - Specification			
		(First Revision)			

# **Standards under Development**

Projects Approved						
SI. No.	SI. No. Doc No. Title					
1	CED 50 (21934)	Polypropylene PP Plastic Piping Systems for Soil and Waste Discharge within the Building				
		Structure Part 1 Monolayer Polypropylene PP Plastic Piping System				
2	CED 50 (21935)	Polypropylene PP Plastic Piping Systems for Soil and Waste Discharge within the Building				
		Structure Part 2 Structured WallMultilayer Plastic Piping System				

	Preliminary Draft Standards				
SI. No.	Doc No.	Title			
1	CED 50 (27107)	POLYPROPYLENE PP PLASTIC PIPING SYSTEMS FOR SOIL AND WASTE DISCHARGE			
		LOW AND HIGH TEMPERATURE WITHIN THE BUILDING STRUCTURE Part 1 Single			
		Layer Polypropylene PP Piping System			

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

	Draft Standards Completed WC Stage					
SI. No.	Doc No.	Title				
1	CED 50 (19776)	Unplasticized non-pressure polyvinyl chloride PVC-U pipes for use in underground drainage and				
		sewerage systems Specification				

Finalized Draft Indian Standard					
SI. No.	Doc No.	Title			
1	CED 50 (19721)	Thermoplastics Pipes and Fittings Methods of Test Part 9 Resistance to External Blows Impact			

	Finalized Draft Indian Standards under Print						
SI. No.	Doc No.	Title					
1	CED 50 (15536)	Flexible Polyvinyl Chloride Lay Flat Hose for Agricultural use - Specification					
2	CED 50 (15770)	Unplasticized Polyvinyl Chloride PVC-U Threaded Column Pipes for Borewells Tubewells -					
		Specification					
3	CED 50 (17357)	Unplasticized polyvinyl chloride PVC-U pipes Schedule 40 80 and 120 for distribution of					
		pressurized liquids - Specification					
4	CED 50 (19725)	Chlorinated Polyvinyl Chloride CPVC Pipes for Potable Hot and Cold Water Distribution					
		Supplies Specification - Amendment No 5					
5	CED 50 (19729)	Structured Wall Plastics Piping Systems for Non Pressure Drainage and Sewerage Specification					
		Part 1 Pipes and Fittings with Smooth External Surface Type A - Amendment No 3					
6	CED 50 (19730)	Structured Wall Plastics Piping Systems for Non Pressure Drainage and Sewerage Specification					
		Part 2 Pipes and Fittings with Non Smooth External Surface Type B - Amendment no 3					
7	CED 50 (19731)	Oriented Unplasticized Polyvinyl Chloride PVC-O Pipes for Water Supply - Specification					
		Amendment No 2					

### Total Published Standards:58 Total Standards Under development:12

### **Aspect Wise Report**

Product: 49
Code of Practices: 5
Methods of Test: 2
Terminology: 0
Dimensions: 0
System Standard: 0
Safety Standard: 0
Others: 2

Service Specification: 0 Process Specification: 0 Unclassified: 0

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

SI. No.	IS No. & Year	Title
1	IS 3076 : 1985	Low Density Polyethylene Pipes for Potable Water Supplies
2	IS 8008 (Part 1) : 2003 Reviewed In : 2018 ISO 4427-1:2007 ISO 4427-4:2007	Injection moulded machined high density polyethylene HDPE fittings for potable water supplies - Specification Part 1 general requirements for fittings First Revision
3	IS 8008 (Part 2) : 2003 Reviewed In : 2018 ISO 4427-1:2007 ISO 4427-4:2007	Injection moulded machined high density polyethylene HDPE fittings for potable water supplies  Specification Part 2 specific requirements for 90 deg bend First Revision
4	IS 8008 (Part 3): 2003 Reviewed In: 2018	Injection Moulded Machined High Density Polyethylene HDPE Fittings for Potable Water Supplies Part 3 Specific Requirements for 90 TEES
5	IS 8008 (Part 4) : 2003 Reviewed In : 2018 ISO 4427-1:2007 ISO 4427-4:2007	Injection moulded machined high density polyethylene HDPE fittings for potable water supplies - Specification Part 4 specific requirements for reducers First Revision
6	IS 8008 (Part 5) : 2003 Reviewed In : 2018 ISO 4427-1:2007 ISO 4427-4:2007	Injection moulded machined high density polyethylene HDPE fittings for potable water supplies Specification Part 5 specific requirements for ferrule reducers First Revision
		Injection moulded machined high density polyethylene HDPE fittings for potable water supplies

7	IS 8008 (Part 6) : 2003 Reviewed In : 2018 ISO 4427-1:2007 ISO 4427-4:2007	Specification Part 6 specific requirements for pipe ends First Revision
8	IS 8008 (Part 7) : 2003 Reviewed In : 2018 ISO 4427-1:2007 ISO 4427-4:2007	Injection ivIoulded machined high density polyethylene HDPE fittings for potable water supplies - Specification Part 7 specific requirements for sandwich flanges First Revision
9	IS 8008 (Part 8) : 2003 Reviewed In : 2018 ISO 4427-1:2007 ISO 4427-4:2007	Injection moulded machined high density polyethylene HDPE fittings for potable water supplies - Specification Part 8 specific requirements for reducing tees First Revision
10	IS 8008 (Part 9) : 2003 Reviewed In : 2018 ISO 4427-1:2007 ISO 4427-4:2007	Injection moulded machined high density polyethylene HDPE fittings for potable water supplies - Specification Part 9 specific requirements for ends caps First Revision
11	IS 8360 (Part 1): 1977 Reviewed In: 2017	fabricated high density polyethylene HDPE fittings for potable water supplies Part 1 General requirements
12	IS 8360 (Part 2) : 1977 Reviewed In : 2017	fabricated high density polyethylene MDPE fittings for potable water supplies Part 2 Specific requirements for 90 degree tees
13	IS 8360 (Part 3): 1977 Reviewed In: 2017	fabricated high density polyethylene HDPE fittings for potable water supplies Part 3 Specifc requirements for 90 degree bends

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

SI. No.	IS No. & Year	Title
1	IS 10124 (Part 1): 2009	Fabricated PVC-U Fittings for Potable Water Supplies - Specification Part 1 General
	Reviewed In: 2024 ISO	Requirements Second Revision
	1452-1:2009 ISO	
	1452-4:2009	
2	IS 10124 (Part 2): 2009	Fabricated PVC-U Fittings for Potable Water Supplies - Specification Part 2 Specific
	Reviewed In: 2024 ISO	Requirements for Sockets Second Revision
	1452-1:2009 ISO	
	1452-4:2009	
3	IS 10124 (Part 3): 2009	Fabricated PVC-U Fittings for Potable Water Supplies - Specification Part 3 Specific
	Reviewed In: 2024	Requirements for Straight Reducers Second Revision
4	IS 10124 (Part 4): 2009	Fabricated PVC-U Fittings for Potable Water Supplies - Specification Part 4 Specific
	Reviewed In: 2024 ISO	Requirements for Caps Second Revision
	1452-1:2009 ISO	
	1452-4:2009	
5	IS 10124 (Part 5): 2009	Fabricated PVC-U Fittings for Potable Water Supplies - Specification Part 5 Specific
	Reviewed In: 2024 ISO	Requirements for Equal Tees Second Revision
	1452-1:2009 ISO	
	1452-4:2009	
6	IS 10124 (Part 6): 2009	Fabricated PVC-U Fittings for Potable Water Supplies - Specification Part 6 Specific
	Reviewed In: 2024 ISO	Requirements for Flanged Tail Pieces with Metallic Flanges Second Revision
	1452-1:2009 ISO	
	1452-4:2009	
7	IS 10124 (Part 7): 2009	Fabricated PVC-U Fittings for Potable Water Supplies - Specification Part 7 Specific
	Reviewed In: 2024 ISO	Requirements for Threaded Adaptors Second Revision
	1452-1:2009 ISO	
8	1452-4:2009 IS 10124 (Part 8) : 2009	Eshuisated DVC II Eittings for Datable Water Complies Chasification Dart 9 Chasific
8	Reviewed In : 2024 ISO	Fabricated PVC-U Fittings for Potable Water Supplies - Specification Part 8 Specific
	1452-1:2009 ISO	Requirements for 90 Degree Bends Second Revision
	1452-4:2009	
9	IS 10124 (Part 9) : 2009	Fabricated PVC-U Fittings for Potable Water Supplies - Specification Part 9 Specific
7	Reviewed In : 2024 ISO	Requirements for 60 Degree Bends Second Revision
	1452-1:2009 ISO	Requirements for ou Degree Denus Second Revision
	1432-1.2009 130	

	1452-4:2009	
10	IS 10124 (Part 10): 2009	Fabricated PVC-U Fittings for Potable Water Supplies - Specification Part 10 Specific
	Reviewed In: 2024 ISO	Requirements for 45 Degree Bends Second Revision
	1452-1:2009 ISO	
	1452-4:2009	
11	IS 10124 (Part 11): 2009	Fabricated PVC-U Fittings for Potable Water Supplies - Specification Part 11 Specific
	Reviewed In: 2024 ISO	Requirements for 30 Degree Bends Second Revision
	1452-1:2009 ISO	
	1452-4:2009	
12	IS 10124 (Part 12): 2009	Fabricated PVC-U Fittings for Potable Water Supplies - Specification Part 12 Specific
	Reviewed In : 2024 ISO	Requirements for 22 Degree Bends Second Revision
	1452-1:2009 ISO	noquiomento 101 22 2 ogree 20100 200010 10 110 1101
	1452-4:2009	
13	IS 10124 (Part 13) : 2009	Fabricated PVC-U Fittings for Potable Water Supplies - Specification Part 13 Specific
13	Reviewed In: 2024	Requirements for 11 oBends PART 12 SPECIFIC REQUIREMENTS FOR 22 o BENDS
14	IS 12231 : 1987	Specification for Unplasticized PVC Pipes for Use in Suction and Delivery Lines of Agricultur
17	Reviewed In: 2024	Pump Sets
15	IS 12709 : 1994	Glass-Fibre Reinforced Plastics GRP Pipes Joints and Fittings for Use for Potable Water Supply
13	Reviewed In : 2019 ISO	Specification First Revision
	10649:2017	Specification 1 list Revision
16	IS 12818 : 2010	Unplasticized Polyvinyl Chloride PVC-U Screen and Casing Pipes for Bore Tubewells -
10	Reviewed In : 2021	Specification Second Revision
17	IS 13592 : 2013	Unplasticized Polyvinyl Chloride PVC-U Pipes for Soil and Waste Discharge System Inside an
1 /	•	
10	Reviewed In : 2024	Outside Buildings Including Ventilation and Rain Water System - Specification First Revision
18	IS 13593 : 1992	UPVC Pipe Fittings for Use with the UPVC Pipes in the Suction and Delivery Lines of
10	Reviewed In : 2022	Agricultural Pumps -Specification
19	IS 14333 : 2022	Polyethylene Pipes for Sewerage and Industrial Chemicals and Effluent - Specification First Revision
20	IS 14402 : 1996	Glass Fibre Reinforced Plastics GRP Pipes Joints and Fittings for Use for Sewerage Industrial
20	Reviewed In : 2022 ISO	Waste and Water Other than Potable - Specification
	10467:2018	waste and water Other than I otable - Specification
21	IS 14735 : 1999	Unplasticized Polyvinyl Chloride UPVC Injection Moulded Fittings for Soil and Waste Dischar
21	Reviewed In: 2024	System for Inside and Outside Buildings Including Ventilation and Rain Water System -
	Reviewed III : 2024	Specification
22	IS 14787 : 2000	Unplasticized PVC Pipes Ducts and Fittings for Underground Telecommunications Cable
22	Reviewed In: 2020	Installation - Specification
23	IS 14885 : 2022	Polyethylene Pipes for the Supply of Gaseous Fuels - Specification First Revision
23	ISO 23162:2021	1 oryentylene i tipes for the supply of Gaseous i dels - specification i fist Revision
24		
24	1 15 15265 : 2002	Elayible DVC Dines or Dolymer Deinforced Thermonlectic Hoses for Suction and Delivery Line
	IS 15265 : 2003	
25	Reviewed In: 2024	of Agricultural Pumps - Specification
25	Reviewed In: 2024 IS 15328: 2003	of Agricultural Pumps - Specification Unplasticized Non-Pressure Polyvinyl Chloride PVC-U Pipes for Use in Underground Drainage
	Reviewed In : 2024 IS 15328 : 2003 Reviewed In : 2024	of Agricultural Pumps - Specification Unplasticized Non-Pressure Polyvinyl Chloride PVC-U Pipes for Use in Underground Drainag and Sewerage Systems - Specification
25 26	Reviewed In : 2024  IS 15328 : 2003  Reviewed In : 2024  IS 15450 : 2022	of Agricultural Pumps - Specification  Unplasticized Non-Pressure Polyvinyl Chloride PVC-U Pipes for Use in Underground Drainag and Sewerage Systems - Specification  Polyethylene-Aluminium-Polyethylene Composite Pressure Pipes for Hot and Cold Water
26	Reviewed In : 2024  IS 15328 : 2003  Reviewed In : 2024  IS 15450 : 2022  ISO 5832-3: 2021	of Agricultural Pumps - Specification  Unplasticized Non-Pressure Polyvinyl Chloride PVC-U Pipes for Use in Underground Drainag and Sewerage Systems - Specification  Polyethylene-Aluminium-Polyethylene Composite Pressure Pipes for Hot and Cold Water Supplies -Specifications First Revision
	Reviewed In : 2024  IS 15328 : 2003  Reviewed In : 2024  IS 15450 : 2022  ISO 5832-3: 2021  IS 15778 : 2007	of Agricultural Pumps - Specification  Unplasticized Non-Pressure Polyvinyl Chloride PVC-U Pipes for Use in Underground Drainag and Sewerage Systems - Specification  Polyethylene-Aluminium-Polyethylene Composite Pressure Pipes for Hot and Cold Water Supplies -Specifications First Revision  Chlorinated Polyvinyl Chloride CPVC Pipes for Potable Hot and Cold Water Distribution
26	Reviewed In : 2024  IS 15328 : 2003  Reviewed In : 2024  IS 15450 : 2022  ISO 5832-3: 2021  IS 15778 : 2007  Reviewed In : 2022 ISO	of Agricultural Pumps - Specification  Unplasticized Non-Pressure Polyvinyl Chloride PVC-U Pipes for Use in Underground Drainag and Sewerage Systems - Specification  Polyethylene-Aluminium-Polyethylene Composite Pressure Pipes for Hot and Cold Water Supplies -Specifications First Revision
26	Reviewed In: 2024  IS 15328: 2003  Reviewed In: 2024  IS 15450: 2022  ISO 5832-3: 2021  IS 15778: 2007  Reviewed In: 2022 ISO 15877-1:2009 ISO	of Agricultural Pumps - Specification  Unplasticized Non-Pressure Polyvinyl Chloride PVC-U Pipes for Use in Underground Drainag and Sewerage Systems - Specification  Polyethylene-Aluminium-Polyethylene Composite Pressure Pipes for Hot and Cold Water Supplies -Specifications First Revision  Chlorinated Polyvinyl Chloride CPVC Pipes for Potable Hot and Cold Water Distribution
26	Reviewed In: 2024  IS 15328: 2003 Reviewed In: 2024  IS 15450: 2022 ISO 5832-3: 2021  IS 15778: 2007 Reviewed In: 2022 ISO 15877-1:2009 ISO 15877-2:2009	of Agricultural Pumps - Specification  Unplasticized Non-Pressure Polyvinyl Chloride PVC-U Pipes for Use in Underground Drainag and Sewerage Systems - Specification  Polyethylene-Aluminium-Polyethylene Composite Pressure Pipes for Hot and Cold Water Supplies -Specifications First Revision  Chlorinated Polyvinyl Chloride CPVC Pipes for Potable Hot and Cold Water Distribution Supplies - Specification
26	Reviewed In: 2024  IS 15328: 2003  Reviewed In: 2024  IS 15450: 2022  ISO 5832-3: 2021  IS 15778: 2007  Reviewed In: 2022 ISO  15877-1:2009 ISO  15877-2:2009  IS 15801: 2008	of Agricultural Pumps - Specification  Unplasticized Non-Pressure Polyvinyl Chloride PVC-U Pipes for Use in Underground Drainag and Sewerage Systems - Specification  Polyethylene-Aluminium-Polyethylene Composite Pressure Pipes for Hot and Cold Water Supplies -Specifications First Revision  Chlorinated Polyvinyl Chloride CPVC Pipes for Potable Hot and Cold Water Distribution
26	Reviewed In: 2024  IS 15328: 2003  Reviewed In: 2024  IS 15450: 2022  ISO 5832-3: 2021  IS 15778: 2007  Reviewed In: 2022 ISO  15877-1:2009 ISO  15877-2:2009  IS 15801: 2008  Reviewed In: 2022 ISO	of Agricultural Pumps - Specification  Unplasticized Non-Pressure Polyvinyl Chloride PVC-U Pipes for Use in Underground Drainag and Sewerage Systems - Specification  Polyethylene-Aluminium-Polyethylene Composite Pressure Pipes for Hot and Cold Water Supplies -Specifications First Revision  Chlorinated Polyvinyl Chloride CPVC Pipes for Potable Hot and Cold Water Distribution Supplies - Specification
26	Reviewed In: 2024  IS 15328: 2003  Reviewed In: 2024  IS 15450: 2022  ISO 5832-3: 2021  IS 15778: 2007  Reviewed In: 2022 ISO  15877-1:2009 ISO  15877-2:2009  IS 15801: 2008  Reviewed In: 2022 ISO  15874-1:2014 ISO	of Agricultural Pumps - Specification  Unplasticized Non-Pressure Polyvinyl Chloride PVC-U Pipes for Use in Underground Drainag and Sewerage Systems - Specification  Polyethylene-Aluminium-Polyethylene Composite Pressure Pipes for Hot and Cold Water Supplies -Specifications First Revision  Chlorinated Polyvinyl Chloride CPVC Pipes for Potable Hot and Cold Water Distribution Supplies - Specification
26 27 28	Reviewed In: 2024  IS 15328: 2003  Reviewed In: 2024  IS 15450: 2022  ISO 5832-3: 2021  IS 15778: 2007  Reviewed In: 2022 ISO  15877-1:2009 ISO  15877-2:2009  IS 15801: 2008  Reviewed In: 2022 ISO  15874-1:2014 ISO  15874-2:2014	Of Agricultural Pumps - Specification  Unplasticized Non-Pressure Polyvinyl Chloride PVC-U Pipes for Use in Underground Drainage and Sewerage Systems - Specification  Polyethylene-Aluminium-Polyethylene Composite Pressure Pipes for Hot and Cold Water Supplies - Specifications First Revision  Chlorinated Polyvinyl Chloride CPVC Pipes for Potable Hot and Cold Water Distribution Supplies - Specification  Polypropylene - Random Copolymer Pipes for Hot and Cold Water Supplies - Specification
26	Reviewed In: 2024  IS 15328: 2003 Reviewed In: 2024  IS 15450: 2022 ISO 5832-3: 2021  IS 15778: 2007 Reviewed In: 2022 ISO 15877-1:2009 ISO 15877-2:2009  IS 15801: 2008 Reviewed In: 2022 ISO 15874-1:2014 ISO 15874-2:2014  IS 15927 (Part 1): 2012	Of Agricultural Pumps - Specification  Unplasticized Non-Pressure Polyvinyl Chloride PVC-U Pipes for Use in Underground Drainag and Sewerage Systems - Specification  Polyethylene-Aluminium-Polyethylene Composite Pressure Pipes for Hot and Cold Water Supplies - Specifications First Revision  Chlorinated Polyvinyl Chloride CPVC Pipes for Potable Hot and Cold Water Distribution Supplies - Specification  Polypropylene - Random Copolymer Pipes for Hot and Cold Water Supplies - Specification  Polyethylene Fittings for Use with Polyethylene Pipes for the Supply of Gaseous Fuels -
26 27 28	Reviewed In: 2024  IS 15328: 2003  Reviewed In: 2024  IS 15450: 2022  ISO 5832-3: 2021  IS 15778: 2007  Reviewed In: 2022 ISO  15877-1:2009 ISO  15877-2:2009  IS 15801: 2008  Reviewed In: 2022 ISO  15874-1:2014 ISO  15874-2:2014  IS 15927 (Part 1): 2012  Reviewed In: 2022 ISO	Of Agricultural Pumps - Specification  Unplasticized Non-Pressure Polyvinyl Chloride PVC-U Pipes for Use in Underground Drainage and Sewerage Systems - Specification  Polyethylene-Aluminium-Polyethylene Composite Pressure Pipes for Hot and Cold Water Supplies - Specifications First Revision  Chlorinated Polyvinyl Chloride CPVC Pipes for Potable Hot and Cold Water Distribution Supplies - Specification  Polypropylene - Random Copolymer Pipes for Hot and Cold Water Supplies - Specification
26 27 28	Reviewed In: 2024  IS 15328: 2003  Reviewed In: 2024  IS 15450: 2022  ISO 5832-3: 2021  IS 15778: 2007  Reviewed In: 2022 ISO  15877-1:2009 ISO  15877-2:2009  IS 15801: 2008  Reviewed In: 2022 ISO  15874-1:2014 ISO  15874-2:2014  IS 15927 (Part 1): 2012  Reviewed In: 2022 ISO  4447-1:2014 ISO	Of Agricultural Pumps - Specification  Unplasticized Non-Pressure Polyvinyl Chloride PVC-U Pipes for Use in Underground Drainag and Sewerage Systems - Specification  Polyethylene-Aluminium-Polyethylene Composite Pressure Pipes for Hot and Cold Water Supplies - Specifications First Revision  Chlorinated Polyvinyl Chloride CPVC Pipes for Potable Hot and Cold Water Distribution Supplies - Specification  Polypropylene - Random Copolymer Pipes for Hot and Cold Water Supplies - Specification  Polyethylene Fittings for Use with Polyethylene Pipes for the Supply of Gaseous Fuels -
26 27 28 29	Reviewed In: 2024  IS 15328: 2003  Reviewed In: 2024  IS 15450: 2022  ISO 5832-3: 2021  IS 15778: 2007  Reviewed In: 2022 ISO  15877-1:2009 ISO  15877-2:2009  IS 15801: 2008  Reviewed In: 2022 ISO  15874-1:2014 ISO  15874-2:2014  IS 15927 (Part 1): 2012  Reviewed In: 2022 ISO  4447-1:2014 ISO  4447-4:2014	Of Agricultural Pumps - Specification  Unplasticized Non-Pressure Polyvinyl Chloride PVC-U Pipes for Use in Underground Drainag and Sewerage Systems - Specification  Polyethylene-Aluminium-Polyethylene Composite Pressure Pipes for Hot and Cold Water Supplies - Specifications First Revision  Chlorinated Polyvinyl Chloride CPVC Pipes for Potable Hot and Cold Water Distribution Supplies - Specification  Polypropylene - Random Copolymer Pipes for Hot and Cold Water Supplies - Specification  Polyethylene Fittings for Use with Polyethylene Pipes for the Supply of Gaseous Fuels - Specification Part 1 Fittings for Socket Fusion Using Heated Tools
26 27 28	Reviewed In: 2024  IS 15328: 2003  Reviewed In: 2024  IS 15450: 2022  ISO 5832-3: 2021  IS 15778: 2007  Reviewed In: 2022 ISO  15877-1:2009 ISO  15877-2:2009  IS 15801: 2008  Reviewed In: 2022 ISO  15874-1:2014 ISO  15874-2:2014  IS 15927 (Part 1): 2012  Reviewed In: 2022 ISO  4447-1:2014 ISO	Of Agricultural Pumps - Specification  Unplasticized Non-Pressure Polyvinyl Chloride PVC-U Pipes for Use in Underground Drainag and Sewerage Systems - Specification  Polyethylene-Aluminium-Polyethylene Composite Pressure Pipes for Hot and Cold Water Supplies - Specifications First Revision  Chlorinated Polyvinyl Chloride CPVC Pipes for Potable Hot and Cold Water Distribution Supplies - Specification  Polypropylene - Random Copolymer Pipes for Hot and Cold Water Supplies - Specification  Polyethylene Fittings for Use with Polyethylene Pipes for the Supply of Gaseous Fuels -
26 27 28 29	Reviewed In: 2024  IS 15328: 2003  Reviewed In: 2024  IS 15450: 2022  ISO 5832-3: 2021  IS 15778: 2007  Reviewed In: 2022 ISO  15877-1:2009 ISO  15877-2:2009  IS 15801: 2008  Reviewed In: 2022 ISO  15874-1:2014 ISO  15874-2:2014  IS 15927 (Part 1): 2012  Reviewed In: 2022 ISO  4447-1:2014 ISO  4447-4:2014	Unplasticized Non-Pressure Polyvinyl Chloride PVC-U Pipes for Use in Underground Drainag and Sewerage Systems - Specification  Polyethylene-Aluminium-Polyethylene Composite Pressure Pipes for Hot and Cold Water Supplies - Specifications First Revision  Chlorinated Polyvinyl Chloride CPVC Pipes for Potable Hot and Cold Water Distribution Supplies - Specification  Polypropylene - Random Copolymer Pipes for Hot and Cold Water Supplies - Specification  Polyethylene Fittings for Use with Polyethylene Pipes for the Supply of Gaseous Fuels - Specification Part 1 Fittings for Socket Fusion Using Heated Tools

	4447-4:2014	
31	IS 15927 (Part 3): 2011	Polyethylene Fittings for Use with Polyethylene Pipes for the Supply of Gaseous Fuels -
	Reviewed In: 2021	Specification Part 3 Electro Fusion Fittings
32	IS 16098 (Part 1): 2013	Structured-Wall Plastics Piping Systems for Non-Pressure Drainage and Sewerage - Specification
	Reviewed In: 2022	Part 1 Pipes and Fittings with Smooth External Surface Type A
33	IS 16098 (Part 2): 2013	Structured-Wall Plastics Piping Systems for Non-Pressure Drainage and Sewerage Specification
	Reviewed In: 2022	Part 2 Pipes and Fittings with Non-Smooth External Surface Type B
34	IS 16647 : 2017	Oriented Unplasticized Polyvinyl Chloride PVC-O Pipes for Water Supply - Specification
	Reviewed In: 2022 ISO	
	16422:2014	
35	IS 17544 : 2022	Multilayer PE-AL-PE Plastic Piping Systems for Indoor Gas Installations with a Maximum
33	ISO 14621-1:2019	Operating Pressure up to and Including 500 kPa 5 bar - Specification
36	IS 17546 : 2021	Chlorinated Polyvinyl Chloride C P V C Fittings For Potable Hot And Cold Water Distribution
50	ISO 14403-2 : 2012	Supplies Specification
37	IS 4984 : 2016	Polyethylene Pipes for Water Supply - Specification Fifth Revision
31	15 4504 . 2010	Toryoniyiche Tipes for water suppry specification Titul Revision
	Reviewed In: 2021 ISO	
	4427-1:2007 ISO	
	4427-2:2019	
38	IS 4985 : 2021	Unplasticized PVC Pipes for Potable Water Supplies - Specification Fourth Revision
50	IEC 62153-4-3: 2013	Onpusueized 1 ve 1 ipes for 1 otable water supplies specification 1 out in Revision
39	IS 7834 (Part 1): 1987	Specification for Injection Moulded PVC Socket Fittings with Solvent Cement Joints for Water
3)	Reviewed In: 2024	Supplies Part 1 General requirements First Revision
40	IS 7834 (Part 2) : 1987	Specification for Injection Moulded PVC Socket Fittings with Solvent Cement Joints for Water
10	Reviewed In: 2024	Supplies Part 2 Specific Requirements for 45 Degrees Elbows First Revision
41	IS 7834 (Part 3) : 1987	Specification for Injection Moulded PVC Socket Fittings with Solvent Cement Joints for Water
	Reviewed In: 2024	Supplies Part 3 Specific Requirements for 90 Degree elbows First revision
42	IS 7834 (Part 4): 1987	Specification for Injection Moulded PVC Socket Fittings with Solvent Cement Joints for Water
	Reviewed In: 2024	Supplies Part 4 Specific Requirements for 90 Degree Tees First Revision
43	IS 7834 (Part 5) : 1987	Specification for Injection Moulded PVC Socket Fittings with Solvent Cement Joints for Water
	Reviewed In: 2024	Supplies Part 5 Specific Requirements for 45 degree Tees First Revision
44	IS 7834 (Part 6): 1987	Specification for Injection Moulded PVC Socket Fittings with Solvent Cement Joints for Water
	Reviewed In: 2024	Supplies Part 6 Specific Requirements for Sockets First Revision
45	IS 7834 (Part 7): 1987	Specification for Injection Moulded PVC Socket Fittings with Solvent Cement Joints for Water
	Reviewed In: 2024	Supplies Part 7 Specific Requirements for Unions First Revision
46	IS 7834 (Part 8) : 1987	Specification for Injection Moulded PVC Socket Fittings with Solvent Cement Joints for Water
-	Reviewed In: 2024	Supplies Part 8 Specific Requirements for Caps First Revision
47	IS 8008 : 2022	Injection Moulded Machined Polyethylene Fittings for Water Supply - Specification Second
	ISO/PAS 50010 : 2023	Revision
48	IS 8360 : 2022	Fabricated Polyethylene Fittings for Water Supply - Specification First Revision
-	ISO/TS 50011 : 2023	, , , , , , , , , , , , , , , , , , , ,
49	IS 9271 : 2004	Unplasticized Polyvinyl Chloride UPVC Single Wall Corrugated Pipes for Drainage -
	1	Specification First Revision