National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : CENTRAL INSTITUTE OF PETROCHEMICALS ENGINEERING & TECHNOLOGY, EPIP COMPLEX, HAJIPUR INDUSTRIAL AREA, HAJIPUR, VAISHALI, BIHAR, INDIA

Accreditation Standard ISO/IEC 17025:2017

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CHEMICAL- PLASTIC & RESINS	Containers for Packaging of Natural Mineral Water and Packaged Drinking Water	Migration Test	IS 9845
2	CHEMICAL- PLASTIC & RESINS	CPVC Pipes for Portable Hot and Cold Water Distribution Supply	Effect on Water Test	IS 15778
3	CHEMICAL- PLASTIC & RESINS	High Density PE Pipes for Portable Water Supplies	Carbon Black Content	IS 2530
4	CHEMICAL- PLASTIC & RESINS	High Density PE Pipes for Portable Water Supplies	Carbon Black Dispersion	IS 2530
5	CHEMICAL- PLASTIC & RESINS	High Density PE Pipes for Portable Water Supplies	Migration Test	IS 9845
6	CHEMICAL- PLASTIC & RESINS	High Density PE Pipes for Portable Water Supplies	Oxidation Induction Time	IS 4984
7	CHEMICAL- PLASTIC & RESINS	High Density Polyethylene (HDPE) Crates for Milk Satchets	Resistance to Stress	IS 11584
8	CHEMICAL- PLASTIC & RESINS	Injection Moulded PVC Fittings with Solvent Cement Joints for Water Supplies	Effect on Water Test	IS 7834 (Part-1)
9	CHEMICAL- PLASTIC & RESINS	Irrigation Equipment Sprinkler Pipe Specification Polyethylene Pipe	Carbon Black Content	IS 14151 (Part-1)
10	CHEMICAL- PLASTIC & RESINS	Irrigation Equipment Sprinkler Pipe Specification Polyethylene Pipe	Carbon Black Dispersion	IS 14151 (Part-1)
11	CHEMICAL- PLASTIC & RESINS	Low Density Polyethylene Films	Carbon Black Dispersion	IS 2530
12	CHEMICAL- PLASTIC & RESINS	Low Density Polyethylene Films	Migration Test	IS 9845
13	CHEMICAL- PLASTIC & RESINS	Polyethylene Pipes for Irrigation Laterals Specification	Carbon Black Content	IS 2530
14	CHEMICAL- PLASTIC & RESINS	Polyethylene Pipes for Irrigation Laterals Specification	Carbon Black Dispersion	IS 2530
15	CHEMICAL- PLASTIC & RESINS	Polyethylene Pipes for Irrigation Laterals Specification	Susceptibility to environmental Stress Cracking	IS 12786
16	CHEMICAL- PLASTIC & RESINS	Polyethylene Pouches for Packaging Liquid Milk-Specification	Ink Adhesion Test (Printing Requirement)	IS 11805
17	CHEMICAL- PLASTIC & RESINS	PVC resin	VCM Content	IS 10151
18	CHEMICAL- PLASTIC & RESINS	Quick Coupled Fittings (HDPE Coupler)	Carbon Black Content	IS 14151 (Part-1)

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19	CHEMICAL- PLASTIC & RESINS	Quick Coupled Fittings (HDPE Coupler)	Carbon Black Dispersion	IS 14151 (Part-1)
20	CHEMICAL- PLASTIC & RESINS	Quick Coupled Pipe & Fittings	Carbon Black Content	IS 14151 (Part-1)
21	CHEMICAL- PLASTIC & RESINS	Quick Coupled Pipe & Fittings	Carbon Black Dispersion	IS 14151 (Part-1)
22	CHEMICAL- PLASTIC & RESINS	Rotational Moulded Polyethylene Water Storage Tanks	Carbon Black Content	IS 2530
23	CHEMICAL- PLASTIC & RESINS	Rotational Moulded Polyethylene Water Storage Tanks	Carbon Black Dispersion	IS 2530
24	CHEMICAL- PLASTIC & RESINS	Rotational Moulded Polyethylene Water Storage Tanks	Migration Test in Distilled Water	IS 9845
25	CHEMICAL- PLASTIC & RESINS	RPVC Pipes for use as Underground Cable Conduits in Concrete/Sand Encasement DOT Specification	Stress Relief Test	IS 12235 (Part-6)
26	CHEMICAL- PLASTIC & RESINS	UPVC Injection Moulded Fittings for SWR	Titaniun Di Oxide Content	IS 14735
27	CHEMICAL- PLASTIC & RESINS	UPVC Pipe for Soil and Waste Discharge System	K Value of PVC Resin	IS 4669
28	CHEMICAL- PLASTIC & RESINS	UPVC Pipe for Soil and Waste Discharge System	Resistance to Sulphuric Acid	IS 12235 (Part-7)
29	CHEMICAL- PLASTIC & RESINS	UPVC Pipe for Soil and Waste Discharge System Inside and Outside Building Including Ventilation and Rain Water System	Resistance to Dichloromethane Test	IS 13592
30	CHEMICAL- PLASTIC & RESINS	UPVC Pipes for Portable Water Supplies	Effect on Water Test	IS 12235 (Part-4, Part-10 & Part-11)
31	CHEMICAL- PLASTIC & RESINS	UPVC Pipes for Portable Water Supplies	Sulphated Ash Content	IS 4985
32	CHEMICAL- PLASTIC & RESINS	UPVC Pipes for Portable Water Supplies	Vicat Softening Temp.	IS 12235 (Part-2)
33	CHEMICAL- PLASTIC & RESINS	UPVC Pipes for Portable Water Supply	K Value of PVC Resin	IS 4669
34	CHEMICAL- PLASTIC & RESINS	UPVC Screen and Casing Pipes for Bore/Tube Well	Effect on Water Test	IS 12235 (Part-4, Part-10 & Part-11)
35	CHEMICAL- PLASTIC & RESINS	UPVC Screen and Casing Pipes for Bore/Tube Well	K Value of PVC Resin	IS 4669
36	CHEMICAL- PLASTIC & RESINS	UPVC Screen and Casing Pipes for Bore/Tube Well	Vicat Softening Temp.	IS 12235

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
37	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Quick Coupled Pipe & Fittings	Melt Flow Index	IS 14151 (Part-1)
38	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Fabricated PVC Fittings for Portable Water Supplies	Dimension (Mean Socket Internal Diameter at Mid-Point of Depth of Engagement)	IS 10124 (Part-1)
39	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Fabricated PVC Fittings for Portable Water Supplies	Dimension (Mean Socket Internal Diameter at Mid-Point of Socket Length)	IS 10124 (Part-1)
40	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Fabricated PVC Fittings for Portable Water Supplies	Dimension (Minimum Depth of Engagement)	IS 10124 (Part-1)
41	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Fabricated PVC Fittings for Portable Water Supplies	Dimension (Out of Roundness Tolerance of Socket Inside Diameter)	IS 10124 (Part-1)
42	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Fabricated PVC Fittings for Portable Water Supplies	Dimension (Socket Length)	IS 10124 (Part-1)
43	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Fabricated PVC Fittings for Portable Water Supplies	Opacity	IS 10124 (Part-1)
44	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Fabricated PVC Fittings for Portable Water Supplies	Short Term Hydraulic Test	IS 10124 (Part-1)
45	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	High Density PE Pipes for Portable Water Supplies	Tensile Strength for Butt-fusion	IS 4984
46	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	High Density PE Pipes for Portable Water Supplies	Elongation at Break	IS 4984
47	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	High Density PE Pipes for Portable Water Supplies	Slow Crack Growth Rate	IS 4984
48	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	High Density Polyethylene (HDPE) Crates for Milk Sachets	Appearance and Surface Finish	IS 11584
49	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	High Density Polyethylene (HDPE) Crates for Milk Sachets	Density	IS 7328
50	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	High Density Polyethylene (HDPE) Crates for Milk Sachets	Dimension (Length, Width, Height)	IS 11584
51	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	High Density Polyethylene (HDPE) Crates for Milk Sachets	Dimensional Stability	IS 11584
52	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	High Density Polyethylene (HDPE) Crates for Milk Sachets	Resistance to applied Load	IS 11584
53	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	High Density Polyethylene (HDPE) Crates for Milk Sachets	Resistance to Drop (Free Fall)	IS 11584
54	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	High Density Polyethylene (HDPE) Crates for Milk Sachets	Resistance to Low Temp. Drop	IS 11584

SCOPE OF ACCREDITATION

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
55	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	High Density Polyethylene (HDPE) Crates for Milk Sachets	Shape	IS 11584
56	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	High Density Polyethylene Pipes for Portable Water Supplies	Colour	IS 4984
57	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	High Density Polyethylene Pipes for Portable Water Supplies	Density	IS 7328
58	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	High Density Polyethylene Pipes for Portable Water Supplies	Dimension (Length of Pipe)	IS 4984
59	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	High Density Polyethylene Pipes for Portable Water Supplies	Dimension (Outside Diameter)	IS 4984
60	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	High Density Polyethylene Pipes for Portable Water Supplies	Dimension (Ovality)	IS 4984
61	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	High Density Polyethylene Pipes for Portable Water Supplies	Dimension (Wall Thickness)	IS 4984
62	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	High Density Polyethylene Pipes for Portable Water Supplies	Elongation at Break	IS 4984
63	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	High Density Polyethylene Pipes for Portable Water Supplies	Internal Pressure Creep Rupture Test of Pipe Joints	IS 4984
64	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	High Density Polyethylene Pipes for Portable Water Supplies	Length of Pipe	IS 4984
65	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	High Density Polyethylene Pipes for Portable Water Supplies	Melt Flow Index	IS 2530
66	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	High Density Polyethylene Pipes for Portable Water Supplies	Oxidation Induction Time	IS 4984
67	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	High Density Polyethylene Pipes for Portable Water Supplies	Performance Requirement (Acceptance and Type Test)	IS 4984
68	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	High Density Polyethylene Pipes for Portable Water Supplies	Reversion Test	IS 4984
69	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	High Density Polyethylene Pipes for Portable Water Supplies	Slow Crack Growth Rate	IS 4984
70	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	High Density Polyethylene Pipes for Portable Water Supplies	Tensile Strength for Butt Fusion	IS 4984
71	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Injection Moulded PVC Fitting with Solvent Cement Joints for Water Supplies	Dimension (Mean Socket Internal Diameter at Mid-Point of Socket Length)	IS 7834
72	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Injection Moulded PVC Fitting with Solvent Cement Joints for Water Supplies	Dimension (Out of Roundness Tolerance of Socket Inside Diameter)	IS 7834

SCOPE OF ACCREDITATION

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Accreditation Standard	ISO/IEC 17025:2017		
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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
73	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Injection Moulded PVC Fitting with Solvent Cement Joints for Water Supplies	Dimension (Socket Length)	IS 7834
74	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Injection Moulded PVC Fitting with Solvent Cement Joints for Water Supplies	Dimension (Thickness)	IS 7834
75	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Injection Moulded PVC Fitting with Solvent Cement Joints for Water Supplies	Opacity	IS 7834
76	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Injection Moulded PVC Fitting with Solvent Cement Joints for Water Supplies	Short Term Hydraulic Test	IS 7834
77	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Injection Moulded PVC Fitting with Solvent Cement Joints for Water Supplies	Stress Relief Test	IS 7834
78	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation Equipment Polyethylene Pipe for Irrigation Laterals Specification	Hydraulic Characteristics (Acceptance Test & Type Test)	IS 12786
79	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation Equipment Polyethylene Pipe for Irrigation Laterals Specification	Reversion Test	IS 12786
80	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation Equipment Polyethylene Pipe for Irrigation Laterals Specification	Tensile Strength	IS 12786
81	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation Equipment Polyethylene Pipes for Irrigation Laterals Specifications	Dimension (Length of Pipe)	IS 12786
82	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation Equipment Polyethylene Pipes for Irrigation Laterals Specifications	Dimension (Outside Diameter)	IS 12786
83	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation Equipment Polyethylene Pipes for Irrigation Laterals Specifications	Dimension (Ovality)	IS 12786
84	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation Equipment Polyethylene Pipes for Irrigation Laterals Specifications	Dimension (Wall Thickness)	IS 12786
85	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation Equipment Sprinkler Pipe- Specification Polyethylene Pipe	Density	IS 7328
86	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation Equipment Sprinkler Pipe- Specification Polyethylene Pipe	Dimension (Length of Pipe)	IS 14151(Part-1)
87	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation Equipment Sprinkler Pipe- Specification Polyethylene Pipe	Dimension (Outside Diameter)	IS 14151 (Part-1)
88	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation Equipment Sprinkler Pipe- Specification Polyethylene Pipe	Dimension (Ovality)	IS 14151(Part-1)
89	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation Equipment Sprinkler Pipe- Specification Polyethylene Pipe	Dimension (Wall Thickness)	IS 14151(Part-1)
90	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation Equipment Sprinkler Pipe- Specification Polyethylene Pipe	Elongation at Break	IS 14151 (Part-1)
91	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation Equipment Sprinkler Pipe- Specification Polyethylene Pipe	Fusion Compatibility (Acceptance & Type Test)	IS 14151 (Part-1)

SCOPE OF ACCREDITATION

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
92	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation Equipment Sprinkler Pipe- Specification Polyethylene Pipe	Hydraulic Characteristics (Acceptance Test & Type Test)	IS 14151 (Part-1)
93	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation Equipment Sprinkler Pipe- Specification Polyethylene Pipe	Melt Flow Index	IS 14151
94	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation Equipment Sprinkler Pipe- Specification Polyethylene Pipe	Reversion	IS 14151 (Part-1)
95	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation Equipment Sprinkler Pipe- Specification Polyethylene Pipe	Tensile Strength	IS 14151 (Part-1)
96	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Low Density Polyethylene Films	Dart Impact Resistance	IS 2508
97	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Low Density Polyethylene Films	Density	IS 2508
98	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Low Density Polyethylene Films	Elongation at Break	IS 2508
99	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Low Density Polyethylene Films	Gloss	IS 2508
100	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Low Density Polyethylene Films	Haze	IS 2508
101	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Low Density Polyethylene Films	Melt Flow Rate	IS 2508
102	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Low Density Polyethylene Films	Slip	IS 2508
103	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Low Density Polyethylene Films	Tensile Strength	IS 2508
104	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Low Density Polyethylene Films	Thickness	IS 2508
105	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Low Density Polyethylene Films	Width	IS 2508
106	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics Bottles/Containers for Packaged Natural Mineral Water and Packaged Drinking Water	Capacity	IS 2798
107	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics Bottles/Containers for Packaged Natural Mineral Water and Packaged Drinking Water	Drop Test	IS 2798
108	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics Bottles/Containers for Packaged Natural Mineral Water and Packaged Drinking Water	Leakage Test	IS 2798
109	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics Bottles/Containers for Packaged Natural Mineral Water and Packaged Drinking Water	Transparency	IS 15410
110	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics Bottles/Containers for Packaged Natural Mineral Water and Packaged Drinking Water	Wall Thickness	IS 2798

SCOPE OF ACCREDITATION

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111	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastics Bottles/Containers for Packaged Natural Mineral Water and Packaged Drinking Water	Water Portability	IS 2798
112	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene Pouches for Packaging Liquid Milk Specification	Dart Impact Resistance (Free Fall)	IS 2508
113	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene Pouches for Packaging Liquid Milk Specification	Drop Test	IS 11805
114	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene Pouches for Packaging Liquid Milk Specification	Elongation at Break	Is 2508
115	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene Pouches for Packaging Liquid Milk Specification	Leak Test	IS 11805
116	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene Pouches for Packaging Liquid Milk Specification	Odour	IS 11805
117	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene Pouches for Packaging Liquid Milk Specification	Slip	IS 2508
118	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene Pouches for Packaging Liquid Milk Specification	Tensile Strength	IS 2508
119	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene Pouches for Packaging Liquid Milk Specification	Thickness	IS 11805
120	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene Pouches for Packaging Liquid Milk Specification	Width	IS 11805
121	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Quick Coupled Pipe & Fittings	Dimension (Outside Diameter)	IS 14151 (Part-1)
122	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Quick Coupled Pipe & Fittings	Density	IS 14151 (Part-1)
123	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Quick Coupled Pipe & Fittings	Dimension (Length of Pipe)	IS 14151(Part-1)
124	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Quick Coupled Pipe & Fittings	Dimension (Ovality)	IS 14151(Part-1)
125	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Quick Coupled Pipe & Fittings	Dimension (Wall Thickness)	IS 14151(Part-1)
126	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Quick Coupled Pipe & Fittings	Elongation at Break	IS 14151 (Part-1)
127	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Quick Coupled Pipe & Fittings	Fusion Compatibility (Acceptance & Type Test)	IS 14151 (Part-1)
128	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Quick Coupled Pipe & Fittings	Hydraulic Characteristics	IS 14151 (Part-1)
129	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Quick Coupled Pipe & Fittings	Melt Flow Index	IS 14151 (Part-1)

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130	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Quick Coupled Pipe & Fittings	Reversion	IS 14151 (Part-1)
131	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Quick Coupled Pipe & Fittings	Tensile Strength	IS 14151 (Part-1)
132	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Quick Coupled Pipe & Fittings (HDPE Coupler)	Holding Attachments for Coupler Parts	IS 14151 (Part-2)
133	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Quick Coupled Pipe & Fittings (HDPE Coupler)	Melt Flow Index	IS 14151 (Part-1)
134	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Quick Coupled Pipe & Fittings (HDPE Coupler)	Shore Hardness after Aging	IS 14151 (Part-2)
135	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Quick Coupled Pipe & Fittings (HDPE Coupler)	Shore Hardness before Aging	IS 14151 (Part-2)
136	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Rotational Moulded Polyethylene Water Storage Tank	Density	IS 7328
137	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Rotational Moulded Polyethylene Water Storage Tank	Dimension for (Vertical & Loft tank)	IS 12701
138	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Rotational Moulded Polyethylene Water Storage Tank	Dimension for (Vertical & Loft tank) (Inlet level and Outlet level)	IS 12701
139	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Rotational Moulded Polyethylene Water Storage Tank	Finish	IS 12701
140	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Rotational Moulded Polyethylene Water Storage Tank	Flexural Modulus	IS 13360 (Part-5 & Sec 7)
141	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Rotational Moulded Polyethylene Water Storage Tank	Height, Diameter (Overall & Manhole)	IS 12701
142	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Rotational Moulded Polyethylene Water Storage Tank	Internal Dia of Man Hole/Head Hole	IS 12701
143	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Rotational Moulded Polyethylene Water Storage Tank	Melt Flow Rate	IS 2530
144	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Rotational Moulded Polyethylene Water Storage Tank	Net/ Gross Capacity	IS 12701
145	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Rotational Moulded Polyethylene Water Storage Tank	Resistance to Deformation	IS 12701
146	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Rotational Moulded Polyethylene Water Storage Tank	Resistance to Impact	IS 12701
147	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Rotational Moulded Polyethylene Water Storage Tank	Tensile Strength	IS 8543 (Part-5& Sec 1)

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
148	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Rotational Moulded Polyethylene Water Storage Tank	Top Load Resistance	IS 12701
149	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Rotational Moulded Polyethylene Water Storage Tank	Wall Thickness	IS 12701
150	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Rotational Moulded Polyethylene Water Storage Tank	Weight	IS 12701
151	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Rotational Moulded Polyethylene Water Storage Tank	Wide Band	IS 12701
152	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	RPVC Pipes for use as Underground Cable Conduits in Concrete/Sand Encasement DOT Specification G/CDS-03/02 Oct.9	Dimension (Outside Diameter)	IS 4985
153	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	RPVC Pipes for use as Underground Cable Conduits in Concrete/Sand Encasement DOT Specification G/CDS-03/02 Oct.9	Impact Resistance (Free Fall)	IS 12235 (Part-9)
154	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	RPVC Pipes for use as Underground Cable Conduits in Concrete/Sand Encasement DOT Specification G/CDS-03/02 Oct.9	Load Deformation	ASTM D 2412
155	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	RPVC Pipes for use as Underground Cable Conduits in Concrete/Sand Encasement DOT Specification G/CDS-03/02 Oct.9	Reversion	IS 12235 (Part-5)
156	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	RPVC Pipes for use as Underground Cable Conduits in Concrete/Sand Encasement DOT Specification G/CDS-03/02 Oct.	Dimension (Ovality)	IS 4985
157	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	RPVC Pipes for use as Underground Cable Conduits in Concrete/Sand Encasement DOT Specification G/CDS-03/02 Oct.9	Dimension (Length of Pipe)	IS 4985
158	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	RPVC Pipes for use as Underground Cable Conduits in Concrete/Sand Encasement DOT Specification G/CDS-03/02 Oct.9	Dimension (Wall Thickness)	IS 4985
159	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textile High Density Polyethylene (HDPE)/Polypropylene (PP) Woven Sacks for Packaging 50kg/25kg food grains	Dimension (Width)	IS 14887
160	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textile High Density Polyethylene (HDPE)/Polypropylene (PP) Woven Sacks for Packaging 50kg/25kg food grains	Dimension of Woven Sack (Width)	IS 14887
161	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textile High Density Polyethylene (HDPE)/Polypropylene (PP) Woven Sacks for Packaging 50kg/25kg food grains	Dimension of Fabric	IS 14887
162	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textile High Density Polyethylene (HDPE)/Polypropylene (PP) Woven Sacks for Packaging 50kg/25kg food grains	Dimension of Fabric (Length)	IS 14887
163	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textile High Density Polyethylene (HDPE/Polypropylene (PP) Woven Sack for Packaging 10kg, 20kg, 25kg, & 30kg Food Grains-Specifications	Ash Content	IS 16208

SCOPE OF ACCREDITATION

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
164	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textile High Density Polyethylene (HDPE/Polypropylene (PP) Woven Sack for Packaging 10kg, 20kg, 25kg, & 30kg Food Grains-Specifications	Average Breaking Strength of Fabrics	IS 1969 (Part-1)
165	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textile High Density Polyethylene (HDPE/Polypropylene (PP) Woven Sack for Packaging 10kg, 20kg, 25kg, & 30kg Food Grains-Specifications	Dimension of Fabric (Width)	IS 16028
166	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textile High Density Polyethylene (HDPE/Polypropylene (PP) Woven Sack for Packaging 10kg, 20kg, 25kg, & 30kg Food Grains-Specifications	Dimension of Fabric	IS 16028
167	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textile High Density Polyethylene (HDPE/Polypropylene (PP) Woven Sack for Packaging 10kg, 20kg, 25kg, & 30kg Food Grains-Specifications	Dimension of Fabric (Length)	IS 16028
168	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textile High Density Polyethylene (HDPE/Polypropylene (PP) Woven Sack for Packaging 10kg, 20kg, 25kg, & 30kg Food Grains-Specifications	Dimension of Woven Sack	IS 16208
169	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textile High Density Polyethylene (HDPE/Polypropylene (PP) Woven Sack for Packaging 10kg, 20kg, 25kg, & 30kg Food Grains-Specifications	Elongation at break of Fabric	IS 1969 (Part-1)
170	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textile High Density Polyethylene (HDPE/Polypropylene (PP) Woven Sack for Packaging 10kg, 20kg, 25kg, & 30kg Food Grains-Specifications	Ends Per dm	IS 16208
171	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textile High Density Polyethylene (HDPE/Polypropylene (PP) Woven Sack for Packaging 10kg, 20kg, 25kg, & 30kg Food Grains-Specifications	Liner Density	IS 16208
172	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textile High Density Polyethylene (HDPE/Polypropylene (PP) Woven Sack for Packaging 10kg, 20kg, 25kg, & 30kg Food Grains-Specifications	Mass of Sack	IS 16208
173	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textile High Density Polyethylene (HDPE/Polypropylene (PP) Woven Sack for Packaging 10kg, 20kg, 25kg, & 30kg Food Grains-Specifications	Minimum Breaking Strength of Bottom Seam	IS 1969 (Part-1)
174	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textile High Density Polyethylene (HDPE/Polypropylene (PP) Woven Sack for Packaging 10kg, 20kg, 25kg, & 30kg Food Grains-Specifications	Picks per dm	IS 16208
175	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textile- High Density Polyethylene (HDPE)/Polypropylene (PP) Woven Sacks for Filling sand Specification	Ash Content	IS 14252
176	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textile- High Density Polyethylene (HDPE)/Polypropylene (PP) Woven Sacks for Filling sand Specification	Average Breaking Strength of Fabrics	IS 1969 (Part-1)
177	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textile- High Density Polyethylene (HDPE)/Polypropylene (PP) Woven Sacks for Filling sand Specification	Dimension of Fabric (Width)	IS 14252
178	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textile- High Density Polyethylene (HDPE)/Polypropylene (PP) Woven Sacks for Filling sand Specification	Dimension of Fabric	IS 14252

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
179	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textile- High Density Polyethylene (HDPE)/Polypropylene (PP) Woven Sacks for Filling sand Specification	Dimension of Fabric (length)	IS 14252
180	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textile- High Density Polyethylene (HDPE)/Polypropylene (PP) Woven Sacks for Filling sand Specification	Dimension of Woven Sack	IS 14252
181	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textile- High Density Polyethylene (HDPE)/Polypropylene (PP) Woven Sacks for Filling sand Specification	Elongation at Break of Fabric	IS 1969 (Part-1)
182	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textile- High Density Polyethylene (HDPE)/Polypropylene (PP) Woven Sacks for Filling sand Specification	Ends Per dm	IS 14252
183	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textile- High Density Polyethylene (HDPE)/Polypropylene (PP) Woven Sacks for Filling sand Specification	Liner Density	IS 14252
184	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textile- High Density Polyethylene (HDPE)/Polypropylene (PP) Woven Sacks for Filling sand Specification	Mass of Sack	IS 14252
185	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textile- High Density Polyethylene (HDPE)/Polypropylene (PP) Woven Sacks for Filling sand Specification	Minimum Breaking Strength of Bottom Seam	IS 1969 (Part-1)
186	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textile- High Density Polyethylene (HDPE)/Polypropylene (PP) Woven Sacks for Filling sand Specification	Pick per dm	IS 14252
187	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textile- High Density Polyethylene (HDPE)/Polypropylene (PP) Woven Sacks for packaging 50kg/25kg food grains	Ash Content	IS 14887
188	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textile- High Density Polyethylene (HDPE)/Polypropylene (PP) Woven Sacks for packaging 50kg/25kg food grains	Average Breaking Strength of Fabrics	IS 1969 (Part-1)
189	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textile- High Density Polyethylene (HDPE)/Polypropylene (PP) Woven Sacks for packaging 50kg/25kg food grains	Dimension of Woven Sack	IS 14887
190	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textile- High Density Polyethylene (HDPE)/Polypropylene (PP) Woven Sacks for packaging 50kg/25kg food grains	Dimension of Woven Sack (Length)	IS 14887
191	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textile- High Density Polyethylene (HDPE)/Polypropylene (PP) Woven Sacks for packaging 50kg/25kg food grains	Elongation at Break of Fabric	IS 1969 (Part-1)
192	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textile- High Density Polyethylene (HDPE)/Polypropylene (PP) Woven Sacks for packaging 50kg/25kg food grains	Ends per dm	IS 14887
193	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textile- High Density Polyethylene (HDPE)/Polypropylene (PP) Woven Sacks for packaging 50kg/25kg food grains	Liner Density	IS 14887
194	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textile- High Density Polyethylene (HDPE)/Polypropylene (PP) Woven Sacks for packaging 50kg/25kg food grains	Mass of Sack	IS 14887
195	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textile- High Density Polyethylene (HDPE)/Polypropylene (PP) Woven Sacks for packaging 50kg/25kg food grains	Minimum Breaking Strength of Bottom Seam	IS 1969 (Part-1)
196	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textile- High Density Polyethylene (HDPE)/Polypropylene (PP) Woven Sacks for packaging 50kg/25kg food grains	Pick per dm	IS 14887

SCOPE OF ACCREDITATION

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
197	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textile-Woven Sacks for Cement Packing	Average Breaking Strength of Fabric (Ravelled strip method) (20 mm X 200 mm)	IS 1969
198	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textile-Woven Sacks for Cement Packing	Dimension (Length)	IS 11652
199	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textile-Woven Sacks for Cement Packing	Dimension (Width)	IS 11652
200	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textile-Woven Sacks for Cement Packing	Elongation at Break of Fabric (Ravelled strip method)	IS 1969
201	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textile-Woven Sacks for Cement Packing	Ends Per dm	IS 11652
202	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textile-Woven Sacks for Cement Packing	Mass of Sack	IS 11652
203	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textile-Woven Sacks for Cement Packing	Picks per dm	IS 11652
204	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Textile-Woven Sacks for Cement Packing	Seam	IS 11652
205	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unplasticized PVC Pipes for Portable Water Supplies	Density	IS 12235 (Part-14)
206	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unplasticized PVC Pipes for Portable Water Supplies	Dimension (Length of Pipe)	IS 12235(Part-1)
207	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unplasticized PVC Pipes for Portable Water Supplies	Dimension (Outside Diameter)	IS 12235 (Part-1)
208	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unplasticized PVC Pipes for Portable Water Supplies	Dimension (Ovality)	IS 12235(Part-1)
209	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unplasticized PVC Pipes for Portable Water Supplies	Dimension (Wall Thickness)	IS 12235(Part-1)
210	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unplasticized PVC Pipes for Portable Water Supplies	Hydrostatic Characteristics (Acceptance & Type Test)	IS 12235 (Part-8)
211	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unplasticized PVC Pipes for Portable Water Supplies	Opacity	IS 12235 (Part-3)
212	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unplasticized PVC Pipes for Portable Water Supplies	Resistence to External Blows at 0 degree C (Free Fall)	IS 4985
213	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unplasticized PVC Pipes for Portable Water Supplies	Reversion	IS 12235 (Part-5)
214	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unplasticized PVC Screen and Casing Pipe for Bore/Tube Well	Dimension of Sealing Ring	IS 12818

SCOPE OF ACCREDITATION

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
215	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unplasticized PVC Screen and Casing Pipe for Bore/Tube Well	Hardness of Sealing Ring	IS 12818
216	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unplasticized PVC Screen and Casing Pipe for Bore/Tube Well	Tensile Strength	IS 12235 (Part-13)
217	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unplasticized PVC Screen and Casing Pipe for Bore/Tube Well	Thread Checking	IS 12818
218	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unplasticized Screen and Casing Pipe for Bore/Tube Well	Colour	IS 12818
219	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unplasticized Screen and Casing Pipe for Bore/Tube Well	Density	IS 12235 (Part-14)
220	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unplasticized Screen and Casing Pipe for Bore/Tube Well	Dimension	IS 12235 (Part-1)
221	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unplasticized Screen and Casing Pipe for Bore/Tube Well	Internal Diameter	IS 12818
222	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unplasticized Screen and Casing Pipe for Bore/Tube Well	Resistance to External Blows at 0 Degree C	IS 12235 (Part-9)
223	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	UPVC Pipe for Soil and Waste Discharge System Inside and Out Side Building Including Ventilation and Rain Water System	Colour	IS 13592
224	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	UPVC Pipe for Soil and Waste Discharge System Inside and Outside Building Including Ventilation and Rain Water System	Axial Shrinkage	IS 13592
225	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	UPVC Pipe for Soil and Waste Discharge System Inside and Outside Building Including Ventilation and Rain Water System	Dimension (Outside diameter at any point)	IS 13592
226	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	UPVC Pipe for Soil and Waste Discharge System Inside and Outside Building Including Ventilation and Rain Water System	Dimension (Wall Thickness)	IS 13592
227	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	UPVC Pipe for Soil and Waste Discharge System Inside and Outside Building Including Ventilation and Rain Water System	Dimension of Grooved Socket	IS 13592
228	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	UPVC Pipe for Soil and Waste Discharge System Inside and Outside Building Including Ventilation and Rain Water System	Dimension of Pipe	IS 13592
229	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	UPVC Pipe for Soil and Waste Discharge System Inside and Outside Building Including Ventilation and Rain Water System	Dimension of Pipe (Mean outer Diameter)	IS 13592
230	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	UPVC Pipe for Soil and Waste Discharge System Inside and Outside Building Including Ventilation and Rain Water System	Effect on Sunlight	IS 13592

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231	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	UPVC Pipe for Soil and Waste Discharge System Inside and Outside Building Including Ventilation and Rain Water System	length of Pipe	IS 13592
232	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	UPVC Pipe for Soil and Waste Discharge System Inside and Outside Building Including Ventilation and Rain Water System	Resistence to External Blow at 0 Degree C	IS 12235 (Part-9)
233	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	UPVC Pipe for Soil and Waste Discharge System Inside and Outside Building Including Ventilation and Rain Water System	Reversion Test	IS 12235 (Part-5)
234	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	UPVC Pipe for Soil and Waste Discharge System Inside and Outside Building Including Ventilation and Rain Water System	Stress Relief Test	IS 12235 (Part-6)
235	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	UPVC Pipe for Soil and Waste Discharge System Inside and Outside Building Including Ventilation and Rain Water System	Tensile Strength	IS 12235 (Part-13)
236	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	UPVC Pipe for Soil and Waste Discharge System Inside and Outside Building Including Ventilation and Rain Water System	Water Tightness of Joint	IS 13592