National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : GUJARAT INDUSTRIAL RESEARCH AND DEVELOPMENT AGENCY, SCIENCE COLLEGE COMPOUND, THE M.S.UNIVERSITY, SAYAJIGUNJ, VADODARA, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9287 **Page No** 1 of 6

Validity 01/03/2021 to 28/02/2023 **Last Amended on** -

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- PAINTS & SURFACE COATING	Paint / Coated Substrate	Abrasion Resistance (Wear cycle per mill)	ASTM D 4060
2	CHEMICAL- PAINTS & SURFACE COATING	Paint / Coated Substrate	Abrasion Resistance (Wear Index)	ASTM D 4060
3	CHEMICAL- PAINTS & SURFACE COATING	Paint / Coated Substrate	Abrasion Resistance (Weight loss)	ASTM D 4060
4	CHEMICAL- PAINTS & SURFACE COATING	Paint / Coated Substrate	Bend test (conical mandrel)	ISO 6860
5	CHEMICAL- PAINTS & SURFACE COATING	Paint / Coated Substrate	Cross cut test	ISO 2409
6	CHEMICAL- PAINTS & SURFACE COATING	Paint / Coated Substrate	Impact resistance	ASTM D 2794
7	CHEMICAL- PAINTS & SURFACE COATING	Paint / Coated Substrate	Pull Off Strength	ASTM D 4541 (METHOD E)
8	CHEMICAL- PAINTS & SURFACE COATING	Paint, Varnish, Binder, polymer dispersion and condensation resin	Density (Pycnometer Method)	IS 101 (PART 1 & SECTION 7)
9	CHEMICAL- PAINTS & SURFACE COATING	Paint, Varnish, Binder, polymer dispersion and condensation resin	Density (Pycnometer Method)	ISO 2811 (PART 1)
10	CHEMICAL- PAINTS & SURFACE COATING	Paint, Varnish, Binder, polymer dispersion and condensation resin	Non-volatile matter Content (by mass)	IS 101 (PART 2 & SECTION 2)
11	CHEMICAL- PAINTS & SURFACE COATING	Paint, Varnish, Binder, polymer dispersion and condensation resin	Non-volatile matter Content (by mass)	ISO 3251
12	CHEMICAL- PAINTS & SURFACE COATING	Paint, Varnish, Binder, polymer dispersion and condensation resin	Viscosity- Ford cup method	IS 101 (PART 1 & SECTION 5)
13	CHEMICAL- PAINTS & SURFACE COATING	Paint, Varnish, Binder, polymer dispersion and condensation resin	Viscosity- Ford cup method	ISO 2431
14	CHEMICAL- PLASTIC & RESINS	Polyethylene Moulding materials and Polyethylene compounds	Carbon Black content	IS 2530
15	CHEMICAL- PLASTIC & RESINS	Polyethylene Moulding materials and Polyethylene compounds	Carbon black dispersion	IS 2530
16	CHEMICAL- PLASTIC & RESINS	Polyethylene Moulding materials and Polyethylene compounds	Melt Flow index	IS 2530
17	CHEMICAL- PLASTIC & RESINS	Polyethylene Moulding materials and Polyethylene compounds	Vicat Softening temperature	IS 2530
18	CHEMICAL- PLASTIC & RESINS	Chlorinated Polyvinyl Chloride (CPVC) Pipes For Potable Hot and Cold Water Distribution Supplies	Specific Gravity/ Density	IS 15778

SCOPE OF ACCREDITATION

Laboratory Name : GUJARAT INDUSTRIAL RESEARCH AND DEVELOPMENT AGENCY, SCIENCE COLLEGE COMPOUND, THE M.S.UNIVERSITY, SAYAJIGUNJ, VADODARA, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9287 **Page No** 2 of 6

Validity 01/03/2021 to 28/02/2023 **Last Amended on** -

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
19	CHEMICAL- PLASTIC & RESINS	Chlorinated Polyvinyl Chloride (CPVC) Pipes For Potable Hot and Cold Water Distribution Supplies	Vicat Softening temperature	IS 15778
20	CHEMICAL- PLASTIC & RESINS	Fusion Epoxy Powder	Density	CSA Z 245.20 (PROCEDURE A)
21	CHEMICAL- PLASTIC & RESINS	Fusion Epoxy Powder	Density	ISO 21809 (PART 1)
22	CHEMICAL- PLASTIC & RESINS	Fusion Epoxy Powder	Gel time	CSA Z 245.20
23	CHEMICAL- PLASTIC & RESINS	Fusion Epoxy Powder	Gel time	ISO 21809 (PART 1)
24	CHEMICAL- PLASTIC & RESINS	Fusion Epoxy Powder	Moisture content- Mass loss	CSA Z 245.20 (PROCEDURE B)
25	CHEMICAL- PLASTIC & RESINS	Fusion Epoxy Powder	Moisture content- Mass loss	ISO 21809 (PART 1)
26	CHEMICAL- PLASTIC & RESINS	High density Polyethylene materials For Moulding and Extrusion	Specific Gravity/ Density	IS 7328
27	CHEMICAL- PLASTIC & RESINS	High Density Polyethylene Pipes For Potable Water Supplies and Plastics Sheet or Molded or Extruded or Compounded Material	Overall Migration	IS 10146
28	CHEMICAL- PLASTIC & RESINS	High Density Polyethylene Pipes for Sewerage	Carbon Black content	IS 14333
29	CHEMICAL- PLASTIC & RESINS	High Density Polyethylene Pipes for Sewerage	Carbon black dispersion	IS 14333
30	CHEMICAL- PLASTIC & RESINS	High Density Polyethylene Pipes for Sewerage	Melt Flow index	IS 14333
31	CHEMICAL- PLASTIC & RESINS	High Density Polyethylene Pipes for Sewerage	Specific Gravity/ Density	IS 14333
32	CHEMICAL- PLASTIC & RESINS	Irrigation Equipment- Polyethylene Pipes For Irrigation Laterals	Carbon Black content	IS 12786
33	CHEMICAL- PLASTIC & RESINS	Irrigation Equipment- Polyethylene Pipes For Irrigation Laterals	Carbon black dispersion	IS 12786
34	CHEMICAL- PLASTIC & RESINS	Irrigation Equipment-Sprinkler Pipes	Carbon Black content	IS 14151 (PART 1)
35	CHEMICAL- PLASTIC & RESINS	Irrigation Equipment-Sprinkler Pipes	Carbon black dispersion	IS 14151(Part-1)
36	CHEMICAL- PLASTIC & RESINS	Irrigation Equipment-Sprinkler Pipes	Melt Flow index	IS 14151(Part-1)

SCOPE OF ACCREDITATION

Laboratory Name : GUJARAT INDUSTRIAL RESEARCH AND DEVELOPMENT AGENCY, SCIENCE COLLEGE COMPOUND, THE M.S.UNIVERSITY, SAYAJIGUNJ, VADODARA, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9287 **Page No** 3 of 6

Validity 01/03/2021 to 28/02/2023 **Last Amended on** -

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	CHEMICAL- PLASTIC & RESINS	Irrigation Equipment-Sprinkler Pipes	Specific Gravity/ Density	IS 14151 (PART 1)
38	CHEMICAL- PLASTIC & RESINS	Plastics - Thermoplastic materials	Melt Flow index	ISO 1133 (PART 1) (PROCEDURE A)
39	CHEMICAL- PLASTIC & RESINS	Plastics - Thermoplastic materials	Vicat Softening temperature	ISO 306
40	CHEMICAL- PLASTIC & RESINS	Polyethylene pipe for Water supply	Carbon Black content	IS 4984
41	CHEMICAL- PLASTIC & RESINS	Polyethylene pipe for Water supply	Carbon black dispersion	IS 4984
42	CHEMICAL- PLASTIC & RESINS	Polyethylene pipe for Water supply	Melt Flow index	IS 4984
43	CHEMICAL- PLASTIC & RESINS	Polyethylene pipe for Water supply	Overall Migration	IS 4984
44	CHEMICAL- PLASTIC & RESINS	Polyethylene pipe for Water supply	Oxidation Induction Time	IS 4984
45	CHEMICAL- PLASTIC & RESINS	Polyethylene pipe for Water supply	Specific Gravity/ Density	IS 4984
46	CHEMICAL- PLASTIC & RESINS	Polyethylene, Polypropylene, Polyolefin resin/Engineering Plastics Sheet or Molded or Extruded or Compounded Material	Melt Flow index	ASTM D 1238
47	CHEMICAL- PLASTIC & RESINS	Polyethylene, Polypropylene, Polyolefin resin/Engineering Plastics Sheet or Molded or Extruded or Compounded Material	Oxidation Induction Time	ASTM D 3895
48	CHEMICAL- PLASTIC & RESINS	Polyethylene, Polypropylene,PVC, UPVC, Polyolefin resin/Engineering Plastics Sheet or Molded or Extruded or Compounded Material	Specific Gravity/ Density	ASTM D 792
49	CHEMICAL- PLASTIC & RESINS	Polyethylene, Polypropylene,PVC, UPVC, Polyolefin resin/Engineering Plastics Sheet or Molded or Extruded or Compounded Material	Specific Gravity/ Density	ISO 1183 (PART 1) (METHOD A)
50	CHEMICAL- PLASTIC & RESINS	Polyethylene, Polypropylene,PVC, UPVC, Polyolefin resin/Engineering Plastics Sheet or Molded or Extruded or Compounded Material	Vicat Softening temperature	ASTM D 1525
51	CHEMICAL- PLASTIC & RESINS	Thermoplastics pipes and fittings	Specific Gravity/ Density	IS 12235 (PART 14)
52	CHEMICAL- PLASTIC & RESINS	Thermoplastics pipes and fittings	Vicat Softening temperature	IS 12235 (PART 2)
53	CHEMICAL- PLASTIC & RESINS	Unplasticized Polyvinyl Chloride (PVC-U) Screen and Casing Pipes for Bore/Tube Wells	Specific Gravity/ Density	IS 12818

SCOPE OF ACCREDITATION

Laboratory Name : GUJARAT INDUSTRIAL RESEARCH AND DEVELOPMENT AGENCY, SCIENCE COLLEGE COMPOUND, THE M.S.UNIVERSITY, SAYAJIGUNJ, VADODARA, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9287 **Page No** 4 of 6

Validity 01/03/2021 to 28/02/2023 **Last Amended on** -

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
54	CHEMICAL- PLASTIC & RESINS	Unplasticized Polyvinyl Chloride (PVC-U) Screen and Casing Pipes for Bore/Tube Wells	Vicat Softening temperature	IS 12818
55	CHEMICAL- PLASTIC & RESINS	Unplasticized Polyvinyl Chloride (UPVC) Injection Molded Fittings for Soil and Waste discharge system for Inside and Outside Buildings Including Ventilation and Rain water system	Sulphated Ash content	IS 14735
56	CHEMICAL- PLASTIC & RESINS	UPVC Pipe For Potable Water Supplies	Specific Gravity/ Density	IS 4985
57	CHEMICAL- PLASTIC & RESINS	UPVC Pipe For Potable Water Supplies	Sulphated Ash content	IS 4985
58	CHEMICAL- PLASTIC & RESINS	UPVC Pipe For Potable Water Supplies	Vicat Softening temperature	IS 4985
59	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Chlorinated Polyvinyl Chloride (CPVC) Pipes For Potable Hot and Cold Water Distribution Supplies	Longitudinal Reversion	IS 15778
60	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Chlorinated Polyvinyl Chloride (CPVC) Pipes For Potable Hot and Cold Water Distribution Supplies	Visual Appearance	IS 15778
61	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	High Density Polyethylene Pipes for Sewerage	Dimension- Length	IS 14333
62	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	High Density Polyethylene Pipes for Sewerage	Dimension- Outside Diameter	IS 14333
63	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	High Density Polyethylene Pipes for Sewerage	Dimension- Wall Thickness	IS 14333
64	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	High Density Polyethylene Pipes for Sewerage	Internal pressure creep rupture test (Hydrostatic resistance test)	IS 14333
65	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	High Density Polyethylene Pipes for Sewerage	Longitudinal Reversion	IS 14333
66	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	High Density Polyethylene Pipes for Sewerage	Visual Appearance	IS 14333
67	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation Equipment- Polyethylene Pipes For Irrigation Laterals	% Elongation at Break	IS 12786
68	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation Equipment- Polyethylene Pipes For Irrigation Laterals	Dimension- Length	IS 12786
69	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation Equipment- Polyethylene Pipes For Irrigation Laterals	Dimension- Outside Diameter	IS 12786
70	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation Equipment- Polyethylene Pipes For Irrigation Laterals	Dimension- Wall Thickness	IS 12786

SCOPE OF ACCREDITATION

Laboratory Name : GUJARAT INDUSTRIAL RESEARCH AND DEVELOPMENT AGENCY, SCIENCE COLLEGE COMPOUND, THE M.S.UNIVERSITY, SAYAJIGUNJ, VADODARA, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9287 **Page No** 5 of 6

Validity 01/03/2021 to 28/02/2023 **Last Amended on** -

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
71	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation Equipment- Polyethylene Pipes For Irrigation Laterals	Internal pressure creep rupture test (Hydrostatic resistance test)	IS 12786
72	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation Equipment- Polyethylene Pipes For Irrigation Laterals	Longitudinal Reversion	IS 12786
73	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation Equipment- Polyethylene Pipes For Irrigation Laterals	Tensile strength	IS 12786
74	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation Equipment- Polyethylene Pipes For Irrigation Laterals	Visual Appearance	IS 12786
75	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation Equipment-Sprinkler Pipes	Internal pressure creep rupture test (Hydrostatic resistance test)	IS 14151 (PART 1)
76	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation Equipment-Sprinkler Pipes	%Elongation at Break	IS 14151 (PART 1)
77	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation Equipment-Sprinkler Pipes	Dimension- Length	IS 14151 (PART 1)
78	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation Equipment-Sprinkler Pipes	Dimension- Outside Diameter	IS 14151 (PART 1)
79	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation Equipment-Sprinkler Pipes	Dimension- Wall Thickness	IS 14151 (PART 1)
80	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation Equipment-Sprinkler Pipes	Longitudinal Reversion	IS 14151 (PART 1)
81	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation Equipment-Sprinkler Pipes	Tensile strength	IS 14151 (PART 1)
82	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Irrigation Equipment-Sprinkler Pipes	Visual Appearance	IS 14151(Part-1)
83	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene pipe for Water supply	%Elongation at Break	IS 4984
84	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene pipe for Water supply	Dimension- Length	IS 4984
85	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene pipe for Water supply	Dimension- Outside Diameter	IS 4984
86	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene pipe for Water supply	Dimension- Wall Thickness	IS 4984
87	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene pipe for Water supply	Internal pressure creep rupture test (Hydrostatic resistance test)	IS 4984
88	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene pipe for Water supply	Longitudinal Reversion	IS 4984

SCOPE OF ACCREDITATION

Laboratory Name : GUJARAT INDUSTRIAL RESEARCH AND DEVELOPMENT AGENCY, SCIENCE COLLEGE COMPOUND, THE M.S.UNIVERSITY, SAYAJIGUNJ, VADODARA, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9287 **Page No** 6 of 6

Validity 01/03/2021 to 28/02/2023 **Last Amended on** -

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
89	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polyethylene pipe for Water supply	Visual Appearance	IS:4984
90	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Rigid and semi-rigid moulding, extrusion, compounding and cast thermoplastic materials	Elongation % at Break	ISO 527 (PART 2)
91	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Rigid and semi-rigid moulding, extrusion, compounding and cast thermoplastic materials	Elongation% at Break	ASTM D 638
92	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Rigid and semi-rigid moulding, extrusion, compounding and cast thermoplastic materials	Indentation Hardness	ISO 868
93	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Rigid and semi-rigid moulding, extrusion, compounding and cast thermoplastic materials	Tensile strength	ASTM D 638
94	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Rigid and semi-rigid moulding, extrusion, compounding and cast thermoplastic materials	Tensile strength	ISO 527 (PART 2)
95	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Thermoplastics pipes and fittings	%Elongation at Break	IS 12235 (PART 13)
96	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Thermoplastics pipes and fittings	Dimension- Length	IS 12235 (PART 1)
97	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Thermoplastics pipes and fittings	Dimension- Outside Diameter	IS 12235 (PART 1)
98	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Thermoplastics pipes and fittings	Dimension- Wall Thickness	IS 12235 (PART 1)
99	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Thermoplastics pipes and fittings	Longitudinal Reversion	IS 12235 (PART 5 / SECTION 1 & 2)
100	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Thermoplastics pipes and fittings	Tensile strength	IS 12235 (PART 13)
101	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unplasticized Non-Pressure Polyvinyl Chloride (PVC-U) Pipes for Use in Underground Drainage and Sewerage systems	Visual Appearance	IS 15328
102	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unplasticized Polyvinyl Chloride (PVC-U) Screen and Casing Pipes for Bore/Tube Wells	Visual Appearance	IS 12818
103	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unplasticized Polyvinyl Chloride (PVC-U) Screen and Casing Pipes for Bore/Tube Wells	Dimension- Length	IS 12818
104	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unplasticized Polyvinyl Chloride (PVC-U) Screen and Casing Pipes for Bore/Tube Wells	Dimension- Outside Diameter	IS 12818
105	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unplasticized Polyvinyl Chloride (PVC-U) Screen and Casing Pipes for Bore/Tube Wells	Dimension- Wall Thickness	IS 12818
106	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Unplasticized Polyvinyl Chloride (PVC-U) Screen and Casing Pipes for Bore/Tube Wells	Tensile strength	IS 12818
107	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	UPVC Pipe For Potable Water Supplies	Visual Appearance	IS 4985