National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : QUALITY CONTROL DEPARTMENT, RELIANCE INDUSTRIES LIMITED, DAHEJ MANUFACTURING DIVISION, P.O- DAHEJ, BHARUCH, GUJARAT, 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- GASES	Ethylene	Acetylene	ASTM D 6159
2	CHEMICAL- GASES	Ethylene	Carbon Dioxide (CO2)	ASTM D 2505
3	CHEMICAL- GASES	Ethylene	Carbon Monoxide (CO)	ASTM D 2504
4	CHEMICAL- GASES	Ethylene	Ethylene	ASTM D 6159
5	CHEMICAL- GASES	Ethylene	Lighter Hydrocarbons (Methane + Ethane)	ASTM D 6159
6	CHEMICAL- GASES	Ethylene	Propane	ASTM D 6159
7	CHEMICAL- GASES	Ethylene	Propylene	ASTM D 6159
8	CHEMICAL- GASES	Natural Gas (Rich Gas)	Carbon Dioxide	ASTM D 1945
9	CHEMICAL- GASES	Natural Gas (Rich Gas)	Ethane	ASTM D 1945
10	CHEMICAL- GASES	Natural Gas (Rich Gas)	i-Butane	ASTM D 1945
11	CHEMICAL- GASES	Natural Gas (Rich Gas)	i-Pentane	ASTM D 1945
12	CHEMICAL- GASES	Natural Gas (Rich Gas)	Methane	ASTM D 1945
13	CHEMICAL- GASES	Natural Gas (Rich Gas)	n-Butane	ASTM D 1945
14	CHEMICAL- GASES	Natural Gas (Rich Gas)	n-Hexane	ASTM D 1945
15	CHEMICAL- GASES	Natural Gas (Rich Gas)	Nitrogen	ASTM D 1945
16	CHEMICAL- GASES	Natural Gas (Rich Gas)	n-Pentane	ASTM D 1945
17	CHEMICAL- GASES	Natural Gas (Rich Gas)	Propane	ASTM D 1945
18	CHEMICAL- GASES	Propylene	C2 Impurities (Ethane + Ethylene)	ASTM D 2712
19	CHEMICAL- GASES	Propylene	Carbon Dioxide (CO2)	ASTM D 2505
20	CHEMICAL- GASES	Propylene	Carbon Monoxide (CO)	ASTM D 2504
21	CHEMICAL- GASES	Propylene	Heavier Hydrocarbons (C4's & Heaviers)	ASTM D 2712
22	CHEMICAL- GASES	Propylene	Methane	ASTM D 2712
23	CHEMICAL- GASES	Propylene	Methyl Acetylene (MA)	ASTM D 2712
24	CHEMICAL- GASES	Propylene	Propadiene (PD)	ASTM D 2712
25	CHEMICAL- GASES	Propylene	Propane	ASTM D 2712
26	CHEMICAL- GASES	Propylene	Propylene	ASTM D 2712
27	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Caustic Soda Lye	Chloride	IS 252, Method - A5

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28	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Caustic Soda Lye	Iron	IS 252, Method - A8
29	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Caustic Soda Lye	Relative Density, 25 deg C	IS 4016
30	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Caustic Soda Lye	Sodium Carbonate as Na2CO3	IS 252, Method A-3
31	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Caustic Soda Lye	Sodium Hydroxide, as NaOH	IS 252, Method A-4
32	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Caustic Soda Lye (CSL)	Appearance	IS 252
33	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Di Ethylene Glycol	Acidity	ASTM D 1613
34	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Di Ethylene Glycol	Colour, pt-Co	ASTM D 1209
35	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Di Ethylene Glycol	Di Ethylene Glycol (DEG)	ASTM E 2409
36	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Di Ethylene Glycol	MEG + TEG	ASTM E 2409
37	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Di Ethylene Glycol	Relative Density, 20/20 deg C	ASTM D 4052
38	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Di Ethylene Glycol	Suspended Matter	ASTM D 2680
39	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Di Ethylene Glycol	Temperature at 5% Recovery	ASTM D 1078
40	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Di Ethylene Glycol	Temperature at 95% Recovery	ASTM D 1078
41	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Di Ethylene Glycol	Water	ASTM E 1064
42	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Di Ethylene Glycol (DEG)	Appearance	ASTM E 2680
43	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Monethylene Glycol	Chloride	ASTM E 2469
44	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Mono Ethylene Glycol	Acidity	ASTM D 1613
45	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Mono Ethylene Glycol	Aldehyde	ASTM E 2313
46	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Mono Ethylene Glycol	Appearance	ASTM E 2680

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47	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Mono Ethylene Glycol	Colour, pt-Co	ASTM D 1209
48	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Mono Ethylene Glycol	Di Ethylene Glycol (DEG)	ASTM E 2409
49	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Mono Ethylene Glycol	Dry Point (DP)	ASTM D 1078
50	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Mono Ethylene Glycol	Initial Boiling Point (IBP)	ASTM D 1078
51	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Mono Ethylene Glycol	Iron	ASTM E 1615
52	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Mono Ethylene Glycol	Mono Ethylene Glycol (MEG)	ASTM E 2409
53	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Mono Ethylene Glycol	Relative Density, 20/20 deg C	ASTM D 4052
54	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Mono Ethylene Glycol	UV Transmittance at 220 nm	ASTM E 2193
55	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Mono Ethylene Glycol	UV Transmittance at 275 nm	ASTM E 2193
56	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Mono Ethylene Glycol	UV Transmittance at 350 nm	ASTM E 2193
57	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Mono Ethylene Glycol	Water	ASTM E 1064
58	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Mono Ethylene Glycol (MEG)	Temperature at 5% Recovery	ASTM D 1078
59	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Monoethylene Glycol	Iron	ASTM E 394
60	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Monoethylene Glycol	Suspended Matter	ASTM E 2680
61	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Monoethylene Glycol	Temperature at 95% Recovery	ASTM D 1078
62	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Pure Terephthalic Acid	4-Carboxy Benzaldehyde (4-CBA)	ASTM D 7884
63	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Pure Terephthalic Acid	4-CBA + p-Toluic Acid	ASTM D 7884
64	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Pure Terephthalic Acid	Acid Number	ASTM D 8031
65	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Pure Terephthalic Acid	Ash Content	ASTM D 482

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66	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Pure Terephthalic Acid	b* Value(CIE)	ASTM D 6290
67	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Pure Terephthalic Acid	Heavy Metals (Co, Mn, Cr, Fe)	ASTM D 8130
68	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Pure Terephthalic Acid	p-Toluic Acid	ASTM D 7884
69	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Pure Terephthalic Acid	Water	ASTM D 8063
70	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Tri Ethylene Glycol	Acidity	ASTM D 1613
71	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Tri Ethylene Glycol	Appearance	ASTM E 2680
72	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Tri Ethylene Glycol	Chloride	ASTM D 2469
73	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Tri Ethylene Glycol	Colour, pt-Co	ASTM D 1209
74	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Tri Ethylene Glycol	Heavy Glycols	ASTM E 2409
75	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Tri Ethylene Glycol	MEG + DEG (Glycol Impurities)	ASTM E 2409
76	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Tri Ethylene Glycol	Relative Density 20/20 deg C	ASTM D 4052
77	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Tri Ethylene Glycol	Suspended Matter	ASTM E 2680
78	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Tri Ethylene Glycol	Temperature at 5% Recovery	ASTM D 1078
79	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Tri Ethylene Glycol	Temperature at 95% Recovery	ASTM D 1078
80	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Tri Ethylene Glycol	Tri Ethylene Glycol (TEG)	ASTM E 2409
81	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Tri Ethylene Glycol	Water	ASTM E 1064
82	CHEMICAL- PLASTIC & RESINS	High Density Polyethylene (HDPE)	Density @ 23 deg C	ASTM D 792, Method B
83	CHEMICAL- PLASTIC & RESINS	High Density Polyethylene (HDPE)	Melt Flow Rate, MFR 190/21.6	ASTM D 1238
84	CHEMICAL- PLASTIC & RESINS	High Density Polyethylene (HDPE)	Melt Flow Rate, MFR 190/5	ASTM D 1238

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85	CHEMICAL- PLASTIC & RESINS	High Density Polyethylene (HDPE)	Oxidative Induction Time (OIT)	ASTM D 3895
86	CHEMICAL- PLASTIC & RESINS	High Density Polyethylene (HDPE)	Volatile Content	IS 4984, Annex.C
87	CHEMICAL- PLASTIC & RESINS	Poly Ethylene Terephthalate (PET)	Dust Content	ASTM D 7486
88	CHEMICAL- PLASTIC & RESINS	Poly Ethylene Terephthalate, (PET)	Acetaldehyde (AA)	ASTM F 2013
89	CHEMICAL- PLASTIC & RESINS	Poly Ethylene Terephthalate, (PET)	Colour a*	ASTM D 6290
90	CHEMICAL- PLASTIC & RESINS	Poly Ethylene Terephthalate, (PET)	Colour b*	ASTM D 6290
91	CHEMICAL- PLASTIC & RESINS	Poly Ethylene Terephthalate, (PET)	Colour L*	ASTM D 6290
92	CHEMICAL- PLASTIC & RESINS	Poly Ethylene Terephthalate, (PET)	Crystallinity	ASTM D 792
93	CHEMICAL- PLASTIC & RESINS	Poly Ethylene Terephthalate, (PET)	Intrinsic Viscosity @ 30 °C (IV)	ASTM D 4603
94	CHEMICAL- PLASTIC & RESINS	Poly Ethylene Terephthalate, (PET)	Moisture	ASTM D 6980
95	CHEMICAL- PLASTIC & RESINS	Poly Vinyl Chloride (PVC)	Apparent Bulk Density (ABD)	ASTM D 1895, Method A
96	CHEMICAL- PLASTIC & RESINS	Poly Vinyl Chloride (PVC)	Average Particle Size (APS)	ASTM D 1921
97	CHEMICAL- PLASTIC & RESINS	Poly Vinyl Chloride (PVC)	Flow Time	ASTM D 1895
98	CHEMICAL- PLASTIC & RESINS	Poly Vinyl Chloride (PVC)	Heat Loss	ASTM D 3030
99	CHEMICAL- PLASTIC & RESINS	Poly Vinyl Chloride (PVC)	Inherent Viscosity (IV)	ASTM D 1243
100	CHEMICAL- PLASTIC & RESINS	Poly Vinyl Chloride (PVC)	Porosity	DJLIC522, Issue:05
101	CHEMICAL- PLASTIC & RESINS	Poly Vinyl Chloride (PVC)	PSD, Pass through 140 mesh	ASTM D 1921
102	CHEMICAL- PLASTIC & RESINS	Poly Vinyl Chloride (PVC)	Residual Vinyl Chloride Monomer (RVCM)	ASTM D 3749
103	CHEMICAL- PLASTIC & RESINS	Poly Vinyl Chloride (PVC)	Retained at 40 mesh	ASTM D 1921

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104	CHEMICAL- PLASTIC & RESINS	Poly Vinyl Chloride (PVC)	Retained at 60 mesh	ASTM D 1921
105	CHEMICAL- POLLUTION & ENVIRONMENT	Treated Effluent Water (TEW)	Chemical Oxygen Demand (COD), Closed Reflux	APHA, 23 Edition, 5220 D
106	CHEMICAL- POLLUTION & ENVIRONMENT	Treated Effluent Water (TEW)	Chemical Oxygen Demand (COD), Open Reflux	APHA, 23 Edition, 5220 B
107	CHEMICAL- POLLUTION & ENVIRONMENT	Treated Effluent Water (TEW)	Chloride (as Cl-)	APHA, 23 Edition, 4500 - Cl ^- D
108	CHEMICAL- POLLUTION & ENVIRONMENT	Treated Effluent Water (TEW)	pH Value	APHA, 23 Edition, 4500-H+B
109	CHEMICAL- POLLUTION & ENVIRONMENT	Treated Effluent Water (TEW)	Sulphate (as SO4^2-)	APHA, 23 Edition, 4500 - SO4^2- E
110	CHEMICAL- POLLUTION & ENVIRONMENT	Treated Effluent Water (TEW)	Sulphide (as S^2-)	APHA, 23 Edition, 4500 - S^2-F
111	CHEMICAL- POLLUTION & ENVIRONMENT	Treated Effluent Water (TEW)	Total Dissolved Solids	APHA, 23 Edition, 2540 C
112	CHEMICAL- POLLUTION & ENVIRONMENT	Treated Effluent Water (TEW)	Total Suspended Solids	APHA, 23 Edition, 2540 D
113	CHEMICAL- SOLID FUELS	Coal	Air Dry Loss (ADL)	ASTM D 3302 / D 3302M
114	CHEMICAL- SOLID FUELS	Coal	Ash Content	ASTM D 3174
115	CHEMICAL- SOLID FUELS	Coal	Fixed Carbon	ASTM D 3172
116	CHEMICAL- SOLID FUELS	Coal	Gross Calorific Value (GCV)	ASTM D5865/D5865M
117	CHEMICAL- SOLID FUELS	Coal	Moisture	ASTM D3173/D3173M
118	CHEMICAL- SOLID FUELS	Coal	Oxygen	ASTM D 3176
119	CHEMICAL- SOLID FUELS	Coal	Proximate - Ash Content	ASTM D 7582
120	CHEMICAL- SOLID FUELS	Coal	Proximate - Moisture	ASTM D 7582
121	CHEMICAL- SOLID FUELS	Coal	Proximate - Volatile Matter	ASTM D 7582
122	CHEMICAL- SOLID FUELS	Coal	Sulphur	ASTM D 4239
123	CHEMICAL- SOLID FUELS	Coal	Total Moisture	ASTM D3302/D3302M
124	CHEMICAL- SOLID FUELS	Coal	Ultimate Analysis - Carbon	ASTM D 5373
125	CHEMICAL- SOLID FUELS	Coal	Ultimate Analysis - Hydrogen	ASTM D 5373
126	CHEMICAL- SOLID FUELS	Coal	Ultimate Analysis - Nitrogen	ASTM D 5373
127	CHEMICAL- SOLID FUELS	Coal	Volatile Matter	ASTM D 3175