National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : INDIAN OIL CORPORATION LIMITED, QUALITY CONTROL LABORATORY, PETROCHEMICAL SECTION, PARADIP REFINERY, INDIAN OIL CORPORATION LIMITED, PARADIP REFINERY, PARADIP, ODISHA, 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- INDUSTRIAL & FINE CHEMICALS	Diethylene Glycol	Acidity (as acetic acid)	ASTM D1613
2	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Diethylene Glycol	Acidity (as acetic acid)	IS 7918 Annex D
3	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Diethylene Glycol	Ash Content	ASTM D1119
4	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Diethylene Glycol	Ash Content	ASTM D482
5	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Diethylene Glycol	Chlorides content (as Cl)	ASTM E2469
6	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Diethylene Glycol	Colour	ASTM D1209
7	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Diethylene Glycol	Colour	ASTM D8005
8	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Diethylene Glycol	Colour	IS 8768
9	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Diethylene Glycol	Density at 20°C	ASTM D4052
10	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Diethylene Glycol	Diethylene Glycol content	ASTM E2409
11	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Diethylene Glycol	Distillation range at 760 mm Hg : Dry point	ASTM D1078
12	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Diethylene Glycol	Distillation range at 760 mm Hg : Dry point	IS 5298
13	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Diethylene Glycol	Distillation range at 760 mm Hg : Initial boiling point	ASTM D1078
14	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Diethylene Glycol	Distillation range at 760 mm Hg : Initial boiling point	IS 5298
15	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Diethylene Glycol	Iron content	ASTM E394
16	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Diethylene Glycol	Iron content	ASTM E1615
17	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Diethylene Glycol	Iron content	IS 7918 Annex E(E3)
18	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Diethylene Glycol	Monoethylene Glycol content	ASTM E2409

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
19	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Diethylene Glycol	Monoethylene Glycol content	IS 7918 Annex F
20	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Diethylene Glycol	Physical Appearance	ASTM E2680
21	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Diethylene Glycol	Relative density at 27/27°C	IS 7918 Annex A
22	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Diethylene Glycol	Specific Gravity at 20/20°C	ASTM D4052
23	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Diethylene Glycol	Sulphate as SO4--	SDAM D336
24	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Diethylene Glycol	Triethylene Glycol content	ASTM E2409
25	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Diethylene Glycol	Triethylene Glycol content	IS 7918 Annex F
26	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Diethylene Glycol	Ultra-Violet transmittance in 1 cm cell at 220 nm	ASTM E2193
27	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Diethylene Glycol	Ultra-Violet transmittance in 1 cm cell at 250 nm	ASTM E2193
28	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Diethylene Glycol	Ultra-Violet transmittance in 1 cm cell at 275 nm	ASTM E2193
29	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Diethylene Glycol	Ultra-Violet transmittance in 1 cm cell at 350 nm	ASTM E2193
30	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Diethylene Glycol	Ultra-Violet transmittance in 1 cm cell at 420 nm	ASTM E2193
31	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Diethylene Glycol	Water content	ASTM E1064
32	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Diethylene Glycol	Water content	ASTM E203
33	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Diethylene Glycol	Water content	IS 2362
34	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Monoethylene Glycol	Acidity (as acetic acid)	ASTM D1613
35	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Monoethylene Glycol	Acidity (as acetic acid)	IS 5295 Annex A (A6)
36	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Monoethylene Glycol	Aldehyde as Acetaldehyde	ASTM E2313
37	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Monoethylene Glycol	Aldehyde as Formaldehyde	ASTM E2313

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
38	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Monoethylene Glycol	Ash Content	ASTM D1119
39	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Monoethylene Glycol	Ash Content	ASTM D482
40	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Monoethylene Glycol	Chlorides content (as Cl)	ASTM E2469
41	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Monoethylene Glycol	Chlorides content (as Cl)	IS 5295 Annex A (A10)
42	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Monoethylene Glycol	Colour	ASTM D1209
43	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Monoethylene Glycol	Colour	ASTM D8005
44	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Monoethylene Glycol	Colour	IS 5295 Annex A(A2)
45	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Monoethylene Glycol	Density at 20°C	ASTM D4052
46	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Monoethylene Glycol	Diethylene Glycol content	ASTM E2409
47	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Monoethylene Glycol	Diethylene Glycol content	IS 5295 Annex A (A11)
48	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Monoethylene Glycol	Distillation at 760 mm Hg : 5 % volume recovery temperature	ASTM D1078
49	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Monoethylene Glycol	Distillation at 760 mm Hg : 5 % volume recovery temperature	IS 5295 Annex A(A4)
50	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Monoethylene Glycol	Distillation at 760 mm Hg : 95 % volume recovery temperature	ASTM D1078
51	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Monoethylene Glycol	Distillation at 760 mm Hg : 95 % volume recovery temperature	IS 5295 Annex A(A4)
52	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Monoethylene Glycol	Distillation at 760 mm Hg : Final Boiling point	ASTM D1078
53	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Monoethylene Glycol	Distillation at 760 mm Hg : Final Boiling point	IS 5295 Annex A(A4)
54	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Monoethylene Glycol	Distillation at 760 mm Hg : Initial boiling point	IS 5295 Annex A(A4)
55	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Monoethylene Glycol	Distillation range at 760 mm Hg : Initial boiling point	ASTM D1078

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
56	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Monoethylene Glycol	Iron content	ASTM E1615
57	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Monoethylene Glycol	Iron content	ASTM E394
58	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Monoethylene Glycol	Iron content	IS 5295 Annex A (A9)
59	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Monoethylene Glycol	Monoethylene Glycol content	ASTM E2409
60	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Monoethylene Glycol	Physical Appearance	ASTM E2680
61	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Monoethylene Glycol	Refractive Index at 20°C	ASTM D1218
62	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Monoethylene Glycol	Relative density at 20/20 °C	IS 5295 Annex A (A3)
63	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Monoethylene Glycol	Specific Gravity at 20/20°C	ASTM D4052
64	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Monoethylene Glycol	Sulphate as SO4--	SDAM D-336
65	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Monoethylene Glycol	Triethylene Glycol content	ASTM E2409
66	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Monoethylene Glycol	Ultra-Violet transmittance in 1 cm cell at 220 nm	ASTM E2193
67	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Monoethylene Glycol	Ultra-Violet transmittance in 1 cm cell at 220 nm	IS 5295 Annex A (A7)
68	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Monoethylene Glycol	Ultra-Violet transmittance in 1 cm cell at 250 nm	ASTM E2193
69	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Monoethylene Glycol	Ultra-Violet transmittance in 1 cm cell at 250 nm	IS 5295 Annex A (A7)
70	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Monoethylene Glycol	Ultra-Violet transmittance in 1 cm cell at 275 nm	ASTM E2193
71	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Monoethylene Glycol	Ultra-Violet transmittance in 1 cm cell at 275 nm	IS 5295 Annex A (A7)
72	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Monoethylene Glycol	Ultra-Violet transmittance in 1 cm cell at 350 nm	ASTM E2193
73	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Monoethylene Glycol	Ultra-Violet transmittance in 1 cm cell at 350 nm	IS 5295 Annex A (A7)
74	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Monoethylene Glycol	Water content	ASTM E1064

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
75	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Monoethylene Glycol	Water content	ASTM E203
76	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Monoethylene Glycol	Water content	IS 2362
77	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Triethylene glycol	Ash Content	ASTM D1119
78	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Triethylene glycol	Ash Content	ASTM D482
79	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Triethylene glycol	Colour	ASTM D1209
80	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Triethylene glycol	Colour	ASTM D8005
81	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Triethylene glycol	Density at 20°C	ASTM D4052
82	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Triethylene glycol	Diethylene Glycol content	ASTM E2409
83	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Triethylene glycol	Distillation at 760 mm Hg : 5 % volume recovery temperature	ASTM D1078
84	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Triethylene glycol	Distillation at 760 mm Hg : 95 % volume recovery temperature	ASTM D1078
85	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Triethylene glycol	Monoethylene Glycol content	ASTM E2409
86	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Triethylene glycol	Physical Appearance	ASTM E2680
87	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Triethylene glycol	Polyethylene Glycol content	ASTM E2409
88	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Triethylene glycol	Specific Gravity at 20/20°C	ASTM D4052
89	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Triethylene glycol	Triethylene Glycol content	ASTM E2409
90	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Triethylene glycol	Water content	ASTM E1064
91	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Triethylene glycol	Water content	ASTM E203
92	CHEMICAL- PLASTIC & RESINS	Polypropylene	Melt Flow Index	ASTM D 1238 Procedure B

SCOPE OF ACCREDITATION

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93	CHEMICAL- PLASTIC & RESINS	Polypropylene	AO-3114	ASTM D6042
94	CHEMICAL- PLASTIC & RESINS	Polypropylene	Ash content	ISO 3451-1 Method A
95	CHEMICAL- PLASTIC & RESINS	Polypropylene	Ash content	ASTM D5630
96	CHEMICAL- PLASTIC & RESINS	Polypropylene	Calcium Stearate	ASTM D6247
97	CHEMICAL- PLASTIC & RESINS	Polypropylene	Chlorine	MA15794
98	CHEMICAL- PLASTIC & RESINS	Polypropylene	Chlorine	XRF 1069
99	CHEMICAL- PLASTIC & RESINS	Polypropylene	DHT4A	ASTM D6247
100	CHEMICAL- PLASTIC & RESINS	Polypropylene	Erucamide	ASTM D6042
101	CHEMICAL- PLASTIC & RESINS	Polypropylene	Filterability Index	MA17338 E
102	CHEMICAL- PLASTIC & RESINS	Polypropylene	Foreign Bodies	MTM 17064E
103	CHEMICAL- PLASTIC & RESINS	Polypropylene	Gel Count 0.5 to 0.7 mm	BTM20046 Procedure A
104	CHEMICAL- PLASTIC & RESINS	Polypropylene	Gel Count 0.7 to 1.5 mm	BTM20046 Procedure A
105	CHEMICAL- PLASTIC & RESINS	Polypropylene	Gel count >0.2 mm	BTM20046 Procedure A
106	CHEMICAL- PLASTIC & RESINS	Polypropylene	Gel count >0.2 mm	MTM 17108E
107	CHEMICAL- PLASTIC & RESINS	Polypropylene	Gel Count 0.5 to 0.7 mm	MTM 17108E
108	CHEMICAL- PLASTIC & RESINS	Polypropylene	Gel Count 0.7 to 1.5 mm	MTM 17108E
109	CHEMICAL- PLASTIC & RESINS	Polypropylene	GMS-90	BTM151008E
110	CHEMICAL- PLASTIC & RESINS	Polypropylene	I-1010	ASTM D6042
111	CHEMICAL- PLASTIC & RESINS	Polypropylene	I-168	ASTM D6247

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112	CHEMICAL- PLASTIC & RESINS	Polypropylene	I-168	ASTM D6042
113	CHEMICAL- PLASTIC & RESINS	Polypropylene	Melt mass flow rate (MFR) @ 230 °C & 2.16 kg	ISO 1133-1 Procedure B
114	CHEMICAL- PLASTIC & RESINS	Polypropylene	Moisture content	ASTM D6869
115	CHEMICAL- PLASTIC & RESINS	Polypropylene	Nucleating agent (NA27)	APHA3120B
116	CHEMICAL- PLASTIC & RESINS	Polypropylene	Nucleating Agent (Zn as HPN-20E)	ASTM D6247
117	CHEMICAL- PLASTIC & RESINS	Polypropylene	Number of corpuscles	MTM 17064E
118	CHEMICAL- PLASTIC & RESINS	Polypropylene	Number of grey & oxidized pellets	MTM 17064E
119	CHEMICAL- PLASTIC & RESINS	Polypropylene	Pellet Anomalies	MTM 17064E
120	CHEMICAL- PLASTIC & RESINS	Polypropylene	Pellet Count	MTM 17351E
121	CHEMICAL- PLASTIC & RESINS	Polypropylene	PEPQ	ASTM D6247
122	CHEMICAL- PLASTIC & RESINS	Polypropylene	Silica	ASTM D6247
123	CHEMICAL- PLASTIC & RESINS	Polypropylene	Xylene Solubility	ITM 20062
124	CHEMICAL- PLASTIC & RESINS	Polypropylene	Xylene Soluble	ISO 16152 Method 1
125	CHEMICAL- PLASTIC & RESINS	Polypropylene	Xylene Soluble	ASTM D5492
126	CHEMICAL- PLASTIC & RESINS	Polypropylene	Yellowness Index	ASTM D6290
127	CHEMICAL- PLASTIC & RESINS	Polypropylene	Yellowness Index	ASTM E313
128	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polypropylene	Flexural Modulus	ASTMD 790-AI
129	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polypropylene	Notched Izod impact strength	ASTM D256