National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : KOLKATA METRO LABORATORY, HINDUSTAN PETROLEUM CORPORATION LIMITED, KOLKATA TERMINAL-1, 1 GRAHAM ROAD, BUDGE BUDGE, KOLKATA, WEST BENGAL, 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- LUBRICANTS	Diesel exhaust fluid (DEF)	Aldehydes	ISO 22241-2 ANNEX F
2	CHEMICAL- LUBRICANTS	Diesel exhaust fluid (DEF)	Alkalinity as NH3	ISO 22241-2 ANNEX D
3	CHEMICAL- LUBRICANTS	Diesel exhaust fluid (DEF)	Aluminium in DEF	ISO 22241-2 ANNEX I
4	CHEMICAL- LUBRICANTS	Diesel exhaust fluid (DEF)	Biuret content	ISO 22241-2 ANNEX E
5	CHEMICAL- LUBRICANTS	Diesel exhaust fluid (DEF)	Calcium in DEF	ISO 22241-2 ANNEX I
6	CHEMICAL- LUBRICANTS	Diesel exhaust fluid (DEF)	Chromium in DEF	ISO 22241-2 ANNEX I
7	CHEMICAL- LUBRICANTS	Diesel exhaust fluid (DEF)	Copper in DEF	ISO 22241-2 ANNEX I
8	CHEMICAL- LUBRICANTS	Diesel exhaust fluid (DEF)	Density at 20 °C	ISO 12185
9	CHEMICAL- LUBRICANTS	Diesel exhaust fluid (DEF)	Density at 20 °C	ISO 3675
10	CHEMICAL- LUBRICANTS	Diesel exhaust fluid (DEF)	Insoluble Matter	ISO 22241-2 ANNEX G
11	CHEMICAL- LUBRICANTS	Diesel exhaust fluid (DEF)	Iron in DEF	ISO 22241-2 ANNEX I
12	CHEMICAL- LUBRICANTS	Diesel exhaust fluid (DEF)	Magnesium in DEF	ISO 22241-2 ANNEX I
13	CHEMICAL- LUBRICANTS	Diesel exhaust fluid (DEF)	Nickel in DEF	ISO 22241-2 ANNEX I
14	CHEMICAL- LUBRICANTS	Diesel exhaust fluid (DEF)	Phosphate in DEF	ISO 22241-2 ANNEX I
15	CHEMICAL- LUBRICANTS	Diesel exhaust fluid (DEF)	Potassium in DEF	ISO 22241-2 ANNEX I
16	CHEMICAL- LUBRICANTS	Diesel exhaust fluid (DEF)	Refractive index at 20 °C	ISO 22241-2 ANNEX C
17	CHEMICAL- LUBRICANTS	Diesel exhaust fluid (DEF)	Sodium in DEF	ISO 22241-2 ANNEX I
18	CHEMICAL- LUBRICANTS	Diesel exhaust fluid (DEF)	Urea content	ISO 22241-2 ANNEX C
19	CHEMICAL- LUBRICANTS	Diesel exhaust fluid (DEF)	Zinc in DEF	ISO 22241-2 ANNEX I
20	CHEMICAL- LUBRICANTS	Grease	Consistency of worked grease at 25 ± 0.5ºC, 100000 strokes	ASTM D217
21	CHEMICAL- LUBRICANTS	Grease	Consistency of worked grease at 25 ± 0.5ºC, 100000 strokes	IS 1448 (PART 60)
22	CHEMICAL- LUBRICANTS	Grease	Consistency of worked grease at 25 ± 0.5ºC, 60 strokes	ASTM D217
23	CHEMICAL- LUBRICANTS	Grease	Consistency of worked grease at 25 ± 0.5ºC, 60 strokes	IS 1448 (PART 60)
24	CHEMICAL- LUBRICANTS	Grease	Consistency of worked grease at 25 ± 0.5ºC, Unworked penetration	ASTM D217
25	CHEMICAL- LUBRICANTS	Grease	Consistency of worked grease at 25 ± 0.5ºC, Unworked penetration	IS 1448 (PART 60)

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26	CHEMICAL- LUBRICANTS	Grease	Copper Corrosion at 100°C for 24 hrs	ASTM D4048
27	CHEMICAL- LUBRICANTS	Grease	Copper Corrosion at 100°C for 24 hrs	IS 1448 (PART 51)
28	CHEMICAL- LUBRICANTS	Grease	Drop Point	ASTM D2265
29	CHEMICAL- LUBRICANTS	Grease	Drop Point	ASTM D566
30	CHEMICAL- LUBRICANTS	Grease	Drop Point	IS 1448 (PART 52)
31	CHEMICAL- LUBRICANTS	Grease	Free Alkalinity (as LiOH)	ASTM D128
32	CHEMICAL- LUBRICANTS	Grease	Free Alkalinity (as LiOH)	IS 1448 (PART 53)
33	CHEMICAL- LUBRICANTS	Grease	Free organic acidity (as oleic acid)	ASTM D128
34	CHEMICAL- LUBRICANTS	Grease	Free organic acidity (as Oleic acid)	IS 1448 (PART 53)
35	CHEMICAL- LUBRICANTS	Grease	Heat Stability at 100°C for 30 hrs	ASTM D6184
36	CHEMICAL- LUBRICANTS	Grease	Heat Stability at 100°C for 30 hrs.	IS 1448 (PART 89)
37	CHEMICAL- LUBRICANTS	Lubricant	Acidity Total	ASTM D664
38	CHEMICAL- LUBRICANTS	Lubricant	Acidity Total	ASTM D974
39	CHEMICAL- LUBRICANTS	Lubricant	Acidity Total	IS 1448 (PART 2)
40	CHEMICAL- LUBRICANTS	Lubricant	Air release value at 50°C	ASTM D3427
41	CHEMICAL- LUBRICANTS	Lubricant	Air release Value at 50°C	IS 1448 (PART 102)
42	CHEMICAL- LUBRICANTS	Lubricant	Aniline point	ASTM D611
43	CHEMICAL- LUBRICANTS	Lubricant	Aniline point	IS 1448 (PART 3)
44	CHEMICAL- LUBRICANTS	Lubricant	Apparent Viscosity at -15 °C, -20 °C, -25 °C and -30 °C	ASTM D5293
45	CHEMICAL- LUBRICANTS	Lubricant	Appearance	WI No. KML/WI-05 (Issue no:02, Issue date:12.07.2017)
46	CHEMICAL- LUBRICANTS	Lubricant	Ash Content	IS 1448 (PART 4/ SECTION 2)
47	CHEMICAL- LUBRICANTS	Lubricant	Calcium Content	KML/WI-66 EDTA Method (Issue no:02, Issue date: 12.07.2017)
48	CHEMICAL- LUBRICANTS	Lubricant	Calcium in Lubricating oils by ICP-OES	ASTM D4951
49	CHEMICAL- LUBRICANTS	Lubricant	COC Flash point	ASTM D92

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50	CHEMICAL- LUBRICANTS	Lubricant	COC Flash point	IS 1448 (PART 69)
51	CHEMICAL- LUBRICANTS	Lubricant	Color	IS 1448 (PART 12)
52	CHEMICAL- LUBRICANTS	Lubricant	Color	WI No. KML/WI-06 (Issue No.02, Issue date: 12.07.2017)
53	CHEMICAL- LUBRICANTS	Lubricant	Color (ASTM)	ASTM D1500
54	CHEMICAL- LUBRICANTS	Lubricant	Cu strip corrosion test at (100 °C/ 121 °C/ 150 °C) for 3 hours	ASTM D130
55	CHEMICAL- LUBRICANTS	Lubricant	Cu strip corrosion test at (100 °C/ 121 °C/ 150 °C) for 3 hours	IS 1448 (PART 15)
56	CHEMICAL- LUBRICANTS	Lubricant	Density at 15°C / 29.5 °C	ASTM D1298
57	CHEMICAL- LUBRICANTS	Lubricant	Density at 15°C / 29.5 °C	ASTM D4052
58	CHEMICAL- LUBRICANTS	Lubricant	Density at 15°C / 29.5 °C	IS 1448 (PART 16)
59	CHEMICAL- LUBRICANTS	Lubricant	Emulsion Characteristic at 54 °C and 82 °C	IS 1448 (PART 91)
60	CHEMICAL- LUBRICANTS	Lubricant	Emulsion Characteristic at 54/82 °C	ASTM D1401
61	CHEMICAL- LUBRICANTS	Lubricant	Foaming Test Tendency & Stability Sequence I	ASTM D892
62	CHEMICAL- LUBRICANTS	Lubricant	Foaming Test Tendency & Stability Sequence I	IS 1448 (PART 67)
63	CHEMICAL- LUBRICANTS	Lubricant	Foaming Test Tendency & Stability Sequence II	ASTM D892
64	CHEMICAL- LUBRICANTS	Lubricant	Foaming Test Tendency & Stability Sequence II	IS 1448 (PART 67)
65	CHEMICAL- LUBRICANTS	Lubricant	Foaming Test Tendency & Stability Sequence III	ASTM D892
66	CHEMICAL- LUBRICANTS	Lubricant	Foaming Test Tendency & Stability Sequence III	IS 1448 (PART 67)
67	CHEMICAL- LUBRICANTS	Lubricant	Inorganic Acidity	IP 182
68	CHEMICAL- LUBRICANTS	Lubricant	Kinematic Viscosity at 100 °C	ASTM D7042
69	CHEMICAL- LUBRICANTS	Lubricant	Kinematic viscosity at 100°C	ASTM D445
70	CHEMICAL- LUBRICANTS	Lubricant	Kinematic viscosity at 100°C	IS 1448 (PART 25)
71	CHEMICAL- LUBRICANTS	Lubricant	Kinematic viscosity at 40°C	ASTM D445
72	CHEMICAL- LUBRICANTS	Lubricant	Kinematic viscosity at 40°C	ASTM D7042
73	CHEMICAL- LUBRICANTS	Lubricant	Kinematic viscosity at 40°C	IS 1448 (PART 25)

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74	CHEMICAL- LUBRICANTS	Lubricant	Phosphorous in Lubricating oils by ICP-OES	ASTM D4951
75	CHEMICAL- LUBRICANTS	Lubricant	Phosphorus	IS 1448 (PART 101)
76	CHEMICAL- LUBRICANTS	Lubricant	PMCC Flash Point	ASTM D93
77	CHEMICAL- LUBRICANTS	Lubricant	PMCC Flash Point	IS 1448 (PART 21)
78	CHEMICAL- LUBRICANTS	Lubricant	Pour point	ASTM D97
79	CHEMICAL- LUBRICANTS	Lubricant	Pour point	IS 1448 (PART 10/SECTION 2)
80	CHEMICAL- LUBRICANTS	Lubricant	Rust Test	ASTM D665
81	CHEMICAL- LUBRICANTS	Lubricant	Rust Test	IS 1448 (PART 96)
82	CHEMICAL- LUBRICANTS	Lubricant	Saponification Value	ASTM D94
83	CHEMICAL- LUBRICANTS	Lubricant	Saponification Value	IS 1448 (PART 55/SECTION 1)
84	CHEMICAL- LUBRICANTS	Lubricant	Sulphated Ash	ASTM D874
85	CHEMICAL- LUBRICANTS	Lubricant	TBN	ASTM D2896
86	CHEMICAL- LUBRICANTS	Lubricant	TBN	IS 1448 (PART 86)
87	CHEMICAL- LUBRICANTS	Lubricant	Viscosity Index	ASTM D2270
88	CHEMICAL- LUBRICANTS	Lubricant	Viscosity Index	IS 1448 (PART 56)
89	CHEMICAL- LUBRICANTS	Lubricant	Water content	ASTM D6304
90	CHEMICAL- LUBRICANTS	Lubricant	Water content	IS 1448 (PART 40)
91	CHEMICAL- LUBRICANTS	Lubricant	Zinc content	KML/WI-66 EDTA Method (Issue no:02, Issue date: 12.07.2017)
92	CHEMICAL- LUBRICANTS	Lubricant	Zinc content in Lubricating oils by ICP-OES	ASTM D4951
93	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuels(HSD)	Color	WI No. KML/WI-06 (Issue no:02, Issue date: 12.07.2017)
94	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuels(HSD)	Pour Point	ASTM D97
95	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuels(HSD)	Pour Point	IS 1448 (PART 10/ SECTION 2)
96	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuels(HSD)/ Biodiesel, Diesel Fuel Blend (B 8 to B 20)	Abel Flash Point	IP 170
97	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuels(HSD)/ Biodiesel, Diesel Fuel Blend (B 8 to B 20)	Abel Flash Point	IS 1448 (PART 20)
98	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuels(HSD)/ Biodiesel, Diesel Fuel Blend (B 8 to B 20)	Appearance	WI No. KML/WI-05 (Issue no:02, Issue date: 12.07.2017)

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99	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuels(HSD)/ Biodiesel, Diesel Fuel Blend (B 8 to B 20)	Ash Content	IS 1448 (PART 4/ SECTION 2)
100	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuels(HSD)/ Biodiesel, Diesel Fuel Blend (B 8 to B 20)	Cetane Index	ASTM D4737
101	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuels(HSD)/ Biodiesel, Diesel Fuel Blend (B 8 to B 20)	Cold Filter Plugging Point (CFPP)	ASTM D6371
102	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuels(HSD)/ Biodiesel, Diesel Fuel Blend (B 8 to B 20)	Cold Filter Plugging Point (CFPP)	IS 1448 (PART 110)
103	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuels(HSD)/ Biodiesel, Diesel Fuel Blend (B 8 to B 20)	Copper Strip Corrosion for 3 hrs at 50°C	ASTM D130
104	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuels(HSD)/ Biodiesel, Diesel Fuel Blend (B 8 to B 20)	Copper Strip Corrosion for 3 hrs at 50°C	IS 1448 (PART 15)
105	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuels(HSD)/ Biodiesel, Diesel Fuel Blend (B 8 to B 20)	Density at 15°C	ASTM D1298
106	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuels(HSD)/ Biodiesel, Diesel Fuel Blend (B 8 to B 20)	Density at 15°C	ASTM D4052
107	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuels(HSD)/ Biodiesel, Diesel Fuel Blend (B 8 to B 20)	Density at 15°C	IS 1448 (Part 16)
108	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuels(HSD)/ Biodiesel, Diesel Fuel Blend (B 8 to B 20)	Distillation, 95 percent volume recovery	ASTM D86
109	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuels(HSD)/ Biodiesel, Diesel Fuel Blend (B 8 to B 20)	Distillation, 95 percent volume recovery	IS 1448 (PART 18)
110	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuels(HSD)/ Biodiesel, Diesel Fuel Blend (B 8 to B 20)	Kinematic Viscosity at 40°C	ASTM D445
111	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuels(HSD)/ Biodiesel, Diesel Fuel Blend (B 8 to B 20)	Kinematic Viscosity at 40°C	IS 1448 (PART 25/ SECTION 1)
112	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuels(HSD)/ Biodiesel, Diesel Fuel Blend (B 8 to B 20)	PMCC Flash Point	ASTM D93
113	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuels(HSD)/ Biodiesel, Diesel Fuel Blend (B 8 to B 20)	PMCC Flash Point	IS 1448 (PART 21)
114	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuels(HSD)/ Biodiesel, Diesel Fuel Blend (B 8 to B 20)	Water Content by KF Titrator	ASTM D6304
115	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuels(HSD)/ Biodiesel, Diesel Fuel Blend (B 8 to B 20)/ Light Diesel Oil	Kinematic Viscosity at 40 °C	ASTM D7042
116	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Color (Saybolt)	ASTM D156
117	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation turbine Fuel	Abel Flash Point	IP 170

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118	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Abel Flash Point	IS 1448 (PART 20)
119	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Acidity Total	IS 1448 (PART 113)
120	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Appearance	WI No. KML/WI-05 (Issue no:02, Issue date: 12.07.2017)
121	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Aromatics Content	ASTM D1319
122	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Aromatics Content	IS 1448 (PART 23)
123	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Color (Saybolt)	IS 1448 (PART 14)
124	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Copper Strip Corrosion for 2 hrs at 100 °C	ASTM D130
125	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Copper Strip Corrosion for 2 hrs at 100°C	IS 1448 (PART 15)
126	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Density at 15°C	ASTM D1298
127	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Density at 15°C	ASTM D4052
128	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Density at 15°C	IS 1448 (PART 16)
129	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Distillation, 10 percent recovery	ASTM D86
130	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Distillation, 10 percent recovery	IS 1448 (PART 18)
131	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Distillation, 50 percent recovery	ASTM D86
132	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Distillation, 50 percent recovery	IS 1448 (PART 18)
133	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Distillation, 90 percent recovery	ASTM D86
134	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Distillation, 90 percent recovery	IS 1448 (PART 18)
135	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Distillation, Final boiling point	ASTM D86
136	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Distillation, Final boiling point	IS 1448 (PART 18)

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137	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Distillation, Initial boiling point	ASTM D86
138	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Distillation, Initial boiling point	IS 1448 (PART 18)
139	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Distillation, Loss % by volume	ASTM D86
140	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Distillation, Loss % by volume	IS 1448 (PART 18)
141	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Distillation, Residue % by volume	ASTM D86
142	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Distillation, Residue % by volume	IS 1448 (PART 18)
143	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Doctor test	IS 1448 (PART 19)
144	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Electrical Conductivity	ASTM D2624
145	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Electrical Conductivity	ISO 6297
146	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Existent Gum	ASTM D381
147	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Existent Gum	IS 1448 (PART 29)
148	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Freezing Point	ASTM D7153
149	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Freezing Point	IS 1448 (PART 11)
150	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Kinematic Viscosity at -20 °C	ASTM D445
151	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Kinematic Viscosity at -20 °C	IS 1448 (PART 25/ SECTION 1)
152	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Millipore Gravimetric Test	IP 216
153	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Naphthalene, % by volume	ASTM D1840
154	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Naphthalene, % by volume	IS 1448 (PART 118)
155	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Silver Strip Corrosion for 4 hrs at 50°C	IS 1571 ANNEX B

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156	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Smoke Point	IS 1448 (PART 31)
157	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Specific Energy	ASTM D3338
158	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Sulphur (Mercaptan)	ASTM D3227
159	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Sulphur (Mercaptan)	IS 1448 (PART 109)
160	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Water Reaction-Interface rating	ASTM D1094
161	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Water Reaction-Interface rating	IS 1448 (PART 42)
162	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel, SKO, HF HSD	Total Sulphur	ASTM D4294
163	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel	Appearance	WI No. KML/WI-05 (Issue no:02, Issue date: 12.07.2017)
164	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel	Cold Filter Plugging Point (CFPP)	ASTM D6371
165	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel	Cold Filter Plugging Point (CFPP)	IS 1448 (PART 110)
166	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel	Color	WI No. KML/WI-06 (Issue no:02, Issue date: 12.07.2017)
167	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel	Copper Strip Corrosion 3 hrs at 50 °C	ASTM D130
168	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel	Copper Strip Corrosion 3 hrs at 50 °C	IS 1448 (PART 15)
169	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel	Density at 15°C	ASTM D1298
170	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel	Density at 15°C	ASTM D4052
171	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel	Density at 15°C	IS 1448 (PART 16)
172	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel	Kinematic Viscosity at 40°C	ASTM D445
173	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel	Kinematic Viscosity at 40°C	IS 1448 (PART 25/ SECTION 1)
174	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel	PMCC Flash Point	ASTM D93

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175	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel	PMCC Flash Point	IS 1448 (PART 21)
176	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel	Water content	IS 1448 (PART 40)
177	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel	Water content by KF Titrator	ASTM D6304
178	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel, Diesel Fuel Blend (B 8 to B 20)	Distillation percent volume recovered at 250 °C	ASTM D86
179	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel, Diesel Fuel Blend (B 8 to B 20)	Distillation percent volume recovered at 250 °C	IS 1448 (PART 18)
180	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel, Diesel Fuel Blend (B 8 to B 20)	Distillation percent volume recovered at 350 °C	ASTM D86
181	CHEMICAL- PETROLEUM AND PRODUCTS	Ethanol Blended Motor Gasoline (EBMG)	Ethanol Content	IS 2796
182	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil	Aluminum content	IP 501
183	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil	Appearance	WI No. KML/WI-05 (Issue no:02, Issue date: 12.07.2017)
184	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil	Ash Content	IS 1448 (PART 4/SECTION 2)
185	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil	Calcium content	IP 501
186	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil	Density at 15°C	ASTM D1298
187	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil	Density at 15°C	ASTM D4052
188	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil	Density at 15°C	IS 1448 (Part 16)
189	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil	Flash Point (PMCC)	ASTM D93
190	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil	Flash Point (PMCC)	IS 1448 (PART 21)
191	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil	Kinematic Viscosity at 50°C	ASTM D445
192	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil	Kinematic Viscosity at 50°C	IS 1448 (PART 25/ SECTION 1)
193	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil	Phosphorous content	IP 501

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194	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil	Pour Point	ASTM D97
195	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil	Pour Point	IS 1448 (PART 10/ SECTION 2)
196	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil	Relative density at 15.6/15.6 °C	IS 1448 (PART 16)
197	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil	Sediment	IS 1448 (PART 30)
198	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil	Silicon content	IP 501
199	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil	Sodium content	IP 501
200	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil	Vanadium content	IP 501
201	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil	Water content	IS 1448 (PART 40)
202	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil	Zinc content	IP 501
203	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil, Light Diesel Oil	Total Sulphur	ASTM D4294
204	CHEMICAL- PETROLEUM AND PRODUCTS	Hexane, Food Grade	Color (Saybolt)	ASTM D156
205	CHEMICAL- PETROLEUM AND PRODUCTS	Hexane, Food Grade	Color (Saybolt)	IS 1448 (PART 14)
206	CHEMICAL- PETROLEUM AND PRODUCTS	Hexane, Food Grade	Appearance	WI No. KML/WI-05 (Issue no:02, Issue date:12.07.2017)
207	CHEMICAL- PETROLEUM AND PRODUCTS	Hexane, Food Grade	Copper strip Corrosion	IS 1448 (PART 15)
208	CHEMICAL- PETROLEUM AND PRODUCTS	Hexane, Food Grade	Copper strip Corrosion for 3 h at 50°C	ASTM D130
209	CHEMICAL- PETROLEUM AND PRODUCTS	Hexane, Food Grade	Density at 20°C	ASTM D1298
210	CHEMICAL- PETROLEUM AND PRODUCTS	Hexane, Food Grade	Density at 20°C	ASTM D4052
211	CHEMICAL- PETROLEUM AND PRODUCTS	Hexane, Food Grade	Density at 20°C	IS 1448 (PART 16)
212	CHEMICAL- PETROLEUM AND PRODUCTS	Hexane, Food Grade	Distillation, Distilled between 64-70°C	ASTM D86

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213	CHEMICAL- PETROLEUM AND PRODUCTS	Hexane, Food Grade	Distillation, Distilled between 64-70°C	IS 1448 (PART 18)
214	CHEMICAL- PETROLEUM AND PRODUCTS	Hexane, Food Grade	Distillation, Initial boiling point	ASTM D86
215	CHEMICAL- PETROLEUM AND PRODUCTS	Hexane, Food Grade	Distillation, Initial boiling point	IS 1448 (PART 18)
216	CHEMICAL- PETROLEUM AND PRODUCTS	Hexane, Food Grade	Doctor Test	IS 1448 (PART 19)
217	CHEMICAL- PETROLEUM AND PRODUCTS	Hexane, Food Grade	Non-volatile residue	IS 3470 Annexure A
218	CHEMICAL- PETROLEUM AND PRODUCTS	Hexane, Food Grade	Reaction of non-volatile residue	IS 3470 Annexure B
219	CHEMICAL- PETROLEUM AND PRODUCTS	HF HSD	Abel Flash Point	IP 170
220	CHEMICAL- PETROLEUM AND PRODUCTS	HF HSD	Abel Flash Point	IS 1448 (PART 20)
221	CHEMICAL- PETROLEUM AND PRODUCTS	HF HSD	Appearance	WI No. KML/WI-05 (Issue no:02, Issue date: 12.07.2017)
222	CHEMICAL- PETROLEUM AND PRODUCTS	HF HSD	Cetane Index	ASTM D4737
223	CHEMICAL- PETROLEUM AND PRODUCTS	HF HSD	Color	WI No. KML/WI-06 (Issue no:02, Issue date: 12.07.2017)
224	CHEMICAL- PETROLEUM AND PRODUCTS	HF HSD	Copper Strip Corrosion for 3 h at 100 °C	IS 1448 (PART 15)
225	CHEMICAL- PETROLEUM AND PRODUCTS	HF HSD	Copper Strip Corrosion for 3 hrs at 100 °C	ASTM D130
226	CHEMICAL- PETROLEUM AND PRODUCTS	HF HSD	Density at 15°C	ASTM D1298
227	CHEMICAL- PETROLEUM AND PRODUCTS	HF HSD	Density at 15°C	ASTM D4052
228	CHEMICAL- PETROLEUM AND PRODUCTS	HF HSD	Density at 15°C	IS 1448 (PART 16)
229	CHEMICAL- PETROLEUM AND PRODUCTS	HF HSD	Distillation percent (v/v) recovered at 350 °C	ASTM D86
230	CHEMICAL- PETROLEUM AND PRODUCTS	HF HSD	Distillation percent (v/v) recovered at 350 °C	IS 1448 (PART 18)
231	CHEMICAL- PETROLEUM AND PRODUCTS	HF HSD	Distillation percent (v/v) recovered at 370 °C	ASTM D86

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232	CHEMICAL- PETROLEUM AND PRODUCTS	HF HSD	Distillation percent (v/v) recovered at 370 °C	IS 1448 (PART 18)
233	CHEMICAL- PETROLEUM AND PRODUCTS	HF HSD	Kinematic Viscosity at 40°C	ASTM D445
234	CHEMICAL- PETROLEUM AND PRODUCTS	HF HSD	PMCC Flash Point	ASTM D93
235	CHEMICAL- PETROLEUM AND PRODUCTS	HF HSD	PMCC Flash Point	IS 1448 (PART 21)
236	CHEMICAL- PETROLEUM AND PRODUCTS	HF HSD	Pour Point	ASTM D97
237	CHEMICAL- PETROLEUM AND PRODUCTS	HF HSD	Pour Point	IS 1448 (PART 10/ SECTION 2)
238	CHEMICAL- PETROLEUM AND PRODUCTS	Light Diesel Oil	Appearance	WI No. KML/WI-05 (Issue no:02, Issue date: 12.07.2017)
239	CHEMICAL- PETROLEUM AND PRODUCTS	Light Diesel Oil	Copper Strip Corrosion for 3 hrs at 100 °C	ASTM D130
240	CHEMICAL- PETROLEUM AND PRODUCTS	Light Diesel Oil	Copper Strip Corrosion for 3 hrs at 100 °C	IS 1448 (PART 15)
241	CHEMICAL- PETROLEUM AND PRODUCTS	Light Diesel Oil	Density at 15 °C	IS 1448 (PART 16)
242	CHEMICAL- PETROLEUM AND PRODUCTS	Light Diesel Oil	Density at 15°C	ASTM D1298
243	CHEMICAL- PETROLEUM AND PRODUCTS	Light Diesel Oil	Density at 15°C	ASTM D4052
244	CHEMICAL- PETROLEUM AND PRODUCTS	Light Diesel Oil	Kinematic Viscosity at 40°C	ASTM D445
245	CHEMICAL- PETROLEUM AND PRODUCTS	Light Diesel Oil	Kinematic Viscosity at 40°C	IS 1448 (PART 25 / SECTION 1)
246	CHEMICAL- PETROLEUM AND PRODUCTS	Light Diesel Oil	PMCC Flash Point	ASTM D93
247	CHEMICAL- PETROLEUM AND PRODUCTS	Light Diesel Oil	PMCC Flash Point	IS 1448 (PART 21)
248	CHEMICAL- PETROLEUM AND PRODUCTS	Light Diesel Oil	Pour Point	ASTM D97
249	CHEMICAL- PETROLEUM AND PRODUCTS	Light Diesel oil	Pour Point	IS 1448 (PART 10/ SECTION 2)
250	CHEMICAL- PETROLEUM AND PRODUCTS	Light Diesel Oil	Water content	IS 1448 (PART 40)

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251	CHEMICAL- PETROLEUM AND PRODUCTS	MG / EBMG	Appearance	WI No. KML/WI-05 (Issue no:02, Issue date: 12.07.2017)
252	CHEMICAL- PETROLEUM AND PRODUCTS	MG / EBMG	Color	WI No. KML/WI-06 (Issue no:02, Issue date: 12.07.2017)
253	CHEMICAL- PETROLEUM AND PRODUCTS	MG / EBMG	Copper Strip Corrosion for 3 hrs at 50°C	ASTM D130
254	CHEMICAL- PETROLEUM AND PRODUCTS	MG / EBMG	Copper Strip Corrosion for 3 hrs at 50°C	IS 1448 (Part 15)
255	CHEMICAL- PETROLEUM AND PRODUCTS	MG / EBMG	Density at 15°C	ASTM D1298
256	CHEMICAL- PETROLEUM AND PRODUCTS	MG / EBMG	Density at 15°C	ASTM D4052
257	CHEMICAL- PETROLEUM AND PRODUCTS	MG / EBMG	Density at 15°C	IS 1448 (PART 16)
258	CHEMICAL- PETROLEUM AND PRODUCTS	MG / EBMG	Distillation Final boiling point	ASTM D86
259	CHEMICAL- PETROLEUM AND PRODUCTS	MG / EBMG	Distillation Final boiling point	IS 1448 (PART 18)
260	CHEMICAL- PETROLEUM AND PRODUCTS	MG / EBMG	Distillation percent evaporated at 100°C	ASTM D86
261	CHEMICAL- PETROLEUM AND PRODUCTS	MG / EBMG	Distillation percent evaporated at 100°C	IS 1448 (PART 18)
262	CHEMICAL- PETROLEUM AND PRODUCTS	MG / EBMG	Distillation percent evaporated at 150 °C	ASTM D86
263	CHEMICAL- PETROLEUM AND PRODUCTS	MG / EBMG	Distillation percent evaporated at 150°C	IS 1448 (Part 18)
264	CHEMICAL- PETROLEUM AND PRODUCTS	MG / EBMG	Distillation percent evaporated at 70°C	ASTM D86
265	CHEMICAL- PETROLEUM AND PRODUCTS	MG / EBMG	Distillation percent evaporated at 70°C	IS 1448 (PART 18)
266	CHEMICAL- PETROLEUM AND PRODUCTS	MG / EBMG	Distillation Residue	ASTM D86
267	CHEMICAL- PETROLEUM AND PRODUCTS	MG / EBMG	Distillation Residue	IS 1448 (PART 18)
268	CHEMICAL- PETROLEUM AND PRODUCTS	MG / EBMG	Gum content (Solvent washed)	ASTM D381
269	CHEMICAL- PETROLEUM AND PRODUCTS	MG / EBMG	Gum content (Solvent washed)	IS 1448 (PART 29)

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270	CHEMICAL- PETROLEUM AND PRODUCTS	MG / EBMG	Research Octane Number(RON)	ASTM D2699
271	CHEMICAL- PETROLEUM AND PRODUCTS	MG / EBMG	Research Octane Number(RON)	IS 1448 (PART 27)
272	CHEMICAL- PETROLEUM AND PRODUCTS	MG / EBMG, Ethanol, SKO, Aviation Turbine Fuel, Automotive Diesel Fuels(HSD)/ Biodiesel, Diesel Fuel Blend (B 8 to B 20)	Total Sulphur	ISO 20846
273	CHEMICAL- PETROLEUM AND PRODUCTS	MG / EBMG, Ethanol, SKO, Aviation Turbine Fuel, Automotive Diesel Fuels(HSD)/ Biodiesel, Diesel Fuel Blend (B 8 to B 20), Biodiesel	Total Sulphur	ASTM D5453
274	CHEMICAL- PETROLEUM AND PRODUCTS	MTO	Abel Flash Point	IP 170
275	CHEMICAL- PETROLEUM AND PRODUCTS	MTO	Abel Flash Point	IS 1448 (PART 20)
276	CHEMICAL- PETROLEUM AND PRODUCTS	MTO	Appearance	WI No. KML/WI-05 (Issue no:02, Issue date: 12.07.2017)
277	CHEMICAL- PETROLEUM AND PRODUCTS	MTO	Color (Saybolt)	ASTM D156
278	CHEMICAL- PETROLEUM AND PRODUCTS	MTO	Color (Saybolt)	IS 1448 (PART 14)
279	CHEMICAL- PETROLEUM AND PRODUCTS	MTO	Copper Strip Corrosion for 3 h at 50°C	IS 1448 (PART 15)
280	CHEMICAL- PETROLEUM AND PRODUCTS	MTO	Copper Strip Corrosion for 3 hrs at 50°C	ASTM D130
281	CHEMICAL- PETROLEUM AND PRODUCTS	MTO	Density at 15°C	ASTM D1298
282	CHEMICAL- PETROLEUM AND PRODUCTS	MTO	Density at 15°C	ASTM D4052
283	CHEMICAL- PETROLEUM AND PRODUCTS	MTO	Density at 15°C	IS 1448 (PART 16)
284	CHEMICAL- PETROLEUM AND PRODUCTS	MTO	Distillation, 50 percent by volume recovered	ASTM D86
285	CHEMICAL- PETROLEUM AND PRODUCTS	MTO	Distillation, 50 percent by volume recovered	IS 1448 (PART 18)
286	CHEMICAL- PETROLEUM AND PRODUCTS	MTO	Distillation, 95 percent by volume recovered	ASTM D86
287	CHEMICAL- PETROLEUM AND PRODUCTS	MTO	Distillation, 95 percent by volume recovered	IS 1448 (PART 18)

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288	CHEMICAL- PETROLEUM AND PRODUCTS	MTO	Distillation, Final boiling point	ASTM D86
289	CHEMICAL- PETROLEUM AND PRODUCTS	MTO	Distillation, Final boiling point	IS 1448 (PART 18)
290	CHEMICAL- PETROLEUM AND PRODUCTS	MTO	Distillation, Initial boiling point	ASTM D86
291	CHEMICAL- PETROLEUM AND PRODUCTS	MTO	Distillation, Initial boiling point	IS 1448 (PART 18)
292	CHEMICAL- PETROLEUM AND PRODUCTS	MTO	Residue on evaporation	IS 1448 (PART 29)
293	CHEMICAL- PETROLEUM AND PRODUCTS	SKO	Abel Flash Point	IP 170
294	CHEMICAL- PETROLEUM AND PRODUCTS	SKO	Abel Flash Point	IS 1448 (PART 20)
295	CHEMICAL- PETROLEUM AND PRODUCTS	SKO	Appearance	WI No. KML/WI-05 (Issue no:02, Issue date: 12.07.2017)
296	CHEMICAL- PETROLEUM AND PRODUCTS	SKO	Color	WI No. KML/WI-06 (Issue no:02, Issue date: 12.07.2017)
297	CHEMICAL- PETROLEUM AND PRODUCTS	SKO	Color (Saybolt)	ASTM D156
298	CHEMICAL- PETROLEUM AND PRODUCTS	SKO	Color (Saybolt)	IS 1448 (PART 14)
299	CHEMICAL- PETROLEUM AND PRODUCTS	SKO	Copper Strip Corrosion for 3 h at 50°C	IS 1448 (PART 15)
300	CHEMICAL- PETROLEUM AND PRODUCTS	SKO	Copper Strip Corrosion for 3 hrs at 50°C	ASTM D130
301	CHEMICAL- PETROLEUM AND PRODUCTS	SKO	Density at 15°C	ASTM D1298
302	CHEMICAL- PETROLEUM AND PRODUCTS	SKO	Density at 15°C	ASTM D4052
303	CHEMICAL- PETROLEUM AND PRODUCTS	SKO	Density at 15°C	IS 1448 (PART 16)
304	CHEMICAL- PETROLEUM AND PRODUCTS	SKO	Distillation Final boiling point	ASTM D86
305	CHEMICAL- PETROLEUM AND PRODUCTS	SKO	Distillation Final boiling point	IS 1448 (PART 18)
306	CHEMICAL- PETROLEUM AND PRODUCTS	SKO	Distillation, Percent recovered below 200°C, percent (v/v)	IS 1448 (PART 18)

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307	CHEMICAL- PETROLEUM AND PRODUCTS	SKO	Distillation, Percent recovered below 200°C, percent (v/v)	ASTM D86
308	CHEMICAL- PETROLEUM AND PRODUCTS	SKO	Smoke Point	IS 1448 (PART 31)