National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : QUALITY CONTROL LABORATORY, GUJARAT REFINERY, INDIAN OIL CORPORATION LIMITED, IOCL REFINERY, VADODARA, 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- PETROLEUM AND PRODUCTS	ATF	Appearance	ASTM D-4176
2	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Appearance	IS 1571
3	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Aromatics	ASTM D 6379
4	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Aromatics	ASTM D-1319
5	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Aromatics	IS-1448 (Part 23):
6	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Auto Colour	ASTM D 6045
7	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Auto Density @15°C	ASTM D 4052
8	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Auto Freezing Point	ASTM D 7153
9	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Auto Smoke Point	ASTM D 1322
10	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	COLOUR	ASTM D156
11	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Copper Strip Corrosion	ASTM D130 / IS 1448(Part 15)
12	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Density	ASTM D-1298, IS 1448 (Part 16)
13	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Distillation, 10%	IS 1448(Part 18) / ASTM D86 /IP 123
14	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Distillation, 50% vol	IS 1448(Part 18) / ASTM D 86 /IP 123
15	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Distillation, 90 vol%	IS 1448(Part 18) / ASTM D 86/IP 123
16	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Distillation, FBP	IS 1448(Part 18):2020/ ASTM D 86-2020/IP 123
17	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Distillation, IBP °C	IS 1448(Part 18) / ASTM D 86 /IP 123
18	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Distillation, LOSS %	IS 1448(Part 18)/ ASTM D 86/IP 123

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19	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Distillation, Residue(%)	IS 1448(Part 18):2020/ ASTM D 86-2020/IP 123
20	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Doctor Test	IS 1448 (Part 19): 2015, D 4952
21	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Electrical Conductivity	ISO 6297:1997 / ASTM D2624
22	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Existent Gum	IS 1448 (Part 29):2016 /ASTM D381-2019/ IP 540
23	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Flash Point	IS 1448 (Part 20) :2019 / IP 170
24	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Freezing Point	IS 1448 (Part 11):2016, D-2386-2019,IP-16
25	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	JFTOT Filter Pressure Differential-mm Hg	IS 1448 (Part 97): 2015 /ASTM D-3241-2020, ISO 6249
26	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	JFTOT, ETR mm2 in nm	ASTM D 3241
27	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	JFTOT, Tube Rating-Visual	ISO 6249:2021 / IS 1448 (Part 97):2015 / ASTM D 3241
28	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Kinematic viscosity at -20°C	IS 1448 (Part 25):2020 , D-445
29	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	KV @ -20 °C	ASTM D 7042
30	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Lubricity	ASTM D 5001
31	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Microseparometer Rating	IS 1448 (Part 142):2021, D-3948
32	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Naphthalene Content	IS 1448 (Part 118)/ ASTM D1840
33	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Particle counts =14µm(c)	IP 564
34	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Particle counts =14µm(c)	IP 565
35	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Particle counts =21µm(c)	IP 564
36	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Particle counts =21µm(c)	IP 565
37	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Particle counts =25µm(c)	IP 564

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38	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Particle counts =25µm(c)	IP 565
39	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Particle counts =30µm(c)	IP 564
40	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Particle counts =30µm(c)	IP 565
41	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Particle counts =4µm(c)	IP 564
42	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Particle counts =4µm(c)	IP 565
43	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Particle counts =6µm(c)	IP 564:
44	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Particle counts =6µm(c)	IP 565
45	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Particulate Contamination	ASTM D-5452, IP-423
46	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Silver Strip Corrosion	IS 1571 Annex B
47	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Smoke Point	IP 598
48	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Smoke point	IS 1448(Part 31):2017 / ISO 3014
49	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Specific energy	IS 1448 : Part 6 : 1984 /D 3338
50	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Sulphur Mercaptan	IS-1448 (Part 109), IP 342/ ASTM D 3227
51	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Total Acidity	IS-1448 (Part-113), ASTM D-3242, IP-354
52	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Total Sulphur	ASTM D4294 / IP 336 / ISO 20847
53	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Water reaction: Interface Rating	IS 1448 (Part 42): 2015, D-1094
54	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Fuels	Freezing Point	ASTM D5972
55	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Fuels	Sulphur	ASTM D5453
56	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Appearance	ASTM D4176

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57	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Colour	IS 1604:2022 & DEF STAN 91-090 Issue 5
58	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Colour, Lovibond- Blue	IP 17
59	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Copper Strip Corrosion	ASTM D130
60	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Copper Strip Corrosion	IS 1448 (Part 15)
61	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Density	IS 1448 (Part 16)
62	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Density	ASTM D1298
63	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Density	ASTM D4052
64	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Density	ISO 12185
65	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Distillation	ASTM D86
66	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Distillation, 10%	ASTM D86
67	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Distillation, 10%	IS 1448 (Part 18)
68	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Distillation, 40% vol	ASTM D86
69	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Distillation, 40% vol	IS 1448 (Part 18)
70	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Distillation, 50% vol	ASTM D86
71	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Distillation, 50% vol	IS 1448 (Part 18)
72	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Distillation, 90 vol%	ASTM D86
73	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Distillation, 90 vol%	IS 1448 (Part 18)
74	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Distillation, FBP	ASTM D86
75	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Distillation, FBP	IS 1448 (Part 18)

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76	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Distillation, LOSS %	ASTM D86
77	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Distillation, LOSS %	IS 1448 (Part 18)
78	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Distillation, Residue(%)	ASTM D86
79	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Distillation, Residue(%)	IS 1448 (Part 18)
80	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Distillation, SUM OF 10% + 50%	ASTM D86
81	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Distillation, SUM OF 10% + 50%	IS 1448 (Part 18)
82	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Distillation,IBP	ASTM D86
83	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Distillation,IBP	IS 1448 (Part 18)
84	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Electrical Conductivity	ASTM D2624
85	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Electrical Conductivity	IP 274
86	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Electrical Conductivity	ISO 6297
87	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Existent Gum	ASTM D381
88	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Existent Gum	IS 1448 (Part 29)
89	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Freezing Point	ASTM D2386
90	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Freezing Point	IP 16
91	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Freezing Point	IS 1448 (Part 11)
92	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Knock Rating : Lean Mixture , Motor method, Octane Number	ASTM D2700
93	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Knock Rating : Lean Mixture , Motor method, Octane Number	IS 1448 (Part 26)
94	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Oxidation Stability, 16 Hrs, Potential Gum	IS 1448 (Part 28) (Method B)

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95	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Oxidation Stability, 16 Hrs, Precipitate	IS 1448 (Part 28) (Method B):
96	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Oxidation Stability, 16 Hrs,Potential Gum	ASTM D873
97	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Oxidation Stability, 16 Hrs,Precipitate,mg/100ml	ASTM D873
98	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Reid vapour Pressure	ASTM D5191
99	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Specific energy	ASTM D3338
100	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Specific energy	IS 1448 (Part 6)
101	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Tetraethyl Lead Content	ASTM D5059
102	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Tetraethyl Lead Content	IS 1448 (Part 82)
103	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Total Sulphur	ASTM D5453
104	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Total Sulphur, mg/kg	ASTM D2622
105	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Water reaction: Interface Rating	ASTM D1094
106	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Water reaction: Interface Rating	IS 1448 (Part 42)
107	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Water reaction: Volume Change	ASTM D1094
108	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Gasoline, AVGas 100LL	Water reaction: Volume Change	IS 1448 (Part 42)
109	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil & Marine Fuel Variants	Acidity Inorganic	ASTM D974
110	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil & Marine Fuel Variants	Carbon Residue	ASTM D4530
111	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil & Marine Fuel Variants	Density @ 15°C	IS 1448 (Part 16)
112	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil & Marine Fuel Variants	Gross Calorific Value	IS 1448 (Part 7)
113	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil & Marine Fuel Variants	Water	IS 1448 (Part 40)

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114	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil & Marine Fuel Variants	Flash Point	IS1448 (Part 21)
115	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil & Marine Fuel Variants	Kinematic Viscosity @ 50°C	IS 1448 (Part 25/Section 1)
116	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil & Marine Fuel Variants	Pour Point	IS 1448 (Part 10/Section 2)
117	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil & Marine Fuel Variants	Used Lubricating Oils (ULO) Content (Calcium)	IP 501
118	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil & Marine Fuel Variants	Used Lubricating Oils (ULO) Content (Phosphorous)	IP 501
119	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil & Marine Fuel Variants	Used Lubricating Oils (ULO) Content (Zinc)	IP 501
120	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil & Marine Fuel Variants	Sediment by Extraction	ASTM D473
121	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil & Marine Fuel Variants	Sediment by Extraction	IS 1448 (Part 30)
122	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil & Marine Fuel Variants	Sediment by Extraction	ISO 3735
123	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil and Marine Fuel variants	Density @ 15°C	ISO 3675
124	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil and Marine Fuel Variants	Sodium	IP 501
125	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil and Marine Fuel Variants	Total Sediments Aged	ISO 10307-2
126	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil and Marine Fuel Variants	Vanadium	IP 501
127	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil and Marine Fuel Variants	Water	ISO 3733
128	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil and Marine Fuel variants	Aluminium	IP 501
129	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil and Marine Fuel variants	Asphaltene Content	ASTM D6560
130	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil and Marine Fuel variants	Calculated Carbon Aromaticity Index (CCAI)	ISO 8217
131	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil and Marine Fuel variants	Density @ 15 °C (Digital)	ASTM D4052
132	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil and Marine Fuel variants	Flash Point	ISO 2719

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133	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil and Marine Fuel variants	Flash Point (PMCC)	ASTM D93
134	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil and Marine Fuel Variants	Pour Point	ASTM D97
135	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil and Marine Fuel Variants	Sulphur	ASTM D4294
136	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil and Marine Fuel Variants	Acid Number	ASTM D664
137	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil and Marine Fuel variants	Acid Number	IS 1448 (Part 2)
138	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil and Marine Fuel variants	Ash Content	ISO 6245
139	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil and Marine Fuel variants	Ash Content	IS 1448 (Part 4/Section 1)
140	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil and Marine Fuel variants	Carbon Residue	ASTM D 4530
141	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil and Marine Fuel variants	Carbon Residue	ISO 10370 (Micro Method)
142	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil and Marine Fuel variants	Density by Hydrometer	ASTM D1298
143	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil and Marine Fuel variants	Gross Calorific Value (GCV)	ASTM D4868
144	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil and Marine Fuel variants	Gross Calorific Value (GCV)	ASTM D4809
145	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil and Marine Fuel variants	Hydrogen Sulphide	IP 570
146	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil and Marine Fuel variants	Kinematic Viscosity @ 50°C	ASTM D445
147	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil and Marine Fuel variants	Kinematic Viscosity @ 50°C	ISO 3104
148	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil and Marine Fuel Variants	Pour Point	ISO 3016
149	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil and Marine Fuel variants	Silicon	IP 501
150	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil and Marine Fuel variants	Used Lubricating Oils (ULO) Calcium >30 and Phosphorus >15 Content Determination	IP 501

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151	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil and Marine Fuel variants	Used Lubricating Oils (ULO) Calcium >30 and Zinc >15 Content Determination	IP 501
152	CHEMICAL- PETROLEUM AND PRODUCTS	NAPHTHA	Appearance	ASTM D-4176
153	CHEMICAL- PETROLEUM AND PRODUCTS	NAPHTHA	AROMATICS	ASTM D 6730
154	CHEMICAL- PETROLEUM AND PRODUCTS	NAPHTHA	BENZENE	ASTM D-6730
155	CHEMICAL- PETROLEUM AND PRODUCTS	NAPHTHA	C: H Ratio	IQCM
156	CHEMICAL- PETROLEUM AND PRODUCTS	NAPHTHA	Caustic Content	IS 4576
157	CHEMICAL- PETROLEUM AND PRODUCTS	NAPHTHA	Chloride	ASTM D-4929
158	CHEMICAL- PETROLEUM AND PRODUCTS	NAPHTHA	Copper Strip Corrosion	ASTM D130-2019, IS 1448(Part 15):
159	CHEMICAL- PETROLEUM AND PRODUCTS	NAPHTHA	Density	ASTM D 4052
160	CHEMICAL- PETROLEUM AND PRODUCTS	NAPHTHA	DENSITY @15°C	ASTM D-1298, IS 1448 (Part-16)
161	CHEMICAL- PETROLEUM AND PRODUCTS	NAPHTHA	Distillation, 10 VOL%	ASTM D 860/IS 1448 (Part 18) /IP 123:
162	CHEMICAL- PETROLEUM AND PRODUCTS	NAPHTHA	Distillation, 5 VOL%	ASTM D 86/IS 1448 (Part 18) /IP 123
163	CHEMICAL- PETROLEUM AND PRODUCTS	NAPHTHA	Distillation, 50 VOL%	ASTM D 86/ IS 1448 (Part 18)/ IP 123:
164	CHEMICAL- PETROLEUM AND PRODUCTS	NAPHTHA	Distillation, 90 VOL%	ASTM D 86/IS 1448 (Part 18)/IP 123
165	CHEMICAL- PETROLEUM AND PRODUCTS	NAPHTHA	Distillation, 95 VOL%	ASTM D 86-2020/IS 1448 (Part 18):2020/IP 123:
166	CHEMICAL- PETROLEUM AND PRODUCTS	NAPHTHA	Distillation, FBP	ASTM D 86 /IS 1448 (Part 18) /IP 123
167	CHEMICAL- PETROLEUM AND PRODUCTS	NAPHTHA	Distillation, IBP	ASTM D-86, IS-1448 (Part-18) ,IP-123
168	CHEMICAL- PETROLEUM AND PRODUCTS	NAPHTHA	Gross Calorific Value	ASTM D-4868 , IS-1448 (Part 7)

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169	CHEMICAL- PETROLEUM AND PRODUCTS	NAPHTHA	ISO Paraffin	ASTM D-6730:
170	CHEMICAL- PETROLEUM AND PRODUCTS	NAPHTHA	Naphthene	ASTM D-6730:
171	CHEMICAL- PETROLEUM AND PRODUCTS	NAPHTHA	Net Calorific Value	IS 1448 (Part-7)
172	CHEMICAL- PETROLEUM AND PRODUCTS	NAPHTHA	Olefins	ASTM D-6730
173	CHEMICAL- PETROLEUM AND PRODUCTS	NAPHTHA	Paraffin	ASTM D-6730
174	CHEMICAL- PETROLEUM AND PRODUCTS	NAPHTHA	Reid vapour Pressure	ASTM D-323, ASTM D 6378, IS 1448 (Part 39)
175	CHEMICAL- PETROLEUM AND PRODUCTS	NAPHTHA	Residue on Evaporation	ASTM D-381, IS 1448 (Part 29)
176	CHEMICAL- PETROLEUM AND PRODUCTS	NAPHTHA	SULPHUR	IP 336-2014, ASTM D-4294
177	CHEMICAL- PETROLEUM AND PRODUCTS	Paving Bitumen and its Variants	Flash Point	IS 1448 (Part 69) (Clevel and Open Cup)
178	CHEMICAL- PETROLEUM AND PRODUCTS	Paving Bitumen and its Variants	Kinematic Viscosity at 135°C	IS 1206 (Part 3)
179	CHEMICAL- PETROLEUM AND PRODUCTS	Paving Bitumen and its variants	Absolute Viscosity at 60°C	IS 1206 (Part 2)
180	CHEMICAL- PETROLEUM AND PRODUCTS	Paving Bitumen and its variants	Penetration at 25°C (100 g, 5 s, 0.1mm)	IS 1203
181	CHEMICAL- PETROLEUM AND PRODUCTS	Paving Bitumen and its variants	Rolling Thin Film Oven Test (RTFOT) Residue - Viscosity Ratio at 60°C	IS 1206 (Part 2)
182	CHEMICAL- PETROLEUM AND PRODUCTS	Paving Bitumen and its variants	Rolling Thin Film Oven Test (RTFOT) Residue-Ductility at 25°C	IS 1208
183	CHEMICAL- PETROLEUM AND PRODUCTS	Paving Bitumen and its variants	Softening Point- Ring & Ball (R&B)	IS 1205
184	CHEMICAL- PETROLEUM AND PRODUCTS	Paving Bitumen and its variants	Solubility in Trichloroethylene	IS 1216
185	CHEMICAL- PETROLEUM AND PRODUCTS	Paving Bitumen and its variants	Specific Gravity at 27 °C	IS 1202