National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : IRUMPANAM QUALITY CONTROL LABORATORY, HINDUSTAN PETROLEUM CORPORATION LIMITED, IRUMPANAM TERMINAL , SEAPORT AIRPORT ROAD, IRUMPANAM, ERNAKULAM, KERALA, 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	Lubricating Oil	Aniline Point	ASTM D611
2	CHEMICAL- LUBRICANTS	Lubricating Oil	Aniline Point	IS 1448 (Part 3)
3	CHEMICAL- LUBRICANTS	Lubricating Oil	Appearance	WI No. IPNM/QCL/WI-01A (Issue Date: 01.07.2019)
4	CHEMICAL- LUBRICANTS	Lubricating Oil	Colour	WI No. IPNM/QCL/WI-01B (Issue Date: 01.07.2019)
5	CHEMICAL- LUBRICANTS	Lubricating Oil	Density at 29.5 °C	ASTM D1298
6	CHEMICAL- LUBRICANTS	Lubricating Oil	Density at 29.5 °C	ASTM D4052
7	CHEMICAL- LUBRICANTS	Lubricating Oil	Density at 29.5°C	IS 1448 (Part 16)
8	CHEMICAL- LUBRICANTS	Lubricating Oil	Flash Point COC	ASTM D92
9	CHEMICAL- LUBRICANTS	Lubricating Oil	Flash Point COC	IS 1448 (Part 69)
10	CHEMICAL- LUBRICANTS	Lubricating Oil	Flash Point PMCC	ASTM D93
11	CHEMICAL- LUBRICANTS	Lubricating Oil	Flash Point PMCC	IS 1448 (Part 21)
12	CHEMICAL- LUBRICANTS	Lubricating Oil	Kinematic Viscosity at 100°C	ASTM D445
13	CHEMICAL- LUBRICANTS	Lubricating Oil	Kinematic Viscosity at 100°C	IS 1448 (Part 25/ Section 1)
14	CHEMICAL- LUBRICANTS	Lubricating Oil	Kinematic Viscosity at 40°C	ASTM D445
15	CHEMICAL- LUBRICANTS	Lubricating Oil	Kinematic Viscosity at 40°C	IS 1448 (Part 25 / Section 1)
16	CHEMICAL- LUBRICANTS	Lubricating Oil	Pour Point	ASTM D97
17	CHEMICAL- LUBRICANTS	Lubricating Oil	Pour Point	IS 1448 (Part 10/Section 2)
18	CHEMICAL- LUBRICANTS	Lubricating Oil	TAN	ASTM D664
19	CHEMICAL- LUBRICANTS	Lubricating Oil	Total Base Number	ASTM D2896
20	CHEMICAL- LUBRICANTS	Lubricating Oil	Viscosity Index	ASTM D2270
21	CHEMICAL- PETROLEUM AND PRODUCTS	FO	Appearance	WI No. IPNM/QCL/WI-01A (Issue Date: 01.07.2019)
22	CHEMICAL- PETROLEUM AND PRODUCTS	FO	Ash Content	IS 1448 P: 4
23	CHEMICAL- PETROLEUM AND PRODUCTS	FO	Density	ASTM D 1298
24	CHEMICAL- PETROLEUM AND PRODUCTS	FO	Density	IS 1448 (Part 16)
25	CHEMICAL- PETROLEUM AND PRODUCTS	FO	Flash Point PMCC	ASTM D93

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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
26	CHEMICAL- PETROLEUM AND PRODUCTS	FO	Flash Point PMCC	IS 1448(Part 21)
27	CHEMICAL- PETROLEUM AND PRODUCTS	FO	Kinematic Viscosity at 50 °C	ASTM D445
28	CHEMICAL- PETROLEUM AND PRODUCTS	FO	Kinematic Viscosity at 50 °C	IS 1448 (Part 25/ Sec 1)
29	CHEMICAL- PETROLEUM AND PRODUCTS	FO	Pour Point	ASTM D 97
30	CHEMICAL- PETROLEUM AND PRODUCTS	FO	Pour Point	IS 1448(Part 10 / Sec 2)
31	CHEMICAL- PETROLEUM AND PRODUCTS	FO	Rams Bottom Carbon Residue	ASTM D524
32	CHEMICAL- PETROLEUM AND PRODUCTS	FO	Rams Bottom Carbon Residue	IS 1448 (Part 8)
33	CHEMICAL- PETROLEUM AND PRODUCTS	FO	Sediment By Extraction	ASTM D473
34	CHEMICAL- PETROLEUM AND PRODUCTS	FO	Sediment By Extraction	IS 1448 (Part 30)
35	CHEMICAL- PETROLEUM AND PRODUCTS	FO	Sulfur Total	ASTM D4294
36	CHEMICAL- PETROLEUM AND PRODUCTS	FO	TAN	ASTM D664
37	CHEMICAL- PETROLEUM AND PRODUCTS	FO	Water Content	ASTM D95
38	CHEMICAL- PETROLEUM AND PRODUCTS	FO	Water Content	IS 1448 (Part 40)
39	CHEMICAL- PETROLEUM AND PRODUCTS	GASOHOL-EBMS	Appearance	WI No.IPNM/QCL/WI-01A (Issue Date:01/07/2019)
40	CHEMICAL- PETROLEUM AND PRODUCTS	GASOHOL-EBMS	Colour	WI No.IPNM/QCL/WI-01 B (Issue Date: 01/07/2019)
41	CHEMICAL- PETROLEUM AND PRODUCTS	GASOHOL-EBMS	Copper Strip Corrosion Test	ASTM D130
42	CHEMICAL- PETROLEUM AND PRODUCTS	GASOHOL-EBMS	Copper Strip Corrosion Test	IS 1448 (Part 15)
43	CHEMICAL- PETROLEUM AND PRODUCTS	GASOHOL-EBMS	Copper Strip Corrosion Test	ISO 2160
44	CHEMICAL- PETROLEUM AND PRODUCTS	GASOHOL-EBMS	Density	ASTM D1298

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45	CHEMICAL- PETROLEUM AND PRODUCTS	GASOHOL-EBMS	Density	ASTM D4052
46	CHEMICAL- PETROLEUM AND PRODUCTS	GASOHOL-EBMS	Density	IS 1448 (Part 16)
47	CHEMICAL- PETROLEUM AND PRODUCTS	GASOHOL-EBMS	Distillation % Evaporated at 100°C	ASTM D86
48	CHEMICAL- PETROLEUM AND PRODUCTS	GASOHOL-EBMS	Distillation % Evaporated at 100°C	IS 1448 (Part 18)
49	CHEMICAL- PETROLEUM AND PRODUCTS	GASOHOL-EBMS	Distillation % Evaporated at 100°C	ISO 3405
50	CHEMICAL- PETROLEUM AND PRODUCTS	GASOHOL-EBMS	Distillation % Evaporated at 150°C	ASTM D86
51	CHEMICAL- PETROLEUM AND PRODUCTS	GASOHOL-EBMS	Distillation % Evaporated at 150°C	IS 1448 (Part 18)
52	CHEMICAL- PETROLEUM AND PRODUCTS	GASOHOL-EBMS	Distillation % Evaporated at 150°C	ISO 3405
53	CHEMICAL- PETROLEUM AND PRODUCTS	GASOHOL-EBMS	Distillation % Evaporated at 70°C	ASTM D86
54	CHEMICAL- PETROLEUM AND PRODUCTS	GASOHOL-EBMS	Distillation % Evaporated at 70°C	IS 1448 (Part 18)
55	CHEMICAL- PETROLEUM AND PRODUCTS	GASOHOL-EBMS	Distillation % Evaporated at 70°C	ISO 3405
56	CHEMICAL- PETROLEUM AND PRODUCTS	GASOHOL-EBMS	Distillation FBP °C	ISO 3405
57	CHEMICAL- PETROLEUM AND PRODUCTS	GASOHOL-EBMS	Distillation FBP °C	ASTM D86
58	CHEMICAL- PETROLEUM AND PRODUCTS	GASOHOL-EBMS	Distillation FBP °C	IS 1448 (Part 18)
59	CHEMICAL- PETROLEUM AND PRODUCTS	GASOHOL-EBMS	Distillation Residue	ASTM D86
60	CHEMICAL- PETROLEUM AND PRODUCTS	GASOHOL-EBMS	Distillation Residue	IS 1448 (Part 18)
61	CHEMICAL- PETROLEUM AND PRODUCTS	GASOHOL-EBMS	Distillation Residue	ISO 3405
62	CHEMICAL- PETROLEUM AND PRODUCTS	GASOHOL-EBMS	Ethanol Content	IS 2796/17586 (ANNEX C)
63	CHEMICAL- PETROLEUM AND PRODUCTS	GASOHOL-EBMS	Existent Gum (Solvent Washed)	ASTM D381

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64	CHEMICAL- PETROLEUM AND PRODUCTS	GASOHOL-EBMS	Existent Gum (Solvent Washed)	IS 1448 (Part 29)
65	CHEMICAL- PETROLEUM AND PRODUCTS	GASOHOL-EBMS	Research Octane Number	ASTM D2699
66	CHEMICAL- PETROLEUM AND PRODUCTS	GASOHOL-EBMS	Research Octane Number	IS 1448 (Part 27)
67	CHEMICAL- PETROLEUM AND PRODUCTS	GASOHOL-EBMS	Research Octane Number	ISO 5164
68	CHEMICAL- PETROLEUM AND PRODUCTS	GASOHOL-EBMS	Sulphur Total	ISO 13032
69	CHEMICAL- PETROLEUM AND PRODUCTS	GASOHOL-EBMS	Sulphur Total	ISO 20846
70	CHEMICAL- PETROLEUM AND PRODUCTS	Heating Oil (LDO)	Appearance	WI No. IPNM/QCL/WI-01A (Issue Date:01/07/2019)
71	CHEMICAL- PETROLEUM AND PRODUCTS	Heating Oil (LDO)	Density	ASTM D1298
72	CHEMICAL- PETROLEUM AND PRODUCTS	Heating Oil (LDO)	Density	IS 1448 (Part 16)
73	CHEMICAL- PETROLEUM AND PRODUCTS	Heating Oil (LDO)	Kinematic Viscosity at 40 °C	IS 1448 (Part 25/Sec 1)
74	CHEMICAL- PETROLEUM AND PRODUCTS	Heating Oil (LDO)	Kinematic Viscosity at 40°C	ASTM D 445
75	CHEMICAL- PETROLEUM AND PRODUCTS	Heating Oil (LDO)	PMCC Flash Point	ASTM D 93
76	CHEMICAL- PETROLEUM AND PRODUCTS	Heating Oil (LDO)	PMCC Flash Point	IS 1448(Part 21)
77	CHEMICAL- PETROLEUM AND PRODUCTS	Heating Oil (LDO)	Pour Point	ASTM D 97
78	CHEMICAL- PETROLEUM AND PRODUCTS	Heating Oil (LDO)	Pour Point	IS 1448(Part 10/Sec 2)
79	CHEMICAL- PETROLEUM AND PRODUCTS	Heating Oil (LDO)	Total Sulphur	ASTM D4294
80	CHEMICAL- PETROLEUM AND PRODUCTS	Heating Oil (LDO)	Water Content	IS 1448 (Part 40)
81	CHEMICAL- PETROLEUM AND PRODUCTS	Heating Oil (LDO)	Water Content	ISO 3733
82	CHEMICAL- PETROLEUM AND PRODUCTS	HFHSD	Appearance	WI No. IPNM/QCL/WI-01A (Issue Date:01/07/2019)

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83	CHEMICAL- PETROLEUM AND PRODUCTS	HFHSD	Ash Content	IS 1448 (Part 4/ Section 1)
84	CHEMICAL- PETROLEUM AND PRODUCTS	HFHSD	Ash Content	ISO 6245
85	CHEMICAL- PETROLEUM AND PRODUCTS	HFHSD	Carbon Residue -Micro method	ISO 10370
86	CHEMICAL- PETROLEUM AND PRODUCTS	HFHSD	Cetane Index	ASTM D 4737
87	CHEMICAL- PETROLEUM AND PRODUCTS	HFHSD	Colour	ASTM D6045
88	CHEMICAL- PETROLEUM AND PRODUCTS	HFHSD	Colour	WI No. IPNM/QCL/WI-01B Date of Issue 01.07.2019
89	CHEMICAL- PETROLEUM AND PRODUCTS	HFHSD	Copper Strip Corrosion Test	ASTM D 130
90	CHEMICAL- PETROLEUM AND PRODUCTS	HFHSD	Copper Strip Corrosion Test	IS 1448(Part 15)
91	CHEMICAL- PETROLEUM AND PRODUCTS	HFHSD	Copper Strip Corrosion Test	ISO 2160
92	CHEMICAL- PETROLEUM AND PRODUCTS	HFHSD	Density	ASTM D 1298
93	CHEMICAL- PETROLEUM AND PRODUCTS	HFHSD	Density	ASTM D 4052
94	CHEMICAL- PETROLEUM AND PRODUCTS	HFHSD	Density	IS 1448 (Part 16)
95	CHEMICAL- PETROLEUM AND PRODUCTS	HFHSD	Density	ISO 3675
96	CHEMICAL- PETROLEUM AND PRODUCTS	HFHSD	Distillation Recovery Vol%: at 350°c	ASTM D 86
97	CHEMICAL- PETROLEUM AND PRODUCTS	HFHSD	Distillation Recovery Vol%: at 350°c	IS 1448(Part :18):
98	CHEMICAL- PETROLEUM AND PRODUCTS	HFHSD	Distillation Recovery Vol%: at 370°c	ASTM D 86
99	CHEMICAL- PETROLEUM AND PRODUCTS	HFHSD	Distillation Recovery Vol%: at 370°c	IS 1448(Part :18)
100	CHEMICAL- PETROLEUM AND PRODUCTS	HFHSD	Flash Point PMCC	ISO 2719
101	CHEMICAL- PETROLEUM AND PRODUCTS	HFHSD	Kinematic Viscosity at 40 °C	IS 1448 (Part 25/ Sec 1)

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102	CHEMICAL- PETROLEUM AND PRODUCTS	HFHSD	Kinematic Viscosity at 40 °C	ISO 3104
103	CHEMICAL- PETROLEUM AND PRODUCTS	HFHSD	Kinematic Viscosity at 40°C	ASTM D 445
104	CHEMICAL- PETROLEUM AND PRODUCTS	HFHSD	PMCC Flash Point	ASTM D 93
105	CHEMICAL- PETROLEUM AND PRODUCTS	HFHSD	PMCC Flash Point	IS 1448 (Part 21)
106	CHEMICAL- PETROLEUM AND PRODUCTS	HFHSD	Pour Point	ASTM D 97
107	CHEMICAL- PETROLEUM AND PRODUCTS	HFHSD	Pour Point	IS 1448 (Part 10/Sec 2)
108	CHEMICAL- PETROLEUM AND PRODUCTS	HFHSD	Pour Point	ISO 3016
109	CHEMICAL- PETROLEUM AND PRODUCTS	HFHSD	Sulphur Total	ISO 20846
110	CHEMICAL- PETROLEUM AND PRODUCTS	HFHSD	Sulphur Total	ISO 8754
111	CHEMICAL- PETROLEUM AND PRODUCTS	HFHSD	TAN	ASTM D 664
112	CHEMICAL- PETROLEUM AND PRODUCTS	HFHSD	Total Sulphur	ASTM D 4294
113	CHEMICAL- PETROLEUM AND PRODUCTS	HFHSD	Water content by KF Titrator	ASTM D 6304
114	CHEMICAL- PETROLEUM AND PRODUCTS	HSD	Appearance	Qualitative :WI No. IPNM/QCL/WI-01A. Issue:01/07/2019
115	CHEMICAL- PETROLEUM AND PRODUCTS	HSD	Cetane Index	ASTM D 4737
116	CHEMICAL- PETROLEUM AND PRODUCTS	HSD	Colour	WI No. IPNM/QCL/WI-01B, Date of Issue 01.07.2019
117	CHEMICAL- PETROLEUM AND PRODUCTS	HSD	Copper Strip Corrosion Test	ASTM D 130
118	CHEMICAL- PETROLEUM AND PRODUCTS	HSD	Copper Strip Corrosion Test	IS 1448(Part 15)
119	CHEMICAL- PETROLEUM AND PRODUCTS	HSD	Copper Strip Corrosion Test	ISO 2160

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120	CHEMICAL- PETROLEUM AND PRODUCTS	HSD	Density	ASTM D 1298
121	CHEMICAL- PETROLEUM AND PRODUCTS	HSD	Density	ASTM D 4052
122	CHEMICAL- PETROLEUM AND PRODUCTS	HSD	Density	IS 1448 (Part 16)
123	CHEMICAL- PETROLEUM AND PRODUCTS	HSD	Distillation 95 % V/V Recovery at °C	ASTM D 86
124	CHEMICAL- PETROLEUM AND PRODUCTS	HSD	Distillation 95 % V/V Recovery at °C	IS 1448 (Part 18)
125	CHEMICAL- PETROLEUM AND PRODUCTS	HSD	Distillation 95 % V/V Recovery at °C	ISO 3405
126	CHEMICAL- PETROLEUM AND PRODUCTS	HSD	Flash Point Abel	IP 170
127	CHEMICAL- PETROLEUM AND PRODUCTS	HSD	Flash Point Abel	IS 1448 (Part 20)
128	CHEMICAL- PETROLEUM AND PRODUCTS	HSD	Kinematic Viscosity at 40 °C	IS 1448 (Part 25/Sec 1)
129	CHEMICAL- PETROLEUM AND PRODUCTS	HSD	Kinematic Viscosity at 40°C	ASTM D 445
130	CHEMICAL- PETROLEUM AND PRODUCTS	HSD	PMCC Flash Point	ASTM D 93
131	CHEMICAL- PETROLEUM AND PRODUCTS	HSD	PMCC Flash Point	IS:1448(Part 21)
132	CHEMICAL- PETROLEUM AND PRODUCTS	HSD	Pour Point	ASTM D 97
133	CHEMICAL- PETROLEUM AND PRODUCTS	HSD	Pour Point	IS 1448 Part10 /SEC2
134	CHEMICAL- PETROLEUM AND PRODUCTS	HSD	Sulfur Total	ASTM D 5453
135	CHEMICAL- PETROLEUM AND PRODUCTS	HSD	Sulfur Total	ISO 13032
136	CHEMICAL- PETROLEUM AND PRODUCTS	HSD	Sulfur Total	ISO 20846
137	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Appearance	WI No. IPNM/QCL/WI-01A. Issue:01/07/2019
138	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Colour	WI No. IPNM/QCL/WI-1 B Issue:01/07/2019

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139	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Copper Strip Corrosion Test	ASTM D 130
140	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Copper Strip Corrosion Test	IS 1448(Part 15)
141	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Copper Strip Corrosion Test	ISO 2160
142	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Density	ASTM D1298
143	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Density	ASTM D4052
144	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Density	IS 1448(Part 16)
145	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Distillation Residue	ASTM D 86
146	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Distillation FBP °C	ISO 3405
147	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Distillation Residue	ISO 3405
148	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Distillation FBP °C	ASTM D 86
149	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Distillation % Evaporated at 100°C	ASTM D 86
150	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Distillation % Evaporated at 100°C	IS 1448 (Part18)
151	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Distillation % Evaporated at 100°C	ISO 3405
152	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Distillation % Evaporated at 150°C	ASTM D 86
153	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Distillation % Evaporated at 150°C	IS 1448 P:18
154	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Distillation % Evaporated at 150°C	ISO 3405
155	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Distillation % Evaporated at 70°C	ASTM D 86
156	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Distillation % Evaporated at 70°C	ISO 3405
157	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Distillation % Evaporated at 70°C	IS 1448(Part :18)

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158	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Distillation FBP °C	IS 1448 (Part 18)
159	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Distillation Residue	IS 1448 (Part 18)
160	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Existent Gum (solvent washed)	ASTM D 381
161	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Existent Gum(solvent washed)	IS 1448 (Part 29)
162	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Research Octane No.	ASTM D 2699
163	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Research Octane No.	IS 1448 (Part 27)
164	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Research Octane No.	ISO 5164
165	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Sulfur Total	ASTM D 5453
166	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Sulfur Total	ISO 13032
167	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Sulfur Total	ISO 20846
168	CHEMICAL- PETROLEUM AND PRODUCTS	SKO	Appearance	Qualitative :WI No. IPNM/QCL/WI-01A. Issue:01/07/2019
169	CHEMICAL- PETROLEUM AND PRODUCTS	SKO	Colour	Qualitative :WI No. IPNM/QCL/WI-01B. Issue:01/07/2019
170	CHEMICAL- PETROLEUM AND PRODUCTS	SKO	Copper Strip Corrosion Test	ASTM D 130
171	CHEMICAL- PETROLEUM AND PRODUCTS	SKO	Copper Strip Corrosion Test	IS 1448 (Part 15)
172	CHEMICAL- PETROLEUM AND PRODUCTS	SKO	Copper Strip Corrosion Test	ISO 2160
173	CHEMICAL- PETROLEUM AND PRODUCTS	SKO	Density	ASTM D 1298
174	CHEMICAL- PETROLEUM AND PRODUCTS	SKO	Density	ASTM D 4052
175	CHEMICAL- PETROLEUM AND PRODUCTS	SKO	Density	IS 1448 (Part 16)

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176	CHEMICAL- PETROLEUM AND PRODUCTS	SKO	Distillation Recovery Vol %: at 200 °C	ASTM D 86
177	CHEMICAL- PETROLEUM AND PRODUCTS	SKO	Distillation FBP °C	ASTM D 86
178	CHEMICAL- PETROLEUM AND PRODUCTS	SKO	Distillation FBP °C	IS 1448 (Part 18)
179	CHEMICAL- PETROLEUM AND PRODUCTS	SKO	Distillation FBP °C	ISO 3405
180	CHEMICAL- PETROLEUM AND PRODUCTS	SKO	Distillation Recovery Vol %: at 200 °C	ISO 3405
181	CHEMICAL- PETROLEUM AND PRODUCTS	SKO	Distillation Recovery Vol %: at 200 °C	IS 1448 (Part 18)
182	CHEMICAL- PETROLEUM AND PRODUCTS	SKO	Flash Point Abel	IP 170
183	CHEMICAL- PETROLEUM AND PRODUCTS	SKO	Flash Point Abel	IS 1448 (Part 20)
184	CHEMICAL- PETROLEUM AND PRODUCTS	SKO	Saybolt colour	ASTM D6045
185	CHEMICAL- PETROLEUM AND PRODUCTS	SKO	Smoke Point	ASTM D 1322
186	CHEMICAL- PETROLEUM AND PRODUCTS	SKO	Smoke Point	IS 1448 (Part 31)
187	CHEMICAL- PETROLEUM AND PRODUCTS	SKO	Sulfur Total	ASTM D 4294
188	CHEMICAL- PETROLEUM AND PRODUCTS	VLSFO	Aluminum content	IP 501
189	CHEMICAL- PETROLEUM AND PRODUCTS	VLSFO	Appearance	Qualitative :WI No. IPNM/QCL/WI-01A. Issue:01/07/2019
190	CHEMICAL- PETROLEUM AND PRODUCTS	VLSFO	Ash Content	IS 1448(Part 4/Sec 1))
191	CHEMICAL- PETROLEUM AND PRODUCTS	VLSFO	Ash Content	ISO 6245
192	CHEMICAL- PETROLEUM AND PRODUCTS	VLSFO	Calcium	IP 501
193	CHEMICAL- PETROLEUM AND PRODUCTS	VLSFO	Calculated Carbon Aromaticity Index	ISO 8217 ANNEX F

SCOPE OF ACCREDITATION

Laboratory Name : IRUMPANAM QUALITY CONTROL LABORATORY, HINDUSTAN PETROLEUM CORPORATION LIMITED, IRUMPANAM TERMINAL , SEAPORT AIRPORT ROAD, IRUMPANAM, ERNAKULAM, KERALA, 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
194	CHEMICAL- PETROLEUM AND PRODUCTS	VLSFO	Carbon Residue -Micro method	ISO 10370
195	CHEMICAL- PETROLEUM AND PRODUCTS	VLSFO	Density	ASTM D 1298
196	CHEMICAL- PETROLEUM AND PRODUCTS	VLSFO	Density	IS 1448 (Part 16)
197	CHEMICAL- PETROLEUM AND PRODUCTS	VLSFO	Density	ISO 3675
198	CHEMICAL- PETROLEUM AND PRODUCTS	VLSFO	Flash Point PMCC	ASTM D 93
199	CHEMICAL- PETROLEUM AND PRODUCTS	VLSFO	Flash Point PMCC	IS 1448 (Part 21)
200	CHEMICAL- PETROLEUM AND PRODUCTS	VLSFO	Flash Point PMCC	ISO 2719
201	CHEMICAL- PETROLEUM AND PRODUCTS	VLSFO	Kinematic Viscosity at 50 °C	ASTM D 445
202	CHEMICAL- PETROLEUM AND PRODUCTS	VLSFO	Kinematic Viscosity at 50 °C	IS 1448(Part 25 /Sec 1)
203	CHEMICAL- PETROLEUM AND PRODUCTS	VLSFO	Kinematic Viscosity at 50 °C	ISO 3104
204	CHEMICAL- PETROLEUM AND PRODUCTS	VLSFO	Phosphorus	IP 501
205	CHEMICAL- PETROLEUM AND PRODUCTS	VLSFO	Pour Point	IS 1448 (Part 10/Sec 2)
206	CHEMICAL- PETROLEUM AND PRODUCTS	VLSFO	Pour Point	ISO 3016
207	CHEMICAL- PETROLEUM AND PRODUCTS	VLSFO	Silicon	IP 501
208	CHEMICAL- PETROLEUM AND PRODUCTS	VLSFO	Sodium	IP 501
209	CHEMICAL- PETROLEUM AND PRODUCTS	VLSFO	Sulfur Total	ISO 8754
210	CHEMICAL- PETROLEUM AND PRODUCTS	VLSFO	TAN	ASTM D 664
211	CHEMICAL- PETROLEUM AND PRODUCTS	VLSFO	Total Sediment Potential	ISO 10307-2
212	CHEMICAL- PETROLEUM AND PRODUCTS	VLSFO	Used Lubricating Oil (Calcium + Zinc Or Phosphorus)	IP 501

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213	CHEMICAL- PETROLEUM AND PRODUCTS	VLSFO	Vanadium	IP 501
214	CHEMICAL- PETROLEUM AND PRODUCTS	VLSFO	Water content	ASTM D 95
215	CHEMICAL- PETROLEUM AND PRODUCTS	VLSFO	Water content	IS 1448 (Part 40)
216	CHEMICAL- PETROLEUM AND PRODUCTS	VLSFO	Water Content	ISO 3733
217	CHEMICAL- PETROLEUM AND PRODUCTS	VLSFO	Zinc	IP 501