National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BHARAT PETROLEUM CORPORATION LIMITED, QUALITY ASSURANCE LABORATORY, TONDIARPET, QA LABORATORY, NO.35 VAIDYANATHAN STREET, CHENNAI, TAMIL NADU, 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	Grease	Appearance	SOP 09 Issue No. 03
2	CHEMICAL- LUBRICANTS	Grease	Colour, Visual	SOP 11 Issue No. 03
3	CHEMICAL- LUBRICANTS	Grease	Consistency of worked Grease at 25 + 0.5°C	ASTM D 217
4	CHEMICAL- LUBRICANTS	Grease	Consistency of worked Grease at 25 + 0.5°C	IS:1448(P : 60)
5	CHEMICAL- LUBRICANTS	Grease	Drop Point	ASTM D 2265
6	CHEMICAL- LUBRICANTS	Lubricating Oil	Zinc Content	ASTMD 6481
7	CHEMICAL- LUBRICANTS	Lubricating Oil	Appearance	SOP 09 Issue No. 03
8	CHEMICAL- LUBRICANTS	Lubricating Oil	Calcium Content	ASTM D 6481
9	CHEMICAL- LUBRICANTS	Lubricating Oil	Colour, ASTM	ASTM D : 1500
10	CHEMICAL- LUBRICANTS	Lubricating Oil	Colour, ASTM	ASTMD6045
11	CHEMICAL- LUBRICANTS	Lubricating Oil	Colour, ASTM	IS:1448(P-12)
12	CHEMICAL- LUBRICANTS	Lubricating Oil	Colour, Visual	SOP 11 – Issue No. 03
13	CHEMICAL- LUBRICANTS	Lubricating Oil	Crackle Test	SOP 10 – Issue No. 03
14	CHEMICAL- LUBRICANTS	Lubricating Oil	Cu Strip Corrosion	IS:1448(P-15)
15	CHEMICAL- LUBRICANTS	Lubricating Oil	Density	ASTM D 4052
16	CHEMICAL- LUBRICANTS	Lubricating Oil	Density	ASTM D1298
17	CHEMICAL- LUBRICANTS	Lubricating Oil	Density	IS:1448(P-16)
18	CHEMICAL- LUBRICANTS	Lubricating Oil	Emulsion Characteristics	ASTM D 1401
19	CHEMICAL- LUBRICANTS	Lubricating Oil	Emulsion Stability Test	IS 1448 (P-98)
20	CHEMICAL- LUBRICANTS	Lubricating Oil	Flash Point (Pensky Marten)	ASTM D93
21	CHEMICAL- LUBRICANTS	Lubricating Oil	Flash Point (Pensky Marten)	IS:1448(P-21)
22	CHEMICAL- LUBRICANTS	Lubricating Oil	Flash Point (COC)	ASTM D : 92
23	CHEMICAL- LUBRICANTS	Lubricating Oil	Flash Point (COC)	IS:1448(P-69)
24	CHEMICAL- LUBRICANTS	Lubricating Oil	Foaming Characteristics	ASTM D892
25	CHEMICAL- LUBRICANTS	Lubricating Oil	Frothing Test	IS:1448 -P-99
26	CHEMICAL- LUBRICANTS	Lubricating Oil	Insoluble (Pentane & Toluene)	ASTM D893
27	CHEMICAL- LUBRICANTS	Lubricating Oil	Kinematic Viscosity, at 100°C	ASTM D 7042
28	CHEMICAL- LUBRICANTS	Lubricating Oil	Kinematic Viscosity, at 100°C	ASTM D445

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29	CHEMICAL- LUBRICANTS	Lubricating Oil	Kinematic Viscosity, at 100°C	IS:1448(P-25)Sec 1
30	CHEMICAL- LUBRICANTS	Lubricating Oil	Kinematic Viscosity, at 40°C	ASTM D 7042
31	CHEMICAL- LUBRICANTS	Lubricating Oil	Kinematic Viscosity, at 40°C	ASTM D445
32	CHEMICAL- LUBRICANTS	Lubricating Oil	Kinematic Viscosity, at 40°C	IS:1448(P-25) Sec 1
33	CHEMICAL- LUBRICANTS	Lubricating Oil	Phosphorus Content	ASTMD6481
34	CHEMICAL- LUBRICANTS	Lubricating Oil	Pour Point	ASTM 5949
35	CHEMICAL- LUBRICANTS	Lubricating Oil	Pour Point	ASTM D 97
36	CHEMICAL- LUBRICANTS	Lubricating Oil	Pour Point	IS:1448(P-10)Section 2
37	CHEMICAL- LUBRICANTS	Lubricating Oil	Total Acid Number (TAN),	ASTM D 664
38	CHEMICAL- LUBRICANTS	Lubricating Oil	Total Base Number (TBN)	ASTM D : 2896
39	CHEMICAL- LUBRICANTS	Lubricating Oil	Total Base Number (TBN)	IS 1448 (P-86)
40	CHEMICAL- LUBRICANTS	Lubricating Oil	Viscosity Index	ASTM D : 2270-2010
41	CHEMICAL- LUBRICANTS	Lubricating Oil	Viscosity Index	IS:1448(P:56)
42	CHEMICAL- LUBRICANTS	Lubricating Oil	Water Content	IS:1448(P-40)
43	CHEMICAL- LUBRICANTS	Lubricating Oil	Water content by Coulometric Karl Fischer Titration	ASTM D 6304
44	CHEMICAL- LUBRICANTS	NOx reduction agent AUS 32 (DEF, AdBlue	Magnesium	ISO 22241–2 Annex I
45	CHEMICAL- LUBRICANTS	NOx reduction agent AUS 32 (DEF, AdBlue)	Aluminium	ISO 22241–2 Annex I
46	CHEMICAL- LUBRICANTS	NOx reduction agent AUS 32 (DEF, AdBlue)	Copper	ISO 22241–2 Annex I
47	CHEMICAL- LUBRICANTS	NOx reduction agent AUS 32 (DEF, AdBlue)	Nickel	ISO 22241–2 Annex I
48	CHEMICAL- LUBRICANTS	NOx reduction agent AUS 32 (DEF, AdBlue)	Zinc	ISO 22241–2 Annex I
49	CHEMICAL- LUBRICANTS	NOx reduction agent AUS 32 (DEF, AdBlue)	Aldehydes	ISO 22241–2 Annex F
50	CHEMICAL- LUBRICANTS	NOx reduction agent AUS 32 (DEF, AdBlue)	Alkalinity as NH3	ISO 22241–2 Annex D
51	CHEMICAL- LUBRICANTS	NOx reduction agent AUS 32 (DEF, AdBlue)	Biuret	ISO 22241–2 Annex E
52	CHEMICAL- LUBRICANTS	NOx reduction agent AUS 32 (DEF, AdBlue)	Calcium	ISO 22241–2 Annex I
53	CHEMICAL- LUBRICANTS	NOx reduction agent AUS 32 (DEF, AdBlue)	Chromium	ISO 22241–2 Annex I
54	CHEMICAL- LUBRICANTS	NOx reduction agent AUS 32 (DEF, AdBlue)	Density at 20 °C	ASTM D 1298
55	CHEMICAL- LUBRICANTS	NOx reduction agent AUS 32 (DEF, AdBlue)	Density at 20 °C	ASTM D4052
56	CHEMICAL- LUBRICANTS	NOx reduction agent AUS 32 (DEF, AdBlue)	Density at 20 °C	IS 1448 (P16)
57	CHEMICAL- LUBRICANTS	NOx reduction agent AUS 32 (DEF, AdBlue)	Insoluble matter	ISO 22241–2 Annex G
58	CHEMICAL- LUBRICANTS	NOx reduction agent AUS 32 (DEF, AdBlue)	Phosphate (PO4)	ISO 22241–2 Annex I

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59	CHEMICAL- LUBRICANTS	NOx reduction agent AUS 32 (DEF, AdBlue)	Potassium	ISO 22241–2 Annex I
60	CHEMICAL- LUBRICANTS	NOx reduction agent AUS 32 (DEF, AdBlue)	Refractive index at 20 °C	ISO 22241–2 Annex C
61	CHEMICAL- LUBRICANTS	NOx reduction agent AUS 32 (DEF, AdBlue)	Sodium	ISO 22241–2 Annex I
62	CHEMICAL- LUBRICANTS	NOx reduction agent AUS 32 (DEF, AdBlue)	Urea content	ISO 22241-2 Annex C
63	CHEMICAL- LUBRICANTS	NOx reduction agent AUS 32 (DEF, AdBlue)	Iron	ISO 22241–2 Annex I
64	CHEMICAL- PETROLEUM AND PRODUCTS	SKO: Kerosene	Cu Strip Corrosion	IS:1448(P-15) 2004
65	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fue	Distillation :Residue	ASTM D86
66	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Acidity, Total	IS:1448(P-113) 1983
67	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Appearance	IS 1571
68	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Aromatics	IS:1448(P-23)
69	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Colour Saybolt	ASTM D 156
70	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Colour Saybolt	ASTM D6045
71	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Colour Saybolt	IS:1448(P-14)
72	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Cu Strip Corrosion	IS:1448(P-15)
73	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Density	ASTM D 4052
74	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Density	ASTM D1298
75	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Density	IS:1448(P-16)
76	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Distillation : Loss	IS:1448 (P-18)
77	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Distillation :Residue	ASTM D86
78	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Distillation :Residue	IS:1448 (P-18)
79	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Distillation, 10% Recovery v/v,	ASTM D86

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80	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Distillation, 10% Recovery v/v,	IS:1448 (P-18)
81	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Distillation, 50% Recovery v/v	ASTM D86
82	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Distillation, 50% Recovery v/v	IS:1448 (P-18)
83	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Distillation, 90% Recovery v/v	ASTM D86
84	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Distillation, 90% Recovery v/v	IS:1448 (P-18)
85	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Distillation, Final Boiling Point	ASTM D86
86	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Distillation, Final Boiling Point .	IS:1448 (P-18)
87	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Distillation, Initial boiling point,	ASTM D86
88	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Distillation, Initial boiling point,	IS:1448 (P-18)
89	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Doctor Test	IS:1448(P-19)
90	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Electrical conductivity	ISO 6297
91	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Existent Gum	IS:1448(P-29)
92	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Flash Point (Abel)	IP 170
93	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Flash Point (Abel)	IS:1448(P-20)
94	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Flash Point (Abel)	ISO 13736
95	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Freezing Point	ASTM D 2386
96	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Freezing Point	ASTM D 5972
97	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Freezing Point	IS:1448(P-11)
98	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Kinematic Viscosity, at (-20)°C	IS:1448(P-25) SEC 1

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99	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Kinematic Viscosity, at (-20)°C (Auto)	ASTM D 7042
100	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Naphthalene	ASTM D-1840
101	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Naphthalene	IS:1448(P:118)
102	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Silver Strip Corrosion classification	Annex B of IS 1571
103	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Smoke point	ASTM D1322 (Auto)
104	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Smoke point	IS:1448(P-31)
105	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Smoke Point (automated method)	IP598
106	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Specific Energy	ASTM D3338
107	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Sulphur, Total	ASTM D : 4294
108	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Water reaction : Interface rating	IS:1448(P-42)
109	CHEMICAL- PETROLEUM AND PRODUCTS	Furnace Oil (FO)	Appearance	SOP-9- Issue NO. 3
110	CHEMICAL- PETROLEUM AND PRODUCTS	Furnace Oil (FO)	Calorific Value-Gross, kcal/kg	IS:1448(Part-7)
111	CHEMICAL- PETROLEUM AND PRODUCTS	Furnace Oil (FO)	Colour Visual	SOP-11 Issue NO. 3
112	CHEMICAL- PETROLEUM AND PRODUCTS	Furnace Oil (FO)	Density	ASTM D1298
113	CHEMICAL- PETROLEUM AND PRODUCTS	Furnace Oil (FO)	Density	IS:1448 (Part-16)
114	CHEMICAL- PETROLEUM AND PRODUCTS	Furnace Oil (FO)	Flash Point (PMCC)	ASTM D93- Proc B
115	CHEMICAL- PETROLEUM AND PRODUCTS	Furnace Oil (FO)	Flash Point (PMCC)	IS 1448 (P21)
116	CHEMICAL- PETROLEUM AND PRODUCTS	Furnace Oil (FO)	Kinematic Viscosity, at 50°C	ASTM D 445
117	CHEMICAL- PETROLEUM AND PRODUCTS	Furnace Oil (FO)	Kinematic Viscosity, at 50°C	IS:1448(Part-25)

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118	CHEMICAL- PETROLEUM AND PRODUCTS	Furnace Oil (FO)	Pour Point	ASTM D 97
119	CHEMICAL- PETROLEUM AND PRODUCTS	Furnace Oil (FO)	Pour Point	IS:1448(Part-10)
120	CHEMICAL- PETROLEUM AND PRODUCTS	Furnace Oil (FO)	Sediments	IS:1448(Part-30)
121	CHEMICAL- PETROLEUM AND PRODUCTS	Furnace Oil (FO)	Total Sulphur % by mass	ASTM 4294
122	CHEMICAL- PETROLEUM AND PRODUCTS	Furnace Oil (FO)	Total Sulphur % by mass	ISO 8754
123	CHEMICAL- PETROLEUM AND PRODUCTS	Furnace Oil (FO)	Water Content	IS:1448(Part-40)
124	CHEMICAL- PETROLEUM AND PRODUCTS	Light Diesel Oil (LDO)/ Heating Oil	Kinematic Viscosity, at 40°C	ASTM D 7042
125	CHEMICAL- PETROLEUM AND PRODUCTS	Light Diesel Oil (LDO)/ Heating Oil	Appearance	SOP-9- Issue NO. 3
126	CHEMICAL- PETROLEUM AND PRODUCTS	Light Diesel Oil (LDO)/ Heating Oil	Colour Visual	SOP-11 Issue NO. 3
127	CHEMICAL- PETROLEUM AND PRODUCTS	Light Diesel Oil (LDO)/ Heating Oil	Cu Strip Corrosion	IS:1448(P-15)
128	CHEMICAL- PETROLEUM AND PRODUCTS	Light Diesel Oil (LDO)/ Heating Oil	Density	ASTM D1298
129	CHEMICAL- PETROLEUM AND PRODUCTS	Light Diesel Oil (LDO)/ Heating Oil	Density	IS:1448 (Part-16)
130	CHEMICAL- PETROLEUM AND PRODUCTS	Light Diesel Oil (LDO)/ Heating Oil	Flash Point (Pensky Marten)	ASTM D93- Procedure A
131	CHEMICAL- PETROLEUM AND PRODUCTS	Light Diesel Oil (LDO)/ Heating Oil	Flash Point (Pensky Marten)	IS:1448(Part-21)
132	CHEMICAL- PETROLEUM AND PRODUCTS	Light Diesel Oil (LDO)/ Heating Oil	Kinematic Viscosity, at 40°C	ASTM D 445
133	CHEMICAL- PETROLEUM AND PRODUCTS	Light Diesel Oil (LDO)/ Heating Oil	Kinematic Viscosity, at 40°C	IS:1448(Part-25)
134	CHEMICAL- PETROLEUM AND PRODUCTS	Light Diesel Oil (LDO)/ Heating Oil	Pour Point	ASTM D 97
135	CHEMICAL- PETROLEUM AND PRODUCTS	Light Diesel Oil (LDO)/ Heating Oil	Pour Point	IS 1448 -Part 10/Sec 2
136	CHEMICAL- PETROLEUM AND PRODUCTS	Light Diesel Oil (LDO)/ Heating Oil	Sediments	IS:1448(Part-30)

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137	CHEMICAL- PETROLEUM AND PRODUCTS	Light Diesel Oil (LDO)/ Heating Oil	Sulphur, Total	ASTM D 4294
138	CHEMICAL- PETROLEUM AND PRODUCTS	Light Diesel Oil (LDO)/ Heating Oil	Water Content	IS:1448(Part-40)
139	CHEMICAL- PETROLEUM AND PRODUCTS	SKO: Kerosene	Appearance	SOP-9- Issue NO. 3
140	CHEMICAL- PETROLEUM AND PRODUCTS	SKO: Kerosene	Colour Saybolt	ASTM D 6045
141	CHEMICAL- PETROLEUM AND PRODUCTS	SKO: Kerosene	Colour Saybolt	ASTM D156
142	CHEMICAL- PETROLEUM AND PRODUCTS	SKO: Kerosene	Colour Saybolt	IS:1448(P-14)
143	CHEMICAL- PETROLEUM AND PRODUCTS	SKO: Kerosene	Colour Visual	SOP-11- Issue NO. 3
144	CHEMICAL- PETROLEUM AND PRODUCTS	SKO: Kerosene	Density	ASTM D 4052
145	CHEMICAL- PETROLEUM AND PRODUCTS	SKO: Kerosene	Density,	ASTM D1298
146	CHEMICAL- PETROLEUM AND PRODUCTS	SKO: Kerosene	Density,	IS:1448(P-16)
147	CHEMICAL- PETROLEUM AND PRODUCTS	SKO: Kerosene	Distillation, Final Boiling Point .	ASTM D86
148	CHEMICAL- PETROLEUM AND PRODUCTS	SKO: Kerosene	Distillation, Final Boiling Point .	IS:1448 (P-18)
149	CHEMICAL- PETROLEUM AND PRODUCTS	SKO: Kerosene	Distillation, Recovery at 200°C,	ASTM D86
150	CHEMICAL- PETROLEUM AND PRODUCTS	SKO: Kerosene	Distillation, Recovery at 200°c,	IS:1448 (P-18)
151	CHEMICAL- PETROLEUM AND PRODUCTS	SKO: Kerosene	Flash Point (Abel)	IP 170
152	CHEMICAL- PETROLEUM AND PRODUCTS	SKO: Kerosene	Flash Point (Abel)	IS:1448 (P-20)
153	CHEMICAL- PETROLEUM AND PRODUCTS	SKO: Kerosene	Flash Point (Abel)	ISO 13736
154	CHEMICAL- PETROLEUM AND PRODUCTS	SKO: Kerosene	Smoke point	IP 598 (Auto)
155	CHEMICAL- PETROLEUM AND PRODUCTS	SKO: Kerosene	Smoke Point	IS:1448(P-31)

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156	CHEMICAL- PETROLEUM AND PRODUCTS	SKO: Kerosene	Smoke point	ISO 3014
157	CHEMICAL- PETROLEUM AND PRODUCTS	SKO: Kerosene	Total Sulphur % by mass	ASTM D4294