National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : QUALITY CONTROL LABORATORY, CHENNAI PETROLEUM CORPORATION LIMITED, MANALI, THIRUVALLUR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 16/12/2022 to 15/12/2024 **Last Amended on** 28/12/2022

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	LOBS	Carbon Residue, Micro Method	ISO 10370
2	CHEMICAL- LUBRICANTS	LOBS	Colour (ASTM)	IS 1448 (P:12)
3	CHEMICAL- LUBRICANTS	LOBS	Colour ASTM	ASTM D6045
4	CHEMICAL- LUBRICANTS	LOBS	Flash Point (COC)	ASTM D92
5	CHEMICAL- LUBRICANTS	LOBS	Kinematic Viscosity @ 100 Deg C	ASTM D 7042
6	CHEMICAL- LUBRICANTS	LOBS	Kinematic Viscosity at 100 Deg C	IS 1448 (P:25)
7	CHEMICAL- LUBRICANTS	LOBS	Kinematic Viscosity at 40 Deg C	ASTM D 445
8	CHEMICAL- LUBRICANTS	LOBS	Kinematic Viscosity at 40 Deg C	ASTM D7042
9	CHEMICAL- LUBRICANTS	LOBS	Pour Point	ASTM D 7346
10	CHEMICAL- LUBRICANTS	LOBS	Pour Point	ASTM D 97
11	CHEMICAL- LUBRICANTS	LOBS	Sulphur, Total	ASTM D4294
12	CHEMICAL- LUBRICANTS	LOBS	Total Acid Number	ASTM D664
13	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Ash Content	IS 1448 (P:4)
14	CHEMICAL- PETROLEUM AND PRODUCTS	ATF, ATF High Flash Point Type, Kerosene	Distillation, Initial Boiling Point	IS 1448 (P:18)
15	CHEMICAL- PETROLEUM AND PRODUCTS	ATF, ATF High Flash Point Type	Electrical Conductivity	ASTM D2624
16	CHEMICAL- PETROLEUM AND PRODUCTS	ATF, ATF High Flash Point Type	Existent Gum	IS 1448 (P:29)
17	CHEMICAL- PETROLEUM AND PRODUCTS	ATF, ATF High Flash Point Type	Existent Gum content of Aviation Turbine Fuel	IP 540
18	CHEMICAL- PETROLEUM AND PRODUCTS	ATF, ATF High Flash Point Type	Micro Separometer Rating	IS 1448 (P:142)
19	CHEMICAL- PETROLEUM AND PRODUCTS	ATF, ATF High Flash Point Type	Naphthalene Hydrocarbon in ATF	IS 1448 (P:118)
20	CHEMICAL- PETROLEUM AND PRODUCTS	ATF, ATF High Flash Point Type	Silver Strip Corrosion	IS 1571, ANNEX 'B'
21	CHEMICAL- PETROLEUM AND PRODUCTS	ATF, ATF High Flash Point Type	Thermal Stability, JFTOT, Filter pressure differential	IS 1448 (P:97)

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22	CHEMICAL- PETROLEUM AND PRODUCTS	ATF, ATF High Flash Point Type	Thermal Stability, JFTOT, Tube rating, Visual	IS 1448 (P:97)
23	CHEMICAL- PETROLEUM AND PRODUCTS	ATF, ATF High Flash Point Type	Water Reaction	IS 1448 (P:42)
24	CHEMICAL- PETROLEUM AND PRODUCTS	ATF, ATF High Flash Point Type, Kerosene	Distillation, 10% Recovery	IS 1448 (P:18)
25	CHEMICAL- PETROLEUM AND PRODUCTS	ATF, ATF High Flash Point Type, Kerosene	Distillation, 50% Recovery	IS 1448 (P:18)
26	CHEMICAL- PETROLEUM AND PRODUCTS	ATF, ATF High Flash Point Type, Kerosene	Distillation, 90% Recovery	IS 1448 (P:18)
27	CHEMICAL- PETROLEUM AND PRODUCTS	ATF, ATF High Flash Point Type, Kerosene	Distillation, Final Boiling Point	IS 1448 (P:18)
28	CHEMICAL- PETROLEUM AND PRODUCTS	ATF, ATF High Flash Point Type, Kerosene	Distillation, Loss	IS 1448 (P:18)
29	CHEMICAL- PETROLEUM AND PRODUCTS	ATF, ATF High Flash Point Type, Kerosene	Distillation, Residue	IS 1448 (P:18)
30	CHEMICAL- PETROLEUM AND PRODUCTS	ATF, ATF High Flash Point Type, Kerosene	Smoke Point	IS 1448 (P:31)
31	CHEMICAL- PETROLEUM AND PRODUCTS	ATF, ATF High Flash Point Type, Kerosene, Petroleum Hydrocarbon Solvent	Flash Point, Abel Closed Cup method	IS 1448 (P:20)
32	CHEMICAL- PETROLEUM AND PRODUCTS	ATF, ATF High Flash Point Type, Naphtha, Motor Gasoline, Hexane Food Grade, Kerosene, Petroleum Hydrocarbon Solvent	Density by Hydrometer	IS 1448 (P:16)
33	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation fuels	Colour, Saybolt	ASTM D156
34	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Electrical Conductivity	IS 1448 (P:148)
35	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Flash point (Abel Closed Cup)	IP 170
36	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Kinematic Viscosity at -20 Deg C	ASTM D7042
37	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Total Sulphur	ASTM D5453
38	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Water Reaction, Interface Rating	ASTM D1094
39	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel, ATF High Flash Point Type	Freezing Point (Automatic Laser Method)	ASTM D7153

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40	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel, ATF High Flash Point Type	Aromatics	ASTM D1319
41	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel, ATF High Flash Point Type	Colour	IS 1448 (P:14)
42	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel, ATF High Flash Point Type	Copper strip corrosion for 2hrs at 100 Deg C	IS 1448 (P:15)
43	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel, ATF High Flash Point Type	Density at 15 Deg C	ASTM D4052
44	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel, ATF High Flash Point Type	Distillation, 50% Recovery	ASTM D86
45	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel, ATF High Flash Point Type	Distillation, 90% Recovery	ASTM D86
46	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel, ATF High Flash Point Type	Distillation, Final Boiling Point	ASTM D86
47	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel, ATF High Flash Point Type	Distillation, Initial Boiling Point	ASTM D86
48	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel, ATF High Flash Point Type	Distillation, Loss	ASTM D86
49	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel, ATF High Flash Point Type	Distillation, Residue	ASTM D86
50	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel, ATF High Flash Point Type	Distillation,10% Recovery	ASTM D86
51	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel, ATF High Flash Point Type	Existent Gum	ASTM D381
52	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel, ATF High Flash Point Type	Kinematic Viscosity at -20 Deg C	ASTM D445
53	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel, ATF High Flash Point Type	LEVEL OF CLEANLINESS OF AVIATION TURBINE FUEL	IP 577 (AUTOMATIC PARTICLE COUNTER METHOD USING LIGHT EXTINCTION)
54	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel, ATF High Flash Point Type	Lubricity (BOCLE)	ASTM D5001
55	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel, ATF High Flash Point Type	Micro Separometer Rating	ASTM D3948
56	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel, ATF High Flash Point Type	Naphthalenes	ASTM D1840
57	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel, ATF High Flash Point Type	Particulate Contamination	ASTM D5452

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58	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel, ATF High Flash Point Type	Specific Energy	ASTM D3338
59	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel, ATF High Flash Point Type	Sulphur Mercaptan	ASTM D3227
60	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel, ATF High Flash Point Type	Sulphur Mercaptan	IS 1448 (P:109)
61	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel, ATF High Flash Point Type	Thermal Stability, JFTOT, Filter Pressure Differential	ASTM D3241
62	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel, ATF High Flash Point Type	Thermal Stability, JFTOT, Tube rating, Visual	ASTM D3241
63	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel, ATF High Flash Point Type	Total Acidity	ASTM D3242
64	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel, ATF High Flash Point Type	Total Acidity of ATF	IS 1448 (P:113)
65	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel, ATF High Flash Point Type	Total Sulphur	ASTM D4294
66	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel, ATF High Flash Point Type, Naphtha, Hexane-Food Grade	Colour	ASTM D6045
67	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel, ATF High Flash Point Type/ SKO	Smoke Point	ASTM D1322
68	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel, ATF High Flash Point, Kerosene, Naphtha, Food Grade Hexane	Colour, Saybolt	ASTM D6045
69	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Carbon Residue, Micro Method	ASTM D4530
70	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Cetane Index by Four Variable Equation	IS 1448 (P:174)
71	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Cold Filter Plugging point	ASTM D6371
72	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Cold Filter Plugging Point	IS 1448 (P:110)
73	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Colour (ASTM)	IS 1448 (P:12)/ISO 2049
74	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Colour, ASTM D1500	ASTM D6045
75	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Copper Strip Corrosion	ASTM D130
76	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Copper Strip Corrosion	IS 1448 (P:15) / ISO 2160

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77	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Density at 15 Deg C	ASTM D4052
78	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Distillation 10% v/v Recovery	IS 1448 (P:18)
79	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Distillation 95% V/V Recovery	ASTM D86
80	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Distillation 95% v/v Recovery	IS 1448 (P:18)
81	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Distillation, 10% v/v Recovery	ASTM D86
82	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Distillation, 90%	ASTM D86
83	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Distillation, 95% v/v Recovery	ASTM D86
84	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Distillation, Auto 50%	ASTM D86
85	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Flash point (Abel Closed Cup)	IP 170
86	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Flash Point (Able Closed Cup)	IS 1448 (P:20)
87	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Kinematic Viscosity at 40 Deg C	ASTM D445
88	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Kinematic Viscosity at 40 Deg C	ASTM D7042
89	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Kinematic Viscosity at 40 Deg C	IS 1448 (P:25)
90	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Lubricity, HFRR	IS 1448 (P:149)/ISO 12156-1
91	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Total Sulphur	ASTM D4294
92	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Total Sulphur	ASTM D5453
93	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel, ATF, ATF High Flash Point Type	Density at 15 Deg C	IS 1448 (P 167) / ISO 12185
94	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel, Fuel Oil	Flash point - Pensky Martens Closed Cup Method	IS 1448 (P:21)/ISO 2719
95	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel, Fuel Oil	Pour point	ASTM D 7346

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96	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel, Fuel Oil	Pour Point	ASTM D97
97	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel, Fuel Oil, Crude Oil	Total Acid Number	ASTM D664
98	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil	Carbon Residue, Micro Method	ISO 10370
99	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil	Density by Hydrometer	IS 1448 (P:16)
100	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil	Kinematic Viscosity at 50 Deg C	IS 1448 (P:25)
101	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil	Sulphur, total	ASTM D4294
102	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil, Naphtha	Calorific Value (Calculation)	IS 1448 (P:7)
103	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene	Copper Strip corrosion	IS 1448 (P:15)
104	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene	Distillation	ASTM D86
105	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene	Flash Point (Abel Closed Cup)	IP 170
106	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene	Smoke Point	ASTM D1322
107	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene, Diesel, Naphtha	Total Sulphur Content	ASTM D4294
108	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene, Naphtha, Hexane-Food Grade	Colour (Saybolt)	S 1448 (P:14)
109	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Distillation, % Evaporated at 100 Deg C	IS 1448 (P:18)
110	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Distillation, % Evaporated at 150 Deg C	IS 1448 (P:18)
111	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Distillation, Final Boiling Point	IS 1448 (P:18)
112	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Distillation, Residue	IS 1448 (P:18)
113	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Distillation,% Evaporated at 70 Deg C	IS 1448 (P:18)
114	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Gum Content	ASTM D381

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115	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Olefine Content	ASTM D1319
116	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Research Octane Number	ASTM D2699
117	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline, Hexane-Food Grade	Total Sulphur	ASTM D5453
118	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline, Naphtha, Hexane-Food Grade	Aromatics	ASTM D1319
119	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline, Naphtha, Hexane-Food Grade	Density @15 Deg C	ASTM D4052
120	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline. Hexane Food Grade, Naphtha, Petroleum Hydrocarbon Solvent, ATF, ATF High Flash Point Type	Aromatics	IS 1448 (P:23)
121	CHEMICAL- PETROLEUM AND PRODUCTS	Naphtha, Hexane Food Grade	Non Volatile matter	IS 1448 (P:64)