National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : QUALITY CONTROL LABORATORY, INDIAN OIL CORPORATION LIMITED, PANIPAT REFINERY, PANIPAT, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 31/07/2021 to 30/07/2023 **Last Amended on** 10/11/2022

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- PETROLEUM AND PRODUCTS	AVIATION TURBINE FUEL	Particle Size Channel Count	IP 577
2	CHEMICAL- PETROLEUM AND PRODUCTS	AVIATION TURBINE FUEL	Particulate Contaminate	IP 423/D 5452
3	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMATIVE DIESEL FUEL (HSD)	Acidity-Total, mg of KOH/g	P 2 / ASTM D664
4	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMATIVE DIESEL FUEL (HSD)	Ash	P 4 /ASTM D482
5	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMATIVE DIESEL FUEL (HSD)	Carbon Residue(MICRO) on10% Residue	ISO 10370
6	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMATIVE DIESEL FUEL (HSD)	CETANE INDEX	ASTM D 4737
7	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMATIVE DIESEL FUEL (HSD)	CETANE NO.	IS 1448 (PART 9)
8	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMATIVE DIESEL FUEL (HSD)	Cold Filter Plugging Point	P 110 / ASTM D6371
9	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMATIVE DIESEL FUEL (HSD)	Copper strip corrosion for 3h at 50 °C	IS 1448:15
10	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMATIVE DIESEL FUEL (HSD)	Density at 15°C	D4052 /P16/ISO 12185
11	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMATIVE DIESEL FUEL (HSD)	DISTILLATION	IS 1448 (PART 18)
12	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMATIVE DIESEL FUEL (HSD)	FLASH POINT (ABEL)	IS 1448 (PART 20)
13	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMATIVE DIESEL FUEL (HSD)	INORGANIC ACIDITY	ISO 6618
14	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMATIVE DIESEL FUEL (HSD)	KINEMATIC VISCOSITY	IS 1448 (PART 25)
15	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMATIVE DIESEL FUEL (HSD)	LUBRICITY	ISO 12156
16	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMATIVE DIESEL FUEL (HSD)	Oxidation Stability	ASTM 2274
17	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMATIVE DIESEL FUEL (HSD)	POLYCYCLIC AROMATIC HYDROCARBON	IP391
18	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMATIVE DIESEL FUEL (HSD)	Pour Point	P 10 / ASTM D 97

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19	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMATIVE DIESEL FUEL (HSD)	Total Contamination	EN12662 /IP440
20	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMATIVE DIESEL FUEL (HSD)	Total Sulphur	ASTM 5453
21	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMATIVE DIESEL FUEL (HSD)	Total Sulphur	ASTM D 2622
22	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMATIVE DIESEL FUEL (HSD)	VISUAL APPEARANCE	VISUAL: 2017
23	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMATIVE DIESEL FUEL (HSD)	Water Content	ISO 12937/ ASTM D6304
24	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Freezing Point	ASTM D5972
25	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Smoke Point	IP 598
26	CHEMICAL- PETROLEUM AND PRODUCTS	AVIATION TURBINE FUEL	AROMATICS	IS 1448 (PART 23)-2016/ASTM D1319-
27	CHEMICAL- PETROLEUM AND PRODUCTS	AVIATION TURBINE FUEL	Aromatics by HPLC % Vol	ASTM D6379
28	CHEMICAL- PETROLEUM AND PRODUCTS	AVIATION TURBINE FUEL	CONDUCTIVITY	IP 274
29	CHEMICAL- PETROLEUM AND PRODUCTS	AVIATION TURBINE FUEL	Copper Corrosion -2hr.at 100oC	IS 1448:15/ IP 154/ D130
30	CHEMICAL- PETROLEUM AND PRODUCTS	AVIATION TURBINE FUEL	DENSITY @ 15 ºC	ASTM 4052/IS 1448 P:16
31	CHEMICAL- PETROLEUM AND PRODUCTS	AVIATION TURBINE FUEL	Density at 15°C	D4052 /P16/ISO 12185
32	CHEMICAL- PETROLEUM AND PRODUCTS	AVIATION TURBINE FUEL	DISTILLATION	IS 1448 (PART 18)2016/ ASTM D86
33	CHEMICAL- PETROLEUM AND PRODUCTS	AVIATION TURBINE FUEL	EXISTENT GUM	IS 1448 (PART 29)
34	CHEMICAL- PETROLEUM AND PRODUCTS	AVIATION TURBINE FUEL	FLASH POINT (ABEL)	IS 1448 (PART 20)
35	CHEMICAL- PETROLEUM AND PRODUCTS	AVIATION TURBINE FUEL	FREEZING POINT	IS 1448 (PART 11)
36	CHEMICAL- PETROLEUM AND PRODUCTS	AVIATION TURBINE FUEL	Freezing Point	ASTM D7153
37	CHEMICAL- PETROLEUM AND PRODUCTS	AVIATION TURBINE FUEL	JET FUEL THERMAL OXIDATION TESTER- HEATER TUBE	IS 1448 (PART 97)/ ISO 6249

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38	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	JFTOT	D3241
39	CHEMICAL- PETROLEUM AND PRODUCTS	AVIATION TURBINE FUEL	KINEMATIC VISCOSITY @ -20 °C	IS 1448 (PART 25)
40	CHEMICAL- PETROLEUM AND PRODUCTS	AVIATION TURBINE FUEL	Kinematic viscosity at -20°C	ASTM D7042
41	CHEMICAL- PETROLEUM AND PRODUCTS	AVIATION TURBINE FUEL	LUBRICITY	ASTM 5001
42	CHEMICAL- PETROLEUM AND PRODUCTS	AVIATION TURBINE FUEL	MERCAPTAN SULPHUR	IS 1448 (PART 109)
43	CHEMICAL- PETROLEUM AND PRODUCTS	AVIATION TURBINE FUEL	MSEP	IS 1448 (PART 142)
44	CHEMICAL- PETROLEUM AND PRODUCTS	AVIATION TURBINE FUEL	NAPHTHALENES	IS 1448 (PART 118)
45	CHEMICAL- PETROLEUM AND PRODUCTS	AVIATION TURBINE FUEL	SAYBOLT COLOUR	ASTM D 6045
46	CHEMICAL- PETROLEUM AND PRODUCTS	AVIATION TURBINE FUEL	SILVER CORROSION	IS 1571 ANNEX B
47	CHEMICAL- PETROLEUM AND PRODUCTS	AVIATION TURBINE FUEL	SMOKE POINT	IS 1448 (PART 31)/ ISO 3014
48	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel	Specific Energy	ASTM D3338
49	CHEMICAL- PETROLEUM AND PRODUCTS	AVIATION TURBINE FUEL	TOTAL ACIDITY	IS 1448 (PART 113)
50	CHEMICAL- PETROLEUM AND PRODUCTS	AVIATION TURBINE FUEL	TOTAL SULPHUR	ASTM D 4294
51	CHEMICAL- PETROLEUM AND PRODUCTS	AVIATION TURBINE FUEL	VISUAL APPEARANCE	VISUAL/D4176
52	CHEMICAL- PETROLEUM AND PRODUCTS	AVIATION TURBINE FUEL	WATER REACTION : INTERFACE RATING	IS 1448 (PART 42)
53	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE	Aromatic Content	ASTM D5580
54	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE	Aromatic Content	P 23/ ASTM D1319
55	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE	Aromatic Content	ASTM D6730
56	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE	Aromatic Content	ASTM D6839

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57	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE	BENZENE	ASTM D 6730
58	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE	Benzene Content	ASTM D 6839
59	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE	Benzene Content	ASTM D5580
60	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE	Colour	Visual: 2017
61	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE	Cu Corrosion	IS 1448 (Part 15)
62	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE	DENSITY	ASTM D 4052
63	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE	DISTILLATION	IS 1448 (Part 18)
64	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE	Gum Content (Solvent washed)	P 29/ ASTMD381
65	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE	Lead	ASTM D 5059
66	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE	MOTOR OCTANE NO.	IS 1448(PART 26)
67	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE	Olefin content	D6730
68	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE	Olefin content	D6839
69	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE	Olefin Content	P 23/ ASTM D1319
70	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE	Oxidation Stability	IS 1448: 28
71	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE	Oxygen Content	ASTM D 4815
72	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE	Reid Vapour Pressure	ASTM D5191
73	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE	RESEARCH OCTANE NO.	IS 1448 (PART 27)
74	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE	SULPHUR CONTENT	ASTM D 5453
75	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE	Vapour Lock Index-Other Months	IS: 2796 (CALCD)

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76	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE	VISUAL APPEARANCE	VISUAL: 2017
77	CHEMICAL- PETROLEUM AND PRODUCTS	PAVING BITUMEN (Crude Base)	Absolute viscosity at 60°C	IS 1206 (Part 2)
78	CHEMICAL- PETROLEUM AND PRODUCTS	PAVING BITUMEN (Crude Base)	Ductility / Ductility on Residue after RTFOT	IS1208
79	CHEMICAL- PETROLEUM AND PRODUCTS	PAVING BITUMEN (Crude Base)	Flash point (Cleveland open cup)	IS 1448 (P:69)
80	CHEMICAL- PETROLEUM AND PRODUCTS	PAVING BITUMEN (Crude Base)	Kinematic viscosity at 135°C	IS 1206 (Part 3)
81	CHEMICAL- PETROLEUM AND PRODUCTS	PAVING BITUMEN (Crude Base)	Penetration	IS 1203
82	CHEMICAL- PETROLEUM AND PRODUCTS	PAVING BITUMEN (Crude Base)	RTFOT Residue - Viscosity /ratio at 60°C	IS 1206 (Part 2)
83	CHEMICAL- PETROLEUM AND PRODUCTS	PAVING BITUMEN (Crude Base)	Softening point	IS 1205
84	CHEMICAL- PETROLEUM AND PRODUCTS	PAVING BITUMEN (Crude Base)	Solubility in trichloroethylene	IS 1216
85	CHEMICAL- POLLUTION & ENVIRONMENT	WASTE WATER	BIOCHEMICAL OXYGEN DEMAND	IS 3025 (PART 44)
86	CHEMICAL- POLLUTION & ENVIRONMENT	WASTE WATER	CHEMICAL OXYGEN DEMAND	APHA 5220 C
87	CHEMICAL- POLLUTION & ENVIRONMENT	WASTE WATER	CHEMICAL OXYGEN DEMAND	APHA 5220B
88	CHEMICAL- POLLUTION & ENVIRONMENT	WASTE WATER	OIL CONTENT	APHA 5520B
89	CHEMICAL- POLLUTION & ENVIRONMENT	WASTE WATER	pH	APHA4500H+B
90	CHEMICAL- POLLUTION & ENVIRONMENT	WASTE WATER	PHENOL	APHA5530D
91	CHEMICAL- POLLUTION & ENVIRONMENT	WASTE WATER	SULPHIDE	APHA 4500-S2-F
92	CHEMICAL- POLLUTION & ENVIRONMENT	WASTE WATER	TOTAL DISSOLVED SOLIDS	APHA 2540C
93	CHEMICAL- POLLUTION & ENVIRONMENT	WASTE WATER	TOTAL SUSPENDED SOLIDS	APHA2540D
94	CHEMICAL- POLLUTION & ENVIRONMENT	WASTE WATER	TURBIDITY	APHA2130B