National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : SALEM SMART LABORATORY, INDIAN OIL CORPORATION LIMITED (MD), NARAPPAN CHAVADI, SANKARI, SALEM, 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- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel	Cetane Index (by Calculation)	ASTM D4737
2	CHEMICAL- PETROLEUM AND PRODUCTS	ATF Jet A-1, Automotive Diesel Fuel, Kerosene	Flash Point (Abel) : Manual	IS1448 P 20
3	CHEMICAL- PETROLEUM AND PRODUCTS	ATF Jet A-1, Automotive Diesel Fuel, Kerosene	FLASH POINT(ABEL): auto	IP 170
4	CHEMICAL- PETROLEUM AND PRODUCTS	ATF Jet A1, Motor Gasoline	Aromatics	ASTM D 1319
5	CHEMICAL- PETROLEUM AND PRODUCTS	ATF Jet A1, Motor Gasoline	Olefins	ASTM D 1319
6	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel	Density by Hydrometer	ASTM D 1298
7	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel	Density by Hydrometer	IS 1448 P 16
8	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel	Appearance	IS 1460
9	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel	Colour- ASTM	ASTM D1500
10	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel	Distillation : AUTO 10% Recovery	ASTM D86
11	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel	Distillation : AUTO 50% Recovery	ASTM D86
12	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel	Distillation : AUTO 90% Recovery	ASTM D86
13	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel	Distillation : AUTO 95% Recovery	ASTM D86
14	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel	Distillation : Manual 10% Recovery	IS 1448 P 18
15	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel	Distillation : Manual 50% Recovery	IS 1448 P 18
16	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel	Distillation : Manual 90% Recovery	IS 1448 P 18
17	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel	Distillation : Manual 95% Recovery	IS 1448 P 18
18	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel, Fuel Oil, LDO	Pour Point	ASTM D 97

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19	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel, Fuel Oil, LDO	Pour Point	IS 1448 P 10
20	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel, Kerosene, Motor Gasoline	Copper Strip Corrosion Test @50°C for 3 Hours	ASTM D 130
21	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel, Kerosene, Motor Gasoline	Copper Strip Corrosion Test @50°C for 3 Hours	IS 1448 P-15
22	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel, LDO	Kinematic viscosity at40 °C Auto	ASTM D7042
23	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel, LDO	Kinematic Viscosity@ 40°C	IS 1448 P 25
24	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel, Motor Gasoline	Total Sulphur	ASTM D 5453
25	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel, Motor Gasoline	Total Sulphur	ASTM D4294
26	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel, LDO	Kinematic Viscosity@ 40°C	ASTM D 445
27	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive DieselFuel, LDO	Density, Auto	ASTM D4052
28	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil	Kinematic Viscosity@ 50°C	ASTM D445
29	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil	Kinematic Viscosity@ 50°C	IS 1448 P 25
30	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil, Automotive Diesel Fuel, LDO	Flash Point (PMCC)	ASTM D93
31	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil, Automotive Diesel Fuel, LDO	Flash Point (PMCC)	IS 1448 P21
32	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil, Automotive Diesel, LDO	Ash Content	ASTM D482
33	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil, Automotive Diesel, LDO	Ash Content	IS1448 P-4:
34	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil, LDO	Total Sulphur	ASTM D 4294
35	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil, LDO	Density by Hydrometer	ASTM D 1298
36	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil, LDO	Density by Hydrometer	IS 1448 P16
37	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil, LDO	Sediment by Extraction	ASTM D 473

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38	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil, LDO	Sediment by Extraction	IS 1448 P 30
39	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil, LDO	Water Content by Dean and Stark Method	IS 1448 P 40
40	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil, LDO	Water Content by Dean Stark Method	ASTM D95
41	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil, LDO	Water Content by Dean Stark Method	ISO3733
42	CHEMICAL- PETROLEUM AND PRODUCTS	Jet A1	Aniline point	ASTM D 611
43	CHEMICAL- PETROLEUM AND PRODUCTS	Jet A1	Aniline point	IS 1448 P-3
44	CHEMICAL- PETROLEUM AND PRODUCTS	Jet A-1	Distillation : AUTO 90% Recovery	ASTM D 86
45	CHEMICAL- PETROLEUM AND PRODUCTS	Jet A-1	Acidity Total	ASTM D 3242
46	CHEMICAL- PETROLEUM AND PRODUCTS	Jet A-1	Acidity Total	IS 1448 P-113
47	CHEMICAL- PETROLEUM AND PRODUCTS	JET A-1	Aniline point	ASTM D 611
48	CHEMICAL- PETROLEUM AND PRODUCTS	Jet A-1	Appearance	IS 1571
49	CHEMICAL- PETROLEUM AND PRODUCTS	Jet A-1	Copper Strip Corrosion Test @100°C for 2 Hours	ASTM D 130
50	CHEMICAL- PETROLEUM AND PRODUCTS	Jet A-1	Density , Auto	ASTM D4052
51	CHEMICAL- PETROLEUM AND PRODUCTS	JET A-1	Distillation : AUTO 10% Recovery	ASTM D 86
52	CHEMICAL- PETROLEUM AND PRODUCTS	Jet A-1	Distillation : AUTO 50% Recovery	ASTM D 86
53	CHEMICAL- PETROLEUM AND PRODUCTS	Jet A-1	Distillation : AUTO, FBP	ASTM D 86
54	CHEMICAL- PETROLEUM AND PRODUCTS	Jet A-1	Distillation : AUTO, Loss	ASTM D 86
55	CHEMICAL- PETROLEUM AND PRODUCTS	Jet A-1	Distillation : AUTO, Residue	ASTM D 86
56	CHEMICAL- PETROLEUM AND PRODUCTS	Jet A-1	Distillation : Manual 50% Recovery	IS 1448 P 18

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57	CHEMICAL- PETROLEUM AND PRODUCTS	Jet A-1	Distillation : Manual 90% Recovery	IS 1448 P 18:
58	CHEMICAL- PETROLEUM AND PRODUCTS	Jet A-1	Distillation : Manual, 10% Recovery	IS 1448 P 18
59	CHEMICAL- PETROLEUM AND PRODUCTS	Jet A-1	Distillation : Manual, FBP	IS 1448 P 18
60	CHEMICAL- PETROLEUM AND PRODUCTS	Jet A-1	Distillation : Manual, IBP	IS 1448 P 18
61	CHEMICAL- PETROLEUM AND PRODUCTS	Jet A-1	Distillation : Manual, Loss	IS 1448 P 18
62	CHEMICAL- PETROLEUM AND PRODUCTS	Jet A-1	Distillation : Manual, Residue	IS 1448 P 18
63	CHEMICAL- PETROLEUM AND PRODUCTS	Jet A-1	Doctor Test	IS 1448 P 19
64	CHEMICAL- PETROLEUM AND PRODUCTS	Jet A-1	Electrical Conductivity	IP 274
65	CHEMICAL- PETROLEUM AND PRODUCTS	Jet A-1	Existent Gum	IP 540
66	CHEMICAL- PETROLEUM AND PRODUCTS	Jet A-1	Existent Gum	IS 1448 P 29
67	CHEMICAL- PETROLEUM AND PRODUCTS	Jet A-1	Freezing Point	ASTM D 2386
68	CHEMICAL- PETROLEUM AND PRODUCTS	Jet A-1	Kinematic Viscosity @ -20°C	ASTM D 445
69	CHEMICAL- PETROLEUM AND PRODUCTS	JET A-1	Kinematic viscosity at -20 °C Auto	ASTM D 7042
70	CHEMICAL- PETROLEUM AND PRODUCTS	Jet A-1	Mercaptan Sulphur	IS 1448 P 109
71	CHEMICAL- PETROLEUM AND PRODUCTS	Jet A-1	Naphthalene Content % vol	ASTM D 1840
72	CHEMICAL- PETROLEUM AND PRODUCTS	Jet A-1	Naphthalene Content % vol	IS 1448 P 118
73	CHEMICAL- PETROLEUM AND PRODUCTS	Jet A-1	Particulate Contamination (Millipore)	IP 216
74	CHEMICAL- PETROLEUM AND PRODUCTS	Jet A-1	Water Detectingcapsule(WDC)	DGCA Approvedmethod 5-465/2011-A1(2)Dt30.09.2016:2016

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75	CHEMICAL- PETROLEUM AND PRODUCTS	Jet A-1	Water Reaction	ASTM D 1094
76	CHEMICAL- PETROLEUM AND PRODUCTS	Jet A-1	Water Reaction	IS 1448 P42
77	CHEMICAL- PETROLEUM AND PRODUCTS	Jet A-1, Kerosene	Smoke Point	IS 1448 P 31
78	CHEMICAL- PETROLEUM AND PRODUCTS	Jet A1	Distillation: AUTO, IBP	ASTM D 86
79	CHEMICAL- PETROLEUM AND PRODUCTS	Jet A1	Existent Gum	ASTM D 381
80	CHEMICAL- PETROLEUM AND PRODUCTS	Jet A1, Motor Gasoline	Aromatics	IS 1448 P 23
81	CHEMICAL- PETROLEUM AND PRODUCTS	JetA-1	Copper Strip Corrosion Test @100°C for 2 Hours	IS 1448 P 15
82	CHEMICAL- PETROLEUM AND PRODUCTS	JetA-1	Electrical Conductivity	ASTM D 2624
83	CHEMICAL- PETROLEUM AND PRODUCTS	JetA-1	Freezing Point	IS 1448 P11
84	CHEMICAL- PETROLEUM AND PRODUCTS	JetA-1	Kinematic Viscosity @ -20°C	IS 1448 P 25
85	CHEMICAL- PETROLEUM AND PRODUCTS	JetA-1	Mercaptan Sulphur	ASTM D 3227
86	CHEMICAL- PETROLEUM AND PRODUCTS	JetA-1	Silver Corrosion Test	Annex-B of IS 1571(IP 227:1999)
87	CHEMICAL- PETROLEUM AND PRODUCTS	JetA-1, Kerosene	Colour- Saybolt	ASTM D 156
88	CHEMICAL- PETROLEUM AND PRODUCTS	JetA-1, Kerosene	Colour- Saybolt	IS 1448 P 14
89	CHEMICAL- PETROLEUM AND PRODUCTS	JetA-1, Kerosene	Smoke Point	ASTM D 1322
90	CHEMICAL- PETROLEUM AND PRODUCTS	JetA-1,SKO	Total Sulphur	ASTM D 5453
91	CHEMICAL- PETROLEUM AND PRODUCTS	JetA-1,SKO	Total Sulphur	ASTM D4294
92	CHEMICAL- PETROLEUM AND PRODUCTS	JetA-1,SKO	Total Sulphur	IS 1448 : P 153
93	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene	Distillation : AUTO, IBP	ASTM D86

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94	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene	Apperance	IS 1459
95	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene	Density, Auto	ASTM D4052
96	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene	Distillation : AUTO, % vol Recovery at 200°C	ASTM D86
97	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene	Distillation : Manual % volume Recovery at 200°c	IS 1448 P-18
98	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene	Distillation : Manual, FBP	IS 1448 P-18
99	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene	Distillation : Manual, IBP	IS 1448 P-18
100	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene	Distillation: AUTO, FBP°C	ASTM D86
101	CHEMICAL- PETROLEUM AND PRODUCTS	LDO	Kinematic viscosity at40°C : Auto	ASTM D7042
102	CHEMICAL- PETROLEUM AND PRODUCTS	LDO, FO	Density, Auto	ASTM D 4052
103	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Appearance	IS 2796
104	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Density by Hydrometer	ASTM D 1298
105	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Density by Hydrometer	IS 1448 P16
106	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Density, Auto	ASTM D4052
107	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Distillation :Auto % evaporated at 150°C	ASTM D86
108	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Distillation :Auto % FBP	ASTM D86
109	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Distillation :Auto % Residue	ASTM D86
110	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Distillation :Auto % evaporated at 70°C	ASTM D 86
111	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Distillation :Auto % evaporated at 100°C	ASTM D 86
112	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Distillation :Manual % evaporated at 150°C	IS 1448 P-18

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113	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Distillation :Manual % Residue	IS 1448 P-18
114	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Distillation :Manual FBP°C	IS 1448 P-18
115	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Distillation(Manual) : % evaporated at 100°C	IS 1448 P-18
116	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline(Solvent washed)	Existent Gum	IP 540
117	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline(Solvent washed)	Existent Gum	IS 1448 P 29
118	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline, Kerosene	Appearance	IS 2796
119	CHEMICAL- PETROLEUM AND PRODUCTS	Power Boost Methanol	Acidity as Formic Acid	MSRR 9359
120	CHEMICAL- PETROLEUM AND PRODUCTS	Power Boost Methanol	Appearance	Visual
121	CHEMICAL- PETROLEUM AND PRODUCTS	Power Boost Methanol	Density, Relative	MSRR 9359
122	CHEMICAL- PETROLEUM AND PRODUCTS	Power Boost Methanol	Electrical Conductivity	MSRR 9435
123	CHEMICAL- PETROLEUM AND PRODUCTS	Power Boost Methanol	Total Solids	MSRR 9359