National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : PATNA LABORATORY, INDIAN OIL CORPORATION LIMITED (MD), SIPARA, PATNA, BIHAR, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6435 **Page No** 1 of 6

Validity 15/11/2022 to 14/11/2024 **Last Amended on** 23/05/2023

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	Biodiesel	Acid Value	ASTM D974
2	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel	Appearance	IOCM MGS-1 (Issue No:01, Issue Date 15.06.2016)
3	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel	Cold Filter Plugging Point	ASTM D6371
4	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel	Cold Filter Plugging Point	IS 1448 (Part 110)
5	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel	Colour	IOCM MGS-1 (Issue No:01, Issue Date 15.06.2016)
6	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel	Copper Strip Corrosion Test	IS 1448 (Part 15)
7	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel	Cu Strip Corrosion Test	ASTM D130
8	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel	Density	ASTM D1298
9	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel	Density (Auto)	ASTM D4052
10	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel	Density (Manual)	IS 1448 (Part 16)
11	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel	Flash Point (PMCC)	ASTM D93
12	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel	Flash Point (PMCC)	IS 1448 (Part 21)
13	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel	Kinematic Viscosity @ 40 Deg C	ASTM D445
14	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel	Kinematic Viscosity @ 40 Deg C (Auto)	ASTM D7042
15	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel	Kinematic Viscosity @ 40 Deg C (Manual)	IS 1448 (Part 25/Section 1)
16	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel	Total Acid Number	ASTM D664
17	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel	Total Acid Number	IS 1448 (Part 2)
18	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel	Total Sulphur	ASTM D5453

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19	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel	Total Sulphur Content	ISO 13032
20	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel	Water Content	ASTM D6304
21	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel	Water Content	IS 1448 (Part 40)
22	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel	Water Content	ISO 12937
23	CHEMICAL- PETROLEUM AND PRODUCTS	Effluent Water from Oil Water Separator	Oil & Grease Content	IS 3025 (Part 39)
24	CHEMICAL- PETROLEUM AND PRODUCTS	Ethanol	Ethanol content % vol @ 15.6 Deg C	IS 2302
25	CHEMICAL- PETROLEUM AND PRODUCTS	Ethanol	Acidity	IS 15464 (Annexure D)
26	CHEMICAL- PETROLEUM AND PRODUCTS	Ethanol	Aldehyde Content	IS 15464
27	CHEMICAL- PETROLEUM AND PRODUCTS	Ethanol	Alkalinity	IS 15464 2022
28	CHEMICAL- PETROLEUM AND PRODUCTS	Ethanol	Appearance	Visual,15464 2022
29	CHEMICAL- PETROLEUM AND PRODUCTS	Ethanol	Miscibility with water	IS 15464
30	CHEMICAL- PETROLEUM AND PRODUCTS	Ethanol	Relative density at 15/15°C	IS 15464
31	CHEMICAL- PETROLEUM AND PRODUCTS	Ethanol	Residue on Evaporation	IS 15464
32	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	APPERANCE	Visual
33	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Calculated Cetane Index	ASTM D4737
34	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Cloud Point	IS 1448[P:10/sec 1]
35	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Cold Filter Plugging Point	ASTM D6371
36	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Cold Filter Plugging Point	IS 1448 [P:110]
37	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Colour	Visual

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38	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Copper Strip Corrosion Test	ASTM D130
39	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	COPPER STRIP CORROSION TEST	IS 1448 [P:15]
40	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Density	ASTM D1298 (Hydrometer Method)
41	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Density (Auto)	ASTM D4052-18A
42	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	DENSITY (Manual)	IS1448 [P:16]
43	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Distillation (Temperature) (Manual)	IS 1448 [P:18]
44	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Distillation (% Volume Recovery) (Auto)	ASTM D86-20B
45	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Distillation (% Volume Recovery)(Manual)	IS1448 [P:18]
46	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Distillation (Temperature) (Auto)	ASTM D86-20B
47	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Flash Point (Auto)	IP 170
48	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Flash Point (Manual)	IS 1448 [P:20]
49	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Flash Point (PMCC)	IS 1448 [P:21]
50	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Kinematic Viscosity @ 100 Deg C	ASTM D7042
51	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Kinematic Viscosity @ 40 Deg C	ASTM D445
52	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Kinematic Viscosity at 40 Deg C (Auto)	ASTM D7042
53	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Kinematic Viscosity at 40 Deg C (Manual)	IS 1448 [P:25]
54	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Moisture content	ASTM D6304-20
55	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Pour Point	IS 1448 [P:10]sec 2
56	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Sulphur content	ISO13032

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57	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Sulphur Content (ASTM D 4294)	ASTM D 4294
58	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Sulphur Content (ASTM D 5453)	ASTM D 5453-19A
59	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Total Acidity (Total Acid Number)	ASTMD664
60	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasolene	RON	ASTM D2699
61	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Spirit	Apperance	IVisual
62	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Spirit	Colour	IS 2796
63	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Spirit	Copper Strip Corrosion Test	IS 1448 [P:15]
64	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Spirit	Density	ASTM D1298 (Hydrometer Method)
65	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Spirit	Density (Auto)	ASTM D 4052-18A
66	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Spirit	Density (Hydrometer method)	IS 1448 [P:16]
67	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Spirit	Distillation (Temperature,Auto)	ASTM D86-20B
68	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Spirit	Distillation (% Volume Recovered, Auto)	ASTM D86-20B
69	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Spirit	Distillation (% Volume Recovery, Manual)	IS 1448 [P:18]
70	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Spirit	Distillation (Temperature, Manual)	IS 1448 [P:18]
71	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Spirit	Exsistent Gum	IS 1448 [P:29]
72	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Spirit	Moisture Content	ASTM D6304
73	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR SPIRIT	Sulphur Content	ISO13032
74	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Spirit	Sulphur Content (ASTM D4294)	ASTM D4294
75	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Spirit	Sulphur Content (ASTM D5453)	ASTM D5453-19A

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76	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Sprit	Research Octane Number	IS 1448 [P:27]
77	CHEMICAL- PETROLEUM AND PRODUCTS	n-Methyl Aniline	Flash point (PMCC)	ASTM D93
78	CHEMICAL- PETROLEUM AND PRODUCTS	n-Methyl Aniline	Appearance	5527 20.12.2020
79	CHEMICAL- PETROLEUM AND PRODUCTS	n-Methyl Aniline	Colour	I5527 20.12.2020
80	CHEMICAL- PETROLEUM AND PRODUCTS	n-Methyl Aniline	Relative Density @15.6 °C	ASTM D-1298
81	CHEMICAL- PETROLEUM AND PRODUCTS	PCK	Sulphur content	ISO13032
82	CHEMICAL- PETROLEUM AND PRODUCTS	Superior Kerosene Oil	Apperance	IS 1459
83	CHEMICAL- PETROLEUM AND PRODUCTS	Superior Kerosene Oil	Colour	IOCM MGS-1
84	CHEMICAL- PETROLEUM AND PRODUCTS	Superior Kerosene Oil	Copper Strip Corrosion Test	IS 1448 [P:15]
85	CHEMICAL- PETROLEUM AND PRODUCTS	Superior Kerosene Oil	Density	ASTM D1298 (Hydrometer Method)
86	CHEMICAL- PETROLEUM AND PRODUCTS	Superior Kerosene Oil	Density (Manual)	IS 1448 [P:16]
87	CHEMICAL- PETROLEUM AND PRODUCTS	Superior Kerosene Oil	Density(Auto)	ASTM D4052-18A
88	CHEMICAL- PETROLEUM AND PRODUCTS	Superior Kerosene Oil	Distillation (% Volume Recovered) (Auto)	ASTM D86-20B
89	CHEMICAL- PETROLEUM AND PRODUCTS	Superior Kerosene Oil	Distillation (% Volume Recovered) (Manual)	IS 1448 [P:18]
90	CHEMICAL- PETROLEUM AND PRODUCTS	Superior Kerosene Oil	Distillation (Temperature) (Manual)	IS 1448 [P:18]
91	CHEMICAL- PETROLEUM AND PRODUCTS	Superior Kerosene Oil	Distillation (Temperature)(Auto)	ASTM D86-20B
92	CHEMICAL- PETROLEUM AND PRODUCTS	Superior Kerosene Oil	Flash Point (Abel, Manual)	IS 1448 [P:20]
93	CHEMICAL- PETROLEUM AND PRODUCTS	Superior Kerosene Oil	Flash Point (Abel,Auto)	IP 170
94	CHEMICAL- PETROLEUM AND PRODUCTS	Superior Kerosene Oil	Smoke Point	IS 1448 [P:31]

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95	CHEMICAL- PETROLEUM AND PRODUCTS	Superior Kerosene Oil	Sulphur Content (ASTM D5453)	ASTM D5453-19A
96	CHEMICAL- PETROLEUM AND PRODUCTS	Superior Kerosene Oil	Sulphur Content (D4294)	ASTM D4294