National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : INDIAN OIL CORPORATION LIMITED (MD), PARADEEP LABORATORY, PARADEEP TERMINAL, PARADIP, JAGATSINGHAPUR, ODISHA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5280 **Page No** 1 of 7

Validity 10/05/2022 to 09/05/2024 **Last Amended on** 22/02/2023

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	Automotive Diesel Fuel	Appearance (Visual)	PDP-WI/32
2	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel	Ash Content	ASTM D482- 19
3	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel	Auto Flash Point (Abel)	IP 170
4	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel	Auto Kinematic Viscosity	ASTM D7042
5	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel	Cetane Index (Calculated)	ASTM D4737-10
6	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel	Color (Visual)	PDP-WI/33
7	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel	Copper Strip Corrosion Test	ASTM D130-19
8	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel	Copper Strip Corrosion Test	IS1448 [P:15]
9	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel	Density by Digital density meter	ASTM D4052 – 18a
10	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel	Density by Hydrometer	ASTM D1298
11	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel	Density by Hydrometer	IS1448 [P:16]
12	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel	Distillation : Auto	ASTM D86-20b
13	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel	Distillation : Auto	ASTM D86-20b
14	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel	Distillation: Manual	ASTM D86-20b
15	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel	Distillation: Manual	ASTM D86-20b
16	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel	Distillation: Manual	IS1448 [P:18]
17	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel	Distillation: Manual	IS1448 [P:18]
18	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel	Flash Point (PMCC)	IS1448 [P:21]

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19	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel	Flash Point (Abel)	IS1448 [P:20]
20	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel	Flash Point (PMCC)	ASTM D93 - 19
21	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel	Kinematic Viscosity @40°C	ASTM D445-19
22	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel	Kinematic Viscosity @40°C	IS1448 [P:25]
23	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel	Pour Point	IS1448 [P:10]
24	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel	Total Acid Number	ASTM D664
25	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel	Total Sulfur by EDXRF	ISO 13032
26	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel	Total Sulfur by UV-Fluorescence	ASTM D5453-19
27	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel	Water Content by Coulometric titration	ASTM D6304 - 20
28	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel	Acid Value	ASTM D664
29	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel	Appearance	PDP-WI/32 (Issue No: 3, Issue Date: 25.03.2022)
30	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel	Auto Kinematic Viscosity	ASTM D7042
31	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel	Cold Filter Plugging Point	ASTM D6371
32	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel	Cold Filter Plugging Point	IS 1448 (Part 110)
33	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel	Copper Strip Corrosion Test	IS 1448 (Part 15)
34	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel	Density by Digital Density Meter	ASTM D4052
35	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel	Density by Hydrometer	IS 1448 (Part 16)
36	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel	Flash Point (PMCC)	IS 1448 (Part 21)
37	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel	Kinematic Viscosity @40°C	IS 1448 (Part 25/Section 1)

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38	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel	Water Content by Coulometric Titration	IS 1448 (Part 182)
39	CHEMICAL- PETROLEUM AND PRODUCTS	Biodiesel	Water Content by Coulometric Titration	ISO 12937
40	CHEMICAL- PETROLEUM AND PRODUCTS	Ethanol	Acidity	IS 15464
41	CHEMICAL- PETROLEUM AND PRODUCTS	Ethanol	Aldehyde Content	IS 15464
42	CHEMICAL- PETROLEUM AND PRODUCTS	Ethanol	Alkalinity	IS 15464
43	CHEMICAL- PETROLEUM AND PRODUCTS	Ethanol	Appearance	PDP-WI/32 (Issue No: 3, Issue Date: 25.03.2022)
44	CHEMICAL- PETROLEUM AND PRODUCTS	Ethanol	Ethanol Content	IS 2302
45	CHEMICAL- PETROLEUM AND PRODUCTS	Ethanol	Miscibility With Water	IS 15464
46	CHEMICAL- PETROLEUM AND PRODUCTS	Ethanol	Residue on Evaporation	IS 15464
47	CHEMICAL- PETROLEUM AND PRODUCTS	Ethanol	Specific Gravity	IS 15464
48	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil	Acid Number	ASTM D664
49	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil	Ash Content	ISO 6245
50	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil	Density by Hydrometer	IS1448 [P:16]
51	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil	Density by Hydrometer	ISO 3675
52	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil	Flash Point (PMCC)	IS1448 [P:21]
53	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil	Flash Point (PMCC)	ISO 2719
54	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil	Kinematic Viscosity @50°C	IS1448 [P:25]
55	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil	Kinematic Viscosity @50°C	ISO 3104
56	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil	Pour Point	ISO 3016

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57	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil	Sediment by Extraction	IS1448 [P:30]
58	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil	Total Sediment Aged	ISO 10307
59	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil	Total Sulfur by EDXRF	ASTM D4294-16
60	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil	Water Content	IS1448 [P:40]
61	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil	Water Content	ISO 3733
62	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene	Appearance (Visual)	PDP-WI/32
63	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene	Auto Flash Point (Abel)	IP 170
64	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene	Color (Saybolt)	IS1448 [P:14]
65	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene	Color (Visual)	PDP-WI/33
66	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene	Copper Strip Corrosion Test	ASTM D130-19
67	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene	Copper Strip Corrosion Test	IS1448 [P:15]
68	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene	Density by Digital density meter	ASTM D4052 – 18a
69	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene	Density by Hydrometer	IS1448 [P:16]
70	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene	Distillation : Auto	ASTM D86-20b
71	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene	Distillation : Auto	ASTM D86-20b
72	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene	Distillation: Manual	ASTM D86-20b
73	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene	Distillation: Manual	ASTM D86-20b
74	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene	Distillation: Manual	IS1448 [P:18]
75	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene	Distillation: Manual	IS1448 [P:18]

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76	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene	Flash Point (Abel)	IS1448 [P:20]
77	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene	Smoke Point	IS1448 [P:31]
78	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene	Total Sulfur by EDXRF	ASTM D4294-16
79	CHEMICAL- PETROLEUM AND PRODUCTS	Light Diesel Oil	Appearance (Visual)	PDP-WI/32
80	CHEMICAL- PETROLEUM AND PRODUCTS	Light Diesel Oil	Density by Hydrometer	IS1448 [P:16]
81	CHEMICAL- PETROLEUM AND PRODUCTS	Light Diesel Oil	Flash Point (PMCC)	IS1448 [P:21]
82	CHEMICAL- PETROLEUM AND PRODUCTS	Light Diesel Oil	Kinematic Viscosity @40°C	IS1448 [P:25]
83	CHEMICAL- PETROLEUM AND PRODUCTS	Light Diesel Oil	Pour Point	IS1448 [P:10]
84	CHEMICAL- PETROLEUM AND PRODUCTS	Light Diesel Oil	Total Sulfur by EDXRF	ASTM D4294-16
85	CHEMICAL- PETROLEUM AND PRODUCTS	Light Diesel Oil	Water Content	IS1448 [P:40]
86	CHEMICAL- PETROLEUM AND PRODUCTS	Low Sulphur High Flash HSD	Acid Number	ASTM D664
87	CHEMICAL- PETROLEUM AND PRODUCTS	Low Sulphur High Flash HSD	Appearance (Visual)	ASTM D4176-21
88	CHEMICAL- PETROLEUM AND PRODUCTS	Low Sulphur High Flash HSD	Ash Content	ASTM D482- 19
89	CHEMICAL- PETROLEUM AND PRODUCTS	Low Sulphur High Flash HSD	Auto Kinematic Viscosity	ASTM D7042
90	CHEMICAL- PETROLEUM AND PRODUCTS	Low Sulphur High Flash HSD	Cetane Index (Calculated)	ASTM D4737-10
91	CHEMICAL- PETROLEUM AND PRODUCTS	Low Sulphur High Flash HSD	Cloud Point	ASTM D2500-17a
92	CHEMICAL- PETROLEUM AND PRODUCTS	Low Sulphur High Flash HSD	Cold Filter Plugging Point	ASTM D6371- 17a
93	CHEMICAL- PETROLEUM AND PRODUCTS	Low Sulphur High Flash HSD	Color (ASTM)	ASTM D1500 - 12
94	CHEMICAL- PETROLEUM AND PRODUCTS	Low Sulphur High Flash HSD	Copper Strip Corrosion Test	ASTM D130-19

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95	CHEMICAL- PETROLEUM AND PRODUCTS	Low Sulphur High Flash HSD	Density by Digital density meter	ASTM D4052 – 18a
96	CHEMICAL- PETROLEUM AND PRODUCTS	Low Sulphur High Flash HSD	Density by Hydrometer	ASTM D1298
97	CHEMICAL- PETROLEUM AND PRODUCTS	Low Sulphur High Flash HSD	Distillation : Auto	ASTM D86-20b
98	CHEMICAL- PETROLEUM AND PRODUCTS	Low Sulphur High Flash HSD	Distillation : Auto	ASTM D86-20b
99	CHEMICAL- PETROLEUM AND PRODUCTS	Low Sulphur High Flash HSD	Distillation: Manual	ASTM D86-20b
100	CHEMICAL- PETROLEUM AND PRODUCTS	Low Sulphur High Flash HSD	Distillation: Manual	ASTM D86-20b
101	CHEMICAL- PETROLEUM AND PRODUCTS	Low Sulphur High Flash HSD	Flash Point (PMCC)	ASTM D93 - 19
102	CHEMICAL- PETROLEUM AND PRODUCTS	Low Sulphur High Flash HSD	Kinematic Viscosity @40°C	ASTM D445-19
103	CHEMICAL- PETROLEUM AND PRODUCTS	Low Sulphur High Flash HSD	Particulate Contamination	ASTM D6217 - 21
104	CHEMICAL- PETROLEUM AND PRODUCTS	Low Sulphur High Flash HSD	Pour Point	ASTM D97 – 17
105	CHEMICAL- PETROLEUM AND PRODUCTS	Low Sulphur High Flash HSD	Total Sulfur by EDXRF	ISO 13032
106	CHEMICAL- PETROLEUM AND PRODUCTS	Low Sulphur High Flash HSD	Total Sulfur by UV-Fluorescence	ASTM D5453-19
107	CHEMICAL- PETROLEUM AND PRODUCTS	Low Sulphur High Flash HSD	Water and sediment	ASTM D2709- 16
108	CHEMICAL- PETROLEUM AND PRODUCTS	Low Sulphur High Flash HSD	Water Content by Coulometric titration	ASTM D6304 - 20
109	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Appearance (Visual)	PDP-WI/32
110	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Color (Visual)	PDP-WI/33
111	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Copper Strip Corrosion Test	ASTM D130-19
112	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Copper Strip Corrosion Test	IS1448 [P:15]
113	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Density by Digital density meter	ASTM D4052 – 18a

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114	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Density by Hydrometer	ASTM D1298
115	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Density by Hydrometer	IS1448 [P:16]
116	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Distillation : Auto	ASTM D86-20b
117	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Distillation : Auto	ASTM D86-20b
118	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Distillation: Manual	ASTM D86-20b
119	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Distillation: Manual	ASTM D86-20b
120	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Distillation: Manual	IS1448 [P:18]
121	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Distillation: Manual	IS1448 [P:18]
122	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Gum Content	ASTM D381
123	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Gum Content	IS1448 [P:29]
124	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Total Sulfur by EDXRF	ISO 13032
125	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Total Sulfur by UV-Fluorescence	ASTM D5453-19
126	CHEMICAL- PETROLEUM AND PRODUCTS	N-Methylaniline	Appearance	PDP-WI/32 (Issue No: 3, Issue Date: 25.03.2022)
127	CHEMICAL- PETROLEUM AND PRODUCTS	N-Methylaniline	Colour (Visual)	DP-WI/33 (Issue No:3, Issue Date: 25.03.2022)
128	CHEMICAL- PETROLEUM AND PRODUCTS	N-Methylaniline	Flash Point (PMCC)	ASTM D93
129	CHEMICAL- PETROLEUM AND PRODUCTS	N-Methylaniline	Relative Density @15.6 °C	ASTM D1298
130	CHEMICAL- POLLUTION & ENVIRONMENT	Effluent Water	Oil & Grease Content	IS 3025 (Part 39)