National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : QUALITY CONTROL LABORATORY, GUWAHATI REFINERY, INDIAN OIL CORPORATION LIMITED, P.O. NOONMATI, GUWAHATI, KAMRUP (M), ASSAM, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5311 **Page No** 1 of 8

Validity 31/03/2022 to 30/03/2024 **Last Amended on** -

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 (HSD)	Acidity (Inorganic)	IS 1448 (Part 2)
2	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel (HSD)	Acidity (Total)	IS 1448 (Part 2)
3	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel (HSD)	Ash Content	IS 1448 (Part 4)
4	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel (HSD)	Carbon Residue (Ramsbottom or Micro) on 10% residue	IS 1448 (Part 8)
5	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel (HSD)	Cetane Index	ASTM D 4737
6	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel (HSD)	Cetane Number	IS:1448 (Part 9)
7	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel (HSD)	Cold Filter Plugging Point (CFPP)	IS 1448 (Part 110)
8	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel (HSD)	Copper Strip Corrosion, 3 hr @ 50°C	IS 1448 (Part 15)
9	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel (HSD)	Density @ 15°C	IS 1448 (Part 16)
10	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel (HSD)	Distillation (95% Recovery v/v)	IS 1448 (Part 18)
11	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel (HSD)	Flash Point (ABEL)	IS 1448 (Part 20)
12	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel (HSD)	Kinematic Viscosity @ 40 °C	IS 1448 (Part 25)
13	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel (HSD)	Lubricity	ISO12156
14	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel (HSD)	Oxidation Stability	ASTM D 2274
15	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel (HSD)	Polycyclic Aromatic Hydrocarbon (PAH)	IP 391
16	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel (HSD)	Pour Point	IS 1448 (Part 10)
17	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel (HSD)	Total Contamination	EN 12662
18	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel (HSD)	Total Sulphur	ASTM D 2622

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5311 **Page No** 2 of 8

Validity 31/03/2022 to 30/03/2024 **Last Amended on** -

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
19	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel (HSD)	Total Sulphur	ASTM D 5453
20	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel (HSD)	Visual Appearance	VISUAL/ASTM D 4176
21	CHEMICAL- PETROLEUM AND PRODUCTS	Automotive Diesel Fuel (HSD)	Water Content	ISO12937
22	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (ATF)	Visual Appearance	Visual/D 4176
23	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (ATF)	Aromatics Content	IS 1448 (Part 23)
24	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (ATF)	Colour (Saybolt)	ASTM D 156
25	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (ATF)	Copper Strip Corrosion, 2 hr @ 100 °C	IS 1448 (Part 15)
26	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (ATF)	Density @15°C	IS 1448 (Part 16)
27	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (ATF)	Distillation (10% Recovery)	IS 1448 (Part 18)
28	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (ATF)	Distillation (50% Recovery)	IS 1448 (Part 18)
29	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (ATF)	Distillation (90% Recovery)	IS:1448 (P:18)
30	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (ATF)	Distillation (FBP)	IS:1448 (Part 18)
31	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (ATF)	Distillation (IBP)	IS 1448 (Part 18)
32	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (ATF)	Distillation (Loss)	IS 1448 (Part 18)
33	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (ATF)	Distillation (Residue)	IS 1448 (Part 18)
34	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (ATF)	Doctor Test	IS 1448 (Part 19)
35	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (ATF)	Electrical Conductivity	ISO 6297
36	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (ATF)	Existent Gum	IS 1448 (Part 29)
37	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (ATF)	Flash Point (ABEL)	IS 1448 (Part 20)

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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5311	**Page No**	3 of 8
Validity	31/03/2022 to 30/03/2024	**Last Amended on**	-

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38	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (ATF)	Freezing Point	IS 1448 (Part 11)
39	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (ATF)	JFTOT (Filter Pressure Deferential)	ASTM D 3241
40	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (ATF)	JFTOT (Tube Deposit Rating)	ASTM D 3241
41	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (ATF)	Kinematic Viscosity @ -20°C	IS 1448 (Part 25)
42	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (ATF)	Lubricity (BOCLE)	ASTM D 5001
43	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (ATF)	Mercaptan Sulphur	IS 1448 (Part 109)
44	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (ATF)	MicroSeparometer (MSEP) with SDA	IS 1448 (Part 142)
45	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (ATF)	Naphthalenes	IS 1448 (Part 118)
46	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (ATF)	Particle Count (=21)	IP 565
47	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (ATF)	Particle Count (=25)	IP 565
48	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (ATF)	Particle Count (=30)	IP 565
49	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (ATF)	Particle Count (=6)	IP 565
50	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (ATF)	Particle Count(=4)	IP 565
51	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (ATF)	Particle Size Channel Count (=14)	IP 565
52	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (ATF)	Particulate Contamination	ASTM D 5452
53	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (ATF)	Silver Strip Corrosion, 4 hr @ 50°C	IS 1571 Annex B
54	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (ATF)	Smoke Point with Naphthalenes	IS 1448 (Part 31)
55	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (ATF)	Specific energy	ASTM D 3338
56	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (ATF)	Total Acidity	IS 1448 (Part 113)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5311 **Page No** 4 of 8

Validity 31/03/2022 to 30/03/2024 **Last Amended on** -

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
57	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (ATF)	Total Sulphur	ASTM D 4294
58	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (ATF)	Water Reaction a) Interface rating b) Separation rating	IS 1448 (Part 42)
59	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline (MS)	Aromatics Content	IS 1448 (Part 23)
60	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline (MS)	Benzene Content	ASTM D 3606
61	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline (MS)	Colour	Visual/ASTM D 4176
62	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline (MS)	Copper strip corrosion, 3 hr @ 50°C	IS 1448 (Part 15)
63	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline (MS)	Density @15°C	IS 1448 (Part 16)
64	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline (MS)	Distillation (% Evaporated at 100°C)	IS 1448 (Part 18)
65	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline (MS)	Distillation (% Evaporated at 150°C)	IS 1448 (Part 18)
66	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline (MS)	Distillation (%Evaporated@70°C)	IS 1448 (Part 18)
67	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline (MS)	Distillation (FBP)	IS 1448 (Part 18)
68	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline (MS)	Distillation (Loss)	IS 1448 (Part 18)
69	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline (MS)	Distillation (Residue)	IS 1448 (Part 18)
70	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline (MS)	Engine Intake System Cleanliness	MFA Used
71	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline (MS)	Gum Content (Solvent Washed)	IS 1448 (Part 29)
72	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline (MS)	Lead Content	ASTM D 5059
73	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline (MS)	Motor Octane Number (MON)	IS 1448 (Part 26)
74	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline (MS)	Olefin Content	IS 1448 (Part 23)
75	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline (MS)	Oxidation Stability (Induction period)	IS 1448 (Part 28)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5311 **Page No** 5 of 8

Validity 31/03/2022 to 30/03/2024 **Last Amended on** -

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
76	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline (MS)	Oxygen Content	ASTM D 4815
77	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline (MS)	Oxygenates (MTBE)	ASTM D 4815
78	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline (MS)	Reid Vapour Pressure (RVP)	IS 1448 (Part 39)
79	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline (MS)	Research Octane Number (RON)	IS 1448 (Part 27)
80	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline (MS)	Total Sulphur	ASTM D 2622
81	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline (MS)	Total Sulphur	ASTM D 5453
82	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline (MS)	Vapour Lock Index (VLI)-Other Months	Calculated
83	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline (MS)	Vapour Lock Index (VLI)-Summer	Calculated
84	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline (MS)	Visual Appearance	Visual/ASTM D 4176e
85	CHEMICAL- PETROLEUM AND PRODUCTS	Raw Petroleum Coke (RPC)	Ash Content	IS 1448 (Part 126)
86	CHEMICAL- PETROLEUM AND PRODUCTS	Raw Petroleum Coke (RPC)	Density (Vibrated Bulk)	IS 1448 (Part 130)
87	CHEMICAL- PETROLEUM AND PRODUCTS	Raw Petroleum Coke (RPC)	Fixed Carbon	IS: 8502
88	CHEMICAL- PETROLEUM AND PRODUCTS	Raw Petroleum Coke (RPC)	Moisture Content (after Initial drying)	IS 1448 (Part 132)
89	CHEMICAL- PETROLEUM AND PRODUCTS	Raw Petroleum Coke (RPC)	Moisture Content (as received)	IS 1448 (Part 132)
90	CHEMICAL- PETROLEUM AND PRODUCTS	Raw Petroleum Coke (RPC)	Sulphur	ASTM D4294
91	CHEMICAL- PETROLEUM AND PRODUCTS	Raw Petroleum Coke (RPC)	Total Moisture Content	IS 1448 (Part 132)
92	CHEMICAL- PETROLEUM AND PRODUCTS	Raw Petroleum Coke (RPC)	Volatile Matter	ASTM D 7582
93	CHEMICAL- PETROLEUM AND PRODUCTS	SRN	Aromatic Content	IS 1448 (Part 23)
94	CHEMICAL- PETROLEUM AND PRODUCTS	SRN	Ash Content	IS 1448 (Part 4)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5311 **Page No** 6 of 8

Validity 31/03/2022 to 30/03/2024 **Last Amended on** -

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95	CHEMICAL- PETROLEUM AND PRODUCTS	SRN	Benzene	ASTM D 3606
96	CHEMICAL- PETROLEUM AND PRODUCTS	SRN	C: H Ratio	Calculation
97	CHEMICAL- PETROLEUM AND PRODUCTS	SRN	Chloride	ASTM D 4929
98	CHEMICAL- PETROLEUM AND PRODUCTS	SRN	Copper strip corrosion, 3 hrs@50°C	IS 1448 (Part 15)
99	CHEMICAL- PETROLEUM AND PRODUCTS	SRN	Density @ 15°C	IS 1448 (Part 16)
100	CHEMICAL- PETROLEUM AND PRODUCTS	SRN	Distillation (10%)	IS 1448 (Part 18)
101	CHEMICAL- PETROLEUM AND PRODUCTS	SRN	Distillation (5%V)	IS 1448 (Part 18)
102	CHEMICAL- PETROLEUM AND PRODUCTS	SRN	Distillation (50%V)	IS 1448 (Part 18)
103	CHEMICAL- PETROLEUM AND PRODUCTS	SRN	Distillation (90%V)	IS 1448 (Part 18)
104	CHEMICAL- PETROLEUM AND PRODUCTS	SRN	Distillation (95%V)	IS 1448 (Part 18)
105	CHEMICAL- PETROLEUM AND PRODUCTS	SRN	Distillation (FBP)	IS 1448 (Part 18)
106	CHEMICAL- PETROLEUM AND PRODUCTS	SRN	Distillation (IBP)	IS 1448 (Part 18)
107	CHEMICAL- PETROLEUM AND PRODUCTS	SRN	Distillation (Loss)	IS 1448 (Part 18)
108	CHEMICAL- PETROLEUM AND PRODUCTS	SRN	Distillation (Residue)	IS 1448 (Part 18)
109	CHEMICAL- PETROLEUM AND PRODUCTS	SRN	Flash Point	IS 1448 (Part 20)
110	CHEMICAL- PETROLEUM AND PRODUCTS	SRN	Gross Calorific Value	IS 1448 (Part 7)
111	CHEMICAL- PETROLEUM AND PRODUCTS	SRN	Lead Content as Pb	IS 1448 (Part 80)
112	CHEMICAL- PETROLEUM AND PRODUCTS	SRN	Naphthenes	ASTM D 6730
113	CHEMICAL- PETROLEUM AND PRODUCTS	SRN	Net Calorific Value	IS 1448 (Part 7)

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5311 **Page No** 7 of 8

Validity 31/03/2022 to 30/03/2024 **Last Amended on** -

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114	CHEMICAL- PETROLEUM AND PRODUCTS	SRN	Olefin Content	IS 1448 (Part 23)
115	CHEMICAL- PETROLEUM AND PRODUCTS	SRN	Paraffin Content	ASTM D 6730
116	CHEMICAL- PETROLEUM AND PRODUCTS	SRN	Reid Vapour Pressure (RVP)@37.8°C	IS 1448 (Part 39)
117	CHEMICAL- PETROLEUM AND PRODUCTS	SRN	Research Octane Number (RON)	IS 1448 (Part 27)
118	CHEMICAL- PETROLEUM AND PRODUCTS	SRN	Saybolt Color	IS 1448 (Part 14)
119	CHEMICAL- PETROLEUM AND PRODUCTS	SRN	Total Sulphur	ASTM D 2622
120	CHEMICAL- PETROLEUM AND PRODUCTS	SRN	Total Sulphur	ASTM D 5453
121	CHEMICAL- PETROLEUM AND PRODUCTS	SRN	Visual Appearance	Visual/ASTM D 4176
122	CHEMICAL- PETROLEUM AND PRODUCTS	Superior Kerosene-PDS	Total Sulphur	ASTM D 4294
123	CHEMICAL- PETROLEUM AND PRODUCTS	Superior Kerosene-PDS	Acidity (Inorganic)	ASTMD 974
124	CHEMICAL- PETROLEUM AND PRODUCTS	Superior Kerosene-PDS	Burning Quality, Bloom on Glass Chimney	Not darker than grey
125	CHEMICAL- PETROLEUM AND PRODUCTS	Superior Kerosene-PDS	Burning Quality, Char Value, Oil Consumed	IS 1448 (Part 5)
126	CHEMICAL- PETROLEUM AND PRODUCTS	Superior Kerosene-PDS	Colour (Saybolt)	IS 1448 (Part 14)
127	CHEMICAL- PETROLEUM AND PRODUCTS	Superior Kerosene-PDS	Copper Strip Corrosion, 3 hr @ 50°C	IS 1448 (Part 15)
128	CHEMICAL- PETROLEUM AND PRODUCTS	Superior Kerosene-PDS	Density @15°C	IS 1448 (Part 16)
129	CHEMICAL- PETROLEUM AND PRODUCTS	Superior Kerosene-PDS	Distillation (FBP)	IS 1448 (Part 18)
130	CHEMICAL- PETROLEUM AND PRODUCTS	Superior Kerosene-PDS	Distillation-%Recovered below 200°C	IS 1448 (Part 18)
131	CHEMICAL- PETROLEUM AND PRODUCTS	Superior Kerosene-PDS	Flash Point (ABEL)	IS:1448 (Part 20)
132	CHEMICAL- PETROLEUM AND PRODUCTS	Superior Kerosene-PDS	Smoke Point	IS 1448 (Part 31)

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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5311	**Page No**	8 of 8
Validity	31/03/2022 to 30/03/2024	**Last Amended on**	-

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133	CHEMICAL- PETROLEUM AND PRODUCTS	Superior Kerosene-PDS	Visual Appearance	VISUAL/ASTM D 4176