



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



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 / 6

Validity 31/03/2019 to 30/03/2021 Last Amended on 12/04/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
Permanent Facility					
1	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Aromatics Content	IS 1448 (Part 23): 2004	5 Vol% to 99 Vol%
2	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Colour (Saybolt)	ASTM D 156: 2015	-16 to 30
3	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Copper Strip Corrosion, 2 hr @ 100 deg. C	IS 1448 (Part 15): 2010	Qualitative(Rating range: 1a to 4c)
4	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Density @ 15 deg. C	IS 1448 (Part 16): 2014	600 Kg/m ³ to 1100 Kg/m ³
5	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Distillation	IS 1448 (Part 18): 2010	20 °C to 400 °C
6	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Doctor Test	IS 1448 (Part 19): 2002	Qualitative
7	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Electrical Conductivity	IP 274: 2009	1 pS/m to 2000 pS/m
8	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Existent Gum	IS 1448 (Part 29): 2004	0.5 mg/100ml to 10 mg/100ml
9	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Flash Point (ABEL)	IS 1448 (Part 20): 2013	10 °C to 65 °C



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10	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Freezing Point	IS 1448 (Part 11): 2016	-60 °C to 20 °C
11	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	JFTOT (Filter Pressure Differential)	ASTM D 3241-17a: 2017	Qualitative(DP = Max 25 mmHg)
12	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	JFTOT (Tube Deposit Rating)	ASTM D 3241-17a: 2017	Qualitative
13	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Kinematic Viscosity @ - 20 deg. C	IS 1448 (Part 25): 2013	0.2 cSt to 300 cSt
14	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Lubricity (BOCLE)	ASTM D 5001-10: 2014	0.50 mm to 1.00 mm
15	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Mercaptan Sulphur	IS 1448 (Part 109): 2004	0.0003 % mass to 0.01 % mass
16	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	MicroSeparometer (MSEP)	IS 1448 (Part 142): 2006	50 to 100
17	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Naphthalene Content	IS 1448 (Part 118): 2002	0.03 % vol to 4.25 % vol
18	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Particulate Contamination	ASTM 5452-08: 2012	0.1 mg/L to 1.5 mg/L
19	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Silver Strip Corrosion, 4 hr @ 50 deg. C	IP 227: 1999	Qualitative(Rating range: 0 to 4)



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20	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Smoke Point	ASTM D 1322: 2015	11 mm to 50 mm
21	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Total Acidity	IS 1448 (Part 113): 2010	0.001 mgKOH/g to 0.100 mgKOH/g
22	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Total Sulphur	ASTM D 4294-10: 2016	17 mg/kg to 46000 mg/kg
23	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Water Reactiona) Interface ratingb) Separation rating	IS 1448 (Part 42): 2015	Qualitative(1 to 4 rating)
24	CHEMICAL- PETROLEUM AND PRODUCTS	HSD	Acidity (Inorganic)	IS 1448 (Part 2): 2007	Qualitative(Range: 0.01 - 250 mgKOH/g)
25	CHEMICAL- PETROLEUM AND PRODUCTS	HSD	Acidity (Total)	IS 1448 (Part 2): 2007	0.01 mgKOH/g to 250 mgKOH/g
26	CHEMICAL- PETROLEUM AND PRODUCTS	HSD	Ash Content	IS 1448 (Part 4): 2013	0.005 % mass to 0.02 % mass
27	CHEMICAL- PETROLEUM AND PRODUCTS	HSD	Carbon Residue (Ramsbottom or Micro) on 10% residue	IS 1448 (Part 8): 2012	0.03 % mass to 20 % mass
28	CHEMICAL- PETROLEUM AND PRODUCTS	HSD	Cetane Index	ASTM D 4737: 2010	32.5 to 65.5
29	CHEMICAL- PETROLEUM AND PRODUCTS	HSD	Cold Filter Plugging Point (CFPP)	IS 1448 (Part 110): 2013	-38 °C to 50 °C



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30	CHEMICAL- PETROLEUM AND PRODUCTS	HSD	Copper strip Corrosion, 3 hr @ 50 deg.C	IS 1448 (Part 15): 2010	Qualitative(Rating Range: 1a to 4c)
31	CHEMICAL- PETROLEUM AND PRODUCTS	HSD	Density @ 15 deg. C	IS 1448 (Part 16): 2014	600 Kg/m ³ to 1100 Kg/m ³
32	CHEMICAL- PETROLEUM AND PRODUCTS	HSD	Distillation	IS 1448 (Part 18): 2010	20 °C to 400 °C
33	CHEMICAL- PETROLEUM AND PRODUCTS	HSD	Flash Point (ABEL)	IS 1448 (Part 20): 2013	10 °C to 65 °C
34	CHEMICAL- PETROLEUM AND PRODUCTS	HSD	Kinematic Viscosity @ 40 deg. C	IS 1448 (Part 25): 2013	0.2 cSt to 300 cSt
35	CHEMICAL- PETROLEUM AND PRODUCTS	HSD	Polycyclic Aromatic Hydrocarbon (PAH)	IP 391: 2007	0.1 % mass to 12 % mass
36	CHEMICAL- PETROLEUM AND PRODUCTS	HSD	Pour Point	IS 1448 (Part 10): 2012	-15 °C to 42 °C
37	CHEMICAL- PETROLEUM AND PRODUCTS	HSD	Total Contamination	EN 12662: 2008	6 mg/kg to 30 mg/kg
38	CHEMICAL- PETROLEUM AND PRODUCTS	HSD	Total Sulphur	ASTM D 4294-10: 2016	17 mg/kg to 46000 mg/kg
39	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Aromatics Content	IS 1448 (Part 23): 2010	5 %Vol to 99 %Vol



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40	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Copper strip corrosion, 3 hr @ 50 deg. C	IS 1448 (Part 15): 2010	Qualitative(Rating range: 1a to 4c)
41	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Density @ 15 deg. C	IS 1448 (Part 16): 2014	600 Kg/m ³ to 1100 Kg/m ³
42	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Distillation	IS 1448 (Part 18): 2010	20 °C to 400 °C
43	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Gum Content (Solvent washed)	IS 1448 (Part 29): 2011	0.5 to 10
44	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Olefin Content	IS 1448 (Part 23): 2010	0.5 %Vol to 55 %Vol
45	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Oxidation Stability (Induction period)	IS 1448 (Part 28): 2008	Qualitative(Range: 360 minute (Min))
46	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Reid Vapour Pressure (RVP)	IS 1448 (Part 39): 2012	7 kPa to 100 kPa
47	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Research Octane Number (RON)	IS 1448 (Part 27): 2018	40 to 100
48	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Total Sulphur	ASTM D 5453: 2016	1 mg/Kg to 8000 mg/Kg
49	CHEMICAL- PETROLEUM AND PRODUCTS	RPC	Ash Content	IS 1448 (Part 126): 2010	0.1 % mass to 0.45 % mass



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50	CHEMICAL-PETROLEUM AND PRODUCTS	RPC	Moisture Content	IS 1448 (Part 132): 2013	0.05 % mass to 2.0 % mass
51	CHEMICAL-PETROLEUM AND PRODUCTS	RPC	Volatile Matter	ASTM D 7582: 2015	0.1 to 15.0
52	CHEMICAL-PETROLEUM AND PRODUCTS	SRN	Density @ 15 deg. C	IS 1448 (Part 16): 2014	600 Kg/m ³ to 1100 Kg/m ³
53	CHEMICAL-PETROLEUM AND PRODUCTS	SRN	Distillation	IS 1448 (Part 18): 2010	20 °C to 400 °C