National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : MUMBAI REFINERY LABORATORY, HINDUSTAN PETROLEUM CORPORATION LTD., B D PATIL MARG, MUMBAI, MAHARASHTRA, 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	ATF	Electrical Conductivity	ISO 6297
2	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Freezing Point by Auto Method	ASTM D 5972
3	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Freezing Point by Manual Method	IS 1448 (Part 11)
4	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Kinematic Viscosity at -20.0 deg.C	ASTM D 7042
5	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Kinematic viscosity at -20.0 deg.C	IS 1448 (Part 25)
6	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Lubricity, WSD (BOCLE)	ASTM D 5001
7	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Micro Separometer Rating (MSEP)	IS 1448 (Part 142)
8	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Naphthalene Content	IS 1448 (Part 118)
9	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Particulate Contamination	ASTM D 5452
10	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Particulate, cumulative channel particle counts	IP 577
11	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Silver Strip Corrosion	Annex B of IS 1571
12	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Smoke Point	IS 1448 (Part 31)
13	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Specific Energy	ASTM D 3338
14	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Thermal Stability, JFTOT, Filter pressure differential	ISO 6249
15	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Thermal Stability, JFTOT, Visual Rating	ISO 6249
16	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Thermal Stability, JFTOT, Filter pressure differential	IS 1448 (Part 97)
17	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Thermal Stability, JFTOT, Visual Rating	IS 1448 (Part 97)
18	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Total Acidity	IS 1448 (Part 113)

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19	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Total Aromatics	ASTM D 6379
20	CHEMICAL- PETROLEUM AND PRODUCTS	ATF	Water Reaction	IS 1448 (Part 42)
21	CHEMICAL- PETROLEUM AND PRODUCTS	ATF, Kerosene	Smoke Point by Automated Method	IP 598
22	CHEMICAL- PETROLEUM AND PRODUCTS	ATF, Kerosene, MTO, AUTOMOTIVE DIESEL FUEL	Flash Point, Abel	IS 1448 (Part 20)
23	CHEMICAL- PETROLEUM AND PRODUCTS	ATF, Kerosene, SOL14/25 ,MTO, AUTOMOTIVE DIESEL FUEL, HFHSD, SPINDLE OIL, SN90, LOBS 150N, LOBS 500N, BS	Appearance	ASTM D 4176
24	CHEMICAL- PETROLEUM AND PRODUCTS	ATF, Kerosene,SOL14/25, MTO,NAPHTHA,FGH	Colour, Saybolt	IS 1448 (Part 14)
25	CHEMICAL- PETROLEUM AND PRODUCTS	ATF, MTO	Aromatics	IS 1448 (Part 23)
26	CHEMICAL- PETROLEUM AND PRODUCTS	ATF, MTO, Kerosene	Density by Digital Density Meter	ASTM D 4052
27	CHEMICAL- PETROLEUM AND PRODUCTS	ATF, MTO, Kerosene	Density,API Gravity by Hydrometer	IS 1448 (Part 16)
28	CHEMICAL- PETROLEUM AND PRODUCTS	ATF, MTO, Kerosene	Distillation, temperature	IS 1448 (Part 18)
29	CHEMICAL- PETROLEUM AND PRODUCTS	ATF, MTO, Kerosene	Distillation,Recovery	IS 1448 (Part 18)
30	CHEMICAL- PETROLEUM AND PRODUCTS	ATF,Kerosene	Smoke Point	IS 1448 (Part 31)
31	CHEMICAL- PETROLEUM AND PRODUCTS	ATF,Kerosene,MTO	Sulphur by EDXRF	ASTM D 4294
32	CHEMICAL- PETROLEUM AND PRODUCTS	ATF,MTO,SOL14/25	Sulphur, mercaptan	IS 1448 (Part 109)
33	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL, HFHSD	Acidity,Total	IS 1448 (Part 2)
34	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL, HFHSD	Ash Content	IS 1448 (Part 4)
35	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL, HFHSD	Carbon Residue, Ramsbottom	IS 1448 (Part 8)
36	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL, HFHSD	Cetane Number	IS 1448 (Part 9)
37	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL, HFHSD	Cold Filter Plugging Point (CFPP)	IS 1448 (Part 110)

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38	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL, HFHSD	Density by Digital Density Meter	ASTM D 4052
39	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL, HFHSD	Distillation, temperature	IS 1448 (Part 18)
40	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL, HFHSD	Kinematic viscosity at 40.0 deg.C	ASTM D 7042
41	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL, HFHSD	Kinematic viscosity at 40.0 deg.C	Is 1448 (Part 25)
42	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL, HFHSD	Lubricity,WSD (HFRR)	ISO 12156
43	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL, HFHSD	Oxidation Stability	ASTM D 2274
44	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL, HFHSD	Polycyclic Aromatic Hydrocarbon (PAH)	IP 391
45	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL, HFHSD	Pour Point	IS 1448 (Part 10)
46	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL, HFHSD	Total Contamination	EN12662
47	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL, HFHSD, SPINDLE OIL,LOBS 150N, LOBS 500N,BS	Colour	IS 1448 (Part 12)
48	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL, HFHSD,SPINDLE OIL, LOBS 150 N, LOBS 500N	Water Content by coulometric titration	ISO 12937
49	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL,HFHSD	Cetane Index, Calculated	ASTM D 4737
50	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL,HFHSD	Density,API Gravity by Hydrometer	IS 1448 (Part 16)
51	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL,HFHSD	Distillation,Recovery	IS 1448 (Part 18)
52	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL,HFHSD	Sulphur by UV fluorescence	ASTM D 5453
53	CHEMICAL- PETROLEUM AND PRODUCTS	Elasto Supreme	Polycyclic Aromatics	IP 346
54	CHEMICAL- PETROLEUM AND PRODUCTS	Elasto Supreme H	Viscosity Gravity Constant (VGC)	ASTM D 2501
55	CHEMICAL- PETROLEUM AND PRODUCTS	Elasto Supreme, Elasto Supreme H, Elasto 710 R	Flash Point, COC	ASTM D 92
56	CHEMICAL- PETROLEUM AND PRODUCTS	Elasto Supreme, Elasto Supreme H, Elasto 710 R	Kinematic viscosity at 100.0 deg.C	ASTM D 445

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57	CHEMICAL- PETROLEUM AND PRODUCTS	Elasto Supreme, Elasto Supreme H, Elasto 710 R	Kinematic viscosity at 100.0 deg.C	ASTM D 7042
58	CHEMICAL- PETROLEUM AND PRODUCTS	Elasto Supreme,Elasto Supreme H, Elasto 710 R	Aniline Point	ASTM D 611
59	CHEMICAL- PETROLEUM AND PRODUCTS	Elasto Supreme,Elasto Supreme H, Elasto 710 R	Pour Point	ASTM D 97
60	CHEMICAL- PETROLEUM AND PRODUCTS	FGH	Benzene	ASTM D 4367
61	CHEMICAL- PETROLEUM AND PRODUCTS	FGH	Non-volatile residue	IS 3470 (Annex A)
62	CHEMICAL- PETROLEUM AND PRODUCTS	FGH	Polycyclic aromatic hydrocarbons	Annex F- IS 3470
63	CHEMICAL- PETROLEUM AND PRODUCTS	FGH	Reaction of Non-volatile residue	IS 3470 (Annex B)
64	CHEMICAL- PETROLEUM AND PRODUCTS	FGH	Refractive Index @ 20.0 deg.C	ASTM D 1218
65	CHEMICAL- PETROLEUM AND PRODUCTS	FGH	Saturates	IS 1448 (Part 23)
66	CHEMICAL- PETROLEUM AND PRODUCTS	FGH, MS, NAPHTHA, SOL14/25	Density by Digital Density Meter	ASTM D 4052
67	CHEMICAL- PETROLEUM AND PRODUCTS	FGH, MS, NAPHTHA, SOL14/25	Density,API Gravity by Hydrometer	IS 1448 (Part 16)
68	CHEMICAL- PETROLEUM AND PRODUCTS	FGH, MS, NAPHTHA, SOL14/25	Distillation, temperature	IS 1448 (Part 18)
69	CHEMICAL- PETROLEUM AND PRODUCTS	FGH, MS, NAPHTHA, SOL14/25,	Distillation,Recovery	IS 1448 (Part 18)
70	CHEMICAL- PETROLEUM AND PRODUCTS	FGH, SOL.14/25	Benzene	ASTM D 6730
71	CHEMICAL- PETROLEUM AND PRODUCTS	FGH, SOL14/25	Doctor Test	IS 1448 (Part 19)
72	CHEMICAL- PETROLEUM AND PRODUCTS	FGH, SOL14/25	Sulphur by UV fluorescence	ASTM D 5453
73	CHEMICAL- PETROLEUM AND PRODUCTS	FO	Acidity,Inorganic	ASTM D 974
74	CHEMICAL- PETROLEUM AND PRODUCTS	FO	Ash Content	ASTM D 482
75	CHEMICAL- PETROLEUM AND PRODUCTS	FO	Calculated carbon aromaticity index (CCAI)	Clause 6.2 of ISO 8217

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76	CHEMICAL- PETROLEUM AND PRODUCTS	FO	Carbon Residue, Ramsbottom	ASTM D 524
77	CHEMICAL- PETROLEUM AND PRODUCTS	FO	Carbon Residue,Micro Method	ASTM D 4530
78	CHEMICAL- PETROLEUM AND PRODUCTS	FO	Flash Point, PMCC	ASTM D 93
79	CHEMICAL- PETROLEUM AND PRODUCTS	FO	Hydrogen Sulphide	IP 570
80	CHEMICAL- PETROLEUM AND PRODUCTS	FO	Kinematic viscosity at 50.0 deg.C	ASTM D 445
81	CHEMICAL- PETROLEUM AND PRODUCTS	FO	Kinematic viscosity at 50.0 deg.C	ASTM D 7042
82	CHEMICAL- PETROLEUM AND PRODUCTS	FO	Kinematic viscosity at 50.0 deg.C	IS 1448 (Part 25)
83	CHEMICAL- PETROLEUM AND PRODUCTS	FO	Pour Point	ASTM D 97
84	CHEMICAL- PETROLEUM AND PRODUCTS	FO	Total Sediment by hot filtration	ISO 10307-1
85	CHEMICAL- PETROLEUM AND PRODUCTS	FO	Total Sediment-Aged	ISO 10307-2
86	CHEMICAL- PETROLEUM AND PRODUCTS	FO	Water Content by Dean & Stark apparatus	ASTM D 95
87	CHEMICAL- PETROLEUM AND PRODUCTS	FO, LDO	Ash Content	IS 1448 (Part 4)
88	CHEMICAL- PETROLEUM AND PRODUCTS	FO, LDO	Sulphur by EDXRF	ASTM D 4294
89	CHEMICAL- PETROLEUM AND PRODUCTS	FO,LDO	Carbon Residue, Ramsbottom	IS 1448 (Part 8)
90	CHEMICAL- PETROLEUM AND PRODUCTS	FO,LDO	Density by Digital Density Meter	ASTM D 4052
91	CHEMICAL- PETROLEUM AND PRODUCTS	FO,LDO	Density,API Gravity by Hydrometer	IS 1448 (Part 16)
92	CHEMICAL- PETROLEUM AND PRODUCTS	FO,LDO	Water Content by Dean & Stark Apparatus	IS 1448 (Part 40)
93	CHEMICAL- PETROLEUM AND PRODUCTS	HFHSD	Sulphur by EDXRF	ASTM D 4294
94	CHEMICAL- PETROLEUM AND PRODUCTS	HFHSD, LDO, FO	Flash Point, PMCC	IS 1448 (Part 21)

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95	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene	Burning Quality, Bloom on glass Chimney	IS 1448 (Part 5)
96	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene	Burning Quality, Char Value	IS 1448 (Part 5)
97	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene, HSD, HFHSD, LDO, FO	Acidity,Inorganic	IS 1448 (Part 2)
98	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene, MTO, ATF, NAPHTHA,FGH,SOL14/25	Colour by Automatic Tristimulus Method	ASTM D 6045
99	CHEMICAL- PETROLEUM AND PRODUCTS	LDO	Kinematic viscosity at 40.0 deg.C	ASTM D7042
100	CHEMICAL- PETROLEUM AND PRODUCTS	LDO	Kinematic viscosity at 40.0 deg.C	IS 1448 (Part 25)
101	CHEMICAL- PETROLEUM AND PRODUCTS	LDO, FO	Pour Point	IS 1448 (Part 10)
102	CHEMICAL- PETROLEUM AND PRODUCTS	LDO,FO	Sediment by extraction	IS 1448 (Part 30)
103	CHEMICAL- PETROLEUM AND PRODUCTS	LPG	Caustic test	IS 4576:2021 Note-11
104	CHEMICAL- PETROLEUM AND PRODUCTS	LPG	Composition, C2 Hydrocarbons	IS 1448 (Part 151)
105	CHEMICAL- PETROLEUM AND PRODUCTS	LPG	Composition, C3 Hydrocarbons	IS 1448 (Part 151)
106	CHEMICAL- PETROLEUM AND PRODUCTS	LPG	Composition, C4 Hydrocarbons	IS 1448 (Part 151)
107	CHEMICAL- PETROLEUM AND PRODUCTS	LPG	Composition, C5 Hydrocarbons	IS 1448 (Part 151)
108	CHEMICAL- PETROLEUM AND PRODUCTS	LPG	Copper Strip Corrosion for 1 hr @ 40 deg.C	IS 1448 (Part 152)
109	CHEMICAL- PETROLEUM AND PRODUCTS	LPG	Density @ 15.0 Deg.C	ISO 8973
110	CHEMICAL- PETROLEUM AND PRODUCTS	LPG	Density @15.0 deg.C	IS 1448 (Part 76)
111	CHEMICAL- PETROLEUM AND PRODUCTS	LPG	Free Water Content	Visual
112	CHEMICAL- PETROLEUM AND PRODUCTS	LPG	Hydrogen Sulphide	IS 4576:2021 Note-6
113	CHEMICAL- PETROLEUM AND PRODUCTS	LPG	Total Volatile Sulphur	ASTM D 6667

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114	CHEMICAL- PETROLEUM AND PRODUCTS	LPG	Vapour Pressure @ 40 Deg. C	ISO 8973
115	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Any Other Oxygenates	ASTM D 4815
116	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Benzene	ASTM D 5580
117	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Colour, Visual	Visual
118	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Ethanol Content	ASTM D 4815
119	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Ethers Containing 5 or more carbon atoms per molecule such as MTBE, ETBE, or TAME	ASTM D 4815
120	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Gum Content	IS 1448 (Part 29)
121	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Lead (as pb) by XRF	ASTM D 5059
122	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Motor octane number (MON)	ASTM D 2700
123	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Oxidation Stability	IS 1448 (Part 28)
124	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Oxygen Content	ASTM D 4815
125	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Research octane number (RON)	ASTM D 2699
126	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Sulphur by EDXRF	ASTM D 4294
127	CHEMICAL- PETROLEUM AND PRODUCTS	MS	Vapour lock index (VLI)	IS 2796 (Table 1 Sl No. xi)
128	CHEMICAL- PETROLEUM AND PRODUCTS	MS, FGH, Kerosene, ATF, SOL14/25, MTO, AUTOMOTIVE DIESEL FUEL, HFHSD, LDO, SPINDLE OIL,SN90,LOBS 150N,LOBS 500N,BS,	Copper Strip Corrosion	IS 1448 (Part 15)
129	CHEMICAL- PETROLEUM AND PRODUCTS	MS, NAPHTHA	Reid vapour pressure (RVP)	IS 1448 (Part 39)
130	CHEMICAL- PETROLEUM AND PRODUCTS	MS. NAPHTHA	Sulphur by UV fluorescence	ASTM D 5453
131	CHEMICAL- PETROLEUM AND PRODUCTS	NAPHTHA	Aromatics	ASTM D 1319

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132	CHEMICAL- PETROLEUM AND PRODUCTS	NAPHTHA	Colour, Saybolt	ASTM D 156
133	CHEMICAL- PETROLEUM AND PRODUCTS	NAPHTHA	Distillation, temperature	ASTM D 86
134	CHEMICAL- PETROLEUM AND PRODUCTS	NAPHTHA	Distillation,Recovery	ASTM D 86
135	CHEMICAL- PETROLEUM AND PRODUCTS	NAPHTHA	Existent Gum (ROE)	ASTM D 381
136	CHEMICAL- PETROLEUM AND PRODUCTS	NAPHTHA	Olefins	ASTM D 1319
137	CHEMICAL- PETROLEUM AND PRODUCTS	NAPHTHA	Reid vapour pressure (RVP)	ASTM D 323
138	CHEMICAL- PETROLEUM AND PRODUCTS	NAPHTHA	Sulphur by EDXRF	ASTM D 4294
139	CHEMICAL- PETROLEUM AND PRODUCTS	NAPHTHA	Trace Oxygenates	UOP 960
140	CHEMICAL- PETROLEUM AND PRODUCTS	NAPHTHA, ATF, SOL14/25, MTO	Existent Gum (ROE)	IS 1448 (Part 29)
141	CHEMICAL- PETROLEUM AND PRODUCTS	NAPHTHA, FO, Elasto Supreme, Elasto Supreme H, Elasto 710 R	Density,API Gravity by Hydrometer	ASTM D 1298
142	CHEMICAL- PETROLEUM AND PRODUCTS	NAPHTHA,,MS	Olefins	IS 1448 (Part 23)
143	CHEMICAL- PETROLEUM AND PRODUCTS	NAPHTHA,FO	Calorific Value,Gross & Net (Calculated)	IS 1448 (Part 7)
144	CHEMICAL- PETROLEUM AND PRODUCTS	NAPHTHA,MS	Aromatics	IS 1448 (Part 23)
145	CHEMICAL- PETROLEUM AND PRODUCTS	RPO	Loss on heating	IS 1212
146	CHEMICAL- PETROLEUM AND PRODUCTS	RPO	Refractive Index @ 60.0 deg.C	ASTM D 1747
147	CHEMICAL- PETROLEUM AND PRODUCTS	RPO, Elasto Supreme, Elasto Supreme H, Elasto 710 R	Density by Digital Density Meter	ASTM D 4052
148	CHEMICAL- PETROLEUM AND PRODUCTS	RPO, Elasto Supreme, Elasto Supreme H, Elasto 710 R	Kinematic viscosity at 100 deg.C	ASTM D 7042
149	CHEMICAL- PETROLEUM AND PRODUCTS	RPO, Elasto Supreme, Elasto Supreme H, Elasto 710 R	Kinematic viscosity at 100 deg.C	IS 1448 (Part 25)
150	CHEMICAL- PETROLEUM AND PRODUCTS	RPO, Elasto Supreme,Elasto Supreme H, Elasto 710 R	Aniline Point	IS 1448 (Part 3)

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151	CHEMICAL- PETROLEUM AND PRODUCTS	SOL14/25, NAPHTHA	Naphthenes	ASTM D 6839
152	CHEMICAL- PETROLEUM AND PRODUCTS	SOL14/25, NAPHTHA	Naphthenes	ASTM D5443
153	CHEMICAL- PETROLEUM AND PRODUCTS	SOL14/25, NAPHTHA	Olefins	ASTM D 5443
154	CHEMICAL- PETROLEUM AND PRODUCTS	SOL14/25, NAPHTHA	Paraffins	ASTM D 5443
155	CHEMICAL- PETROLEUM AND PRODUCTS	SOL14/25, NAPHTHA	Paraffins	ASTM D 6839
156	CHEMICAL- PETROLEUM AND PRODUCTS	SOL14/25, NAPHTHA, MS	Aromatics	ASTM D 5443
157	CHEMICAL- PETROLEUM AND PRODUCTS	SOL14/25, NAPHTHA, MS	Aromatics	ASTM D 6839
158	CHEMICAL- PETROLEUM AND PRODUCTS	SOL14/25, NAPHTHA,MS	Olefins	ASTM D 6839
159	CHEMICAL- PETROLEUM AND PRODUCTS	SPINDLE OIL, LOBS 150N LOBS 500N	Sulphur by UV fluorescence	ASTM D 5453
160	CHEMICAL- PETROLEUM AND PRODUCTS	SPINDLE OIL, SN90,LOBS 150N, LOBS 500N, BS, RPO, Elasto Supreme, Elasto Supreme H, Elasto 710 R	Sulphur by EDXRF	ASTM D 4294
161	CHEMICAL- PETROLEUM AND PRODUCTS	SPINDLE OIL, LOBS 150N, LOBS 500N	Total Aromatics	ASTM D 7419
162	CHEMICAL- PETROLEUM AND PRODUCTS	SPINDLE OIL, SN 90, LOBS 150 N, LOBS 500N, BS	Kinematic viscosity at 100.0 deg.C	ASTM D 7042
163	CHEMICAL- PETROLEUM AND PRODUCTS	SPINDLE OIL, SN 90, LOBS 150 N, LOBS 500N, BS	Kinematic viscosity at 100.0 deg.C	IS 1448 (Part 25)
164	CHEMICAL- PETROLEUM AND PRODUCTS	SPINDLE OIL, SN 90, LOBS 150 N, LOBS 500N, BS	Kinematic viscosity at 40.0 deg.C	ASTM D7042
165	CHEMICAL- PETROLEUM AND PRODUCTS	SPINDLE OIL, SN 90, LOBS 150 N, LOBS 500N, BS	Kinematic viscosity at 40.0 deg.C	IS 1448 (Part 25)
166	CHEMICAL- PETROLEUM AND PRODUCTS	SPINDLE OIL, SN 90, LOBS 150N, LOBS 500N ,BS	Viscosity Index (VI)	IS 1448 (Part 56)
167	CHEMICAL- PETROLEUM AND PRODUCTS	SPINDLE OIL, SN90 LOBS 150N , LOBS 500N, BS, RPO	Pour Point	IS 1448 (Part 10)
168	CHEMICAL- PETROLEUM AND PRODUCTS	SPINDLE OIL, SN90, LOBS 150N, LOBS 500N, BS	Density by Digital Density Meter	ASTM D 4052
169	CHEMICAL- PETROLEUM AND PRODUCTS	SPINDLE OIL, SN90, LOBS 150N, LOBS 500N, BS, RPO	Density,API Gravity by Hydrometer	IS 1448 (Part 16)

SCOPE OF ACCREDITATION

Laboratory Name :	MUMBAI REFINERY LABORATORY, HINDUSTAN PETROLEUM CORPORATION LTD., B D PATIL MARG, MUMBAI, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8187	**Page No**	10 of 10
Validity	08/12/2021 to 07/12/2023	**Last Amended on**	24/12/2021

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
170	CHEMICAL- PETROLEUM AND PRODUCTS	SPINDLE OIL, SN90, LOBS 150N, LOBS 500N, BS, RPO, Elasto Supreme, Elasto Supreme H, Elasto 710 R	Flash Point, COC	IS 1448 (Part 69)
171	CHEMICAL- PETROLEUM AND PRODUCTS	SPINDLE OIL,LOBS 150N, LOBS 500N	Ash Content	IS 1448 (Part 4)
172	CHEMICAL- PETROLEUM AND PRODUCTS	SPINDLE OIL,LOBS 150N, LOBS 500N	Carbon Residue, Ramsbottom	IS 1448 (Part 8)