National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : REFINERY LABORATORY - NAYARA ENERGY LIMITED, 39 KM, JAMNAGAR - OKHA HIGHWAY, VADINAR, JAMNAGAR, DEVBHUMI DWARKA, GUJARAT, 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	Aviation Turbine Fuel (Jet A-1)	Copper Corrosion	ASTM D 130
2	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (Jet A-1)	Density at 15 °C	ASTM D 4052
3	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (Jet A-1)	Distillation, 10% Recovery	ASTM D 86 (Automated)
4	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (Jet A-1)	Distillation, 50% Recovery	ASTM D 86 (Automated)
5	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (Jet A-1)	Distillation, 90% Recovery	ASTM D 86 (Automated)
6	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (Jet A-1)	Distillation, End Point /Final boiling point	ASTM D 86 (Automated)
7	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (Jet A-1)	Distillation, Initial Boiling Point	ASTM D 86 (Automated)
8	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (Jet A-1)	Distillation: Loss	ASTMD86 (Automated)
9	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (Jet A-1)	Distillation: Residue	ASTMD86 (Automated)
10	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (Jet A-1)	Electrical Conductivity	ASTM D 2624
11	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (Jet A-1)	Existent Gum	IP 540
12	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (Jet A-1)	Fatty Acid Methyl Ester (FAME) Content	IP 585
13	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (Jet A-1)	Flash point - ABEL	IP 170 (Automated)
14	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (Jet A-1)	Freezing Point	ASTM D 2386
15	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (Jet A-1)	Freezing point (Auto)	ASTM D 5972
16	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (Jet A-1)	Kinematic viscosity at minus 20°C	ASTM D 445
17	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (Jet A-1)	Lubricity, Wear Scar Diameter	ASTM D 5001
18	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (Jet A-1)	MSEP	ASTM D 3948

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19	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (Jet A-1)	Naphthalenes	ASTM D 1840
20	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (Jet A-1)	Particulate Contamination	ASTM D 5452
21	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (Jet A-1)	Saybolt Colour	ASTM D 156
22	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (Jet A-1)	Silver strip corrosion	IS 1571:2018 Annex B
23	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (Jet A-1)	Smoke Point – Manual	ASTM D 1322 (Manual)
24	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (Jet A-1)	Smoke point (Auto)	ASTM D 1322 (Automated)
25	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (Jet A-1)	Specific Energy (Calculation)	ASTM D 3338
26	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (Jet A-1)	Sulphur, Mercaptan	ASTM D 3227
27	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (Jet A-1)	Thermal Stability, JFTOT – Pressure Differential	ASTM D 3241
28	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (Jet A-1)	Thermal Stability, JFTOT –Tube Rating Visual (VTR)	ASTM D 3241
29	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (Jet A-1)	Total Acidity	ASTM D 3242
30	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (Jet A-1)	Total Aromatics	ASTM D 6379
31	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (Jet A-1)	Total Sulphur	ASTM D 5453
32	CHEMICAL- PETROLEUM AND PRODUCTS	Aviation Turbine Fuel (Jet A-1)	Visual Appearance	ASTM D 4176 Procedure -1
33	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Acid Number	ASTM D 664
34	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Acidity, inorganic /Acid Number- Strong /Acidity, total	ASTM D 974
35	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Appearance	ASTM D 4176 Procedure 1
36	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Appearance	NAYA/TS/LAB/SOP/579, Issue No.: 01, Issue Dt: 15.03.19
37	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Aromatics	IP 391

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38	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Ash	ASTM D 482
39	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	ASTM Colour	ASTM D 1500
40	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Carbon Residue (MCRT)	ASTM D 4530
41	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Cetane Index (Calculated_D4737)	ASTM D 4737
42	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Cetane Index (Calculated_D976)	ASTM D 976
43	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Cetane Number	ASTM D 613
44	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Cloud Point	ASTM D 2500
45	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Cold Filter Plugging Point (CFPP)	ASTM D 6371
46	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Copper strip corrosion	ASTM D 130
47	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Density at 15°C	ASTM D 4052
48	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Distillation Perc. Rec. at 360°C	ASTM D 86 (Automated)
49	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Distillation T10 (10% recovered)	ASTM D 86 (Automated)
50	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Distillation T10 (10% recovered)	EN ISO 3405
51	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Distillation T50 (50% recovered)	ASTM D 86 (Automated)
52	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Distillation T50 (50% recovered)	EN ISO 3405
53	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Distillation T90 (90% recovered)	ASTM D 86 (Automated)
54	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Distillation T90 (90% recovered)	EN ISO 3405
55	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Distillation T95, (95% recovered)	EN ISO 3405
56	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Distillation volume recovered @ 250°C	ASTM D 86 (Automated)

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57	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Distillation volume recovered @ 250°C	EN ISO 3405
58	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Distillation volume recovered @ 350°C	ASTM D 86 (Automated)
59	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Distillation volume recovered @ 350°C	EN ISO 3405
60	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Distillation, 95 percent v/v, recovery	ASTM D 86 (Automated)
61	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Distillation, Final boiling Point	EN ISO 3405
62	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Distillation,Final boiling Point	ASTM D 86 (Automated)
63	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Electrical Conductivity	ASTM D 2624
64	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	FAME content	EN 14078
65	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Flash Point, Abel	IP 170 (Automated)
66	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Flash Point, PMCC	ASTM D 93 A (Automated)
67	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Hydrogen Sulphide	UOP 163
68	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Kinematic Viscosity at 40 °C	ASTM D 445
69	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Lubricity	ISO 12156-1
70	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Odour	SOP No.-NAYA/TS/LAB/SOP/600 Issue No.-01 , Issue Dt -15.01.2021
71	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Oxidation Stability	ASTM D 2274
72	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Poly Aromatic Hydrocarbon	IP 391
73	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Pour Point	ASTM D 97
74	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Ramsbottom Carbon Residue	ASTM D 524

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75	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Total Contamination	EN 12662
76	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Total Sediments	ASTM D 473
77	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Total Sulphur	ASTM D 4294
78	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Total Sulphur	ASTM D 5453
79	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Water and Sediments (BS&W)	ASTM D 2709
80	CHEMICAL- PETROLEUM AND PRODUCTS	Diesel	Water Content	ISO 12937
81	CHEMICAL- PETROLEUM AND PRODUCTS	Heating Oil (Light Diesel Oil)	Acidity Inorganic / Acid Number	ASTM D 974
82	CHEMICAL- PETROLEUM AND PRODUCTS	Heating Oil (Light Diesel Oil)	Ash	ASTM D 482
83	CHEMICAL- PETROLEUM AND PRODUCTS	Heating Oil (Light Diesel Oil)	Carbon Residue(MCRT)	ASTM D 4530
84	CHEMICAL- PETROLEUM AND PRODUCTS	Heating Oil (Light Diesel Oil)	Copper strip Corrosion	ASTM D 130
85	CHEMICAL- PETROLEUM AND PRODUCTS	Heating Oil (Light Diesel Oil)	Density at 15°C	ASTM D 4052
86	CHEMICAL- PETROLEUM AND PRODUCTS	Heating Oil (Light Diesel Oil)	Flash Point, Pensky Martens	ASTM D 93
87	CHEMICAL- PETROLEUM AND PRODUCTS	Heating Oil (Light Diesel Oil)	Kinematic Viscosity at 40°C	ASTM D 445
88	CHEMICAL- PETROLEUM AND PRODUCTS	Heating Oil (Light Diesel Oil)	Pour point	ASTM D 97
89	CHEMICAL- PETROLEUM AND PRODUCTS	Heating Oil (Light Diesel Oil)	Sediment	ASTM D 473
90	CHEMICAL- PETROLEUM AND PRODUCTS	Heating Oil (Light Diesel Oil)	Total Sulphur	ASTM D 4294
91	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline / Motor Spirit	Appearance	NAYA/TS/LAB/SOP/579, Issue No. 01, Issue Date: 15.03.2019
92	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline / Motor Spirit	Aromatics content	ASTM D 6839
93	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline / Motor Spirit	Benzene content	ASTM D 3606

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94	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline / Motor Spirit	Benzene content	ASTM D 6839
95	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline / Motor Spirit	Colour, Visual	NAYA/TS/LAB/SOP/580, Issue No. 01, Issue Date: 15.03.2019
96	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline / Motor Spirit	Copper strip corrosion	ASTM D 130
97	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline / Motor Spirit	Corrosion(Ag) 3 hrs@50°C	ASTM D 7671, Procedure-B
98	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline / Motor Spirit	Density at 15°C	ASTM D 4052
99	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline / Motor Spirit	Distillation Residue	ASTM D 86 (Automated)
100	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline / Motor Spirit	Distillation, Final Boiling Point (FBP)	ASTM D 86 (Automated)
101	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline / Motor Spirit	Distillation, T10% evaporated	ASTM D 86 (Automated)
102	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline / Motor Spirit	Distillation, T50% evaporated	ASTM D 86 (Automated)
103	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline / Motor Spirit	Distillation, T90% evaporated	ASTM D 86 (Automated)
104	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline / Motor Spirit	Distillation: percent evaporated at 100°C (E 100°C)	ASTM D 86 (Automated)
105	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline / Motor Spirit	Distillation: percent evaporated at 70°C (E 70°C)	ASTM D 86 (Automated)
106	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline / Motor Spirit	Distillation:percent evaporated at 150°C (E 150°C)	ASTM D 86 (Automated)
107	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline / Motor Spirit	Driveability index	ASTM D 4814
108	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline / Motor Spirit	Ethanol content, E10	IS 2796, Annex C
109	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline / Motor Spirit	Existent Gum / Gum content (Solvent washed)	ASTM D 381
110	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline / Motor Spirit	Lead Content (as Pb)	ASTM D 5059
111	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline / Motor Spirit	Lead Content (as Pb)	IP 352
112	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline / Motor Spirit	Mercaptan	ASTM D 3227

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113	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline / Motor Spirit	Motor Octane Number (MON)	ASTM D 2700
114	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline / Motor Spirit	MTBE	ASTM D 4815
115	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline / Motor Spirit	Olefin content	ASTM D 6839
116	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline / Motor Spirit	Oxidation Stability (Induction Period)	ASTM D 525
117	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline / Motor Spirit	Oxygen Content	ASTM D 4815 (Calculation)
118	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline / Motor Spirit	Oxygenates Content	ASTM D 4815
119	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline / Motor Spirit	Reid Vapour Pressure (RVP)	ASTM D 5191
120	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline / Motor Spirit	Reid vapour pressure (RVP)	IS 2796 Annex A
121	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline / Motor Spirit	Research Octane Number (RON)	ASTM D 2699
122	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline / Motor Spirit	Total sulphur	ASTM D 4294
123	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline / Motor Spirit	Total Sulphur	ASTM D 5453
124	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline / Motor Spirit	TVL ratio @ 20	ASTM D 5188
125	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline / Motor Spirit	Vapour Lock Index (VLI)	IS 2796
126	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline / Motor Spirit	Water tolerance of motor gasoline-alcohol blends,temperature for phase separation	IS 2796 Annex B
127	CHEMICAL- PETROLEUM AND PRODUCTS	Naphtha	Color, Saybolt	ASTM D 156
128	CHEMICAL- PETROLEUM AND PRODUCTS	Naphtha	Density at 60 Deg F	ASTM D 4052
129	CHEMICAL- PETROLEUM AND PRODUCTS	Naphtha	Distillation FBP	ASTM D 86 (Automated)
130	CHEMICAL- PETROLEUM AND PRODUCTS	Naphtha	Distillation IBP	ASTM D 86 (Automated)

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131	CHEMICAL- PETROLEUM AND PRODUCTS	Naphtha	Distillation T10 (10% recovered)	ASTM D 86 (Automated)
132	CHEMICAL- PETROLEUM AND PRODUCTS	Naphtha	Distillation T50 (50% recovered)	ASTM D 86 (Automated)
133	CHEMICAL- PETROLEUM AND PRODUCTS	Naphtha	Distillation T90 (90% recovered)	ASTM D 86 (Automated)
134	CHEMICAL- PETROLEUM AND PRODUCTS	Naphtha	Mercury	UOP 938
135	CHEMICAL- PETROLEUM AND PRODUCTS	Naphtha	Organic Chloride	ASTM D 4929 -B
136	CHEMICAL- PETROLEUM AND PRODUCTS	Naphtha	Paraffin content	ASTM D 6839
137	CHEMICAL- PETROLEUM AND PRODUCTS	Naphtha	Reid Vapour Pressure (RVP)	ASTM D 5191
138	CHEMICAL- PETROLEUM AND PRODUCTS	Naphtha	Total Sulphur	ASTM D 4294
139	CHEMICAL- PETROLEUM AND PRODUCTS	Naphtha	Total Sulphur	ASTM D 5453