National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BHARAT PETROLEUM CORPORATION LTD, QA LABORATORY, IRUMPANAM, IRUMPANAM INSTALLATION, NEW OIL INSTALLATION, KOCHI, ERNAKULAM, KERALA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7499 **Page No** 1 of 8

Validity 04/09/2022 to 03/09/2024 **Last Amended on** 31/10/2022

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- LUBRICANTS	Lubricants	VISCOSITY INDEX	IS:1448(P 56)
2	CHEMICAL- LUBRICANTS	Lubricants	APPERANCE	SOP 9, Issue No.3, Issue Date 01.11.2019
3	CHEMICAL- LUBRICANTS	LUBRICANTS	COLOUR VISUAL	SOP 11, Issue No.3, Issue Date 01.11.2019
4	CHEMICAL- LUBRICANTS	LUBRICANTS	COLOUR,ASTM	ASTM D:1500
5	CHEMICAL- LUBRICANTS	LUBRICANTS	COLOUR,ASTM	IS:1448(P12)
6	CHEMICAL- LUBRICANTS	Lubricants	CRACKLE TEST	SOP 10, Issue No.3, Issue Date 01.11.2019
7	CHEMICAL- LUBRICANTS	Lubricants	DENSITY, gm/ml	ASTM D 1298-12b
8	CHEMICAL- LUBRICANTS	LUBRICANTS	DENSITY, gm/ml	IS:1448(P 16)
9	CHEMICAL- LUBRICANTS	Lubricants	FLASH POINT(COC)°C	ASTM D 92
10	CHEMICAL- LUBRICANTS	Lubricants	FLASH POINT(COC)°C	IS:1448(P 69)
11	CHEMICAL- LUBRICANTS	Lubricants	FLASH POINT(PENSKY MARTEN)°C	ASTM D 93
12	CHEMICAL- LUBRICANTS	Lubricants	FLASH POINT(PENSKY MARTEN)°C	IS:1448(P 21)
13	CHEMICAL- LUBRICANTS	Lubricants	KINEMATIC VISCOSITY @ 100°C ,Cst	ASTM D 445
14	CHEMICAL- LUBRICANTS	Lubricants	KINEMATIC VISCOSITY @ 100°C ,Cst	ASTM D 7042
15	CHEMICAL- LUBRICANTS	Lubricants	KINEMATIC VISCOSITY @ 100°C ,Cst	IS:1448(P 25)
16	CHEMICAL- LUBRICANTS	Lubricants	KINEMATIC VISCOSITY @ 40°C ,Cst	ASTM D 445
17	CHEMICAL- LUBRICANTS	Lubricants	KINEMATIC VISCOSITY @ 40°C ,Cst	ASTM D 7042
18	CHEMICAL- LUBRICANTS	Lubricants	KINEMATIC VISCOSITY @ 40°C ,Cst	IS:1448(P25)
19	CHEMICAL- LUBRICANTS	LUBRICANTS	POUR POINT °C	ASTM D 97
20	CHEMICAL- LUBRICANTS	LUBRICANTS	POUR POINT °C	IS1448(P 10)
21	CHEMICAL- LUBRICANTS	Lubricants	VISCOSITY INDEX	ASTM D 2270
22	CHEMICAL- LUBRICANTS	Lubricants	WATER CONTENT,% VOL	IS:1448(P 40)

SCOPE OF ACCREDITATION

Laboratory Name : BHARAT PETROLEUM CORPORATION LTD, QA LABORATORY, IRUMPANAM, IRUMPANAM INSTALLATION, NEW OIL INSTALLATION, KOCHI, ERNAKULAM, KERALA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7499 **Page No** 2 of 8

Validity 04/09/2022 to 03/09/2024 **Last Amended on** 31/10/2022

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
23	CHEMICAL- PETROLEUM AND PRODUCTS	DISTILLATE MARINE FUEL(DMA)	DISTILLATION(% VOLUME RECOVERED,RESIDUE)	ASTM D 86
24	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL	APPEARANCE	SOP 9, Issue No.3, Issue Date 01.11.2019
25	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL	CETANE INDEX(CALCULATED)	ASTM D 4737
26	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL	CETANE INDEX(CALCULATED)	IS:1448(P 56)
27	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL	COLOUR	SOP 11, Issue No.3, Issue Date 01.11.2019
28	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL	COPPER STRIP CORROSION	IS:1448(P 15)
29	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL	DENSITY kg/m3	ASTM D 1298
30	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL	DENSITY kg/m3 or g/ml	IS:1448(P 16)
31	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL	DISTILLATION(% VOLUME RECOVERED,RESIDUE)	ASTM D 86
32	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL	DISTILLATION(% VOLUME RECOVERED,RESIDUE)	IS:1448(P18)
33	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL	DISTILLATION(BOILING RANGE °C)	ASTM D 86
34	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL	DISTILLATION(BOILING RANGE °C)	IS:1448(P 18)
35	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL	FLASH POINT (ABEL) °C	IS:1448(P20)
36	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL	FLASH POINT(ABEL)°C	IP 170
37	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL	FLASH POINT(PENSKY MARTEN)°C	ASTM D 93
38	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL	FLASH POINT(PENSKY MARTEN)°C	IS:1448(P21)
39	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL	KINEMATIC VISCOSITY @ 40°C	ASTM D 445
40	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL	KINEMATIC VISCOSITY @ 40°C	IS:1448(P 25)
41	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL	KINEMATIC VISCOSITY @ 40°C,cst	ASTM D 7042

SCOPE OF ACCREDITATION

Laboratory Name :	BHARAT PETROLEUM CORPORATION LTD, QA LABORATORY, IRUMPANAM, IRUMPANAM INSTALLATION, NEW OIL INSTALLATION, KOCHI, ERNAKULAM, KERALA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-7499	**Page No**	3 of 8
Validity	04/09/2022 to 03/09/2024	**Last Amended on**	31/10/2022

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
42	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL	POUR POINT	ASTM D 97
43	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL	POUR POINT °C	IS:1448(P 10)
44	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL	SULPHUR TOTAL, mg/kg	ASTM D 4294
45	CHEMICAL- PETROLEUM AND PRODUCTS	AUTOMOTIVE DIESEL FUEL	SULPHUR TOTAL, mg/kg	ASTM D 5453
46	CHEMICAL- PETROLEUM AND PRODUCTS	DISTILLATE MARINE FUEL	DISTILLATION(BOILING RANGE °C)	IS:1448(P18)
47	CHEMICAL- PETROLEUM AND PRODUCTS	DISTILLATE MARINE FUEL(DMA)	APPERANCE	SOP 9, Issue No.3, Issue Date 01.11.2019
48	CHEMICAL- PETROLEUM AND PRODUCTS	DISTILLATE MARINE FUEL(DMA)	CETANE INDEX(CALCULATED)	ASTM D 4737
49	CHEMICAL- PETROLEUM AND PRODUCTS	DISTILLATE MARINE FUEL(DMA)	CETANE INDEX(CALCULATED)	IS:1448(P 56)
50	CHEMICAL- PETROLEUM AND PRODUCTS	DISTILLATE MARINE FUEL(DMA)	COLOUR	SOP 11, Issue No.3, Issue Date 01.11.2019
51	CHEMICAL- PETROLEUM AND PRODUCTS	DISTILLATE MARINE FUEL(DMA)	COPPER STRIP CORROSION, 3 H AT 100 °C	IS:1448(P15)
52	CHEMICAL- PETROLEUM AND PRODUCTS	DISTILLATE MARINE FUEL(DMA)	DENSITY kg/m3 or g/ml	ASTM D 1298- 12b
53	CHEMICAL- PETROLEUM AND PRODUCTS	DISTILLATE MARINE FUEL(DMA)	DENSITY,kg/m3 or g/ml	IS:1448(P 16)
54	CHEMICAL- PETROLEUM AND PRODUCTS	DISTILLATE MARINE FUEL(DMA)	DISTILLATION(% VOLUME RECOVERED,RESIDUE)	IS:1448(P 18)
55	CHEMICAL- PETROLEUM AND PRODUCTS	DISTILLATE MARINE FUEL(DMA)	DISTILLATION(BOILING RANGE °C)	ASTM D 86
56	CHEMICAL- PETROLEUM AND PRODUCTS	DISTILLATE MARINE FUEL(DMA)	FLASH POINT(ABEL)°C	IS:1448(P 20)
57	CHEMICAL- PETROLEUM AND PRODUCTS	DISTILLATE MARINE FUEL(DMA)	FLASH POINT(ABEL)°C	IP 170
58	CHEMICAL- PETROLEUM AND PRODUCTS	DISTILLATE MARINE FUEL(DMA)	FLASH POINT(PENSKY MARTEN)°C	ASTM D 93
59	CHEMICAL- PETROLEUM AND PRODUCTS	DISTILLATE MARINE FUEL(DMA)	FLASH POINT(PENSKY MARTEN)°C	IS:1448(P 21)
60	CHEMICAL- PETROLEUM AND PRODUCTS	DISTILLATE MARINE FUEL(DMA)	KINEMATIC VISCOSITY @ 40°C ,Cst	ASTM D 445

SCOPE OF ACCREDITATION

Laboratory Name :	BHARAT PETROLEUM CORPORATION LTD, QA LABORATORY, IRUMPANAM, IRUMPANAM INSTALLATION, NEW OIL INSTALLATION, KOCHI, ERNAKULAM, KERALA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-7499	**Page No**	4 of 8
Validity	04/09/2022 to 03/09/2024	**Last Amended on**	31/10/2022

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
61	CHEMICAL- PETROLEUM AND PRODUCTS	DISTILLATE MARINE FUEL(DMA)	KINEMATIC VISCOSITY @ 40°C ,Cst	ASTM D 7042
62	CHEMICAL- PETROLEUM AND PRODUCTS	DISTILLATE MARINE FUEL(DMA)	KINEMATIC VISCOSITY @ 40°C ,Cst	IS:1448(P 25)
63	CHEMICAL- PETROLEUM AND PRODUCTS	DISTILLATE MARINE FUEL(DMA)	POUR POINT	ASTM D 97
64	CHEMICAL- PETROLEUM AND PRODUCTS	DISTILLATE MARINE FUEL(DMA)	POUR POINT °C	IS:1448(P 10)
65	CHEMICAL- PETROLEUM AND PRODUCTS	DISTILLATE MARINE FUEL(DMA)	SULPHUR TOTAL, %	ASTM D 5453
66	CHEMICAL- PETROLEUM AND PRODUCTS	DISTILLATE MARINE FUEL(DMA)	SULPHUR TOTAL,mg/kg	ASTM D 4294
67	CHEMICAL- PETROLEUM AND PRODUCTS	ETHANOL BULK	ACIDITY AS CH3COOH,mg/l	IS 15464(ANNEX-D)
68	CHEMICAL- PETROLEUM AND PRODUCTS	ETHANOL BULK	Aldehyde content	IS 15464(Annex -E)
69	CHEMICAL- PETROLEUM AND PRODUCTS	ETHANOL BULK	Alkalinity	IS 15464(Annex -D)
70	CHEMICAL- PETROLEUM AND PRODUCTS	ETHANOL BULK	APPEARANCE	SOP 9, Issue No.3, Issue Date 01.11.2019
71	CHEMICAL- PETROLEUM AND PRODUCTS	ETHANOL BULK	COLOUR	SOP 11, Issue No.3, Issue Date 01.11.2019
72	CHEMICAL- PETROLEUM AND PRODUCTS	ETHANOL BULK	ETHANOL CONTENT @ 15.6/15.6°C	IS 15464, Annexture B
73	CHEMICAL- PETROLEUM AND PRODUCTS	ETHANOL BULK	Miscibility with water	IS 15464(Annex -J)
74	CHEMICAL- PETROLEUM AND PRODUCTS	ETHANOL BULK	RELATIVE DENSITY AT 15.6/15.6 0C	IS 15464, Annexture A
75	CHEMICAL- PETROLEUM AND PRODUCTS	FUEL OIL (LV1,MV1,MV2,HV,VLSFO & RMG)	DENSITY kg/m3 or g/ml	ASTM D 1298-12b
76	CHEMICAL- PETROLEUM AND PRODUCTS	FUEL OIL(LV1,MV1,MV2,HV,VLSFO & RMG)	APPERANCE	SOP 9, Issue No.3, Issue Date 01.11.2019
77	CHEMICAL- PETROLEUM AND PRODUCTS	FUEL OIL(LV1,MV1,MV2,HV,VLSFO & RMG)	COLOUR,VISUAL	SOP 11, Issue No.3, Issue Date 01.11.2019
78	CHEMICAL- PETROLEUM AND PRODUCTS	FUEL OIL(LV1,MV1,MV2,HV,VLSFO & RMG)	DENSITY kg/m3,g/m	IS:1448(P 16)
79	CHEMICAL- PETROLEUM AND PRODUCTS	FUEL OIL(LV1,MV1,MV2,HV,VLSFO & RMG)	FLASH POINT(PENSKY MARTEN)°C	ASTM D 93

SCOPE OF ACCREDITATION

Laboratory Name :	BHARAT PETROLEUM CORPORATION LTD, QA LABORATORY, IRUMPANAM, IRUMPANAM INSTALLATION, NEW OIL INSTALLATION, KOCHI, ERNAKULAM, KERALA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-7499
Page No	5 of 8
Validity	04/09/2022 to 03/09/2024
Last Amended on	31/10/2022

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
80	CHEMICAL- PETROLEUM AND PRODUCTS	FUEL OIL(LV1,MV1,MV2,HV,VLSFO & RMG)	KINEMATIC VISCOSITY @ 50°C ,Cst	ASTM D 445
81	CHEMICAL- PETROLEUM AND PRODUCTS	FUEL OIL(LV1,MV1,MV2,HV,VLSFO & RMG)	KINEMATIC VISCOSITY @ 50°C ,Cst	IS:1448(P25)
82	CHEMICAL- PETROLEUM AND PRODUCTS	FUEL OIL(LV1,MV1,MV2,HV,VLSFO & RMG)	POUR POINT °C	ASTM D 97
83	CHEMICAL- PETROLEUM AND PRODUCTS	FUEL OIL(LV1,MV1,MV2,HV,VLSFO & RMG)	POUR POINT °C	IS:1448(P 10)
84	CHEMICAL- PETROLEUM AND PRODUCTS	FUEL OIL(LV1,MV1,MV2,HV,VLSFO & RMG)	SEDIMENTS % BY MASS	ASTM D 473
85	CHEMICAL- PETROLEUM AND PRODUCTS	FUEL OIL(LV1,MV1,MV2,HV,VLSFO & RMG)	SEDIMENTS % BY MASS	IS:1448(P 30)
86	CHEMICAL- PETROLEUM AND PRODUCTS	FUEL OIL(LV1,MV1,MV2,HV,VLSFO & RMG)	SULPHUR TOTAL,% BY Weight	ASTM D 4294
87	CHEMICAL- PETROLEUM AND PRODUCTS	FUEL OIL(LV1,MV1,MV2,HV,VLSFO & RMG)	WATER CONTENT,% VOL	IS 1448(P 40)
88	CHEMICAL- PETROLEUM AND PRODUCTS	HIGH FLASH HIGH SPEED DIESEL	APPEARANCE	SOP 9, Issue No.3, Issue Date 01.11.2019
89	CHEMICAL- PETROLEUM AND PRODUCTS	HIGH FLASH HIGH SPEED DIESEL	CETANE INDEX(CALCULATED)	ASTM D 4737
90	CHEMICAL- PETROLEUM AND PRODUCTS	HIGH FLASH HIGH SPEED DIESEL	CETANE INDEX(CALCULATED)	IS:1448(P 56)
91	CHEMICAL- PETROLEUM AND PRODUCTS	HIGH FLASH HIGH SPEED DIESEL	COLOUR,VISUAL	SOP 11, Issue No.3, Issue Date 01.11.2019
92	CHEMICAL- PETROLEUM AND PRODUCTS	HIGH FLASH HIGH SPEED DIESEL	COPPER STRIP CORROSION, 3 H AT 100 °C	IS:1448(P 15)
93	CHEMICAL- PETROLEUM AND PRODUCTS	HIGH FLASH HIGH SPEED DIESEL	DENSITY kg/m3 or g/ml	ASTM D1298-12b
94	CHEMICAL- PETROLEUM AND PRODUCTS	HIGH FLASH HIGH SPEED DIESEL	DENSITY kg/m3 or g/ml	IS:1448(P 16)
95	CHEMICAL- PETROLEUM AND PRODUCTS	HIGH FLASH HIGH SPEED DIESEL	DISTILLATION(% VOLUME RECOVERED,RESIDUE)	ASTM D 86
96	CHEMICAL- PETROLEUM AND PRODUCTS	HIGH FLASH HIGH SPEED DIESEL	DISTILLATION(% VOLUME RECOVERED,RESIDUE)	IS:1448(P 18)
97	CHEMICAL- PETROLEUM AND PRODUCTS	HIGH FLASH HIGH SPEED DIESEL	DISTILLATION(BOILING RANGE °C)	ASTM D 86
98	CHEMICAL- PETROLEUM AND PRODUCTS	HIGH FLASH HIGH SPEED DIESEL	DISTILLATION(BOILING RANGE °C)	IS:1448(P18)

SCOPE OF ACCREDITATION

Laboratory Name : BHARAT PETROLEUM CORPORATION LTD, QA LABORATORY, IRUMPANAM, IRUMPANAM INSTALLATION, NEW OIL INSTALLATION, KOCHI, ERNAKULAM, KERALA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7499 **Page No** 6 of 8

Validity 04/09/2022 to 03/09/2024 **Last Amended on** 31/10/2022

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
99	CHEMICAL- PETROLEUM AND PRODUCTS	HIGH FLASH HIGH SPEED DIESEL	FLASH POINT(ABEL)°C	IP 170
100	CHEMICAL- PETROLEUM AND PRODUCTS	HIGH FLASH HIGH SPEED DIESEL	FLASH POINT(ABEL)°C	IS:1448(P 20)
101	CHEMICAL- PETROLEUM AND PRODUCTS	HIGH FLASH HIGH SPEED DIESEL	FLASH POINT(PENSKY MARTEN)°C	ASTM D 93
102	CHEMICAL- PETROLEUM AND PRODUCTS	HIGH FLASH HIGH SPEED DIESEL	FLASH POINT(PENSKY MARTEN)°C	IS:1448 (P 21)
103	CHEMICAL- PETROLEUM AND PRODUCTS	HIGH FLASH HIGH SPEED DIESEL	KINEMATIC VISCOSITY @ 40°C,cst	ASTM D 445
104	CHEMICAL- PETROLEUM AND PRODUCTS	HIGH FLASH HIGH SPEED DIESEL	KINEMATIC VISCOSITY @ 40°C,cst	ASTM D 7042
105	CHEMICAL- PETROLEUM AND PRODUCTS	HIGH FLASH HIGH SPEED DIESEL	KINEMATIC VISCOSITY @ 40°C,cst	IS:1448(P 25)
106	CHEMICAL- PETROLEUM AND PRODUCTS	HIGH FLASH HIGH SPEED DIESEL	POUR POINT	ASTM D 97
107	CHEMICAL- PETROLEUM AND PRODUCTS	HIGH FLASH HIGH SPEED DIESEL	POUR POINT °C	IS:1448(P 10)
108	CHEMICAL- PETROLEUM AND PRODUCTS	HIGH FLASH HIGH SPEED DIESEL	SULPHUR TOTAL, %	ASTM D 4294
109	CHEMICAL- PETROLEUM AND PRODUCTS	HIGH FLASH HIGH SPEED DIESEL	SULPHUR TOTAL,mg/kg	ASTM D 5453
110	CHEMICAL- PETROLEUM AND PRODUCTS	LIGHT DIESEL OIL	APPEARANCE	SOP 9, Issue No.3, Issue Date 01.11.2019
111	CHEMICAL- PETROLEUM AND PRODUCTS	LIGHT DIESEL OIL	COLOUR,VISUAL	SOP 11, Issue No.3, Issue Date 01.11.2019
112	CHEMICAL- PETROLEUM AND PRODUCTS	LIGHT DIESEL OIL	DENSITY kg/m3 or g/ml	ASTM D 1298-12b
113	CHEMICAL- PETROLEUM AND PRODUCTS	LIGHT DIESEL OIL	DENSITY kg/m3 or g/ml	IS:1448(P 16)
114	CHEMICAL- PETROLEUM AND PRODUCTS	LIGHT DIESEL OIL	FLASH POINT(PENSKY MARTEN)°C	ASTM D 93
115	CHEMICAL- PETROLEUM AND PRODUCTS	LIGHT DIESEL OIL	FLASH POINT(PENSKY MARTEN)°C	IS:1448 (P 21)
116	CHEMICAL- PETROLEUM AND PRODUCTS	LIGHT DIESEL OIL	KINEMATIC VISCOSITY @ 40°C,cst	ASTM D 445
117	CHEMICAL- PETROLEUM AND PRODUCTS	LIGHT DIESEL OIL	KINEMATIC VISCOSITY @ 40°C,cst	IS:1448 (P 25)

SCOPE OF ACCREDITATION

Laboratory Name : BHARAT PETROLEUM CORPORATION LTD, QA LABORATORY, IRUMPANAM, IRUMPANAM INSTALLATION, NEW OIL INSTALLATION, KOCHI, ERNAKULAM, KERALA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7499 **Page No** 7 of 8

Validity 04/09/2022 to 03/09/2024 **Last Amended on** 31/10/2022

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
118	CHEMICAL- PETROLEUM AND PRODUCTS	LIGHT DIESEL OIL	POUR POINT °C	ASTM D 97
119	CHEMICAL- PETROLEUM AND PRODUCTS	LIGHT DIESEL OIL	POUR POINT °C	IS:1448(P 10)
120	CHEMICAL- PETROLEUM AND PRODUCTS	LIGHT DIESEL OIL	SEDIMENTS % BY MASS	ASTM D 473
121	CHEMICAL- PETROLEUM AND PRODUCTS	LIGHT DIESEL OIL	SEDIMENTS % BY MASS	IS:1448(P 30)
122	CHEMICAL- PETROLEUM AND PRODUCTS	LIGHT DIESEL OIL	SULPHUR,TOTAL % By Weight	ASTM D 4294
123	CHEMICAL- PETROLEUM AND PRODUCTS	LIGHT DIESEL OIL	WATER CONTENT, % VOL	IS 1448(P 40)
124	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE	APPEARANCE	SOP 9, Issue No.3, Issue Date 01.11.2019
125	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE	COLOUR	SOP 11, Issue No.3, Issue Date 01.11.2019
126	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE	COPPER STRIP CORROSION	P 15
127	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE	DENSITY kg/m3 or g/ml	ASTM D 1298-12b
128	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE	DENSITY Kg/m3 or gm/ml	P 16
129	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE	DISTILLATION(% VOLUME RECOVERED,RESIDUE)	ASTM D 86
130	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE	DISTILLATION(% VOLUME RECOVERED,RESIDUE)	IS: 1448(P18)
131	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE	DISTILLATION(BOILING RANGE °C)	ASTM D 86
132	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE	DISTILLATION(BOILING RANGE °C)	IS:1448(P18)
133	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE	ETHANOL CONTENT % BY VOL	IS:2796(ANNEXURE C)
134	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE	GUM CONTENT(WASHED & UN WASHED) g/m3	IS:1448(P 29)
135	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE	RESEARCH OCTANE NUMBER	ASTM D 2699
136	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE	RESEARCH OCTANE NUMBER	IS:1448(P 27)

SCOPE OF ACCREDITATION

Laboratory Name : BHARAT PETROLEUM CORPORATION LTD, QA LABORATORY, IRUMPANAM, IRUMPANAM INSTALLATION, NEW OIL INSTALLATION, KOCHI, ERNAKULAM, KERALA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7499 **Page No** 8 of 8

Validity 04/09/2022 to 03/09/2024 **Last Amended on** 31/10/2022

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
137	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE	SULPHUR,TOTAL mg/kg	ASTM D 5453
138	CHEMICAL- PETROLEUM AND PRODUCTS	MOTOR GASOLINE	SULPHUR,TOTAL mg/kg	ISO 20847
139	CHEMICAL- PETROLEUM AND PRODUCTS	SUPERIOR KEROSINE OIL	DISTILLATION(BOILING RANGE °C)	IS:1448(P 18)
140	CHEMICAL- PETROLEUM AND PRODUCTS	SUPERIOR KEROSINE OIL	SMOKE POINT,mm	IS:1448(P 31)
141	CHEMICAL- PETROLEUM AND PRODUCTS	SUPERIOR KEROSINE OIL	SULPHUR TOTAL, % By MASS	ASTM D 4294
142	CHEMICAL- PETROLEUM AND PRODUCTS	SUPERIOR KEROSINE OIL	APPEARANCE	SOP 9, Issue No.3, Issue Date 01.11.2019
143	CHEMICAL- PETROLEUM AND PRODUCTS	SUPERIOR KEROSINE OIL	COLOUR SAYBOLT	IS:1448(P 14)
144	CHEMICAL- PETROLEUM AND PRODUCTS	SUPERIOR KEROSINE OIL	COLOUR VISUAL	SOP 11, Issue No.3, Issue Date 01.11.2019
145	CHEMICAL- PETROLEUM AND PRODUCTS	SUPERIOR KEROSINE OIL	COPPER STRIP CORROSION	IS:1448(P 15)
146	CHEMICAL- PETROLEUM AND PRODUCTS	SUPERIOR KEROSINE OIL	DENSITY kg/m3 or g/ml	ASTM D 1298-12b
147	CHEMICAL- PETROLEUM AND PRODUCTS	SUPERIOR KEROSINE OIL	DENSITY,kg/m3 or g/ml	IS:1448(P 16)
148	CHEMICAL- PETROLEUM AND PRODUCTS	SUPERIOR KEROSINE OIL	DISTILLATION(% VOLUME RECOVERED,RESIDUE)	ASTM D 86
149	CHEMICAL- PETROLEUM AND PRODUCTS	SUPERIOR KEROSINE OIL	DISTILLATION(% VOLUME RECOVERED,RESIDUE)	IS:1448(P 18)
150	CHEMICAL- PETROLEUM AND PRODUCTS	SUPERIOR KEROSINE OIL	DISTILLATION(BOILING RANGE °C)	ASTM D 86
151	CHEMICAL- PETROLEUM AND PRODUCTS	SUPERIOR KEROSINE OIL	FLASH POINT(ABEL)°C	IP 170
152	CHEMICAL- PETROLEUM AND PRODUCTS	SUPERIOR KEROSINE OIL	FLASH POINT(ABEL)°C	IS:1448(P20)
153	CHEMICAL- PETROLEUM AND PRODUCTS	SUPERIOR KEROSINE OIL	SULPHUR TOTAL, mg/kg	ASTM D 5453