National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : QUALITY ASSURANCE LABORATORY , BHARAT PETROLEUM CORPORATION LIMITED, BHARAT PETROLEUM CORPORATION LIMITED, NAVAL BASE POST, VISAKHAPATNAM, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 28/03/2023 to 27/03/2025 **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- LUBRICANTS	LUBRICATING OIL	Appearance	SOP 09- Issue No. 03 dt.01.11.2019
2	CHEMICAL- LUBRICANTS	LUBRICATING OIL	Crackle Test	SOP-10 Issue No3 Issue Dt.01.11.2019
3	CHEMICAL- LUBRICANTS	LUBRICATING OIL	Density	IS 1448(P16)
4	CHEMICAL- LUBRICANTS	LUBRICATING OIL	Flash point ,(COC)	IS 1448 Part-69 2019
5	CHEMICAL- LUBRICANTS	LUBRICATING OIL	Flash Point(PMCC)	IS 1448(P21):2019 ASTM D93-2020
6	CHEMICAL- LUBRICANTS	LUBRICATING OIL	Kinematic Viscosity @ 100 deg.C	ASTM D 7042
7	CHEMICAL- LUBRICANTS	LUBRICATING OIL	Kinematic Viscosity @ 40 deg.C	ASTM D 7042
8	CHEMICAL- LUBRICANTS	LUBRICATING OIL	Kinematic Viscosity @ 40 deg.C	IS 1448(P25)
9	CHEMICAL- LUBRICANTS	LUBRICATING OIL	Kinematic Viscosity @100 deg.C	IS 1448(P25)
10	CHEMICAL- LUBRICANTS	LUBRICATING OIL	Pour Point	IS 1448(Part-10)
11	CHEMICAL- LUBRICANTS	LUBRICATING OIL	saybolt colour	IS:1448(P-12)-2013 ASTM D: 1500-2012(2017)
12	CHEMICAL- LUBRICANTS	LUBRICATING OIL	Saybolt colour	SOP 11- Issue No. 03 dt01.11.2019
13	CHEMICAL- LUBRICANTS	LUBRICATING OIL	Viscosity Index (on calculation basis)	IS 1448(Part-56)
14	CHEMICAL- LUBRICANTS	LUBRICATING OIL	Water Content	IS 1448(P-40)
15	CHEMICAL- PETROLEUM AND PRODUCTS	Ethanol Content	Ethanol Content,% by vol.@15.6 A deg.c	IS 15464(Annexure B)
16	CHEMICAL- PETROLEUM AND PRODUCTS	Ethanol Content	MISCIBILITY WITH WATER	IS 15464(Annexure c)
17	CHEMICAL- PETROLEUM AND PRODUCTS	Ethanol Content	Realtive Density @ 15.6 A deg.C	IS 15464(Annexure C)
18	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil	Density	IS 1448(P 16)
19	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil	Kinematic Viscosity @ 50 deg.c	IS 1448(P 25):2018 SEC 1
20	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil	Sediments	IS 1448(P 30) -2013 (Reaffirmed:2018))

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21	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil/Light Diesel Oil	Auto Flash Point ,PMCC	ASTM D 93
22	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil/Light Diesel Oil	Flash Point,(PMCC -P21) deg.c	IS 1448(P21)
23	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil/Light Diesel Oil	Water Content	IS 1448(P40)
24	CHEMICAL- PETROLEUM AND PRODUCTS	Fuel Oil/Light Diesel Oil/SKO/HFHSD	Sulphur ,Total % m	ASTM D 4294
25	CHEMICAL- PETROLEUM AND PRODUCTS	HEXANE	Density@ 20 deg.C	IS1448(P:16)-2014 Reaffirmed Year:2019)
26	CHEMICAL- PETROLEUM AND PRODUCTS	High Flash High speed disel	Distillation Percentage Recovery(v/v) @ 350/370 deg.c	ASTM D86
27	CHEMICAL- PETROLEUM AND PRODUCTS	High Flash High speed Disel	Distillation Percentage Recovery(v/v) @ 350/370 deg.c	IS:1448(Part-18)
28	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Auto Flash Point(Abel)	IP 170
29	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Cetane Index,(Calculated)	ASTM D 4737
30	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Density	IS 1448(Part 16)-2014 (Reaffirmed Year:2019)
31	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Distillation (95%) v/v ,(Rec A deg.c,% vol.)	IS 1448 (P18)
32	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Distillation,Temp.(IBP/FBP deg.c)	ASTM D 86
33	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Distillation,Temp.(IBP/FBP deg.c)	IS 1448(P18)
34	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Distillation,Volume.(95% vol/v deg.c)	ASTM D 86
35	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Flash Point(PMCC),A deg.c	IS 1448(P 21)
36	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Kinematic Viscosity @ 40 A deg.C	ASTM D 7042
37	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Kinematic Viscosity @ 40 A deg.C	IS 1448(P25)
38	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Pour Point, A deg.c	IS 1448(Part- 10)
39	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Sulphur, Total	ASTM D 5453 Less Than 400 mg/kg 2019

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40	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel /Kerosene	Flash Point(Abel), A deg.c	IS 1448(P 20)
41	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel /Kerosene/HFHSD	Cu strip Corrosion	IS 1448 (Part 15)2004, Reaffirmed Year:2021
42	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene	Saybolt colour	IS1448(Part 14)
43	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene	Smoke point	IS 1448(Part 31)
44	CHEMICAL- PETROLEUM AND PRODUCTS	Light Diesel Oil	Density	IS 1448(P 16)
45	CHEMICAL- PETROLEUM AND PRODUCTS	Light Diesel Oil	Sediments	IS 1448(P 30) Reaffirmed 2018
46	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Appearance	SOP 09-Issue N0. 03 Dt. 01.11.2019
47	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Cu Strip Corrosion	IS 1448(P 15)
48	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Density	IS 1448(P16) Reaffirmed 2019 ASTMD1298-12b(2017)
49	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Distillatio,Temp A deg.c,(IBP.FBP. A deg.c)	IS 1448(P18)
50	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Distillation ,Temp A deg.(IBP.FBP A deg.c)	IS1448(P18)
51	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	DISTILLATION Percent evaporated at 100 A°C (E 100 A°C), percent v/v	ASTM D 86
52	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	DISTILLATION Percent evaporated at 100 A°C (E 100 A°C), percent v/v	IS 1448(P18)
53	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	DISTILLATION Percent evaporated at 150 A°C (E 150 A°C), percent v/v	ASTM D 86
54	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	DISTILLATION Percent evaporated at 150 A°C (E 150 A°C), percent v/v	IS 1448(P18)
55	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	DISTILLATION Percent evaporated at 70 A°C (E 70 A°C), percent v/v	ASTM D 86
56	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	DISTILLATION Percent evaporated at 70 A°C (E 70 A°C), percent v/v	IS 1448(P18)

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57	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	DISTILLATION, A°C (IBP, FBP, A°C),	ASTM D 86
58	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Distillation,(a) Temp A deg.c,(IBP,FBP A deg.c.).	ASTM D 86
59	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Distillation,Temp.(IBP/FBP A deg.c)	ASTM D 86
60	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Ethanol content	IS 2796 Annexure C)
61	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Gum Content(Solvent Washed	IS 1448(P 29)
62	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Research Octane Number(RON)	IS 1448(P27)
63	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Saybolt colour	SOP-11-issues No. 03 dt. 01.11.2019
64	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Sulphur ,Total	ASTM D 5453
65	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline/High Speed Diesel /High Flash High Speed Diesel/HEXANE/Ethanol/Kerosene/Fuel Oil/Light Diesel Oil	Appearance	SOP09- Issue No.03 dt.01.11.2019
66	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline/High Speed Diesel/Kerosene/Fuel Oil/Light Diesel Oil/Ethanol	saybolt colour	SOP 11- Issue No. 03 dt01.11.2019
67	CHEMICAL- PETROLEUM AND PRODUCTS	SKO	Total Sulphur % by Mass ASTM D5453 Greater than 400mg/kg	ASTM D5453 Greater than 400mg/kg
68	CHEMICAL- PETROLEUM AND PRODUCTS	SKO	Total Sulphur % by mass ASTM D5453 lesser than 400mg/kg	ASTM D5453