National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : QUALITY ASSURANCE LABORATORY, BHARAT PETROLEUM CORPORATION LIMITED, PARADEEP, PARADEEP COASTAL OIL INSTALLATION, P.O: ATHARABANKI RLY. COLONY, PARADIP, JAGATSINGHAPUR, ODISHA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 23/09/2022 to 22/09/2024 **Last Amended on** 18/10/2022

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	Lubricating Oil	Appearance (Visual)	SOP: 09, Issue No: 02 ; Issue date: 01.01.2020
2	CHEMICAL- LUBRICANTS	Lubricating oil	Colour (Visual)	SOP: 10, Issue No: 02 ; Issue date: 01.01.2020
3	CHEMICAL- LUBRICANTS	Lubricating Oil	Colour ASTM	ASTM D 1500
4	CHEMICAL- LUBRICANTS	Lubricating Oil	Colour ASTM	IS 1448 P:12
5	CHEMICAL- LUBRICANTS	Lubricating Oil	Density in gm/ml @ 29.5 °C	IS 1448 P:16
6	CHEMICAL- LUBRICANTS	Lubricating Oil	Flash Point (COC)	IS 1448 P:69
7	CHEMICAL- LUBRICANTS	Lubricating oil	Flash Point (PMCC)	IS 1448 P:21
8	CHEMICAL- LUBRICANTS	Lubricating oil	Kinematic Viscosity @ 100°C	ASTM D 7042
9	CHEMICAL- LUBRICANTS	Lubricating oil	Kinematic Viscosity @ 100°C	IS 1448 P:25 : Sec 1
10	CHEMICAL- LUBRICANTS	Lubricating Oil	Kinematic Viscosity @ 40°C	ASTM D 7042
11	CHEMICAL- LUBRICANTS	Lubricating oil	Kinematic Viscosity @ 40°C	IS 1448 P:25 : Sec 1
12	CHEMICAL- LUBRICANTS	Lubricating oil	Pour Point	IS 1448 P:10: Sec 2
13	CHEMICAL- LUBRICANTS	Lubricating oil	Viscosity Index	ASTM D 2270
14	CHEMICAL- LUBRICANTS	Lubricating oil	Viscosity Index	IS 1448 P:56
15	CHEMICAL- LUBRICANTS	Lubricating oil	Water Content	IS 1448 P:40
16	CHEMICAL- PETROLEUM AND PRODUCTS	Furnace Oil	Appearance (Visual)	SOP: 09, Issue No: 02; Issue date: 01.01.2020
17	CHEMICAL- PETROLEUM AND PRODUCTS	Furnace Oil	Colour (Visual)	SOP: 10, Issue No: 02 ; Issue date: 01.01.2020
18	CHEMICAL- PETROLEUM AND PRODUCTS	Furnace Oil	Density @ 15 °C	IS 1448 P:16
19	CHEMICAL- PETROLEUM AND PRODUCTS	Furnace Oil	Flash Point (PMCC)	IS 1448 P:21
20	CHEMICAL- PETROLEUM AND PRODUCTS	Furnace Oil	Kinematic Viscosity @ 50°C	IS 1448 P:25 : Sec 1
21	CHEMICAL- PETROLEUM AND PRODUCTS	Furnace Oil	Pour Point	IS 1448 P:10
22	CHEMICAL- PETROLEUM AND PRODUCTS	Furnace Oil	Sediments	IS 1448 P:30
23	CHEMICAL- PETROLEUM AND PRODUCTS	Furnace Oil	Sulphur, Total % by Mass	ASTM D 4294

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24	CHEMICAL- PETROLEUM AND PRODUCTS	Furnace Oil	Water Content % by Vol.	IS 1448 P:40
25	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Appearance (Visual)	SOP 09, Issue No:02; Issue date: 01.01.2020
26	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Cetane Index, Min. (Calculated)	ASTM D 4737
27	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Colour (Visual)	SOP 10, Issue No:02; Issue date: 01.01.2020
28	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Cu Strip Corrosion for 3 hrs. @ 50°C	IS:1448 P:15
29	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Density at 15°C	IS 1448 P:16
30	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Distillation- 95% v/v recovery	ASTM D 86
31	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Distillation- 95% v/v recovery	IS 1448 P:18:
32	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Distillation: Volume Recovery, % Vol.	ASTM D 86
33	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Distillation: Volume Recovery, % Vol.	IS 1448 P:18
34	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Flash Point (Abel) °C	IP 170
35	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Flash Point (Abel) °C	IS 1448 P:20, Method B
36	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Flash Point (PMCC)	IS 1448 P:21
37	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Kinematic Viscosity @ 40°C	ASTM D 7042
38	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Kinematic Viscosity @ 40°C	IS 1448 P:25 : Sec 1
39	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Pour Point	IS 1448 P:10 : Sec 2
40	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Sulphur, Total % by Mass	ASTM D 4294
41	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Total Sulphur	ASTM D 5453
42	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene	Appearance (Visual)	SOP 09, Issue No: 02; Issue date: 01.01.2020

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43	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene	Colour (Visual)	SOP: 10, Issue No: 02; Issue date: 01.01.2020
44	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene	Colour Saybolt	IS 1448 P:14
45	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene	Cu Strip Corrosion for 3 Hrs. @ 50 °C	IS 1448 P:15
46	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene	Density @15 °C	IS 1448 P:16
47	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene	Distillation: % Recovered below 200 °C, %V	ASTM D 86
48	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene	Distillation: % Recovered below 200 °C, %V	IS 1448 P:18
49	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene	Distillation: Final Boiling Point	ASTM D 86
50	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene	Distillation: Final Boiling Point	IS 1448 P:18
51	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene	Flash Point (Abel)	IP 170
52	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene	Flash Point (Abel)	IS 1448 P:20 (Method B)
53	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene	Smoke Point	IS 1448 P:31
54	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene	Sulphur, Total % by Mass	ASTM D 4294
55	CHEMICAL- PETROLEUM AND PRODUCTS	Kerosene	Total Sulphur	ASTM D 5453
56	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Spirit	Appearance (Visual)	SOP: 09, Issue No: 02; Issue date: 01.01.2020
57	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Spirit	Colour (Visual)	SOP: 10, Issue No: 02 ; Issue date: 01.01.2020
58	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Spirit	Cu Strip Corrosion for 3 Hrs. @ 50 °C	IS 1448 P:15
59	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Spirit	Density @ 15 °C	1S:1448 P-16
60	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Spirit	Distillation: percent evaporated at 150°C (E 150°C), percent v/v:	ASTM D 86

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61	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Spirit	Distillation: percent evaporated at 70°C (E 70°C), percent v/v:	ASTM D 86
62	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Spirit	Distillation:Final Boiling Point °C	ASTM D 86
63	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Spirit	Distillation:Final Boiling Point °C	IS 1448 P:18
64	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Spirit	Distillation:percent evaporated at 100°C (E 100°C), percent v/v:	ASTM D 86
65	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Spirit	Distillation:percent evaporated at 100°C (E 100°C), percent v/v:	IS 1448 P:18
66	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Spirit	Distillation:percent evaporated at 70°C (E 70°C), percent v/v:	IS 1448 P:18
67	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Spirit	Distillation;percent evaporated at 150°C (E 150°C), percent v/v:	IS 1448 P:18
68	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Spirit	Ethanol content % by Vol.	IS 2796 (Annex C)
69	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Spirit	Existent Gum (Solvent washed)	IS 1448 P:29
70	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Spirit	Research Octane No. (RON)	ASTM D 2699
71	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Spirit	Research Octane No. (RON)	IS:1448 P:27
72	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Spirit	Sulphur	ISO 20847
73	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Spirit	Total Sulphur	ASTM D 5453