National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BORKHEDI QA LABORATORY, BHARAT PETROLEUM CORPORATION LIMITED, BORKHEDI DEPOT, VILLAGE BORKHEDI, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-7173 **Page No** 1 of 7

Validity 11/09/2022 to 10/09/2024 **Last Amended on** 01/02/2023

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	Lubricant	Appearance	Standard Operating Procedure 09 ; Issue No3,dt.01.06.2019:Reviewed on .26.07.2022
2	CHEMICAL- LUBRICANTS	Lubricant	Crackle Test	Standard Operating Procedure 10; Issue No3,dt.01.06.2019:Reviewed on .26.07.2022
3	CHEMICAL- LUBRICANTS	Lubricant	Density	ASTM D 7042
4	CHEMICAL- LUBRICANTS	Lubricant	Density	IS 1448 (Part 16)
5	CHEMICAL- LUBRICANTS	Lubricant	Determination of Colour (ASTM scale)	ASTM D 1500
6	CHEMICAL- LUBRICANTS	Lubricant	Determination of Colour (ASTM Scale)	IS 1448 (Part 12)
7	CHEMICAL- LUBRICANTS	Lubricant	Flash Point - (COC) CLEVELAND OPEN CUP Method	IS 1448 (Part 69)
8	CHEMICAL- LUBRICANTS	Lubricant	Kinematic Viscosity @ 40 Deg c	ASTM D 7042
9	CHEMICAL- LUBRICANTS	Lubricant	Moisture Content	ASTM D 6304
10	CHEMICAL- LUBRICANTS	Lubricant	TAN-Total Acid Number	ASTM D 664
11	CHEMICAL- LUBRICANTS	Lubricant	TBN-Total Base Number	ASTM D 2896
12	CHEMICAL- LUBRICANTS	Lubricant	Viscosity Index	ASTM D 2270
13	CHEMICAL- LUBRICANTS	Lubricants	Colour (Visual)	Standard Operating Procedure 11 ; Issue No3,dt.01.06.2019:Reviewed on .26.07.2022
14	CHEMICAL- LUBRICANTS	Lubricants	Density	ASTM D 1298
15	CHEMICAL- LUBRICANTS	Lubricants	Flash Point (PMCC) PENSKY-MARTENS CLOSED CUP METHOD	IS 1448 (Part 21)
16	CHEMICAL- LUBRICANTS	Lubricants	Kinematic Viscosity @ 100 Deg C	ASTM D 7042
17	CHEMICAL- LUBRICANTS	Lubricants	Kinematic Viscosity @ 100 Deg C	IS 1448 (Part 25)
18	CHEMICAL- LUBRICANTS	Lubricants	Kinematic Viscosity @ 40 Deg C	IS 1448 (Part 25) Sec 1
19	CHEMICAL- LUBRICANTS	Lubricants	Pour Point	IS 1448 (Part 10) Sec 2

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20	CHEMICAL- LUBRICANTS	Lubricants	Viscosity Index	IS 1448 (Part 56)
21	CHEMICAL- LUBRICANTS	Lubricants	Water Content	IS 1448 (Part 40)
22	CHEMICAL- PETROLEUM AND PRODUCTS	Ethanol	Appearance	Standard Operating Procedure 09 ; Issue No3,dt.01.06.2019:Reviewed on .26.07.2022
23	CHEMICAL- PETROLEUM AND PRODUCTS	Ethanol	Ethanol Content % by vol @15.6/15.6	IS 15464 annx. B
24	CHEMICAL- PETROLEUM AND PRODUCTS	Ethanol	Ethanol/Miscibility	IS 15464 Annx. J
25	CHEMICAL- PETROLEUM AND PRODUCTS	Ethanol	Relative Density @ 15.6 Deg.c, gm/ml	IS 15464 Annx. A
26	CHEMICAL- PETROLEUM AND PRODUCTS	Furnace Oil	Colour (Visual)	Standard Operating Procedure 11 ; Issue No3,dt.01.06.2019:Reviewed on .26.07.2022
27	CHEMICAL- PETROLEUM AND PRODUCTS	Furnace Oil	Density	IS 1448 (Part 16)
28	CHEMICAL- PETROLEUM AND PRODUCTS	Furnace Oil	Flash Point-(PMCC) PENSKY-MARTENS CLOSED CUP Method	IS1448 (Part 21)
29	CHEMICAL- PETROLEUM AND PRODUCTS	Furnace Oil	Kinematic Viscosity at 50 deg C	IS 1448 (Part 25) Sec 1
30	CHEMICAL- PETROLEUM AND PRODUCTS	Furnace Oil	Total Sulphur Content	ASTM D 4294
31	CHEMICAL- PETROLEUM AND PRODUCTS	Furnace Oil	Water Content	IS 1448 (Part 40)
32	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Abel Flash Point (Manual)	IS 1448 (Part 20)
33	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Appearance	Standard Operating Procedure 09 ; Issue No3,dt.01.06.2019:Reviewed on .26.07.2022
34	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Cetane Index (Calculated Method)	ASTM D 4737
35	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Colour Visual	Standard Operating Procedure 11 ; Issue No3,dt.01.06.2019:Reviewed on .26.07.2022
36	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Copper Strip Corrosion	ASTM D 130

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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
37	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Copper Strip Corrosion	IS 1448 (Part 15)
38	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Density	ASTM D 1298
39	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Density	IS 1448 (Part 16)
40	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Distillation (Auto)-R 95 % @ Deg C	ASTM D 86
41	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Distillation (Manual)-R 95 % @ Deg C	IS 1448 (Part 18)
42	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Kinematic Viscosity @ 40 Deg C	ASTM D 7042
43	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Kinematic Viscosity @ 40 Deg C	IS 1448 (Part 25)
44	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Pour Point	ASTM D 97
45	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Pour Point	IS 1448 (Part 10) Sec 2
46	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Total Sulphur Content	ASTM D 5453
47	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Appearance	Standard Operating Procedure 09 ; Issue No3,dt.01.06.2019:Reviewed on .26.07.2022
48	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Colour(Visual)	Standard Operating Procedure 11 ; Issue No3,dt.01.06.2019:Reviewed on .26.07.2022
49	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Copper Strip Corrosion	ASTM D 130
50	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Copper Strip Corrosion	IS 1448 (Part 15)
51	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Density	ASTM D 1298
52	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Density	IS 1448 (Part 16)

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53	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Distillation (Auto);IBP Deg C(3.3 @ 38.9), %E70(2.5@23.4),%E100(1.89@ 50.4), %E150(1.5@86.9), FBP Deg C, Residue(1@1)	ASTM D 86
54	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Distillation (Manual);IBP Deg C(3.0 @ 36.2), %E70(2.3@24.1),%E100(1.9@5 7.0), %E150(1.5@86.2), FBP Deg C, Residue(1@1)	IS 1448 (Part 18)
55	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Gum Content (Solvent Washed)	IS 1448 (Part 29)
56	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Research Octane Number	ASTM D 2699
57	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Research Octane Number	IS 1448 (Part 27)
58	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Total Sulphur Content	ASTM D 5453
59	CHEMICAL- PETROLEUM AND PRODUCTS	Superior Kerosene Oil	Abel Flash Point (AUTO)	IP 170: Volume No.ICS 75.080,Page No.170.2
60	CHEMICAL- PETROLEUM AND PRODUCTS	Superior Kerosene Oil	Appearance	Standard Operating Procedure 09 ; Issue No3,dt.01.06.2019:Reviewed on .26.07.2022
61	CHEMICAL- PETROLEUM AND PRODUCTS	Superior Kerosene oil	Colour (Visual)	Standard Operating Procedure 11 ; Issue No3,dt.01.06.2019:Reviewed on .26.07.2022
62	CHEMICAL- PETROLEUM AND PRODUCTS	Superior Kerosene Oil	Density	ASTM D 1298
63	CHEMICAL- PETROLEUM AND PRODUCTS	Superior Kerosene Oil	Density	IS 1448 (Part 16)
64	CHEMICAL- PETROLEUM AND PRODUCTS	Superior Kerosene Oil	Distillation (Auto) FBP Deg.c/Rec @ 200 Dec.C(2.4@59.0)	ASTM D 86
65	CHEMICAL- PETROLEUM AND PRODUCTS	Superior Kerosene Oil	Distillation (Manual) FBP Deg.c/Rec @ 200 Dec.C(2.3@54.5)	IS 1448 (Part 18)
66	CHEMICAL- PETROLEUM AND PRODUCTS	Superior Kerosene Oil	Saybolt Colour	ASTM D 156

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67	CHEMICAL- PETROLEUM AND PRODUCTS	Superior Kerosene Oil	saybolt Colour	IS 1448 (Part 14)
68	CHEMICAL- PETROLEUM AND PRODUCTS	Superior Kerosene Oil	Smoke Point	IS 1448 (Part 31)
69	CHEMICAL- PETROLEUM AND PRODUCTS	Superior Kerosene Oil	Total Sulphur Content	ASTM D 5453

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Mobile Facility				
1	CHEMICAL- LUBRICANTS	Lubricant	Appearance	Standard Operating Procedure 09 ; Issue No3,dt.01.06.2019:Reviewed on .26.07.2022
2	CHEMICAL- LUBRICANTS	Lubricant	Crackle Test	Standard Operating Procedure 10; Issue No3,dt.01.06.2019:Reviewed on .26.07.2022
3	CHEMICAL- LUBRICANTS	Lubricant	Density	ASTM D 7042
4	CHEMICAL- LUBRICANTS	Lubricant	Density	IS 1448 (Part 16)
5	CHEMICAL- LUBRICANTS	Lubricant	Determination of Colour (ASTM scale)	ASTM D 1500
6	CHEMICAL- LUBRICANTS	Lubricant	Determination of Colour (ASTM Scale)	IS 1448 (Part 12)
7	CHEMICAL- LUBRICANTS	Lubricant	Kinematic Viscosity @ 40 Deg c	ASTM D 7042
8	CHEMICAL- LUBRICANTS	Lubricant	Moisture Content	ASTM D 6304
9	CHEMICAL- LUBRICANTS	Lubricant	TAN-Total Acid Number	ASTM D 664
10	CHEMICAL- LUBRICANTS	Lubricant	TBN-Total Base Number	ASTM D 2896
11	CHEMICAL- LUBRICANTS	Lubricant	Viscosity Index	ASTM D 2270
12	CHEMICAL- LUBRICANTS	Lubricants	Colour (Visual)	Standard Operating Procedure 11 ; Issue No3,dt.01.06.2019:Reviewed on .26.07.2022
13	CHEMICAL- LUBRICANTS	Lubricants	Density	ASTM D 1298
14	CHEMICAL- LUBRICANTS	Lubricants	Kinematic Viscosity @ 100 Deg C	ASTM D 7042
15	CHEMICAL- LUBRICANTS	Lubricants	Kinematic Viscosity @ 100 Deg C	IS 1448 (Part 25)
16	CHEMICAL- LUBRICANTS	Lubricants	Kinematic Viscosity @ 40 Deg C	IS 1448 (Part 25) Sec 1
17	CHEMICAL- LUBRICANTS	Lubricants	Viscosity Index	IS 1448 (Part 56)
18	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Abel Flash Point (Manual)	IS 1448 (Part 20)
19	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Appearance	Standard Operating Procedure 09 ; Issue No3,dt.01.06.2019:Reviewed on .26.07.2022

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20	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Colour Visual	Standard Operating Procedure 11 ; Issue No3,dt.01.06.2019:Reviewed on .26.07.2022
21	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Density	ASTM D 1298
22	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Density	IS 1448 (Part 16)
23	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Distillation (Manual)-R 95 % @ Deg C	IS 1448 (Part 18)
24	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Kinematic Viscosity @ 40 Deg C	ASTM D 7042
25	CHEMICAL- PETROLEUM AND PRODUCTS	High Speed Diesel	Kinematic Viscosity @ 40 Deg C	IS 1448 (Part 25)
26	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Appearance	Standard Operating Procedure 09 ; Issue No3,dt.01.06.2019:Reviewed on .26.07.2022
27	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Colour(Visual)	Standard Operating Procedure 11 ; Issue No3,dt.01.06.2019:Reviewed on .26.07.2022
28	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Density	ASTM D 1298
29	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Density	IS 1448 (Part 16)
30	CHEMICAL- PETROLEUM AND PRODUCTS	Motor Gasoline	Distillation (Manual);IBP Deg C(3.0 @ 36.2), %E70(2.3@24.1),%E100(1.9@57.0), %E150(1.5@86.2), FBP Deg C, Residue(1@1)	IS 1448 (Part 18)